

TEST REPORT

FCC ID: U8O-OBC5-LTE

Product: Micronet SmartHub LTE

Model No.: Micronet SmartHub

Additional Model No.: N/A

Trade Mark: Micronet

Report No.: TCT180806E039

Issued Date: Sep. 06, 2018

Issued for:

Micronet

1865 West 2100 South, Suite 2, Salt Lake City, Utah, 84119 United States

Issued By:

Shenzhen Tongce Testing Lab.

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

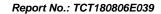




TABLE OF CONTENTS

1. Test Certification	
2. Test Result Summary	4
3. EUT Description	
4. General Information	
4.1. Test environment and mode	
4.2. Description of Support Units	6
5. Facilities and Accreditations	7
5.1. Facilities	7
5.2. Location	7
5.3. Measurement Uncertainty	7
6. Test Results and Measurement Data	8
6.1. Antenna requirement	
6.2. Conducted Emission	9
6.3. Conducted Output Power	10
6.4. Emission Bandwidth	
6.5. Power Spectral Density	16
6.6. Test Specification	16
6.7. Conducted Band Edge and Spurious Emission Measurement	
6.8. Radiated Spurious Emission Measurement	22
Appendix A: Photographs of Test Setup	
Appendix B: Photographs of EUT	



1. Test Certification

Report No.: TCT180806E039

Product:	Micronet SmartHub LTE
Model No.:	Micronet SmartHub
Additional Model No.:	N/A
Trade Mark:	Micronet
Applicant:	Micronet
Address:	1865 West 2100 South, Suite 2, Salt Lake City, Utah, 84119 United States
Manufacturer:	Micronet
Address:	1865 West 2100 South, Suite 2, Salt Lake City, Utah, 84119 United States
Date of Test:	Aug. 07, 2018 - Sep. 05, 2018
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 KDB 558074 D01 DTS Meas Guidance v04

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:	Jin Wang	Date:	Sep. 05, 2018	
Reviewed By:	Jin Wang Buy Zhan	Date:	Sep. 06, 2018	
Approved By:	Beryl Zhao Tomsin	Date:	Sep. 06, 2018	



2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	N/A
Conducted Peak Output Power	§15.247 (b)(3) §2.1046	PASS
6dB Emission Bandwidth	§15.247 (a)(2) §2.1049	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	1§5.247(d) §2.1051, §2.1057	PASS
Spurious Emission	§15.205/§15.209 §2.1053, §2.1057	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:	Micronet SmartHub LTE
Model No.:	Micronet SmartHub
Additional Model No.:	N/A
Trade Mark:	Micronet
Hardware Version:	P1
Software Version:	0.1.8.0
BT Version:	V4.0 (This report is for BLE)
Operation Frequency:	2402MHz~2480MHz
Channel Separation:	2MHz
Number of Channel:	40
Modulation Technology:	GFSK
Antenna Type:	Internal Antenna
Antenna Gain:	2.9dBi
Power Supply:	DC 12/24V

Operation Frequency each of channel

Operation	Operation Frequency each of channel						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
	(2)		()				
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	9 2420MHz 19 2440MHz 29 2460MHz 39 2480MHz						
Remark:	Remark: Channel 0, 19 & 39 have been tested.						



4. General Information

4.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%) with Fully-charged battery.

The sample was placed (0.1m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

4.2. Description of Support Units

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

Equipment	Model No.	Serial No.	FCC ID	Trade Name
1	1		1	

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.
- 3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

Page 6 of 29

Report No.: TCT180806E039

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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
9	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%

Report No.: TCT180806E039



6. Test Results and Measurement Data

6.1. Antenna requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

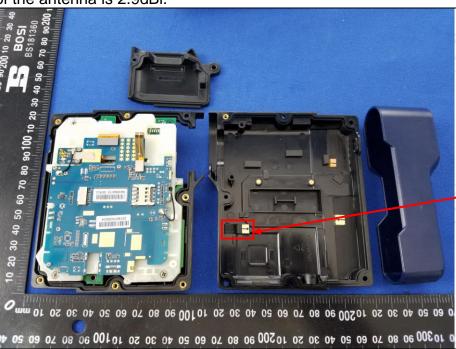
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit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

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

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

E.U.T Antenna:

The Bluetooth antenna is internal antenna which permanently attached, and the best case gain of the antenna is 2.9dBi.



Page 8 of 29

Antenna



6.2. Conducted Emission

6.2.1. Test Specification

			(.0)		
Test Requirement:	FCC Part15 C Section	FCC Part15 C Section 15.207			
Test Method:	ANSI C63.10:2013				
Frequency Range:	150 kHz to 30 MHz				
Receiver setup:	RBW=9 kHz, VBW=30	RBW=9 kHz, VBW=30 kHz, Sweep time=auto			
Limits:	Frequency range (MHz) 0.15-0.5 0.5-5 5-30	(dBuV) Average 56 to 46* 46 50			
	Refere	nce Plane	1201		
Test Setup:	Adapter E.U.T Adapter Filter AC power EMI Receiver Remark: E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m				
Test Mode:	Charging + Transmittir	ng Mode			
Test Procedure:	 The E.U.T is connected to an adapter through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. 				
Test Result:	N/A; Because the EUT item is not applicable.	Γ is powered by th	ne battery, so the		



6.3. Conducted Output Power

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)				
Test Method:	KDB558074				
Limit:	30dBm				
Test Setup:	Spectrum Analyzer EUT				
Test Mode:	Refer to item 4.1				
Test Procedure:	 The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04. Set spectrum analyzer as following: a) Set the RBW ≥ DTS bandwidth. b) Set VBW ≥ 3 x RBW. c) Set span ≥ 3 x RBW d) Sweep time = auto couple. e) Detector = peak. f) Trace mode = max hold. g) Allow trace to fully stabilize. h) Use peak marker function to determine the peak amplitude level. 				
Test Result:	PASS				

6.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Sep. 27, 2018
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018
Antenna Connector	TCT	RFC-01	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).

Page 10 of 29



6.3.3. Test Data

BT LE mode			
Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result
Lowest	-7.66	30.00	PASS
Middle	-4.84	30.00	PASS
Highest	-6.69	30.00	PASS

Test plots as follows:

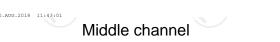


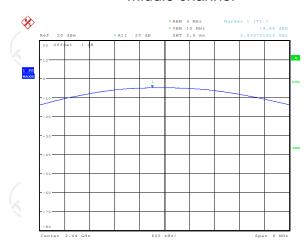


BT LE mode

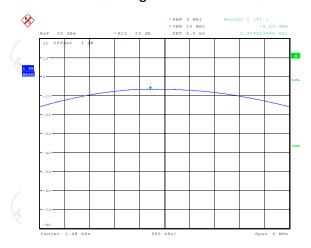
Lowest channel







Highest channel



Date: 10.AUG.2018 11:44:34



6.4. Emission Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB558074
Limit:	>500kHz
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Refer to item 4.1
Test Procedure:	 The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v04. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report.
Test Result:	PASS

6.4.2. Test Instruments

RF Test Room							
Equipment	Calibration Due						
Spectrum Analyzer	R&S	FSU	200054	Sep. 27, 2018			
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018			
Antenna Connector	TCT	RFC-01	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).

Page 13 of 29



6.4.3. Test data

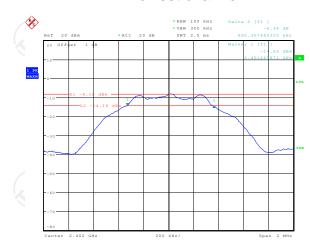
Test channel	6dB Emission Bandwidth (kHz)				
rest channel	BT LE mode	Limit	Result		
Lowest	692.31	>500k	0		
Middle	692.31	>500k	PASS		
Highest	689.10	>500k			

Test plo	ots as follow	rs:			

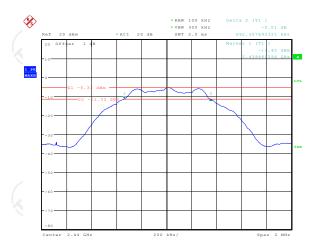


BT LE mode

Lowest channel







Highest channel



Date: 10.AUG.2018 11:41:23



6.5. Power Spectral Density

6.6. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB558074
Limit:	The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test Setup:	EUT.
	Spectrum Analyzer
Test Mode:	Refer to item 4.1
Test Procedure:	 The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW) Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report.
Test Result:	PASS
Test Result:	PASS

6.6.1. Test Instruments

RF Test Room							
Equipment Manufacturer Model Serial Number Calibration De							
Spectrum Analyzer	R&S	FSU	200054	Sep. 27, 2018			
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018			
Antenna Connector	тст	RFC-01	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).



6.6.2. Test data

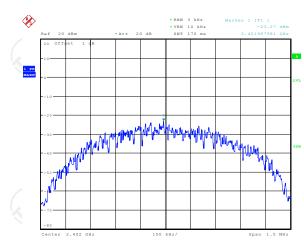
Toot channal	Power Spectral Density (dBm/3kHz)				
Test channel	BT LE mode	Limit	Result		
Lowest	-23.27	8 dBm/3kHz	100		
Middle	-20.49	8 dBm/3kHz	PASS		
Highest	-22.25	8 dBm/3kHz	(3)		

Test plots as follows:

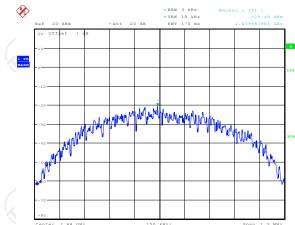




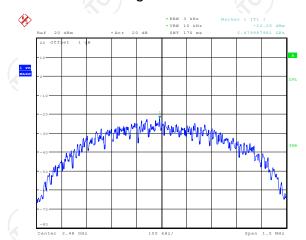
Lowest channel







Pate: 10.AUG.2018 11:47:24 Highest channel



Date: 10.AUG.2018 11:48:16



6.7. Conducted Band Edge and Spurious Emission Measurement

6.7.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	KDB558074				
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).				
Test Setup:	Spectrum Analyzer EUT				
Test Mode:	Refer to item 4.1				
Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band. 				
Test Result:	PASS				

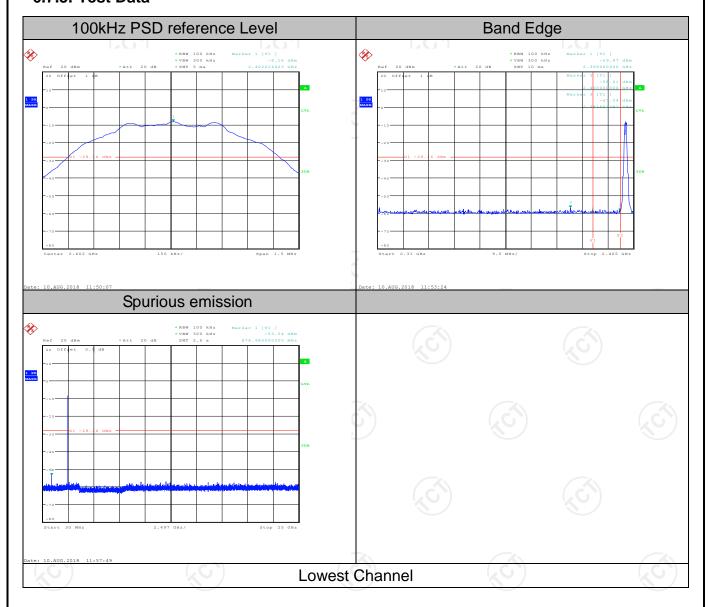


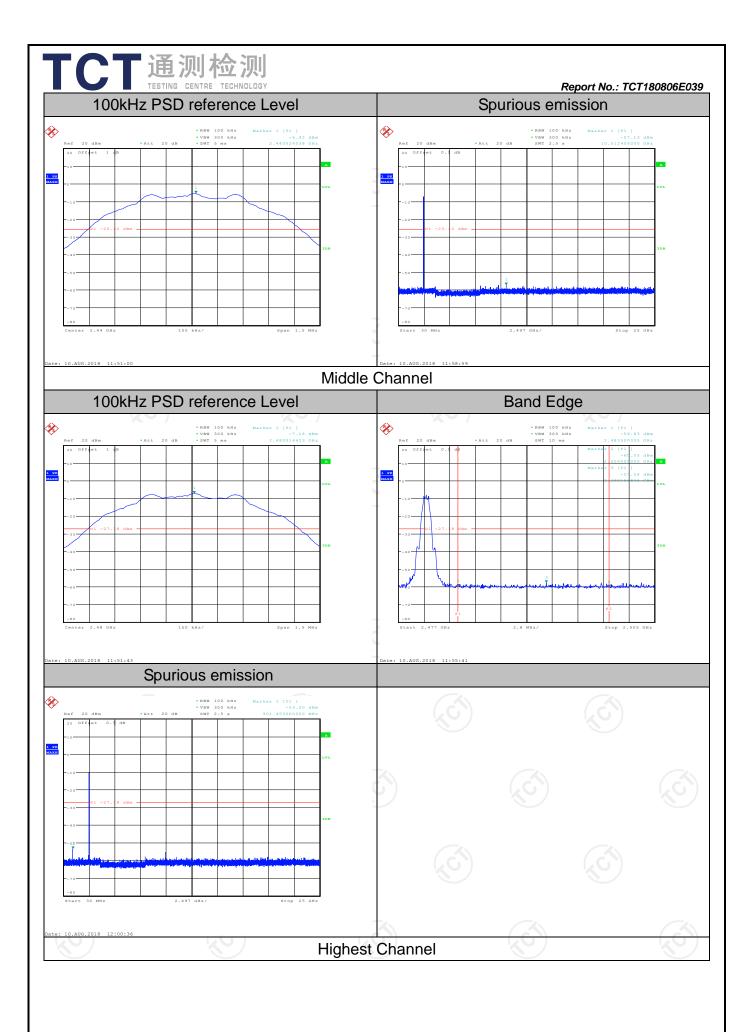
6.7.2. Test Instruments

RF Test Room							
Equipment Manufacturer Model Serial Number Calibration							
Spectrum Analyzer	R&S	FSU	200054	Sep. 27, 2018			
RF cable (9kHz-26.5GHz)	ТСТ	RE-06	N/A	Sep. 27, 2018			
Antenna Connector	TCT	RFC-01	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).

6.7.3. Test Data



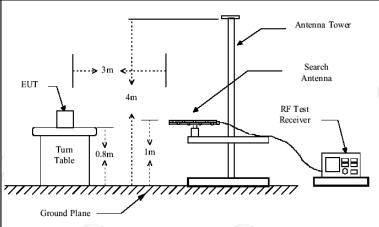




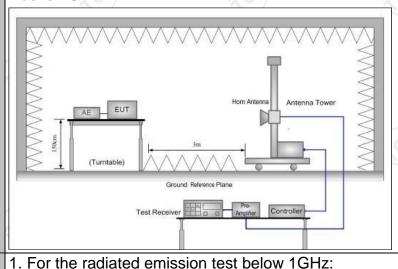
6.8. Radiated Spurious Emission Measurement

6.8.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209							
Test Method:	ANSI C63.10: 2013							
Frequency Range:	9 kHz to 25 GHz							
Measurement Distance:	3 m							
Antenna Polarization:	Horizontal & Vertical							
Operation mode:	Refer to item 4.1							
	Frequency 9kHz- 150kHz	Detector Quasi-pea		RBW 00Hz	VBW 1kHz	+	Remark i-peak Value	
Receiver Setup:	150kHz- 30MHz	Quasi-pea		9kHz	30kHz		i-peak Value	
•	30MHz-1GHz	Quasi-pea	k 10	00KHz	300KHz	Quas	i-peak Value	
	Above 1GHz	Peak		MHz	3MHz		eak Value	
	1,0070 10112	Peak	1	MHz	10Hz	Ave	rage Value	
	Frequency		Field Strength (microvolts/meter)		Measurement Distance (meters)			
	0.009-0.490		2400/F(KHz)			300		
	0.490-1.705		24000/F(KHz)		30			
	1.705-30		30		30			
	30-88 88-216		100 150		3			
Limit:	216-960		200		3			
Ziiiit.	Above 960		500			3		
	7.5000		(<u>k</u> C)			(,C		
	II Freduency I		Field Strength icrovolts/meter)		Measurement Distance (meters)		Detector	
	Above 1GHz		500		3		Average	
		7	5000		3		Peak	
	For radiated emissions below 30MHz							
	Distance = 3m Computer							
	Pre -Amplifier							
Test setup:	Turn table Receiver							
		Г	Ground P	lane	\neg			
	30MHz to 10							



Above 1GHz



above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune

The EUT was placed on a turntable with 0.8 meter

the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level.

For the radiated emission test above 1GHz:
Place the measurement antenna on a turntable with

1.5 meter above ground, which is 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

Test Procedure:

TESTING CENTRE TECHNOLOGY	Report No.: TCT180806E03
	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. 2. Corrected Reading: Antenna Factor + Cable Loss +
	Read Level - Preamp Factor = Level 3. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak
	detector and reported. 4. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured;
	 (2) Set RBW=100 kHz for f < 1 GHz; VBW RBW; Sweep = auto; Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for f □ 1 GHz for peak measurement.
	For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Test mode:	Refer to section 4.1 for details
Test results:	PASS (C)

个工语测检测





6.8.2. Test Instruments

	Radiated Em	ission Test Si	te (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Sep. 27, 2018
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ	200061	Sep. 27, 2018
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 27, 2018
Pre-amplifier	HP	8447D	2727A05017	Sep. 27, 2018
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 27, 2018
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 27, 2018
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 27, 2018
Horn Antenna	Schwarzbeck	BBH 9170	582	Sep. 27, 2018
Antenna Mast	Keleto	CC-A-4M	N/A	N/A
Coax cable (9KHz-1GHz)	тст	RE-low-01	N/A	Sep. 27, 2018
Coax cable (9KHz-40GHz)	тст	RE-high-02	N/A	Sep. 27, 2018
Coax cable (9KHz-1GHz)	тст	RE-low-03	N/A	Sep. 27, 2018
Coax cable (9KHz-40GHz)	тст	RE-high-04	N/A	Sep. 27, 2018
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

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

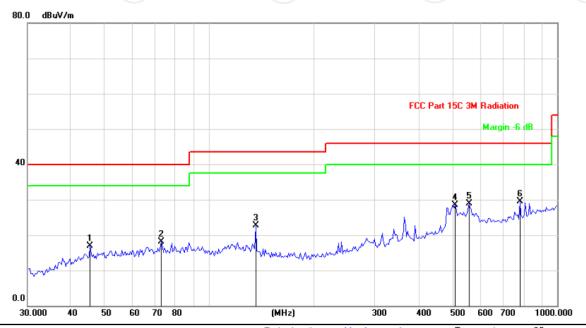


6.8.3. Test Data

Please refer to following diagram for individual

Below 1GHz

Horizontal:



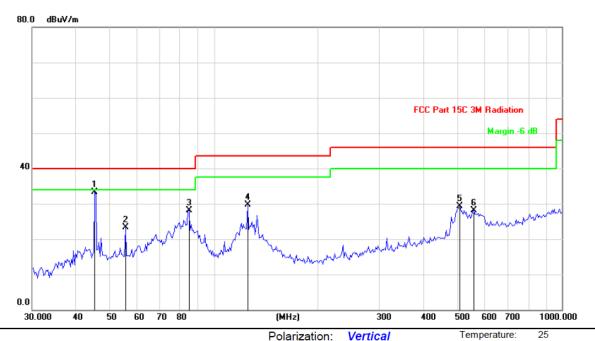
Site Polarization: Horizontal Temperature: 25
Limit: FCC Part 15C 3M Radiation Power: DC 24V Humidity: 55 %

	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
_			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
_	1		45.4130	29.83	-12.98	16.85	40.00	-23.15	peak			
_	2		72.7203	35.75	-17.56	18.19	40.00	-21.81	peak			
_	3		135.9163	39.78	-17.00	22.78	43.50	-20.72	peak			
_	4	į	509.3559	35.12	-6.62	28.50	46.00	-17.50	peak			
_	5	į	558.0788	34.60	-5.69	28.91	46.00	-17.09	peak			
_	6	*	781.9606	33.05	-3.60	29.45	46.00	-16.55	peak			





Vertical:



Limit: FCC Part 15C 3M Radiation Power: DC 24V Humidity: 55 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1	*	45.4130	46.27	-12.98	33.29	40.00	-6.71	peak			
2		55.6782	36.76	-13.40	23.36	40.00	-16.64	peak			
3		84.8783	44.07	-15.99	28.08	40.00	-11.92	peak			
4		124.9249	45.74	-15.97	29.77	43.50	-13.73	peak			
5	;	509.3559	35.95	-6.62	29.33	46.00	-16.67	peak			
6	,	558.0788	33.88	-5.69	28.19	46.00	-17.81	peak			

Note: 1.The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

2. Measurements were conducted in all three channels (high, middle, low), and the worst case Mode (Middle channel) was submitted only.





Above 1GHz

Low channel: 2402 MHz											
Frequency	Ant Pol	Peak	AV	Correction	Emissio	n Level	Peak limit	AV limit (dBµV/m)	Margin		
(MHz)	H/V	reading (dBµV)	reading (dBuV)	Factor (dB/m)	Peak (dBµV/m)	AV			(dB)		
2390	Н	46.41		-8.27	38.14		74	54	-15.86		
4804	Н	41.75		0.66	42.41		74	54	-11.59		
7206	Н	35.29		9.50	44.79		74	54	-9.21		
	H						-	 ,			
			(.6)			\mathcal{C}		(C_{i})			
2390	V	45.17	-	-8.27	36.90		74	54	-17.10		
4804	V	42.54		0.66	43.20		74	54	-10.80		
7206	V	34.83		9.50	44.33		74	54	-9.67		
	V	(K)			X		7				

					_ /				
Middle cha	nnel: 2440)MHz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)			Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4880	(CH)	41.62	- 	0.99	42.61	C 7-	74	54	-11.39
7320	4	36.37		9.87	46.24	<u></u>	74	54	-7.76
	Н								
	I					r		, ,	
4880	V	40.18		0.99	41.17		74	54	-12.83
7320	V	35.06		9.87	44.93		74	54	-9.07
	V								

High chann	nel: 2480 N	ЛHz		٠.					
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Peak	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
2483.5	Н	46.65		-7.83	38.82		74	54	-15.18
4960	Н	40.89		1.33	42.22		74	54	-11.78
7440	Н	34.43		10.22	44.65		74	54	-9.35
)	Н	\(\frac{1}{2}\)) 		\\\\		
2483.5	V	48.71		-7.83	40.88		74	54	-13.12
4960	V	41.94		1.33	43.27		74	54	-10.73
7440	.CV	34.27	- (-, C	10.22	44.49	(C)	74	54	-9.51
	V			/				77	

Note:

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

Page 28 of 29



Appendix A: Photographs of Test Setup

Refer to test report TCT180806E022

Appendix B: Photographs of EUT

Refer to test report TCT180806E022

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

