Shenzhen Huatongwei International Inspection Co., Ltd.



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FCC REPORT

Report Reference No.....: CHTEW20070207 Report verification:

Project No.:: SHT2005099304EW

FCC ID.....:: 2ANY6-TE580PD

Applicant's name.....: Telo Systems Ltd.

Address..... 6/F, No. 42 Liuxian 1st Road, Bao'an District, Shenzhen, China

Manufacturer.....: Telo Systems Ltd.

6/F, No. 42 Liuxian 1st Road, Bao'an District, Shenzhen, China Address....:

Test item description: **Smart Phone**

Trade Mark: Telo Systems

Model/Type reference....: TE580PD

Listed Model(s):

FCC CFR Title 47 Part 2 Standard::

> FCC CFR Title 47 Part 22 FCC CFR Title 47 Part 24

FCC CFR Title 47 Part 27

Date of receipt of test sample.....: Jun. 29, 2020

Date of testing.....: Jun. 30, 2020- Jul. 22, 2020

Date of issue..... Jul. 23, 2020

Result....: **Pass**

Compiled by

File administrators Silvia Li (position+printedname+signature)...:

Supervised by

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Approved by

(position+printedname+signature)....: Manager Hans Hu

Testing Laboratory Name: Shenzhen Huatongwei International Inspection Co., Ltd.

1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Address.....

Tianliao, Gongming, Shenzhen, China

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The test report merely correspond to the test sample.

Page: 1 of 25

Report No.: CHTEW20070207 Page: 2 of 25 Issued: 2020-07-23

Contents

<u>1.</u>	TEST STANDARDS AND REPORT VERSION	3
1.1.	Applicable Standards	3
1.2.	Report version information	3
<u>2.</u>	TEST DESCRIPTION	4
<u>3.</u>	SUMMARY	5
3.1.	Client Information	5
3.2.	Product Description	5
3.3.	Operation state	6
3.4.	EUT configuration	6
3.5.	Modifications	6
<u>4.</u>	TEST ENVIRONMENT	7
		
4.1.	Address of the test laboratory	7
4.2.	Test Facility	7
4.3.	Equipments Used during the Test	8
4.4.	Environmental conditions	9
4.5.	Statement of the measurement uncertainty	9
<u>5.</u>	TEST CONDITIONS AND RESULTS	10
5.1.	Conducted Output Power	10
5.2.	Peak-Average Ratio	11
5.3.	99% Occupied Bandwidth & 26 dB Bandwidth	12
5.4.	Band Edge	13
5.5.	Conducted Spurious Emissions	14
5.6.	Frequency stability VS Temperature measurement	15
5.7.	Frequency stability VS Voltage measurement	16
5.8.	ERP and EIRP	17
5.9.	Radiated Spurious Emission	20
<u>6.</u>	TEST SETUP PHOTOS OF THE EUT	25
7 <u>.</u>	EXTERNAL AND INTERNAL PHOTOS OF THE EUT	25
<u>8.</u>	APPENDIX REPORT	25

Report No.: CHTEW20070207 Page: 3 of 25 Issued: 2020-07-23

1. TEST STANDARDS AND REPORT VERSION

1.1. Applicable Standards

The tests were performed according to following standards:

FCC Rules Part 2: FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS

FCC Rules Part 22: PUBLIC MOBILE SERVICES

FCC Rules Part 24: PERSONAL COMMUNICATIONS SERVICES

FCC Rules Part 27: MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES

<u>TIA/EIA 603 E March 2016:</u>Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

ANSI C63.26: 2015: American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

KDB 971168 D01 Power Meas License Digital Systems v03: MEASUREMENT GUIDANCE FOR CERTIFICATION OF LICENSED DIGITAL TRANSMITTERS

1.2. Report version information

Revision No.	Date of issue	Description
N/A	2020-07-23	Original

Report No.: CHTEW20070207 Page: 4 of 25 Issued: 2020-07-23

2. Test Description

Test Item	Section in CFR 47	Result	Test Engineer
Conducted Output Power	Part 2.1046 Part 22.913(a) Part 24.232(c) Part 27.50	Pass	Jiongsheng Feng
Peak-to-Average Ratio	Part 24.232 Part 27.50	Pass	Jiongsheng Feng
99% Occupied Bandwidth & 26 dB Bandwidth	Part 2.1049 Part 22.917(b) Part 24.238(b) Part 27.53	Pass	Jiongsheng Feng
Band Edge	Part 2.1051 Part 22.917 Part 24.238 Part 27.53	Pass	Jiongsheng Feng
Conducted Spurious Emissions	Part 2.1051 Part 22.917 Part 24.238 Part 27.53	Pass	Jiongsheng Feng
Frequency stability vs temperature	Part 2.1055(a)(1)(b) Part 22.355 Part 24.235 Part 27.54	Pass	Jiongsheng Feng
Frequency stability vs voltage	Part 2.1055(d)(1)(2) Part 22.355 Part 24.235 Part 27.54	Pass	Jiongsheng Feng
ERP and EIRP	Part 22.913(a) Part 24.232(b) Part 27.50	Pass	Pan Xie
Radiated Spurious Emissions	Part 2.1053 Part 22.917 Part 24.238 Part 27.53	Pass	Pan Xie

Note: The measurement uncertainty is not included in the test result.

Report No.: CHTEW20070207 Page: 5 of 25 Issued: 2020-07-23

3. **SUMMARY**

3.1. Client Information

Applicant:	Telo Systems Ltd.	
Address:	6/F, No. 42 Liuxian 1st Road, Bao'an District, Shenzhen, China	
Manufacturer:	Telo Systems Ltd.	
Address:	6/F, No. 42 Liuxian 1st Road, Bao'an District, Shenzhen, China	

3.2. Product Description

Name of EUT:	Smart Phone		
Trade Mark:	Telo Systems		
Model No.:	TE580PD		
Listed Model(s):	-		
SIM Information:	Support One SIM Card		
Power supply:	DC 3.8V		
Adapter information:	Manufacturer: Shen Zhen Mao Two Power Co., Ltd Model:MR-0502000US Input: AC100-240V, 50/60Hz, 0.3A Output: 5.0Vdc,2.0A		
Hardware version:	D931_MB_V2.0_20190519		
Software version:	TE580PD_US_V4P_20200617		
3G:			
Operation Band:	FDD Band II, FDD Band IV , FDD Band V		
Power Class:	Class 3		
Modulation Type:	QPSK		
Transmit frequency:	FDD Band II: 1852.40MHz~1907.60MHz FDD Band IV: 1712.40MHz~1752.60MHz FDD Band V: 826.40MHz~846.60MHz		
Receive frequency:	FDD Band II: 1932.40MHz~1987.60MHz FDD Band IV: 2112.40MHz~2152.60MHz FDD Band V: 871.40MHz~891.60MHz		
Antenna type:	FPC Antenna		
Antenna gain:	Band II: 1.30dBi, Band IV: 1.20dBi, Band V: 1.60dBi		

Report No.: CHTEW20070207 Page: 6 of 25 Issued: 2020-07-23

3.3. Operation state

> Test frequency list

FDD Band II		FDD	Band IV	FDD Band V		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
9262	1852.40	1312	1712.40	4132	826.40	
9400	1880.00	1413	1732.60	4183	836.60	
9538	1907.60	1513	1752.60	4233	846.60	

> Test mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03 and ANSI C63.26-2015 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

30 MHz to 10th harmonic for FDD Band II, Band IV, Band V.

All modes and data rates and positions were investigated.

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

	Test modes					
Band	Radiated	Conducted				
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link				
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link				
WCDMA Band IV	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link				

3.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- supplied by the manufacturer
- supplied by the lab

	/	Manufacturer:	/
O	1	Model No.:	/
	1	Manufacturer:	1
		Model No.:	/

3.5. Modifications

No modifications were implemented to meet testing criteria.

Report No.: CHTEW20070207 Page: 7 of 25 Issued: 2020-07-23

4. TEST ENVIRONMENT

4.1. Address of the test laboratory

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd.

Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China.

4.2. Test Facility

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 3902.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 762235

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files.

IC-Registration No.:5377A

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No.: 5377A.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

Report No.: CHTEW20070207 Page: 8 of 25 Issued: 2020-07-23

4.3. Equipments Used during the Test

Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Signal and spectrum Analyzer	R&S	HTWE0242	FSV40	100048	2019/10/26	2020/10/25
•	Spectrum Analyzer	Agilent	HTWE0286	N9020A	MY50510187	2019/10/26	2020/10/25
•	Radio communication tester	R&S	HTWE0287	CMW500	137688-Lv	2019/10/26	2020/10/25
•	Test software	Tonscend	N/A	JS1120	N/A	N/A	N/A

•	Radiated Spu	rious Emission					
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Semi-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	N/A	2018/09/27	2021/09/26
•	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2019/10/26	2020/10/25
•	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2018/04/02	2021/04/01
•	Broadband Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2018/10/11	2021/10/11
•	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0123	VULB9163	538	2018/04/04	2021/04/03
•	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2020/04/01	2023/03/31
•	Pre-amplifier	CD	HTWE0071	PAP-0102	12004	2019/11/14	2020/11/13
•	Broadband Preamplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2020/05/23	2021/05/22
•	RF Connection Cable	HUBER+SUHNER	HTWE0120- 01	6m 18GHz S Serisa	N/A	2020/05/10	2021/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0120- 02	6m 3GHz RG Serisa	N/A	2020/05/10	2021/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0120- 03	6m 3GHz RG Serisa	N/A	2020/05/10	2021/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0120- 04	6m 3GHz RG Serisa	N/A	2020/05/10	2021/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0121- 01	6m 18GHz S Serisa	N/A	2020/05/10	2021/05/09
•	EMI Test Software	Audix	N/A	E3	N/A	N/A	N/A

•	Auxiliary Equi	pment					
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Climate chamber	ESPEC	HTWE0254	GPL-2	N/A	2019/10/23	2020/10/22
•	DC Power Supply	Gwinstek	HTWE0274	SPS-2415	GER835793	N/A	N/A

Report No.: CHTEW20070207 Page: 9 of 25 Issued: 2020-07-23

4.4. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

	VN=Nominal Voltage	DC 3.80V	
Voltage	VL=Lower Voltage	DC 3.60V	
	VH=Higher Voltage	DC 4.35V	
Tomporoturo	TN=Normal Temperature	25 °C	
Temperature	Extreme Temperature From -30° to + 50° centigrade		
Humidity	30~60 %		
Air Pressure	950-1050 hPa		

4.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01"Electromagnetic compatibilityand Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics;Part 1"and TR-100028-02 "Electromagnetic compatibilityand Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics;Part 2 " and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

Test Items	Measurement Uncertainty	Notes	
Transmitter power conducted	0.51 dB	(1)	
Transmitter power Radiated	2.66dB for <1GHz 3.44dB for >1GHz	(1)	
Conducted spurious emissions 9kHz~40GHz	0.51 dB	(1)	
Radiated spurious emissions	2.66dB for <1GHz	(1)	
rtadiated oparious similations	3.44dB for >1GHz	(1)	
Occupied Pandwidth	15Hz for <1GHz	(1)	
Occupied Bandwidth	70Hz for >1GHz	(1)	
Eroguenov orror	15Hz for <1GHz	(1)	
Frequency error	70Hz for >1GHz	(1)	

⁽¹⁾ This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

Report No.: CHTEW20070207 Page: 10 of 25 Issued: 2020-07-23

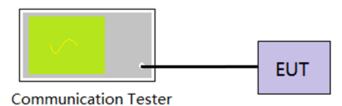
5. TEST CONDITIONS AND RESULTS

5.1. Conducted Output Power

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT output port was connected to communication tester.
- 2. Set EUT at maximum power through communication tester.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Measure the maximum burst average power.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Refer to appendix A on the section 8 appendix report

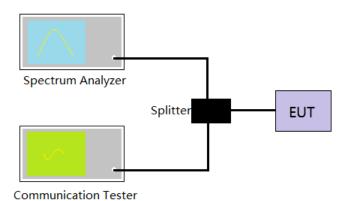
Report No.: CHTEW20070207 Page: 11 of 25 Issued: 2020-07-23

5.2. Peak-Average Ratio

LIMIT

13dB

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- 2. Set EUT in maximum power output.
- 3. Center Frequency = Carrier frequency, RBW > Emission bandwidth of signal
- 4. The signal analyzer was set to collect one million samples to generate the CCDF curve
- 5. The measurement interval was set depending on the type of signal analyzed.
 - i. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms.
 - ii. For bursttransmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that issynced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in whichthetransmitter is operating at maximum power
- 6. Record the maximum PAPR level associated with a probability of 0.1%.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

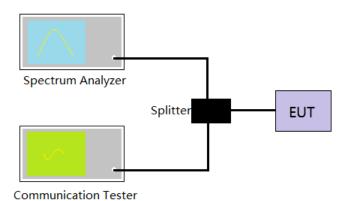
Refer to appendix B on the section 8 appendix report

Report No.: CHTEW20070207 Page: 12 of 25 Issued: 2020-07-23

5.3. 99% Occupied Bandwidth & 26 dB Bandwidth

LIMIT N/A

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- 2. Set EUT in maximum power output.
- 3. Spectrum analyzer setting as follow:

Center Frequency= Carrier frequency, RBW=1% to 5% of anticipated OBW, VBW= 3 * RBW, Detector=Peak,

Trace maximum hold.

4. Record the value of 99% Occupied bandwidth and -26dB bandwidth.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Refer to appendix C on the section 8 appendix report

Report No.: CHTEW20070207 Page: 13 of 25 Issued: 2020-07-23

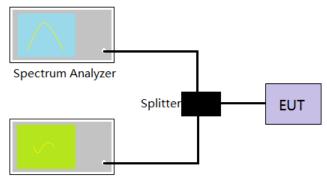
5.4. Band Edge

LIMIT

Part 24.238 and Part 22.917 and Part 27.53 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

TEST CONFIGURATION



Communication Tester

TEST PROCEDURE

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- 2. Set EUT in maximum power output.
- 3. The band edges of low and high channels were measured.
- Spectrum analyzer setting as follow:
 RBW=100KHz, VBW = 300KHz, Sweep time= Auto
- 5. Record the test plot.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Refer to appendix D on the section 8 appendix report

Report No.: CHTEW20070207 Page: 14 of 25 Issued: 2020-07-23

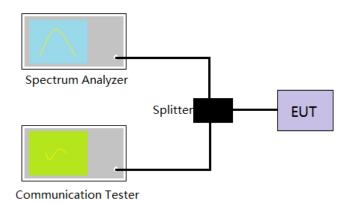
5.5. Conducted Spurious Emissions

LIMIT

Part 24.238 and Part 22.917 and Part 27.53 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- 2. Set EUT in maximum power output.
- 3. Spectrum analyzer setting as follow:

Below 1GHz, RBW=100KHz, VBW = 300KHz, Detector=Peak, Sweep time= Auto Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peak, Sweep time= Auto Scan frequency range up to 10th harmonic.

4. Record the test plot.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Refer to appendix E on the section 8 appendix report

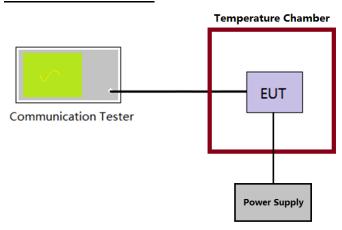
Report No.: CHTEW20070207 Page: 15 of 25 Issued: 2020-07-23

5.6. Frequency stability VS Temperature measurement

LIMIT

2.5ppm

TEST CONFIGURATION



TEST PROCEDURE

- 1. The equipment under test was connected to an external DC power supply and input rated voltage.
- 2. The EUT output port was connected to communication tester.
- 3. The EUT was placed inside the temperature chamber.
- 4. Turn EUT off and set the chamber temperature to −30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.
- 5. Repeat step 4 measure with 10°C increased per stage until the highest temperature of +50°C reached.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Refer to appendix F on the section 8 appendix report

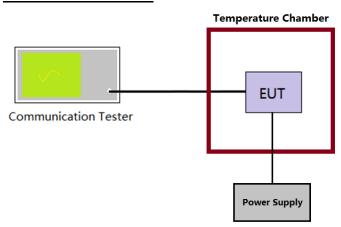
Report No.: CHTEW20070207 Page: 16 of 25 Issued: 2020-07-23

5.7. Frequency stability VS Voltage measurement

LIMIT

2.5ppm

TEST CONFIGURATION



TEST PROCEDURE

- 1. The equipment under test was connected to an external DC power supply and input rated voltage.
- 2. The EUT output port was connected to communication tester.
- 3. The EUT was placed inside the temperature chamber at 25°C
- 4. The power supply voltage to the EUT was varied ±15% of the nominal value measured at the input to the EUT
- 5. Record the maximum frequency change.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Refer to appendix F on the section 8 appendix report

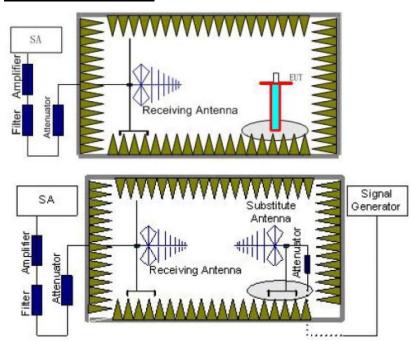
Report No.: CHTEW20070207 Page: 17 of 25 Issued: 2020-07-23

5.8. ERP and EIRP

LIMIT

WCDMA Band V: 7W (38.45dBm) ERP WCDMA Band II: 2W (33dBm) EIRP WCDMA Band IV: 1W (30dBm) EIRP

TEST CONFIGURATION



TEST PROCEDURE

- 1. Place the EUT in the center of the turntable.
 - a) For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table at a nominal height of 80 cm above the reference ground plane
 - b) For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table at a nominal height of 1.5 m above the ground plane.
- 2. Unless the EUT uses an integral antenna, the EUT shall be terminated with a non-radiating transmitter load. In cases where the EUT uses an adjustable antenna, the antenna shall be adjusted through typical positions and lengths to maximize emissions levels.
- 3. The EUT shall be tested while operating on the frequency per manufacturer specification. Set the transmitter to operate in continuous transmit mode.
- 4. Receiver or Spectrum set as follow:
 - Below 1GHz, RBW=100kHz, VBW=300kHz, Detector=Peak, Sweep time=Auto Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peck, Sweep time=Auto
- 5. Each emission under consideration shall be evaluated:
 - a) Raise and lower the measurement antenna from 1 m to 4 m, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.
 - b) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.
 - c) Return the turntable to the azimuth where the highest emission amplitude level was observed.
 - d) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.
 - e) Record the measured emission amplitude level and frequency
- 6. Repeat step 5 for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.
- 7. Set-up the substitution measurement with the reference point of the substitution antenna located as near as possible to where the center of the EUT radiating element was located during the initial EUT measurement.
- 8. Maintain the previous measurement instrument settings and test set-up, with the exception that the EUT is removed and replaced by the substitution antenna.

Report No.: CHTEW20070207 Page: 18 of 25 Issued: 2020-07-23

9. Connect a signal generator to the substitution antenna; locate the signal generator so as to minimize any potential influences on the measurement results. Set the signal generator to the frequency where emissions are detected, and set an output power level such that the radiated signal can be detected by the measurement instrument, with sufficient dynamic range relative to the noise floor.

- 10. For each emission that was detected and measured in the initial test
 - a) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude.
 - b) Adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the amplitude level of the emission previously measured directly in step 5 and step 6.
 - c) Record the output power level of the signal generator when equivalence is achieved in step b).
- 11. Repeat step 8 through step 10 with the measurement antenna oriented in the opposite polarization.
- 12. Calculate the emission power in dBm referenced to a half-wave dipole using the following equation: Pe = Ps(dBm) cable loss (dB) + antenna gain (dBd) where

Pe = equivalent emission power in dBm

Ps = source (signal generator) power in dBm

NOTE—dBd refers to the measured antenna gain in decibels relative to a half-wave dipole.

13. Correct the antenna gain of the substitution antenna if necessary to reference the emission power to a half-wave dipole. When using measurement antennas with the gain specified in dBi, the equivalent dipole-referenced gain can be determined from: gain (dBd) = gain (dBi) - 2.15 dB.

If necessary, the antenna gain can be calculated from calibrated antenna factor information

14. Provide the complete measurement results as a part of the test report.

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Please refer to the clause 3.3

TEST RESULTS

□ Passed	■ Not Applicable

Report No.: CHTEW20070207 Page: 19 of 25 Issued: 2020-07-23

Mode	Channel	Antenna Pol.	EIRP	Limit (dBm)	Result		
	0262	V	15.66				
	9262 9400 9538	Н	18.79				
WCDMA Band II		V	15.57	-33.00	Pass		
WCDIVIA Ballu II		9400	9400	Н	19.26	<33.00	Pa55
		V	15.57				
		Н	19.47				

Mode	Channel	Antenna Pol.	EIRP	Limit (dBm)	Result	
	1312	V	16.26			
	1312	Н	19.56			
WCDMA Band IV	1413 1513	V	15.32	<30.00	Pass	
WCDIVIA Ballu IV		1415	Н	19.64	<30.00	F 455
		V	15.19			
		Н	18.67			

Mode	Channel	Antenna Pol.	ERP	Limit (dBm)	Result		
	4422	V	17.25				
	4132 4183 4233	Н	4.89				
WCDMA Band V		4183	V	17.11	-20 45	Door	
WCDIVIA Band V			4103	4103	Н	4.30	<38.45
		V	17.38				
		Н	4.71				

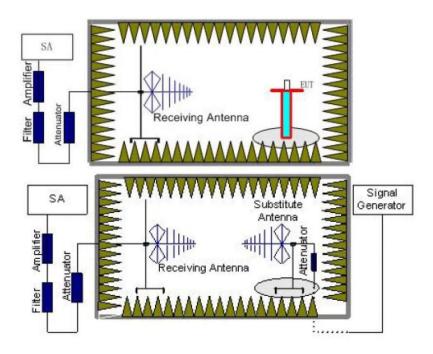
Report No.: CHTEW20070207 Page: 20 of 25 Issued: 2020-07-23

5.9. Radiated Spurious Emission

LIMIT

-13dBm

TEST CONFIGURATION



TEST PROCEDURE

- 1. Place the EUT in the center of the turntable.
 - a) For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table at a nominal height of 80 cm above the reference ground plane
 - b) For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table at a nominal height of 1.5 m above the ground plane.
- 2. Unless the EUT uses an integral antenna, the EUT shall be terminated with a non-radiating transmitter load. In cases where the EUT uses an adjustable antenna, the antenna shall be adjusted through typical positions and lengths to maximize emissions levels.
- 3. The EUT shall be tested while operating on the frequency per manufacturer specification. Set the transmitter to operate in continuous transmit mode.
- 4. Receiver or Spectrum set as follow:
 - Below 1GHz, RBW=100kHz, VBW=300kHz, Detector=Peak, Sweep time=Auto Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peck, Sweep time=Auto
- 5. Each emission under consideration shall be evaluated:
 - a) Raise and lower the measurement antenna from 1 m to 4 m, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.
 - b) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.
 - c) Return the turntable to the azimuth where the highest emission amplitude level was observed.
 - d) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.
 - e) Record the measured emission amplitude level and frequency
- 6. Repeat step 5 for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.
- 7. Set-up the substitution measurement with the reference point of the substitution antenna located as near as possible to where the center of the EUT radiating element was located during the initial EUT measurement.
- 8. Maintain the previous measurement instrument settings and test set-up, with the exception that the EUT is removed and replaced by the substitution antenna.
- 9. Connect a signal generator to the substitution antenna; locate the signal generator so as to minimize any

Report No.: CHTEW20070207 Page: 21 of 25 Issued: 2020-07-23

potential influences on the measurement results. Set the signal generator to the frequency where emissions are detected, and set an output power level such that the radiated signal can be detected by the measurement instrument, with sufficient dynamic range relative to the noise floor.

- 10. For each emission that was detected and measured in the initial test
 - a) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude.
 - b) Adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the amplitude level of the emission previously measured directly in step 5 and step 6.
 - c) Record the output power level of the signal generator when equivalence is achieved in step b).
- 11. Repeat step 8 through step 10 with the measurement antenna oriented in the opposite polarization.
- 12. Calculate the emission power in dBm referenced to a half-wave dipole using the following equation: Pe = Ps(dBm) cable loss (dB) + antenna gain (dBd) where

Pe = equivalent emission power in dBm

Ps = source (signal generator) power in dBm

NOTE—dBd refers to the measured antenna gain in decibels relative to a half-wave dipole.

- 13. Correct the antenna gain of the substitution antenna if necessary to reference the emission power to a half-wave dipole. When using measurement antennas with the gain specified in dBi, the equivalent dipole-referenced gain can be determined from: gain (dBd) = gain (dBi) 2.15 dB.
 - If necessary, the antenna gain can be calculated from calibrated antenna factor information
- 14. Provide the complete measurement results as a part of the test report.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

□ Passed □ Not A

Note: Worst case at WCDMA Band II/WCDMA Band IV/ WCDMA Band V

Report No.: CHTEW20070207 Page: 22 of 25 Issued: 2020-07-23

Channel: 926	2				Polariz	zation: Hor	zontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	32.64	-56.48	28.76	6.48	30.81	-52.05	-13.00	-39.05	Peak
2	417.82	-78.58	25.92	8.36		-74.50	-13.00	-61.50	Peak
3	1369.17	-69.60	37.10	12.59		-49.10	-13.00	-36.10	Peak
4	2307.22	-69.30	40.34	12,90	29.25	-45.31	-13,00	-32.31	Peak
5	3700.48	-64.92	42.29	9.79	37.05	-49.89	-13.00	-36.89	Peak
6	7820.86	-75.61	47.91	14.37	33.23	-46.56	-13.00	-33.56	Peak
Channel: 926	2				Polaria	zation: Vert	ical		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
Hark	MHz	dBm	dB	dB	dB	dBm	dBm	limit	Kellidi K
1	32.64	-54.76	20.94	6.48	30.81	-58.15	-13.00	-45.15	Peak
2	390.82	-79.45	25.72	8.28	30.11		-13.00		Peak
3	1378.22	-69.77	37.67	12.54		-48.72	-13.00		Peak
4	2342.98	-70.00	39.99	13.01		-45.88	-13.00		Peak
5	3700.48	-67.38	42.31	9.79	37.05	-52.33	-13.00	-39.33	Peak
6	7798.21	-75.12	48.56	14.32	33.20	-45.44	-13.00		Peak
Channel: 940	0				Polariz	zation: Hori	zontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	32.87	-56.87	28.75	6.48		-52.44	-13.00	-39.44	Peak
2	448.27	-78.50	26.14	8.48		-74.23	-13.00		Peak
3	1283.24	-69.96	36.92	12.68		-49.75	-13.00	-36.75	Peak
4	2410.87	-70.78	39.76	13.27		-45.99	-13.00	-32.99	Peak
5	3754.53	-64.91	42.23	9.82	37.13	-49.99	-13.00	-36.99	Peak
6	7854.96	-75.29	47.95	14.47	33.27	-46.14	-13.00	-33.14	Peak
Channel: 940	0				Polariz	zation: Vert	ical		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
mark	MHz	dBm	dB	dB	dB	dBm	dBm	limit	Kelliar K
1	32.64	-55.27	20.94	6.48		-58.66	-13.00		Peak
2	394.97	-79.22	25.87	8.30		-75.16	-13.00	-62.16	Peak
3	1404.21	-79.22	37.76	12.40		-49.32	-13.00	-36.32	Peak
4	2325.03	-69.91	40.20	12.46	29.10	-49.32	-13.00	-30.32	Peak
5	3759.98	-67.76	42.14	9.82	37.12	-52.92	-13.00	-39.92	Peak
6	7597.27	-76.52	48.25	14.66	33.21	-46.82	-13.00	-33.82	Peak
		-70.52	40.25	14.00				-33.02	PEAK
Channel: 953	8				Polariz	zation: Hori	zontal		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	0ver	Remark
rial K	MHz	dBm	dB	dB	dB	dBm	dBm	limit	ACHIOT K
1	32.64	-55.37	28.76	6.48	30.81	-50.94	-13.00	-37.94	Peak
2	400.56	-78.65	26.20	8.32	30.11	-74.24	-13.00	-61.24	Peak
3	1332.08	-70.22	37.02	12.79	29.29	-49.70	-13.00	-36.70	Peak
4	2340.41	-69.88	40.15	13.01	28.90	-45.62	-13.00	-32.62	Peak
5	3814.91	-61.33	42.12	9.86	37.00	-46.35	-13.00	-33.35	Peak
6	7992.86	-75.77	48.12	14.31	33.31	-46.65	-13.00	-33.65	Peak
Channel: 953	8				Polariz	zation: Vert	ical		
Mark	Frequency	Reading	Antenna	Cable	Preamp		Limit	0ver	Remark
	MHz	dBm	dB	dB	dB	dBm	dBm	limit	
1	32.64	-55.52	20.94	6.48	30.81	-58.91	-13.00	-45.91	Peak
2	407.67	-79.30	25.75	8.34	30.15	-75.36	-13.00	-62.36	Peak
3	1335.01	-69.54	37.48	12.78	29.29	-48.57	-13.00	-35.57	Peak
4	2225.07	-70.90	41.42	12.66	29.57	-46.39	-13.00	-33.39	Peak
5 6	3814.91 7169.09	-65.21 -75.40	41.98 48.44	9.86 13.68	37.00 33.97	-50.37 -47.25	-13.00 -13.00	-37.37 -34.25	Peak Peak

Remark:

- The emission behaviour belongs to narrowband spurious emission.

 The emission levels of not record in the report are very lower than the limit and not show in test report. 2.

Report No.: CHTEW20070207 Page: 23 of 25 Issued: 2020-07-23

Channel: 413	2				Polariz	zation: Hori	zontal		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	0ver	Remark
	MHz	dBm	dB	dB	dB	dBm	dBm	limit	
1	37.05	-73.84	28.65	6.53	30.78	-69.44	-13.00	-56.44	Peak
2	409.10	-79.41	26.06	8.34	30.16	-75.17	-13.00	-62.17	Peak
3	1326.23	-69.69	37.01	12.82	29.31	-49.17	-13.00	-36.17	Peak
4	2294.58	-69.03	40.41	12.86	29.35	-45.11	-13.00	-32.11	Peak
5	3309.48	-65.44	40.38	9.03	36.85	-52.88	-13.00	-39.88	Peak
6	8039.36	-75.16	47.99	14.28	33.31	-46.20	-13.00	-33.20	Peak
Channel: 413	2				Polariz	zation: Vert	ical		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	0ver	Remark
	MHz	dBm	dB	dB	dB	dBm	dBm	limit	
1	91.78	-78.63	27.72	6.93	30.67	-74.65	-13.00	-61.65	Peak
2	400.56	-76.68		8.32		-72.44	-13.00		Peak
3	1415.05	-69.73	37.76	12.33		-48.74	-13.00	-35.74	Peak
4	2259.56	-69.59	40.99	12.76		-45.30	-13.00		Peak
5	3309.48	-66.48	40.42	9.03		-53.88	-13.00	-40.88	Peak
6	7741.87	-76.26	48.47	14.55	33.17	-46.41	-13.00	-33.41	Peak
Channel: 418	2				Polariz	zation: Hori	zontal		
Mark	Frequency	Reading	Antenna	Cable	Doores	Level	Limit	0ver	Remark
Platrk									Remark
	MHz	dBm	dB	dB	dB	dBm	dBm 12.00	limit	Da-I:
1	36.92	-73.14	28.65	6.53		-68.74	-13.00	-55.74	Peak
2	413.44	-79.27	25.99	8.35	30.18		-13.00		Peak
3	1363.16	-69.85	37.09	12.62		-49.34	-13.00		Peak
4	2314.84	-70.29	40.30	12.93	29.17	-46.23	-13.00	-33.23	Peak
5	3338.41	-61.12	40.12	9.07	36.93	-48.86	-13.00	-35.86	Peak
6	7608.30	-75.85	47.64	14.68	33.19	-46.72	-13.00	-33.72	Peak
Channel: 418	2				Polariz	zation: Vert	ical		
44		n	A-+						D
Mark	Frequency			Cable			Limit	0ver	Remark
	MHz	dBm	dB	dB	dB	dBm	dBm	limit	
1	90.19	-78.82	28.23	6.92	30.67		-13.00	-61.34	Peak
2	400.56	-76.72	26.03	8.32		-72.48	-13.00	-59.48	Peak
3	1376.71	-69.73	37.66	12.55		-48.69	-13.00	-35.69	Peak
4	2297.11	-69.66	40.53	12.87	29.34	-45.60	-13.00	-32.60	Peak
5	3338.41	-61.79	40.15	9.07	36.93	-49.50	-13.00	-36.50	Peak
6	7663.67	-76.78	48.35	14.71	33.16	-46.88	-13.00	-33.88	Peak
Channel: 423	3				Polariz	zation: Hori	zontal		
Mark	Frequency	Reading	Antenna	Cable			Limit	0ver	Remark
	MHz	dBm	dB	dB	dB	dBm	dBm	limit	
1	37.57	-73.32	28.63	6.53	30.79	-68.95	-13.00	-55.95	Peak
2	413.44	-79.27	25.99	8.35	30.18	-75.11	-13.00	-62.11	Peak
3	1326.23	-69.86	37.01	12.82	29.31	-49.34	-13.00	-36.34	Peak
4	2314.84	-70.26	40.30	12.93	29.17	-46.20	-13.00	-33.20	Peak
5	3387.17	-64.94	39.69	9.14	36.87	-52.98	-13.00	-39.98	Peak
6	7981.27	-75.77	48.11	14.35	33.31	-46.62	-13.00	-33.62	Peak
Channel: 423	3				Polariz	zation: Vert	ical		
		n !!		6.13					
Mark	Frequency	Reading	Antenna	Cable	Preamp		Limit	0ver	Remark
	MHz	dBm	dB	dB	dB	dBm	dBm	limit	
1	88.30	-78.23	27.63	6.91	30.68	-74.37	-13.00	-61.37	Peak
2	480.93	-78.65	26.63	8.57	30.72	-74.17	-13.00	-61.17	Peak
3	1375.20	-68.46	37.65	12.56	29.17	-47.42	-13.00	-34.42	Peak
4	2222.63	-70.32	41.45	12.66	29.58	-45.79	-13.00	-32.79	Peak
5	3382.26	-66.27	39.73	9.14	36.90	-54.30	-13.00	-41.30	Peak
6	7935.11	-75.51	47.92	14.49	33.32	-46.42	-13.00	-33.42	Peak

Remark:

- 1.
- The emission behaviour belongs to narrowband spurious emission.

 The emission levels of not record in the report are very lower than the limit and not show in test report.

Report No.: CHTEW20070207 Page: 24 of 25 Issued: 2020-07-23

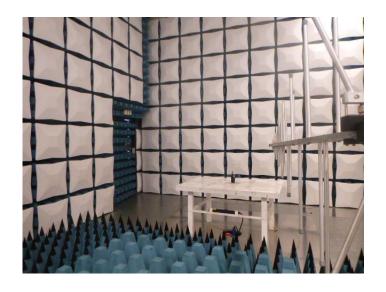
Channel: 131	2				Polariz	zation: Hori	zontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	32.64	-56.43	28.76	6.48	30.81	-52.00	-13.00	-39.00	Peak
2	375.99	-77.65	25.37	8.22	30.12	-74.18	-13.00	-61.18	Peak
3	1329.15	-69.36	37.02	12.81	29.30	-48.83	-13.00	-35.83	Peak
4	2247.18	-69.88	40.69	12.73	29.50	-45.96	-13.00	-32.96	Peak
5	3426.70	-63.13	39.96	9.25	36.61	-50.53	-13.00	-37.53	Peak
6	5135.72	-69.24	44.08	11.46	35.45	-49.15	-13.00	-36.15	Peak
Channel: 131	2				Polariz	zation: Vert	ical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	dBm	Limit dBm	Over limit	Remark
1	32.64	-55.47	20.94	6.48	30.81	-58.86	-13.00	-45.86	Peak
2	400.56	-77.19	26.03	8.32	30.11	-72.95	-13.00	-59.95	Peak
3	1293.14	-68.80	37.29	12.85	29.39	-48.05	-13.00	-35.05	Peak
4	2252.13	-69.61	41.08	12.74	29.48	-45.27	-13.00	-32.27	Peak
5	3421.73	-60.30	39.91	9.23	36.62	-47.78	-13.00	-34.78	Peak
6	5135.72	-70.58	44.11	11.46	35.45	-50.46	-13.00	-37.46	Peak
Channel: 141	3				Polariz	zation: Hori	zontal		
I		n	A-+	C-1-1	D	11	13-24	0	Dame!:
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	32.64	-56.56	28.76	6.48	30.81	-52.13	-13.00	-39.13	Peak
2	479.24	-79.06	26.07	8.57	30.70	-75.12	-13.00	-62.12	Peak
3	1372.18	-69.95	37.10	12.58	29.18	-49.45	-13.00	-36.45	Peak
4	2279.51	-69.65	40.50	12.82	29.39	-45.72	-13.00	-32.72	Peak
5	3461.66	-60.83	40.46	9.37	36.56	-47.56	-13.00	-34.56	Peak
6	5195.65	-69.35	43.96	11.51	35.39	-49.27	-13.00	-36.27	Peak
Channel: 141	3				Polariz	zation: Vert	ical		
Mark	Frequency	Reading	Antenna	Cable	Preamp		Limit	Over	Remark
	MHz	dBm	dB	dB	dB	dBm	dBm	limit	
1	32.64	-55.18	20.94	6.48	30.81	-58.57	-13.00	-45.57	Peak
2	400.56	-79.08	26.03	8.32	30.11	-74.84	-13.00	-61.84	Peak
3	1310.30	-70.06	37.36	12.91	29.36	-49.15	-13.00	-36.15	Peak
4	2342.98	-69.77	39.99	13.01	28.88	-45.65	-13.00	-32.65	Peak
5	3466.69	-62.94	40.61	9.39	36.57	-49.51	-13.00	-36.51	Peak
6	5203.19	-67.24	43.92	11.53	35.38	-47.17	-13.00	-34.17	Peak
Channel: 151	3				Polariz	zation: Hori	zontal		
		D!!	A	6-13					D '
Mark	Frequency	Reading	Antenna	Cable	Preamp		Limit	0ver	Remark
	MHz	dBm	dB	dB	dB	dBm	dBm	limit	
1	32.64	-57.41	28.76	6.48	30.81	-52.98	-13.00	-39.98	Peak
2	404.81	-79.01	26.13	8.33	30.14	-74.69	-13.00	-61.69	Peak
3	1305.99	-69.50	36.97	12.94	29.37	-48.96	-13.00	-35.96	Peak
4	2445.55	-71.30	39.57	13.51	28.07	-46.29	-13.00	-33.29	Peak
5	3502.06	-61.08	41.03	9.51	36.62	-47.16	-13.00	-34.16	Peak
6	5256.28	-71.34	43.99	11.79	35.34	-50.90	-13.00	-37.90	Peak
	3				Polariz	zation: Vert	ical		
Channel: 151					Preamp	Level	Limit	0ver	Remark
Channel: 151	Epequence	Deading	Antenna			Level	LIMIT	UVEI.	nemark
Channel: 151 Mark	Frequency	Reading	Antenna	Cable					
Mark	MHz	dBm	dB	dB	dB	dBm	dBm	limit	
Mark 1	MHz 32.76	dBm -54.96	dB 20.96	dB 6.48	dB 30.81	dBm -58.33	dBm -13.00	limit -45.33	Peak
Mark 1 2	MHz 32.76 375.99	dBm -54.96 -78.03	dB 20.96 25.23	dB 6.48 8.22	dB 30.81 30.12	dBm -58.33 -74.70	dBm -13.00 -13.00	limit -45.33 -61.70	Peak Peak
Mark 1 2 3	MHz 32.76 375.99 1333.54	dBm -54.96 -78.03 -69.86	dB 20.96 25.23 37.47	dB 6.48 8.22 12.78	dB 30.81 30.12 29.29	dBm -58.33 -74.70 -48.90	dBm -13.00 -13.00 -13.00	limit -45.33 -61.70 -35.90	Peak Peak Peak
Mark 1 2 3 4	MHz 32.76 375.99 1333.54 2664.36	dBm -54.96 -78.03 -69.86 -72.86	dB 20.96 25.23	dB 6.48 8.22	dB 30.81 30.12	dBm -58.33 -74.70	dBm -13.00 -13.00	limit -45.33 -61.70 -35.90 -32.21	Peak Peak
Mark 1 2 3	MHz 32.76 375.99 1333.54	dBm -54.96 -78.03 -69.86	dB 20.96 25.23 37.47	dB 6.48 8.22 12.78	dB 30.81 30.12 29.29	dBm -58.33 -74.70 -48.90	dBm -13.00 -13.00 -13.00	limit -45.33 -61.70 -35.90	Peak Peak Peak

Remark

- 1. The emission behaviour belongs to narrowband spurious emission.
- 2. The emission levels of not record in the report are very lower than the limit and not show in test report

Report No.: CHTEW20070207 Page: 25 of 25 Issued: 2020-07-23

6. TEST SETUP PHOTOS OF THE EUT





7. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

Refere to the test report No.: CHTEW20070206

8. APPENDIX REPORT