FCC REPORT

Report Reference No.....:: CHTEW21070220 Report Verification:

Project No..... SHT2104128003EW

FCC ID.....:: 2AY5M-E3PDA

Applicant's name.....: Fuzhou Soarfree Information Technology Co., Ltd.

Address.....: Office 426, Floor 4, Building 3, Plot A1, Fuzhou Zhengrong Fortune

Center,28 Xinbao Road,Shangjie Town,Minhou

County, Fuzhou, Fujian

Test item description: **New Mobile Computer**

Trade Mark:

Model/Type reference..... E3PDA

Listed Model(s):

FCC CFR Title 47 Part 2 Standard:

FCC CFR Title 47 Part 22

FCC CFR Title 47 Part 27

Date of receipt of test sample.... Jun. 22, 2021

Date of testing.....: Jun. 23, 2021- Jul. 29, 2021

Date of issue..... Jul. 30, 2021

Result.....: **Pass**

Compiled by

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

Supervised by

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Approved by

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

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

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

Gongming, Shenzhen, China

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The test report merely correspond to the test sample.

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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 27: MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES

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	2021-07-30	Original

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2. Test Description

Test Item	Section in CFR 47	Result	Test Engineer	
	Part 2.1046			
Conducted Output Power	Part 22.913(a)	Pass	Jiongsheng Feng	
	Part 27.50			
Dook to Average Detic	Part 24.232	Door	lianashana Fana	
Peak-to-Average Ratio	Part 27.50	Pass	Jiongsheng Feng	
200/ 0 D - 0 00	Part 2.1049			
99% Occupied Bandwidth & 26 dB Bandwidth	Part 22.917(b)	Pass	Jiongsheng Feng	
Baridwidtii	Part 27.53			
	Part 2.1051			
Band Edge	Part 22.917	Pass	Jiongsheng Feng	
	Part 27.53			
	Part 2.1051			
Conducted Spurious Emissions	Part 22.917	Pass	Jiongsheng Feng	
	Part 27.53			
	Part 2.1055(a)(1)(b)			
Frequency stability VS Temperature	Part 22.355	Pass	Jiongsheng Feng	
	Part 27.54			
	Part 2.1055(d)(1)(2)			
Frequency stability VS Voltage	Part 22.355	Pass	Jiongsheng Feng	
	Part 27.54			
EDD and EIDD	Part 22.913(a)	Door	Dan Via	
ERP and EIRP	Part 27.50	Pass	Pan Xie	
	Part 2.1053			
Radiated Spurious Emissions	Part 22.917	Pass	Pan Xie	
	Part 27.53			

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

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3. **SUMMARY**

3.1. Client Information

Applicant:	Fuzhou Soarfree Information Technology Co., Ltd.			
Address:	Office 426, Floor 4, Building 3, Plot A1, Fuzhou Zhengrong Fortune Center, 2 Xinbao Road, Shangjie Town, Minhou County, Fuzhou, Fujian			
Manufacturer:	Fuzhou Soarfree Information Technology Co., Ltd.			
Address:	Office 426, Floor 4, Building 3, Plot A1, Fuzhou Zhengrong Fortune Center, 28 Xinbao Road, Shangjie Town, Minhou County, Fuzhou, Fujian			

3.2. Product Description

Name of EUT:	New Mobile Computer							
Trade Mark:	-							
Model No.:	E3PDA	E3PDA						
Listed Model(s):	-	-						
SIM Information:	Support One SIM Ca	ırd						
Power supply:	DC 3.7V							
Adapter information:	Model:TPA-46050200UU Input: AC100-240V, 50/60Hz, 0.3A Output: 5.0Vdc, 2000mA							
Hardware version:	7129S0_MMI_V02	7129S0_MMI_V02						
Software version:	R107V200R001C01B011_SF01							
4G								
Operation Band:		□ TDD Band 38 □ TDD Band 41						
	FDD Band 5:	824.7 MHz – 848.3 MHz						
Transmit frequency:	TDD Band 38:	2572.5 MHz – 2617.5 MHz						
	TDD Band 41:	2557.5 MHz – 2652.5 MHz						
	FDD Band 5:	869.7 MHz – 893.3 MHz						
Receive frequency:	TDD Band 38:	2572.5 MHz – 2617.5 MHz						
	TDD Band 41:	2557.5 MHz – 2652.5 MHz						
	FDD Band 5:	1.4MHz, 3MHz, 5MHz, 10MHz						
Channel bandwidth:	TDD Band 38:	5MHz, 10MHz, 15MHz, 20MHz						
	TDD Band 41:	5MHz, 10MHz, 15MHz, 20MHz						
Power Class:	Class 3							
Modulation type:	QPSK, 16QAM							
Antenna type	Loop Antenna							
Antenna Gain	Band5:-1.5dBi Band38:1.0dBi Band41:1.0dBi							

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3.3. Operation state

> Test frequency list

	Test Frequency ID	Bandwid [MHz]	th N _{UL}	Frequency of Uplink [MHz		Frequency of Downlink [MHz]	
		1.4	20407	824.7	2407	869.7	
		3	20415	825.5	2415	870.5	
	Low Range	5	20425	826.5	2425	871.5	
		10 [1]	20450	829	2450	874	
DD Band 5	Mid Range	1.4/3/5 10 ^[1]	20525	836.5	2525	881.5	
		1.4	20643	848.3	2643	893.3	
	I I I I I I I I I I I I I I I I I I I	3	20635	847.5	2635	892.5	
	High Range	5	20625	846.5	2625	891.5	
		10 [1]	20600	844	2600	889	
	NOTE 1: Bandwidth fo 36.101 [27]	Clause 7.3)	is allowed.			`	
	Test Frequency	y ID	Bandwidth [MHz]	EARFCN		Frequency (UL and DL) [MHz]	
			5	37775	7775 257		
			10	37800	25	575	
	Low Range		15	37825	+	77.5	
DD Band 38			20	37850		2580	
	Mid Range		5/10/15/20	38000	2595		
			5	38225	2617.5		
	High Range		10 38200			315	
	nigii Range		15	38175	2612.5		
			20	38150	26	610	
	Test Frequen	cy ID	Bandwidth [MHz]	EARFCN	Frequency (UL and DL) [MHz]		
	Low Rang	е	5	40265	255	7.5	
			10	40290		60	
			15	40315	256	2.5	
D Band 41			20	40340	25	65	
	Mid Range	e	5/10/15/20	40740	26	05	
	High Rang		5	41215		52.5	
		·	10	41190	26	50	
		<u> </u>	15	41165		7.5	
			20	41140		45	
	 		20	71170	20	70	

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3.4. EUT operation mode

For RF test items

The EUT has been tested under typical operating condition. Testing was performed by configuring EUT to maximum output power status.

T ! !!	David			Bandwid	Ith (MHz)			Modu	ulation	RB#		
Test Items	Band	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full
Conducted Output Power	5	0	0	0	0	-	-	0	0	0	0	0
	38	-	-	0	0	0	0	0	0	0	0	0
	41	-	-	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	-	-	0	0	0	-	0
Peak-to-Average Ratio	38	-	-	0	0	0	0	0	0	0	-	0
Ratio	41	-	-	0	0	0	0	0	0	0	-	0
99% Occupied	5	0	0	0	0	-	-	0	0	-	-	0
Bandwidth & 26	38	-	-	0	0	0	0	0	0	-	-	0
dB Bandwidth	41	-	-	0	0	0	0	0	0	-	i	0
	5	0	0	0	0	-	-	0	0	0	-	0
Band Edge	38	-	-	0	0	0	0	0	0	0	-	0
	41	-	-	0	0	0	0	0	0	0	i	0
	5	0	0	0	0	-	-	0	0	0	i	1
Conducted Spurious Emission	38	-	-	0	0	0	0	0	0	0	-	ı
Opa0 ao 200.0	41	-	-	0	0	0	0	0	0	0	-	-
_	5	0	0	0	0	-	-	0	0	-	-	0
Frequency Stability	38	-	-	0	0	0	0	0	0	-	i	0
Clabinly	41	-	-	0	0	0	0	0	0	-	-	0
	5	0	0	0	0	-	-	0	0	0	-	-
ERP and EIRP	38	-	-	0	0	0	0	0	0	0	-	-
	41	-	-	0	0	0	0	0	0	0	-	-
B #	5	0	0	0	0	-	-	0	0	0	-	-
Radiated Spurious Emission	38	-	-	0	0	0	0	0	0	0	-	-
Lilliodioii	41	-	-	0	0	0	0	0	0	0	-	-
Remark	1. The mark " o "means that this configuration is chosenfor testing 2. The mark "-"means that this bandwidth is not test. 3. The device is investigatedfrom 30MHz to10 times offundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.											

3.5. EUT configuration

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

- supplied by the manufacturer

0	- supr	haile	hν	the	lah

0	/	Manufacturer:	/
	1	Model No.:	/
		Manufacturer:	/
0		Model No.:	/

3.6. Modifications

No modifications were implemented to meet testing criteria.

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4. TEST ENVIRONMENT

4.1. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.				
Laboratory Location	1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China				
Connect information:	Tel: 86-755-26715499 E-mail: cs@szhtw.com.cn http://www.szhtw.com.cn				
Qualifications	Туре	Accreditation Number			
Qualifications	FCC	762235			

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4.2. 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	2020/10/19	2021/10/18
•	Signal & Spectrum Analyzer	R&S	HTWE0262	FSW26	103440	2020/10/19	2021/10/18
•	Spectrum Analyzer	Agilent	HTWE0286	N9020A	MY50510187	2020/10/19	2021/10/18
•	Radio communication tester	R&S	HTWE0287	CMW500	137688-Lv	2020/10/19	2021/10/18
•	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	2020/10/20	2021/10/19
•	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2021/04/06	2022/04/05
•	Broadband Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2018/10/11	2021/10/11
•	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0123	VULB9163	538	2021/04/06	2022/04/05
•	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2020/04/01	2023/03/31
•	Pre-amplifier	CD	HTWE0071	PAP-0102	12004	2020/11/13	2021/11/12
•	Broadband Preamplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2021/03/05	2022/03/04
•	RF Connection Cable	HUBER+SUHNER	HTWE0120- 01	6m 18GHz S Serisa	N/A	2021/02/26	2022/02/25
•	RF Connection Cable	HUBER+SUHNER	HTWE0120- 02	6m 3GHz RG Serisa	N/A	2021/02/26	2022/02/25
•	RF Connection Cable	HUBER+SUHNER	HTWE0120- 03	6m 3GHz RG Serisa	N/A	2021/02/26	2022/02/25
•	RF Connection Cable	HUBER+SUHNER	HTWE0120- 04	6m 3GHz RG Serisa	N/A	2021/02/26	2022/02/25
•	RF Connection Cable	HUBER+SUHNER	HTWE0121- 01	6m 18GHz S Serisa	N/A	2021/02/26	2022/02/25
•	EMI Test Software	Audix	N/A	E3	N/A	N/A	N/A

•	Auxiliary Equipment								
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	2020/10/21	2021/10/20		
•	DC Power Supply	Gwinstek	HTWE0274	SPS-2415	GER835793	N/A	N/A		

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4.3. Environmental conditions

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

	VN=Nominal Voltage	DC 3.70V			
Voltage	VL=Lower Voltage	DC 3.60V			
	VH=Higher Voltage	DC 4.20V			
Tomporoturo	TN=Normal Temperature	25 °C			
Temperature	Extreme Temperature	From -30° to + 50° centigrade			
Humidity	30~60 %				
Air Pressure	950-1050 hPa				

4.4. 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 compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1"and TR-100028-02 "Electromagnetic compatibility and 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 Huatongweilaboratory 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 3.44dB for >1GHz	(1)
Occupied Bandwidth	15Hz for <1GHz 70Hz for >1GHz	(1)
Frequency error	15Hz for <1GHz 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.

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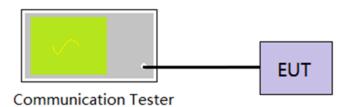
5. TEST CONDITIONS AND RESULTS

5.1. Conducted Output Power

<u>LIMIT</u>

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

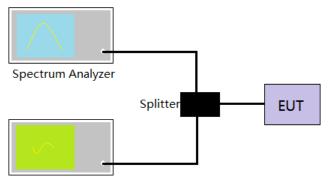
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5.2. Peak-to-Average Ratio

LIMIT

13dB

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. 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

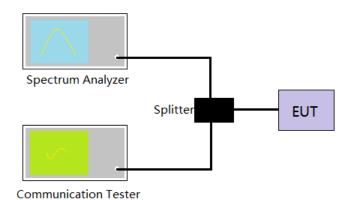
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5.3. 99% Occupied Bandwidth & 26 dB Bandwidth

<u>LIMIT</u>

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 the 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

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5.4. Band Edge

LIMIT

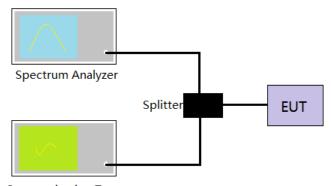
Part 24.238 and Part 22.917 and Part 27.53 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

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.

LTE Band 7

Part 27.53 m(4) For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section.

TEST CONFIGURATION



Communication Tester

TEST PROCEDURE

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- Set EUT in maximum power output.
- 3. The band edges of low and high channels were measured.
- Spectrum analyzer setting as follow:
 RBW= no less than 1% of the OBW, VBW =3 * RBW, 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

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5.5. Conducted Spurious Emissions

LIMIT

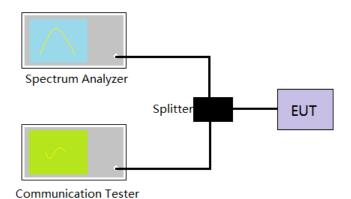
Part 24.238 and Part 22.917 and Part 27.53 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

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.

LTE Band 7

Part 27.53 m(4) For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. Limit <-25 dBm

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

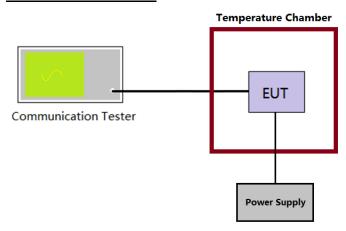
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5.6. Frequency stability VS Temperature measurement

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

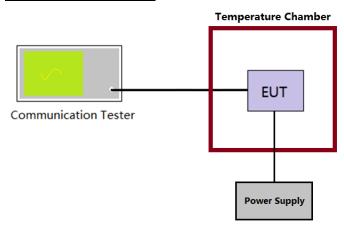
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5.7. Frequency stability VS Voltage measurement

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

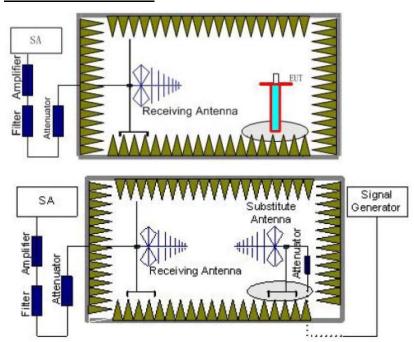
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5.8. ERP and EIRP

LIMIT

LTE Band 38/41: 2W(33dBm) EIRP LTE Band 5: 7W(38.50dBm) ERP

TEST CONFIGURATION



TEST PROCEDURE

- 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

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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.

- 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 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

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LTE Band 5-1.4MHz							
Modulation	Channel	ERP (dBm)		Limit (dDay)	Daniell		
iviodulation	Channel	Vertical	Horizontal	Limit (dBm)	Result		
	Low	20.69	18.08	<20.50			
QPSK	Mid	20.92	18.54		PASS		
	High	20.57	18.33				
	Low	20.63	18.05	≤38.50 			
16QAM	Mid	20.88	18.60		PASS		
	High	20.53	18.29				

	LTE Band 5-3MHz							
Modulation	Chamal	ERP (dBm)		Lineit (dDne)	Dooult			
Modulation	Channel	Vertical	Horizontal	Limit (dBm)	Result			
	Low	20.66	18.07	400 E0				
QPSK	Mid	20.90	18.48		PASS			
	High	20.62	18.37					
	Low	20.59	18.00	- ≤38.50 -				
16QAM	Mid	20.80	18.51		PASS			
	High	20.52	18.34					

	LTE Band 5-5MHz							
Modulation	Channel	ERP	ERP (dBm)		D !!			
Modulation	Channel	Vertical	Horizontal	Limit (dBm)	Result			
	Low	20.65	18.04		PASS			
QPSK	Mid	20.81	18.49	200 50				
	High	20.56	18.40					
	Low	20.68	18.15	≤38.50 				
16QAM	Mid	20.78	18.45		PASS			
	High	20.46	18.28					

LTE Band 5-10MHz							
Modulation	Channel	ERP	(dBm)	Limit (dDm)	Dogult		
iviodulation	Channel	Vertical	Horizontal	Limit (dBm)	Result		
	Low	20.70	18.01	220.50	PASS		
QPSK	Mid	20.92	18.55				
	High	20.56	18.38				
	Low	20.73	18.13	≤38.50 			
16QAM	Mid	20.89	18.56		PASS		
	High	20.55	18.37				

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LTE Band 38-5MHz							
Modulation	Channel	EIRP	(dBm)	Limit (dDm)	Result		
iviodulation	Channel	Vertical	Horizontal	Limit (dBm)			
	Low	20.72	18.19	≤33.00			
QPSK	Mid	20.64	18.60		PASS		
	High	20.90	17.99				
	Low	20.60	18.12				
16QAM	Mid	20.53	18.67		PASS		
	High	20.81	17.89				

	LTE Band 38-10MHz							
Madulation	Chamal	EIRP (dBm)		Lineit (dDne)	Decult			
Modulation	Channel	Vertical	Horizontal	Limit (dBm)	Result			
	Low	20.64	18.15	400.00				
QPSK	Mid	20.67	18.53		PASS			
	High	20.97	18.04					
	Low	20.53	18.03	- ≤33.00				
16QAM	Mid	20.47	18.61		PASS			
	High	20.76	17.93					

LTE Band 38-15MHz							
Modulation	Channel	EIRP (dBm)		Limit (dPm)	Danish		
Modulation	Channel	Vertical	Horizontal	Limit (dBm)	Result		
	Low	20.64	18.11		PASS		
QPSK	Mid	20.53	18.60	700.00			
	High	20.91	18.17				
	Low	20.68	18.32	≤33.00 			
16QAM	Mid	20.48	18.51		PASS		
	High	20.70	17.93				

LTE Band 38-20MHz							
Modulation	Channel	EIRP	(dBm)	Limit (dDm)	Dogult		
Modulation	Channel	Vertical	Horizontal	Limit (dBm)	Result		
	Low	20.68	18.02	400.00			
QPSK	Mid	20.59	18.59		PASS		
	High	20.83	18.02				
	Low	20.75	18.25	- ≤33.00 -			
16QAM	Mid	20.60	18.66		PASS		
	High	20.81	18.00				

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LTE Band 41-5MHz							
Modulation	Channel	EIRP	EIRP (dBm)		Doorth		
iviodulation	Chamilei	Vertical	Horizontal	Limit (dBm)	Result		
	Low	20.88	17.94				
QPSK	Mid	20.79	18.54	200.00	PASS		
	High	20.49	17.95				
	Low	20.76	17.87	≤33.00			
16QAM	Mid	20.72	18.60		PASS		
	High	20.43	17.89				

	LTE Band 41-10MHz								
Modulation	Channel	EIRP	EIRP (dBm)		Result				
Modulation	Channel	Vertical	Horizontal	Limit (dBm)	Result				
	Low	20.75	17.85	≤33.00					
QPSK	Mid	20.86	18.52		PASS				
	High	20.60	18.04						
	Low	20.66	17.77						
16QAM	Mid	20.68	18.57		PASS				
	High	20.39	17.92						

LTE Band 41-15MHz								
Mashalatian	Channel	EIRP (dBm)		Limit (dBm)	Result			
Modulation	Channel	Vertical	Horizontal	LIIIII (UDIII)	Resuit			
	Low	20.80	17.87					
QPSK	Mid	20.73	18.56		PASS			
	High	20.53	18.14	≤33.00				
	Low	20.88	18.09	≥33.00				
16QAM	Mid	20.67	18.48]	PASS			
	High	20.37	17.95					

	LTE Band 41-20MHz								
Modulation	Channel	EIRP	(dBm)	Limit (dPm)	Dogult				
Modulation	Channel	Vertical	Horizontal	Limit (dBm)	Result				
	Low	20.84	17.79	700.00					
QPSK	Mid	20.83	18.59		PASS				
	High	20.46	18.01						
	Low	20.93	18.01	≤33.00					
16QAM	Mid	20.84	18.65		PASS				
	High	20.46	18.00						

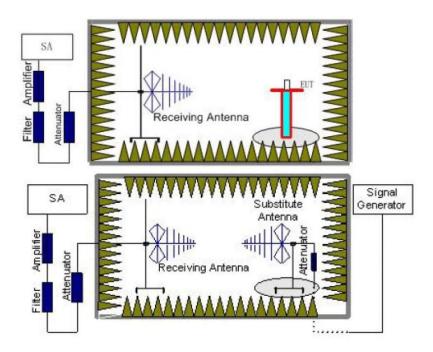
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5.9. Radiated Spurious Emission

<u>LIMIT</u>

LTE Band 5: -13dBm; LTE Band 38/41: -25dBm

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

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and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.

- 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 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

Note: only show the worse case for QPSK modulation.

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LTE Band 5-1.4MHz							
Channal	Frequency	Spurious	Emission	Limeit (dDms)	Daguit		
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result		
	1649.4	Vertical	-31.36				
	2474.1	V	-40.46	≤-13.00	Pass		
Low	3298.8	V	-42.56				
LOW	1649.4	Horizontal	-33.31				
	2474.1	Н	-41.00	≤-13.00	Pass		
	3298.8	Н	-42.51				
	1673	Vertical	-30.68	≤-13.00	Pass Pass		
	2509.5	V	-39.34				
Mid	3346	V	-41.32				
IVIIG	1673	Horizontal	-31.79				
	2509.5	Н	-40.14	≤-13.00			
	3346	Н	-41.58				
	1696.6	Vertical	-29.58				
	2544.9	V	-37.89	≤-13.00	Pass		
∐iah	3393.2	V	-39.85				
High	1696.6	Horizontal	-30.34				
	2544.9	Н	-39.32	≤-13.00	Pass		
	3393.2	Н	-41.09				

LTE Band 5-3MHz								
Channel	Frequency	Spurious I	Emission	Limit (dDm)	Dooult			
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result			
	1651	Vertical	-28.88					
	2476.5	V	-37.00	≤-13.00	Pass			
_	3302	V	-39.43					
Low	1651	Horizontal	-30.01					
	2476.5	Н	-38.61	≤-13.00	Pass			
	3302	Н	-40.26					
	1673	Vertical	-28.07		Pass			
	2509.5	V	-36.29	≤-13.00				
Mid	3346	V	-38.69					
IVIIU	1673	Horizontal	-29.36					
	2509.5	Н	-37.61	≤-13.00	Pass			
	3346	Н	-39.74					
	1695	Vertical	-27.33					
	2542.5	V	-35.37	≤-13.00	Pass			
Lliab	3390	V	-37.47					
High	1695	Horizontal	-28.15					
	2542.5	Н	-36.93	≤-13.00	Pass			
	3390	Н	-39.33					

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LTE Band 5-5MHz							
Channal	Frequency	Spurious	Emission	Lineit (dDne)	5		
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result		
	1653	Vertical	-26.42				
	2479.5	V	-33.86	≤-13.00	Pass		
Low	3306	V	-36.96				
LOW	1653	Horizontal	-27.33				
	2479.5	Н	-36.02	≤-13.00	Pass		
	3306	Н	-38.17				
	1673	Vertical	-25.18	≤-13.00	Pass		
	2509.5	V	-32.77				
Mid	3346	V	-35.83				
IVIIQ	1673	Horizontal	-26.33				
	2509.5	Н	-34.49	≤-13.00	Pass		
	3346	Н	-37.37				
	1693	Vertical	-24.05				
	2539.5	V	-31.37	≤-13.00	Pass		
Lliah	3386	V	-33.96				
High	1693	Horizontal	-24.49				
	2539.5	Н	-33.45	≤-13.00	Pass		
	3386	Н	-36.75				

LTE Band 5-10MHz							
Channal	Frequency	Spurious	Emission	Limit (dDm)	Danult		
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result		
	1658	Vertical	-23.38				
	2487	V	-30.52	≤-13.00	Pass		
Low	3316	V	-33.55				
Low	1658	Horizontal	-24.17				
	2487	Н	-32.76	≤-13.00	Pass		
	3316	Н	-35.95				
	1673	Vertical	-22.60		Pass		
	2509.5	V	-29.83	≤-13.00			
Mid	3346	V	-32.84				
IVIIU	1673	Horizontal	-23.54				
	2509.5	Н	-31.79	≤-13.00	Pass		
	3346	Н	-35.45				
	1688	Vertical	-21.89				
	2532	V	-28.95	≤-13.00	Pass		
Lliah	3376	V	-31.66				
High	1688	Horizontal	-22.38				
	2532	Н	-31.13	≤-13.00	Pass		
	3376	Н	-35.06				

Remark:

- 1.
- Remark"---" means that the emission level is too low to be measured The emission levels of below 1 GHz are very lower than the limit and not show in test report. 2.

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LTE Band 38-5MHz							
Channal	Frequency	Spurious	Emission	Limeit (dDms)	D 1		
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result		
	5145	Vertical	-33.44				
	7717.5	V	-41.90	≤-25.00	Pass		
Low	10290	V	-42.96				
LOW	5145	Horizontal	-33.50				
	7717.5	Н	-40.59	≤-25.00	Pass		
	10290	Н	-43.57				
	5190	Vertical	-33.28	≤-25.00	Pass		
	7785	V	-41.79				
Mid	10380	V	-42.79				
iviiu	5190	Horizontal	-33.38				
	7785	Н	-40.38	≤-25.00	Pass		
	10380	Н	-43.45				
	5235	Vertical	-33.14				
	7852.5	V	-41.55	≤-25.00	Pass		
Lliab	10470	V	-42.55				
High	5235	Horizontal	-33.16				
	7852.5	Н	-40.25	≤-25.00	Pass		
	10470	Н	-43.37				

LTE Band 38-10MHz							
Channal	Frequency	Spurious	Emission	Lineit (dDne)	Dooult		
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result		
	5150	Vertical	-33.03				
	7725	V	-41.41	≤-25.00	Pass		
Low	10300	V	-42.48				
LOW	5150	Horizontal	-33.11				
	7725	Н	-40.13	≤-25.00	Pass		
	10300	Н	-43.23				
	5190	Vertical	-32.90		Pass		
	7785	V	-41.29	≤-25.00			
Mid	10380	V	-42.36				
IVIIU	5190	Horizontal	-33.00				
	7785	Н	-39.97	≤-25.00	Pass		
	10380	Н	-43.14				
	5230	Vertical	-32.78				
	7845	V	-41.14	≤-25.00	Pass		
Lliah	10460	V	-42.16				
High	5230	Horizontal	-32.80				
	7845	Н	-39.86	≤-25.00	Pass		
	10460	Н	-43.07				

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LTE Band 38-15MHz							
Ob a mad	Frequency	Spurious Emission		Limit (dDay)	5		
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result		
	5155	Vertical	-32.65				
	7732.5	V	-40.93	≤-25.00	Pass		
Low	10310	V	-42.09				
LOW	5155	Horizontal	-32.68				
	7732.5	Н	-39.73	≤-25.00	Pass		
	10310	Н	-42.91				
	5190	Vertical	-32.47	≤-25.00	Pass		
	7785	V	-40.78				
Mid	10380	V	-41.93				
iviid	5190	Horizontal	-32.54				
	7785	Н	-39.51	≤-25.00	Pass		
	10380	Н	-42.80				
	5225	Vertical	-32.31				
	7837.5	V	-40.58	≤-25.00	Pass		
High	10450	V	-41.67				
High	5225	Horizontal	-32.28				
	7837.5	Н	-39.36	≤-25.00	Pass		
	10450	Н	-42.71				

LTE Band 38-20MHz							
Channel	Frequency	Spurious	Emission	Limit (dDm)	Dogult		
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result		
	5160	Vertical	-32.22				
	7740	V	-40.46	≤-25.00	Pass		
Law	10320	V	-41.61				
Low	5160	Horizontal	-32.23				
	7740	Н	-39.26	≤-25.00	Pass		
	10320	Н	-42.60				
	5190	Vertical	-32.11		Pass		
	7785	V	-40.36	≤-25.00			
Mid	10380	V	-41.51				
IVIIU	5190	Horizontal	-32.14				
	7785	Н	-39.12	≤-25.00	Pass		
	10380	Н	-42.53				
	5220	Vertical	-32.01				
	7830	V	-40.24	≤-25.00	Pass		
Lliah	10440	V	-41.34				
High	5220	Horizontal	-31.98				
	7830	Н	-39.03	≤-25.00	Pass		
	10440	Н	-42.47				

Remark:

- 1.
- Remark"---" means that the emission level is too low to be measured The emission levels of below 1 GHz are very lower than the limit and not show in test report.

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LTE Band 41-5MHz							
Channal	Frequency	Spurious	Emission	Limeit (dDms)	D 1		
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result		
	5005	Vertical	-32.78				
	7507.5	V	-42.42	≤-25.00	Pass		
Low	10010	V	-43.18				
LOW	5005	Horizontal	-32.33				
	7507.5	Н	-41.38	≤-25.00	Pass		
	10010	Н	-42.07				
	5070	Vertical	-32.38	≤-25.00	Pass		
	7605	V	-42.06				
Mid	10140	V	-42.80				
Mid	5070	Horizontal	-32.00				
	7605	Н	-40.82	≤-25.00	Pass		
	10140	Н	-41.75				
	5135	Vertical	-31.96				
	7702.5	V	-41.34	≤-25.00	Pass		
Lliab	10270	V	-42.18				
High	5135	Horizontal	-31.39				
	7702.5	Н	-40.47	≤-25.00	Pass		
	10270	Н	-41.54				

LTE Band 41-10MHz						
Channel	Frequency (MHz)	Spurious Emission		L''(/ ID)	D II	
		Polarization	Level (dBm)	Limit (dBm)	Result	
Low	5010	Vertical	-31.62	≤-25.00	Pass	
	7515	V	-40.90			
	10020	V	-41.97			
	5010	Horizontal	-31.22	≤-25.00	Pass	
	7515	Н	-40.12			
	10020	Н	-41.13			
Mid	5070	Vertical	-31.32	≤-25.00	Pass	
	7605	V	-40.40			
	10140	V	-41.47			
	5070	Horizontal	-30.62	≤-25.00	Pass	
	7605	Н	-39.47			
	10140	Н	-40.79			
High	5130	Vertical	-30.83	≤-25.00	Pass	
	7695	V	-39.90			
	10260	V	-40.88			
	5130	Horizontal	-29.92	≤-25.00	Pass	
	7695	Н	-39.12			
	10260	Н	-40.40			

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LTE Band 41-15MHz						
Channel	Frequency (MHz)	Spurious Emission		Lineit (dDee)	D !!	
		Polarization	Level (dBm)	Limit (dBm)	Result	
	5015	Vertical	-30.41	≤-25.00	Pass	
Low	7522.5	V	-39.20			
	10030	V	-40.64			
LOW	5015	Horizontal	-29.54	≤-25.00	Pass	
	7522.5	Н	-38.70			
	10030	Н	-39.87			
	5070	Vertical	-29.83	≤-25.00	Pass	
Mid	7605	V	-38.70			
	10140	V	-40.12			
	5070	Horizontal	-29.08	≤-25.00	Pass	
	7605	Н	-37.99			
	10140	Н	-39.50			
	5125	Vertical	-29.31	≤-25.00	Pass	
	7687.5	V	-38.05			
High	10250	V	-39.26			
підп	5125	Horizontal	-28.23	≤-25.00	Pass	
	7687.5	Н	-37.51			
	10250	Н	-39.21			

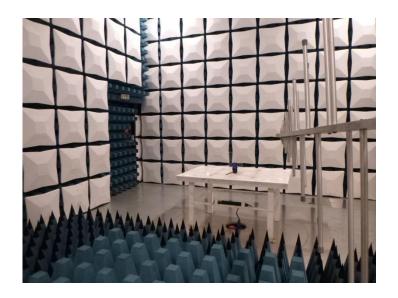
LTE Band 41-20MHz						
Channel	Frequency (MHz)	Spurious Emission		Lineit (dDas)	Danult	
		Polarization	Level (dBm)	Limit (dBm)	Result	
Low	5020	Vertical	-29.00	≤-25.00	Pass	
	7530	V	-37.65			
	10040	V	-39.07			
	5020	Horizontal	-28.08	≤-25.00	Pass	
	7530	Н	-37.19			
	10040	Н	-38.84			
Mid	5070	Vertical	-28.64	≤-25.00	Pass	
	7605	V	-37.33			
	10140	V	-38.74			
	5070	Horizontal	-27.79	≤-25.00	Pass	
	7605	Н	-36.74			
	10140	Н	-38.61			
High	5120	Vertical	-28.31	≤-25.00	Pass	
	7680	V	-36.92			
	10240	V	-38.20			
	5120	Horizontal	-27.25	≤-25.00	Pass	
	7680	Н	-36.44			
	10240	Н	-38.43			

Remark:

- Remark"---" means that the emission level is too low to be measured The emission levels of below 1 GHz are very lower than the limit and not show in test report.

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6. TEST SETUP PHOTOS OF THE EUT





7. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

Refere to the test report No.: CHTEW21070219

8. APPENDIX REPORT