



Report No.: FG182625E

FCC RADIO TEST REPORT

FCC ID : QYLEM9190F Equipment : WWAN Module

Brand Name : Getac Model Name : EM9190

Applicant : Getac Technology Corporation.

5F., Building A, No. 209, Sec.1, Nangang

Rd., Nangang Dist., Taipei City 11568, Taiwan, R.O.C.

Standard : FCC 47 CFR Part 2, and 90(S)

The product was received on Aug. 26, 2021 and testing was started from Sep. 17, 2021 and completed on Oct. 13, 2021. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

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Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

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History of this test report

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Report No.	Version	Description	Issued Date
FG182625E	01	Initial issue of report	Oct. 25, 2021
FG182625E	02	Revise remark description in section 2.1	Oct. 26, 2021

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Summary of Test Result

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Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046 Conducted Output Power §90.635 and Effective Radiated Power		Pass	-
-	- Peak-to-Average Ratio		-	See Note
-	§2.1049 §90.209	Occupied Bandwidth and 26dB Bandwidth	-	See Note
-	§2.1051 §90.691	Emission masks – In-band emissions	-	See Note
-	§2.1051 §90.691	Emission masks – Out of band emissions	-	See Note
-	\$2.1055 Frequency Stability for \$90.213 Temperature & Voltage		-	See Note
3.3	§2.1053 §90.691	Field Strength of Spurious Radiation	Pass	-

Note: The module (Model: EM9190) makes no difference after verifying output power, this report reuses test data from the module report.

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Yun Huang Report Producer: Lucy Wu

1 General Description

1.1 Feature of Equipment Under Test

WCDMA/LTE/5G NR, and GNSS.

Product Specification subjective to this standard						
Sample 1	EUT with Host 1					
Sample 2	EUT with Host 2					
	WWAN					
Antonno Tyno	<main>: PIFA Antenna</main>					
Antenna Type	<aux.>: PIFA Antenna</aux.>					
	GPS / Glonass / BDS / Galileo : PATCH Antenna					
Antenna Gain	<main>:</main> -0.21 dBi					
Antenna Gain	<aux.>:</aux.> -2.00 dBi					

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Remark: The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

The product was installed into Tablet PC (Brand Name: Getac, Model Name: F110, F110G6, F110-Ex, F110-631) during test, and the host information was recorded in the following table.

Host Information								
Host 1	Host with SKU A							
Host 2	Host with SKU B							

SKU	SKU A	SKU B		
CPU	i5-1135G7 (Non Vpro)	i7-1165G7 (Vpro)		
DDR	Kingston DDR4-3200 32GB	Kingston DDR4-3200 32GB		
SSD	512GB	1TB		
PANEL	Full HD AUO	Full HD AUO		
DIGITIZER	N/A	EMRright Digitizer		
OPTION BAY	2D Barcode Reader	RS232 + LAN		
Expansion Bay	Smart Card	Smart Card		
Right side option	NXP RFID(PN7462)	Finger Print		
WLAN/BT	Intel AX201	Intel AX201		
WWAN(4G)	EM9190	EM9190		
GPS/GNS	EM9190	EM9190		
Rear 8M Camera	Support	Support		
Webcam FHD	Not Support	Not Support		
IR Webcam	Support	Support		
USB3.2 Gen2 x 1 Type-A	Support	Support		
Type-C (thunder bolt)	Support	Support		
Audio/MIC	Support	Support		

1.2 Modification of EUT

No modifications are made to the EUT during all test items.

1.3 Testing Site

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory			
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978			
Test Site No.	Sporton Site No.			
rest site No.	TH03-HY			
Test Engineer	HaoEn Zhang			
Temperature	22.3~24.5℃			
Relative Humidity	52.3~54.1%			

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Test Site	Sporton International Inc. Wensan Laboratory				
	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist.,				
Test Site Location	Taoyuan City 333010, Taiwan (R.O.C.)				
rest site Location	TEL: +886-3-327-0868				
	FAX: +886-3-327-0855				
Test Site No.	Sporton Site No.				
rest site No.	03CH15-HY (TAF Code: 3786)				
Test Engineer	Leo Li, Mancy Chou and Bigshow Wang				
Temperature	22.5~24.5℃				
Relative Humidity	45~55%				
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory.				

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190 and TW3786

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1.4 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

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- FCC 47 CFR Part 2, 90
- ANSI / TIA-603-E
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- FCC KDB 414788 D01 Radiated Test Site v01r01
- Interim Guidance for Equipment Authorization of Devices with Channel Bandwidths Combined Across Two Contiguous Service Rule Allocations OET/Lab/EACB, June 6, 2013

Remark:

- All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.
- 3. The TAF code is not including all the FCC KDB listed without accreditation.

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2 Test Configuration of Equipment Under Test

2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level.

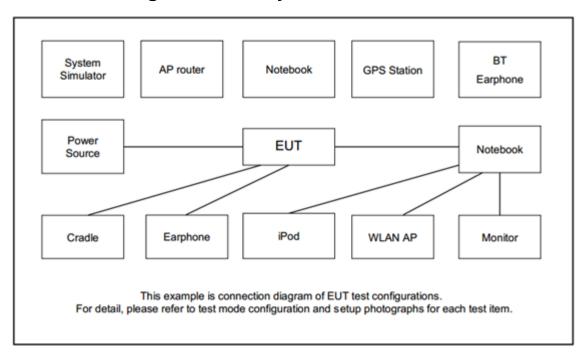
For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and find Z Plane as worst plane.

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Frequency range investigated for radiated emission is 30 MHz to 9000 MHz.

Conducted	D1		Ba	ndwic	th (M	łz)		Modulation			RB#			Test Channel		
Test Cases	Band	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	М	Н
Max. Output Power	26	V	v	>	v	v	ı	v	v	v	٧	v	v	٧	v	V
E.R.P.	26	٧	v	٧	v	v	•	v	v	v	Max. Power					
Radiated Spurious Emission	26			v			-	v			v			٧	v	v
Remark	1. The mark "v" means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. LTE Band26 transmit frequency for part22 rule is 824MHz-849MHz, for part90 rule is 814MHz-824MHz ERP over 15MHz bandwidth complies the ERP limit line of part22 rule, therefore ERP of the partial frequency spectrum which falls within part 22 also complies. 4. All the radiated test cases were performed with Adapter 1 and Sample 2.															

2.2 Connection Diagram of Test System



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2.3 Support Unit used in test configuration and system

Item	Equipment	uipment Brand Name Model No. FO		FCC ID	Data Cable	Power Cord	
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m	
2.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A	

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2.4 Frequency List of Low/Middle/High Channels

	LTE Band 26 Channel and Frequency List										
BW [MHz]	Channel/Frequency(MHz)	Middle	Highest								
45	Channel	26765	-	-							
15	Frequency	821.5	-	-							
40	Channel	-	26740	-							
10	Frequency	-	819	-							
5	Channel	26715	26740	26765							
5	Frequency	816.5	819	821.5							
3	Channel	26705	26740	26775							
3	Frequency	815.5	819	822.5							
1.4	Channel	26697	26740	26783							
1.4	Frequency	814.7	819	823.3							

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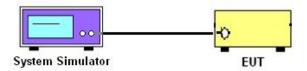
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.1.1 Test Setup

3.1.2 Conducted Output Power



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3.1.3 Test Result of Conducted Test

Please refer to Appendix A.

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3.2 Conducted Output Power Measurement and ERP Measurement

3.2.1 Description of the Conducted Output Power Measurement and ERP Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

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The ERP of mobile transmitters must not exceed 100 Watts for LTE Band 26.

According to KDB 412172 D01 Power Approach,

 $EIRP = P_T + G_T - L_C$, where

 P_T = transmitter output power in dBm

 G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.2.2 Test Procedures

- 1. The transmitter output port was connected to the system simulator.
- 2. Set EUT at maximum power through system simulator.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Measure and record the power level from the system simulator.

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3.3 Field Strength of Spurious Radiation Measurement

3.3.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. The power of any emission FCC Part 90.691 on any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

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The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43+10log₁₀(P[Watts]) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

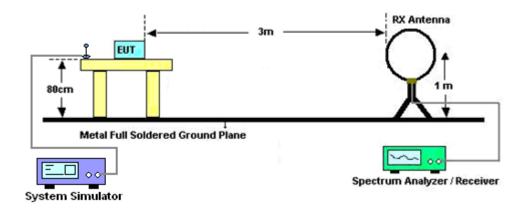
3.3.2 Test Procedures

- The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- 5. For testing below 1GHz, make the measurement with the spectrum analyzer's RBW = 100 kHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
- 6. For testing above 1GHz, make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
- 7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 9. Taking the record of output power at antenna port.
- 10. Repeat step 7 to step 8 for another polarization.
- 11. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 12. ERP (dBm) = EIRP 2.15
- 13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 14. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

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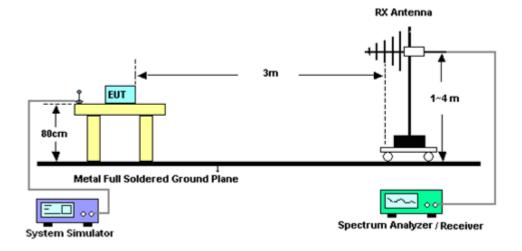
3.3.3 Test Setup

For radiated test below 30MHz



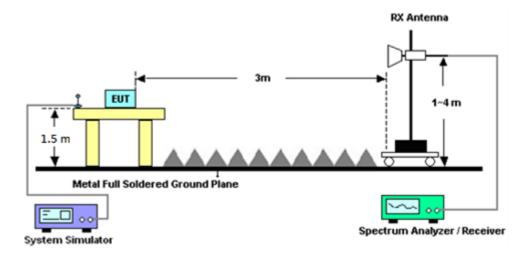
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For radiated test from 30MHz to 1GHz



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For radiated test above 1GHz



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3.3.4 Test Result of Field Strength of Spurious Radiated

Please refer to Appendix B.

Note:

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

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4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 04, 2021	Sep. 17, 2021~ Sep. 20, 2021	Jan. 03, 2022	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01 N-06	37059 & 01	30MHz~1GHz	Oct. 11, 2020	Sep. 17, 2021~ Sep. 20, 2021	Oct. 10, 2021	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL6111D&0 0800N1D01N -06	41912&05	30MHz to 1GHz	Feb. 08, 2021	Sep. 17, 2021~ Sep. 20, 2021	Feb. 07, 2022	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 28, 2020	Sep. 17, 2021~ Sep. 20, 2021	Dec. 27, 2021	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-01620	1-18GHz	Nov. 03, 2020	Sep. 17, 2021~ Sep. 20, 2021	Nov. 02, 2021	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1326	1GHz~18GHz	Nov. 03, 2020	Sep. 17, 2021~ Sep. 20, 2021	Nov. 02, 2021	Radiation (03CH15-HY)
Preamplifier	Jet-Power	JPA0118-55- 303	17100018000 55006	1GHz~18GHz	May 06, 2021	Sep. 17, 2021~ Sep. 20, 2021	May 05, 2022	Radiation (03CH15-HY)
Preamplifier	Keysight	83017A	MY53270195	1GHz~26.5GHz	Aug. 19, 2021	Sep. 17, 2021~ Sep. 20, 2021	Aug. 18, 2022	Radiation (03CH15-HY)
Spectrum Analyzer	Keysight	N9038A	MY54130085	20MHz~8.4GHz	Nov. 02, 2020	Sep. 17, 2021~ Sep. 20, 2021	Nov. 01, 2021	Radiation (03CH15-HY
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz~44GHz	Mar. 05, 2021	Sep. 17, 2021~ Sep. 20, 2021	Mar. 04, 2022	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Sep. 17, 2021~ Sep. 20, 2021	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Sep. 17, 2021~ Sep. 20, 2021	N/A	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24(k5)	RK-000451	N/A	N/A	Sep. 17, 2021~ Sep. 20, 2021	N/A	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104, 102E	MY36980/4, MY9838/4PE, 508405/2E	30MHz~18G	Nov. 16, 2020	Sep. 17, 2021~ Sep. 20, 2021	Nov. 15, 2021	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz-40GHz	Feb. 22, 2021	Sep. 17, 2021~ Sep. 20, 2021	Feb. 21, 2022	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz-40GHz	Feb. 22, 2021	Sep. 17, 2021~ Sep. 20, 2021	Feb. 21, 2022	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 11, 2021	Sep. 17, 2021~ Sep. 20, 2021	Mar. 10, 2022	Radiation (03CH15-HY)
Filter	Wainwright	WLK4-1000-1 530-8000-40 SS	SN12	1.53GHz Low Pass Filter	Sep. 14, 2021	Sep. 17, 2021~ Sep. 20, 2021	Sep. 13, 2022	Radiation (03CH15-HY)
Filter	Wainwright	WHKX12-935 -1000-15000- 40ST	SN1	1GHz High Pass Filter	Apr. 29, 2021	Sep. 17, 2021~ Sep. 20, 2021	Apr. 28, 2022	Radiation (03CH15-HY)
Filter	Wainwright	WHKX12-270 0-3000-1800 0-60ST	SN4	3GHz High Pass Filter	Sep. 15, 2021	Sep. 17, 2021~ Sep. 20, 2021	Sep. 14, 2022	Radiation (03CH15-HY)
Signal Generator	Anritsu	MG3694C	163401	0.1Hz~40GHz	Jan. 31, 2021	Sep. 17, 2021~ Sep. 20, 2021	Jan. 30, 2022	Radiation (03CH15-HY)
Radio Communication Analyzer	Anritsu	MT8821C	6272278356	N/A	Aug. 05, 2021	Oct. 08, 2021~ Oct. 13, 2021	Aug. 04, 2022	Conducted (TH03-HY)
Coupler	Warison	20dB 25W SMA Directional Coupler	#B	1-18GHz	Jan. 09, 2021	Oct. 08, 2021~ Oct. 13, 2021	Jan. 08, 2022	Conducted (TH03-HY)

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5 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of	2.98 dB
Confidence of 95% (U = 2Uc(y))	

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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.31 dB

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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power & ERP)

	LTE Band 26 Maximum Average Power [dBm] (GT - LC = -0.21 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)			
15	1	0		22.48	-	-					
15	1	37		22.27	-	-					
15	1	74		22.18	-	-					
15	36	0	QPSK	21.50	-	-	20.12	0.1028			
15	36	20		21.47	-	-					
15	36	39		21.45	-	-					
15	75	0		21.49	-	-					
15	1	0		21.72	-	-	19.36	0.0863			
15	1	37		21.62	-	-					
15	1	74		21.49	-	-					
15	36	0	16-QAM	20.47	-	-					
15	36	20		20.49	-	-					
15	36	39		20.40	-	-					
15	75	0		20.49	-	-					
15	1	0		20.16	-	-					
15	1	37		20.31	-	-					
15	1	74		20.22	-	-					
15	36	0	64-QAM	19.02	-	-	17.95	0.0624			
15	36	20		19.18	-	-					
15	36	39	-	19.17	-	-					
15	75	0		19.10	-	-					
Limit	P	ower < 100'	W		Result		Pa	ISS			



	LTE E	Band 26 M	aximum A	verage Pov	wer [dBm]	(GT - LC =	-0.21 dB)	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0		-	22.38	-		
10	1	25		-	22.26	-		
10	1	49		-	22.18	-		
10	25	0	QPSK	•	21.36	-	20.02	0.1005
10	25	12		-	21.34	-		
10	25	25		-	21.25	-		
10	50	0		-	21.35	-		
10	1	0		•	21.73	-		
10	1	25		-	21.64	-		
10	1	49		-	21.60	-	19.37	0.0865
10	25	0	16-QAM	-	20.33	-		
10	25	12		-	20.37	-		
10	25	25		-	20.29	-		
10	50	0		-	20.33	-		
10	1	0		-	20.60	-		
10	1	25		-	20.61	-		
10	1	49		-	20.48	-		
10	25	0	64-QAM	-	19.42	-	18.25	0.0668
10	25	12		-	19.36	-		
10	25	25		-	19.30	-		
10	50	0		-	19.38	-		
Limit	Р	ower < 100	W		Result		Pa	ISS



	LTE Band 26 Maximum Average Power [dBm] (GT - LC = -0.21 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)			
5	1	0		22.36	22.32	22.02					
5	1	12		22.30	22.25	22.03					
5	1	24		22.30	22.08	22.07					
5	12	0	QPSK	21.49	21.32	21.08	20.00	0.1000			
5	12	7		21.54	21.27	21.08					
5	12	13		21.44	21.16	21.00					
5	25	0		21.49	21.29	21.00					
5	1	0		21.83	21.73	21.44					
5	1	12		21.76	21.59	21.28					
5	1	24		21.68	21.59	21.16	19.47	0.0885			
5	12	0	16-QAM	20.40	20.25	20.11					
5	12	7		20.56	20.28	20.15					
5	12	13		20.47	20.28	20.00					
5	25	0		20.50	20.28	20.07					
5	1	0		20.03	20.52	20.36					
5	1	12		20.44	20.53	20.17					
5	1	24		20.34	20.39	20.29					
5	12	0	64-QAM	19.00	19.33	19.01	18.17	0.0656			
5	12	7		19.18	19.27	18.84					
5	12	13		19.19	19.29	18.53					
5	25	0		19.07	19.31	18.73					
Limit	P	ower < 100	W		Result		Pa	ISS			



	LTE E	Band 26 M	aximum A	verage Pov	wer [dBm]	(GT - LC =	-0.21 dB)	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0		22.33	22.30	22.06		
3	1	8		22.22	22.24	22.01		
3	1	14		22.23	22.00	22.07		
3	8	0	QPSK	21.47	21.32	21.01	19.97	0.0993
3	8	4		21.50	21.24	21.06		
3	8	7	-	21.41	21.07	21.05		
3	15	0		21.48	21.22	21.02		
3	1	0		21.83	21.65	21.40		
3	1	8		21.70	21.52	21.24		
3	1	14		21.68	21.57	21.12	19.47	0.0885
3	8	0	16-QAM	20.36	20.23	20.10		
3	8	4		20.51	20.20	20.10		
3	8	7		20.42	20.21	20.04		
3	15	0		20.41	20.22	20.08		
3	1	0		20.02	20.42	20.32		
3	1	8		20.43	20.51	20.07		
3	1	14		20.28	20.36	20.25		
3	8	0	64-QAM	19.38	19.28	19.00	18.15	0.0653
3	8	4		19.16	19.22	18.78		
3	8	7		19.15	19.28	18.49		
3	15	0		19.04	19.28	18.73		
Limit	P	ower < 100	W		Result		Pa	ISS



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	LTE Band 26 Maximum Average Power [dBm] (GT - LC = -0.21 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)			
1.4	1	0		22.40	22.21	22.11					
1.4	1	3		22.19	22.08	22.07					
1.4	1	5		22.14	22.00	22.00					
1.4	3	0	QPSK	22.46	22.17	22.05	20.10	0.1023			
1.4	3	1	-	22.23	22.07	22.06					
1.4	3	3		22.18	22.02	22.04					
1.4	6	0		21.43	21.24	21.07					
1.4	1	0		21.66	21.58	21.35		0.0863			
1.4	1	3	_	21.58	21.41	21.15	19.36				
1.4	1	5		21.45	21.27	21.03					
1.4	3	0	16-QAM	21.72	21.51	21.33					
1.4	3	1		21.53	21.46	21.17					
1.4	3	3		21.44	21.26	21.04					
1.4	6	0		20.46	20.24	20.08					
1.4	1	0		20.08	20.40	20.32					
1.4	1	3		20.29	20.31	20.03					
1.4	1	5		20.16	20.04	20.03					
1.4	3	0	64-QAM	20.06	20.42	20.32	18.06	0.0640			
1.4	3	1		20.25	20.35	20.08					
1.4	3	3		20.15	20.01	20.05					
1.4	6	0		19.00	19.26	19.10					
Limit	P	ower < 100'	W		Result		Pa	iss			

Appendix B. Test Results of Radiated Test

LTE Band 26

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	LTE Band 26 / 5MHz / QPSK											
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)			
	1629	-64.62	-13	-51.62	-76.54	-69.78	1.82	9.13	Н			
	2443	-60.84	-13	-47.84	-77.22	-66.93	2.23	10.47	Н			
	3257	-60.06	-13	-47.06	-78.89	-67.43	2.60	12.13	Н			
									Н			
									Н			
Lowest									Н			
Lowest	1629	-63.23	-13	-50.23	-75.6	-68.39	1.82	9.13	V			
	2443	-60.64	-13	-47.64	-77.45	-66.73	2.23	10.47	V			
	3257	-59.45	-13	-46.45	-78.7	-66.82	2.60	12.13	V			
									V			
									V			
									V			
	1634	-64.66	-13	-51.66	-76.63	-69.86	1.83	9.17	Н			
	2451	-61.24	-13	-48.24	-77.68	-67.36	2.24	10.51	Н			
	3267	-59.92	-13	-46.92	-78.72	-67.33	2.61	12.17	Н			
									Н			
									Н			
N4: al all a									Н			
Middle	1634	-63.38	-13	-50.38	-75.8	-68.58	1.83	9.17	V			
	2451	-60.78	-13	-47.78	-77.6	-66.90	2.24	10.51	V			
	3267	-59.22	-13	-46.22	-78.44	-66.63	2.61	12.17	V			
									V			
									V			
									V			

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		1			l	ı		ı	
	1639	-64.40	-13	-51.40	-76.39	-69.63	1.83	9.21	Н
	2458	-61.56	-13	-48.56	-78.05	-67.72	2.24	10.55	Н
	3277	-59.99	-13	-46.99	-78.76	-67.44	2.61	12.21	Н
									Н
									Н
									Н
Highest	1639	-63.89	-13	-50.89	-76.34	-69.12	1.83	9.21	V
	2458	-61.24	-13	-48.24	-78.06	-67.40	2.24	10.55	V
	3277	-59.57	-13	-46.57	-78.76	-67.02	2.61	12.21	V
									V
									V
									V

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Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

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