



Report No.: FG111323C

FCC RADIO TEST REPORT

FCC ID : QYLEM7511F6 Equipment : WWAN Module

Brand Name : Getac Model Name : EM7511

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, 90(R)

The product was received on Jan. 13, 2021 and testing was started from Mar. 08, 2021 and completed on Mar. 23, 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.

Approved by: Louis Wu

Louis Win

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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Report Version : 01

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History of this test report

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Report No.	Version	Description	Issued Date
FG111323C	01	Initial issue of report	Apr. 01, 2021

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Summary of Test Result

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Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
2.0	§2.1046	Conducted Output Power	Reporting only	-
3.2	§90.542 (a)(7)	Effective Radiated Power	Pass	-
-	-	Peak-to-Average Ratio	-	See Note
-	§2.1049	Occupied Bandwidth	-	See Note
-	§2.1053 §90.543 (e)(2)	Conducted Band Edge Measurement	-	See Note
-	§2.1051 §90.210 (n)	Emission Mask	-	See Note
-	§2.1053 §90.543 (e)(3)	Conducted Spurious Emission	-	See Note
-	§2.1055 §90.539 (e)	Frequency Stability Temperature & Voltage	-	See Note
\$2.1053 4.2 \$90.543 (e)(3) \$90.543 (f)		Radiated Spurious Emission	Pass	-

Note: The module (Model: EM7511) 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: Wii Chang Report Producer: Cindy Liu

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1 General Description

1.1 Product Feature of Equipment Under Test

WCDMA/LTE, and GNSS.

WODAN VELE, and Cived.						
Product Specification subjective to this standard						
Sample 1 EUT with Host 1						
Sample 2	EUT with Host 2					
	WWAN:					
Antenna Type	<main> PIFA Antenna</main>					
Antenna Type	<aux.> PIFA Antenna</aux.>					
	GPS / Glonass : PATCH Antenna					
Antenna Gain	LTE Band 14: -0.34 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 (Brand Name: Getac, Model Name: F110, F110G6, F110-Ex, F110-621) during test, and the host information was recorded in the following table.

Host Information							
Host 1	Host with SKU B						
Host 2	Host with SKU C						

SKU	SKU B	SKU C
CPU	i5-1135G7 (Non Vpro)	i7-1165G7 (Vpro)
DDR	Kingston DDR4-3200 16GB	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)	EM7511	EM7511
GPS/GNS	EM7511	EM7511
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

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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.	TH05-HY				
Test Engineer	Bryant Liu				
Temperature	20.3~23.6℃				
Relative Humidity	43.3~54.3%				

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Test Site	Sporton International Inc. Wensan Laboratory			
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855			
Test Site No.	Sporton Site No.			
Test Site No.	03CH12-HY (TAF Code: 3786)			
Test Engineer	Jack Cheng, Lance Chiang, Chuan Chu			
Temperature	22.3~26.1℃			
Relative Humidity	55~63%			
Remark	The Radiated Spurious Emission test item subcontracted to Sporton			
Remark	International Inc. Wensan Laboratory.			

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

FCC Designation No.: TW1190 and TW0007

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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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- + ANSI C63.26-2015
- FCC 47 CFR Part 2, Part 90(R)
- ANSI / TIA-603-E
- 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

Remark:

- 1. 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

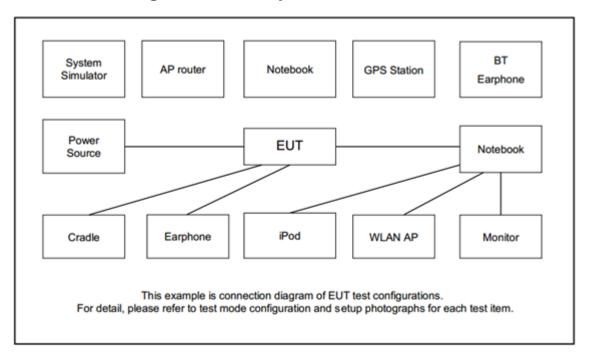
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

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For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.

Conducted	Dand		Ва	andwic	Ith (MH	lz)		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	14	-	•	v	v	ı	-	٧	v	v	٧	v	v	٧	v	v
E.R.P	14	-	-	v	٧	-	-	٧	v	v	Max. Power					
Radiated Spurious Emission	14	-	-	v		-	-	v			v			v	v	v
Remark	 The mark "v " means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. All the radiated test cases were performed with Adapter 1, Battery 2 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 Brand Nam		Model No.	FCC ID	Data Cable	Power Cord	
1.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A	
2.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m	

2.4 Frequency List of Low/Middle/High Channels

LTE Band 14 Channel and Frequency List									
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest					
10	Channel	-	23330	-					
10	Frequency	-	793	-					
E	Channel	23305	23330	23355					
5	Frequency	790.5	793	795.5					

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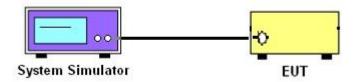
Conducted Test Items 3

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.1.1 Test Setup

3.1.2 Conducted Output Power



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

3.2.1 Description of the Conducted Output Power Measurement and ERP Measurement

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

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 14.

According to KDB 412172 D01 Power Approach,

 $EIRP = P_T + G_T - L_C$, ERP = EIRP - 2.15, 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 base station.
- 2. Set EUT at maximum power through base station.
- 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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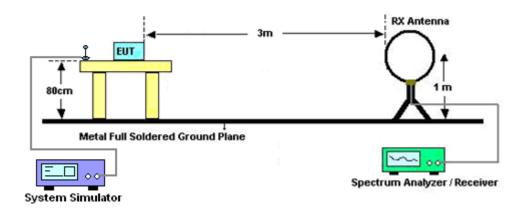
Radiated Test Items 4

4.1 Measuring Instruments

See list of measuring instruments of this test report.

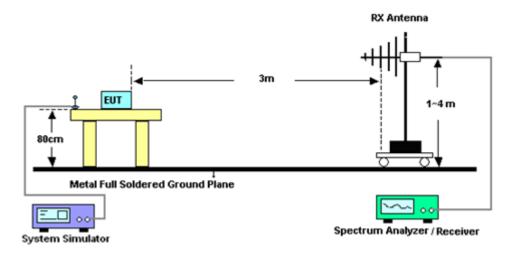
4.1.1 Test Setup

For radiated test below 30MHz



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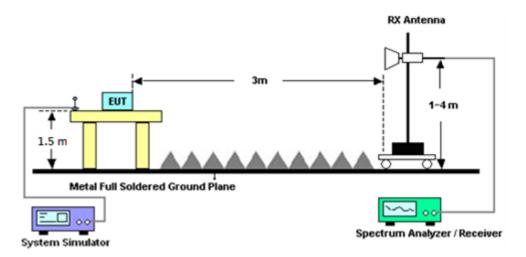
For radiated test from 30MHz to 1GHz



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For radiated test above 1GHz



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4.1.2 Test Result of Radiated Test

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 a comparison data 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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4.2 Radiated Spurious Emission

4.2.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. 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 + 10 log (P) dB.

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For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.2.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI / TIA-603-E Section 2.2.12.

- 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. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
- 6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 8. Taking the record of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polarization.
- 10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 11. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

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5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Radio Communication Analyzer	Anritsu	MT8821C	6261849015	LTE	Sep. 18, 2020	Mar. 22, 2021~ Mar. 23, 2021	Sep. 17, 2021	Conducted (TH05-HY)
Base Station (Measure)	Anritsu	MT8821C	6262002534 1	N/A	Oct. 06, 2020	Mar. 22, 2021~ Mar. 23, 2021	Oct. 05, 2021	Conducted (TH05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jul. 14, 2020	Mar. 08, 2021~ Mar. 12, 2021	Jul. 13, 2021	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01 N-06	40103 & 07	30MHz~1GHz	Apr. 29, 2020	Mar. 08, 2021~ Mar. 12, 2021	Apr. 28, 2021	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1328	1GHz~18GHz	Nov. 23, 2020	Mar. 08, 2021~ Mar. 12, 2021	Nov. 22, 2021	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120D	9120D-1241	1GHz ~ 18GHz	Jul. 15, 2020	Mar. 08, 2021~ Mar. 12, 2021	Jul. 14, 2021	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 25, 2020	Mar. 08, 2021~ Mar. 12, 2021	Mar. 24, 2021	Radiation (03CH12-HY)
Preamplifier	Keysight	83017A	MY57280120	1GHz~26.5GHz	Jul. 20, 2020	Mar. 08, 2021~ Mar. 12, 2021	Jul. 19, 2021	Radiation (03CH12-HY)
Preamplifier	E-INSTRUME NT TECH LTD.	ERA-100M-1 8G-56-01-A7 0	EC1900249	1GHz~18GHz	Dec. 05, 2020	Mar. 08, 2021~ Mar. 12, 2021	Dec. 04, 2021	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Jan. 15, 2021	Mar. 11, 2021~ Mar. 12, 2021	Jan. 14, 2022	Radiation (03CH12-HY)
Signal Generator	Anritsu	MG3694C	163401	0.1Hz~40GHz	Jan. 31, 2021	Mar. 08, 2021~ Mar. 12, 2021	Jan. 30, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 12, 2020	Mar. 08, 2021~ Mar. 10, 2021	Mar. 11, 2021	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 11, 2021	Mar. 11, 2021~ Mar. 12, 2021	Mar. 10, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 11, 2020	Mar. 08, 2021~ Mar. 12, 2021	Dec. 10, 2021	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Feb. 22, 2021	Mar. 08, 2021~ Mar. 12, 2021	Feb. 21, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz~40GHz	Feb. 22, 2021	Mar. 08, 2021~ Mar. 12, 2021	Feb. 21, 2022	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTM-303B	TP140349	N/A	Oct. 02, 2020	Mar. 08, 2021~ Mar. 12, 2021	Oct. 01, 2020	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Mar. 08, 2021~ Mar. 12, 2021	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500- B	N/A	1m~4m	N/A	Mar. 08, 2021~ Mar. 12, 2021	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Mar. 08, 2021~ Mar. 12, 2021	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Mar. 08, 2021~ Mar. 12, 2021	N/A	Radiation (03CH12-HY)

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6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of	2.07
Confidence of 95% (U = 2Uc(y))	3.07

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

Measuring Uncertainty for a Level of	2 24
Confidence of 95% (U = 2Uc(y))	3.21

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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power & ERP)

LTE Band 14 Maximum Average Power [dBm] (GT - LC = -0.34 dB)									
BW [MHz]	RB Size	RB Offset	Mod	Mod Lowest Middle Highest				ERP (W)	
10	1	0			23.74				
10	1	25			23.66				
10	1	49			23.73				
10	25	0	QPSK		22.74		21.25	0.1334	
10	25	12			22.73				
10	25	25			22.72				
10	50	0			22.71				
10	1	0			22.85				
10	1	25			22.94				
10	1	49			22.78				
10	25	0	16-QAM	-	21.62	-	20.45	0.1109	
10	25	12			21.66				
10	25	25			21.73				
10	50	0			21.72				
10	1	0			21.78				
10	1	25			21.68				
10	1	49			21.67				
10	25	0	64-QAM		20.69		19.29	0.0849	
10	25	12			20.83				
10	25	25			20.77				
10	50	0			20.71				
Limit		ERP < 3W			Result		Pa	ISS	

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LTE Band 14 Maximum Average Power [dBm] (GT - LC = -0.34 dB)										
BW [MHz]	RB Size	RB Size RB Offset Mod		Lowest	Middle	Highest	ERP (dBm)	ERP (W)		
5	1	0		23.67	23.71	23.72				
5	1	12		23.58	23.60	23.63				
5	1	24		23.68	23.65	23.73				
5	12	0	QPSK	22.71	22.73	22.73	21.24	0.1330		
5	12	7		22.69	22.70	22.64				
5	12	13		22.67	22.70	22.63				
5	25	0		22.67	22.67	22.70				
5	1	0		22.85	22.81	22.78	20.45	0.1109		
5	1	12	16-QAM	22.87	22.94	22.84				
5	1	24		22.72	22.76	22.69				
5	12	0		21.55	21.57	21.54				
5	12	7		21.62	21.65	21.62				
5	12	13		21.64	21.71	21.72				
5	25	0		21.64	21.68	21.64				
5	1	0		21.70	21.72	21.68		0.0838		
5	1	12		21.67	21.63	21.63				
5	1	24		21.61	21.66	21.59				
5	12	0	64-QAM	20.61	20.62	20.66	19.23			
5	12	7		20.75	20.80	20.79				
5	12	13		20.73	20.69	20.71				
5	25	0		20.64	20.67	20.66				
Limit		ERP < 3W			Result		Pass			

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Appendix B. Test Results of Radiated Test

LTE Band 14

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LTE Band 14 / 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)		
	1576	-46.24	-42.15	-4.09	-54.75	-51.58	0.90	8.39	Н		
	2368	-25.66	-13	-12.66	-39.24	-32.90	1.12	10.52	Н		
	3152	-52.32	-13	-39.32	-67.84	-60.54	1.30	11.66	Н		
									Н		
									Н		
Lowest									Н		
Lowest	1576	-50.56	-42.15	-8.41	-58.54	-55.90	0.90	8.39	V		
	2368	-27.88	-13	-14.88	-41.23	-35.12	1.12	10.52	V		
	3152	-50.69	-13	-37.69	-66.63	-58.91	1.30	11.66	V		
									V		
									V		
									V		
	1584	-45.81	-42.15	-3.66	-54.25	-51.18	0.90	8.42	Н		
	2376	-28.91	-13	-15.91	-42.44	-36.16	1.12	10.53	Н		
	3160	-53.00	-13	-40.00	-68.53	-61.24	1.30	11.68	Н		
									Н		
									Н		
Middle									Н		
Middle	1584	-50.86	-42.15	-8.71	-58.83	-56.23	0.90	8.42	V		
	2376	-28.48	-13	-15.48	-41.82	-35.73	1.12	10.53	V		
	3160	-50.42	-13	-37.42	-66.39	-58.66	1.30	11.68	V		
									V		
									V		
									V		

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	4504	45.04	40.45	0.40	F0.7F	50.00	0.00	0.40	1.1
	1584	-45.31	-42.15	-3.16	-53.75	-50.68	0.90	8.42	Н
	2384	-27.78	-13	-14.78	-41.26	-35.04	1.12	10.54	Н
	3176	-53.42	-13	-40.42	-68.98	-61.69	1.30	11.72	Н
									Н
									Н
									Η
Highest									Н
	1584	-50.89	-42.15	-8.74	-58.86	-56.26	0.90	8.42	V
	2384	-28.58	-13	-15.58	-41.93	-35.84	1.12	10.54	V
	3176	-50.94	-13	-37.94	-66.96	-59.21	1.30	11.72	V
									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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