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Report No.: FG851419-01B



FCC RADIO TEST REPORT

FCC ID : AZ489FT7104

Equipment : LEX L11 Mission Critical LTE Device

Brand Name : Motorola Solutions

Model Name : LEX L11n

Applicant : Motorola Solutions, Inc.

8000 West Sunrise Boulevard, Fort Lauderdale,

Florida 33322

Manufacturer : Motorola Solutions Penang

Motorola Solutions Malaysia Sd. Bhd., Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900,

Bayan Lepas, Penang, Malaysia

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

The product was received on Aug. 06, 2018 and testing was started from Aug. 15, 2018 and completed on Aug. 28, 2018. We, SPORTON INTERNATIONAL INC., 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this variant 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: Joseph Lin

TEL: 886-3-327-3456

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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

FAX: 886-3-328-4978 Issued Date : Sep. 14, 2018 Report Template No.: BU5-FGLTE90S Version 2.1 Report Version : 01

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History of this test report

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Report No.	Version	Description	Issued Date
FG851419-01B	01	Initial issue of report	Sep. 14, 2018

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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 §90.635	Conducted Output Power and Effective Radiated Power	Pass	-
3.3	-	Peak-to-Average Ratio	Reporting only	-
3.4	§2.1049 §90.209	Occupied Bandwidth and 26dB Bandwidth	Reporting only	-
3.5	§2.1051 §90.691	Emission masks – In-band emissions	Pass	-
3.6	§2.1051 §90.691	Emission masks – Out of band emissions	Pass	-
3.7	§2.1055 §90.213	Frequency Stability for Temperature & Voltage	Pass	-
3.8	§2.1053 §90.691	Field Strength of Spurious Radiation	Pass	Under limit 32.46 dB at 2448.000 MHz

Remark: This is a variant report by adding LTE Band 13, 17, 25, 26, and 41. All the test cases were performed on original report which can be referred to other report. Based on the original report, the test cases were verified.

Reviewed by: Wii Chang Report Producer: Polly Tsai

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1 General Description

1.1 Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n/ac, NFC, and GNSS.

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Product Specification subjective to this standard							
	WWAN: Monopole Antenna						
	WLAN: Monopole Antenna						
Antenna Type	Bluetooth: Monopole Antenna						
	GPS: Monopole Antenna						
	NFC: Loop Antenna						

Accessories Information									
AC Adapter	Brand Name	Motorola Solutions	Model Name	MU08-L050150-A1					
Battery 1	Brand Name	Motorola Solutions	Model Name	PMNN4546A					
Battery 2	Brand Name	Motorola Solutions	Model Name	PMNN4545A					
USB Cable	Brand Name	Motorola Solutions	Model Name	CB000756A01					

1.2 Modification of EUT

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

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1.3 Testing Site

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1190 and TW0007 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

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Test Site	SPORTON INTERNATIONAL INC.					
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, 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					

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

Test Site	SPORTON INTERNATIONAL INC.					
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855					
Test Site No.	Sporton Site No.					
rest one NO.	03CH15-HY					

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

1.4 Applied Standards

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

- 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
- 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.
- This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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

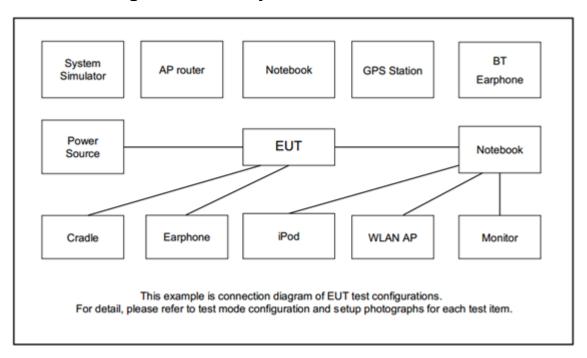
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Frequency range investigated for radiated emission is 30 MHz to 9000 MHz.

Conducted	David	Bandwidth (MHz)			Modulation		RB#			Test Channel					
Test Cases	Band	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	Н
Max. Output Power	26	V	>	v	v	v	ı	>	v	v	v	v	v	V	٧
Peak-to-Average Ratio	26					v	-	v	v	v		v	v	v	v
26dB and 99% Bandwidth	26	v	٧	v	v	v	-	v	v			v	v	v	v
Emission masks In-band emissions	26	v	>	v	v	v	-	٧	v	v		v	v		v
Emission masks – Out of band emissions	26	v	>	v	v	v	1	>	v	٧			v	٧	v
Frequency Stability	26	-	-		v	v	-	v	v			v		v	
E.R.P.	26	v	٧	v	v	v	-	v	v	v			v		
Radiated															
Spurious	26	Worst Case V													
Remark	The mark "v " means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported. The mark "-" means that this bandwidth is not supported. The mark "-" means that this bandwidth is not supported. The mark "-" means that this bandwidth is not supported. The mark "v " means that this configuration is chosen for testing The mark "v " means that this configuration is chosen for testing The mark "v " means that this configuration is chosen for testing The mark "v " means that this configuration is chosen for testing The mark "v " means that this configuration is chosen for testing The mark "v " means that this configuration is chosen for testing The mark "v " means that this configuration is chosen for testing The mark "-" means that this configuration is chosen for testing The mark "-" means that this configuration is chosen for testing The mark "-" means that this configuration is chosen for testing The mark "-" means that this configuration is chosen for testing The mark "-" means that this configuration is chosen for testing The mark "-" means that this configuration is chosen for testing The mark "-" means that this configuration is chosen for testing The mark "-" means that this configuration is chosen for testing The mark "-" means that this configuration is chosen for testing The mark "-" means that this configuration is chosen for testing The mark "-" means that this configuration is chosen for testing The mark "-" means that this configuration is chosen for testing The mark "-" means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported. The mark "-" means that this bandwidth is not supported. The mark "-" means that this bandwidth is not supported. The mark "-" means that this bandwidth is not supported. The mark "-" means that this bandwidth is not supported. The mark "-" means that this b														

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2.2 Connection Diagram of Test System



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2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 4.2 dB and a 10dB attenuator.

Example:

 $Offset(dB) = RF \ cable \ loss(dB) + attenuator \ factor(dB).$ = 4.2 + 10 = 14.2 (dB)

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2.5 Frequency List of Low/Middle/High Channels

LTE Band 26 Channel and Frequency List									
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest					
15	Channel	26765	-	-					
15	Frequency	821.5	-	-					
10	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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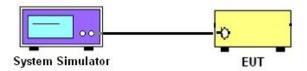
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

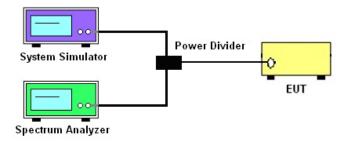
3.1.1 Test Setup

3.1.2 Conducted Output Power

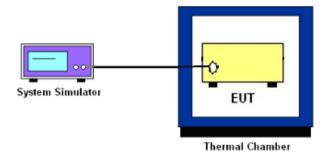


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3.1.3 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge, Emission Mask, Emissions Mask – Out Of Band Emissions, and Conducted Spurious Emission



3.1.4 Frequency Stability



3.1.5 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 7 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 Peak-to-Average Ratio

3.3.1 Description of the PAR Measurement

Reporting only

3.3.2 Test Procedures

- 1. The EUT was connected to spectrum and system simulator via a power divider.
- 2. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.

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- 3. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
- 4. Record the deviation as Peak to Average Ratio.

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3.4 99% Occupied Bandwidth and 26dB Bandwidth Measurement

3.4.1 Description of (Occupied) Bandwidth Limitations Measurement

The 99% occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

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The emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

3.4.2 Test Procedures

- 1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 2. The 26dB and 99% occupied bandwidth (BW) of the middle channel for the highest RF power with full RB sizes were measured.

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3.5 Emissions Mask Measurement

3.5.1 Description of Emissions Mask Measurement

Equipment used in this licensed to EA or non-EA systems shall comply with the emission mask provisions of FCC Part 90.691.(a)

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- (a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:
- (1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 $\log_{10}(f/6.1)$ decibels or 50 + 10 $\log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.
- (2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \text{Log}_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

3.5.2 Test Procedures

- 1. The EUT was connected to spectrum analyzer and base station via power divider.
- 2. The emissions mask of low and high channels for the highest RF powers were measured.
- 3. The measured RBW and the VBW set 3 times of RBW are then set in spectrum analyzer, and
- the RBW correction factor 10log (1% of OBW/measured RBW)(dB) was compensated, if required.
- 5. The test results were shown below plots with a correction offset factor including cable loss, insertion loss of power divider.

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3.6 Emissions Mask - Out Of Band Emissions Measurement

3.6.1 Description of Conducted Emissions Out of band emissions measurement

The power of any emission FCC Part 90.691 (a)(2) on any frequency removed from the assigned frequency by out of the authorized bandwidth at least 43 + 10 log (P) dB. It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

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3.6.2 Test Procedures

- 1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. The middle channel for the highest RF power within the transmitting frequency was measured.
- 4. The conducted spurious emission for the whole frequency range was taken.
- 5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
- 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 7. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

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3.7 Frequency Stability Measurement

3.7.1 Description of Frequency Stability Measurement

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

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3.7.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.7.3 Test Procedures for Temperature Variation

- 1. The EUT was set up in the thermal chamber and connected with the base station.
- 1. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized for three hours. Power was applied and the maximum change in frequency was recorded within one minute.
- 2. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.7.4 Test Procedures for Voltage Variation

- 1. The EUT was placed in a temperature chamber at 20±5° C and connected with the base station.
- The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
- 3. The variation in frequency was measured for the worst case.

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3.8 Field Strength of Spurious Radiation Measurement

3.8.1 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.

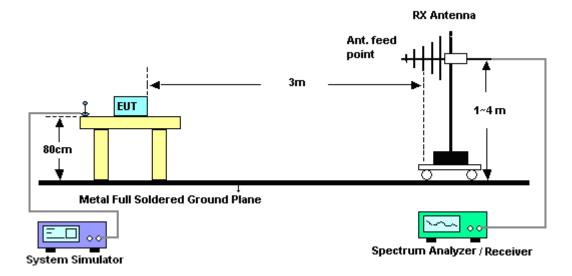
3.8.2 Test Procedures

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

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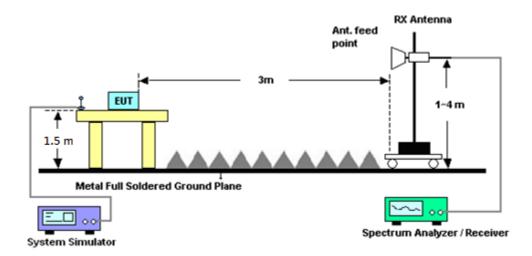
3.8.3 Test Setup

For radiated test from 30MHz to 1GHz



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For radiated test above 1GHz



3.8.4 Test Result of Field Strength of Spurious Radiated

Please refer to Appendix B.

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
LTE Base Station	Anritsu	MT8820C	620143282 1	GSM/GPRS /WCDMA/LTE	Oct. 13, 2017	Aug. 20, 2018~ Aug. 28, 2018	Oct. 12, 2018	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Nov. 07, 2017	Aug. 20, 2018~ Aug. 28, 2018	Nov. 06, 2018	Conducted (TH05-HY)
Temperature Chamber	ESPEC	SU-241	92003713	-30°C ~95°C	May 31, 2018	Aug. 20, 2018~ Aug. 28, 2018	May 30, 2019	Conducted (TH05-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890001	1V~20V 0.5A~5A	Oct. 06, 2017	Aug. 20, 2018~ Aug. 28, 2018	Oct. 05, 2018	Conducted (TH05-HY)
Coupler	Warison	1-18GHz 20dB 25WSMA Directional Coupler	#B	1G~18GHz	Dec. 04, 2017	Aug. 20, 2018~ Aug. 28, 2018	Dec. 03, 2018	Conducted (TH05-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 05, 2017	Aug. 15, 2018~ Aug. 16, 2018	Dec. 04, 2018	Radiation (03CH15-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Nov. 23, 2017	Aug. 15, 2018~ Aug. 16, 2018	Nov. 22, 2018	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170 576	18GHz ~ 40GHz	May 08, 2018	Aug. 15, 2018~ Aug. 16, 2018	May 07, 2019	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 26, 2017	Aug. 15, 2018~ Aug. 16, 2018	Dec. 25, 2018	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL6111D&0 0800N1D01N- 06	41912&05	30MHz to 1GHz	Jan. 10, 2018	Aug. 15, 2018~ Aug. 16, 2018	Jan. 09, 2019	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120D	9120D-162 0	1G~18GHz	Oct. 03, 2017	Aug. 15, 2018~ Aug. 16, 2018	Oct. 02, 2018	Radiation (03CH15-HY)
Preamplifier	Keysight	83017A	MY532701 95	1GHz~26.5GHz	Aug. 21, 2017	Aug. 15, 2018~ Aug. 16, 2018	Aug. 20, 2018	Radiation (03CH15-HY)
Spectrum Analyzer	Agilent	E4446A	MY501801 36	3Hz~44GHz	Apr. 25, 2018	Aug. 15, 2018~ Aug. 16, 2018	Apr. 24, 2019	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Aug. 15, 2018~ Aug. 16, 2018	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Aug. 15, 2018~ Aug. 16, 2018	N/A	Radiation (03CH15-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY572901 11	3Hz~26.5GHz	Nov. 02, 2017	Aug. 15, 2018~ Aug. 16, 2018	Nov. 01, 2018	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170 584	18GHz- 40GHz	Nov. 27, 2017	Aug. 15, 2018~ Aug. 16, 2018	Nov. 26, 2018	Radiation (03CH15-HY)
Signal Generator	Rohde & Schwarz	SMF100A	101107	100kHz~40GHz	May 21, 2018	Aug. 15, 2018~ Aug. 16, 2018	May 20, 2019	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-152 2	1G~18GHz	May 10, 2018	Aug. 15, 2018~ Aug. 16, 2018	May 09, 2019	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24 (K5)	ARD-SPR- 000185	N/A	N/A	Aug. 15, 2018~ Aug. 16, 2018	N/A	Radiation (03CH15-HY)

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5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of	3.37
Confidence of 95% (U = 2Uc(y))	3.37

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

Measuring Uncertainty for a Level of	3.67
Confidence of 95% (U = 2Uc(y))	3.07

<u>Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)</u>

Measuring Uncertainty for a Level of	4.03
Confidence of 95% (U = 2Uc(y))	4.03

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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

		LTE	Band 26 Ma	ximum Average Po	ower [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0		23.77	-	-
15	1	37		23.51	-	-
15	1	74		23.46	-	-
15	36	0	QPSK	22.60	-	-
15	36	20		22.58	-	-
15	36	39		22.53	-	-
15	75	0		22.59	-	-
15	1	0		22.84	-	-
15	1	37		22.78	-	-
15	1	74	16-QAM	22.71	-	-
15	36	0		21.60	-	-
15	36	20		21.60	-	-
15	36	39		21.51	-	-
15	75	0		21.56	-	-
10	1	0		-	23.67	-
10	1	25	QPSK	-	23.61	-
10	1	49		1	23.62	-
10	25	0		1	22.68	-
10	25	12		1	22.67	-
10	25	25		-	22.65	-
10	50	0		1	22.66	-
10	1	0		-	22.96	-
10	1	25		-	22.89	-
10	1	49		-	22.88	-
10	25	0	16-QAM	1	21.68	-
10	25	12		-	21.67	-
10	25	25		-	21.63	-
10	50	0		-	21.67	-



		LTE	Band 26 Ma	ximum Average Po	ower [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0		23.64	23.53	23.49
5	1	12		23.58	23.51	23.46
5	1	24		23.58	23.52	23.46
5	12	0	QPSK	22.61	22.53	22.48
5	12	7		22.64	22.55	22.50
5	12	13		22.61	22.56	22.48
5	25	0		22.62	22.52	22.50
5	1	0		22.83	22.80	22.71
5	1	12	16-QAM	22.82	22.82	22.71
5	1	24		22.82	22.78	22.68
5	12	0		21.62	21.55	21.50
5	12	7		21.65	21.56	21.52
5	12	13		21.61	21.55	21.50
5	25	0		21.60	21.53	21.49
3	1	0		23.70	23.63	23.57
3	1	8		23.68	23.60	23.57
3	1	14		23.69	23.59	23.53
3	8	0	QPSK	22.70	22.64	22.60
3	8	4		22.71	22.64	22.63
3	8	7		22.67	22.61	22.59
3	15	0		22.72	22.66	22.58
3	1	0		22.91	22.89	22.80
3	1	8		22.91	22.88	22.78
3	1	14		22.93	22.87	22.75
3	8	0	16-QAM	21.77	21.69	21.62
3	8	4		21.78	21.72	21.66
3	8	7		21.74	21.67	21.64
3	15	0		21.73	21.66	21.61

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	LTE Band 26 Maximum Average Power [dBm]									
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest				
1.4	1	0		23.30	23.24	23.15				
1.4	1	3		23.37	23.31	23.21				
1.4	1	5		23.30	23.24	23.11				
1.4	3	0	QPSK	23.37	23.28	23.20				
1.4	3	1		23.43	23.32	23.24				
1.4	3	3		23.37	23.29	23.21				
1.4	6	0		22.35	22.28	22.22				
1.4	1	0		22.55	22.51	22.40				
1.4	1	3		22.63	22.57	22.47				
1.4	1	5		22.57	22.50	22.40				
1.4	3	0	16-QAM	22.35	22.31	22.20				
1.4	3	1		22.39	22.33	22.23				
1.4	3	3		22.33	22.27	22.20				
1.4	6	0		21.42	21.34	21.28				

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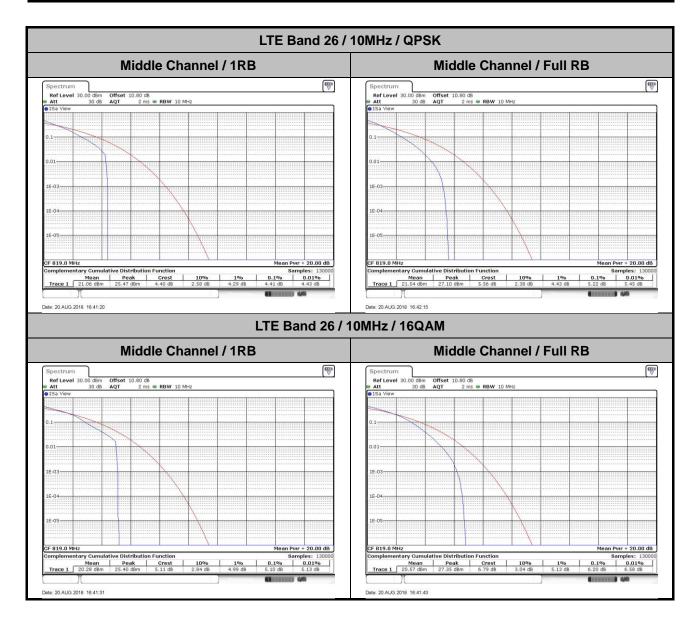


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LTE Band 26_Part 90S

Peak-to-Average Ratio

Mode						
Mod.	QP	SK	16C	Limit: 13dB		
RB Size	1RB	Full RB	1RB	1RB Full RB		
Lowest CH	-	-	-	-		
Middle CH	4.41	5.22	5.1	6.2	PASS	
Highest CH	-	-	-	-		



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26dB Bandwidth

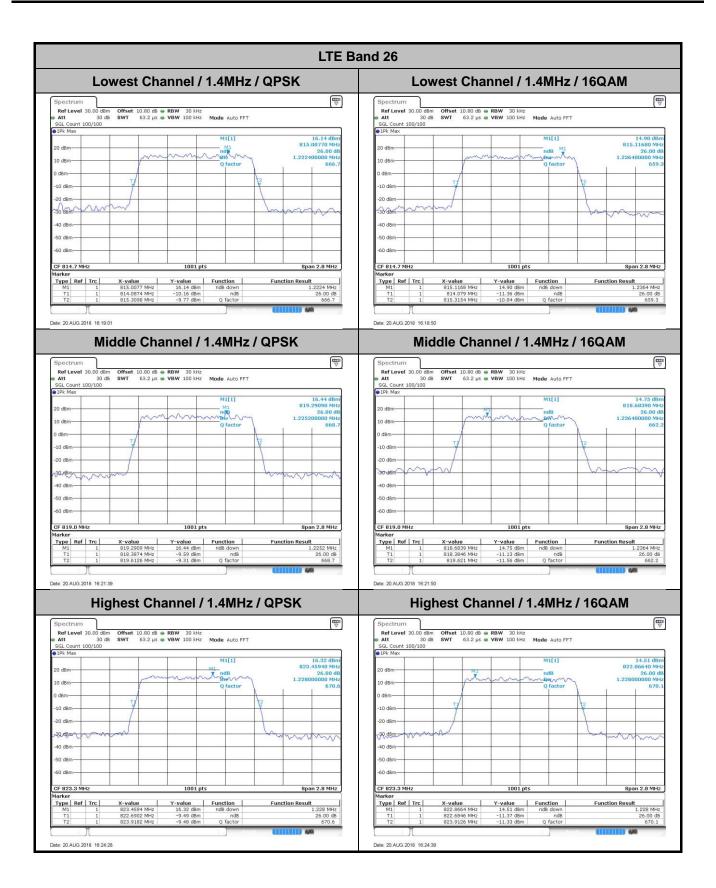
Mode	LTE Band 26 : 26dB BW(MHz)											
BW	1.4MHz 3MHz			lHz	5MHz 10MHz			15MHz		20MHz		
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.22	1.24	3.06	3.03	4.88	4.86	-	-	14.60	14.30	-	-
Middle CH	1.23	1.24	2.99	3.02	4.92	4.89	9.83	9.77	-	-	-	-
Highest CH	1.23	1.23	3.06	2.98	4.88	4.87	-	-	-	-	-	-

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LTE Band 26 Lowest Channel / 3MHz / QPSK Lowest Channel / 3MHz / 16QAM Ref Level 30.00 dbm Offset 10.80 db • RBW 100 kHz

Att 30 db • SWT 19 µs • VBW 300 kHz Mode Auto FFT

SGL Count 100/100 17.66 dBn 816.50700 MH 26.00 dB 3.062900000 MH 17.00 dBr 10 dBm Q factor 266 268. -10 dBm--50 dBm
 X-value
 Y-value
 Function

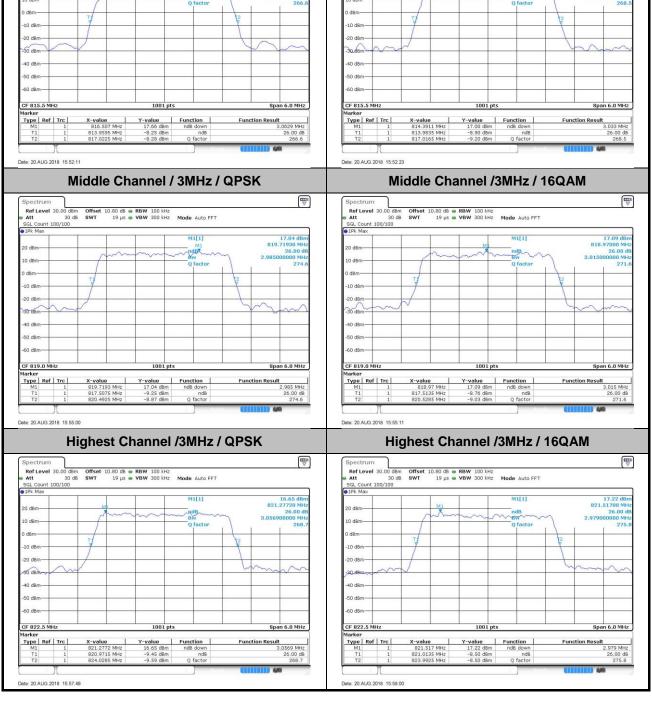
 814.3911 MHz
 17.00 dBm
 nd8 down

 813.39935 MHz
 -8.90 dBm
 nd8

 817.0165 MHz
 -9.20 dBm
 Q factor
 Type | Ref | Trc | Type | Ref | Trc |
 X-value
 Y-value
 Function

 816.507 MHz
 17.66 dBm
 ndB down
 Middle Channel / 3MHz / QPSK Middle Channel /3MHz / 16QAM 17.04 dBi 819.71930 MH 26.00 d 2.985000000 MH 274. 818.97000 MH 26.00 dl 3.015000000 MH 271. CF 819.0 MHz Span 6.0 MHz Type | Ref | Trc | Function m ndB down Function ndB down Date: 20.AUG 2018 15:55:00 Date: 20 AUG 2018 15:55:11 Highest Channel /3MHz / QPSK Highest Channel /3MHz / 16QAM Ref Level 30.00 d8m Offset 10.80 d8 @ RBW 100 kHz Att 30 d8 SWT 19 µs @ VBW 300 kHz Mode Auto FFT SGL count 100/100 16.65 dB 821.27720 M 17.22 dBn 821.51700 MH d8m--30 dBm

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Date: 20.AUG.2018 16:06:16

Report No.: FG851419-01B LTE Band 26 Lowest Channel / 5MHz / QPSK Lowest Channel / 5MHz / 16QAM Ref Level 30.00 dBm Offset 10.80 dB RBW 100 kHz

Att 30 dB SWT 19 μs VBW 300 kHz Mode Auto FFT

SGL Count 100/100

1Pk Max M1[1] 15.66 dBr 15.00 dBr 817.16900 MH 26.00 d 4.875000000 MH 10 dBm 167. 168. -10 dBm-50 d8m -50 dBm -60 dBm -60 dBm Function Result 4.855 MHz 26.00 dB 168.5
 X-value
 Y-value
 Function

 818.178 MHz
 15.66 dBm
 nd8 down

 814.052 MHz
 -10.25 dBm
 nd8

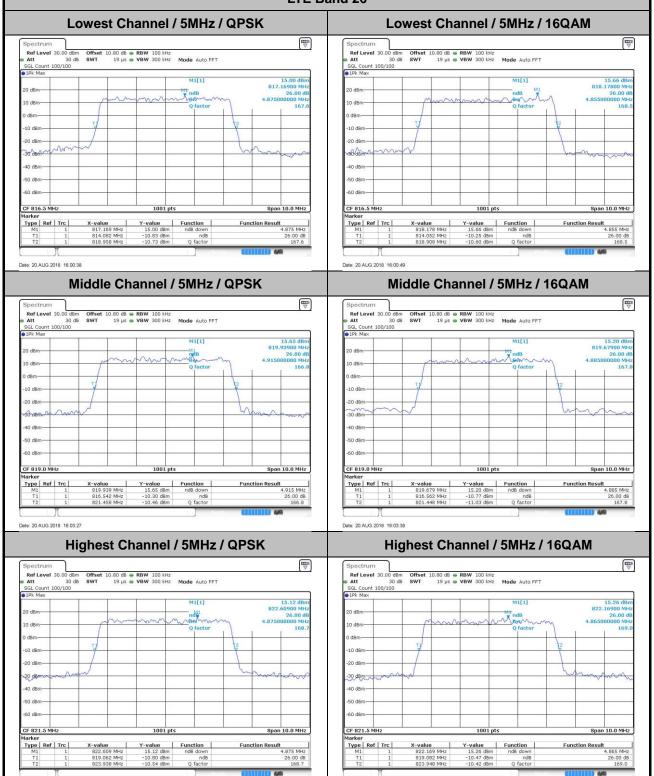
 818.908 MHz
 -10.60 dBm
 Q factor
 Type | Ref | Trc | Type | Ref | Trc |
 X-value
 Y-value
 Function

 817.169 MHz
 15.00 dBm
 ndB down
 Middle Channel / 5MHz / QPSK Middle Channel / 5MHz / 16QAM 15.65 dBr 819.93900 MH 26.00 d 4.915000000 MH 166. 15.20 dBn 819.67900 MH: 26.00 dE 4.885000000 MH: 167.6 -20 dBm 40 dBm CF 819.0 MH CF 819.0 MHz Span 10.0 MHz Span 10.0 MHz
 Y-value
 Function

 2
 15.65 dBm
 ndB down

 2
 -10.30 dBm
 ndB

 z
 -10.46 dBm
 Q factor
 Type | Ref | Trc | Function ndB down Date: 20.AUG 2018 16:03:27 Date: 20 AUG 2018 16:03:38 Highest Channel / 5MHz / QPSK Highest Channel / 5MHz / 16QAM 00 dBm Offse 30 dB SWT .80 dB **RBW** 100 kHz 19 µs **WBW** 300 kHz **Mode** Auto FFT .80 dB • RBW 100 kHz 19 µs • VBW 300 kHz Mode Auto FFT 15.12 dBn 822.60900 sav 15.26 dBm 822.16900 ML M1[1] M1[1] 822.16900 MH; 26.00 dE 4.865000000 MH; 169.0 20 dBm 26.00 d 4.875000000 MH d8m-



Date: 20.AUG.2018 16:06:27

LTE Band 26 Middle Channel / 10MHz / QPSK Middle Channel / 10MHz / 16QAM Ref Level 30.00 dBm Offset 10.80 dB RBW 300 kHz

Att 30 dB SWT 12.6 µs VBW 1 MHz Mode Auto FFT

SGL Count 100/100

SIM Max 17.18 dBn 820.4990 MH 26.00 dB 9.830000000 MH 17.73 dBr 10 dBm 84. Q factor -10 dBm--30,dBm 30 AB -50 dBm -60 dBm Type | Ref | Trc |
 X-value
 Y-value
 Function

 821.557 MHz
 17.73 dBm
 nd8 down

 814.105 MHz
 -8.55 dBm
 nd8

 823.875 MHz
 -7.87 dBm
 Q factor
 Lowest Channel / 15MHz / QPSK Lowest Channel / 15MHz / 16QAM Ref Level 30.00 dBm Offset 10.80 dB ● RBW 300 kHz
Att 30 dB SWT 12.6 μs ● VBW 1 MHz Mode Auto FFT
SGL Count 100/100
\$10°k Max 14.62 dBn 820.6910 MH: 26.00 dE 14.296000000 MH: 57.-Type | Ref | Trc | Function n ndB down

Date: 20.AUG.2018 16:12:06

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Date: 20.AUG.2018 16:11:54

Occupied Bandwidth

Mode		LTE Band 26 : 99%OBW(MHz)										
BW	1.41	MHz	3N	lHz	5N	5MHz 10MHz			15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.10	1.10	2.72	2.73	4.49	4.48	-	-	13.40	13.46	-	-
Middle CH	1.09	1.09	2.72	2.72	4.51	4.48	9.05	9.01	-	-	-	-
Highest CH	1.09	1.09	2.72	2.72	4.49	4.50	-	-	-	-	-	-

Report No. : FG851419-01B

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FAX: 886-3-328-4978

LTE Band 26 Lowest Channel / 1.4MHz / QPSK Lowest Channel / 1.4MHz / 16QAM Ref Level 30.00 dBm
Att 30 dB
SGL Count 100/100 monmon 10 dBm -10 dBm -10 dBm -20 dBm 400 BH -40 dBm 40 dBm--60 dBn -60 dBm CF 814.7 MHz CF 814.7 MHz 1001 pts Span 2.8 MHz Y-value 15.97 dBm 8.32 dBm 8.69 dBm X-value 815.1559 MHz 814.14615 MHz 815.24545 MHz X-value 814.3615 MHz 814.15455 MHz 815.25105 MHz Type | Ref | Trc | **Function Result** Type Ref Trc Middle Channel / 1.4MHz / QPSK Middle Channel / 1.4MHz / 16QAM 0 dBm Offset 10.80 dB • RBW 30 kHz 30 dB SWT 63.2 µs • VBW 100 kHz Mode Auto FFT 17.27 dBi 819.07830 MH 1.090909091 MH 14.33 dBm 818.79580 MHz 1.085314685 MHz dBm--20 dBr 30 d6m--50 dBm 50 dBm CF 819.0 MHz Span 2.8 MHz
 Marker
 Trc
 X-value
 Y-value
 Function

 M1
 1
 818.7958 MHz
 14.33 dbm
 34.7 dbm
 0cc 6w

 T1
 1
 818.46914 MHz
 8.47 dbm
 0cc 6w
 0cc 6w

 T2
 1
 819.54545 MHz
 7.83 dbm
 0cc 6w
 0cc 6w

 X-value
 Y-value
 Function

 819.0783 MHz
 17.27 dBm
 819.15175 MHz

 819.43175 MHz
 9.43 dBm
 Occ Bw

 819.54266 MHz
 8.55 dBm
 Type | Ref | Trc | Function Result **Function Result** 1.090909091 MHz 1.085314685 MHz Date: 20.AUG.2018 16:21:16 Date: 20.AUG.2018 16:21:28 Highest Channel / 1.4MHz / QPSK Highest Channel / 1.4MHz / 16QAM 16.31 dBr 823.07620 MH 1.090909091 MH MILII MILII morning -10 dBm -10 dBm-30 den-30 dBiny -50 dBm -60 dBm Span 2.8 MHz CF 823.3 MH Type | Ref | Trc |
 X-value
 Y-value
 Function

 823.0762 MHz
 16.31 dBm

 Type
 Ref
 Trc
 X-value
 Y-value
 Function

 M1
 1
 823.4483 MHz
 16.63 dBm
 Function Result 16.31 dBm 9.56 dBm Occ Bw 10.76 dBm 823.4483 MHz 822.75734 MHz 823.84266 MHz

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1.090909091 MHz

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9.38 dBm Occ Bw 9.72 dBm

1.085314685 MHz

CF 822.5 MH

Type | Ref | Trc |

Date: 20.AUG.2018 15:57:26

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Report No.: FG851419-01B LTE Band 26 Lowest Channel / 3MHz / QPSK Lowest Channel / 3MHz / 16QAM 17.64 dBn 815.48800 MH 2.727272727 MH M1[1] 10 dBm -10 dBm--10 dBm -20 dBm 40 dBm -50 dBm 50 dBm -60 dBm -60 dBm
 Marker
 Trc
 X-value
 Y-value
 Function

 M1
 1
 815.488 MHz
 17.64 dBm
 17.64 dBm

 T1
 1
 814.19396 MHz
 11.12 dBm
 Occ 8w

 T2
 1
 816.86663 MHz
 10.57 dBm
 Occ 8w

 X-value
 Y-value
 Function

 816.2253 MHz
 16.90 dBm

 814.14535 MHz
 10.94 dBm
 Occ Bw

 816.86663 MHz
 11.11 dBm
 Type | Ref | Trc | Middle Channel / 3MHz / QPSK Middle Channel / 3MHz / 16QAM -20 dBm -20 dBm--40 dBm 40 dBm -50 dBm 50 dBm CF 819.0 MH CF 819.0 MHz 1001 pts Span 6.0 MHz Type Ref Trc
 X-value
 Y-value
 Function

 819.7433 MHz
 17.80 dBm
 812.63337 MHz

 817.63337 MHz
 10.76 dBm
 Occ Bw

 820.35465 MHz
 11.11 dBm

 X-value
 Y-value

 820.1089 MHz
 16.72 dBm

 817.64535 MHz
 10.65 dBm

 820.36064 MHz
 10.72 dBm
 Function Result Function **Function Result** 2.721278721 MHz 2.715284715 MHz Date: 20.AUG.2018 15:54:37 Date: 20 AUG 2018 15:54:49 Highest Channel / 3MHz / QPSK Highest Channel / 3MHz / 16QAM Ref Level 30.00 dBm Offset 10.80 dB RBW 100 kHz Att 30 db SWT 19 µs VBW 300 kHz Mode Auto FFT SGL Count 100/100 00 dBm Offset 30 dB SWT 0.80 dB **© RBW** 100 kHz 19 µs **© VBW** 300 kHz **Mode** Auto FFT 17.99 dBn 823.10540 MH 2.721278721 MH 16.24 dBn 823.77670 MH: 2.721278721 MH: 20 dBm d8m--20 dBm -20 dBr 3D dBh 40 dBm 40 dBm -50 d8m 50 d8m

Span 6.0 MHz

2.721278721 MHz

 X-value
 Y-value
 Function
 Function Result

 822.1054 MHz
 17.99 dbm
 828.205 MHz
 10.20 dbm

 823.13936 MHz
 10.20 dbm
 0cc Bw
 2.721278

 823.86064 MHz
 11.62 dbm
 0cc Bw
 2.721278

CF 822.5 MHz

Date: 20.AUG.2018 15:57:38

| Marker | Trype | Ref | Trc | X-value | Y-value | Function | | M1 | 1 | 823.7767 MHz | 16.24 dbm | | T1 | 1 | 821.14535 MHz | 9.13 dbm | Occ Bw | T2 | 1 | 823.86663 MHz | 10.59 dbm | | |

Function Result

2.721278721 MHz

CF 821.5 MH

Date: 20.AUG.2018 16:05:53

 Marker
 Trc
 X-value
 Y-value
 Function
 Function Result

 M1
 1
 823.358 MHz
 14.98 dBm
 14.98 dBm
 11.00 mm
 11.00 mm</td

Report No.: FG851419-01B LTE Band 26 Lowest Channel / 5MHz / QPSK Lowest Channel / 5MHz / 16QAM 15.56 dBr 816.82000 MH 4.485514486 MH 15.22 dBn 818.15800 MH; 4.475524476 MH; 10 dBm -10 dBm-40 dBm 50 d8m -50 d8m--60 dBm -60 dBm
 Type
 Ref
 Trc
 X-value
 Y-value
 Function

 M1
 1
 818.158 MHz
 15.22 dBm
 Middle Channel / 5MHz / QPSK Middle Channel / 5MHz / 16QAM 15.61 dBr 819.89900 MH 4.505494505 MH Mr. -20 dBm-40 dBm -40 dBm -50 d8m CF 819.0 MH CF 819.0 MHz 1001 pts Span 10.0 MHz 1001 pts Span 10.0 MHz
 X-value
 Y-value
 Function

 819.899 MHz
 15.61 dBm

 816.74226 MHz
 10.35 dBm
 Occ Bw

 821.24775 MHz
 10.97 dBm

 X-value
 Y-value
 Function

 819,679 MHz
 15,51 dBm
 0cc Bw

 816,77223 MHz
 9,57 dBm
 0cc Bw

 821,24775 MHz
 9,52 dBm
 Type | Ref | Trc | Type Ref Trc **Function Result Function Result** 4.505494505 MHz 4.475524476 MHz Date: 20 AUG 2018 16:03:04 Date: 20 AUG 2018 16:03:16 Highest Channel / 5MHz / QPSK Highest Channel / 5MHz / 16QAM Ref Level 30.00 dBm Offset 10.80 dB RBW 100 kHz Att 30 db SWT 19 µs VBW 300 kHz Mode Auto FFT SGL Count 100/100 00 dBm Offset 30 dB SWT 1.80 dB **RBW** 100 kHz 19 µs **WBW** 300 kHz **Mode** Auto FFT 14.98 dBn 823.35800 MH 4.485514486 MH 14.77 dBm 819.49200 MHz 4.495504496 MHz 20 dBm d8m--10 dBm--20 dBr -30 d6m-40 dBm 40 dBm -50 d8m 50 d8m



CF 821.5 MHz

Date: 20.AUG.2018 16:06:04

4.495504496 MHz

Span 10.0 MHz

4.485514486 MHz

LTE Band 26 Middle Channel / 10MHz / QPSK Middle Channel / 10MHz / 16QAM
 Ref Level
 30.00 dRm
 Offset
 10.80 dB
 RBW
 300 kHz

 Att
 30 dB
 SWT
 12.6 µs
 VBW
 1 MHz
 Mode
 Auto FFT

 SGL Count 100/100
 100/100
 100/100
 100/100
 100/100
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 17.18 dBr 817.3820 MH 9.050949051 MH 15.91 dBr 10 dBm -10 dBm--30,08h -30/dBm 40 dBm 50 d8m -50 dBm -60 dBm
 X-value
 Y-value
 Function

 817.382 MHz
 17.18 dBm

 814.5045 MHz
 10.00 dBm
 Occ Bw

 823.5554 MHz
 11.35 dBm

 X-value
 Y-value
 Function

 820.499 MHz
 15.91 dBm
 15.91 dBm

 814.4845 MHz
 10.04 dBm
 Occ Bw

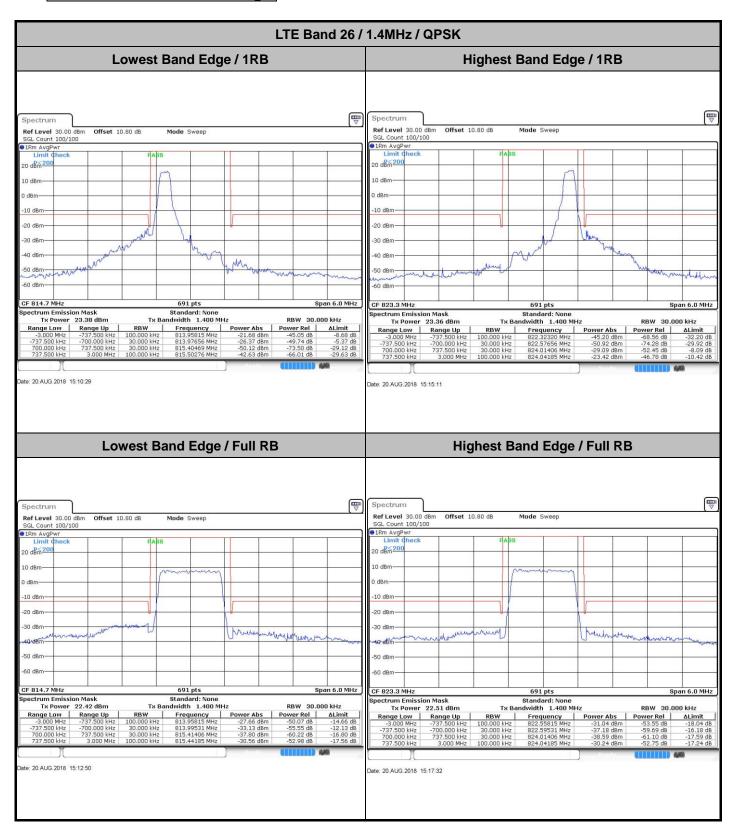
 823.4955 MHz
 9.45 dBm
 Occ Bw
 Type | Ref | Trc | Type | Ref | Trc | 9.010989011 MHz Date: 20.AUG.2018 16:08:42 Date: 20.AUG.2018 16:08:54 LTE Band 26 Lowest Channel / 15MHz / 16QAM Lowest Channel / 15MHz / QPSK 10 dBm-20 dBm mound 50 dBm-50 d8m-CF 821.5 MHz Span 30.0 MHz 1001 pts X-value 223 898 MHz X-value 823.688 MHz 814.8167 MHz 828.2133 MHz Type | Ref | Trc | Type | Ref | Trc | Y-value Function Function Result Y-value Function Function Result Occ Bw 15.77 dBm 10.09 dBm Occ Bw 11.02 dBm 13.396603397 MHz 13.456543457 MHz 1111 Date: 20.AUG.2018 16:11:31

Report No.: FG851419-01B

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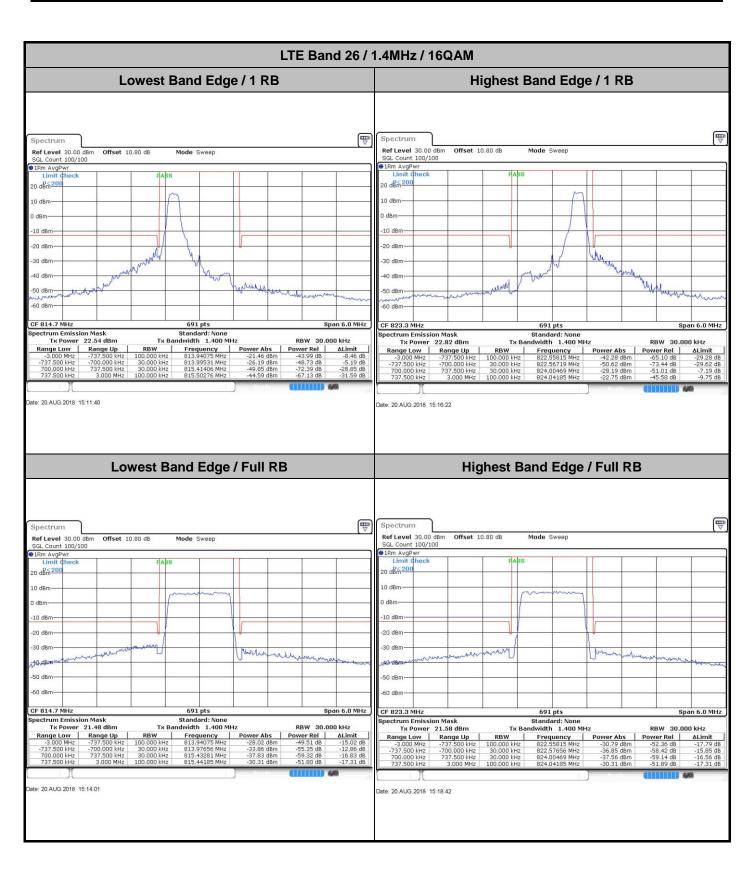
Conducted Band Edge



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