



FCC RADIO TEST REPORT

FCC ID : RI7FN990A40 **Equipment** : 5G NR Module

Brand Name

: FN990A40 Model Name **Marketing Name** : FN990A40

Applicant : Telit Communications S.p.A.

Viale Stazione di Prosecco 5/b, Trieste 34010, Italy

Manufacturer : Telit Communications S.p.A.

Viale Stazione di Prosecco 5/b, Trieste 34010, Italy

Standard : FCC 47 CFR Part 2, 90(R)

The product was received on Jul. 19, 2022 and testing was performed from Jul. 29, 2022 to Nov. 23, 2022. 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 report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

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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Report Template No.: BU5-FGLTE90R Version 2.4

: 01

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History of this test report

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Report No.	Version	Description	Issue Date
FG270608D	01	Initial issue of report	Dec. 01, 2022

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Summary of Test Result

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Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
2.2	§2.1046	Conducted Output Power	Reporting only	-
3.2	§90.542 (a)(7)	Effective Radiated Power	Pass	-
3.3	-	Peak-to-Average Ratio	Reporting only	-
3.4	§2.1049	Occupied Bandwidth	Reporting only	-
3.5	§2.1053 §90.543 (e)(2)	Conducted Band Edge Measurement	Pass	-
3.6	§2.1051 §90.210 (n)	Emission Mask	Pass	-
3.7	§2.1053 §90.543 (e)(3)	Conducted Spurious Emission	Pass	-
3.8	§2.1055 §90.539 (e)	Frequency Stability Temperature & Voltage	Pass	-
4.2	§2.1053 §90.543 (e)(3) §90.543 (f)	Radiated Spurious Emission	Pass	17.89 dB under the limit at 1586.000 MHz

Declaration of Conformity:

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
 It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
- 2. The measurement uncertainty please refer to report "Uncertainty of Evaluation".

Comments and Explanations:

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Avis Chuang Report Producer: Michelle Chen

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1 General Description

1.1 Product Feature of Equipment Under Test

WCDMA/LTE/5G NR, and GNSS

Product Feature							
Antenna Type	WWAN: Monopole Antenna GPS/Glonass/BDS/Galileo/SBAS: Monopole Antenna						
Antenna Gain	3.90 dBi						

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

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			
	No.52, Huaya 1st Rd., Guishan Dist.,			
Test Site Location	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	George Chen			
Temperature (°C)	22.8~24.5			
Relative Humidity (%)	51~58			

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.	03CH13-HY (TAF Code: 3786)				
Test Engineer	Rain Lee, Jacky Hong and Mancy Chou				
Temperature (°C)	20~25				
Relative Humidity (%)	50~60				
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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- + 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.

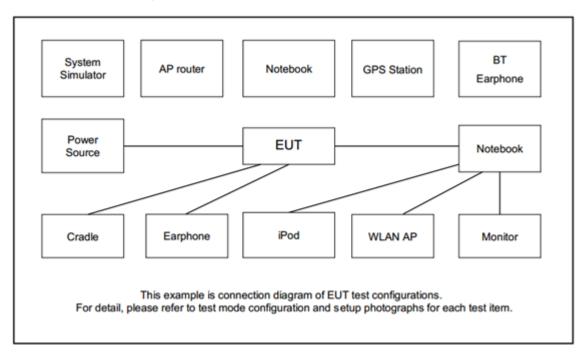
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For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in two antenna polarization (Horizontal and Vertical), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and only the worst case emissions were reported in this report.

Conducted			Ва	andwid	Ith (MF	łz)			Modu	ılation			RB#		Test	t Chai	nnel
Test Cases	Band	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	Н
Max. Output Power	14	-	-	v	v	-	-	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	14	-	1		v	-	-	٧	v	v	v			٧		٧	
26dB and 99% Bandwidth	14	-	1	٧	v	-	1	>	v	v	v			>		>	
Conducted Band Edge	14	-	1	v	v	ı	ı	٧	v	v	v	v		٧	>		٧
Emission Mask	14	-	•	v	v	-	-	٧	v	v	v	v		٧	٧	٧	>
Conducted Spurious Emission	14	-	-	v	v	-	-	v				v			v	v	٧
Frequency Stability	14	-	1		v	-	1	>						>		>	
E.R.P	14	-	1	v	v	-	-	٧	v	v	v		I	Мах.	Powe	r	
Radiated Spurious Emission	14	Worst Case						٧	٧	>							
Remark	1. The mark "v" means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. 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 emissi are reported. 4. One representative bandwidth is selected to perform PAR and frequency stability.																

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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	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	Anritsu	MT8821C	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 EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.5 dB and 10dB attenuator.

Example:

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.5 + 10 = 14.5 (dB)

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2.5 Frequency List of Low/Middle/High Channels

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

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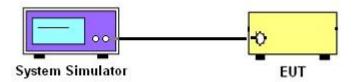
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

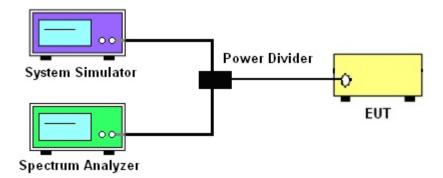
3.1.1 Test Setup

3.1.2 Conducted Output Power

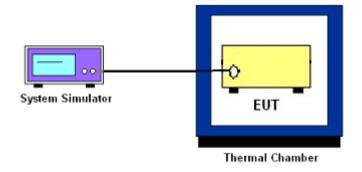


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3.1.3 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge, Emission Mask, and Conducted Spurious Emission



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

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.

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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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3.3 Peak-to-Average Ratio

3.3.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

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3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.6

- 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.
- 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 Occupied Bandwidth

3.4.1 Description of Occupied Bandwidth Measurement

The 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 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.4.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.4.3 (26dB) and Section 5.4.4 (99OB)

- 1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 2. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
- 3. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
- 4. Set the detection mode to peak, and the trace mode to max hold.
- 5. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace. (this is the reference value)
- 6. Determine the "-26 dB down amplitude" as equal to (Reference Value X).
- 7. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the "-X dB down amplitude" determined in step 6. If a marker is below this "-X dB down amplitude" value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
- 8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

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3.5 Conducted Band Edge

3.5.1 Description of Conducted Band Edge Measurement

90.543(e)

On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 76 + 10 log
 (P) dB in a 6.25 kHz band segment, for base and fixed stations.

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- (2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.
- (3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.

3.5.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

- 1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 2. The band edges of low and high channels for the highest RF powers were measured.
- 3. Set RBW >= 1% EBW in the 100kHz band immediately outside and adjacent to the band edge.
- 4. Beyond the 100kHz band from the band edge, RBW=100kHz was used.
- 5. Set spectrum analyzer with RMS detector.
- 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 7. Checked that all the results comply with the emission limit line.

The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

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3.6 Emission Mask

3.6.1 Description of Emissions Mask Measurement

Transmitters designed must meet the emission mask comply with the emission mask provisions of FCC Part 90.210(n).

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3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.0.

- 1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 2. The power of the modulated signal was measured on a spectrum analyzer using an RMS and 10 second sweep time in order to maximize the level.
- 3. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

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3.7 Conducted Spurious Emission

3.7.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

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It is measured by means of a calibrated spectrum analyzer and scanned from 30MHz up to a frequency including its 10th harmonic.

3.7.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

- 1. The EUT was connected to spectrum analyzer and base station via 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.
- 6. Set spectrum analyzer with RMS detector.
- 7. Taking the record of maximum spurious emission.
- 8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 9. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

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3.8 Frequency Stability

3.8.1 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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3.8.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

- 1. The EUT was set up in the thermal chamber and connected with the base station.
- 2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
- 3. 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.

3.8.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

- 1. The EUT was placed in a temperature chamber at 20±5° C and connected with the base station.
- 2. The power supply voltage to the EUT was varied from 85% 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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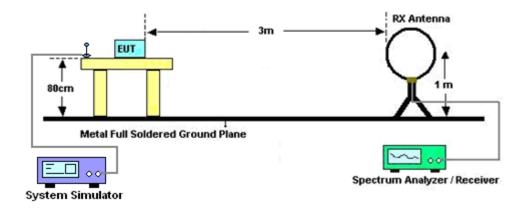
4 Radiated Test Items

4.1 Measuring Instruments

See list of measuring instruments of this test report.

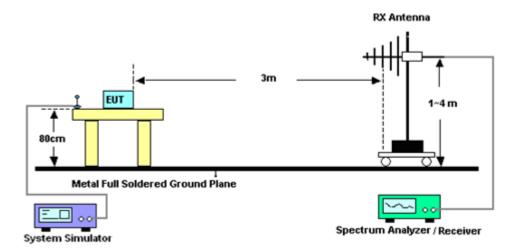
4.1.1 Test Setup

For radiated test below 30MHz



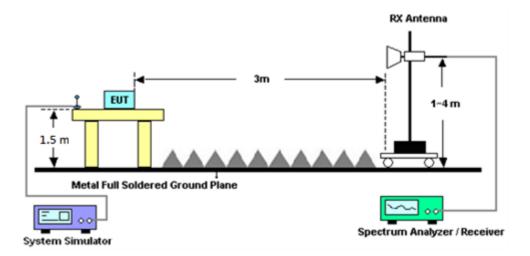
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For radiated test from 30MHz to 1GHz



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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 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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4.2 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
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	May 13, 2022	Jul. 29, 2022~ Aug. 02, 2022	May 12, 2023	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Feb. 21, 2022	Jul. 29, 2022~ Aug. 02, 2022	Feb. 20, 2023	Radiation (03CH13-HY)
Amplifier	SONOMA	310N	187282	9kHz~1GHz	Dec. 15, 2021	Jul. 29, 2022~ Aug. 02, 2022	Dec. 14, 2022	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	40103 & 07	30MHz~1GHz	Apr. 24, 2022	Jul. 29, 2022~ Aug. 02, 2022	Apr. 23, 2023	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	41912 & 05	30MHz~1GHz	Feb. 06, 2022	Jul. 29, 2022~ Aug. 02, 2022	Feb. 05, 2023	Radiation (03CH13-HY)
Hygrometer	TECPEL	DTM-303B	TP200889	N/A	Sep. 30, 2021	Jul. 29, 2022~ Aug. 02, 2022	Sep. 29, 2022	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-0010180 0-30-10P	1590074	1GHz~18GHz	May 17, 2022	Jul. 29, 2022~ Aug. 02, 2022	May 16, 2023	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY53270147	1GHz~26.5GHz	Oct. 26, 2021	Jul. 29, 2022~ Aug. 02, 2022	Oct. 25, 2022	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY55370526	10Hz~44GHz	Mar. 18, 2022	Jul. 29, 2022~ Aug. 02, 2022	Mar. 17, 2023	Radiation (03CH13-HY)
Filter	Wainwright	WLK4-1000-1530- 8000-40SS	SN12	1.53GHz Low Pass Filter	Sep. 14, 2021	Jul. 29, 2022~ Aug. 02, 2022	Sep. 13, 2022	Radiation (03CH13-HY)
Filter	Wainwright	WHKX12-1080-12 00-15000-60SS	SN3	1.2GHz High Pass Filter	Jun. 30, 2022	Jul. 29, 2022~ Aug. 02, 2022	Jun. 29, 2023	Radiation (03CH13-HY)
Filter	Wainwright	WHKX12-2700-30 00-18000-60SS	SN2	3GHz High Pass Filter	Jul. 12, 2022	Jul. 29, 2022~ Aug. 02, 2022	Jul. 11, 2023	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0030/126E	30MHz~18GHz	Feb. 09, 2022	Jul. 29, 2022~ Aug. 02, 2022	Feb. 08, 2023	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	804793/4	30MHz~18GHz	Feb. 09, 2022	Jul. 29, 2022~ Aug. 02, 2022	Feb. 08, 2023	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804011/2,8040 12/2	18GHz~40GHz	Jan. 04, 2022	Jul. 29, 2022~ Aug. 02, 2022	Jan. 03, 2023	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24961/4	30MHz~18GHz	Feb. 09, 2022	Jul. 29, 2022~ Aug. 02, 2022	Feb. 08, 2023	Radiation (03CH13-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Jul. 29, 2022~ Aug. 02, 2022	N/A	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Jul. 29, 2022~ Aug. 02, 2022	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Jul. 29, 2022~ Aug. 02, 2022	N/A	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-02114	1-18GHz	Aug. 04, 2021	Jul. 29, 2022~ Aug. 02, 2022	Aug. 03, 2022	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1212	1GHz~18GHz	Mar. 10, 2022	Jul. 29, 2022~ Aug. 02, 2022	Mar. 09, 2023	Radiation (03CH13-HY)

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Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration	Test Date	Due Date	Remark
Radio Communication Analyzer	Anritsu	MT8821C	6262025280	LTE FDD/TDD LTE-2CC DLCA/ULCA	Oct. 29, 2021	Aug. 13, 2022~ Oct. 27, 2022	Oct. 28, 2022	Conducted (TH03-HY)
Radio Communication Analyzer	Anritsu	MT8821C	6262025353	LTE FDD/TDD LTE-2CC DLCA/ULCA	Oct. 13, 2022	Oct. 28, 2022~ Nov. 23, 2022	Oct. 12, 2023	Conducted (TH03-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101908	10Hz~40GHz	Oct. 01, 2022	Aug. 13, 2022~ Sep. 26, 2022	Sep. 30, 2022	Conducted (TH03-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101908	10Hz~40GHz	Sep. 27, 2022	Sep. 27, 2022~ Nov. 23, 2022	Sep. 26, 2023	Conducted (TH03-HY)
Thermal Chamber	ESPEC	SH-641	92013720	-40°C ~90°C	Sep. 09, 2021	Aug. 13, 2022~ Sep. 07, 2022	Sep. 08, 2022	Conducted (TH03-HY)
Thermal Chamber	ESPEC	SH-641	92013720	-40°C ~90°C	Sep. 07, 2022	Sep. 08, 2022~ Nov. 23, 2022	Sep. 06, 2023	Conducted (TH03-HY)
DC Power Supply	GW Instek	GPP-2323	GES906037	0V~64V;0A~6A	Jan. 06, 2022	Aug. 13, 2022~ Nov. 23, 2022	Jan. 05, 2023	Conducted (TH03-HY)
Coupler	Warison	20dB 25W SMA Directional Coupler	#B	1-18GHz	Jan. 07, 2022	Aug. 13, 2022~ Nov. 23, 2022	Jan. 06, 2023	Conducted (TH03-HY)

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6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.40 dB

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<u>Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)</u>

Measuring Uncertainty for a Level of	3.81 dB
Confidence of 95% (U = 2Uc(y))	3.61 UB

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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power & ERP/EIRP)

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	LTE Band 14 Maximum Average Power [dBm] (GT - LC = 3.9 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)			
10	1	0			23.00						
10	1	25			22.89						
10	1	49			22.84						
10	25	0	QPSK		21.92		24.75	0.2985			
10	25	12			21.88						
10	25	25			21.91						
10	50	0			21.85						
10	1	0			22.32						
10	1	25			22.30						
10	1	49			22.26						
10	25	0	16-QAM		20.89		24.07	0.2553			
10	25	12			20.90						
10	25	25			20.95						
10	50	0		_	20.87	_					
10	1	0			21.13						
10	1	25			21.14						
10	1	49			21.06						
10	25	0	64-QAM		19.90		22.89	0.1945			
10	25	12			19.90						
10	25	25			19.94						
10	50	0			19.84						
10	1	0			18.08						
10	1	25			18.11						
10	1	49			18.06						
10	25	0	256-QAM		17.95		19.86	0.0968			
10	25	12			17.98						
10	25	25			17.98						
10	50	0			17.92						
Limit		ERP < 3W			Result		Pa	ISS			



LTE Band 14 Maximum Average Power [dBm] (GT - LC = 3.9 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)		
5	1	0		22.90	22.88	22.89				
5	1	12		22.95	22.96	22.98				
5	1	24		22.89	22.88	22.87		0.2972		
5	12	0	QPSK	21.87	21.89	21.86	24.73			
5	12	7		21.96	21.97	21.87				
5	12	13		21.92	21.93	21.91				
5	25	0		21.93	21.86	21.85				
5	1	0		22.25	22.26	22.27				
5	1	12		22.32	22.41	22.36	24.16			
5	1	24	16-QAM	22.28	22.22	22.20				
5	12	0		20.90	20.94	20.93		0.2606		
5	12	7		21.04	21.03	20.93				
5	12	13		21.01	20.97	20.97				
5	25	0		20.94	20.89	20.88				
5	1	0		21.18	21.16	21.09	22.94	0.1968		
5	1	12		21.17	21.19	21.14				
5	1	24		21.10	21.15	21.10				
5	12	0	64-QAM	19.91	19.94	19.89				
5	12	7		19.96	20.04	19.92				
5	12	13		19.98	19.96	19.94				
5	25	0		19.97	19.88	19.88				
5	1	0		18.06	18.04	18.05				
5	1	12		18.13	18.11	18.12				
5	1	24		18.06	18.04	18.05				
5	12	0	256-QAM	17.81	17.79	17.80	19.88	0.0973		
5	12	7		17.89	17.87	17.88				
5	12	13		17.91	17.89	17.90				
5	25	0		17.93	17.91	17.92				
Limit		ERP < 3W			Result		Pa	ISS		

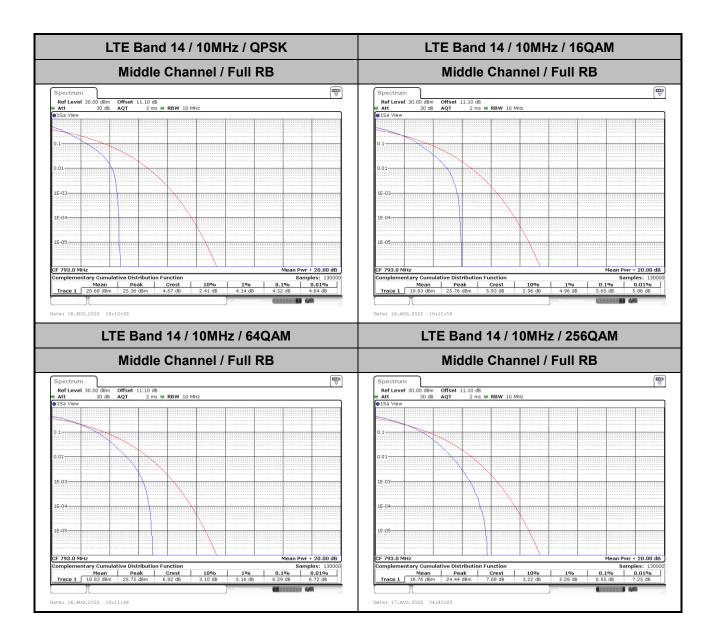
LTE Band 14

Peak-to-Average Ratio

Mode						
Mod.	QPSK	16QAM	64QAM	64QAM 256QAM		
RB Size	Full RB	Full RB	Full RB	Full RB	Result	
Middle CH	4.52	5.65	6.29	6.55	PASS	

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26dB Bandwidth

Mode	LTE Band 14 : 26dB BW(MHz)											
BW	1.4MHz		3MHz 5MHz 10MHz		ЛHz	15MHz		20MHz				
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.95	5.02	10.07	9.81	-	-	-	-
Mode					LTE B	and 14 : :	26dB BV	V(MHz)				
BW	1.4MHz 3MHz 5MHz 10MHz 15MHz 20MHz								ИHz			
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	4.99	4.83	9.87	10.01	•	-		-

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Date: 16.AUG.2022 16:55:55

LTE Band 14 Middle Channel / 5MHz / QPSK Middle Channel / 5MHz / 16QAM M1[1] 14.08 dBr 10 dBm 160 157. -10 dBm--50 dBm-
 X-value
 Y-value
 Function

 792.291 MHz
 15.36 dBm
 ndB down

 790.522 MHz
 -10.52 dBm
 ndB

 795.468 MHz
 -10.81 dBm
 Q factor

 X-value
 Y-value
 Function

 790.912 MHz
 14.08 dBm
 ndB down

 790.413 MHz
 -11.91 dBm
 ndB

 795.428 MHz
 -12.11 dBm
 Q factor
 Type Ref Trc Middle Channel / 10MHz / QPSK Middle Channel / 10MHz / 16QAM of Level 30.00 dBm Offset 11.10 dB ⊕ RBW 300 kHz t 30 dB SWT 12.6 ps ⊕ VBW 1 MHz Mode Auto FFT Count 100/100 ou.00 dBm Offset 30 dB SWT SGL Count 100/100 11.10 dB • RBW 300 kHz 12.6 μs • VBW 1 MHz Mode Auto FFT 26.00 di dBm--20 dBm--50 dBm-CF 793.0 MH Span 20.0 MHz Span 20.0 MHz 1001 pts
 X-value
 Y-value

 792.54 MHz
 15.58 dBm

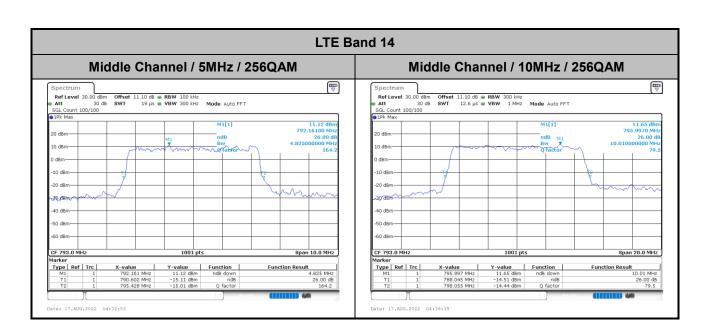
 787.985 MHz
 -10.46 dBm

 798.055 MHz
 -10.63 dBm
 X-value 790.483 MHz 788.145 MHz 797.955 MHz Type | Ref | Trc | Function Result **Function Result** Date: 16.AUG.2022 16:59:27 Middle Channel / 5MHz / 64QAM Middle Channel / 10MHz / 64QAM M1[1] M1[1] 10 dBm--40 dBm 40 dBm -60 dBm-1001 pt CF 793.0 MH Span 10.0 MHz CF 793.0 MHz Span 20.0 MHz Type Ref Trc X-value 794.199 MHz 790.493 MHz 795.478 MHz X-value 791.941 MHz 788.165 MHz 798.035 MHz

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Occupied Bandwidth

Mode	LTE Band 14 : 99%OBW(MHz)											
BW	1.4MHz		3N	lHz	z 5MHz 10MHz		15MHz		20MHz			
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.50	4.51	8.97	9.07	-	-	-	-
Mode					LTE Ba	and 14 : 9	99%OBV	V(MHz)				
BW	1.4MHz 3MHz 5MHz 10MHz 15MHz 20MHz								ИHz			
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	4.51	4.49	9.05	9.01	-	-		-

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LTE Band 14 Middle Channel / 5MHz / QPSK Middle Channel / 5MHz / 16QAM Ref Level 30.00 dBm Offset 11.10 dB = RBW 100 kHz Atto FFT SGL Count 100/100 SWT 19 µs = VBW 300 kHz Mode Auto FFT OFF Max 12.81 dBn 794.30900 MH 4.505494505 MH 16.10 dB M1[1] 10 dBm -10 dBm--10 dBm -20 dBm--30 dBm-40 dBm -50 dBm--60 dBm -60 dBm-
 Type
 Ref
 Trc
 X-value
 Y-value
 Function

 M1
 1
 793.08 MHz
 16.10 dBm

 Type
 Ref
 Trc
 X-value
 Y-value
 Function

 M1
 1
 794.309 MHz
 12.81 dBm
 9.08 dBm Occ Bw 8.83 dBm Middle Channel / 10MHz / QPSK Middle Channel / 10MHz / 16QAM Level 30.00 dBm Offset
Att 30 dB SWT
SQL Count 100/100

1Pk Max 11.10 dB • RBW 300 kHz 12.6 μs • VBW 1 MHz Mode Auto FFT 15.97 dBi 794.0590 MF 8.971028971 MF 15.59 dBn 794.8380 MH 9.070929071 MH dBm--20 dBm--20 dBm--50 dBm--50 dBm-CF 793.0 MHz 1001 pts CF 793.0 MHz 1001 pts Span 20.0 MHz Span 20.0 MHz
 X-value
 Y-value
 Function

 794.059 MHz
 15.97 dBm
 OCC BW

 798.5445 MHz
 9.24 dBm
 OCC BW

 797.5155 MHz
 10.91 dBm
 OCC BW

 X-value
 Y-value
 Function

 794.838 MHz
 15.59 dBm
 CC BW

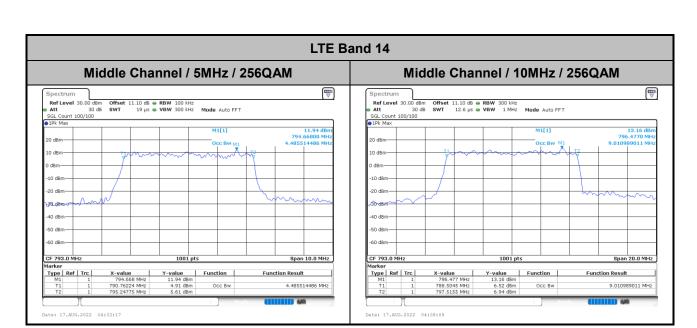
 788.4645 MHz
 8.34 dBm
 Occ BW

 797.5355 MHz
 7.55 dBm
 Type | Ref | Trc | Function Result Function Result 8.971028971 MHz 9.070929071 MHz Date: 16.AUG.2022 16:59:13 Middle Channel / 5MHz / 64QAM Middle Channel / 10MHz / 64QAM 12.28 dBi 795.00800 MF 4.505494505 MF M1[1] M1[1] 10 dBm--10 dBm 30°d8m^ -40 dBm 40 dBm -60 dBm--60 dBm-1001 pts CF 793.0 MHz 1001 pts Span 10.0 MHz CF 793.0 MHz Span 20.0 MHz Y-value Function
12.28 dBm
6.48 dBm Occ Bw
7.01 dBm X-value 789.124 MHz 788.5045 MHz 797.5554 MHz Type Ref Trc Function Function Result 4.505494505 MHz 9.050949051 MHz

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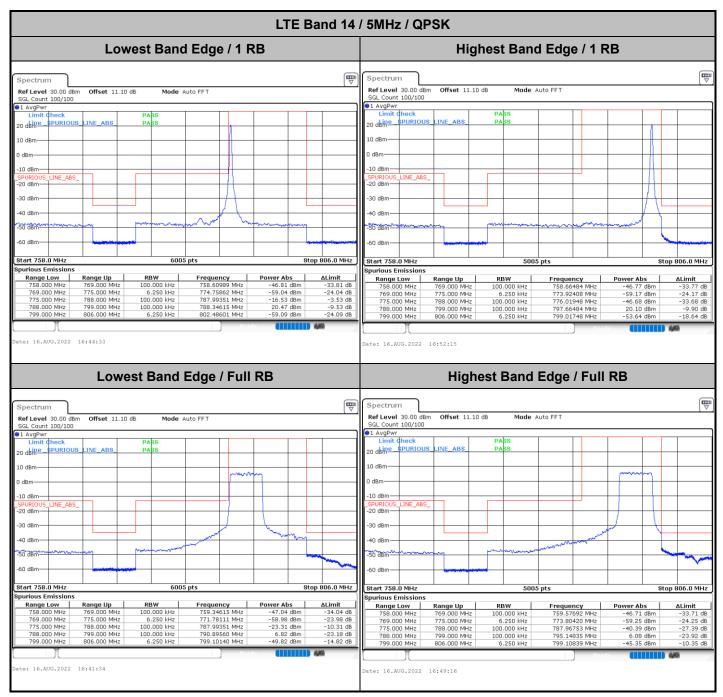
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Date: 16.AUG.2022 16:56:09



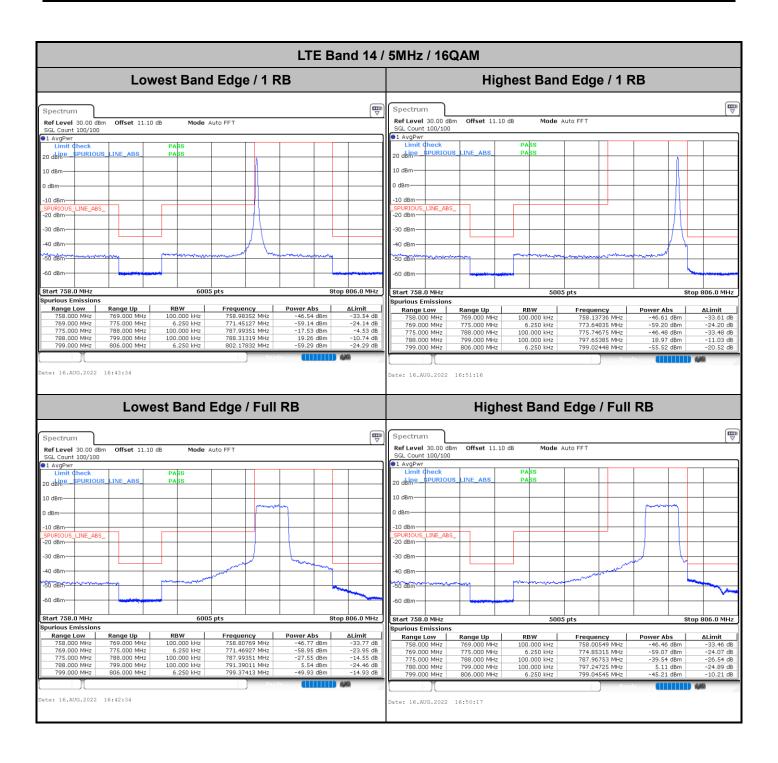
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Conducted Band Edge

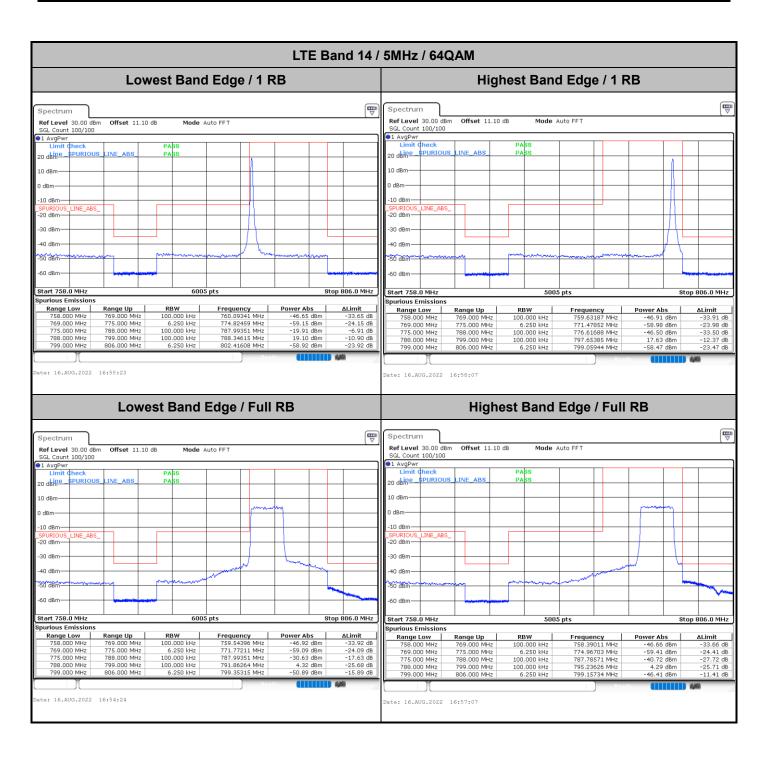


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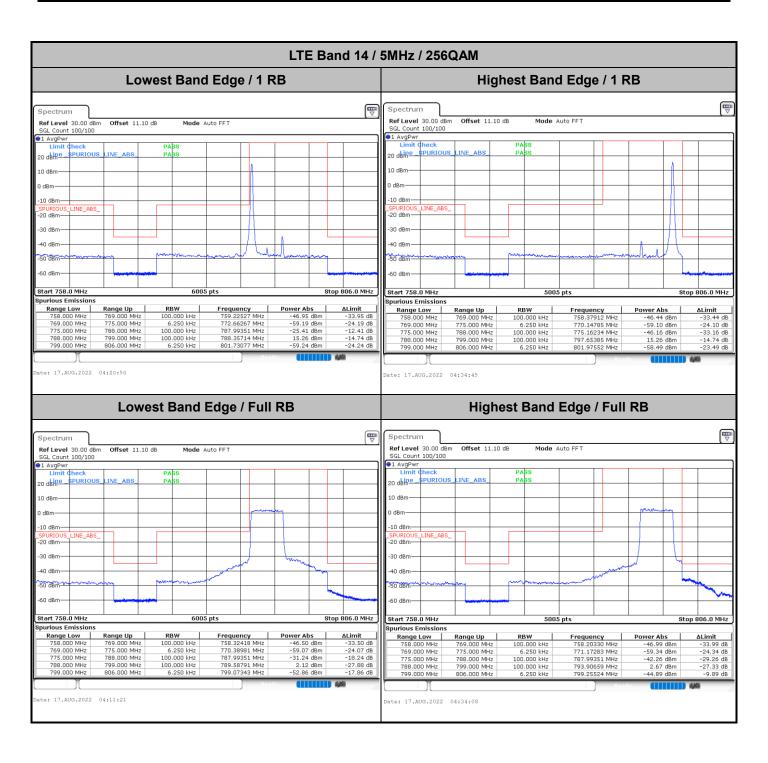
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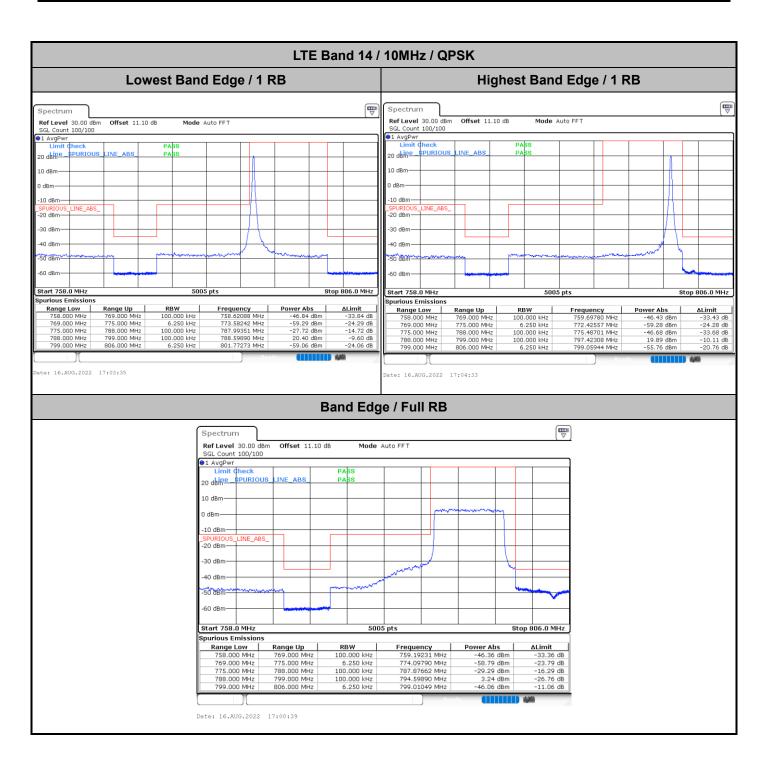
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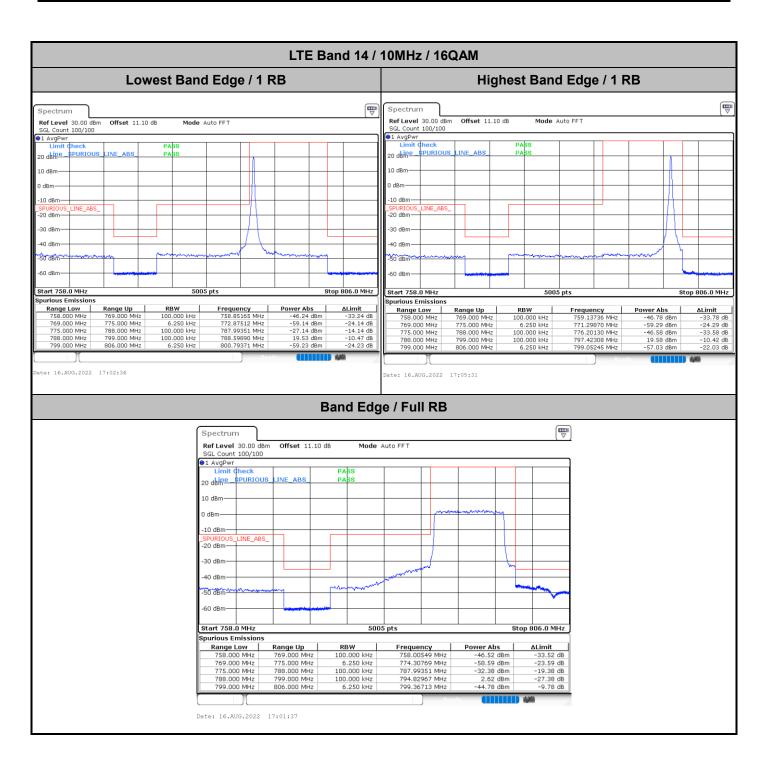
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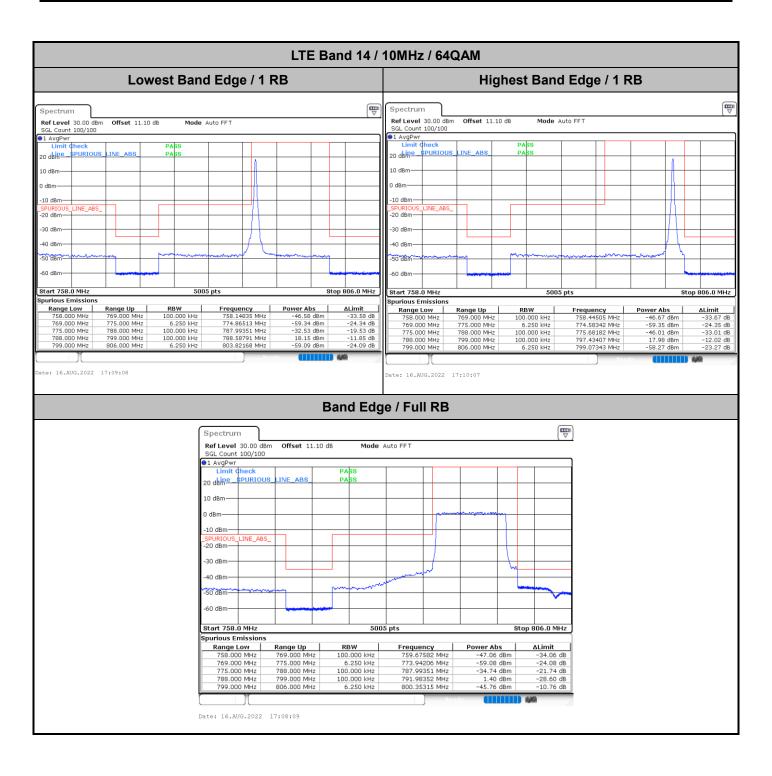
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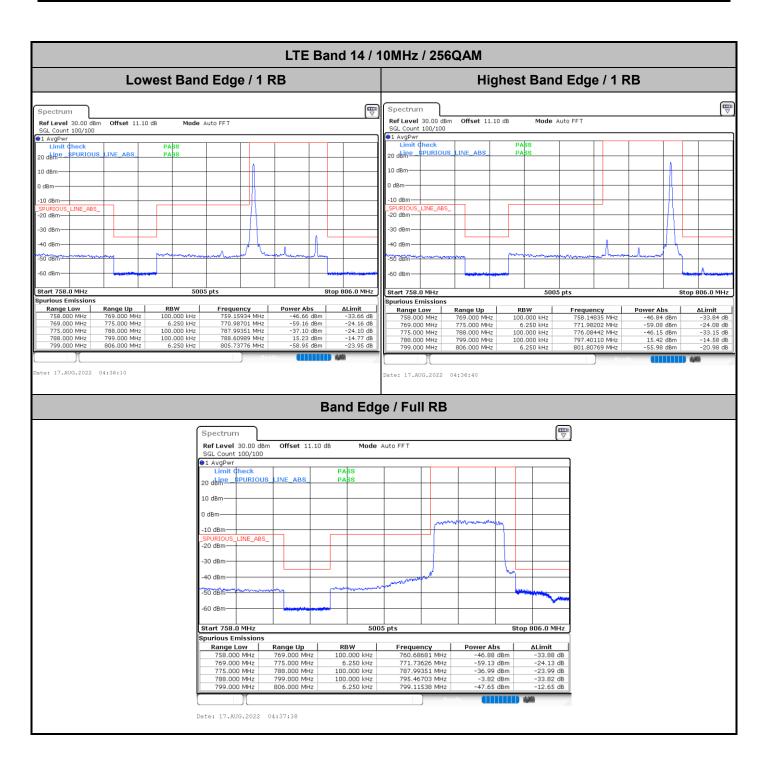
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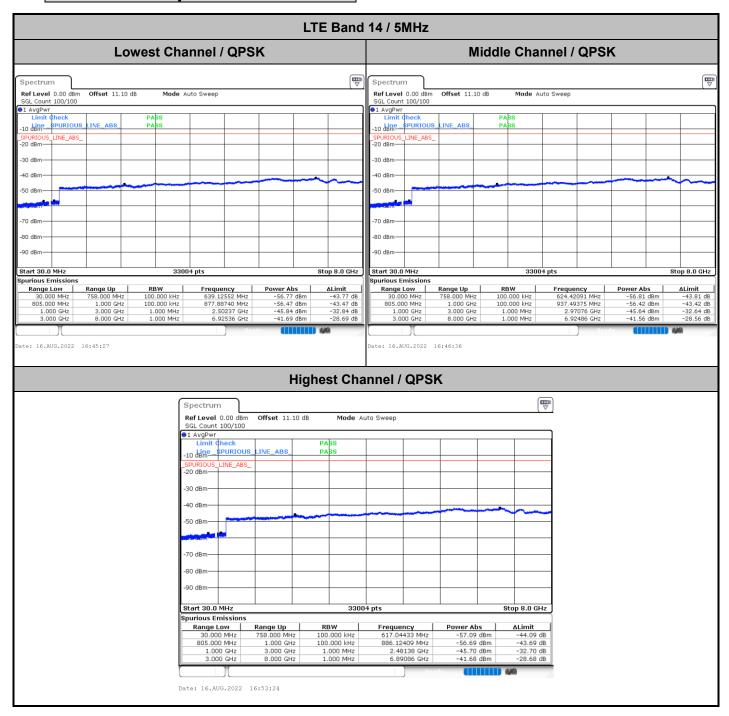


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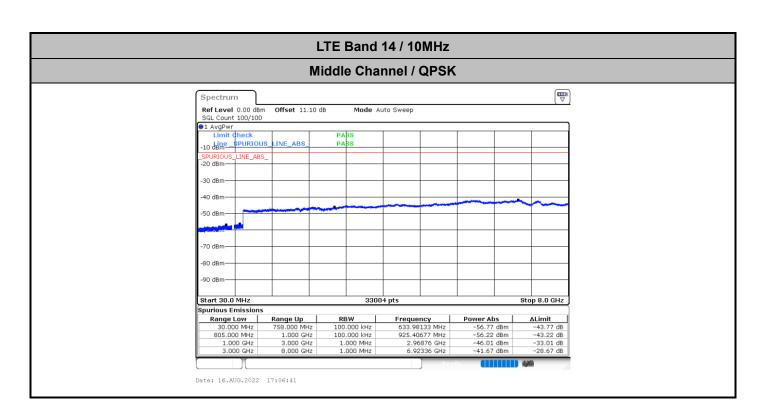
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Conducted Spurious Emission



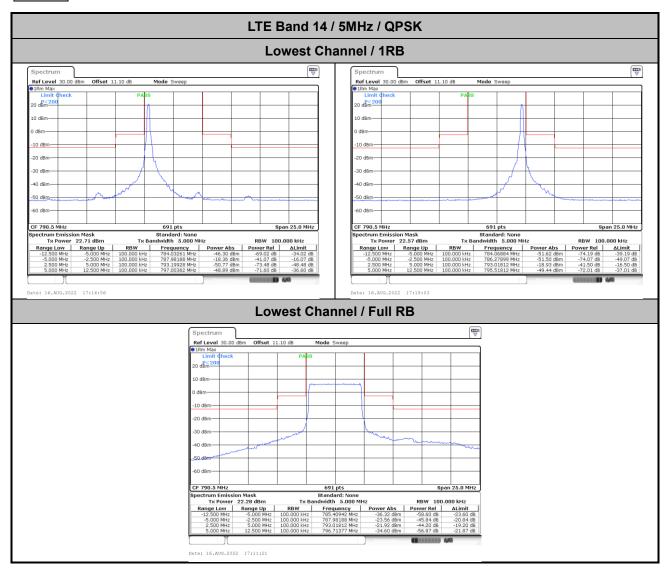
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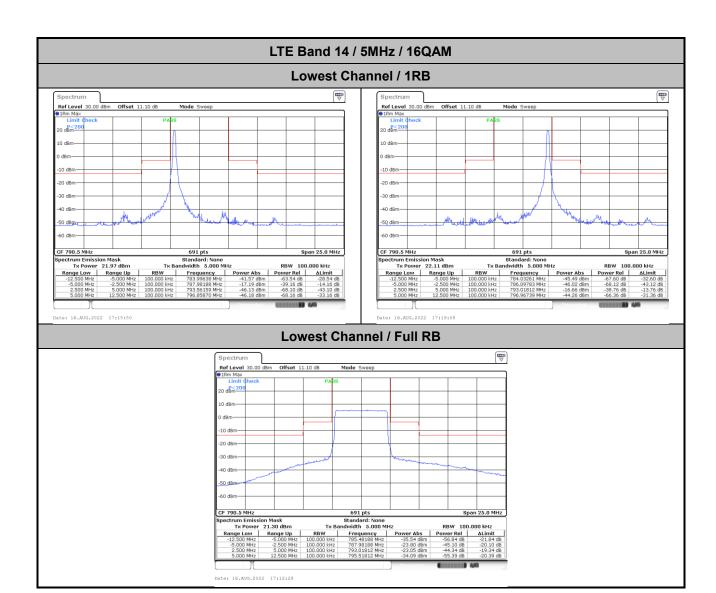


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Mask



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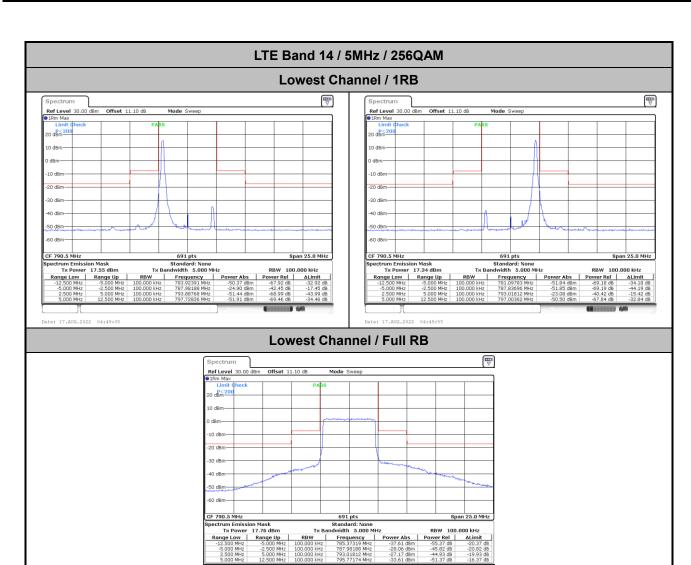
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LTE Band 14 / 5MHz / 64QAM **Lowest Channel / 1RB** Limit 20 dBm -50 dBm--50 dBm Date: 16.AUG.2022 17:14:42 Date: 16.AUG.2022 17:20:16 **Lowest Channel / Full RB □** Ref Level 30.00 dBm Offset 11.10 dB •1Rm Max 20 dBm= 0 dBm--20 dBm -40 dBm 50 dBm | Standard: None | Sta

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Date: 16.AUG.2022 17:13:36



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Date: 17.AUG.2022 04:50:46

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Date: 16.AUG.2022 17:50:57

Common Program | Part | Par

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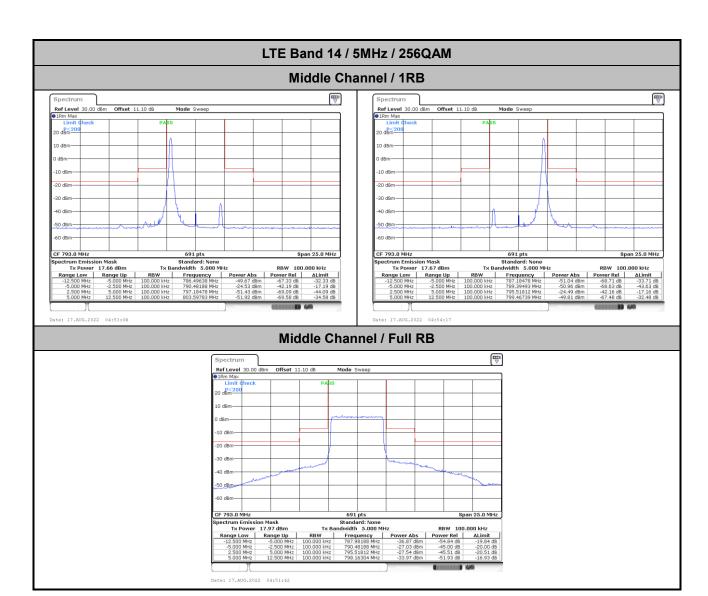
TEL: 886-3-327-3456 Page Number : A2-24 of 35

Date: 16.AUG.2022 17:49:50

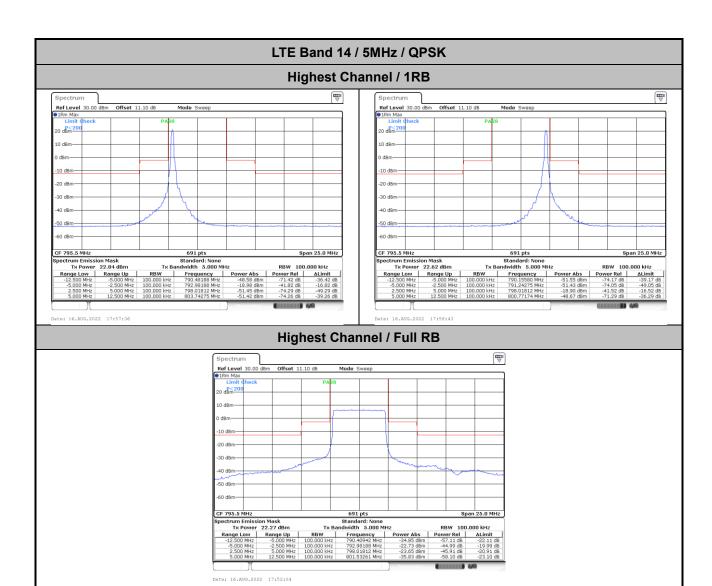
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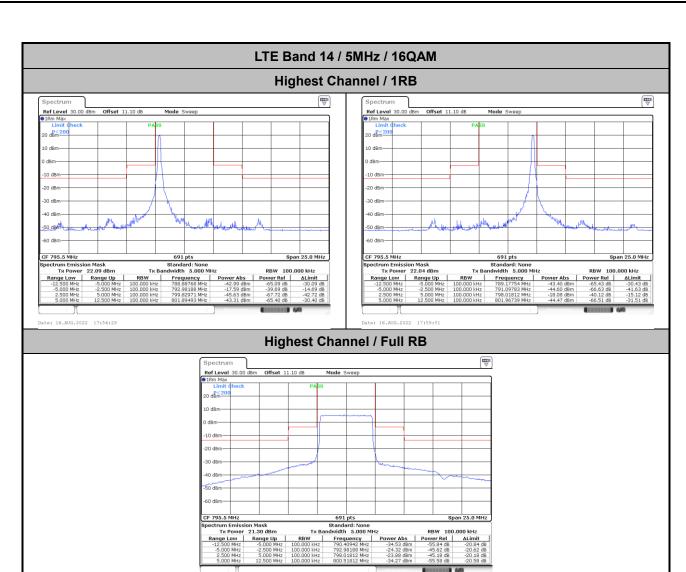
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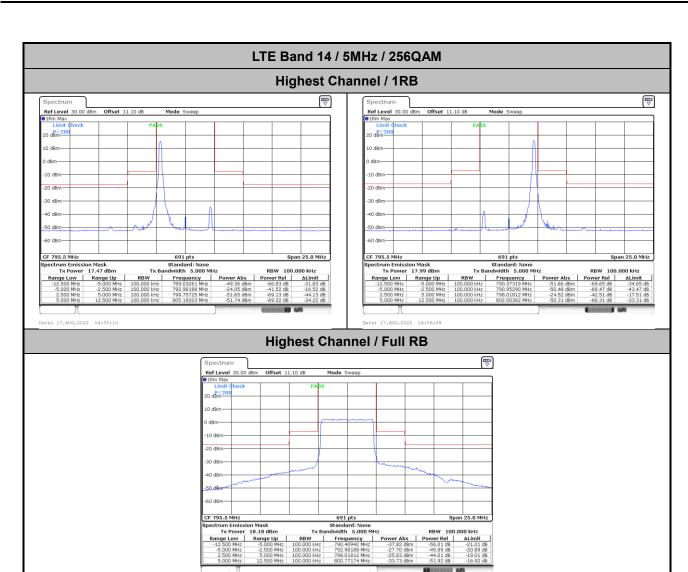
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Date: 16.AUG.2022 17:53:10

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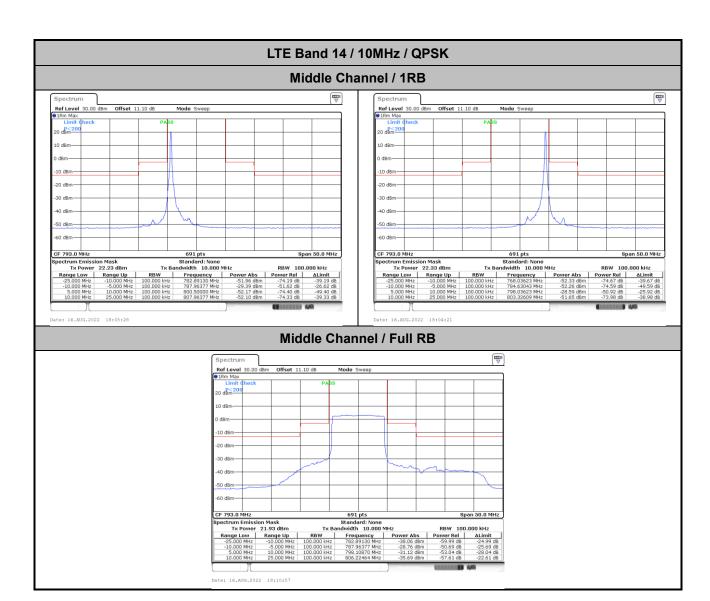
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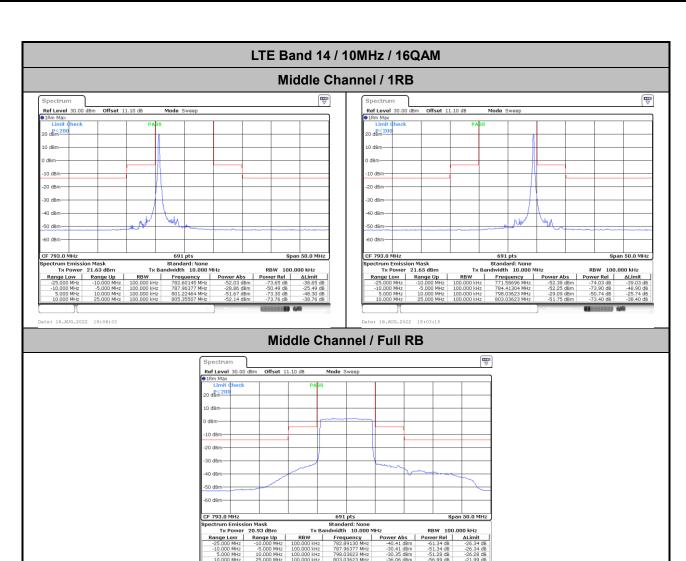


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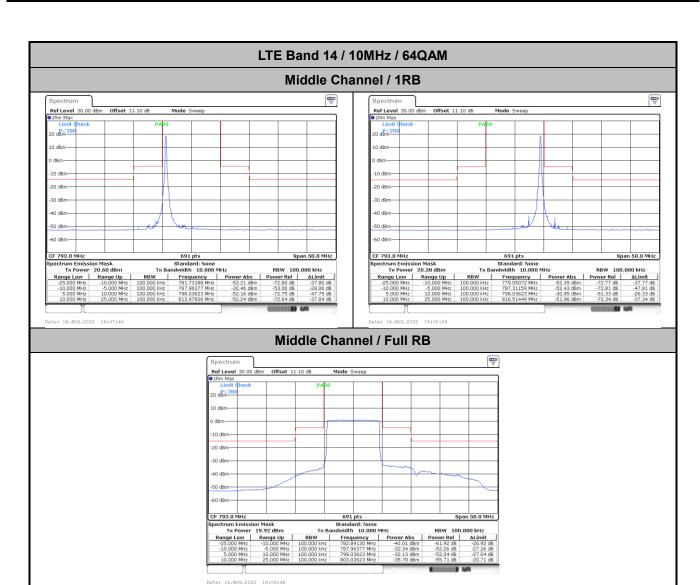


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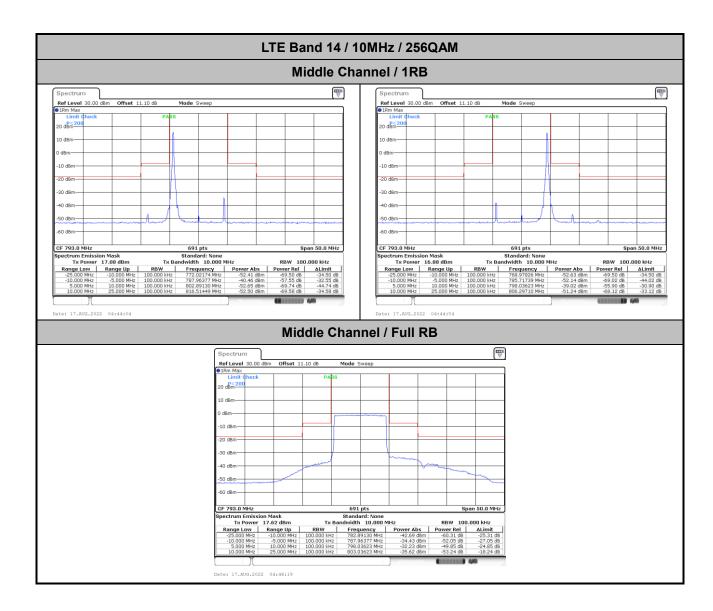


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Date: 16.AUG.2022 18:09:51



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Frequency Stability

Test (Conditions	LTE Band 14 (QPSK) / Middle Channel	Limit
Temperature	Voltage	BW 10MHz	Note 2.
(°C)	(Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0111	
40	Normal Voltage	0.0040	
30	Normal Voltage	0.0066	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0035	
0	Normal Voltage	0.0042	DACC
-10	Normal Voltage	0.0072	PASS
-20	Normal Voltage	0.0132	
-30	Normal Voltage	0.0025	
20	Maximum Voltage	0.0048	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0039	

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Note:

- 1. Normal Voltage = 3.3 V.; Battery End Point (BEP) = 3.135 V.; Maximum Voltage = 4.4 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.

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Appendix B. Test Results of Radiated Test

<Ant. 0>

LTE Band 14

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LTE Band 14 / 5MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	1576	-60.25	-42.15	-18.10	-75.53	-60.77	6.27	8.94	Н
	2365	-57.71	-13	-44.71	-75.51	-57.80	7.59	9.83	Н
	3153	-56.99	-13	-43.99	-76.67	-57.38	8.87	11.41	Н
									Н
									Н
									Н
Lowest									Н
Lowest	1576	-60.06	-42.15	-17.91	-75.32	-60.58	6.27	8.94	V
	2365	-58.44	-13	-45.44	-76.16	-58.53	7.59	9.83	V
	3153	-57.03	-13	-44.03	-76.74	-57.42	8.87	11.41	V
									V
									V
									V
									V
	1581	-60.13	-42.15	-17.98	-75.42	-60.70	6.27	8.99	Н
	2372	-58.66	-13	-45.66	-76.44	-58.77	7.60	9.86	Н
	3163	-56.45	-13	-43.45	-76.15	-56.84	8.89	11.43	Н
									Н
									Н
									Н
Middle									Н
	1581	-60.05	-42.15	-17.90	-75.33	-60.62	6.27	8.99	V
	2372	-58.57	-13	-45.57	-76.26	-58.68	7.60	9.86	V
	3163	-56.69	-13	-43.69	-76.45	-57.08	8.89	11.43	V
									V
									V
									V

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	4500	60.04	40.45	47.00	75.05	00.07	0.07	0.05	
Highest	1586	-60.04	-42.15	-17.89	-75.35	-60.67	6.27	9.05	Н
	2380	-58.37	-13	-45.37	-76.11	-58.51	7.61	9.90	Н
	3173	-56.36	-13	-43.36	-76.1	-56.76	8.90	11.45	Н
									Н
									Н
									Н
									Н
	1586	-60.08	-42.15	-17.93	-75.4	-60.71	6.27	9.05	V
	2380	-58.92	-13	-45.92	-76.56	-59.06	7.61	9.90	V
	3173	-56.46	-13	-43.46	-76.29	-56.86	8.90	11.45	V
									V
									V
									V
									V

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

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