



FCC Radio Test Report

FCC ID: HFSQTA-LI7CS

Report No. : BTL-FCCP-2-2107T083A Equipment : Notebook Computer

Model Name : NL72LTE, NL72CT-LTE, LI7, LI7XXXXXXXXX, NL7XXXXXXXXX (The

"X" Can be 0-9,A-Z, a-z, or blank for the marketing purpose)

Brand Name : Quanta, CTL

Applicant: Quanta Computer Inc.

Address : No. 188, Wenhua 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan

Radio Function : WCDMA Band II + LTE Band 2

FCC Rule Part(s) : 47 CRF FCC Part 24, Subpart E

47 CFR FCC Part 2

Measurement : ANSI/TIA/EIA-603-E-2016

Procedure(s) KDB 971168 D01 Power Meas License Digital Systems v03r01

Date of Receipt : 2021/9/11

Date of Test : 2021/9/11 ~ 2021/10/4

Issued Date : 2021/11/1

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

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BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REVISON HISTORY

Report No.	Version	Description	Issued Date
BTL-FCCP-2-2107T083A	R00	Original Report.	2021/10/13
BTL-FCCP-2-2107T083A	R01	Added one brand name.	2021/11/1

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SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

FCC Clause No	Description	Test Result	Judgement	Remark
15.207	AC Power Line Conducted Emissions	APPENDIX A	Pass	
2.1046 24.232(c)	RF Power Output	APPENDIX B	Pass	
2.1049	Occupied Bandwidth	APPENDIX C	Pass	
2.1051 24.238(a)	Conducted Spurious Emissions	APPENDIX D	Pass	
2.1053 24.238(a)	Radiated Spurious Emissions	APPENDIX E	Pass	
24.238(a)	Band Edge Measurements	APPENDIX F	Pass	
24.232(d)	Peak To Average Ratio	APPENDIX G	Pass	
2.1055 24.235	Frequency Stability	APPENDIX H	Pass	

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report.(2) The report format version is TP.1.1.1.

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1.1 TEST FACILITY

The test facilities used to collect the test data in this repor	The test facilities	used to	collect the	test data	in this	report
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No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan The test sites and facilities are covered under FCC RN: 674415 and DN: TW0659.

□ CB08 □ CB11 □ CB15 □ CB16

⊠ SR05

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expanded uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k} = \mathbf{2}$, providing a level of confidence of approximately 95 %. The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 \mathbf{U}_{cisor} requirement.

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U (dB)
C05	CISPR	150 kHz ~ 30MHz	3.44

B. Radiated Spurious Emissions test:

Test Site	Measurement Frequency Range	U,(dB)
	0.03 GHz ~ 0.2 GHz	4.17
	0.2 GHz ~ 1 GHz	4.72
CB15	1 GHz ~ 6 GHz	5.21
CB15	6 GHz ~ 18 GHz	5.51
	18 GHz ~ 26 GHz	3.69
	26 GHz ~ 40 GHz	4.23

NOTE:

Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Environment Condition	Test Voltage	Tested by
AC Power Line Conducted Emissions	24 °C, 51 %	AC 120V	Tim Lian
RF Power Output & ERP	24.6 °C, 67 % 22~25 °C, 52~54 %	AC 120V	Paul Shen Vincent Lee
Occupied Bandwidth	24.6 °C, 67 %	AC 120V	Paul Shen
Conducted Spurious Emissions	24.6 °C, 67 %	AC 120V	Paul Shen
Radiated Spurious Emissions	22~25 °C, 52~54 %	AC 120V	Vincent Lee
Band Edge	24.6 °C, 67 %	AC 120V	Paul Shen
Peak to Average Ratio	24.6 °C, 67 %	AC 120V	Paul Shen
Frequency Stability	Normal and E	Paul Shen	





2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	Notebook Co	ompute	er			
Model Name					7XXXXXXXXXX(The "X	
			z ,- or blank fo	r the marketing purp	pose)	
Brand Name	Quanta, CTI		•			
	Brand Na	me		Model Name		
	Quanta	а	· '	XXXXXXX (The "X"		
Mar Ial Difference				blank for the marke		
Model Difference	OT.			L72CT-LTE, NL7XX		
	CTL		X Can	be 0-9,A-Z, a-z,- or marketing purpos		
	Different mo	عناء اهاء	l tribute to differ	<u> </u>	oc)	
Power Source	Different model distribute to different area. DC voltage supplied from AC/DC Adapter.					
Power Adapter	LITEON / PA			riduptor.		
1 Owel Adapter	I/P: 100-240					
Power Adapter Power Rating				12.0V==-3.0A, 15.0\	V3.0A. 20.0V	
. che / laapter : che : tailing	2.25A	0.07 1,	0.07.,		. 0.07.1, =0.01	
WWAN Module	Fibocom / N	L668- <i>F</i>	λM			
				up Screen		
	Call Control Operating Mode			Operating Mode	Call Parms Cell Power	
	Active Cell	INSI:	UE Inf	ormation 001012345678901	-25.00	
		IMEI(SU)		867958050023747 ()	dBm/3.84 ffHz	
		Pouer C	lass:	3	Channel Type 12.2k RMC	
				Loop Transmit Pouer		
	End Call Initial PRACH TX Pouer: -60.00 dBm Initial DPCCH TX Pouer: 18.45 dBm			Paging Service RB Test Node		
	Call	Call Processing Status				
WCDMA IEMI No.	Paging		Service Type:	RB Test flode	HSPA	
	Paging Parameters _▽	IIII Statu GIIII Stat		INSI Attached Attached	Parameters	
			DPCH Offset:	0 chips		
	Handovers		SUPA Information Cat/Ext: 6/Unrep	HSDPA Information Cur UE HS-DSCH Cat:	34.121 Preset Call Configs	
		Last rec	eived E-TFCI: out: kbps	Block Error Ratio: kb	· ½	
	Clear UE Info	Channel				
		⊟ Backgr		Sys Type: UTRA I	FDD	
	1 of 6		Connected IntRef	Offset	1 of 3	
		,	, ,	, , , , , ,	,	
	2021/09/22 13:33		Conne	rted Dhana 2	Dhana 1	
	<fundamental mea<="" td=""><td></td><td>Output Main Conti</td><td>nuous</td><td>Phone-1 LTE</td></fundamental>		Output Main Conti	nuous	Phone-1 LTE	
	Parameter Measurin		undamental II	UE Report E Power: 21,4 dBm	UE Report	
	UE Report	e (phaci	Tout) U.	a rower - 21*4 ADM	T	
	IMSI(DEC)		00101012345678		A UE G Report	
	IMEI UE Category		86795805002374 4	U C	T T	
	PDN Type		IPv4v6		A Signaling G Trace	
	PCC RSRP		 (
LTE IEMI No.	RSRQ		(
	SCC-1 RSRP		(
	RSRQ SCC-2		(
	RSRP		(
	RSRQ Neighbour Cell		(
	LTE					
	Cell ID RSRP					
	RSRQ		(
	₩-CDMA/TD-SCDM	A RAT	Cell ID RSCP	10		
	GSM	В	and ARFON NCC BC		▼ 1 2 3	



Test Model	NL72LTE					
Sample Status	Engineering Sample					
	Mode	Band	UL Frequency (MHz)	DL Frequency (MHz)		
Operation Frequency	WCDMA	II	1850 ~ 1910	1930 ~ 1990		
	LTE	2	1850 ~ 1910	1930 ~ 1990		
EUT Modification(s)	N/A					

NOTE

(1) For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

(2) Channel List:

WCDMA Band II								
Test Frequency ID	UARFCN	Frequency of Uplink (MHz)	UARFCN	Frequency of Downlink (MHz)				
Low Range	9262	1852.4	9662	1932.4				
Mid Range	9400	1880.0	9800	1960.0				
High Range	9538	1907.6	9938	1987.6				

	LTE Band 2							
Test Frequency ID	Bandwidth (MHz)	N _{UL}	Frequency of Uplink (MHz)	N _{DL}	Frequency of Downlink (MHz)			
	1.4	18607	1850.7	607	1930.7			
	3	18615	1851.5	615	1931.5			
Low Bongo	5	18625	1852.5	625	1932.5			
Low Range	10	18650	1855	650	1935			
	15	18675	1857.5	675	1937.5			
	20	18700	1860	700	1940			
Mid Range	1.4/3/5/10/15/20	18900	1880	900	1960			
	1.4	19193	1909.3	1193	1989.3			
	3	19185	1908.5	1185	1988.5			
High Dongo	5	19175	1907.5	1175	1987.5			
High Range	10	19150	1905	1150	1985			
	15	19125	1902.5	1125	1982.5			
	20	19100	1900	1100	1980			

(3) Table for Filed Antenna:

Antenna	Manufacturer	Part Number	Type	Gain (dBi)	Note
Main	WNC	DQ6615GAU00 (81EAA615.GAU)	I PIEA I		-
Aux	WNC	DQ6615GVU00 (81EAA615.GAV)	PIFA	-0.56	-

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2.2 TEST MODES

	WCDMA BAND II MODE								
Test Item	Available Channel	Tested Channel	Mode						
Output Power & EIRP	9262 to 9538	9262, 9400, 9538	WCDMA, HSDPA,HSUPA						
Occupied Bandwidth	9262 to 9538	9262, 9400, 9538	WCDMA						
Conducted Spurious Emissions	9262 to 9538	9400	WCDMA						
Radiated Spurious Emissions	9262 to 9538	9400	WCDMA						
Band Edge	9262 to 9538	9262, 9538	WCDMA						
Peak to Average Ratio	9262 to 9538	9262, 9400, 9538	WCDMA						
Frequency Stability	9262 to 9538	9400	WCDMA						

	LTE BAND 2 MODE							
Test Item	Available Channel	Tested Channel	Bandwidth		Mode			
	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	1RB/3RB/6RB			
	18615 to 19185	18615 , 18900, 19185	3MHz	QPSK, 16QAM	1RB/8RB/15RB			
Output	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	1RB/12RB/25RB			
Power	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	1RB/25RB/50RB			
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	1RB/36RB/75RB			
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	1RB/50RB/100RB			
EIRP	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	1RB/50RB/100RB			
	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	6RB			
	18615 to 19185	18615 , 18900, 19185	3MHz	QPSK, 16QAM	15RB			
Occupied	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	25RB			
Bandwidth	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	50RB			
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	75 RB			
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	100RB			



	LTE BAND 2 MODE							
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode			
	18607 to 19193	18900	1.4MHz	QPSK	1RB			
Conducted	18615 to 19185	18900	3MHz	QPSK	1RB			
	18625 to 19175	18900	5MHz	QPSK	1RB			
Spurious Emissions	18650 to 19150	18900	10MHz	QPSK	1RB			
EIIIISSIOIIS	18675 to 19125	18900	15MHz	QPSK	1RB			
	18700 to 19100	18900	20MHz	QPSK	1RB			
Radiated Spurious Emissions	18700 to 19100	18900	20MHz	QPSK	1RB			
	18607 to 19193	18607, 19193	1.4MHz	QPSK	1RB/6RB			
	18615 to 19185	18615, 19185	3MHz	QPSK	1RB/15RB			
Dond Edge	18625 to 19175	18625, 19175	5MHz	QPSK	1RB/25RB			
Band Edge	18650 to 19150	18650, 19150	10MHz	QPSK	1RB/50RB			
	18675 to 19125	18675, 19125	15MHz	QPSK	1RB/75RB			
	18700 to 19100	18700, 19100	20MHz QPSK		1RB/100RB			
	18607 to 19193	18607, 18900, 19193	1.4MHz QPSK, 16QAM		1RB			
	18615 to 19185	18615 , 18900, 19185	3MHz	QPSK, 16QAM	1RB			
Peak To	18625 to 19175	18625, 18900, 19175	5MHz QPSK, 16QAM		1RB			
Average Ratio	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	1RB			
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	1RB			
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	1RB			
	18607 to 19193	18900	1.4MHz	QPSK	1RB			
	18615 to 19185	18900	3MHz	QPSK	1RB			
Frequency	18625 to 19175	18900	5MHz	QPSK	1RB			
Stability	18650 to 19150	18900	10MHz	QPSK	1RB			
	18675 to 19125	18900	15MHz	QPSK	1RB			
	18700 to 19100	18900	20MHz	QPSK	1RB			

NOTE:

(1) The Radiated emissions test was verified based on the worst conducted power and Bandwidth test results reported in the original report.

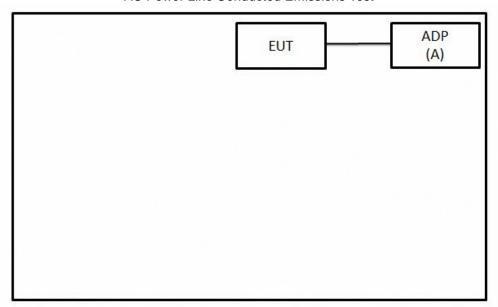
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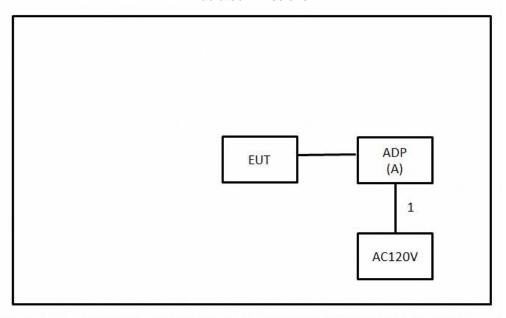
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Equipment letters and Cable numbers refer to item numbers described in the tables of clause 2.4.

AC Power Line Conducted Emissions Test



Radiated Emissions



2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
Α	Adapter	LITEON	PA-1450-50	N/A	Supplied by test requester

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	N/A	N/A	1m	Power Cord	Supplied by test requester



3 AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

Frequency	Limit (dBµV)		
(MHz)	Quasi-peak	Average	
0.15 - 0.5	66 - 56 *	56 - 46 *	
0.50 - 5.0	56	46	
5.0 - 30.0	60	50	

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

Reading Level		Correct Factor		Measurement Value
38.22	+	3.45	=	41.67

Measurement Value	Limit Value		Margin Level
41.67	60	=	-18.33

The following table is the setting of the receiver.

Receiver Parameter	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

3.2 TEST PROCEDURE

- a. The EUT was placed 0.8 m above the horizontal ground plane with the EUT being connected to the power mains through a line impedance stabilization network (LISN).
 - All other support equipment were powered from an additional LISN(s).
 - The LISN provides 50 Ohm/50uH of impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle to keep the cable above 40 cm.
- c. Excess I/O cables that are not connected to a peripheral shall be bundled in the center.
 - The end of the cable will be terminated, using the correct terminating impedance.
 - The overall length shall not exceed 1 m.
- d. The LISN is spaced at least 80 cm from the nearest part of the EUT chassis.
- e. For the actual test configuration, please refer to the related Item EUT TEST PHOTO.

NOTE:

- (1) In the results, each reading is marked as Peak, QP or AVG per the detector used. BW=9 kHz (6 dB Bandwidth)
- (2) All readings are Peak unless otherwise stated QP or AVG in column of Note. Both the QP and the AVG readings must be less than the limit for compliance.

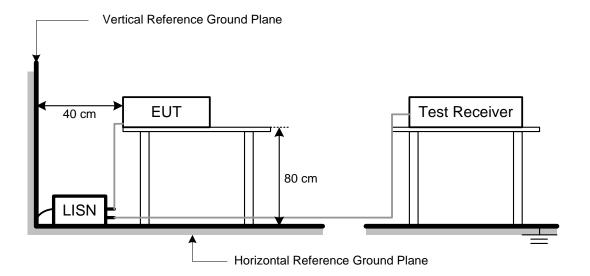
3.3 DEVIATION FROM TEST STANDARD

No deviation.

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TEST SETUP



3.5 **TEST RESULT**

Please refer to the APPENDIX A.

4 RF POWER OUTPUT TEST

4.1 LIMIT

Mobile / Portable station are limited to 2 watts e.i.r.p.

4.2 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 5.

EIRP / ERP Power Measurement:

EIRP = Conducted Power + Antenna gain.

ERP power = EIPR power - 2.15 dBi.

Conducted Power Measurement:

The EUT was set up for the maximum power with WCDMA and LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

4.3 DEVIATION FROM TEST STANDARD

No deviation.

4.4 TEST SETUP

Conducted Power Measurement:



4.5 TEST RESULT

Please refer to the APPENDIX B.



5 OCCUPIED BANDWIDTH MEASUREMENT

5.1 TEST PROCEDURE

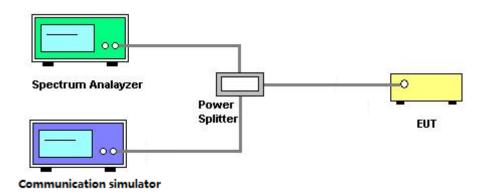
The testing follows FCC KDB 971168 v03r01 Section 4.

- a. The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth and 26dB bandwidth.
- b. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- c. RBW=(1% ~ 5%)*EBW VBW≥3* RBW.
- d. Set spectrum analyzer with Peak detector.

5.2 DEVIATION FROM TEST STANDARD

No deviation.

5.3 TEST SETUP



5.4 TEST RESULT

Please refer to the APPENDIX C

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6 CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

6.1 LIMIT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. The emission limit equal to -13dBm.

6.2 TEST PROCEDURE

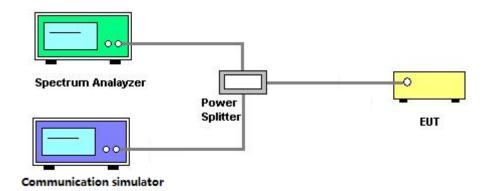
The testing follows FCC KDB 971168 v03r01 Section 6.

- a. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- b. The band edges of low and high channels for the highest RF powers were measured. Set RBW>=1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
- c. Set spectrum analyzer with Peak detector.
- d. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

6.3 DEVIATION FROM TEST STANDARD

No deviation.

6.4 TEST SETUP



6.5 TEST RESULT

Please refer to the APPENDIX D.

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7 RADIATED SPURIOUS EMISSIONS TEST

7.1 LIMIT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. The emission limit equal to -13dBm.

NOTE:

(1) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use) Margin Level = Measurement Value - Limit Value

Cai	cuiai	tion	exam	pie:

Reading Level		Correct Factor		Measurement Value
-50.43	+	-2.11	II	-52.54

Measurement Value	Limit Value		Margin Level
-52.54	-13	=	-39.54

7.2 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 6.2.

- a. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G
- c. EIRP = Output power level of S.G TX cable loss + Antenna gain of substitution horn.
- d. ERP can be calculated form EIRP by subtracting the gain of dipole, ERP = EIPR 2.15dBi.
- e. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

7.3 DEVIATION FROM TEST STANDARD

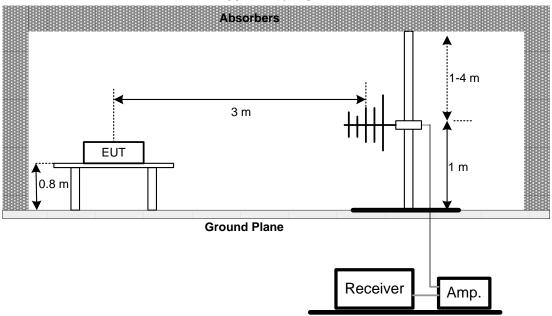
No deviation.

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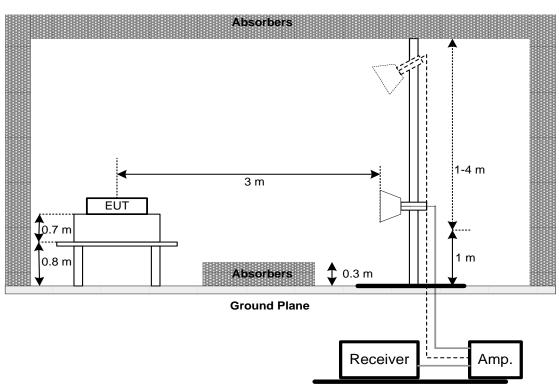


7.4 TEST SETUP

30 MHz to 1 GHz



Above 1 GHz



7.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULT

Please refer to the APPENDIX E.



8 BAND EDGE MEASUREMENT

8.1 LIMIT

A Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

8.2 TEST PROCEDURE

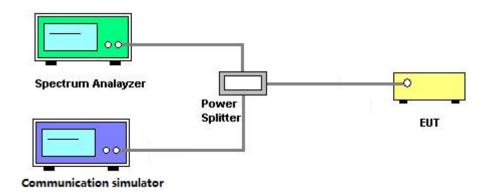
The testing follows FCC KDB 971168 v03r01 Section 6.

- a. All measurements were done at low and high operational frequency range.
- b. Record the max trace plot into the test report.

8.3 DEVIATION FROM TEST STANDARD

No deviation.

8.4 TEST SETUP



8.5 TEST RESULT

Please refer to the APPENDIX F



9 PEAK TO AVERAGE RATIO MEASUREMENT

9.1 LIMIT

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.

9.2 TEST PROCEDURE

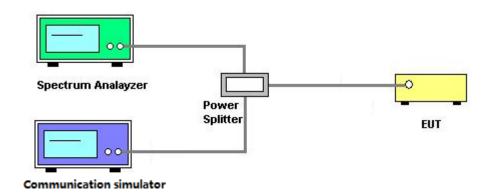
The testing follows FCC KDB 971168 v03r01 Section 5.7.

- a. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth.
- b. Set the number of counts to a value that stabilizes the measured CCDF curve.
- c. Record the maximum PAPR level associated with a probability of 0.1%.

9.3 DEVIATION FROM TEST STANDARD

No deviation.

9.4 TEST SETUP



9.5 TEST RESULT

Please refer to the APPENDIX G.



10 FREQUENCY STABILITY MEASUREMENT

10.1 LIMIT

±1.5 ppm is for base and fixed station. ±2.5 ppm is for mobile station.

10.2 TEST PROCEDURE

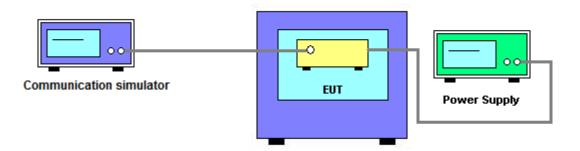
The testing follows FCC KDB 971168 v03r01 Section 9.

- a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- b. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ±0.5°C during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.
- d. The frequency error was recorded frequency error from the communication simulator.

10.3 DEVIATION FROM TEST STANDARD

No deviation.

10.4 TEST SETUP



10.5 TEST RESULT

Please refer to the APPENDIX H

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11 LIST OF MEASURING EQUIPMENTS

	AC Power Line Conducted Emissions										
Item Kind of Equipment		Manufacturer Type No.		ype No. Serial No.		Calibrated Until					
1	TWO-LINE V-NETWORK	- I DEC I ENV/216 I 101330 I				2022/3/9					
2	Test Cable	EMCI	EMCI EMCRG58-BM-B 210501		2021/5/3	2022/5/2					
3	EMI Test Receiver	R&S	ESR 7	101433	2020/12/11	2021/12/10					
4	Measurement Software	EZ	EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A					

	RF Power Output										
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until					
1	8960 Series 10 Wireless Com Test Set	Agilent	E5515C	GB47390193	2021/7/23	2022/7/22					
2	Radio Communication Analyzer	Anritsu	MT8820C	6201381608	2021/1/7	2022/1/6					

	Radiated Spurious Emissions									
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until				
1	Preamplifier	EMCI	EMC02325B	980217	2021/4/8	2022/4/7				
2	Preamplifier	EMCI	EMC012645B	980267	2021/4/8	2022/4/7				
3	Test Cable	EMCI	EMC-SM-SM-100 0	180809	2021/4/8	2022/4/7				
4	Test Cable	EMCI	EMC104-SM-SM- 3000	151205	2021/4/8	2022/4/7				
5	Test Cable	EMCI	EMC-SM-SM-700 0	180408	2021/4/8	2022/4/7				
6	MXE EMI Receiver Agilent N9038A		N9038A	MY554200087	2021/5/27	2022/5/26				
7	Signal Analyzer	Agilent	N9010A	MY56480554	2021/8/25	2022/8/24				
8	Horn Ant	SCHWARZBECK	BBHA 9120D	9120D-1342	2021/6/2	2022/6/1				
9	Horn Ant	Schwarzbeck	BBHA 9170	BBHA 9170340	2021/7/9	2022/7/8				
10	Trilog-Broadband Antenna	1 SCHWALZHECK I VIII B 9 IDO		VULB 9168-352	2021/8/11	2022/8/10				
11	5dB Attenuator	EMCI	EMCI-N-6-05	AT-N0625	2021/8/11	2022/8/10				
12	Measurement Software	EZ	EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A				
13	8960 Series 10 Wireless Com Test Set	Agilent	E5515C	GB47390193	2021/7/23	2022/7/22				
14	Radio		MT8820C 6201381608		2021/1/7	2022/1/6				



	Frequency Stability Measurement										
Item	Kind of Equipment	Manufacturer	anufacturer Type No. Serial No.		Calibrated Date	Calibrated Until					
1	8960 Series 10 Wireless Com Test Set	Agilent	E5515C	GB47390193	2021/7/23	2022/7/22					
2	Radio Communication Analyzer	Anritsu	MT8820C	6201381608	2021/1/7	2022/1/6					
3	Thermal Chamber	HOLINK	H-T-1F-D	BA03101701	2021/6/28	2022/6/27					

	Others Conducted Measurement										
Item	Kind of Equipment	Manufacturer	Manufacturer Type No. Serial No.		Calibrated Date	Calibrated Until					
1	8960 Series 10 Wireless Com Test Set	Agilent	Agilent E5515C		2021/7/23	2022/7/22					
2	Radio Communication Analyzer	Anritsu	MT8820C	6201381608	2021/1/7	2022/1/6					
3	Spectrum Analyzer	R&S	FSP40 100129		2021/6/8	2022/6/7					
4	Spectrum Analyzer	Agilent	N9010A	MY54200240	2021/5/27	2022/5/26					

Remark: "N/A" denotes no model name, no serial no. or no calibration specified. All calibration period of equipment list is one year.



42 FUT TEST BUOTO								
12 EUT TEST PHOTO								
Please refer to document Appendix No.: TP-2107T083A-FCCP-1 (APPENDIX-TEST PHOTOS).								
13 EUT PHOTOS								
Please refer to document Appendix No.: EP-2107T083A-1 (APPENDIX-EUT PHOTOS).								

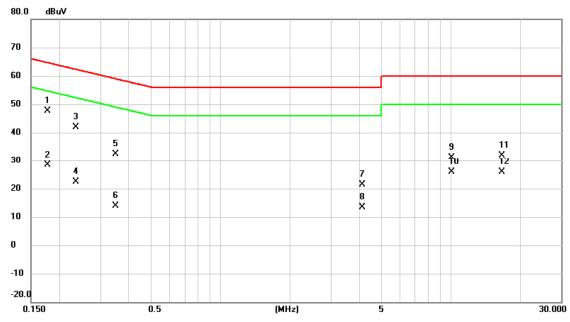
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APPENDIX A	AC POWER LINE CONDUCTED EMISSIONS

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Ш				
	Test Mode	Normal	Tested Date	2021/9/17
	Test Frequency	-	Phase	Line



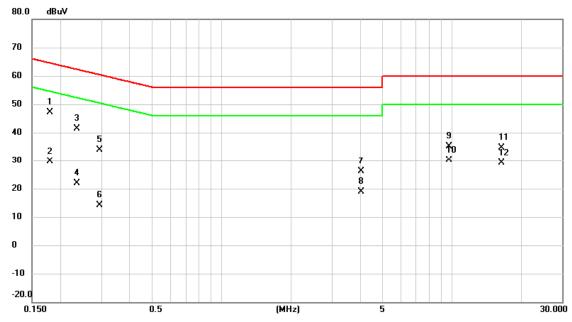
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1	*	0.1770	38.01	9.72	47.73	64.63	-16.90	QP	
2		0.1770	18.75	9.72	28.47	54.63	-26.16	AVG	
3		0.2355	32.10	9.72	41.82	62.25	-20.43	QP	
4		0.2355	12.74	9.72	22.46	52.25	-29.79	AVG	
5		0.3525	22.74	9.72	32.46	58.90	-26.44	QP	
6		0.3525	4.22	9.72	13.94	48.90	-34.96	AVG	
7		4.0920	11.43	9.90	21.33	56.00	-34.67	QP	
8		4.0920	3.46	9.90	13.36	46.00	-32.64	AVG	
9		10.0433	21.11	10.11	31.22	60.00	-28.78	QP	
10		10.0433	15.77	10.11	25.88	50.00	-24.12	AVG	
11		16.5930	21.65	10.20	31.85	60.00	-28.15	QP	
12		16.5930	15.64	10.20	25.84	50.00	-24.16	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

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Ш				
	Test Mode	Normal	Tested Date	2021/9/17
	Test Frequency	-	Phase	Neutral



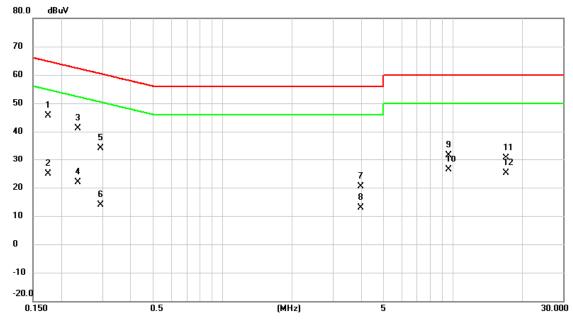
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1	*	0.1793	37.47	9.73	47.20	64.52	-17.32	QP	
2		0.1793	19.87	9.73	29.60	54.52	-24.92	AVG	
3		0.2355	31.62	9.72	41.34	62.25	-20.91	QP	
4		0.2355	12.19	9.72	21.91	52.25	-30.34	AVG	
5		0.2940	24.16	9.73	33.89	60.41	-26.52	QP	
6		0.2940	4.42	9.73	14.15	50.41	-36.26	AVG	
7		4.0155	16.13	9.91	26.04	56.00	-29.96	QP	
8		4.0155	8.86	9.91	18.77	46.00	-27.23	AVG	
9		9.7238	25.08	10.14	35.22	60.00	-24.78	QP	
10		9.7238	20.04	10.14	30.18	50.00	-19.82	AVG	
11		16.3568	24.47	10.28	34.75	60.00	-25.25	QP	
12		16.3568	18.96	10.28	29.24	50.00	-20.76	AVG	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value - Limit Value.

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Ш				
	Test Mode	Idle	Tested Date	2021/9/17
	Test Frequency	-	Phase	Line



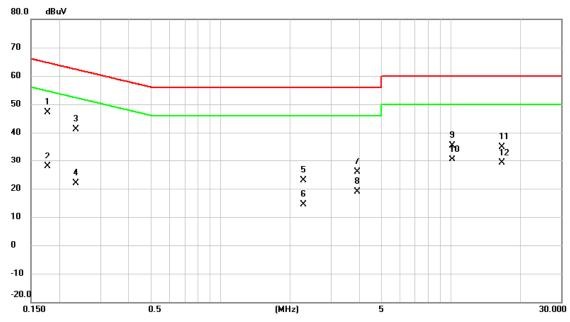
No. 1	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1	*	0.1748	35.94	9.73	45.67	64.73	-19.06	QP	
2		0.1748	15.04	9.73	24.77	54.73	-29.96	AVG	
3		0.2355	31.32	9.72	41.04	62.25	-21.21	QP	
4		0.2355	12.15	9.72	21.87	52.25	-30.38	AVG	
5		0.2940	24.39	9.73	34.12	60.41	-26.29	QP	
6		0.2940	4.19	9.73	13.92	50.41	-36.49	AVG	
7		3.9525	10.61	9.89	20.50	56.00	-35.50	QP	
8		3.9525	2.87	9.89	12.76	46.00	-33.24	AVG	
9		9.6158	21.54	10.10	31.64	60.00	-28.36	QP	
10		9.6158	16.16	10.10	26.26	50.00	-23.74	AVG	
11		17.0160	20.52	10.20	30.72	60.00	-29.28	QP	
12		17.0160	14.89	10.20	25.09	50.00	-24.91	AVG	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value - Limit Value.

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Ш				
	Test Mode	Idle	Tested Date	2021/9/17
	Test Frequency	-	Phase	Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1	*	0.1770	37.46	9.73	47.19	64.63	-17.44	QP	
2		0.1770	18.13	9.73	27.86	54.63	-26.77	AVG	
3		0.2355	31.36	9.72	41.08	62.25	-21.17	QP	
4		0.2355	12.10	9.72	21.82	52.25	-30.43	AVG	
5		2.2853	13.11	9.79	22.90	56.00	-33.10	QP	
6		2.2853	4.60	9.79	14.39	46.00	-31.61	AVG	
7		3.9075	15.98	9.90	25.88	56.00	-30.12	QP	
- 8		3.9075	8.93	9.90	18.83	46.00	-27.17	AVG	
9		10.1625	25.35	10.15	35.50	60.00	-24.50	QP	
10		10.1625	20.18	10.15	30.33	50.00	-19.67	AVG	
11		16.5863	24.50	10.29	34.79	60.00	-25.21	QP	
12		16.5863	18.93	10.29	29.22	50.00	-20.78	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

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APPENDIX B	RF POWER OUTPUT TEST	

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Output Power (dBm):

Band	Mode	UL/DL Channel No.	Frequency(MHz)	Average power(dBm)
MODIMA	Rel 99	9262/9662	1852.4	22.43
WCDMA Band II		9400/9800	1880.0	22.46
Dana II		9538/9938	1907.6	22.44

Band	Sub-test	UL/DL Channel No.	Average power(dBm)		
		9262/9662	22.38		
	1	9400/9800	22.37		
		9538/9983	22.39 21.90 21.89 21.91		
		9262/9662	21.90		
	2	9400/9800	21.89		
HSDPA II		9538/9983	21.91		
HODPA II	3	9262/9662	21.48		
		9400/9800	21.47		
		9538/9983	21.49		
		9262/9662	22.29		
	4	9400/9800	22.28		
		9538/9983	22.30		

Band	Sub-test	UL/DL Channel No.	Average power(dBm)			
		9262/9662	22.39			
	1	9400/9800	22.38			
		9538/9983	22.40			
		9262/9662	Average power(dBm) 262/9662 22.39 400/9800 22.38 538/9983 22.40 262/9662 20.44 400/9800 20.43 538/9983 20.45 262/9662 21.53 400/9800 21.52 538/9983 21.54 262/9662 20.67 400/9800 20.66 538/9983 20.68 262/9662 22.32 400/9800 22.31			
	2	9400/9800	20.43			
		9538/9983	20.45			
		9538/9983 20.45 9262/9662 21.53 9400/9800 21.52				
HSUPA II	3	9400/9800	21.52			
		9538/9983	21.54			
		9262/9662	20.67			
	4	9400/9800	20.66			
		9538/9983	20.68			
	5	9400/9800	22.31			
		9538/9983	22.33			





Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
	, ,		, ,		1	0	0	22.21
					1	3	0	22.12
					1	5	0	22.17
				QPSK	3	0	0	22.21
					3	1	0	22.12
					3	3	0	22.17
					6	0	1	21.27
		18607	1850.7		1	0	1	21.43
					1	3	1	21.30
					1	5	1	21.28
				16QAM	3	0	1	21.43
					3	1	1	21.30
					3	3	1	21.28
					6	0	2 20.36	
					1	0	0	22.03
		18900	1880.0	QPSK	1	3	0	22.25
					1	5	0	22.13
					3	0	0	22.03
					3	1	0	22.25
					3	3	0	22.13
	4.4				6	0	1	21.09
2	1.4				1	0	1	21.21
					1	3	1	21.17
					1	5	1	21.20
					3	0	1	21.21
					3	1	1	21.17
					3	3	1	21.20
					6	0	2	20.50
					1	0	0	22.13
					1	3	0	22.01
					1	5	0	22.15
				QPSK	3	0	0	22.13
					3	1	0	22.01
					3	3	0	22.15
		10102	1909.3		6	0	1	21.19
		19193	1909.5		1	0	1	21.31
					1	3	1	21.27
					1	5	1	21.22
				16QAM	3	0	1	21.31
					3	1	1	21.27
				Ī	3	3	1	21.22
					6	0	2	20.60





Band	BW	Channel	Frequency	Mode	UL RB	UL RB	MPR	Average power
Dana	(MHz)	Oriannei	(MHz)	Wode	Allocation	Offset	IVII IX	(dBm)
					1	0	0	22.26
					1	8	0	22.17
					1	14	0	22.22
				QPSK	8	0	1	21.41
					8	4	1	21.25
					8	7	1	21.44
		40045	1851.5		15	0	1	21.32
		18615	1851.5		1	0	1	21.48
					1	8	1	21.35
					1	14	1	21.33
				16QAM	8	0	2	20.31
					8	4	2	20.35
		1		Ī	8	7	2	20.29
					15	0	2	20.41
					1	0	0 2	22.08
				QPSK	1	8	0	22.30
					1	14	0	22.18
					8	0	1	21.19
					8	4	1	21.34
					8	7	1	21.36
2	3	18900	1880.0		15	0	1	21.14
2	3			16QAM	1	0	1	21.26
					1	8	1	21.22
					1	14	1	21.25
					8	0	2	20.09
					8	4	2	20.44
					8	7	2	20.21
					15	0	2	21.30
					1	0	0	22.18
					1	8	0	22.06
					1	14	0	22.20
				QPSK	8	0	1	21.29
					8	4	1	21.10
					8	7	1	21.38
		10015	1908.5		15	0	1	21.24
		19815	1906.5		1	0	1	21.36
					1	8	1	21.32
					1	14	1	21.27
				16QAM	8	0	2	20.19
			Ιοαλίνι	8	4	2	20.20	
					8	7	2	20.23
					15	0	2	21.10





Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
			, ,		1	0	0	22.31
					1	12	0	22.22
					1	24	0	22.27
				QPSK	12	0	1	21.46
					12	7	1	21.30
					12	13	1	21.49
					25	0	1	21.37
		18625	1852.5		1	0	1	21.53
					1	12	1	21.40
					1	24	1	21.38
				16QAM	12	0	2	20.36
					12	7	2	20.40
				-	12	13	2	20.34
					25	0	2	20.46
					1	0	0	22.13
				•	1	12	0	22.35
					1	24	0	22.23
				QPSK	12	0	1	21.24
					12	7	1	21.39
					12	13	1	21.41
	_	18900	1880.0		25	0	1	21.19
2	5			16QAM	1	0	1	21.31
					1	12	1	21.27
					1	24	1	21.30
					12	0	2	20.14
					12	7	2	20.49
					12	13	2	20.26
					25	0	2	20.28
					1	0	0	22.23
					1	12	0	22.11
					1	24	0	22.25
				QPSK	12	0	1	21.34
					12	7	1	21.15
					12	13	1	21.43
		10175	1007.5		25	0	1	21.29
		19175	1907.5		1	0	1	21.41
					1	12	1	21.37
					1	24	1	21.32
				16QAM	12	0	2	20.24
					12	7	2	20.25
					12	13	2	20.28
					25	0	2	20.38





Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
	(IVII IZ)		(IVII IZ)				0	
					1	0	0	22.36
					1	25	0	22.27
				QPSK	1	49	0	22.32
				QFSN	25	0	1	21.51
					25 25	12 25	1	21.35
					50		1	21.54
		18650	1855.0		1	0	1	21.42 21.58
					1	25	1	21.45
					1	49	1	21.43
				16QAM	25	0	2	20.41
				IOQAW	25	12	2	20.45
					25	25	2	
		1			50	0	2	20.39 20.51
					1	0	0	20.51
		1		QPSK	1	25	0	22.18
					1	49	0	22.40
					25	0	1	21.29
					25	12	1	21.44
					25	25	1	21.46
					50 0 1		21.46	
2	10	18900	1880.0	16QAM	1	0	1	21.36
					1	25	1	21.32
					1	49	1	21.35
					25	0	2	20.19
					25	12	2	20.19
					25	25	2	20.31
					50	0	2	20.33
		-			1	0	0	22.28
		1			1	25	0	22.16
		1			1	49	0	22.30
				QPSK	25	0	1	21.39
		1		GI OIL	25	12	1	21.20
		1			25	25	1	21.48
		1			50	0	1	21.34
		19150	1905.0		1	0	1	21.46
		1			1	25	1	21.42
		1			1	49	1	21.37
		1		16QAM	25	0	2	20.29
		1		16QAM	25	12	2	20.30
					25	25	2	20.33
					50	0	2	20.43
	<u>l</u>		ļ		50	U		۷٠. 4 ۵





Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
	()		(1	0	0	22.41
					1	37	0	22.32
					1	74	0	22.37
				QPSK	36	0	1	21.56
				Q. O.	36	20	1	21.40
					36	39	1	21.59
					75	0	1	21.47
		18675	1857.5		1	0	1	21.63
					1	37	1	21.50
					1	74	1	21.48
				16QAM	36	0	2	20.46
				-	36	20	2	20.50
					36	39	2	20.44
					75	0	2	20.56
					1	0	0	22.23
					1	37	0	22.45
					1	74	0	22.33
				QPSK	36	0	1	21.34
					36	20	1	21.49
		18900			36	39	1	21.51
	4.5		1000.0		75	0	1	21.29
2	15		1880.0		1	0	1	21.41
					1	37	1	21.37
					1	74	1	21.40
				16QAM	36	0	2	20.24
					36	20	2	20.59
					36	39	2	20.36
					75	0	2	20.38
					1	0	0	22.33
					1	37	0	22.21
					1	74	0	22.35
				QPSK	36	0	1	21.44
					36	20	1	21.25
					36	39	1	21.53
		19125	1902.5		75	0	1	21.39
		19120	1302.3		1	0	1	21.51
					1	37	1	21.47
					1	74	1	21.42
				16QAM	36	0	2	20.34
					36	20	2	20.35
					36	39	2	20.38
					75	0	2	20.48





Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
	(1011 12)		(2)		1	0	0	22.76
					1	49	0	22.67
					1	99	0	22.72
				QPSK	50	0	1	21.57
				α. σ. τ	50	24	1	21.41
					50	50	1	21.60
					100	0	1	21.48
		18700	1860.0		1	0	1	21.64
					1	49	1	21.51
					1	99	1	21.49
				16QAM	50	0	2	20.47
					50	24	2	20.51
					50	50	2	20.45
					100	0	2	20.57
					1	0	0	22.84
					1	49	0	22.70
					1	99	0	22.52
				QPSK	50	0	1	21.35
					50	24	1	21.50
					50	50	1	21.52
0	20	40000	1880.0		100	0	1	21.30
2	20	18900	1880.0		1	0	1	21.42
					1	49	1	21.38
					1	99	1	21.41
				16QAM	50	0	2	20.25
					50	24	2	20.60
					50	50	2	20.37
					100	0	2	20.39
					1	0	0	22.63
					1	49	0	22.46
					1	99	0	22.52
				QPSK	50	0	1	21.45
					50	24	1	21.26
					50	50	1	21.54
		19100	1900.0		100	0	1	21.40
		10100	1000.0		1	0	1	21.52
					1	49	1	21.48
					1	99	1	21.43
				16QAM	50	0	2	20.35
					50	24	2	20.36
					50	50	2	20.39
					100	0	2	20.49

ERP (dBm):

	Te	st M	lode)		V	/CDM	A Ba	and II			Т	est Da	ate			2021	1/9/17	
	Tes	t Ch		el				9662	2			Po	olarizat					rtical	
		Tem	ıρ				2	5°C					Hum.				52	2%	
40.0	dBm																		7
30																			-
20		1 X																	
10																			
0																			
-10																			
-20																			
-30																			
-40																			
-50																			-
-60.0																			
1832	2.400		.16	1869	.92	1888	3.68	1907	7.44	1926	.20	1944	.96	1963.	72	1982	.48	2020.00	MHz
No.	I	Mk.		Freq	•		ding vel		rrect actor		easur ment	e-	Limit		Ove	r			
				MHz		dE	3m		dB		dBm		dBm		dB		Detector	Comme	ent
1		*		1851.2	29	-19	.46	39	9.67	2	20.21		33.01		-12.8	0	peak		

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	Test N			W			and II				Test Da					21/9/17	
	Test Ch		el			9662	2			Р	olariza					rizontal	
	Ten	ηp			2	5°C					Hum					52%	
10.0	dBm																\neg
30																	
:o		1 X															
o																	
· _																	-
10																	
20																	
30																	-
40																	-
50																	-
60.0																	
	400 1851	.16	1869.92	1888.		1907		1926		194		1963		1982	2.48	2020.00	МН
No.	Mk.		Freq.	Read Lev			rrect actor		easur ment	e-	Limit		Ove	er			
			MHz	dBr	n	(dB		dBm		dBm		dE	3	Detector	Comm	ent
1	*	1	853.618	-18.	14	40	0.60	2	22.46		33.01		-10.	55	peak		

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	Test N	Node	e	WC	CDMA	A Band II			Test Da	ite	202	1/9/17	
	Test Ch	nanr	el		CH9	008		F	Polarizat	tion	Ve	rtical	
	Ter	np			25	°C			Hum.		5	2%	
10.0	dBm												7
10													-
:0				1 ×									
o													
-													-
10													1
20													
30													1
40													
50													-
60.Q													
	2.400 185		1869.92	1888.6	_	1907.44	1926.20				1982.48	2020.00	МН
No.	Mk.		Freq.	Readi Leve		Correct Factor	Meas me		Limit	Ove	Г 		
			MHz	dBm	1	dB	dB	m	dBm	dB	Detector	Comme	ent
1	*		1881.201	-20.2	5	39.79	19.	54	33.01	-13.4	7 peak		

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	Test M Test Cha				V		//A Ba	and II				Test Da olariza					21/9/17 rizontal	
	Tem		C I				5°C	,				Hum				ПС	52%	
40.0 c	∃Bm	יף					0 0					Hairi	•				02 /0	
30																		
20				1 >	(
0																		_
ı																		_
10																		4
20																		\dashv
30 -																		_
40																		\dashv
50																		
60.0																		
	100 1851.	.16	1869.		1888		1907		1926			4.96	1963		1982	2.48	2020.	00 №
No.	Mk.		Freq.	•	Rea Le	ding vel		rrect actor		easur ment	e-	Limit		Ove	er			
			MHz		dE	3m		dB		dBm		dBm		dE	3	Detecto	r Com	men
1	*	1	878.9	50	-17	.85	4(0.73	2	22.88		33.01		-10.	13	peak		

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	Test M	ode		\	VCDI	/IA B	and II				Test Da	ate			202	21/9/17	
•	Test Cha	anne	l			19938	3			Р	olariza	tion			Ve	ertical	
	Tem	р			2	5°C					Hum				;	52%	
40.0	dBm																\neg
30																	
20							1 X										
10							× 										\parallel
,																	
10 —																	-
20																	-
30																	+
40																	
50																	-
60.0																	
	400 1851.		1869.92			1907		1926		194		1963		1982	2.48	2020.0) MH
No.	Mk.		Freq.		iding evel		rrect actor		easur ment	e- 	Limit		Ove	er			
			MHz	dl	3m	(dB		dBm		dBm		dE	3	Detector	r Comm	nent
1	*	19	08.791	-24	1.09	39	9.89	•	5.80		33.01		-17.:	21	peak		

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	Test Mod			/IA Band II		Test Dat			1/9/17
Т	est Chan	nel		19938		Polarizati	ion		zontal
	Temp		2	5°C		Hum.		52	2%
10.0 d	Bm								
30									
20				1 ×					
0									
·									
10									
20									
30 -									
40 -									
50									
60.a									
	00 1851.16		1888.68	1907.44				2.48	2020.00 MI
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1906.458	-18.73	40.87	22.14	33.01	-10.87	peak	

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	Test Mod			Band 2		Test Date			1/9/16
	Test Chan	nel		18700		Polarization	on		rtical
10.0 d	Temp			2°C		Hum.		54	4%
10.0 0	IBM								
30									
20		1 X							
0									
ı									
10									
20									
30									
40									
50									
60.0									
	00 1840.00		1860.00	1870.00				0.00	1930.00 M
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	- Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Commen
1	*	1851.127	-20.35	39.67	19.32	33.01	-13.69	peak	-

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	Test Mod			Band 2		Test Date			1/9/16
	Test Chan	nel		18700		Polarizatio	on		zontal
	Temp		2	2°C		Hum.		5.	4%
10.0 d	IBm .								
10		1							
0		×							
0 -									
10									
20									
30									
40									
50									
60.a									
	00 1840.00		1860.00	1870.00				0.00	1930.00 MI
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1851.100	-15.90	40.59	24.69	33.01	-8.32	peak	_

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

-	Test Mod Test Chan			Band 2 18900		Test Date Polarizatio			1/9/16 rtical
	Temp	illi		2°C		Hum.	'I I		4%
4 0.0 (dBm								.,,
30									
20				1 X					
10									
o									
10									
20									
30									
40									
-50									
-60.0									
	000 1840.00	1850.00	1860.00	1870.00				0.00	1930.00 MF
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1871.093	-19.73	39.75	20.02	33.01	-12.99	peak	

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	Test Mo	ode	LTE	Band 2		Test Date	е	202	1/9/16
•	Test Cha	annel		18900		Polarization	on	Hori	zontal
	Tem	р	2	2°C		Hum.		5	4%
40.0	dBm								
30									
~ -				X					
20 —									
10									
o									
10									
20									
30									
40									
50									
60.0	200 4047	1050	1000.05	1070.00	1000.00	1000.00	000.00		1000.05
	000 1840.		1860.00	1870.00				10.00	1930.00 M
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Commen
1	*	1871.140	-14.94	40.69	25.75	33.01	-7.26	peak	

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	Test Mo	ode	LTE	Band 2		Test Date	e	202	1/9/16	
	Test Cha	innel	CH	19100		Polarization		Vertical		
	Temp	0	2	2°C		Hum.		5	4%	
40.0	dBm									í
30										
						1				
20						X X				
10										
o										
10										
20										
30										
40										
·50 —										
-60.0	200 1015	1050 55	1000.05	1070.00	1000.00	200 00 7	000 00		1000.05	
1830.1 No.	000 1840.0 Mk.		1860.00 Reading	1870.00 Correct	1880.00 1 Measure-		900.00 191 Over	10.00	1930.00	МН
INO.	IVIN.	Freq.	Level	Factor	ment	LIIIII	Ovel			
		MHz	dBm	dB	dBm	dBm	dB	Detector	Commer	nt
1	*	1891.120	-20.68	39.83	19.15	33.01	-13.86	peak		

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	Test Mod		LTE	Band 2		Test Da	ate	202	1/9/16
•	Test Char	nnel		19100		Polarization			zontal
	Temp		2	2°C		Hum		5	4%
40.0	dBm								
30						1.			
20						×			
0 —									
10									
20									
30									
40									
50 —									
60.0									
	000 1840.00		1860.00	1870.00	1880.00	1890.00		910.00	1930.00 MH
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure ment	- Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1891.093	-15.68	40.79	25.11	33.01	-7.90	peak	

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.



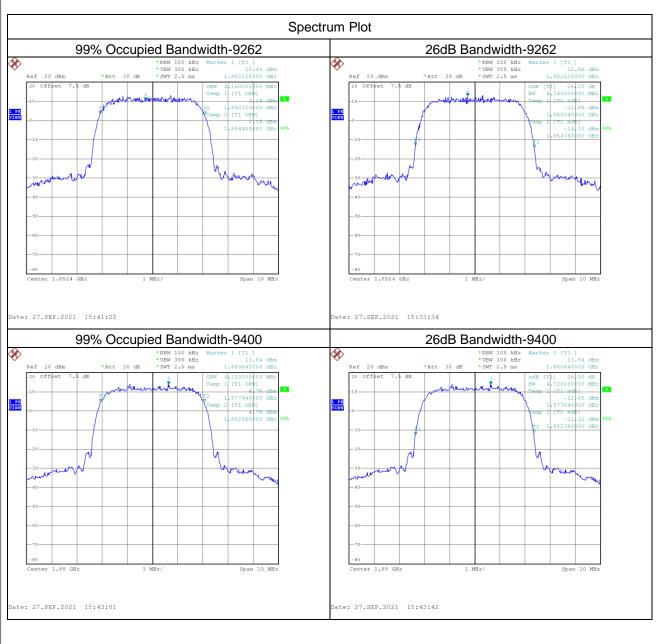


APPENDIX C	OCCUPIED BANDWIDTH	
	APPENDIX C	APPENDIX C OCCUPIED BANDWIDTH

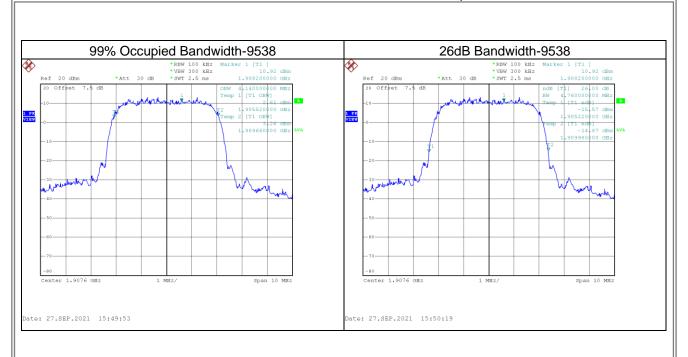
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WCDMA Band II_WCDMA								
	QPSK							
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
9262	1852.4	4.16	9262	1852.4	4.74			
9400	1880	4.12	9400	1880	4.72			
9538	1907.6	4.14	9538	1907.6	4.76			





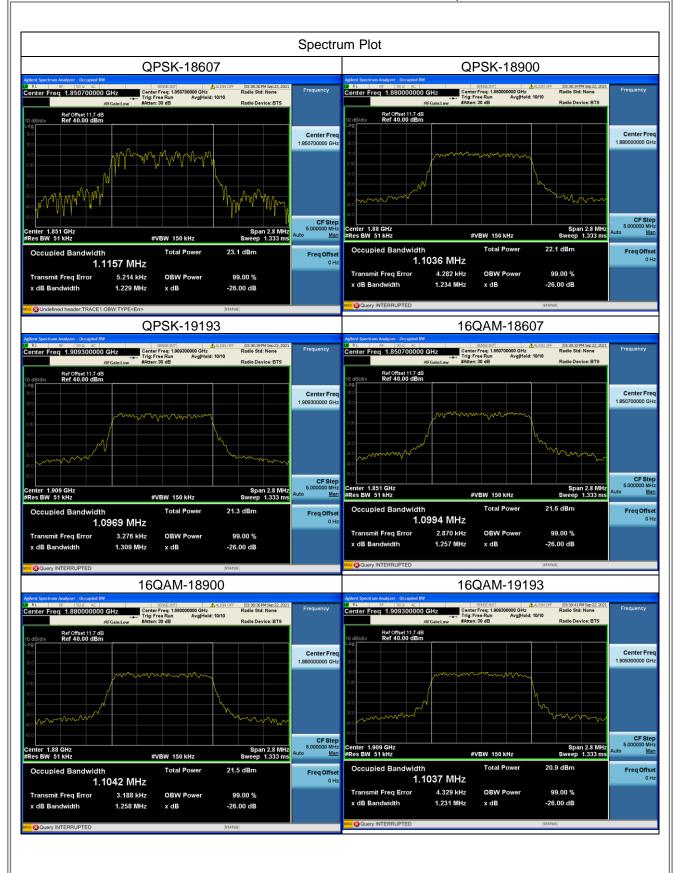






	LTE Band 2_1.4M							
	QPSK							
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
18607	1850.7	1.1157	18607	1850.7	1.229			
18900	1880	1.1036	18900	1880	1.234			
19193	1909.3	1.0969	19193	1909.3	1.309			
		16Q <i>A</i>	λM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
18607	1850.7	1.0994	18607	1850.7	1.257			
18900	1880	1.1042	18900	1880	1.258			
19193	1909.3	1.1037	19193	1909.3	1.231			



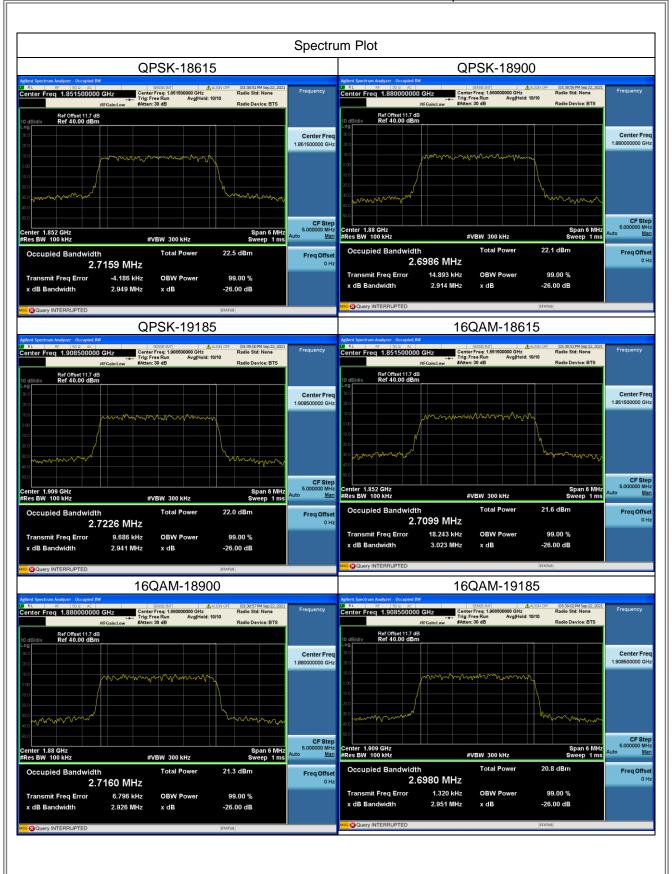






	LTE Band 2_3M							
	QPSK							
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
18615	1851.5	2.7159	18615	1851.5	2.949			
18900	1880	2.6986	18900	1880	2.914			
19185	1908.5	2.7226	19185	1908.5	2.941			
		16Q <i>A</i>	λM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
18615	1851.5	2.7099	18615	1851.5	3.023			
18900	1880	2.7160	18900	1880	2.926			
19185	1908.5	2.6980	19185	1908.5	2.951			



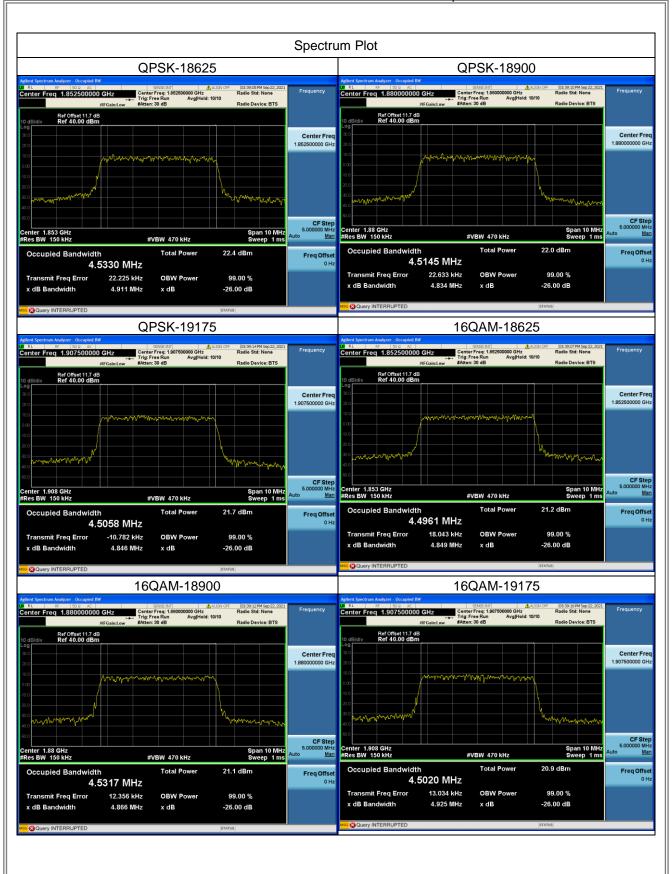






	LTE Band 2_5M							
	QPSK							
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
18625	1852.5	4.5330	18625	1852.5	4.911			
18900	1880	4.5145	18900	1880	4.834			
19175	1907.5	4.5058	19175	1907.5	4.846			
		16Q <i>A</i>	M					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
18625	1852.5	4.4961	18625	1852.5	4.849			
18900	1880	4.5317	18900	1880	4.866			
19175	1907.5	4.5020	19175	1907.5	4.925			



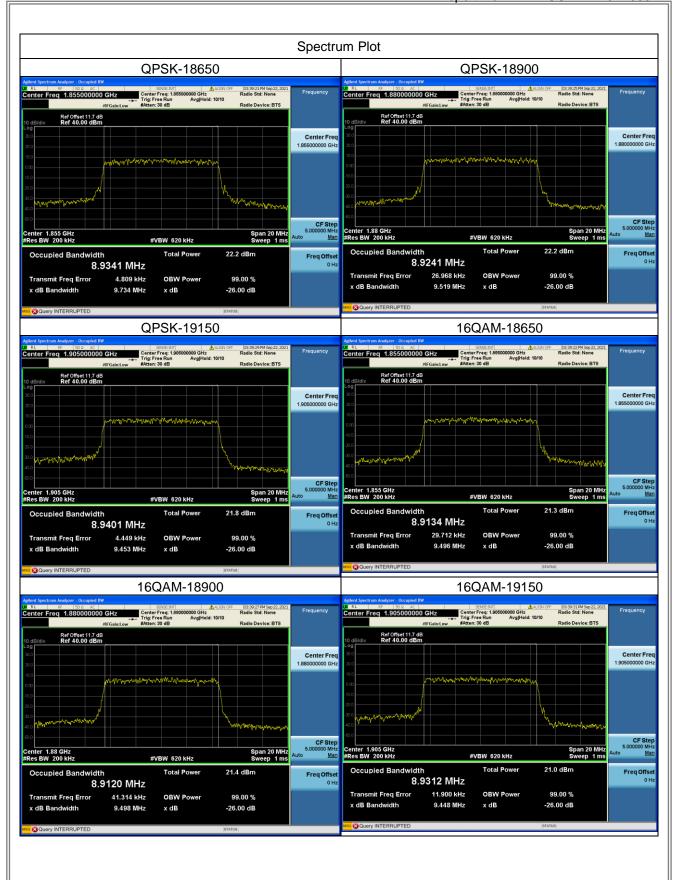






	LTE Band 2_10M							
	QPSK							
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
18650	1855	8.9341	18650	1855	9.734			
18900	1880	8.9241	18900	1880	9.519			
19150	1905	8.9401	19150	1905	9.453			
		16Q <i>A</i>	λM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
18650	1855	8.9134	18650	1855	9.496			
18900	1880	8.9120	18900	1880	9.498			
19150	1905	8.9312	19150	1905	9.448			



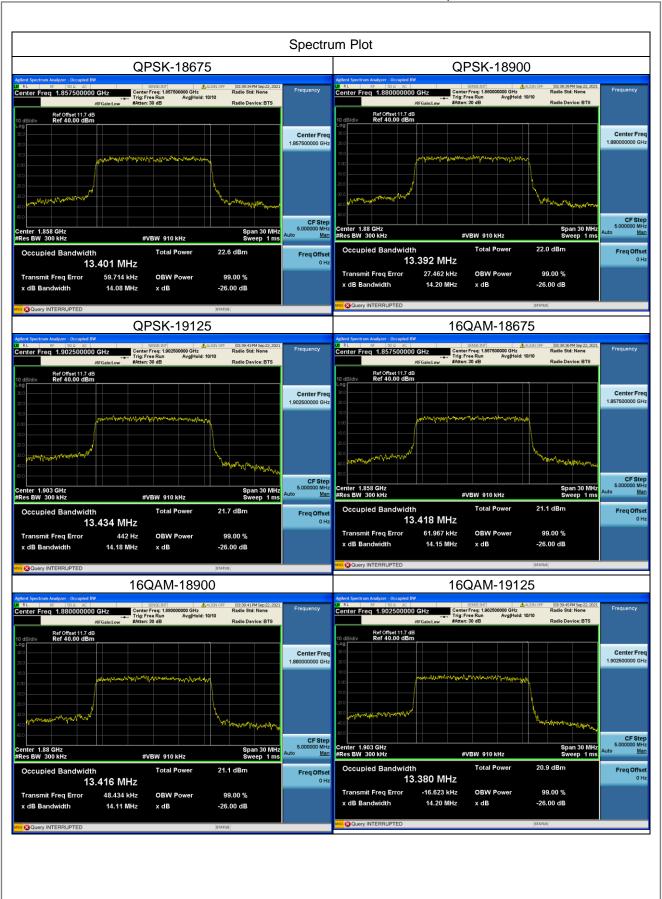






	LTE Band 2_15M							
QPSK								
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz			
18675	1857.5	13.401	18675	1857.5	14.08			
18900	1880	13.392	18900	1880	14.20			
19125	1902.5	13.434	19125	1902.5	14.18			
		16Q <i>A</i>	λM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
18675	1857.5	13.418	18675	1857.5	14.15			
18900	1880	13.416	18900	1880	14.11			
19125	1902.5	13.380	19125	1902.5	14.20			



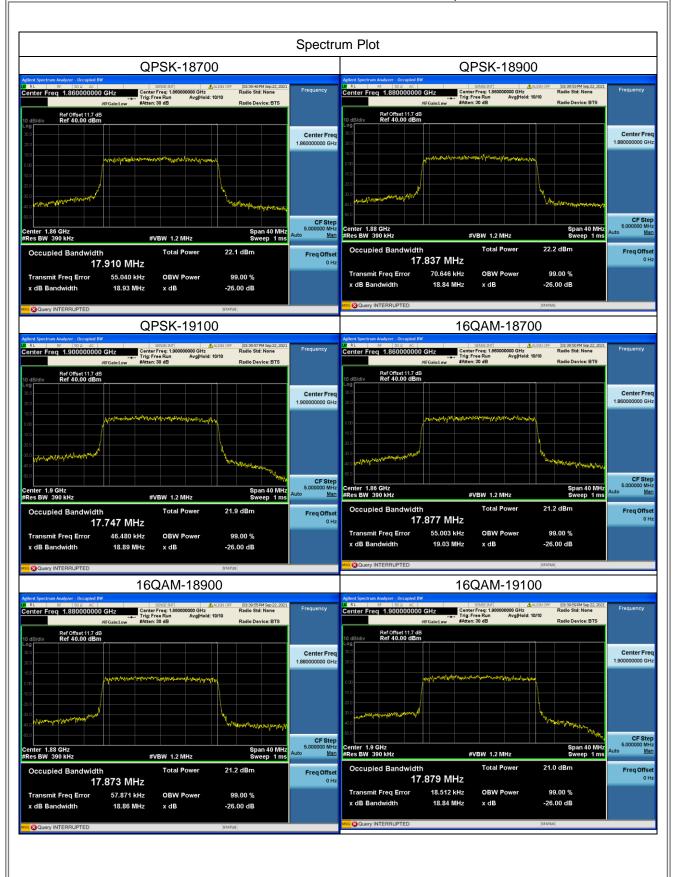






	LTE Band 2_20M							
	QPSK							
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz			
18700	1860	17.910	18700	1860	18.93			
18900	1880	17.837	18900	1880	18.84			
19100	1900	17.747	19100	1900	18.89			
		16Q <i>A</i>	λM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
18700	1860	17.877	18700	1860	19.03			
18900	1880	17.873	18900	1880	18.86			
19100	1900	17.879	19100	1900	18.84			



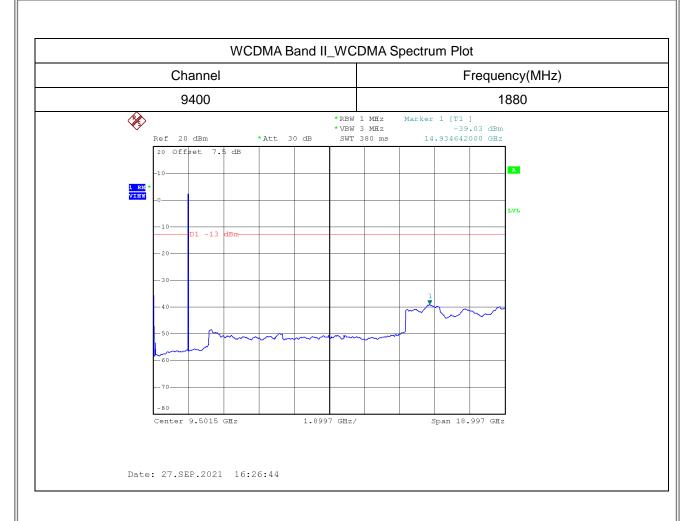




APPENDIX D CONDUCTED SPURIOUS EMISSION

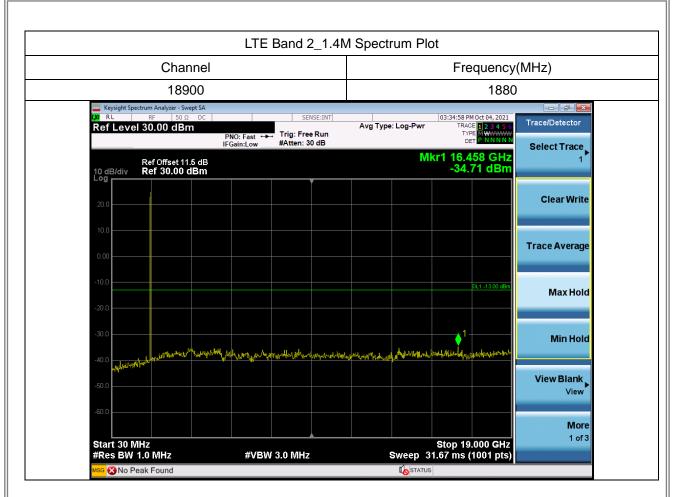
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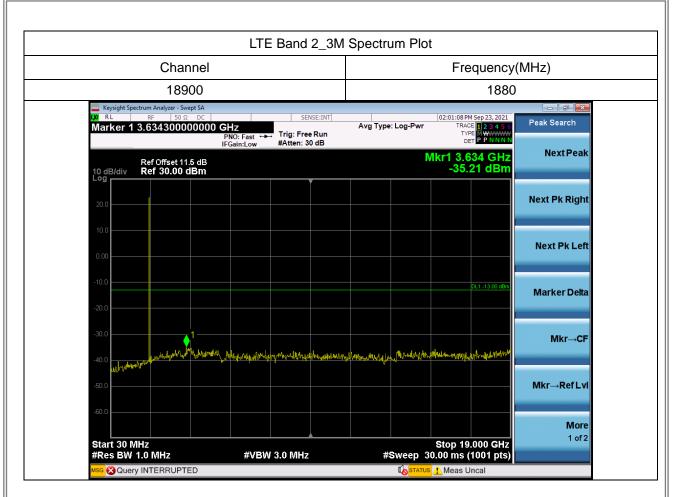






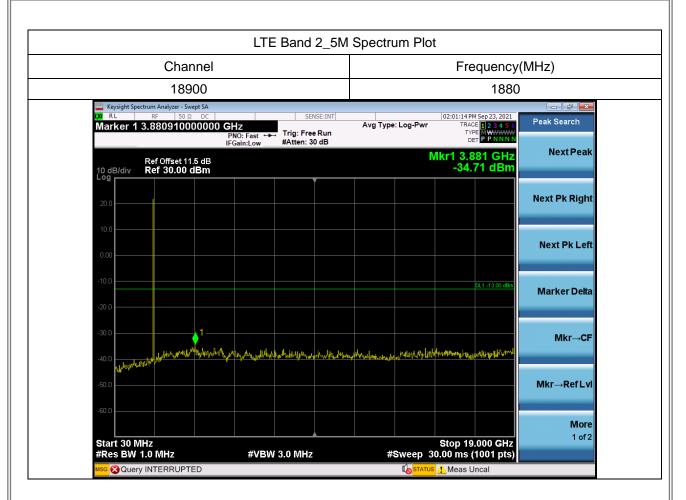






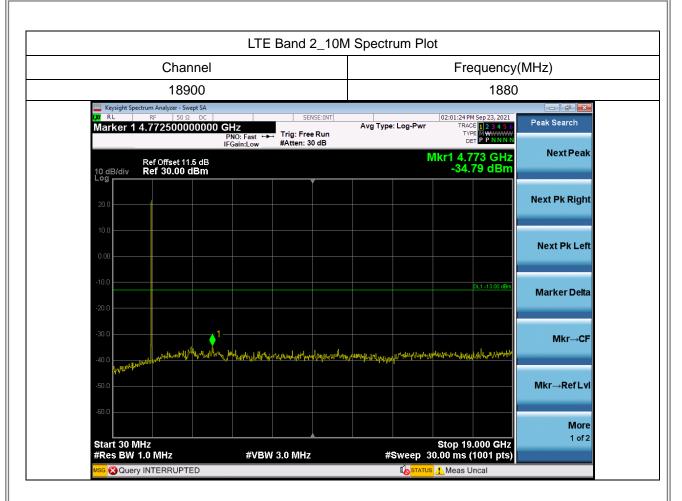






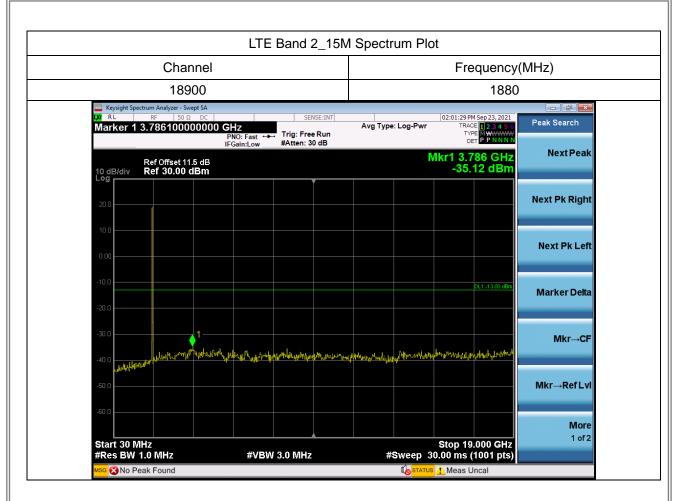






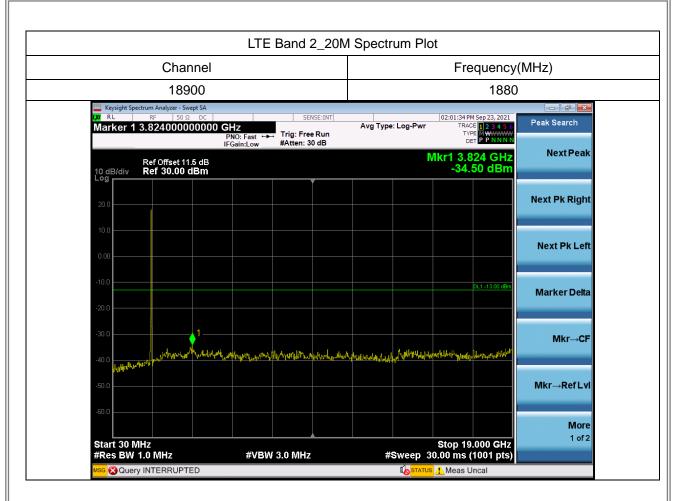














APPENDIX E	RADIATED SPURIOUS EMISSIONS TEST

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	Test Mo		V	VCDN	IA Band II			Test Date		202	1/9/17	
7	est Cha	nnel		CH	19800		F	Polarizatio	n	Ve	rtical	
	Temp)		2	5°C			Hum.		5	2%	
0.0 d	Bm											_
10												4
20												-
30												1
-40												
-50												
30												
-60	1 X		2 X					5 X				+
-70	^			X			4	×			Ř 6	
-80												\parallel
-90												
-100.0												
30.000	127.00	224.00	321.	.00	418.00	515.0	00 61:	2.00 70	9.00 806	5.00	1000.00	_мн
No.	Mk.	Freq.		ding	Correct	Me	asure-	Limit	Over			
				vel	Factor		nent					
4		MHz		3m	dB		dBm	dBm	dB	Detector	Comm	ent
1	*	119.0783		2.92	-0.70		33.62	-13.00	-50.62	peak		
2	.,	279.4516		3.83	7.67		31.16	-13.00	-48.16	peak		
3		345.3470 587.2325		3.50 7.84	7.11 11.81		66.39 66.03	-13.00 -13.00	-53.39 -53.03	peak		
5		666.3523		7.69	13.20		64.49	-13.00	-53.03 -51.49	peak		
6		921.2036		3.54	11.64		66.90	-13.00	-51.49	peak peak		

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	Test Mo				/IA Band II			Test Date			1/9/17	
Te	est Char				19800			Polarizatio	on	Horizontal		
	Temp			2	5°C			Hum.		52	2%	
0.0 dE	im .											٦
-10												
-20												-
30												-
-40												-
-50												-
60	X	Š	}	4 ×		5 X			6 X			-
-70				×		<u> </u>						
-80												
.90												-
100. <mark>0</mark> 30.000	127.00	224.00	32	.00	418.00	515.00	61	2.00 70	9.00 806	.00	1000.00	_
No.	Mk.	Freq.		ading evel	Correct Factor	Meas		Limit	Over			
		MHz	d	Bm	dB	dE	m	dBm	dB	Detector	Comm	ent
1	*	121.632	6 -6	0.95	2.56	-58	.39	-13.00	-45.39	peak		
2		243.335	3 -6	3.54	-0.55	-64	.09	-13.00	-51.09	peak		
3		243.335		3.54	-0.55	-64	.09	-13.00	-51.09	peak		
4		369.209	0 -7	1.33	4.89	-66	.44	-13.00	-53.44	peak		
5		474.357	0 -7	6.73	11.95	-64	.78	-13.00	-51.78	peak		
6		770.562	6 -7	7.20	13.76	-63	44	-13.00	-50.44	peak		

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	Test Mo	de	WCDN	/IA Band II		Test Date	1	202	1/9/17	
	Test Char			19800		Polarizatio			rtical	
	Temp			5°C		Hum.		52%		
0.0	dBm									
-10										
20										
30			1							
40			^							
50										
60										
70										
80										
90										
100.0										
	0.000 2900.00		6700.00	8600.00				00.00	20000.00 MH:	
No.	. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment	
1	*	5642.967	-38.24	2.58	-35.66	-13.00	-22.66	peak		

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	Test M	nde	\	VCDN	/Δ Ra	nd II			-	Test Da	ate		202	1/9/17	
	Test Cha		V		19800					olariza				zontal	
	Tem				5°C			Hum.					52%		
0.0	dBm									i					
-10															
20															
30															
40			1 X												
50															
60															
70															
80															
90															
100.0											1100-				
	0.000 2900.				8600.		1050				14300.		200.00	20000.00 MF	
No.	Mk.	Freq.		iding evel		rect ctor		asur nent	9-	Limit		Over			
		MHz	dl	3m	С	ΙB	(dBm		dBm		dB	Detector	Comment	
1	*	5637.90	0 -48	3.31	2.	98	-4	45.33		-13.00) 	-32.33	peak		

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	Test Mo			LTE	Band 2		Test Da	te	202	1/9/17	
Te	est Char				18900		Polarizat	ion		rtical	
	Temp			2	:5°C		Hum.		5	2%	
0.0 dE	m			1							7
-10											
-20											
-30											
-40											
-50											
-60	1 X		2 ×	3 X			4	5 X		c	
-70	×						4	×		× ×	-
-80											
-90											-
-100.0											
30.000	127.00			321.00	418.00				5.00	1000.00	МН
No.	Mk.	Freq.		Reading Level	Correct Factor	Measure ment	- Limit	Over			
		MHz		dBm	dB	dBm	dBm	dB	Detector	Comm	ent
1		117.914	3	-63.61	-0.63	-64.24	-13.00	-51.24	peak		
2	*	242.397	6	-68.71	7.73	-60.98	-13.00	-47.98	peak		
3		309.715	6	-68.93	7.54	-61.39	-13.00	-48.39	peak		
4		583.579	0	-77.75	11.55	-66.20	-13.00	-53.20	peak		
5		705.378	6	-77.61	12.85	-64.76	-13.00	-51.76	peak		
6		925.504	0	-78.19	11.75	-66.44	-13.00	-53.44	peak		

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	Test Mo			E Band 2		Test Date			1/9/17	
Te	est Char	nnel		118900		Polarization	1		zontal	
	Temp		2	25°C		Hum.		5	2%	
0.0 dE	im .									7
-10										
-20										-
-30										-
-40										-
-50										-
-60	1 X	2 X	X X	4 *		_		6 X		-
-70		^		^		5 X				-
-80										
-90										
-100. <mark>0</mark> 30.000	127.00	224.00	321.00	418.00	515.00 6	12.00 7 09	0.00 806	5.00	1000.00	_ _MH:
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comme	ent
1	*	118.4640	-60.39	2.63	-57.76	-13.00	-44.76	peak		
2		240.4900	-64.63	-0.48	-65.11	-13.00	-52.11	peak		
3		328.3073		2.68	-61.40	-13.00	-48.40	peak		
4		452.6936	-77.38	12.37	-65.01	-13.00	-52.01	peak		
5		691.7016	-77.40	9.01	-68.39	-13.00	-55.39	peak		
6	·	825.2383	-77.34	15.81	-61.53	-13.00	-48.53	peak		

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	Test M	lode		LTE Ba	nd 2			Test Da	tο	20	21/9/16	
	Test Ch			CH189				Polarizat			ertical	
	Tem			22°C			<u> </u>	Hum.		54%		
0.0	dBm											
-10												
20												
30			1 *									
40												
50 _												
60												
70												
80												
90												
100.0	000 000	00 4000	0 0700	00 00	00.00	10000	0 10	100.00	1 1000 00	10000 00	20000 00	
No.	0.000 2900 Mk.	.00 4800.0 Freq.	0 6700 Read Lev	ding C	oo.oo Correct actor	10500.0 Meas	ure-	Limit	14300.00 Ove	16200.00 er	20000.00 MH	
		MHz	dB		dB	dB		dBm	dE	B Detecto	r Comment	
1	*	5613.20			2.13	-34.		-13.00	-21.4			

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	Test Mod	de	LTE	Band 2		Test Date)	202	1/9/16	
	Test Chan			18900		Polarizatio			zontal	
	Temp		2	2°C		Hum.		54%		
).O 	dBm									
10										
20										
30										
40			i K							
50										
60										
70										
80										
90 100.0										
	00.000 2900.00		6700.00	8600.00				200.00	20000.00 MH	
No	. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment		Over			
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment	
1	*	5613.200	-42.48	3.22	-39.26	-13.00	-26.26	peak		

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

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