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# **ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT**





**Applicant:** Telit Communications S.p.A.

Via Stazione di Prosecco 5/b 34010 Sgonico - Trieste

LN920A12-WW / LN920A6-WW **Product Name:** 

**Brand Name:** Telit

Model No.: LN920A12-WW / LN920A6-WW

**Model Difference:** Refer to Page 4

ER/2021/A0030-01 **Report Number:** 

FCC ID **RI7LN920** 

IC: 5131A-LN920

**Issue Date:** March 16, 2022

**Date of Test:** October 6, 2021~January 26, 2022

Date of EUT Received: October 6, 2021

Approved By

### We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI ANSI C63.26-2015 and the energy emitted by the sample EUT comply with FCC rule part 2, 22H & 27C and ISED RSS-Gen, 132, 199.

The results of this report relate only to the sample identified in this report.

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Revision History						
Report Number	Revision	Description	Issue Date	Revised By	Remark	
ER/2021/A0030-01	00	Inserting section 1.2 to address model difference.	March 16, 2022	Susan Lin		

### Note:

- 1 . The remark "\*" indicates modification of the report upon requests from certification body.
- 2 Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received and are assessed as identical in hardware and firmware to each other.
- 3 \ Please note that the report ER/2021/A0030-01 will replace the previous ER/2021/A0030 as the new version and ER/2021/A0030 is ineffective anymore from now on.

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# **GENERAL PRODUCT INFORMATION**

#### 1.1 **Product Description**

Product Name:	LN920A12-WW / LN920A6-WW
Brand Name:	Telit
Model No.:	LN920A12-WW / LN920A6-WW
Model Difference:	Internal Component is different between two model.     Capability is different between two model.
Hardware Version:	1.0
Firmware Version:	LN920A12-WW: M0L.000001 / LN920A6-WW: M0L.010001
EUT Series No.:	35417570001280
Power Supply:	3.3Vdc
Test Software (Name/Version):	N/A

#### 1.2 Model difference

- The mobile data modem chip on U200 between two models are pin for pin compatible with identical internal circuits.
- The LN920A6-WW uses MOBILE DATA MODEM SDX12-2 with CAT12 features disabled by a fuse bit with different FVIN.
- The **LN920A12-WW** is tested as the representative sample with the most modem capabilities.

Model	FVIN	Component on U200	Modem Capability
LN920A12-WW	M0L.000001	MOBILE DATA MODEM SDX12-0	LTE, 4 × 4 MIMO, CA 60 MHz DL 256QAM DL, CA 40 MHz UL, 64 QAM UL,
LN920A6-WW	M0L.010001	MOBILE DATA MODEM SDX12-2	LTE, 4 × 4 MIMO, CA 40 MHz DL, 64 QAM DL, CA 20 MHz UL, 16 QAM UL

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### **Operation Frequency Range** 1.3

	LTE Band 5			
BW (MHz)	Operation Frequency (MHz)			
1.4	824.7 - 848.3			
3	825.5 - 847.5			
5	826.5 - 846.5			
10	829.0 - 844.0			
	LTE Band 7			
BW (MHz)	Operation Frequency (MHz)			
5	2502.5 - 2567.5			
10	2505.0 - 2565.0			
15	2507.5 - 2562.5			
20	2510.0 - 2560.0			
LTE Band 38				
BW (MHz)	Operation Frequency (MHz)			
5	2572.5 - 2617.5			
10	2575.0 - 2615.0			
15	2577.5 - 2612.5			
20	2580.0 - 2610.0			
I	LTE Band 41			
BW (MHz)	Operation Frequency (MHz)			
5	2498.5 - 2687.5			
10	2501.0 - 2685.0			
15	2503.5 - 2682.5			
20	2506.0 - 2680.0			
LTE I	Band 41 RSS-199			
BW (MHz)	Operation Frequency (MHz)			
5	2502.5 - 2687.5			
10	2505.0 - 2685.0			
15	2507.5 - 2682.5			
20	2510.0 - 2680.0			

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# **Antenna Designation**

Antenna Type	Antenna Model No.	
Monopole	TG.55.8113	
<b>Note:</b> Transmission frequencies in this test report are only available by the above antenna(s).		

Туре	Modulation	Freque (MH	•	Peak Antenna Gain (dBi)
	LTE-Band 5	824 ~	849	3.2
Mananala	LTE-Band 7	2500 ~	2570	3.12
Monopole	LTE-Band 38	2570 ~	2620	3.12
	LTE-Band 41	2496 ~	2690	3.12

**Note:** Antenna information is provided by the applicant.

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### 1.5 Type of Emission & Max ERP/EIRP Power Measurement Result:

#### 1.5.1 Intra-Band

			EDD /	<u> </u>			T .
LTE	BW	Modulation		ERP / EIRP		99%	Type of
Band			(dB		` '		Emission
		QPSK	24.79	ERP	0.301	13.8270	13M8G7D
5B	15	16QAM	23.72	ERP	0.236	13.8370	13M8D7W
		64QAM	21.79	ERP	0.151	13.8240	13M8D7W
		QPSK	24.66	ERP	0.292	18.7970	18M8G7D
5B	20	16QAM	23.83	ERP	0.242	18.6920	18M7D7W
		64QAM	21.62	ERP	0.145	18.7390	18M7D7W
LTE	BW	Modulation	ERP /	EIRP	(W)	99%	Type of
Band	אט	Modulation	(dB	m)	(۷۷)	3370	Emission
		QPSK	27.00	EIRP	0.501	28.4610	28M5G7D
7C	30	16QAM	25.92	EIRP	0.391	28.4050	28M4D7W
		64QAM	23.73	EIRP	0.236	28.3650	28M4D7W
		QPSK	26.84	EIRP	0.483	32.6960	32M7G7D
7C	35	16QAM	25.88	EIRP	0.387	32.7190	32M7D7W
		64QAM	23.70	EIRP	0.234	32.6770	32M7D7W
		QPSK	26.89	EIRP	0.489	37.7060	37M7G7D
7C	40	16QAM	25.91	EIRP	0.390	37.7060	37M7D7W
		64QAM	24.00	EIRP	0.251	37.6690	37M7D7W
LTE			ERP /				Type of
Band	BW	Modulation	(dB		(W)	99%	Emission
Danu		ODCK	`		0.440	00 2470	
38C	30	QPSK	26.49	EIRP	0.446	28.3470	28M3G7D
300	30	16QAM	25.38	EIRP	0.345	28.4020	28M4D7W
		64QAM	23.65	EIRP	0.232	28.3300	28M3D7W
200	40	QPSK	26.42	EIRP	0.439	37.6930	37M7D7W
38C	40	16QAM	25.38	EIRP	0.345	37.7410	37M7D7W
		64QAM	23.62	EIRP	0.230	37.7060	37M7D7W
LTE	BW	Modulation	ERP /		(W)	99%	Type of
Band			(dB				Emission
		QPSK	26.80	EIRP	0.479	22.9400	22M9G7D
41C	25	16QAM	26.21	EIRP	0.418	22.9080	22M9D7W
		64QAM	24.20	EIRP	0.263	22.9010	22M9D7W
		QPSK	26.73	EIRP	0.471	28.3890	28M4G7D
41C	30	16QAM	25.87	EIRP	0.386	28.3880	28M4D7W
		64QAM	23.92	EIRP	0.247	28.3130	28M3D7W
		QPSK	26.94	EIRP	0.494	32.6870	32M7G7D
41C	35	16QAM	25.48	EIRP	0.353	32.6450	32M6D7W
		64QAM	23.58	EIRP	0.228	32.6400	32M6D7W
		QPSK	26.61	EIRP	0.458	37.6560	37M7G7D
41C	40	16QAM	25.65	EIRP	0.367	37.5840	37M6D7W
		64QAM	23.67	EIRP	0.233	37.6630	37M7D7W

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### 1.6 **Test Methodology of Applied Standards**

FCC 47 CFR Part 2, 22H, 27C.

ISED RSS-132 Issue 3 Jan. 2013

ISED RSS-199 Issue 3 Dec. 2016

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

KDB412172 D01 Determining ERP and EIRP v01r01

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#### 1.7 **Test Facility**

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier
		SAC 1		
		SAC 3		
		Conduction 1		
	No.134, Wu Kung Road, New Taipei	Conducted 1		
	Industrial Park, Wuku District, New	Conducted 2	TW0027	
	Taipei City, Taiwan.	Conducted 3		
		Conducted 4		
		Conducted 5		
SGS Taiwan Ltd.		Conducted 6		
Central RF Lab.		Conduction C		TW3702
(TAF code 3702)		SAC C		1003702
(1A1 Code 3702)		SAC D		
		SAC G		
	No 2 Kaji 1at Dd. Cujahan Diatriat	Conducted A	TW0028	
	No.2, Keji 1st Rd., Guishan District,	Conducted B	TW0028	
	Taoyuan City, Taiwan 333	Conducted C		
		Conducted D	TW0027	
		Conducted E		
		Conducted F		
		Conducted G	1	

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

#### 1.8 Special Accessories

No special accessories were used during testing.

#### 1.9 **Equipment Modifications**

There was no modifications incorporated into the EUT.

### Radiated Emission Test Sites for Measurements from 9 kHz to 30 MHz

Radiated emission below 30MHz is measured in a 9m\*6m\*6m semi-anechoic chamber. the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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### SYSTEM TEST CONFIGURATION

#### 2.1 **EUT Configuration**

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

#### 2.2 **EUT Exercise**

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

#### 2.3 **Test Procedure**

#### 2.3.1 **Conducted Measurement at Antenna Port**

The EUT is placed on a table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

#### 2.3.2 Radiated Emissions (ERP/EIRP)

The EUT is placed on a turn table, for emission measurements below 1 GHz is 0.8 m above ground plane, for emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

#### 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 attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

### Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor. Following shows an offset computation in physical test.

Frequency	RF Cable loss (dB)	Attenuation (dB)	Offset (dB)
LB(1GHz below)	4.22	10	14.22
MB(2GHz - 3GHz)	4.83	10	14.83

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#### 2.5 **Final Amplifier Voltage and Current Information:**

### LTE CA Band 5B

T est mode	DC voltage (V)	DC current (mA)
LTE CA Band 5B 10M+10M QPSK	3.3	455

# LTE CA Band 7C

T est mode	DC voltage (V)	DC current (mA)
LTE CA Band 7C 20M+20M QPSK	3.3	468

# LTE CA Band 38C

T est mode	DC voltage (V)	DC current (mA)
LTE CA Band 38C	3.3	447
20M+20M QPSK	3.3	447

### LTE CA Band 41C

Test mode	DC voltage (V)	DC current (mA)
LTE CA Band 41C 20M+20M QPSK	3.3	469

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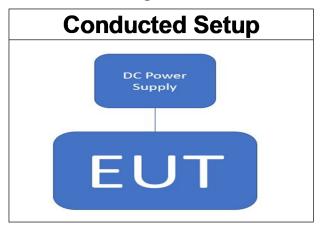
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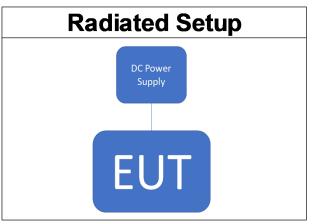
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# 2.6 Test Configuration





Note: Radio Communication Analyzer is placed in remote side for radiated test.

# 2.7 Control Unit(s)

Conducted Emission Test Site: Conducted 4										
EQUIPMENT TYPE	MFR   IASICAL									
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R					

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# **SUMMARY OF TEST RESULTS**

FCC Rules	IC Rules	Description Of Test	Result
§2.1046(a)	RSS-GEN §6.12	RF Power Output	Compliant
§22.913(a)(5) §27.50(h)(2)	RSS-132 §5.4 RSS-199 §4.4	ERP/ EIRP measurement	Compliant
§2.1049(h)	RSS-GEN §6.7	99% & 26dB Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §27.53(m)(4)(6)	RSS-GEN §6.13 RSS-132 §5.5 RSS-199 §4.5	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements	Compliant
§2.1053 §22.917(a) §27.53(m)(4)	RSS-GEN §6.13 RSS-132 §5.5 RSS-199 §4.5	Field Strength of Spurious Radiation	Compliant
§27.50(a)(1)(B)	RSS-132 §5.4 RSS-199 §4.4	Peak to Average Ratio	Compliant
§2.1055(a)(1) §22.355 §27.54	RSS-132 §5.3 RSS-199 §4.3	Frequency Stability	Compliant

### Note

1. All test data is leveraged from test report ER/2021/A0030.

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# **DESCRIPTION OF TEST MODES**

#### 4.1 The Test Channel Details

This device supports with carrier aggregation (two carrier) uplink. Intra-Band contiguous and Inter-Band non-contiguous specification as below:

E-UTRA In	tra-Band CA configuration / Bandwidth combinat	ion set
E-UTRA CA configuration	Component carriers in order of in-creasing carrier frequency Channel bandwidth for PCC and SCC [MHz]	Maximum aggregated band-width [MHz]
CA 5C	5+10 / 10+5	15
OA_50	10+10	20
	10+20 / 20+10 / 15+15	30
CA_7C	15+20 / 20+15	35
	20+20	40
CA 38C	15+15	30
CA_36C	20+20	40
	5+20 / 20+5	25
CA 41C	10+20 / 20+10 / 15+15	30
CA_41C	15+20 / 20+15	35
	20+20	40

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#### 4.2 The Worst-CaseTest Modes and Details

- 1. This EUT is UE LTE 4G 1Tx/2Rx device for single carrier that can support uplink Band 5/7/38/41 with uplink carrier aggregation (CA).
- 2. The worst-case scenario for all measurements is based on the average conducted output power measurement investigation results. Output power measurements were measured on QPSK, 16QAM and 64QAM modulations. It was found that QPSK results the highest, hence all testing was performed using QPSK modulations to represent the worst case.
- Pre-scanned on the lower, middle and the higher cahnnels of each frequency band for occupied bandwidth, frequency stability, conducted unwanted emission and peak to average ratio measurements, the middle one results in the highest emission which demonstrated in this report.
- 4. Measurements of Band Edge and Emission Mask with the widest and narrowest BW combinations were tested. Combinations of same BW is considered equivalent. The RB combinations were selected as the signal activated closest to the band limit for determining the worst case scenario.
- 5. For Out of Band Emissions: The widest and narrowest RB combinations was tested to determine the worst case senario with combinations generate higher emissions.
- 6. The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

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#### 4.2.1 Intra-Band

For uplink Intra-Band CA, evaluation has been done for contiguous and non-contiguous channel and bandwith, configurations that generates highest output power in standalone transmission have been selected for the final test.

		Tes	st Chanı	nel		E	Bandwid	th (MHz	)		N	lodulatio	n			RB#		
Test Items	Band	L	M	Н	15	20	25	30	35	40	QPSK	16QAM	64QAM	Edge left + Edge right	Edge left + Edge left	Edge right + Edge right	Edge right + Edge left	Full
	5B	٧	٧	٧	٧	٧					٧	٧	٧				V	٧
Max. Output	7C	٧	٧	٧				٧	٧	٧	>	>	٧				V	V
Power	38C	٧	٧	V				٧		٧	>	>	٧				V	٧
	41C	V	٧	٧			٧	٧	٧	٧	٧	٧	٧				V	٧
	5B		٧			٧					٧							٧
Freqency	7C		٧							٧	٧							٧
Stability	38C		٧							٧	٧							٧
	41C		V							٧	٧							٧
	Test Channel Bandwidth (MHz)					N	lodulatio	n			RB#							
Test Items	Band	L	M	Н	15	20	25	30	35	40	QPSK	16QAM	64QAM	Edge left + Edge right	Edge left + Edge left	Edge right + Edge right	Edge right + Edge left	Full
26dB and	5B		٧		٧	٧					٧	٧	٧					V
99%	7C		٧					٧	٧	٧	٧	٧	٧					V
Bandwidth	38C		V					V		٧	٧	٧	٧					٧
24	41C		٧				٧	٧	٧	٧	٧	٧	٧					٧
	5B		٧		v	٧					V	v						V
Peak-to-Av	7C		V					V	V	٧	٧	٧						V
erage Ratio	38C		٧					٧		٧	٧	V						V
	41C		٧				٧	٧	٧	٧			V					V
		Tes	t Chan	nel		E	Bandwid	th (MHz	)		N	lodulatio	n	RB#				
Test Items	Band	L	M	Н	15	20	25	30	35	40	QPSK	16QAM	64QAM	Edge left + Edge right	Edge left + Edge left	Edge right + Edge right	Edge right + Edge left	Full
Band Edge	5B	٧		٧	v	٧					٧				٧	v		٧

		Tes	st Chani	nel Bandwidth (MHz)				Modulation			RB#							
Test Items	Band	L	M	Н	15	20	25	30	35	40	QPSK	16QAM	64QAM	Edge left + Edge right	Edge left + Edge left	Edge right + Edge right	Edge right + Edge left	Full
	7C	٧		٧				٧		٧	٧				٧	V		V
Mask	38C	٧		V				٧		٧	٧				٧	٧		V
	41C	٧		٧					٧	٧	٧				V	V		٧

		Tes	st Chanı	nel		E	Bandwid	th (MHz	)		N	lodulatio	n			RB#		
Test Items	Band	L	М	Н	15	20	25	30	35	40	QPSK	16QAM	64QAM	Edge left +	Edge left +	Edge right +	Edge right +	Full
														Edge right	Edge left	Edge right	Edge left	
	5B	٧	٧	٧	v	v					V						V	
Conducted	7C	٧	٧	٧				٧		٧	٧						V	
Emission	38C	٧	٧	٧				٧		٧	٧						٧	
	41C	٧	٧	٧					٧	٧	٧						v	
		Tes	st Chani	nel		E	Bandwid	th (MHz	)		Modulation RB #							
Test Items	Band		м	Н	15	20	25	30	35	40	QPSK	16QAM	64QAM	Edge left +	Edge left +	Edge right +	Edge right +	Full
		_	IVI		13	20	23	30	33	40	QI OIL	TOGAIN	O-FOLD THE	Edge right	Edge left	Edge right	Edge left	ruii
	5B	٧	٧	٧	v						٧						V	
Radiated	7C	٧	٧	٧				٧			٧						٧	
Emission	38C	٧	٧	٧				v			٧						٧	
	41C	٧	٧	٧					٧		٧						v	

### Radiated Emission

E-UTRA Band	Test Channel	Channel Bandwidth (MHz)	Modulation	Resource Block	Allocation
		(1411 12)		RBs allocated	RB Start
5C	Low, Mid, High	5_10	QPSK	1/24_1	/0
7C	Low, Mid, High	20_10	QPSK	1/99_1	/0
38C	Low, Mid, High	15_15	QPSK	1/74_1	/0
41C	Low, Mid, High	20_15	QPSK	1/99_1	/0

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# **MEASUREMENT UNCERTAINTY**

Test Items	Und	certair	nty
RF Power Output	+/-	1	dB
ERP/ EIRP measurement	+/-	3	dB
ERP/ EIRP measurement	+/-	3	dB
Emission Bandwidth	+/-	1.53	Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/-	1.68	dB
Peak to Average Ratio	+/-	1	dB
Frequency Stability vs. Temperature	+/-	1.53	Hz
Frequency Stability vs. Voltage	+/-	1.53	Hz
Temperature	+/-	0.4	°C
Humidity	+/-	3.5	%
DC / AC Power Source	+/-	1	%

Radiated Spurio	us E	missior	Meas	surement Uncertainty
	+/-	2.57	dB	9kHz~30MHz
Polarization: Vertical	+/-	4.85	dB	30MHz - 1000MHz
Polarization. Vertical	+/-	4.45	dB	1GHz - 18GHz
	+/-	4.24	dB	18GHz - 40GHz
	+/-	2.57	dB	9kHz~30MHz
Polarization: Horizontal	+/-	4.37	dB	30MHz - 1000MHz
Polarization. Horizontal	+/-	4.45	dB	1GHz - 18GHz
	+/-	4.24	dB	18GHz - 40GHz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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# **MEASUREMENT EQUIPMENT USED**

#### 6.1 **Conducted Measurement**

	Conducte	ed Emission Test	Site: Conducted 4		
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY54200716	10/13/2021	10/12/2022
Radio Communication Analyer	Anritsu	MT8821C	6262044670	08/18/2021	08/17/2022
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R
Temperature Chamber	Giant Force	GTH-150-40-CP- AR	MAA0512-018	05/19/2021	05/18/2022
DC Power Supply	Gwinstek	SPS-3610	GEV856761	09/18/2021	09/17/2022
Attenuator	Mini-Circuit	BW-S10W2+	2	12/14/2021	12/13/2022
Attenuator	Mini-Circuit	BW-S10W2+	4	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/14/2021	12/13/2022
Power Divider	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-017	12/16/2020	12/15/2021
Power Divider	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-017	12/14/2021	12/13/2022

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#### **Radiated Measurement** 6.2

	n weasurement	Cata d Fact 1 F	-4.0140.4.0.4		
	Radi	ated Emission Te			
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWARZBECK	VULB9168	300	11/18/2020	11/17/2021
Horn Antenna	SCHWARZBECK	BBHA9120D	603	05/18/2021	05/17/2022
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/11/2020	12/10/2021
Horn Antenna	SCHWARZBECK	BBHA9170	185	08/06/2021	08/05/2022
Site Cal	SGS	SAC I chamber	N/A	01/01/2021	12/31/2021
Horn Antenna	SCHWARZBECK	BBHA9120D	D803	12/17/2020	12/16/2021
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT- N0555	01/13/2021	01/12/2022
Spectrum Analyzer	Agilent	E4446A	MY51100003	10/26/2020	10/25/2022
Radio Communication Analyer	Anritsu	MT8815B	6200711454	04/07/2021	04/06/2022
Radio Communication Analyer	Anritsu	MT8821C	6262044751	10/27/2021	10/26/2022
DC Power Supply	Agilent	E3640A	MY40005907	10/12/2021	10/11/2022
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2021	10/26/2022
Pre-Amplifier	HP	8449B	3008A01973	12/16/2020	12/15/2021
Pre-Amplifier	HP	8447D	2944A09469	12/16/2020	12/15/2021
Bandreject Filter 635-920	Micro-Tronics	WI	4	12/16/2020	12/15/2021
Bandreject Filter 800-1000	Micro-Tronics	EWT	M1	12/16/2020	12/15/2021
Bandreject Filter 2240-2700	Micro-Tronics	WI	2	12/16/2020	12/15/2021
Bandreject Filter 3300-3800	Micro-Tronics	WI	1	12/16/2020	12/15/2021
1.3G-15GHz High Pass Filter	WI	WHKX10-1066- 80SS	19	04/20/2021	04/19/2022
3.1GHz High Pass Filter	WI	WFIL-H3100- 18000F-01	WRGBAFWC2B6	01/06/2021	01/05/2022
High Pass Filter	WI	WHKX4.0/18G- 10SS	WHKX4.0/18G- 10SS	12/16/2020	12/15/2021
High Pass Filter	WI	WHKX6.0/18G- 10SS	WHKX6.0/18G- 10SS	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	EMC 104-SM- SM-2000	160123	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	160125	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 106	76096/6	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/16/2020	12/15/2021

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Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	SN 520430/2	12/16/2020	12/15/2021

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### **MAXIMUM OUTPUT POWER**

#### 7.1 Standard Applicable

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.

#### 7.1.1 **ERP/EIRP LIMIT**

According to FCC §2.1046

### FCC 22.913(a)

(5) mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

## FCC 27, 50(h)

(2) Mobile and other user stations transmitting in the BRS and EBS bands are limited to 2 W EIRP.

# RSS-132 §5.4

The equivalent isotropically radiated power (e.i.r.p.) for mobile equipment in operating in the Bands 824-849 and 869-894MHz shall not exceed 11.5 watts.

# RSS-199 §4.4

For mobile subscriber equipment operating in the Band 2500-2690MHz, the e.i.r.p. shall not exceed 2 W.

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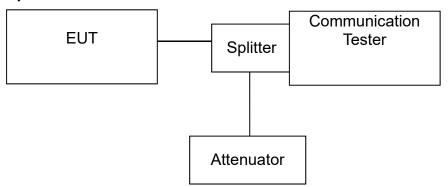
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#### 7.2 **Test Set-up**



Note: Measurement setup for testing on Antenna connector

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#### 7.3 **Output Power Measurement Applicable Guideance**

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading.

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (WCDMA/HSPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing, and KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results.

All LTE bands conducted average power is obtained from the simulator telecommunication test set.

### Determining ERP and/or EIRP from conducted RF output power measurements 7.4

According to KDB 412172 D01 Power Approach,

 $EIRP = P_T + G_T - L_C$ ERP= EIRP-2.15,

Where:

- ERP or EIRP = effective radiated power or equivalent isotropically radiated power (expressed in the same units as PT, typically dBW, dBm, or power spectral density (PSD)2), relative to either a dipole antenna (ERP) or an isotropic antenna (EIRP);
  - $P_{T}$  = transmitter output power, expressed in dBW, dBm, or PSD;
  - $G_{\tau}$  = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);
  - = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

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#### 7.5 LTE Measurement Results:

#### 7.5.1 Intra-Band

Part 22 / RSS 132_ ERP Limit (W)	7
Antenna Gain	3.2

# OUTPUT POWER FOR LTE BAND 5 (5MHz + 10MHz)

				L											
	PC	ec.	so	C1		P	CC	S	CC1	(	Conducte	d	EIRP	ERP	ERP
Bandwidth		,,		,,,,	Modulation		RB	F	RB	Av	erage (dE	3m)	Average	Average	Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(dBm)	(W)
	20428	826.8	20500	834.0	QPSK	1	24	1	0	20.71	21.93	23.74	26.94	24.79	0.301
	20420	020.0	20300	034.0	QI SIX	25	0	50	0	18.44	18.48	21.44	24.64	22.49	0.177
5MHz+	20478	831.8	20550	839.0	QPSK	1	24	1	0	20.61	21.76	23.63	26.83	24.68	0.294
10MHz					4. 5	25	0	50	0	18.53	18.53	21.51	24.71	22.56	0.180
	20528	836.8	20600	844.0	QPSK	1	24	1	0	20.52	21.56	23.53	26.73	24.58	0.287
	20020	000.0	20000	044.0	QI OIX	25	0	50	0	18.34	18.48	21.39	24.59	22.44	0.175
	20428	826.8	20500	834.0	16QAM	1	24	1	0	19.43	20.39	22.45	25.65	23.50	0.224
	20420	020.0	20300	034.0	TOQAW	25	0	50	0	17.33	17.51	20.41	23.61	21.46	0.140
5MHz+	20478	831.8	20550	839.0	16QAM	1	24	1	0	19.37	20.49	22.40	25.60	23.45	0.221
10MHz	20470	031.0	20330	033.0	IOQAW	25	0	50	0	17.58	17.51	20.53	23.73	21.58	0.144
	20528	836.8	20600	844.0	16QAM	1	24	1	0	19.39	20.42	22.39	25.59	23.44	0.221
	20020	030.0	20000	044.0	IOQAW	25	0	50	0	17.32	17.28	20.28	23.48	21.33	0.136
	20428	826.8	20500	834.0	64QAM	1	24	1	0	17.42	18.41	20.43	23.63	21.48	0.141
	20420	020.0	20300	034.0	OTQAW	25	0	50	0	17.44	17.58	20.50	23.70	21.55	0.143
5MHz+	20478	831.8	20550	839.0	64QAM	1	24	1	0	17.46	18.64	20.49	23.69	21.54	0.143
10MHz	20470	001.0	20000	039.0	U+QAW	25	0	50	0	17.52	17.50	20.49	23.69	21.54	0.143
	20528	836.8	20600	844.0	64QAM	1	24	1	0	17.08	19.00	20.57	23.77	21.62	0.145
	20320	000.0	20000	044.0	U+QAW	25	0	50	0	17.33	17.35	20.32	23.52	21.37	0.137

Part 22 / RSS 132\_ ERP Limit (W) Antenna Gain 3.2

### OUTPUT POWER FOR LTE BAND 5 (10MHz + 5MHz)

Bandwidth	PCC		SCC1		Modulation	PCC		SCC1		Conduc			EIRP	ERP	ERP
Danuwium	FCC		3001		Wodulation	RB		RB		ted			Average	Average	Average
	Earfon	MHz	Earfon	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(dBm)	(W)
10MHz+	20450	829.0	20522	836.2	QPSK	1	49	1	0	21.68	20.39	23.46	26.66	24.51	0.282
						50	0	25	0	18.64	18.45	21.53	24.73	22.58	0.181
	20500	834.0	20572	841.2	QPSK	1	49	1	0	21.51	20.47	23.47	26.67	24.52	0.283
						50	0	25	0	18.51	18.40	21.43	24.63	22.48	0.177
	20550	839.0	20622	846.2	QPSK	1	49	1	0	21.14	21.00	23.57	26.77	24.62	0.290
						50	0	25	0	18.36	18.36	21.35	24.55	22.40	0.174
10MHz+	20450	829.0	20522	836.2	16QAM	1	49	1	0	20.85	19.66	22.67	25.87	23.72	0.236
						50	0	25	0	17.60	17.42	20.51	23.71	21.56	0.143
	20500	834.0	20572	841.2	16QAM	1	49	1	0	20.63	19.18	22.22	25.42	23.27	0.212
						50	0	25	0	17.68	17.41	20.53	23.73	21.58	0.144
	20550	839.0	20622	846.2	16QAM	1	49	1	0	20.76	19.34	22.35	25.55	23.40	0.219
						50	0	25	0	17.48	17.30	20.37	23.57	21.42	0.139
10MHz+	20450	829.0	20522	836.2	64QAM	1	49	1	0	18.86	17.72	20.74	23.94	21.79	0.151
						50	0	25	0	17.51	17.47	20.49	23.69	21.54	0.143
	20500	834.0	20572	841.2	64QAM	1	49	1	0	18.73	17.55	20.57	23.77	21.62	0.145
						50	0	25	0	17.67	17.35	20.49	23.69	21.54	0.143
	20550	839.0	20622	846.2	64QAM	1	49	1	0	18.42	17.28	20.30	23.50	21.35	0.136
						50	0	25	0	17.51	17.41	20.43	23.63	21.48	0.141

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Part 22 / RSS 132\_ ERP Limit (W) OUTPUT POWER FOR LTE BAND 5 (10MHz + 10MHz)

Antenna Gaiı	1		3.2		<u>00</u>	11 01	1 011			L DAND	7 3 (10	VII 12 '	10W1112)		
Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conduc ted			EIRP Average	ERP Average	ERP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(dBm)	(W)
10MHz+	20450	829.0	20549	838.9	QPSK	1	49	1	0	21.09	20.05	23.61	26.81	24.66	0.292
						50	0	50	0	18.43	18.48	21.47	24.67	22.52	0.179
	20476	831.6	20575	841.5	QPSK	1	49	1	0	20.64	20.56	23.61	26.81	24.66	0.292
						50	0	50	0	18.48	18.46	21.48	24.68	22.53	0.179
	20501	834.1	20600	844.0	QPSK	1	49	1	0	20.56	20.58	23.58	26.78	24.63	0.290
						50	0	50	0	18.35	18.45	21.41	24.61	22.46	0.176
10MHz+	20450	829.0	20549	838.9	16QAM	1	49	1	0	19.43	19.41	22.43	25.63	23.48	0.223
						50	0	50	0	17.50	17.43	20.47	23.67	21.52	0.142
	20476	831.6	20575	841.5	16QAM	1	49	1	0	18.80	19.79	22.34	25.54	23.39	0.218
						50	0	50	0	17.55	17.47	20.52	23.72	21.57	0.144
	20501	834.1	20600	844.0	16QAM	1	49	1	0	19.81	19.73	22.78	25.98	23.83	0.242
						50	0	50	0	17.55	17.32	20.45	23.65	21.50	0.141
10MHz+	20450	829.0	20549	838.9	64QAM	1	49	1	0	17.53	17.52	20.55	23.75	21.60	0.145
						50	0	50	0	17.59	17.53	20.57	23.77	21.62	0.145
	20476	831.6	20575	841.5	64QAM	1	49	1	0	17.52	17.50	20.52	23.72	21.57	0.144
						50	0	50	0	17.59	17.37	20.49	23.69	21.54	0.143
	20501	834.1	20600	844.0	64QAM	1	49	1	0	17.36	17.34	20.36	23.56	21.41	0.138
						50	0	50	0	17.53	17.40	20.48	23.68	21.53	0.142

Part 27 / RSS 199\_ EIRP Limit (W) 2 Antenna Gain 3.12

# OUTPUT POWER FOR LTE BAND 7 (10MHz + 20MHz)

Antonna Gan	•		0.12											
	DC	cc	90	C1		P	CC	S	CC1	C	Conducte	d	EIRP	EIRP
Bandwidth		,0		.01	Modulation	ı	RB	i	RB	Av	erage (dE	Bm)	Average	Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
	20805	2505.5	20949	2519.9	QPSK	1	49	1	0	20.43	22.4.	23.41	26.53	0.450
	20000	2000.0	20040	2010.0	Q1 OIX	50	0	100	0	18.47	18.58	21.51	24.63	0.290
10MHz+	21006	2525.6	21150	2540.0	QPSK	1	49	1	0	20.30	22.38	23.32	26.44	0.441
20MHz	21000	2020.0	21100	2040.0	Q1 OIX	50	0	100	0	18.47	18.61	21.53	24.65	0.292
	21206	2545.6	21350	2560.0	QPSK	1	49	1	0	20.78	22.78	23.81	26.93	0.493
	21200	2040.0	21000	2000.0	QI OIX	50	0	100	0	18.57	18.68	21.61	24.73	0.297
	20805	2505.5	20949	2519.9	16QAM	1	49	1	0	19.63	21.67	22.66	25.78	0.378
	20000	2000.0	20040	2010.0	100/101	50	0	100	0	17.48	17.57	20.51	23.63	0.231
10MHz+	21006	2525.6	21150	2540.0	16QAM	1	49	1	0	19.27	21.42	22.33	25.45	0.351
20MHz	21000	2020.0	21100	2010.0	100/10	50	0	100	0	17.49	17.61	20.53	23.65	0.232
	21206	2545.6	21350	2560.0	16QAM	1	49	1	0	19.59	21.56	22.56	25.68	0.370
	21200	2010.0	21000	2000.0	100,111	50	0	100	0	17.62	17.47	20.53	23.65	0.232
	20805	2505.5	20949	2519.9	64QAM	1	49	1	0	17.36	19.37	20.38	23.50	0.224
	20000	2000.0	20040	2010.0	O+Q/W	50	0	100	0	17.42	17.55	20.47	23.59	0.229
10MHz+	21006	2525.6	21150	2540.0	64QAM	1	49	1	0	17.49	19.57	20.50	23.62	0.230
20MHz	2.500	2020.0	2.100	2010.0	U 1 327 WI	50	0	100	0	17.50	17.60	20.53	23.65	0.232
	21206	2545.6	21350	2560.0	64QAM	1	49	1	0	17.41	19.30	20.43	23.55	0.226
	21200	2040.0	2,000	2000.0	0.100,401	50	0	100	0	17.59	17.59	20.57	23.69	0.234

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Part 27 / RSS 199\_ EIRP Limit (W) Antenna Gain 3.12

# OUTPUT POWER FOR LTE BAND 7 (15MHz + 15MHz)

PCC			0.12											
	DC	rc	90	C1		P	CC	S	CC1	C	Conducte	d	EIRP	EIRP
Bandwidth	F	,,	30	C1	Modulation	1	RB	F	RB	Av	erage (dE	Bm)	Average	Average
	Earfon	MHz	Earfon	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
	20825	2507.5	20975	2522.5	QPSK	1	74	1	0	20.59	20.66	23.64	26.76	0.474
	20020	2007.0	20070	2022.0	QI OIX	75	0	75	0	18.40	18.42	21.42	24.54	0.284
15MHz+	21025	2527.5	21175	2542.5	QPSK	1	74	1	0	20.65	20.64	23.65	26.77	0.475
15MHz	21020	2021.0	21175	2042.0	QI OIX	75	0	75	0	18.44	18.42	21.44	24.56	0.286
	21225	2547.5	21375	2562.5	QPSK	1	74	1	0	20.60	20.57	23.59	26.71	0.469
	21220	2047.0	21070	2002.0	Q1 OIX	75	0	75	0	18.58	18.54	21.57	24.69	0.294
	20825	2507.5	20975	2522.5	16QAM	1	74	1	0	19.67	19.64	22.66	25.78	0.378
	20020	2007.0	20070	2022.0	10 Q7 W1	75	0	75	0	17.53	17.52	20.53	23.65	0.232
15MHz+	21025	2527.5	21175	2542.5	16QAM	1	74	1	0	19.69	19.68	22.70	25.82	0.382
15MHz	2.020	202710	20	20 :2:0		75	0	75	0	17.48	17.55	20.53	23.65	0.232
	21225	2547.5	21375	2562.5	16QAM	1	74	1	0	19.42	19.39	22.41	25.53	0.357
	21220	2011.0	21010	2002.0	100,111	75	0	75	0	17.63	17.60	20.62	23.74	0.237
	20825	2507.5	20975	2522.5	64QAM	1	74	1	0	17.54	17.53	20.55	23.67	0.233
	20020	2007.10	200.0	2022.0	0.0	75	0	75	0	17.51	17.51	20.52	23.64	0.231
15MHz+	21025	2527.5	21175	2542.5	64QAM	1	74	1	0	17.40	17.40	20.41	23.53	0.225
15MHz	2.320		2.170	20 /2.0	0.37411	75	0	75	0	17.49	17.28	20.40	23.52	0.225
	21225	2547.5	21375	2562.5	64QAM	1	74	1	0	17.41	17.37	20.40	23.52	0.225
	2.220				0100,111	75	0	75	0	17.62	17.59	20.61	23.73	0.236

Part 27 / RSS 199\_ EIRP Limit (W) 2 Antenna Gain 3.12

# OUTPUT POWER FOR LTE BAND 7 (15MHz + 20MHz)

	PC	٠ <u>٢</u>	90	C1		P	CC	S	CC1	C	Conducte	d	EIRP	EIRP
Bandwidth		,0	50	C1	Modulation		RB	F	RB	Av	erage (dE	Bm)	Average	Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
	20828	2507.8	20999	2524.9	QPSK	1	74	1	0	20.43	20.45	23.45	26.57	0.454
	20020	2007.0	20000	2024.0	QIOIX	75	0	100	0	18.46	18.49	21.48	24.60	0.288
15MHz+	21003	2525.3	21174	2542.4	QPSK	1	74	1	0	20.61	20.64	23.64	26.76	0.474
20MHz	21000	2020.0	21174	2542.4	QI SIX	75	0	100	0	18.48	18.57	21.54	24.66	0.292
	21179	2542.9	21350	2560.0	QPSK	1	74	1	0	20.65	20.77	23.72	26.84	0.483
	21173	2042.0	21000	2300.0	QI SIX	75	0	100	0	18.57	18.62	21.60	24.72	0.296
	20828	2507.8	20999	2524.9	16QAM	1	74	1	0	19.52	19.53	22.53	25.65	0.367
	20020	2307.0	20000	2024.0	TOQAW	75	0	100	0	17.51	17.51	20.52	23.64	0.231
15MHz+	21003	2525.3	21174	2542.4	16QAM	1	74	1	0	19.74	17.76	22.76	25.88	0.387
20MHz	21000	2020.0	21174	2042.4	TOQAW	75	0	100	0	17.44	17.63	20.55	23.67	0.233
	21179	2542.9	21350	2560.0	16QAM	1	74	1	0	19.53	19.56	22.55	25.67	0.369
	21170	2042.0	21000	2000.0	100/10	75	0	100	0	17.62	17.48	20.56	23.68	0.233
	20828	2507.8	20999	2524.9	64QAM	1	74	1	0	17.45	17.56	20.51	23.63	0.231
	20020	2307.0	20000	2024.0	OTQAW	75	0	100	0	17.49	17.51	20.51	23.63	0.231
15MHz+	21003	2525.3	21174	2542.4	64QAM	1	74	1	0	17.34	17.37	20.36	23.48	0.223
20MHz	21000	2020.0	Z1117	2072.4	OTQ/NVI	75	0	100	0	17.43	17.63	20.54	23.66	0.232
	21179	2542.9	21350	2560.0	64QAM	1	74	1	0	17.57	17.58	20.58	23.70	0.234
	21110	2072.0	21000	2000.0	O-TQ/NIVI	75	0	100	0	17.55	17.54	20.55	23.67	0.233

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Part 27 / RSS 199\_ EIRP Limit (W) Antenna Gain 3.12

# OUTPUT POWER FOR LTE BAND 7 (20MHz + 10MHz)

			J 0											
	PC	.ر	90	:C1		P	CC	S	CC1	C	Conducte	d	EIRP	EIRP
Bandwidth		,0			Modulation	ı	RB	ı	RB	Av	erage (dE	Bm)	Average	Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
	20850	2510.0	20994	2524.4	QPSK	1	99	1	0	22.24	20.26	23.25	26.37	0.434
	20000	2310.0	20334	2524.4	QI SIX	100	0	50	0	18.20	17.58	20.88	24.00	0.251
20MHz+	21051	2530.1	21195	2544.5	QPSK	1	99	1	0	22.72	20.85	23.88	27.00	0.501
10MHz	21001	2000.1	21133	2044.0	QI SIX	100	0	50	0	17.99	17.75	20.85	23.97	0.249
	21251	2550.1	21395	2564.5	QPSK	1	99	1	0	22.27	20.48	23.52	26.64	0.461
	21201	2000.1	21000	2004.0	QI OIX	100	0	50	0	18.48	17.49	21.01	24.13	0.259
	20850	2510.0	20994	2524.4	16QAM	1	99	1	0	21.66	19.61	22.66	25.78	0.378
	20050	2010.0	20004	2024.4	TOQAW	100	0	50	0	17.23	16.64	19.64	22.76	0.189
20MHz+	21051	2530.1	21195	2544.5	16QAM	1	99	1	0	21.59	19.72	22.70	25.82	0.382
10MHz	21001	2000.1	21100	2011.0	100/10	100	0	50	0	17.12	16.98	20.04	23.16	0.207
	21251	2550.1	21395	2564.5	16QAM	1	99	1	0	21.94	19.74	22.80	25.92	0.391
	21201	2000.1	21000	2004.0	100/10	100	0	50	0	17.62	16.69	20.17	23.29	0.213
	20850	2510.0	20994	2524.4	64QAM	1	99	1	0	19.21	17.29	20.28	23.40	0.219
	20000	2010.0	20004	2024.4	O+Q/W	100	0	50	0	17.36	16.77	20.07	23.19	0.208
20MHz+	21051	2530.1	21195	2544.5	64QAM	1	99	1	0	19.04	17.16	20.19	23.31	0.214
10MHz	21001	2000.1	21100	20-14.0	O-I Q/IVI	100	0	50	0	17.28	17.09	20.17	23.29	0.213
	21251	2550.1	21395	2564.5	64QAM	1	99	1	0	18.93	17.09	20.09	23.21	0.209
	21201	2000.1	21000	2007.0	OTQ/W	100	0	50	0	17.91	16.94	20.44	23.56	0.227

Part 27 / RSS 199\_ EIRP Limit (W) 2 Antenna Gain 3.12

# OUTPUT POWER FOR LTE BAND 7 (20MHz + 15MHz)

	DC	C	8	C1		P	CC	S	CC1	(	Conducte	d	EIRP	EIRP
Bandwidth		,0	50	01	Modulation	ı	RB	F	RB	Av	erage (dE	Bm)	Average	Average
	Earfon	MHz	Earfon	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
	20850	2510.0	21021	2527.1	QPSK	1	99	1	0	20.69	20.69	23.70	26.82	0.481
	20000	2010.0	21021	2027.1	QIOIX	100	0	75	0	18.35	18.48	21.43	24.55	0.285
20MHz+	21026	2527.6	21197	2544.7	QPSK	1	99	1	0	20.48	20.45	23.47	26.59	0.456
15MHz	21020	2021.0	21107	2044.1	QIOIX	100	0	75	0	18.53	18.62	21.58	24.70	0.295
	21201	2545.1	21372	2562.2	QPSK	1	99	1	0	20.10	20.06	23.09	26.21	0.418
	21201	2040.1	21072	2502.2	QIOI	100	0	75	0	18.64	18.59	21.63	24.75	0.299
	20850	2510.0	21021	2527.1	16QAM	1	99	1	0	19.44	19.43	22.44	25.56	0.360
	20000	2010.0	21021	2027.1	100/10	100	0	75	0	17.34	17.48	20.42	23.54	0.226
20MHz+	21026	2527.6	21197	2544.7	16QAM	1	99	1	0	19.53	19.50	22.52	25.64	0.366
15MHz	21020	2021.0	21107	2044.7	100/10	100	0	75	0	17.49	17.59	20.55	23.67	0.233
	21201	2545.1	21372	2562.2	16QAM	1	99	1	0	19.51	19.55	22.54	25.66	0.368
	21201	2040.1	21072	2502.2	TOQAW	100	0	75	0	17.62	17.58	20.61	23.73	0.236
	20850	2510.0	21021	2527.1	64QAM	1	99	1	0	17.34	17.32	20.34	23.46	0.222
	20000	2010.0	21021	2027.1	0+Q/W	100	0	75	0	17.40	17.54	20.48	23.60	0.229
20MHz+	21026	2527.6	21197	2544.7	64QAM	1	99	1	0	17.59	17.54	20.58	23.70	0.234
15MHz	21020	2021.0	21107	2077.7	OTQ/NVI	100	0	75	0	17.50	17.55	20.54	23.66	0.232
	21201	2545.1	21372	2562.2	64QAM	1	99	1	0	17.26	17.24	20.26	23.38	0.218
	2.201	20 10.1	2.072	2002.2	0 1 Q7 W1	100	0	75	0	17.54	17.52	20.54	23.66	0.232

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Part 27 / RSS 199\_ EIRP Limit (W) Antenna Gain 3.12

# OUTPUT POWER FOR LTE BAND 7 (20MHz + 20MHz)

Antenna Gan			3.12											
	PC	```	90	C1		P	CC	S	CC1	(	Conducte	d	EIRP	EIRP
Bandwidth		,0		01	Modulation		RB	F	RB	Av	erage (dE	Bm)	Average	Average
	Earfcn	MHz	Earfon	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
	20850	2510.0	21048	2529.8	QPSK	1	99	1	0	20.76	20.76	23.77	26.89	0.489
	20000	2010.0	21040	2020.0	Q1 OIX	100	0	100	0	18.41	18.49	21.46	24.58	0.287
20MHz+	21001	2525.1	21199	2544.9	QPSK	1	99	1	0	20.72	20.70	23.72	26.84	0.483
20MHz	21001	2020.1	21100	2011.0	Q1 OIX	100	0	100	0	18.55	18.63	21.60	24.72	0.296
	21152	2540.2	21350	2560.0	QPSK	1	99	1	0	20.58	20.54	23.57	26.69	0.467
	21102	2010.2	21000	2000.0	QI OIL	100	0	100	0	18.68	18.69	21.69	24.81	0.303
	20850	2510.0	21048	2529.8	16QAM	1	99	1	0	19.23	19.23	22.24	25.36	0.344
	20000	2010.0	21010	2020.0	100,111	100	0	100	0	17.37	17.45	20.42	23.54	0.226
20MHz+	21001	2525.1	21199	2544.9	16QAM	1	99	1	0	19.32	19.32	22.33	25.45	0.351
20MHz						100	0	100	0	17.43	17.62	20.54	23.66	0.232
	21152	2540.2	21350	2560.0	16QAM	1	99	1	0	19.80	19.76	22.79	25.91	0.390
	21102	20.012	2.000	2000.0		100	0	100	0	17.71	17.73	20.73	23.85	0.243
	20850	2510.0	21048	2529.8	64QAM	1	99	1	0	17.82	17.92	20.88	24.00	0.251
	10000	20.010	2.0.0	202010	0.0	100	0	100	0	17.37	17.44	20.41	23.53	0.225
20MHz+	21001	2525.1	21199	2544.9	64QAM	1	99	1	0	17.77	17.76	20.77	23.89	0.245
20MHz	2.301		2.100	2011.0	0.37111	100	0	100	0	17.57	17.64	20.61	23.73	0.236
	21152	2540.2	21350	2560.0	64QAM	1	99	1	0	17.51	17.46	20.50	23.62	0.230
	2.102	20 10.2	2.300	2000.0	0 1 307 WI	100	0	100	0	17.65	17.67	20.67	23.79	0.239

Part 27 / RSS 199\_ EIRP Limit (W) 2 Antenna Gain 3.12

### OUTPUT POWER FOR LTE BAND 38 (15MHz + 15MHz)

	DC	cc	SC	·C1		Р	CC	S	CC1	(	Conducte	d	EIRP	EIRP
Bandwidth		,,,	30	.01	Modulation	ı	RB	ı	RB	Av	erage (dE	Bm)	Average	Average
	Earfcn	MHz	Earfon	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
	37825	2577.5	37975	2592.5	QPSK	1	74	1	0	20.27	20.34	23.32	26.44	0.441
	07020	2011.0	07070	2002.0	QI OIX	75	0	75	0	18.38	18.38	21.39	24.51	0.282
15MHz+	37925	2587.5	38075	2602.5	QPSK	1	74	1	0	20.28	20.32	23.31	26.43	0.440
15MHz	01323	2007.0	30073	2002.5	QI OIX	75	0	75	0	18.37	18.42	21.41	24.53	0.284
	38025	2597.5	38175	2612.5	QPSK	1	74	1	0	20.36	20.37	23.37	26.49	0.446
	50025	2007.0	30173	2012.0	QI OIX	75	0	75	0	18.40	18.41	21.42	24.54	0.284
	37825	2577.5	37975	2592.5	16QAM	1	74	1	0	19.27	19.23	22.26	25.38	0.345
	07020	2011.0	0/0/0	2002.0	100/11	75	0	75	0	17.39	17.40	20.40	23.52	0.225
15MHz+	37925	2587.5	38075	2602.5	16QAM	1	74	1	0	19.23	19.27	22.26	25.38	0.345
15MHz	07 020	2007.0	00070	2002.0	100/11	75	0	75	0	17.50	17.43	20.47	23.59	0.229
	38025	2597.5	38175	2612.5	16QAM	1	74	1	0	19.22	19.23	22.23	25.35	0.343
	00020	2007.0	00170	2012.0	100/11	75	0	75	0	17.49	17.51	20.51	23.63	0.231
	37825	2577.5	37975	2592.5	64QAM	1	74	1	0	17.30	17.26	20.29	23.41	0.219
	07020	2011.0	01010	2002.0	0+Q/W	75	0	75	0	17.42	17.43	20.43	23.55	0.226
15MHz+	37925	2587.5	38075	2602.5	64QAM	1	74	1	0	17.20	17.24	20.23	23.35	0.216
15MHz	5.520	2007.0	33370	2002.0	5 1 Q/ WI	75	0	75	0	17.48	17.53	20.51	23.63	0.231
	38025	2597.5	38175	2612.5	64QAM	1	74	1	0	17.52	17.52	20.53	23.65	0.232
	00020	2007.0	33170	2012.0	0 1 Q/ WI	75	0	75	0	17.50	17.52	20.52	23.64	0.231

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 Part 27 / RSS 199\_ EIRP Limit (W)
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 Antenna Gain
 3.12

# OUTPUT POWER FOR LTE BAND 38 (20MHz + 20MHz)

Zilicilia O			J.12											
	PC	.c	sc	C1		Р	CC	S	CC1	C	onducte	d	EIRP	EIRP
Bandwidth	FC	,,	30	01	Modulation	ı	RB	F	RB	Av	erage (dE	Bm)	Average	Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
	37850	2580.0	38048	2599.8	QPSK	1	99	1	0	20.24	20.29	23.28	26.40	0.437
	37030	2300.0	30040	2333.0	QFSK	100	0	100	0	18.41	18.38	21.41	24.53	0.284
20MHz+	37901	2585.1	38099	2604.9	QPSK	1	99	1	0	20.27	20.30	23.30	26.42	0.439
20MHz	3/301	2303.1	30099	2004.9	QFSK	100	0	100	0	18.45	18.46	21.46	24.58	0.287
	37952	2590.2	38150	2610.0	QPSK	1	99	1	0	20.31	20.25	23.29	26.41	0.438
	37332	2550.2	30130	2010.0	QI SIX	100	0	100	0	18.46	18.51	21.49	24.61	0.289
	37850	2580.0	38048	2599.8	16QAM	1	99	1	0	19.16	19.22	22.20	25.32	0.340
	37030	2300.0	30040	2333.0	TOQAM	100	0	100	0	17.41	17.49	20.46	23.58	0.228
20MHz+	37901	2585.1	38099	2604.9	16QAM	1	99	1	0	19.23	19.27	22.26	25.38	0.345
20MHz	37301	2000.1	30033	2004.3	TOQAW	100	0	100	0	17.36	17.38	20.38	23.50	0.224
	37952	2590.2	38150	2610.0	16QAM	1	99	1	0	19.13	19.19	22.17	25.29	0.338
	01002	2000.2	30130	2010.0	TOQAW	100	0	100	0	17.42	17.47	20.45	23.57	0.228
	37850	2580.0	38048	2599.8	64QAM	1	99	1	0	17.20	17.25	20.23	23.35	0.216
	37030	2000.0	30040	2000.0	OTQ/W	100	0	100	0	17.47	17.45	20.47	23.59	0.229
20MHz+	37901	2585.1	38099	2604.9	64QAM	1	99	1	0	17.22	17.25	20.25	23.37	0.217
20MHz	37301	2000.1	30033	2004.3	UT WAIN	100	0	100	0	17.48	17.51	20.50	23.62	0.230
	37952	2590.2	38150	2610.0	64QAM	1	99	1	0	17.27	17.32	20.31	23.43	0.220
	31332	2000.2	30130	2010.0	U4QAW	100	0	100	0	17.40	17.46	20.44	23.56	0.227

 Part 27 / RSS 199\_ EIRP Limit (W)
 2

 Antenna Gain
 3.12

# OUTPUT POWER FOR LTE BAND 41 (5MHz + 20MHz)

	DC	cc	SC	C1		Р	CC	S	CC1	(	Conducte	d	EIRP	EIRP
Bandwidth		,0	30	C1	Modulation	ı	RB	ı	RB	Av	erage (dE	Bm)	Average	Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
	39683	2499.3	39800	2511.0	QPSK	1	24	1	0	23.47	23.49	23.50	26.62	0.459
	03000	2433.0	33000	2011.0	QI OIX	25	0	100	0	18.19	18.82	21.24	24.36	0.273
5MHz+	40528	2583.8	40645	2595.5	QPSK	1	24	1	0	20.38	23.39	23.40	26.52	0.449
20MHz	40320	2303.0	40043	2000.0	QI SIX	25	0	100	0	18.30	18.91	21.34	24.46	0.279
	41373	2668.3	41490	2680.0	QPSK	1	24	1	0	20.37	23.34	23.34	26.46	0.443
	41070	2000.0	41430	2000.0	QI OIX	25	0	100	0	18.41	18.98	21.43	24.55	0.285
	39683	2499.3	39800	2511.0	16QAM	1	24	1	0	19.13	22.14	22.15	25.27	0.337
	03000	2433.0	33000	2011.0	TOQAW	25	0	100	0	17.23	17.83	20.29	23.41	0.219
5MHz+	40528	2583.8	40645	2595.5	16QAM	1	24	1	0	19.34	22.36	22.36	25.48	0.353
20MHz	40020	2000.0	40040	2000.0	100/11	25	0	100	0	17.34	17.92	20.39	23.51	0.224
	41373	2668.3	41490	2680.0	16QAM	1	24	1	0	19.34	22.36	22.36	25.48	0.353
	41070	2000.0	41430	2000.0	TOQAW	25	0	100	0	17.41	17.95	20.44	23.56	0.227
	39683	2499.3	39800	2511.0	64QAM	1	24	1	0	17.24	20.25	20.25	23.37	0.217
	03000	2433.0	33000	2011.0	OTQ/W	25	0	100	0	17.16	17.76	20.23	23.35	0.216
5MHz+	40528	2583.8	40645	2595.5	64QAM	1	24	1	0	17.44	20.46	20.46	23.58	0.228
20MHz	10020	2000.0	70070	2000.0	OTQ/WI	25	0	100	0	17.37	17.87	20.40	23.52	0.225
	41373	2668.3	41490	2680.0	64QAM	1	24	1	0	17.15	20.16	20.16	23.28	0.213
	41010	2000.3	41430	2000.0	UT WAIN	25	0	100	0	17.37	17.91	20.42	23.54	0.226

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Part 27 / RSS 199\_ EIRP Limit (W) Antenna Gain 3.12

# OUTPUT POWER FOR LTE BAND 41 (10MHz + 20MHz)

Antenna Gan	•		0.12	1										
	Dr	cc	90	C1		F	CC	S	CC1	(	Conducte	d	EIRP	EIRP
Bandwidth	F	,,		.01	Modulation		RB	F	RB	Av	erage (dE	3m)	Average	Average
	Earfon	MHz	Earfon	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
	39705	2501.5	39849	2515.9	QPSK	1	49	1	0	20.56	22.45	23.60	26.72	0.470
	33703	2301.3	33043	2010.9	QION	50	0	100	0	18.34	18.49	21.40	24.52	0.283
10MHz+	40526	2583.6	40670	2598.0	QPSK	1	49	1	0	20.20	22.25	23.22	26.34	0.431
20MHz	40320	2000.0	40070	2590.0	QION	50	0	100	0	18.34	18.41	21.36	24.48	0.281
	41346	2665.6	41490	2680.0	QPSK	1	49	1	0	20.48	22.35	23.50	26.62	0.459
	41040	2000.0	71430	2000.0	QI OIL	50	0	100	0	18.46	18.53	21.48	24.60	0.288
	39705	2501.5	39849	2515.9	16QAM	1	49	1	0	19.19	21.26	22.23	25.35	0.343
	00700	2001.0	00040	2010.0	1000/101	50	0	100	0	17.37	17.50	20.42	23.54	0.226
10MHz+	40526	2583.6	40670	2598.0	16QAM	1	49	1	0	19.31	21.36	22.34	25.46	0.352
20MHz	10020	2000.0	10010	2000.0	100,111	50	0	100	0	17.36	17.51	20.42	23.54	0.226
	41346	2665.6	41490	2680.0	16QAM	1	49	1	0	19.36	21.35	22.34	25.46	0.352
	41040	2000.0	41400	2000.0	1007111	50	0	100	0	17.47	17.53	20.49	23.61	0.230
	39705	2501.5	39849	2515.9	64QAM	1	49	1	0	17.32	19.34	20.36	23.48	0.223
	00700	2001.0	00010	2010.0	010,111	50	0	100	0	17.36	17.49	20.41	23.53	0.225
10MHz+	40526	2583.6	40670	2598.0	64QAM	1	49	1	0	17.06	19.05	20.07	23.19	0.208
20MHz	15520	2000.0	10070	2000.0	0 1 307 WI	50	0	100	0	17.39	17.46	20.41	23.53	0.225
	41346	2665.6	41490	2680.0	64QAM	1	49	1	0	17.09	19.09	20.11	23.23	0.210
	71070	2000.0	41430	2000.0	O-F-Q/TWI	50	0	100	0	17.41	17.49	20.44	23.56	0.227

Part 27 / RSS 199\_ EIRP Limit (W) 2 Antenna Gain 3.12

# OUTPUT POWER FOR LTE BAND 41 (15MHz + 15MHz)

	PC	C	SC	C1		P	CC	S	CC1	(	Conducte	d	EIRP	EIRP
Bandwidth		,0		01	Modulation	ı	RB	F	RB	Av	erage (dE	Bm)	Average	Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
	39725	2503.5	39875	2518.5	QPSK	1	74	1	0	20.62	20.58	23.61	26.73	0.471
	00120	2000.0	00070	2010.0	Q. O.	75	0	75	0	18.34	18.36	21.36	24.48	0.281
15MHz+	40545	2585.5	40695	2600.5	QPSK	1	74	1	0	20.34	20.44	23.40	26.52	0.449
15MHz	10010	2000.0	40000	2000.0	Q OIL	75	0	75	0	18.30	18.40	21.36	24.48	0.281
	41365	2667.5	41515	2682.5	QPSK	1	74	1	0	20.50	20.49	23.51	26.63	0.460
	+1000	2007.5	71010	2002.0	QIOIX	75	0	75	0	18.41	18.36	21.39	24.51	0.282
	39725	2503.5	39875	2518.5	16QAM	1	74	1	0	19.21	19.30	22.27	25.39	0.346
	00120	2000.0	00070	2010.0	100/10	75	0	75	0	17.38	17.40	20.40	23.52	0.225
15MHz+	40545	2585.5	40695	2600.5	16QAM	1	74	1	0	19.37	19.38	22.39	25.51	0.356
15MHz	40040	2000.0	40033	2000.5	TOQAW	75	0	75	0	17.40	17.42	20.42	23.54	0.226
	41365	2667.5	41515	2682.5	16QAM	1	74	1	0	19.39	19.41	22.41	25.53	0.357
	41000	2007.0	41010	2002.0	100/10	75	0	75	0	17.44	17.39	20.42	23.54	0.226
	39725	2503.5	39875	2518.5	64QAM	1	74	1	0	17.39	17.39	20.40	23.52	0.225
	00120	2000.0	00070	2010.0	O-TQ/WI	75	0	75	0	17.36	17.38	20.38	23.50	0.224
15MHz+	40545	2585.5	40695	2600.5	64QAM	1	74	1	0	17.47	17.08	20.29	23.41	0.219
15MHz	70040	2000.0	70000	2000.0	UTQ/IVI	75	0	75	0	17.40	17.42	20.42	23.54	0.226
	41365	2667.5	41515	2682.5	64QAM	1	74	1	0	17.23	17.24	20.24	23.36	0.217
	41000	2001.0	71010	2002.0	O-TQ/NIVI	75	0	75	0	17.40	17.37	20.39	23.51	0.224

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Part 27 / RSS 199\_ EIRP Limit (W) Antenna Gain 3.12

### OUTPUT POWER FOR LTE BAND 41 (15MHz + 20MHz)

	DC	CC	90	C1		P	CC	S	CC1	C	Conducte	d	EIRP	EIRP
Bandwidth		,,	30	.01	Modulation	1	RB	F	RB	Av	erage (dE	3m)	Average	Average
	Earfon	MHz	Earfon	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
	39728	2503.8	39899	2520.9	QPSK	1	74	1	0	20.12	20.14	23.14	26.26	0.423
	33720	2505.0	33033	2520.5	QI SIX	75	0	100	0	18.32	18.33	21.34	24.46	0.279
15MHz+	40523	2583.3	40694	2600.4	QPSK	1	74	1	0	20.40	20.45	23.44	26.56	0.453
20MHz	40020	2000.0	40054	2000.4	QIOI	75	0	100	0	18.38	18.45	21.42	24.54	0.284
	41319	2662.9	41490	2680.0	QPSK	1	74	1	0	20.33	20.28	23.32	26.44	0.441
	41010	2002.0	41400	2000.0	QI OIL	75	0	100	0	18.42	18.38	21.41	24.53	0.284
	39728	2503.8	39899	2520.9	16QAM	1	74	1	0	19.18	19.21	22.21	25.33	0.341
	00120	2000.0	00000	2020.0	100,111	75	0	100	0	17.35	17.40	20.39	23.51	0.224
15MHz+	40523	2583.3	40694	2600.4	16QAM	1	74	1	0	19.35	19.31	22.34	25.46	0.352
20MHz	.0020	2000.0		2000		75	0	100	0	17.41	17.48	20.46	23.58	0.228
	41319	2662.9	41490	2680.0	16QAM	1	74	1	0	19.32	19.37	22.35	25.47	0.352
	11010	2002.0	11100	2000.0	100,111	75	0	100	0	17.46	17.42	20.45	23.57	0.228
	39728	2503.8	39899	2520.9	64QAM	1	74	1	0	17.42	17.47	20.46	23.58	0.228
	00.20	2000.0	00000	2020.0	0.4	75	0	100	0	17.39	17.34	20.38	23.50	0.224
15MHz+	40523	2583.3	40694	2600.4	64QAM	1	74	1	0	17.04	17.08	20.07	23.19	0.208
20MHz	10020		1000 1	2000.1	010,111	75	0	100	0	17.43	17.39	20.42	23.54	0.226
	41319	2662.9	41490	2680.0	64QAM	1	74	1	0	17.10	17.13	20.13	23.25	0.211
	11010	2002.0	11100	2000.0	0 1 Q/W	75	0	100	0	17.46	17.41	20.44	23.56	0.227

Part 27 / RSS 199\_ EIRP Limit (W) 2 Antenna Gain 3.12

# OUTPUT POWER FOR LTE BAND 41 (20MHz + 5MHz)

	DC	c	SC	C1		P	CC	S	CC1	C	Conducte	d	EIRP	EIRP
Bandwidth		,0	30	C1	Modulation	ı	RB	F	RB	Av	erage (dE	Bm)	Average	Average
	Earfcn	MHz	Earfon	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
	39750	2506.0	39867	2517.7	QPSK	1	99	1	0	23.19	20.21	23.19	26.31	0.428
	03700	2000.0	33007	2017.7	QIOI	100	0	25	0	18.83	18.36	21.34	24.46	0.279
20MHz+	40595	2590.5	40712	2602.2	QPSK	1	99	1	0	23.33	20.32	23.33	26.45	0.442
5MHz	40000	2000.0	40712	2002.2	QI SIX	100	0	25	0	18.93	18.38	21.41	24.53	0.284
	41440	2675.0	41557	2686.7	QPSK	1	99	1	0	23.68	20.66	23.68	26.80	0.479
	71770	2075.0	41007	2000.1	QIOI	100	0	25	0	19.03	18.47	21.50	24.62	0.290
	39750	2506.0	39867	2517.7	16QAM	1	99	1	0	22.71	19.68	22.72	25.84	0.384
	03700	2000.0	33007	2017.7	TOQAW	100	0	25	0	17.80	17.34	20.33	23.45	0.221
20MHz+	40595	2590.5	40712	2602.2	16QAM	1	99	1	0	22.63	19.61	22.63	25.75	0.376
5MHz	40000	2000.0	40712	2002.2	100/11	100	0	25	0	17.88	17.43	20.42	23.54	0.226
	41440	2675.0	41557	2686.7	16QAM	1	99	1	0	23.09	20.12	23.09	26.21	0.418
	71770	2075.0	41007	2000.1	TOQAW	100	0	25	0	18.59	18.05	21.09	24.21	0.264
	39750	2506.0	39867	2517.7	64QAM	1	99	1	0	20.05	17.03	20.05	23.17	0.207
	03700	2000.0	03007	2017.7	OTQ/IVI	100	0	25	0	17.85	17.42	20.38	23.50	0.224
20MHz+	40595	2590.5	40712	2602.2	64QAM	1	99	1	0	20.59	17.51	20.59	23.71	0.235
5MHz	10000	2000.0	70/12	2002.2	OTQ/IVI	100	0	25	0	17.81	17.45	20.41	23.53	0.225
	41440	2675.0	41557	2686.7	64QAM	1	99	1	0	20.16	17.14	20.16	23.28	0.213
	71770	2010.0	+1007	2000.7	UT WAIN	100	0	25	0	18.58	18.07	21.08	24.20	0.263

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Part 27 / RSS 199\_ EIRP Limit (W) Antenna Gain 3.12

# OUTPUT POWER FOR LTE BAND 41 (20MHz + 10MHz)

Antenna Gan			0.12											
	DC	CC	90	C1		P	CC	S	CC1	C	Conducte	d	EIRP	EIRP
Bandwidth		,,	30	C1	Modulation	I	RB	F	RB	Av	erage (dE	Bm)	Average	Average
	Earfcn	MHz	Earfon	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
	39750	2506.0	39894	2520.4	QPSK	1	99	1	0	22.15	20.15	23.13	26.25	0.422
	33730	2500.0	33034	2020.4	QI SIX	100	0	50	0	18.47	18.39	21.41	24.53	0.284
20MHz+	40571	2588.1	40715	2602.5	QPSK	1	99	1	0	22.36	20.26	23.29	26.41	0.438
10MHz	40071	2000.1	40713	2002.5	QI OIX	100	0	50	0	18.44	18.47	21.44	24.56	0.286
	41391	2670.1	41535	2684.5	QPSK	1	99	1	0	22.31	20.27	23.28	26.40	0.437
	41001	2070.1	41000	2001.0	QI OIL	100	0	50	0	18.59	18.51	21.53	24.65	0.292
	39750	2506.0	39894	2520.4	16QAM	1	99	1	0	21.68	19.76	22.75	25.87	0.386
	00100	2000.0	00001	2020.1	100,111	100	0	50	0	17.45	17.40	20.41	23.53	0.225
20MHz+	40571	2588.1	40715	2602.5	16QAM	1	99	1	0	21.55	19.59	22.62	25.74	0.375
10MHz		2000	.0	2002.0		100	0	50	0	17.52	17.48	20.48	23.60	0.229
	41391	2670.1	41535	2684.5	16QAM	1	99	1	0	21.63	19.70	22.70	25.82	0.382
	11001	2070.1	11000	2001.0	100,111	100	0	50	0	17.95	17.90	20.91	24.03	0.253
	39750	2506.0	39894	2520.4	64QAM	1	99	1	0	19.00	17.03	20.05	23.17	0.207
	00.00	2000.0		202011	0.0	100	0	50	0	17.38	17.40	20.38	23.50	0.224
20MHz+	40571	2588.1	40715	2602.5	64QAM	1	99	1	0	19.03	17.13	20.10	23.22	0.210
10MHz		2000.1	.57 10		5 . W W	100	0	50	0	17.39	17.44	20.40	23.52	0.225
	41391	2670.1	41535	2684.5	64QAM	1	99	1	0	19.08	17.13	20.14	23.26	0.212
	11001	20.0.1	1.500	2004.0	0 1 3/ WI	100	0	50	0	17.79	17.83	20.80	23.92	0.247

Part 27 / RSS 199\_ EIRP Limit (W) 2 Antenna Gain 3.12

### OUTPUT POWER FOR LTE BAND 41 (20MHz + 15MHz)

Bandwidth	PC	cc	sc	C1	Modulation		CC RB		CC1 RB		Conducte erage (dE		EIRP Average	EIRP Average
	Earfon	MHz	Earfon	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
	39750	2506.0	39921	2523.1	QPSK	1	99	1	0	20.79	20.83	23.82	26.94	0.494
	33730	2500.0	03321	2020.1	QI OIX	100	0	75	0	18.34	18.34	21.35	24.47	0.280
20MHz+	40546	2585.6	40717	2602.7	QPSK	1	99	1	0	20.17	20.22	23.21	26.33	0.430
15MHz	40040	2000.0	40717	2002.1	QI OIX	100	0	75	0	18.35	18.36	21.37	24.49	0.281
	41341	2665.1	41512	2682.2	QPSK	1	99	1	0	20.50	20.47	23.50	26.62	0.459
	71071	2000.1	71012	2002.2	QI OIX	100	0	75	0	18.54	18.60	21.58	24.70	0.295
	39750	2506.0	39921	2523.1	16QAM	1	99	1	0	19.21	19.24	22.23	25.35	0.343
	00700	2000.0	00021	2020.1	100/10	100	0	75	0	17.34	17.34	20.35	23.47	0.222
20MHz+	40546	2585.6	40717	2602.7	16QAM	1	99	1	0	19.29	19.34	22.33	25.45	0.351
15MHz	10010	2000.0	107 17	2002.1	100,111	100	0	75	0	17.42	17.42	20.43	23.55	0.226
	41341	2665.1	41512	2682.2	16QAM	1	99	1	0	19.32	19.39	22.36	25.48	0.353
	71071	2000.1	71012	2002.2	100/10	100	0	75	0	17.50	17.45	20.48	23.60	0.229
	39750	2506.0	39921	2523.1	64QAM	1	99	1	0	17.32	17.36	20.35	23.47	0.222
	00700	2000.0	00021	2020.1	0+Q/W	100	0	75	0	17.36	17.27	20.33	23.45	0.221
20MHz+	40546	2585.6	40717	2602.7	64QAM	1	99	1	0	17.09	17.04	20.08	23.20	0.209
15MHz	70070	2000.0	70717	2002.1	O-T Q/TWI	100	0	75	0	17.37	17.40	20.40	23.52	0.225
	41341	2665.1	41512	2682.2	64QAM	1	99	1	0	17.16	17.13	20.16	23.28	0.213
	71071	2000.1	71012	2002.2	O-I Q/IVI	100	0	75	0	17.40	17.36	20.39	23.51	0.224

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Part 27 / RSS 199\_ EIRP Limit (W) Antenna Gain 3.12

# OUTPUT POWER FOR LTE BAND 41 (20MHz + 20MHz)

Antenna Gan	··		0.12											
	PC	cc	SC	:C1		P	CC	S	CC1	C	Conducte	d	EIRP	EIRP
Bandwidth	, ,	,0		,	Modulation	1	RB	ı	RB	Av	erage (dE	Bm)	Average	Average
	Earfon	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
	39750	2506.0	39948	2525.8	QPSK	1	99	1	0	20.24	20.21	23.23	26.35	0.432
	03700	2000.0	00040	2020.0	QI OIX	100	0	100	0	18.25	18.35	21.31	24.43	0.277
20MHz+	40521	2583.1	40719	2602.9	QPSK	1	99	1	0	20.44	20.53	23.49	26.61	0.458
20MHz	40021	2000.1	40713	2002.5	QI OIX	100	0	100	0	18.39	18.37	21.39	24.51	0.282
	41292	2660.2	41490	2680.0	QPSK	1	99	1	0	20.33	20.33	23.34	26.46	0.443
	41232	2000.2	71430	2000.0	QI OIX	100	0	100	0	18.43	18.45	21.45	24.57	0.286
	39750	2506.0	39948	2525.8	16QAM	1	99	1	0	19.25	19.34	22.30	25.42	0.348
	00100	2000.0	00010	2020.0	100/10	100	0	100	0	17.30	17.34	20.33	23.45	0.221
20MHz+	40521	2583.1	40719	2602.9	16QAM	1	99	1	0	19.46	19.47	22.48	25.60	0.363
20MHz	40021	2000.1	40713	2002.5	100/101	100	0	100	0	17.39	17.38	20.40	23.52	0.225
	41292	2660.2	41490	2680.0	16QAM	1	99	1	0	19.51	19.53	22.53	25.65	0.367
	11202	2000.2	11100	2000.0	100/101	100	0	100	0	17.44	17.45	20.45	23.57	0.228
	39750	2506.0	39948	2525.8	64QAM	1	99	1	0	17.28	17.37	20.34	23.46	0.222
	00700	2000.0	00010	2020.0	0100/101	100	0	100	0	17.27	17.31	20.30	23.42	0.220
20MHz+	40521	2583.1	40719	2602.9	64QAM	1	99	1	0	17.07	17.08	20.09	23.21	0.209
20MHz	10021	2000.1	10710	2002.0	0100,111	100	0	100	0	17.34	17.42	20.39	23.51	0.224
	41292	2660.2	41490	2680.0	64QAM	1	99	1	0	17.56	17.53	20.55	23.67	0.233
	71202	2000.2	11430	2000.0	0 1 Q/ WI	100	0	100	0	17.43	17.44	20.45	23.57	0.228

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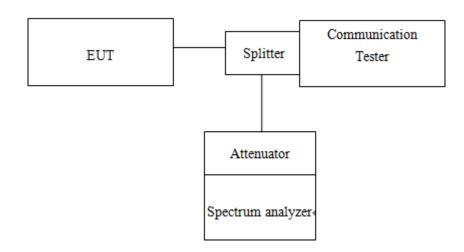
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### 8 OCCUPIED BANDWIDTH MEASUREMENT

# 8.1 Standard Applicable

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power.

### 8.2 Test Set-up



### 8.3 Measurement Procedure

### 99% &26dB Bandwidth with detector peak

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW, -26dBc display line was placed on the screen (or 26dB bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. Then set RBW to 99% bandwidth, RBW= 1%, VBW= 3 RBW, with span > 2 \* Signal BW, set % Power = 99%.

### 99% Bandwidth with detector sample

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about  $1\% \sim 5\%$  of emission BW, VBW= 3 times RBW, -20dBc display line was placed on the screen (or 20dB bandwidth). Set RBW to 99% bandwidth, RBW=  $1\% \sim 5\%$ , VBW= 3 RBW, with span > 2 \* Signal BW, set % Power = 99%.

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### 8.4 Measurement Result

### LTE BAND 5

Band	Bandwidth	RB Allocation/RB	Frequency		99% BW (MHz)			26 dB BW (MHz)	
		Offset	(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
LTE BAND 5	5MHz+10MHz	25/0 + 50/0	836.5	13.827	13.796	13.824	14.58	14.6	14.6
LTE BAND 5	10MHz + 5MHz	50/0 + 25/0	836.5	13.819	13.837	13.768	14.59	14.6	14.54
LTE BAND 5	10MHz + 10MHz	50/0 + 50/0	836.5	18.797	18.692	18.739	19.77	19.5	19.82

### LTE BAND 7

Band	Bandwidth	RB Allocation/RB	Frequency		99% BW (MHz)			26 dB BW (MHz)	
		Offset	(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
LTE BAND 7	10MHz + 20MHz	50/0 + 100/0	2535.0	27.779	27.794	27.787	29.39	29.38	29.33
LTE BAND 7	20MHz + 10MHz	100/0 + 50/0	2535.0	27.822	27.788	27.785	29.59	29.4	29.56
LTE BAND 7	15MHz + 15MHz	75/0 + 75/0	2535.0	28.461	28.405	28.365	30.16	30.06	30.15
LTE BAND 7	15MHz + 20MHz	75/0 + 100/0	2535.0	32.682	32.719	32.677	34.57	34.59	34.48
LTE BAND 7	20MHz + 15MHz	100/0 + 75/0	2535.0	32.696	32.653	32.668	34.65	34.57	34.63
LTE BAND 7	20MHz+20MHz	100/0 + 100/0	2535.0	37.706	37.706	37.669	40.05	40.08	43.75

# LTE BAND 38

Band	Bandwidth	RB Allocation/RB Offset	Freqency (MHz)	99% BW (MHz)			26 dB BW (MHz)		
				QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
LTE BAND 38	15MHz+15MHz	75/0 + 75/0	2595.0	28.347	28.402	28.33	30.06	30.01	30.05
LTE BAND 38	20MHz + 20MHz	100/0 + 100/0	2595.0	37.693	37.741	37.706	39.82	39.87	40.62

### LTE BAND 41

Band	Bandwidth	RB Allocation/RB Offset	Freqency (MHz)	99% BW (MHz)			26 dB BW (MHz)		
				QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
LTE BAND 41	5MHz + 20MHz	25/0 + 100/0	2593.0	22.94	22.894	22.9	24.03	24.11	24.02
LTE BAND 41	20MHz + 5MHz	100/0 + 25/0	2593.0	22.921	22.908	22.901	24.22	24.13	24.06
LTE BAND 41	10MHz + 20MHz	50/0 + 100/0	2593.0	27.793	27.790	27.748	29.41	29.38	29.34
LTE BAND 41	20MHz + 10MHz	100/0 + 50/0	2593.0	27.829	27.816	27.771	29.33	29.34	29.45
LTE BAND 41	15MHz + 15MHz	75/0 + 75/0	2593.0	28.389	28.388	28.313	30.03	29.97	30.13
LTE BAND 41	15MHz + 20MHz	75/0 + 100/0	2593.0	32.687	32.638	32.636	34.63	34.63	34.41
LTE BAND 41	20MHz + 15MHz	100/0 + 75/0	2593.0	32.683	32.645	32.64	34.51	34.71	34.74
LTE BAND 41	20MHz + 20MHz	100/0 + 100/0	2593.0	37.656	37.584	37.663	39.76	39.86	39.66

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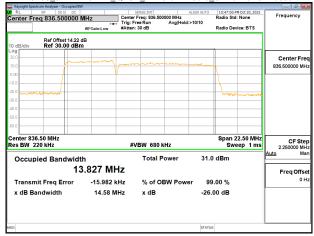
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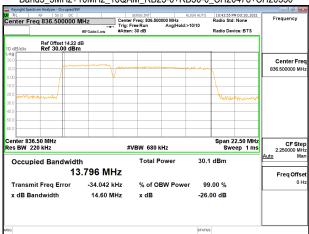


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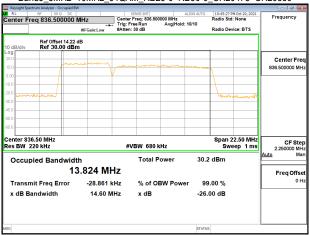
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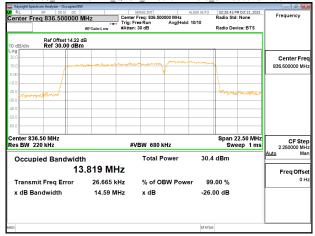
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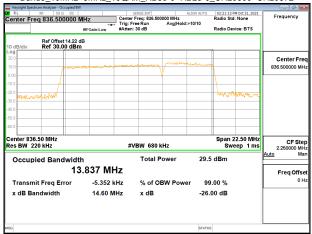
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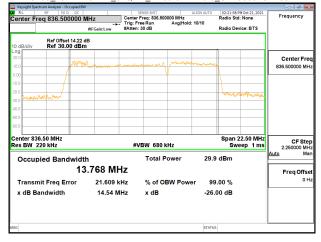
Band5 10MHz+5MHz QPSK RB50-0+RB25-0 CH20500+CH20572



Band5\_10MHz+5MHz\_16QAM\_RB50-0+RB25-0\_CH20500+CH20572



Band5\_10MHz+5MHz\_64QAM\_RB50-0+RB25-0\_CH20500+CH20572



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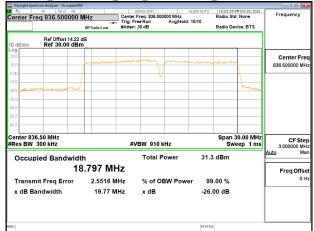
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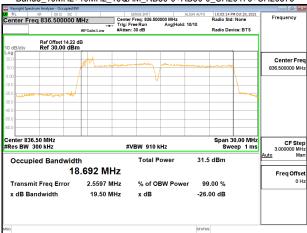


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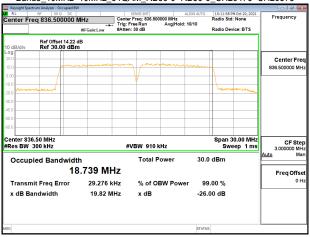
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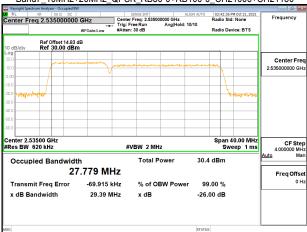
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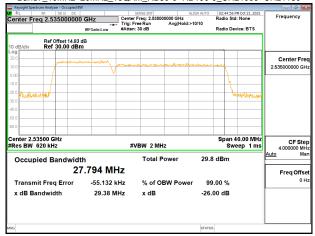
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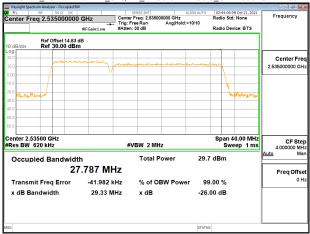
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### Band7\_10MHz+20MHz\_16QAM\_RB50-0+RB100-0\_CH21006+CH21150



## Band7\_10MHz+20MHz\_64QAM\_RB50-0+RB100-0\_CH21006+CH21150



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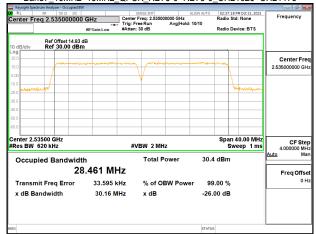
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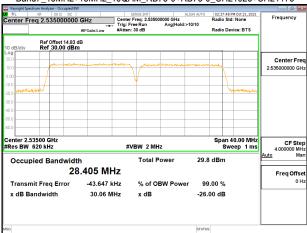


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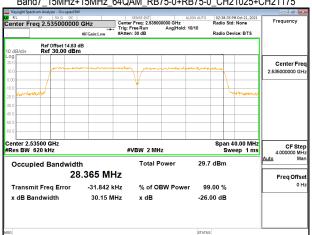
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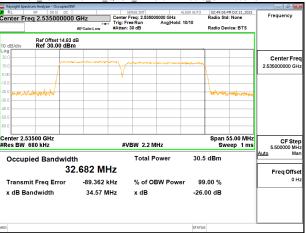
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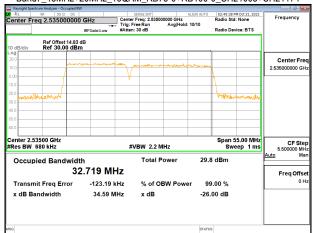
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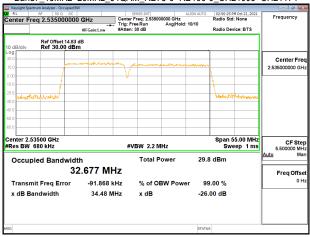
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Band7\_15MHz+20MHz\_16QAM\_RB75-0+RB100-0\_CH21003+CH21174



Band7\_15MHz+20MHz\_64QAM\_RB75-0+RB100-0\_CH21003+CH21174



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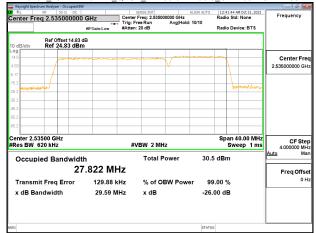
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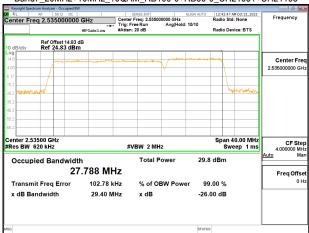


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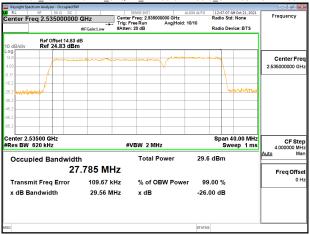




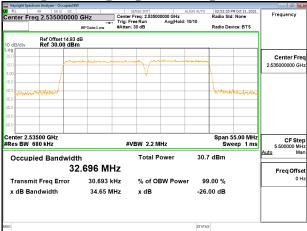
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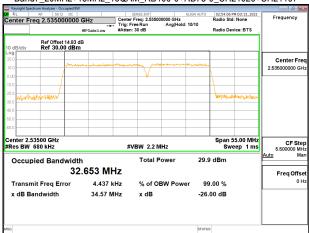
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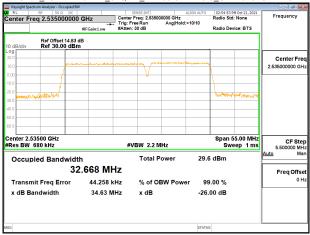
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## Band7\_20MHz+15MHz\_64QAM\_RB100-0+RB75-0\_CH21026+CH21197



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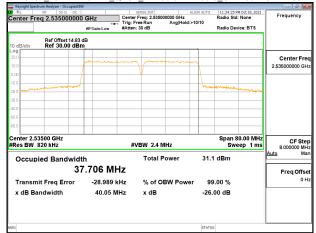
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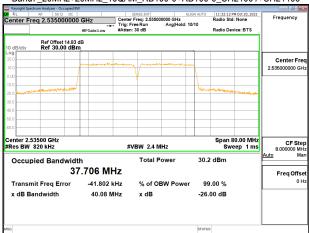


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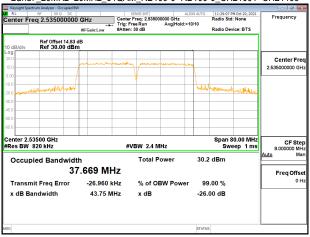




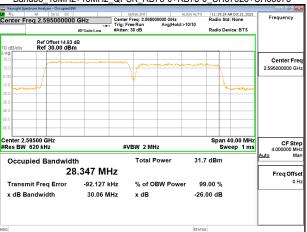
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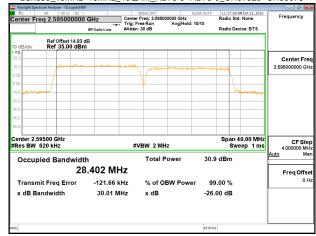
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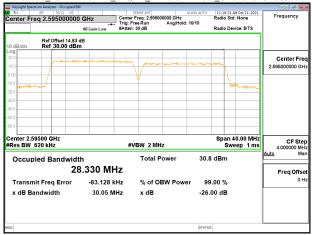
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### Band38\_15MHz+15MHz\_16QAM\_RB75-0+RB75-0\_CH37925+CH38075



## Band38\_15MHz+15MHz\_64QAM\_RB75-0+RB75-0\_CH37925+CH38075



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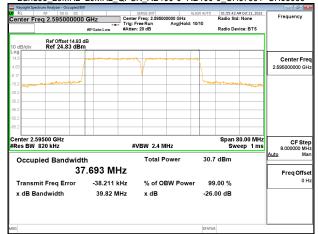
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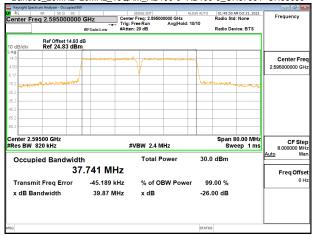


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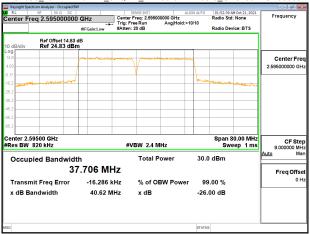
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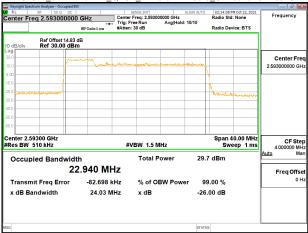
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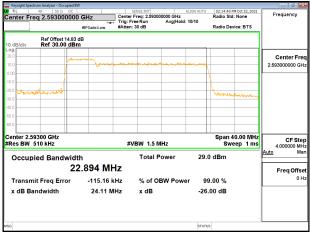
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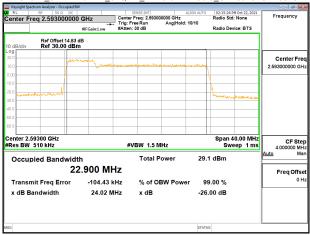
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### Band41\_5MHz+20MHz\_16QAM\_RB25-0+RB100-0\_CH40528+CH40645



## Band41\_5MHz+20MHz\_64QAM\_RB25-0+RB100-0\_CH40528+CH40645



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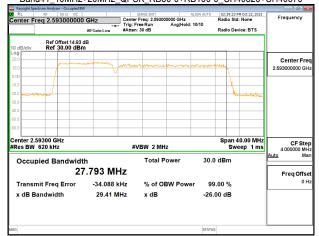
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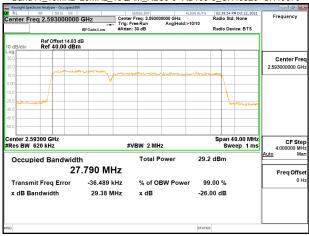


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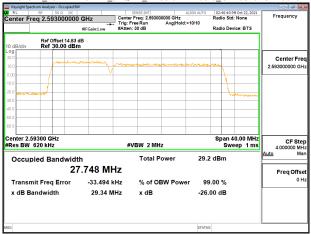
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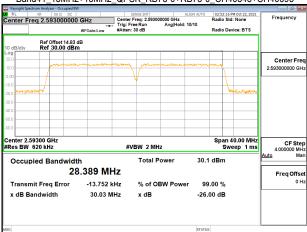
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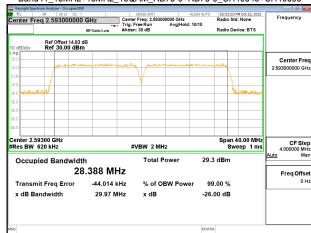
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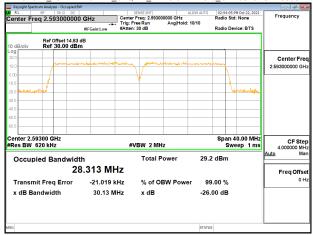
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Band41\_15MHz+15MHz\_64QAM\_RB75-0+RB75-0\_CH40545+CH40695



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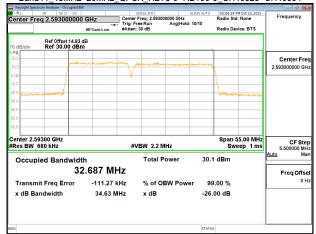
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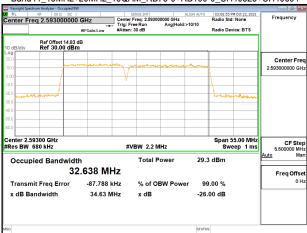


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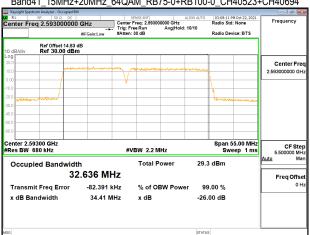
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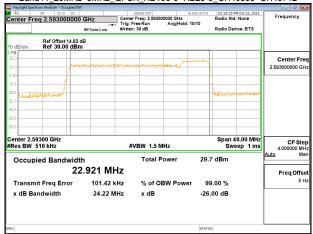
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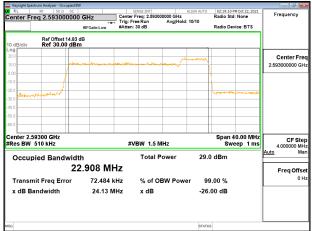
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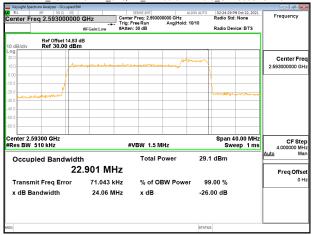
### Band41\_20MHz+5MHz\_QPSK\_RB100-0+RB25-0\_CH40595+CH40712



### Band41\_20MHz+5MHz\_16QAM\_RB100-0+RB25-0\_CH40595+CH40712



## Band41\_20MHz+5MHz\_64QAM\_RB100-0+RB25-0\_CH40595+CH40712



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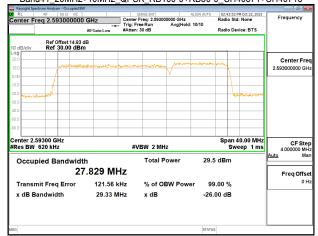
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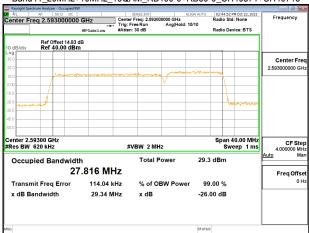


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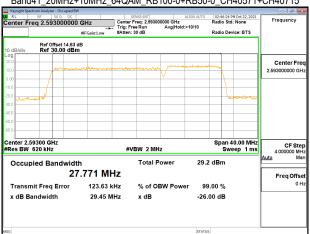
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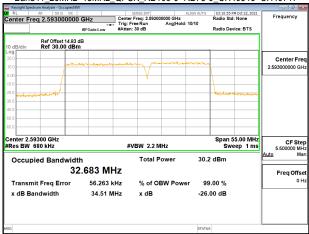
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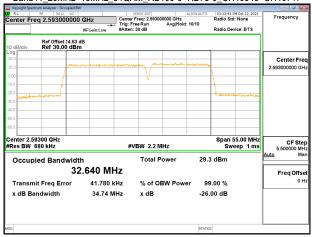
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Band41\_20MHz+15MHz\_16QAM\_RB100-0+RB75-0\_CH40546+CH40717



Band41\_20MHz+15MHz\_64QAM\_RB100-0+RB75-0\_CH40546+CH40717



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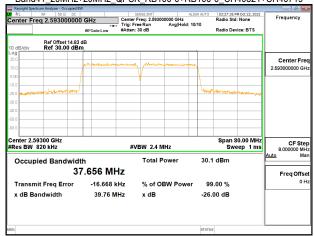
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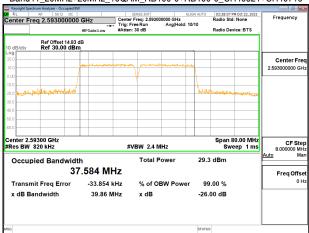


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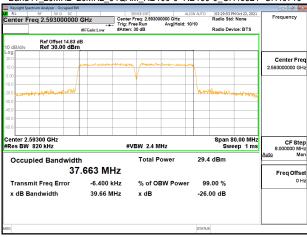
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### Band41\_20MHz+20MHz\_16QAM\_RB100-0+RB100-0\_CH40521+CH40719



## Band41\_20MHz+20MHz\_64QAM\_RB100-0+RB100-0\_CH40521+CH40719



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# **OUT OF BAND EMISSION AT ANTENNA TERMINALS**

#### 9.1 Standard Applicable

FCC §22.917(a), §27.53(h) RSS-132 §5.5, RSS-199 §4.5

Out of band emissions. 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.

# FCC §27.53(m) (4) (6)

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Measurement procedure. Compliance with these rules is based on the use of measurement nstrumentation employing a resolution bandwidth of 1 megahertz or greater. However, 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; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

# ISED RSS-132 §5.5

Mobile and base station equipment shall comply with the limits in (i) and (ii) below.

- i. In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least 43 + 10 log10p (watts).
- After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least 43 + 10 log10 p (watts). If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

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# RSS-199 §4.5

In the 1 MHz band immediately outside and adjacent to the channel edge, the unwanted emission power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth for base station and fixed subscriber equipment, and 2% for mobile subscriber equipment. Beyond the 1 MHz band, a resolution bandwidth of 1 MHz shall be used. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz, or 1% or 2% of the occupied bandwidth, as applicable.

Equipment shall comply with the following unwanted emission limits:

for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least 43 + 10 log10 p for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least:

40 + 10 log10 p from the channel edges to 5 MHz away

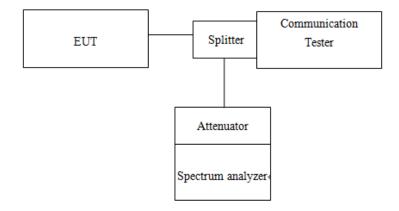
43 + 10 log10 p between 5 MHz and X MHz from the channel edges, and

55 + 10 log10 p at X MHz and beyond from the channel edges

In addition, the attenuation shall not be less than 43 + 10 log10 p on all frequencies between 2490.5 MHz and 2496 MHz, and 55 + 10 log10 p at or below 2490.5 MHz.

In (a) and (b), p is the transmitter power measured in watts and X is 6 MHz or the equipment occupied bandwidth, whichever is greater.

#### 9.2 **Test SET-UP**



#### 9.3 **Measurement Procedure**

#### 9.3.1 **Conducted Emission**

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

- To connect Antenna Port of EUT to Spectrum.
- 2. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
- 3. Allow trace to fully stabilize
- 4. Repeat above procedures until all default test channel measured were complete.

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# 9.3.2 Band Edge or Mask

- To connect Antenna Port of EUT to Spectrum.
- 2. The band edge of low and high channels for the highest RF powers was measured. Setting RBW ≥ 1% EBW.
- 3. Allow trace to fully stabilize
- 4. Repeat above procedures until all default test channel measured were complete.

# 9.4 Band Edge Measurement Result:

Refer to next pages.

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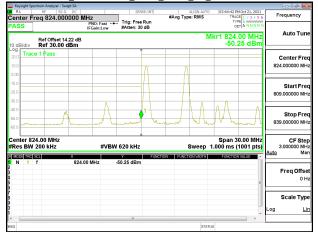
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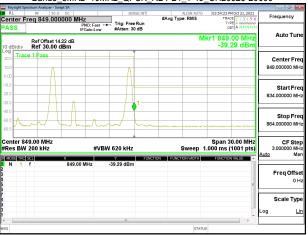


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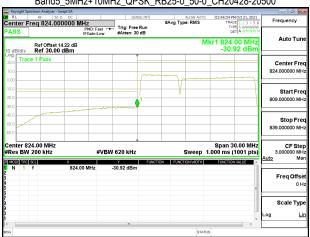
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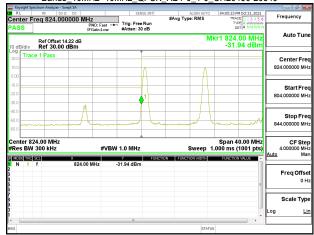
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## Band5\_5MHz+10MHz\_QPSK\_RB25-0\_50-0\_CH20528-20600



# Band5\_10MHz+10MHz\_QPSK\_RB1-0\_1-0\_CH20450-20549



### Band5\_10MHz+10MHz\_QPSK\_RB1-49\_1-49\_CH20501-20600



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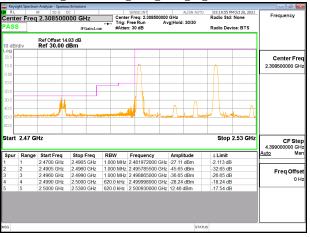
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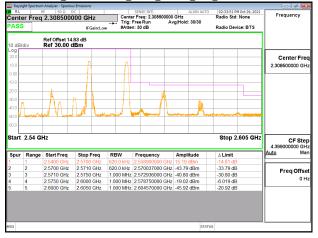
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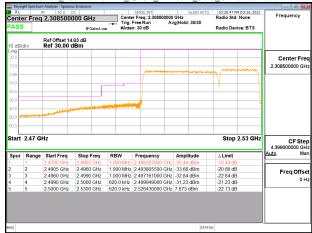
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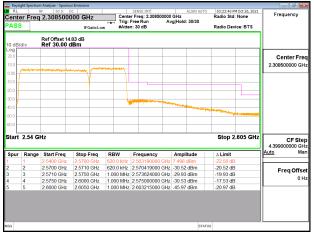
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### Band7\_20MHz+10MHz\_QPSK\_RB100-0\_50-0\_CH20850-20994



Band7\_20MHz+10MHz\_QPSK\_RB100-0\_50-0\_CH21251-21395



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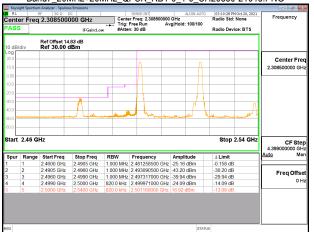
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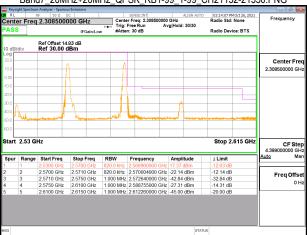


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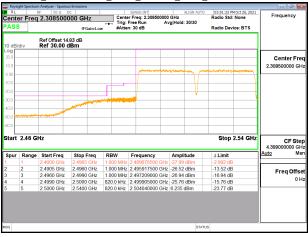
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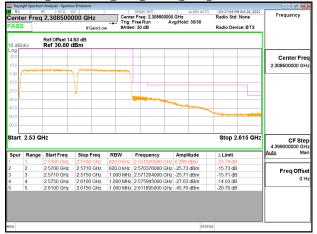
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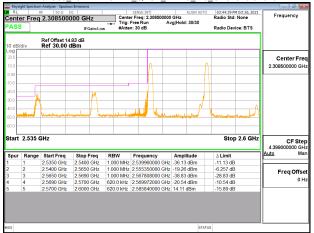
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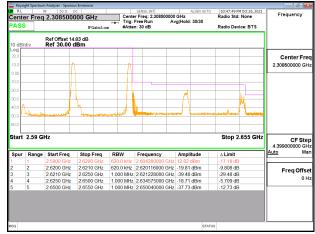
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### Band38\_15MHz+15MHz\_QPSK\_RB1-0\_1-0\_CH37825-37975



### Band38\_15MHz+15MHz\_QPSK\_RB1-74\_1-74\_CH38025-38175



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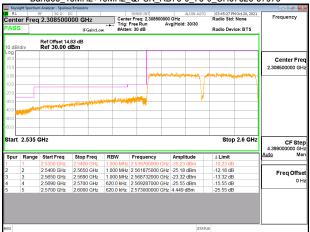
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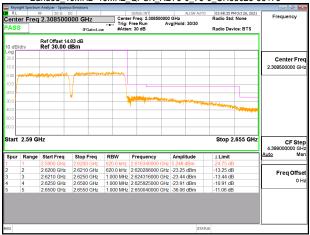


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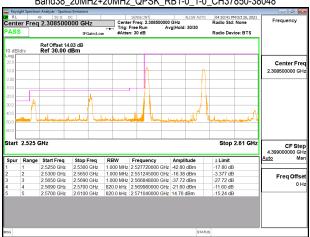
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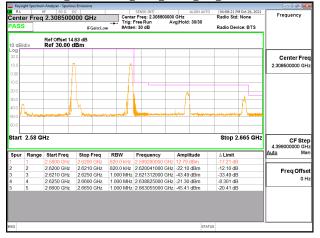
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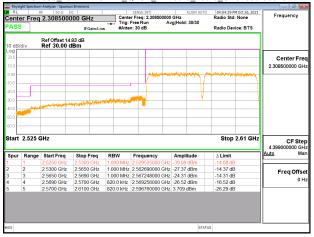
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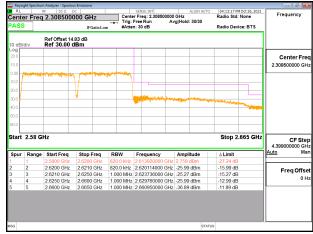
### Band38\_20MHz+20MHz\_QPSK\_RB1-99\_1-99\_CH37952-38150



### Band38\_20MHz+20MHz\_QPSK\_RB100-0\_100-0\_CH37850-38048



### Band38\_20MHz+20MHz\_QPSK\_RB100-0\_100-0\_CH37952-38150



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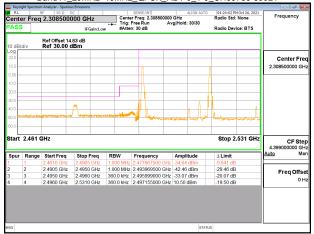
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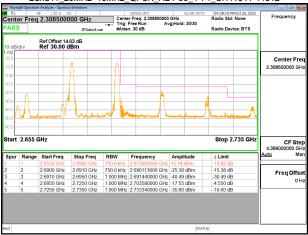


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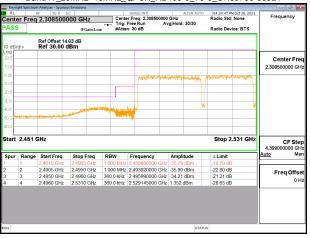
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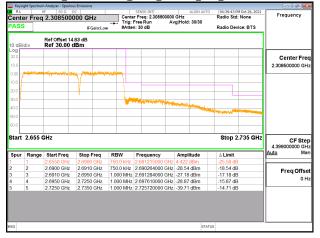
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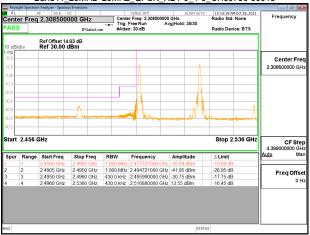
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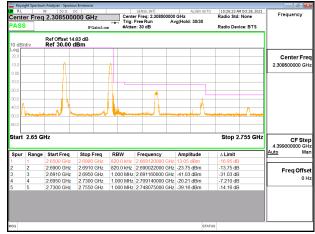
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### Band41\_20MHz+20MHz\_QPSK\_RB1-0\_1-0\_CH39750-39948



Band41\_20MHz+20MHz\_QPSK\_RB1-99\_1-99\_CH41292-41490



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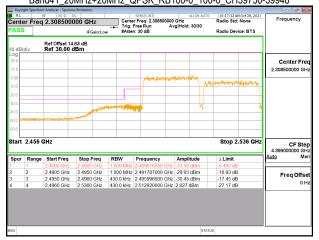
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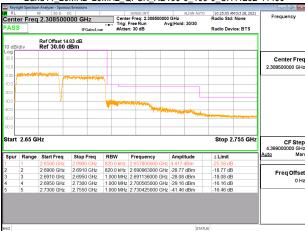


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# Band41\_20MHz+20MHz\_QPSK\_RB100-0\_100-0\_CH39750-39948



### Band41\_20MHz+20MHz\_QPSK\_RB100-0\_100-0\_CH41292-41490



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# 9.5 Spurious Emisson Measurement Result:

Refer to next pages.

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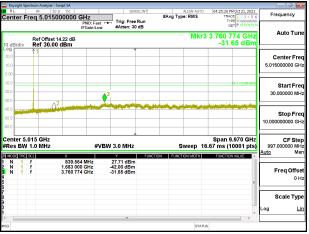
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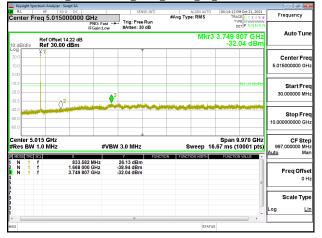
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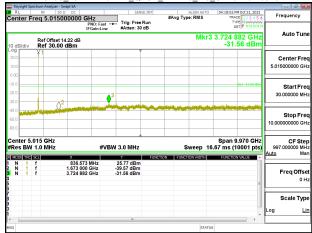
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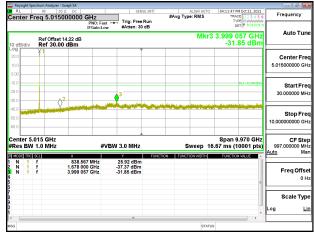
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Band5\_10MHz+10MHz\_QPSK\_RB1-49\_1-0\_CH20476-20575



Band5\_10MHz+10MHz\_QPSK\_RB1-49\_1-0\_CH20501-20600



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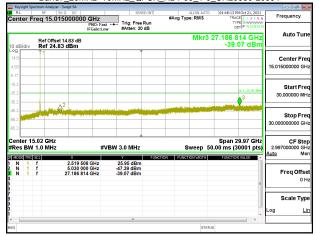
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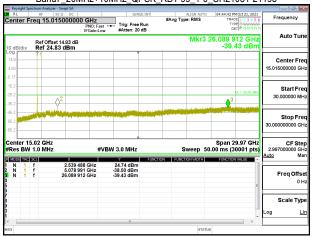


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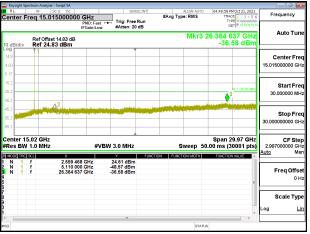
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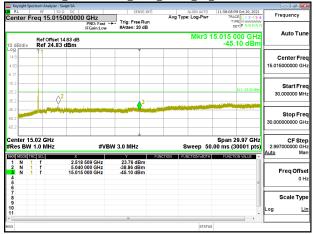
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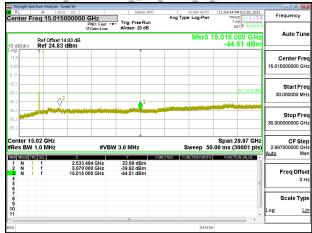
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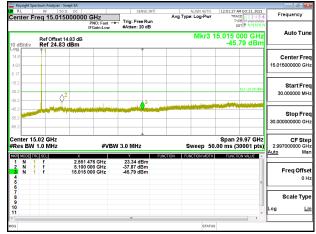
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Band7\_20MHz+20MHz\_QPSK\_RB1-99\_1-0\_CH21001-21199



Band7\_20MHz+20MHz\_QPSK\_RB1-99\_1-0\_CH21152-21350



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