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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT





Applicant: Quanta Computer Inc.

No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City

33377, Taiwan

Product Name: Clover Station Solo

Brand Name: clover Model No.: C501

Model Difference: N/A

Report Number: E2/2021/70039

FCC ID HFS-C501F

Issue Date: August 24, 2021

Date of Test: July 16, 2021 ~ August 13, 2021

Date of EUT Received: July 15, 2021

Approved By Jan L

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 2,24E & 27 C.

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					
E2/2021/70039	00	Original	August 24, 2021	Ariel Chang					

Note:

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GENERAL PRODUCT INFORMATION

1.1 **Product Description**

Product Name:	Clover Station Solo
Brand Name:	clover
Model No.:	C501
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	C051UQ12570003
Power Supply:	24V from AC/DC Adapter or 3.8V from Rechargeable Li-ion Polymer Battery

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1.2 **Operation Frequency Range**

LTE Band 2								
BW (MHz)	Operation	Operation Frequency (MHz)						
1.4	1850.7	-	1909.3					
3	1851.5	-	1908.5					
5	1852.5	-	1907.5					
10	1855.0	-	1905.0					
15	1857.5	-	1902.5					
20	1860.0	-	1900.0					
	LTE Bar	nd 4						
BW (MHz)	Operation	Freque	ency (MHz)					
1.4	1710.7	-	1754.3					
3	1711.5	-	1753.5					
	1710 F		47505					
5	1712.5	-	1752.5					
10	1712.5	-	1752.5					
		- - -						

LTE Band 12							
BW (MHz)	Operation Frequency (MHz)						
1.4	699.7	-	715.3				
3	700.5	-	714.5				
5	701.5	-	713.5				
10	704.0	-	711.0				
LTE Band 17							
BW (MHz)	Operation	Freque	ency (MHz)				
5	706.5	-	713.5				
10	709.0	-	711.0				
	LTE Ban	d 66					
BW (MHz)	Operation	Freque	ency (MHz)				
1.4	1710.7	-	1779.3				
3	1711.5	-	1778.5				
5	1712.5	-	1777.5				
10	1715.0	-	1775.0				
15	1717.5	-	1772.5				
20	1720.0	-	1770.0				

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1.3 **Antenna Designation**

Antenna Type	Antenna Model No.				
PIFA	Ant0				
Note: Transmission in frequencies in this test report are only available by the above antenna(s).					

Туре	Modulation	Freque	•	Peak Antenna Gain (dBi)
		(MHz)		Ant0
	LTE-Band 2	1850	~ 1910	1.89
	LTE-Band 4	1710	~ 1755	1.83
PIFA	LTE-Band 12	699	~ 716	-0.63
	LTE-Band 17	704	~ 716	-0.63
	LTE-Band 66	1710	~ 1780	1.83

Note: Antenna information is provided by the applicant.

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

LTE	BW	Modulation	ERP / I	/ EIRP		99%	Type of
Band	BVV	Modulation	(dBr	n)	(W)	99%	Emission
2	1.4	QPSK	24.11	EIRP	0.258	1.0899	1M09G7D
2	1.4	16QAM	22.94	EIRP	0.197	1.0897	1M09D7W
2	3	QPSK	24.15	EIRP	0.260	2.6932	2M69G7D
2	3	16QAM	22.60	EIRP	0.182	2.6922	2M69D7W
2	2 5	QPSK	24.18	EIRP	0.262	4.5078	4M51G7D
2	3	16QAM	23.61	EIRP	0.230	4.4945	4M49D7W
2	10	QPSK	24.28	EIRP	0.268	8.9831	8M98G7D
2	10	16QAM	23.30	EIRP	0.214	3.0906	3M09D7W
2	15	QPSK	24.33	EIRP	0.271	13.445	13M4G7D
2	13	16QAM	22.87	EIRP	0.194	3.227	3M23D7W
2	20	QPSK	24.09	EIRP	0.256	17.940	17M9G7D
2	20	16QAM	23.15	EIRP	0.207	3.775	3M77D7W

LTE Band	BW	Modulation	ERP / I (dBr		(W)	99%	Type of Emission
4	1.4	QPSK	24.28	EIRP	0.268	1.0907	1M09G7D
4	1.4	16QAM	22.86	EIRP	0.193	1.0884	1M09D7W
4	3	QPSK	24.06	EIRP	0.255	2.7105	2M71G7D
4	7	16QAM	22.57	EIRP	0.181	2.6937	2M69D7W
4	4 5	QPSK	24.26	EIRP	0.267	4.5062	4M51G7D
4	3	16QAM	23.29	EIRP	0.213	4.4938	4M49D7W
4	10	QPSK	24.49	EIRP	0.281	8.9784	8M98G7D
4	10	16QAM	22.54	EIRP	0.179	3.0635	3M06D7W
4	15	QPSK	24.43	EIRP	0.277	13.4380	13M4G7D
4	13	16QAM	22.71	EIRP	0.187	3.2163	3M22D7W
4	20	QPSK	24.36	EIRP	0.273	17.9060	17M9G7D
4	20	16QAM	22.96	EIRP	0.198	3.7769	3M78D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
12	1.4	QPSK	19.63	ERP	0.092	1.0905	1M09G7D
12	1.4	16QAM	18.32	ERP	0.068	1.0887	1M09D7W
12	3	QPSK	19.64	ERP	0.092	2.6907	2M69G7D
12)	16QAM	18.70	ERP	0.074	2.6924	2M69D7W
12	5	QPSK	19.65	ERP	0.092	4.4967	4M50G7D
12	5	16QAM	18.16	ERP	0.065	4.4924	4M49D7W
12	10	QPSK	19.70	ERP	0.093	8.9803	8M98G7D
12	10	16QAM	18.23	ERP	0.067	3.0436	3M04D7W

LTE Band	BW	Modulation	ERP/EIRP (dBm)		(VV)	99%	Type of Emission
17	5	QPSK	19.76	ERP	0.095	4.4999	4M50G7D
17	5	16QAM	18.50	ERP	0.071	4.4941	4M49D7W
17	10	QPSK	19.88	ERP	0.097	8.9907	8M99G7D
17	10	16QAM	18.70	ERP	0.074	3.0396	3M04D7W

LTE Band	BW	Modulation	ERP / I (dBr		(W)	99%	Type of Emission
	1.4	QPSK	23.76	EIRP	0.238	1.0905	1M09G7D
66	1.4	16QAM	22.66	EIRP	0.185	1.0902	1M09D7W
4.6	3	QPSK	23.96	EIRP	0.249	2.6962	2M70G7D
66	3	16QAM	22.86	EIRP	0.193	2.6935	2M69D7W
66	5	QPSK	24.02	EIRP	0.252	4.5034	4M50G7D
00	3	16QAM	22.67	EIRP	0.185	4.4931	4M49D7W
66	10	QPSK	24.38	EIRP	0.274	8.9573	8M96G7D
00	10	16QAM	23.20	EIRP	0.209	3.0322	3M03D7W
4.4	15	QPSK	24.52	EIRP	0.283	13.4310	13M4G7D
66	15	16QAM	22.75	EIRP	0.188	3.1834	3M18D7W
66	20	QPSK	24.16	EIRP	0.261	17.8850	17M9G7D
00	20	16QAM	22.97	EIRP	0.198	3.7367	3M74D7W

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Test Methodology of Applied Standards

FCC 47 CFR Part 2, 24E, 27C.

ISED RSS-130 Issue 2 Feb. 2019,

ISED RSS-133 Issue 6, Amendment 1 Jan. 18, 2018,

ISED RSS-139 Issue 3 July 16, 2015

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

KDB412172 D01 Determining ERP and EIRP v01r01

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1.6 **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, Keji 1st Rd., Guishan District,	Conducted A					
	Taoyuan City, Taiwan 333	Conducted B	TW0028				
	laoyuan Oity, Taiwan 333	Conducted C					
		Conducted D					
		Conducted E					
		Conducted F					
		Conducted G					

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.

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1.7 **Special Accessories**

No special accessories were used during testing.

Equipment Modifications

result came out very similar.

There was no modifications incorporated into the EUT.

1.9 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*9m*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

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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.

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.

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)	3.7	10	13.7
MB(1GHz - 2GHz)	3.9	10	13.9

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

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 2		0.65
LTE Band 4		0.69
LTE Band 12	24	0.63
LTE Band 17		0.61
LTE Band 66		0.66

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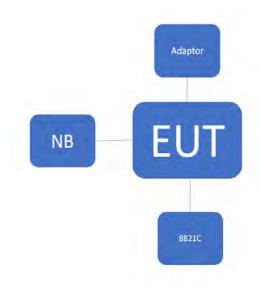
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2.6 **Test Configuration**

2.6.1 **Conducted Emission at the Antenna Port**



2.6.2 **Radiated Emission**



2.6.3 **Equipment used for test**

Equipment	Mfr/Brand	Model/Type No.	Series No.
Test Software	android	N/A	V10
Notebook	Lenovo	T470	P0001293
Base station	Anritsu	MT8821C	6262044732
Adaptor	N/A	N/A	N/A

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SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result		
§2.1046(a)	RF Power Output	Compliant		
§24.232(c) §27.50(c)(9)	ERP/ EIRP measurement	Compliant		
§2.1049(h)	99% & 26dB Occupied Bandwidth	Compliant		
§2.1051 §27.53(g)	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements	Compliant		
§2.1053	Field Strength of Spurious Radiation	Compliant		
§24.232(d)	Peak to Average Ratio	Compliant		
§2.1055(a)(1)	Frequency Stability	Compliant		

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DESCRIPTION OF TEST MODES

4.1 The Worst Test Modes and Channel Details

- 1. The EUT has been tested under operating condition.
- 2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, X(E1)Y(E2)Z(H) axis and antenna ports. The worst case was found as listed below. Following channel(s) was (were) selected for the final test as listed below:

BAND	H PLANE	E1 PLANE	E2 PLANE
LTE Band 2	V		
LTE Band 4	V		
LTE Band 12	V		
LTE Band 17	V		
LTE Band 66	V		

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Measurement Configuration 4.2

Toot Itoms	Band	Tes	st Chanr	nel		E	Bandwid	th (MHz)		Modulation			RB#	
Test Items	Dallu	L	М	Н	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full
	2	V	V	V	V	V	V	V	V	V	V	V	V	V	V
May Output	4	V	V	V	V	V	V	V	V	V	٧	V	V	V	V
Max. Output Power	12	V	V	V	V	V	V	V	-	-	٧	V	V	V	V
1 Ower	17	V	V	V	-	-	V	V	-	-	٧	V	V	V	V
	66	V	V	V	V	V	V	V	V	V	V	V	V	V	V
	2		V					V			٧				V
Erogopov	4		V					V			٧				V
Freqency Stability	12		V					V	-	-	٧				V
Stability	17		V		-	-		V	-	-	٧				V
	66		V					V			٧				V

Test Items	Dond	Tes	st Chanr	nel		E	3andwid	th (MHz)		Modulation		RB#		
Test Items	Band	L	М	Н	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full
26dB and 99%	2	V	V	V	V	V	V	V	V	V	V	V			V
	4	V	V	V	V	V	V	V	V	V	V	V			V
	12	V	V	V	V	V	V	V	-	-	V	V			V
Bandwidth	17	V	V	V	-	-	V	V	-	-	V	V			V
	66	V	V	V	V	V	V	V	V	V	V	V			V
	2	V	V	V	V	V	V	V	V	V		V			V
Dook to Av	4	V	V	V	V	V	V	V	V	V		V			V
Peak-to-Av	12	V	V	V	V	V	V	V	-	-		V			V
erage Ratio -	17	V	V	V	-	-	V	V	-	-		V			V
	66	V	V	V	V	V	V	V	V	V		V			V

Test Items	Dond	Band Test Channel		nel	Bandwidth (MHz)						Modulation		RB#		
Test Items	Бапи	L	М	Н	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full
	2	V		V	V	V	V	V	V	V	٧		V		V
	4	V		V	V	V	V	V	V	V	V		V		V
Band Edge	12	V		V	V	V	V	V	-	-	V		V		V
	17	V		V	-	-	V	V	-	-	V		V		V
	66	V		V	V	V	V	V	V	V	٧		V		V
	2	V	V	V	V	V	V	V	V	V	V		V		
Conducted	4	V	V	V	V	V	V	V	V	V	V		V		
Emission	12	V	V	V	V	V	V	V	1	-	٧		V		
LIIIISSIUII	17	V	V	V	-	-	V	V	-	-	V		V		
	66	V	V	V	V	V	V	V	V	V	V		V		

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5 MEASUREMENT UNCERTAINTY

Test Items	Und	Uncertainty				
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	+/-	1.69	dB			
Peak to Average Ratio	+/-	1	dB			
Frequency Stability vs. Temperature	+/-	1.53	Hz			
Frequency Stability vs. Voltage	+/-	1.53	Hz			
Temperature	+/-	0.4	$^{\circ}$ C			
Humidity	+/-	3.5	%			
DC / AC Power Source	+/-	1	%			

Radiated Spurious Emission Measurement Uncertainty									
	+/-	2.64	dB	9kHz~30MHz					
Polarization: Vertical	+/-	4.93	dB	30MHz - 1000MHz					
Polarization: Vertical	+/-	4.81	dB	1GHz - 18GHz					
	+/-	4.52	dB	18GHz - 40GHz					
	+/-	2.64	dB	9kHz~30MHz					
Polarization: Horizontal	+/-	4.45	dB	30MHz - 1000MHz					
Folarization: Horizontal	+/-	4.81	dB	1GHz - 18GHz					
	+/-	4.52	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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6 MAXMUM OUTPUT POWER

6.1 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.

6.1.1 ERP/EIRP LIMIT

According to FCC §2.1046

FCC 24.232(c)

Mobile and portable stations are limited to 2 W EIRP.

FCC 27.50(c)

(9) Control and mobile stations in the 698-746 MHz band are limited to 30 watts ERP.

FCC 27.50(d)

(4) Mobile, and portable (hand-held) stations operating in the 1710-1755 MHz, 1695-1710 MHz and 1755-1780 MHz bands are limited to 1W EIRP.

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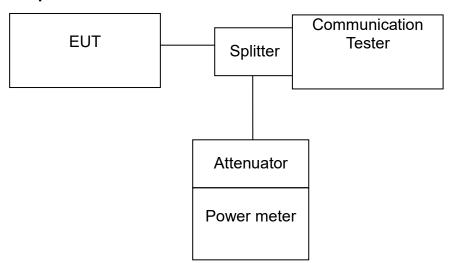
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6.2 **Test Set-up**



Note: Measurement setup for testing on Antenna connector

6.3 **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.

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.

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

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_{τ} = transmitter output power, expressed in dBW, dBm, or PSD;

Gτ = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

= signal attenuation in the connecting cable between the transmitter

and antenna, in dB.

6.5 **Measurement Equipment Used**

	Conducte	ed Emission Test Sit	e: Conducted	В		
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.	
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/13/2021	07/12/2022	
Radio Communica- tion Analyer	Anritsu	MT8820C	6201107337	07/28/2021	07/27/2022	
Attenuator	Marvelous	MVE2213-10	RF05	11/19/2020	11/18/2021	
DC Block	PASTER- NACK	PE8210	RF157	11/19/2020	11/18/2021	
Splitter	Woken	DOM35LW1A2	RF255	11/19/2020	11/18/2021	
Coaxial Cables	Woken	00100A1F1A185C	RF54	11/19/2020	11/18/2021	
Coaxial Cables	Woken	00100A1F1A185C	RF55	11/19/2020	11/18/2021	
Coaxial Cables	Woken	00100A1F1A185C	RF71	11/19/2020	11/18/2021	
Coaxial Cables	Woken	00100A1F1A185C	RF72	11/19/2020	11/18/2021	
DC Power Supply	Agilent	E3640A	MY53140006	05/28/2021	05/27/2022	
Temperature Chamber	TERCHY	MHK-120LK	1020582	07/01/2021	06/30/2022	
Test Software	SGS	Radio Test Software	Ver.21	N.C.R	N.C.R	
Radio Communica- tion Analyer	Anritsu	MT8820C	6201107337	07/28/2021	07/27/2022	

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6.6 **Measurement Results:**

Antenna	gain (dBi)	1.89							
		I	TE Band 2_Upl	link frequ	iency bar	nd : 1850 to 1910	O MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	22.06	23.95	33	-9.05
	18607	1850.7	OPSK	1	5	22.22	24.11	33	-8.89
	10007	1030.7	QI SIX	3	2	22.14	24.03	33	-8.97
				6	0	20.94	22.83	33	-10.17
				1	0	22.06	23.95	33	-9.05
1.4	18900	1880	QPSK	1	5	22.01	23.90	33	-9.1
1.4	10700	1000	QI SIX	3	2	21.93	23.82	33	-9.18
				6	0	20.96	22.85	33	-10.15
				1	0	21.87	23.76	33	-9.24
	19193	1909.3	QPSK	1	5	21.83	23.72	33	-9.28
	17175	1707.5	QI SIX	3	2	21.81	23.70	33	-9.3
				6	0	20.60	22.49	33	-10.51
				1	0	20.83	22.72	33	-10.28
	18607	1850.7	16OAM	1	5	20.88	22.77	33	-10.23
	10007	1030.7	100/1111	3	2	21.05	22.94	33	-10.06
				6	0	20.09	21.98	33	-11.02
				1	0	20.53	22.42	33	-10.58
1.4	18900	1880	16OAM	1	5	20.61	22.50	33	-10.5
1.7	10700	1000	100/1111	3	2	20.74	22.63	33	-10.37
				6	0	19.73	21.62	33	-11.38
				1	0	20.38	22.27	33	-10.73
	19193	1909.3	16OAM	1	5	20.75	22.64	33	-10.36
	17175	1707.3	IUQAWI	3	2	20.46	22.35	33	-10.65
				6	0	19.87	21.76	33	-11.24

Antenna	gain (dBi)	1.89							
		I	TE Band 2_Upl	ink frequ	ency bar	nd : 1850 to 1910	0 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	22.26	24.15	33	-8.85
	18615	1851.5	QPSK	1	14	22.00	23.89	33	-9.11
	10013	1001.0	QFSK	8	4	21.07	22.96	33	-10.04
				15	0	20.99	22.88	33	-10.12
				1	0	22.11	24.00	33	-9
3	18900	1880	QPSK	1	14	21.90	23.79	33	-9.21
3	10700	1000	QFSK	8	4	20.95	22.84	33	-10.16
				15	0	21.04	22.93	33	-10.07
	19185	1908.5	QPSK	1	0	21.92	23.81	33	-9.19
				1	14	21.84	23.73	33	-9.27
	17105	1700.5		8	4	20.97	22.86	33	-10.14
				15	0	20.85	22.74	33	-10.26
				1	0	20.71	22.60	33	-10.4
	18615	1851.5	16OAM	1	14	20.65	22.54	33	-10.46
	10013	1031.3	100/11/1	8	4	20.15	22.04	33	-10.96
				15	0	19.65	21.54	33	-11.46
				1	0	20.10	21.99	33	-11.01
3	18900	1880	16OAM	1	14	20.25	22.14	33	-10.86
	10700	1000	100/101	8	4	19.79	21.68	33	-11.32
	19185 1908.5		15	0	19.81	21.70	33	-11.3	
			1	0	20.71	22.60	33	-10.4	
		1908 5	16OAM	1	14	20.59	22.48	33	-10.52
		1908.5	16QAM	8	4	19.75	21.64	33	-11.36
				15	0	19.59	21.48	33	-11.52

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Antenna	gain (dBi)	1.89							
		l	_TE Band 2_Upl	ink frequ	iency bar	nd : 1850 to 191	0 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	22.29	24.18	33	-8.82
	18625	1852.5	QPSK	12	24	22.22	24.11	33	-8.89
				25	6	21.12	23.01 22.83	33	-9.99 -10.17
				1	0	21.87	23.76	33	-10.17
				1	24	22.03	23.92	33	-9.08
5	18900	1880	QPSK	12	6	21.08	22.97	33	-10.03
				25	0	20.94	22.83	33	-10.17
				1	0	21.97	23.86	33	-9.14
	10175	1007 5	QPSK	1	24	21.90	23.79	33	-9.21
	19175	1907.5	UPSK	12	6	20.93	22.82	33	-10.18
				25	0	20.96	22.85	33	-10.15
				1	0	21.72	23.61	33	-9.39
	18625	1852.5	16OAM	1	24	21.59	23.48	33	-9.52
	10023	1002.0	TOQAM	12	6	20.27	22.16	33	-10.84
				25	0	20.07	21.96	33	-11.04
				1	0	20.40	22.29	33	-10.71
5	18900	1880	16OAM	1	24	20.06	21.95	33	-11.05
3	10700	1000	100/101	12	6	19.93	21.82	33	-11.18
				25	0	19.38	21.27	33	-11.73
				1	0	20.53	22.42	33	-10.58
	19175	1907.5	16OAM	1	24	20.46	22.35	33	-10.65
		.,,,,,		12	6	19.61	21.50	33	-11.5
				25	0	19.58	21.47	33	-11.53

Antenna	gain (dBi)	1.89							
		I	_TE Band 2_Upl	ink frequ	iency bar	nd : 1850 to 191	0 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	22.39	24.28	33	-8.72
	18650	1855	QPSK	1	49	22.27	24.16	33	-8.84
	10000	1000	UPSK	25	12	21.03	22.92	33	-10.08
				50	0	20.59	22.48	33	-10.52
				1	0	22.19	24.08	33	-8.92
10	18900	1880	QPSK	1	49	21.89	23.78	33	-9.22
10	10 10700 1000	1000	QFSK	25	12	20.91	22.80	33	-10.2
				50	0	20.47	22.36	33	-10.64
			1	0	21.26	23.15	33	-9.85	
	19150	1905	QPSK	1	49	22.19	24.08	33	-8.92
	19150			25	12	19.33	21.22	33	-11.78
				50	0	19.96	21.85	33	-11.15
				1	0	21.41	23.30	33	-9.7
	18650	1855	16QAM	1	15	21.31	23.20	33	-9.8
	10000	1000	TOQAW	12	0	20.43	22.32	33	-10.68
				16	0	20.50	22.39	33	-10.61
				1	0	21.03	22.92	33	-10.08
10	18900	1880	16QAM	1	15	21.00	22.89	33	-10.11
10	10900	1000	TOQAW	12	0	20.41	22.30	33	-10.7
	19150 1905		16	0	20.61	22.50	33	-10.5	
			1	0	20.99	22.88	33	-10.12	
		1005	16QAM	1	15	20.88	22.77	33	-10.23
		1700	TOURIVI	12	0	20.47	22.36	33	-10.64
				16	0	20.65	22.54	33	-10.46

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Antenna	gain (dBi)	1.89							
		ı	_TE Band 2_Upl	ink frequ	iency bar	nd : 1850 to 1910	O MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
	40.475	1057.5	0001	1	0 74	22.44 21.50	24.33 23.39	33 33	-8.67 -9.61
	18675	1857.5	QPSK	36 75	18 0	21.03	22.92 22.83	33	-10.08 -10.17
				1	0 74	21.89	23.78	33	-9.22 -9.17
15	18900	1880	QPSK	36	18	20.97	22.86	33	-10.14
				75 1	0	20.90 21.99	22.79 23.88	33 33	-10.21 -9.12
	19125	1902.5	QPSK	36	74 18	22.14 20.83	24.03 22.72	33 33	-8.97 -10.28
				75 1	0	20.72 20.98	22.61 22.87	33 33	-10.39 -10.13
	18675	1857.5	16QAM	1 16	15 0	20.91	22.80	33	-10.2 -10.26
45	10000	1000	1,011	1	0	20.61	22.50	33	-10.5
15	18900	1880	16QAM	16	15 0	20.55 20.42	22.44 22.31	33 33	-10.56 -10.69
	19125	1902.5	16QAM	1	0 15	20.65 20.45	22.54 22.34	33 33	-10.46 -10.66
				16	0	20.39	22.28	33	-10.72

Antenna	gain (dBi)	1.89							
		I	_TE Band 2_Upl	link frequ	iency bar	nd : 1850 to 1910) MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	22.20	24.09	33	-8.91
	18700	1860	QPSK	1	99	22.07	23.96	33	-9.04
				50	25	20.88	22.77	33	-10.23
				100	0	21.13	23.02	33	-9.98
				1	0	22.14	24.03	33	-8.97
20	18900	200 1880	QPSK	1	99	22.15	24.04	33	-8.96
	20 18900			50	25	20.98	22.87	33	-10.13
				100	0	20.94	22.83	33	-10.17
				1	0	22.14	24.03	33	-8.97
	19100	1900	QPSK	1	99	22.15	24.04	33	-8.96
	17100	1700	QI OIK	50	25	20.98	22.87	33	-10.13
				100	0	20.93	22.82	33	-10.18
				1	0	21.26	23.15	33	-9.85
	18700	1860	16QAM	1	17	21.09	22.98	33	-10.02
				18	0	20.88	22.77	33	-10.23
				1	0	21.11	23.00	33	-10
20	18900	1880	16QAM	1	17	21.00	22.89	33	-10.11
				18	0	20.72	22.61	33	-10.39
				1	0	21.04	22.93	33	-10.07
	19100	1900	16QAM	1	17	20.93	22.82	33	-10.18
				18	0	20.79	22.68	33	-10.32

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Antenna	gain (dBi)	1.83							
		l	_TE Band 4_Upl	ink frequ	iency bar	nd : 1710 to 175	5 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
	19957	1710.7	QPSK	1 1 3	0 5 2	21.24 21.83 21.97	23.07 23.66 23.80	30 30 30	-6.93 -6.34 -6.2
				6 1 1	0 0 5	20.90 21.90 22.02	22.73 23.73 23.85	30 30 30	-7.27 -6.27 -6.15
1.4	20175	1732.5	QPSK	3	2	21.97 20.76	23.80 22.59	30 30	-6.2 -7.41
	20393	1754.3	QPSK	1 1 3 6	0 5 2 0	22.45 21.70 21.98 20.89	24.28 23.53 23.81 22.72	30 30 30 30	-5.72 -6.47 -6.19 -7.28
	19957	1710.7	16QAM	1 1 3 6	0 5 2	20.47 20.47 20.27 19.67	22.77 22.30 22.10 21.50	30 30 30 30	-7.26 -7.73 -7.7 -7.9 -8.5
1.4	20175	1732.5	16QAM	1 1 3 6	0 5 2 0	20.18 20.69 20.87 19.82	22.01 22.52 22.70 21.65	30 30 30 30	-7.99 -7.48 -7.3 -8.35
	20393	1754.3	16QAM	1 1 3 6	0 5 2 0	20.38 20.44 21.03 20.01	22.21 22.27 22.86 21.84	30 30 30 30	-7.79 -7.73 -7.14 -8.16

Antenna	gain (dBi)	1.83							
		I	_TE Band 4_Upl	ink frequ	iency bar	nd : 1710 to 175	5 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	21.92	23.75	30	-6.25
	19965	1711.5	QPSK	1	14	20.73	22.56	30	-7.44
	17703	1711.5	QFSK	8	4	21.05	22.88	30	-7.12
				15	0	20.99	22.82	30	-7.18
				1	0	21.88	23.71	30	-6.29
3	20175	1732.5	QPSK	1	14	21.17	23.00	30	-7
J		1732.3	QI SIK	8	4	20.91	22.74	30	-7.26
				15	0	20.90	22.73	30	-7.27
		1753.5	QPSK	1	0	21.96	23.79	30	-6.21
				1	14	22.23	24.06	30	-5.94
	20303	1755.5		8	4	20.81	22.64	30	-7.36
				15	0	20.83	22.66	30	-7.34
				1	0	20.49	22.32	30	-7.68
	19965	1711.5	16QAM	1	14	20.35	22.18	30	-7.82
	19903	1711.5	TOQAW	8	4	20.12	21.95	30	-8.05
				15	0	19.94	21.77	30	-8.23
				1	0	20.49	22.32	30	-7.68
3	20175	1732.5	16QAM	1	14	20.62	22.45	30	-7.55
3	20173	1732.3	TOQAM	8	4	19.87	21.70	30	-8.3
			15	0	19.73	21.56	30	-8.44	
				1	0	20.40	22.23	30	-7.77
	20385 1753.5	16QAM	1	14	20.74	22.57	30	-7.43	
		1700.0	TOQAM	8	4	19.74	21.57	30	-8.43
				15	0	19.87	21.70	30	-8.3

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Antenna	gain (dBi)	1.83							
		l	_TE Band 4_Upl	ink frequ	iency bar	nd : 1710 to 175	5 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
	10075	4740 5	0001	1	0 24	22.10 22.14	23.93 23.97	30 30	-6.07 -6.03
	19975	1712.5	QPSK	12 25	6	21.17 20.96	23.00 22.79	30 30	-7 -7.21
				1	0	22.14	23.97	30	-6.03
5	20175	1732.5	QPSK	12	6	22.30	24.13	30 30	-5.87 -7.16
				25 1	0	21.06 22.12	22.89 23.95	30 30	-7.11 -6.05
	20375	1752.5	QPSK	1 12	24 6	22.43 20.73	24.26 22.56	30 30	-5.74 -7.44
				25	0	20.92	22.75	30	-7.25
	19975	1712.5	16QAM	1	0 24	20.71 20.66	22.54 22.49	30 30	-7.46 -7.51
	19975	1712.5	TOQAM	12 25	6	19.61 19.94	21.44 21.77	30 30	-8.56 -8.23
				1	0	20.12	21.95	30	-8.05
5	20175	1732.5	16QAM	12	6	20.44 19.94	22.27	30	-7.73 -8.23
				25 1	0	20.00	21.83 23.29	30 30	-8.17 -6.71
	20375	1752.5	16QAM	1	24	20.67	22.50	30	-7.5
	20373	1702.0	TOQAIVI	12 25	6	19.85 20.18	21.68 22.01	30 30	-8.32 -7.99

Antenna	gain (dBi)	1.83							
		I	_TE Band 4_Upl	ink frequ	iency bar	nd : 1710 to 175	5 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	21.89	23.72	30	-6.28
	20000	1715	QPSK	1	49	22.05	23.88	30	-6.12
	20000	1713	QFSK	25	12	20.88	22.71	30	-7.29
				50	0	21.06	22.89	30	-7.11
				1	0	21.98	23.81	30	-6.19
10	20175	1732.5	QPSK	1	49	21.04	22.87	30	-7.13
10	10 20173 1732.3	1732.3	QFSK	25	12	20.94	22.77	30	-7.23
				50	0	20.80	22.63	30	-7.37
			1	0	22.18	24.01	30	-5.99	
	20350	1750	QPSK	1	49	22.66	24.49	30	-5.51
	20330	1750		25	12	21.01	22.84	30	-7.16
				50	0	20.91	22.74	30	-7.26
				1	0	20.71	22.54	30	-7.46
	20000	1715	16QAM	1	15	20.62	22.45	30	-7.55
	20000	1713	TOQAW	12	0	20.49	22.32	30	-7.68
				16	0	20.31	22.14	30	-7.86
				1	0	20.37	22.20	30	-7.8
10	20175	1722 5	16QAM	1	15	20.25	22.08	30	-7.92
10	10 20175 1732.5	1732.3	TOQAW	12	0	20.18	22.01	30	-7.99
			16	0	20.00	21.83	30	-8.17	
				1	0	20.27	22.10	30	-7.9
	20350	1750	16QAM	1	15	20.12	21.95	30	-8.05
	20350	1730	TOURIVI	12	0	20.13	21.96	30	-8.04
				16	0	20.02	21.85	30	-8.15

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Antenna	gain (dBi)	1.83							
		ı	_TE Band 4_Upl	ink frequ	iency bar	nd : 1710 to 175	5 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
	20025	1717.5	QPSK	1 1 36	0 74 18	22.09 22.05 20.96	23.92 23.88 22.79	30 30 30	-6.08 -6.12 -7.21
				75	0	20.88	22.71	30	-7.29
15	20175	1732.5	QPSK	1 1 36 75	74 18 0	20.22 22.14 20.90 20.86	22.05 23.97 22.73 22.69	30 30 30 30	-7.95 -6.03 -7.27 -7.31
	20325	1747.5	QPSK	1 1 36 75	0 74 18	22.48 22.60 21.11 20.96	24.31 24.43 22.94 22.79	30 30 30 30 30	-5.69 -5.57 -7.06 -7.21
	20025	1717.5	16QAM	1 1 16	0 15 0	20.88 20.70 20.63	22.71 22.53 22.46	30 30 30	-7.29 -7.47 -7.54
15	20175	1732.5	16QAM	1 1 16	0 15 0	20.65 20.55 20.49	22.48 22.38 22.32	30 30 30	-7.52 -7.62 -7.68
	20325	1747.5	16QAM	1 1 16	0 15 0	20.43 20.38 20.33	22.26 22.21 22.16	30 30 30	-7.74 -7.79 -7.84

Antenna	gain (dBi)	1.83							
		I	_TE Band 4_Upl	link frequ	uency bar	nd : 1710 to 175	5 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	22.12	23.95	30	-6.05
	20050	1720	QPSK	1	99	22.24	24.07	30	-5.93
	20000	1720	QI OIK	50	25	20.99	22.82	30	-7.18
				100	0	20.97	22.80	30	-7.2
				1	0	22.05	23.88	30	-6.12
20 20175	1732.5	QPSK	1	99	22.25	24.08	30	-5.92	
	1702.0		50	25	20.90	22.73	30	-7.27	
				100	0	21.00	22.83	30	-7.17
				1	0	22.53	24.36	30	-5.64
	20300	1745	QPSK	1	99	20.49	22.32	30	-7.68
	20300	1743	QI SIK	50	25	21.06	22.89	30	-7.11
				100	0	21.18	23.01	30	-6.99
				1	0	20.83	22.66	30	-7.34
	20050	1720	16QAM	1	17	20.80	22.63	30	-7.37
				18	0	20.68	22.51	30	-7.49
				1	0	20.39	22.22	30	-7.78
20	20175	1732.5	16QAM	1	17	20.15	21.98	30	-8.02
20 20170			18	0	20.00	21.83	30	-8.17	
			1	0	21.13	22.96	30	-7.04	
	20300	1745	16QAM	1	17	20.73	22.56	30	-7.44
				18	0	20.55	22.38	30	-7.62

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Antenna	gain (dBi)	-0.63								
			LTE Bar	nd 12_Up	link frequ	uency band : 69	9 to 716 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
				1	0	22.24	19.46	21.61	34.77	-15.31
	23017	699.7	OPSK	1	5	22.23	19.45	21.60	34.77	-15.32
	23017	077.7	QI SIK	3	2	22.28	19.50	21.65	34.77	-15.27
				6	0	21.28	18.50	20.65	34.77	-16.27
				1	0	22.30	19.52	21.67	34.77	-15.25
1.4	23095	707.5	OPSK	1	5	22.29	19.51	21.66	34.77	-15.26
	20070	707.0	Qi Sik	3	2	22.23	19.45	21.60	34.77	-15.32
				6	0	21.37	18.59	20.74	34.77	-16.18
				1	0	22.37	19.59	21.74	34.77	-15.18
	23173	715.5	QPSK	1	5	22.38	19.60	21.75	34.77	-15.17
				3	2	22.41	19.63	21.78	34.77	-15.14
				6	0	21.36	18.58	20.73	34.77	-16.19
				1	0	21.10	18.32	20.47	34.77	-16.45
	23017	699.7	16OAM	1	5	21.02	18.24	20.39	34.77	-16.53
	20017	07711	100 111	3	2	20.97	18.19	20.34	34.77	-16.58
				6	0	19.88	17.10	19.25	34.77	-17.67
				1	0	20.74	17.96	20.11	34.77	-16.81
1.4	23095	707.5	16OAM	1	5	20.89	18.11	20.26	34.77	-16.66
				3	2	20.74	17.96	20.11	34.77	-16.81
				6	0	20.18	17.40	19.55	34.77	-17.37
				1	0	20.90	18.12	20.27	34.77	-16.65
	23173	715.5	16OAM	1	5	20.70	17.92	20.07	34.77	-16.85
				3	2	20.96	18.18	20.33	34.77	-16.59
				6	0	20.29	17.51	19.66	34.77	-17.26

Antenna	gain (dBi)	-0.63								
			LTE Bar	nd 12_Up	link frequ	uency band : 69	9 to 716 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
				1	0	22.40	19.62	21.77	34.77	-15.15
	23025	700.5	QPSK	1	14	22.42	19.64	21.79	34.77	-15.13
	23023	700.5	UPSK	8	4	21.29	18.51	20.66	34.77	-16.26
				15	0	21.23	18.45	20.60	34.77	-16.32
				1	0	22.36	19.58	21.73	34.77	-15.19
3	23095	707.5	OPSK	1	14	22.33	19.55	21.70	34.77	-15.22
3	23093	707.5	UPSK	8	4	21.30	18.52	20.67	34.77	-16.25
				15	0	21.25	18.47	20.62	34.77	-16.30
				1	0	22.36	19.58	21.73	34.77	-15.19
	23165	714.5	OPSK	1	14	22.30	19.52	21.67	34.77	-15.25
	23103	714.5	QFSK	8	4	21.09	18.31	20.46	34.77	-16.46
				15	0	21.01	18.23	20.38	34.77	-16.54
				1	0	21.11	18.33	20.48	34.77	-16.44
	23025	700.5	16OAM	1	14	21.48	18.70	20.85	34.77	-16.07
	23023	700.5	TOUAIVI	8	4	20.16	17.38	19.53	34.77	-17.39
				15	0	20.19	17.41	19.56	34.77	-17.36
				1	0	20.93	18.15	20.30	34.77	-16.62
3	23095	707.5	16OAM	1	14	21.02	18.24	20.39	34.77	-16.53
J	23073	707.5	TOUAIVI	8	4	20.15	17.37	19.52	34.77	-17.40
				15	0	20.34	17.56	19.71	34.77	-17.21
				1	0	20.97	18.19	20.34	34.77	-16.58
	23165	714.5	16QAM	1	14	21.11	18.33	20.48	34.77	-16.44
	23100	714.3	TOUAIVI	8	4	20.28	17.50	19.65	34.77	-17.27
				15	0	20.33	17.55	19.70	34.77	-17.22

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Antenna	gain (dBi)	-0.63								
			LTE Bar	nd 12_Up	link frequ	uency band : 69	9 to 716 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
				1	0	22.30	19.52	21.67	34.77	-15.25
	23035	701.5	OPSK	1	24	22.43	19.65	21.80	34.77	-15.12
	23033	701.5	QI SK	12	6	21.50	18.72	20.87	34.77	-16.05
				25	0	21.42	18.64	20.79	34.77	-16.13
				1	0	22.38	19.60	21.75	34.77	-15.17
5	23095	707.5	QPSK	1	24	22.41	19.63	21.78	34.77	-15.14
5	23073	707.5	QI SIK	12	6	21.32	18.54	20.69	34.77	-16.23
				25	0	21.27	18.49	20.64	34.77	-16.28
				1	0	22.35	19.57	21.72	34.77	-15.20
	23155	713.5	OPSK	1	24	22.15	19.37	21.52	34.77	-15.40
	20100	7 10.0	Qi Sik	12	6	21.26	18.48	20.63	34.77	-16.29
				25	0	21.28	18.50	20.65	34.77	-16.27
				1	0	20.66	17.88	20.03	34.77	-16.89
	23035	701.5	16OAM	1	24	20.88	18.10	20.25	34.77	-16.67
	23000	701.5	100/101	12	6	20.23	17.45	19.60	34.77	-17.32
				25	0	20.38	17.60	19.75	34.77	-17.17
				1	0	20.38	17.60	19.75	34.77	-17.17
5	23095	707.5	16OAM	1	24	20.43	17.65	19.80	34.77	-17.12
	20070	707.0	100/11/1	12	6	20.00	17.22	19.37	34.77	-17.55
				25	0	20.31	17.53	19.68	34.77	-17.24
				1	0	20.56	17.78	19.93	34.77	-16.99
	23155	713.5	16OAM	1	24	20.94	18.16	20.31	34.77	-16.61
	20100	, 13.3	102/11/1	12	6	20.11	17.33	19.48	34.77	-17.44
				25	0	20.24	17.46	19.61	34.77	-17.31

Antenna	gain (dBi)	-0.63								
			LTE Bar	nd 12_Up	link frequ	uency band : 69	9 to 716 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
				1	0	22.17	19.39	21.54	34.77	-15.38
	23060	704	OPSK	1	49	22.48	19.70	21.85	34.77	-15.07
	23000	704	QFSK	25	12	21.35	18.57	20.72	34.77	-16.20
				50	0	21.28	18.50	20.65	34.77	-16.27
				1	0	22.23	19.45	21.60	34.77	-15.32
10	23095	707.5	QPSK	1	49	21.69	18.91	21.06	34.77	-15.86
10	23073	707.5	QFSK	25	12	21.31	18.53	20.68	34.77	-16.24
				50	0	21.28	18.50	20.65	34.77	-16.27
				1	0	22.30	19.52	21.67	34.77	-15.25
	23130	711	OPSK	1	49	22.31	19.53	21.68	34.77	-15.24
	23130	711	QI SK	25	12	21.50	18.72	20.87	34.77	-16.05
				50	0	21.29	18.51	20.66	34.77	-16.26
				1	0	20.86	18.08	20.23	34.77	-16.69
	23060	704	16OAM	1	15	20.72	17.94	20.09	34.77	-16.83
	23000	704	TOCAM	12	0	20.68	17.90	20.05	34.77	-16.87
				16	0	20.70	17.92	20.07	34.77	-16.85
				1	0	21.01	18.23	20.38	34.77	-16.54
10	23095	707.5	16OAM	1	15	20.83	18.05	20.20	34.77	-16.72
10	23073	707.5	TOCAM	12	0	20.89	18.11	20.26	34.77	-16.66
				16	0	20.45	17.67	19.82	34.77	-17.10
				1	0	20.91	18.13	20.28	34.77	-16.64
	23130	711	16OAM	1	15	20.73	17.95	20.10	34.77	-16.82
	23130	/ 11	IUQAW	12	0	20.65	17.87	20.02	34.77	-16.90
				16	0	20.44	17.66	19.81	34.77	-17.11

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Antenna	gain (dBi)	-0.63								
			LTE Bar	nd 17_Up	link frequ	uency band : 70)4 to 716 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
				1	0	22.03	19.25	21.40	34.77	-15.52
	23755	706.5	OPSK	1	24	22.24	19.46	21.61	34.77	-15.31
	23733	700.5	QI SK	12	6	21.37	18.59	20.74	34.77	-16.18
				25	0	21.31	18.53	20.68	34.77	-16.24
				1	0	22.12	19.34	21.49	34.77	-15.43
5	23790	710	OPSK	1	24	22.54	19.76	21.91	34.77	-15.01
Ü	20170	710	Qi Sik	12	6	21.37	18.59	20.74	34.77	-16.18
				25	0	21.34	18.56	20.71	34.77	-16.21
				1	0	22.41	19.63	21.78	34.77	-15.14
	23825	713.5	QPSK	1	24	22.35	19.57	21.72	34.77	-15.20
	20020	710.0	Qi Sik	12	6	21.35	18.57	20.72	34.77	-16.20
				25	0	21.35	18.57	20.72	34.77	-16.20
				1	0	20.75	17.97	20.12	34.77	-16.80
	23755	706.5	16OAM	1	24	20.69	17.91	20.06	34.77	-16.86
	20700	700.0	100 1111	12	6	20.22	17.44	19.59	34.77	-17.33
				25	0	20.24	17.46	19.61	34.77	-17.31
				1	0	20.98	18.20	20.35	34.77	-16.57
5	23790	710	16OAM	1	24	21.22	18.44	20.59	34.77	-16.33
J	20770	. 10	10001111	12	6	20.22	17.44	19.59	34.77	-17.33
				25	0	20.18	17.40	19.55	34.77	-17.37
				1	0	21.28	18.50	20.65	34.77	-16.27
	23825	713.5	16OAM	1	24	21.04	18.26	20.41	34.77	-16.51
	20020	710.0	1021111	12	6	20.25	17.47	19.62	34.77	-17.30
				25	0	20.28	17.50	19.65	34.77	-17.27

Antenna	gain (dBi)	-0.63								
			LTE Bar	nd 17_Up	link frequ	uency band : 70	14 to 716 MHz			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
				1	0	22.60	19.82	21.97	34.77	-14.95
	23780	709	OPSK	1	49	22.66	19.88	22.03	34.77	-14.89
	23700	707	QI SIK	25	12	21.39	18.61	20.76	34.77	-16.16
				50	0	21.43	18.65	20.80	34.77	-16.12
				1	0	22.28	19.50	21.65	34.77	-15.27
10	23790	710	OPSK	1	49	22.28	19.50	21.65	34.77	-15.27
10	20770	710	Qi Sik	25	12	21.41	18.63	20.78	34.77	-16.14
				50	0	21.40	18.62	20.77	34.77	-16.15
				1	0	22.53	19.75	21.90	34.77	-15.02
	23800	711	OPSK	1	49	22.45	19.67	21.82	34.77	-15.10
	20000	7.11	Qi Sik	25	12	21.38	18.60	20.75	34.77	-16.17
				50	0	21.34	18.56	20.71	34.77	-16.21
				1	0	21.48	18.70	20.85	34.77	-16.07
	23780	709	16OAM	1	15	21.20	18.42	20.57	34.77	-16.35
	23700	707	100/101	12	0	20.89	18.11	20.26	34.77	-16.66
				16	0	20.92	18.14	20.29	34.77	-16.63
				1	0	20.04	17.26	19.41	34.77	-17.51
10	23790	710	16OAM	1	15	20.15	17.37	19.52	34.77	-17.40
10	20770	710	100 1111	12	0	20.10	17.32	19.47	34.77	-17.45
				16	0	19.92	17.14	19.29	34.77	-17.63
				1	0	20.96	18.18	20.33	34.77	-16.59
	23800	711	16OAM	1	15	20.82	18.04	20.19	34.77	-16.73
	23000	/ / / /	100/101	12	0	20.68	17.90	20.05	34.77	-16.87
				16	0	20.59	17.81	19.96	34.77	-16.96

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Antenna	gain (dBi)	1.83							
		L	TE Band 66_Up	link frequ	uency ba	nd : 1710 to 178	80 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0 5	21.93 21.92	23.76 23.75	30 30	-6.24 -6.25
	131979	1710.7	QPSK	3	2	21.92	23.73	30	-6.27
i				6	0	20.84	22.67	30	-7.33
İ				1	0	21.76	23.59	30	-6.41
1.4	132322	1745	QPSK	1	5	21.84	23.67	30	-6.33
1.7	132322	1743	QI SIK	3	2	21.92	23.75	30	-6.25
				6	0	21.02	22.85	30	-7.15
				1	0	21.71	23.54	30	-6.46
	132665	1779.3	OPSK	1	5	21.70	23.53	30	-6.47
				3	2	21.71	23.54	30	-6.46
				6	0	20.57	22.40	30	-7.6
				1	0	20.66	22.49	30	-7.51
	131979	1710.7	16QAM	1	5	20.59	22.42	30	-7.58
				3	2	20.83	22.66	30	-7.34
				6	0	19.77	21.60	30	-8.4
				1	0 5	20.64	22.47 22.49	30	-7.53 -7.51
1.4	132322	1745	16QAM	3	2	20.66	22.49	30	-7.51
				6	0	20.50	22.33	30	-7.07
				1	0	20.01	22.04	30	-7.96
				1	5	20.21	22.11	30	-7.89
	132665	1779.3	16QAM	3	2	20.28	22.11	30	-7.89
				6	0	19.47	21.30	30	-8.7

Antenna	gain (dBi)	1.83							
		L	TE Band 66_Up	link freq	uency ba	nd : 1710 to 178	0 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	21.85	23.68	30	-6.32
	131987	1711.5	QPSK	1	14	21.64	23.47	30	-6.53
	131707	1711.5	QFSK	8	4	20.90	22.73	30	-7.27
				15	0	20.91	22.74	30	-7.26
				1	0	22.13	23.96	30	-6.04
3	132322	1745	QPSK	1	14	21.84	23.67	30	-6.33
J	132322	1743	QI SIX	8	4	21.08	22.91	30	-7.09
				15	0	21.06	22.89	30	-7.11
				1	0	21.72	23.55	30	-6.45
	132657	1778.5	QPSK	1	14	21.70	23.53	30	-6.47
	132037	1770.5	QI SIX	8	4	20.67	22.50	30	-7.5
				15	0	20.69	22.52	30	-7.48
				1	0	20.52	22.35	30	-7.65
	131987	1711.5	16OAM	1	14	20.85	22.68	30	-7.32
	131707	1711.5	TOQAM	8	4	19.66	21.49	30	-8.51
				15	0	19.78	21.61	30	-8.39
				1	0	21.03	22.86	30	-7.14
3	132322	1745	16OAM	1	14	21.00	22.83	30	-7.17
J	132322	1743	TOQAW	8	4	20.06	21.89	30	-8.11
				15	0	20.03	21.86	30	-8.14
				1	0	20.58	22.41	30	-7.59
	132657	1778.5	16OAM	1	14	20.33	22.16	30	-7.84
	102007	1770.5	IOQAW	8	4	19.53	21.36	30	-8.64
				15	0	19.44	21.27	30	-8.73

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**SCSTaiwan Info
**No.134/Wk Wing Road New Tairies Industrial Park Winky District New Tairiet New T



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		L	TE Band 66_Up	link frequ	uency ba	nd : 1710 to 178	80 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	21.72	23.55	30	-6.45
	131997	1712.5	QPSK	1	24	22.06	23.89	30	-6.11
	131771	1712.3	QI SK	12	6	20.96	22.79	30	-7.21
				25	0	21.08	22.91	30	-7.09
				1	0	22.19	24.02	30	-5.98
5	132322	1745	OPSK	1	24	21.87	23.70	30	-6.3
J	132322	1743	QI SK	12	6	21.04	22.87	30	-7.13
				25	0	21.11	22.94	30	-7.06
				1	0	21.89	23.72	30	-6.28
	132647	1777.5	QPSK	1	24	21.47	23.30	30	-6.7
	132047	1777.5	QF3K	12	6	20.61	22.44	30	-7.56
				25	0	20.57	22.40	30	-7.6
				1	0	20.73	22.56	30	-7.44
	131997	1712.5	16OAM	1	24	20.68	22.51	30	-7.49
	131771	1712.3	TOQAM	12	6	20.04	21.87	30	-8.13
				25	0	19.99	21.82	30	-8.18
				1	0	20.84	22.67	30	-7.33
5	132322	1745	16OAM	1	24	20.34	22.17	30	-7.83
J	132322	1740	TOQAM	12	6	19.95	21.78	30	-8.22
				25	0	20.32	22.15	30	-7.85
				1	0	20.27	22.10	30	-7.9
	132647	1777.5	16OAM	1	24	20.20	22.03	30	-7.97
	132047	1777.5	TOQAM	12	6	19.47	21.30	30	-8.7
				25	0	19.60	21.43	30	-8.57

Antenna	gain (dBi)	1.83							
		L	TE Band 66_Up	link freq	uency ba	nd : 1710 to 178	0 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	21.84	23.67	30	-6.33
	132022	1715	QPSK	1	49	22.13	23.96	30	-6.04
	132022	1713	QI SK	25	12	20.99	22.82	30	-7.18
				50	0	20.97	22.80	30	-7.2
				1	0	21.91	23.74	30	-6.26
10	132322	1745	QPSK	1	49	22.55	24.38	30	-5.62
10	132322	1743	QI SK	25	12	21.14	22.97	30	-7.03
				50	0	21.18	23.01	30	-6.99
				1	0	20.49	22.32	30	-7.68
	132622	1775	OPSK	1	49	21.76	23.59	30	-6.41
	132022	1773	QI SK	25	12	20.67	22.50	30	-7.5
				50	0	20.66	22.49	30	-7.51
				1	0	20.95	22.78	30	-7.22
	132022	1715	16QAM	1	15	20.67	22.50	30	-7.5
	132022	1713	TOQAIVI	12	0	20.73	22.56	30	-7.44
				16	0	20.53	22.36	30	-7.64
				1	0	21.37	23.20	30	-6.8
10	132322	1745	16QAM	1	15	20.81	22.64	30	-7.36
10	132322	1740	TOUAIVI	12	0	20.69	22.52	30	-7.48
				16	0	20.73	22.56	30	-7.44
				1	0	20.93	22.76	30	-7.24
	132622	1775	16QAM	1	15	20.88	22.71	30	-7.29
	132022	1775	TOUAIVI	12	0	20.72	22.55	30	-7.45
				16	0	20.69	22.52	30	-7.48

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Antenna	gain (dBi)	1.83							
		L	TE Band 66_Up	link frequ	uency ba	nd : 1710 to 178	80 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
	132047	1717.5	QPSK	1 1 36	0 74 18	21.86 22.24 21.08	23.69 24.07 22.91	30 30 30	-6.31 -5.93 -7.09
				75	0	20.78	22.61 24.11	30 30	-7.39 -5.89
15	132322	1745	QPSK	1 36 75	74 18 0	22.69 21.14 21.20	24.52 22.97 23.03	30 30 30 30	-5.48 -7.03 -6.97
	132597	1772.5	QPSK	1 1 36 75	0 74 18	22.10 21.65 20.72 20.66	23.48 22.55 22.49	30 30 30 30	-6.07 -6.52 -7.45
	132047	1717.5	16QAM	1 1 1 16	0 15 0	20.85 20.73 20.61	22.68 22.56 22.44	30 30 30	-7.32 -7.44 -7.56
15	132322	1745	16QAM	1 1 16	0 15 0	20.92 20.70 20.71	22.75 22.53 22.54	30 30 30	-7.25 -7.47 -7.46
	132597	1772.5	16QAM	1 1 16	0 15 0	20.82 20.70 20.57	22.65 22.53 22.40	30 30 30	-7.35 -7.47 -7.6

Antenna	gain (dBi)	1.83							
		L	TE Band 66_Up	link frequ	uency ba	nd : 1710 to 178	0 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	21.98	23.81	30	-6.19
	132072	1720	QPSK	1	99	21.93	23.76	30	-6.24
	102072	1720	QI SIX	50	25	21.05	22.88	30	-7.12
				100	0	20.97	22.80	30	-7.2
				1	0	22.14	23.97	30	-6.03
20	132322	1745	QPSK	1	99	22.33	24.16	30	-5.84
	102022	1710	QI SIX	50	25	21.07	22.90	30	-7.1
				100	0	21.18	23.01	30	-6.99
				1	0	22.16	23.99	30	-6.01
	132572	1770	QPSK	1	99	21.57	23.40	30	-6.6
				100	0	19.99	21.82	30	-8.18
				1	0	20.75	22.58	30	-7.42
	132072	1720	16QAM	1	17	20.63	22.46	30	-7.54
				18	0	20.45	22.28	30	-7.72
				1	0	21.14	22.97	30	-7.03
20	132322	1745	16QAM	1	17	20.81	22.64	30	-7.36
				18	0	20.60	22.43	30	-7.57
				1	0	20.85	22.68	30	-7.32
	132572	1770	16QAM	1	17	20.62	22.45	30	-7.55
				18	0	20.45	22.28	30	-7.72

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CSTainsaction **Description** *



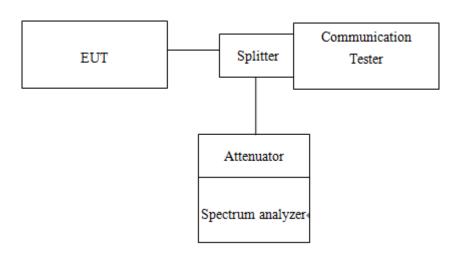
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OCCUPIED BANDWIDTH MEASUREMENT

7.1 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.

7.2 **Test Set-up**



7.3 **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%.

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7.4 Measurement Equipment Used

	Conducted Emission Test Site: Conducted B									
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.					
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/13/2021	07/12/2022					
Radio Communica- tion Analyer	Anritsu	MT8820C	6201107337	07/28/2021	07/27/2022					
Attenuator	Marvelous	MVE2213-10	RF05	11/19/2020	11/18/2021					
DC Block	PASTER- NACK	PE8210	RF157	11/19/2020	11/18/2021					
Splitter	Woken	DOM35LW1A2	RF255	11/19/2020	11/18/2021					
Coaxial Cables	Woken	00100A1F1A185C	RF54	11/19/2020	11/18/2021					
Coaxial Cables	Woken	00100A1F1A185C	RF55	11/19/2020	11/18/2021					
Coaxial Cables	Woken	00100A1F1A185C	RF71	11/19/2020	11/18/2021					
Coaxial Cables	Woken	00100A1F1A185C	RF72	11/19/2020	11/18/2021					
DC Power Supply	Agilent	E3640A	MY53140006	05/28/2021	05/27/2022					
Temperature Chamber	TERCHY	MHK-120LK	1020582	07/01/2021	06/30/2022					
Test Software	SGS	Radio Test Software	Ver.21	N.C.R	N.C.R					

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7.5 **Measurement Result**

LTE BAND 2 Channel bandwidth: 1.4MHz								
Freq.	CH	99% BV	V (MHz)	26 dB B	W (MHz)			
(MHz)	СГ	QPSK	16QAM	QPSK	16QAM			
1850.7	18607	1.0899	1.0897	1.269	1.292			
1880.0	18900	1.0887	1.0893	1.263	1.290			
1909.3	19193	1.0876	1.0884	1.264	1.287			

LTE BAND 2 Channel bandwidth: 5MHz							
Freq.	CH	99% BV	V (MHz)	26 dB B	W (MHz)		
(MHz)	CH	QPSK	16QAM	QPSK	16QAM		
1852.5	18625	4.4900	4.4944	4.946	5.011		
1880.0	18900	4.4990	4.4945	5.020	5.024		
1907.5	19175	4.5078	4.4873	5.048	5.009		

LTE BAND 2 Channel bandwidth: 15MHz						
Freq.	req. CH 99% BW (MHz)		V (MHz)	26 dB B	W (MHz)	
(MHz)	CH	QPSK	16QAM	QPSK	16QAM	
1857.5	18675	13.329	3.227	14.36	4.60	
1880.0	18900	13.445	3.210	14.52	4.27	
1902.5	19125	13.369	3.179	14.48	4.57	
	LTE BAND) 4 Channe	l bandwidt	h: 1.4MHz		
Freq.	CH	99% BV	V (MHz)	26 dB B	W (MHz)	
(MHz)	CH	QPSK	16QAM	QPSK	16QAM	
1710.7	19957	1.0907	1.0884	1.274	1.281	
1732.5	20175	1.0892	1.0857	1.299	1.279	
1754.3	20393	1.0899	1.0876	1.285	1.284	

LTE BAND 4 Channel bandwidth: 5MHz								
Freq.	CH	99% BV	V (MHz)	26 dB B	W (MHz)			
(MHz)	CH	QPSK	16QAM	QPSK	16QAM			
1712.5	19975	4.5000	4.4925	5.010	5.017			
1732.5	20175	4.5062	4.4866	4.984	4.996			
1752.5	20375	4.5010	4.4938	4.980	4.999			

LTE BAND 4 Channel bandwidth: 15MHz							
Freq.	CH	99% BV	V (MHz)	26 dB B	W (MHz)		
(MHz)	CH	QPSK	16QAM	QPSK	16QAM		
1717.5	20025	13.357	3.216	14.41	4.57		
1732.5	20175	13.405	3.165	14.55	4.33		
1747.5	20325	13.438	3.176	14.55	4.35		

LTE BAND 2 Channel bandwidth: 3MHz								
Freq.	CH	99% BV	V (MHz)	26 dB B	W (MHz)			
(MHz)	СП	QPSK	16QAM	QPSK	16QAM			
1851.5	18615	2.6930	2.6878	2.934	2.962			
1880.0	18900	2.6868	2.6922	2.939	2.964			
1908.5	19185	2.6932	2.6918	2.947	2.946			

LTE BAND 2 Channel bandwidth: 10MHz							
Freq.	СН	99% BV	V (MHz)	26 dB B	W (MHz)		
(MHz)	СП	QPSK	16QAM	QPSK	16QAM		
1855.0	18650	8.9385	3.0906	9.774	4.124		
1880.0	18900	8.9822	3.0623	9.865	4.005		
1905.0	19150	8.9831	3.0531	9.924	4.103		

LTE BAND 2 Channel bandwidth: 20MHz							
Freq.	Freq. CH		V (MHz)	26 dB B	W (MHz)		
(MHz)	CH	QPSK	16QAM	QPSK	16QAM		
1860.0	18700	17.714	3.775	18.97	5.26		
1880.0	18900	17.940	3.740	19.51	5.15		
1900.0	19100	17.684	3.745	19.10	5.26		
LTE BAND 4 Channel bandwidth: 3MHz							
	LTE BAN	D 4 Chann	el bandwid	Ith: 3MHz			
Freq.		D 4 Chann 99% BV			W (MHz)		
Freq. (MHz)	CH				W (MHz)		
'		99% BV	V (MHz)	26 dB B	, ,		
(MHz)	СН	99% BV QPSK	V (MHz) 16QAM	26 dB B QPSK	16QAM		

LTE BAND 4 Channel bandwidth: 10MHz								
Freq.	СН	99% BV	V (MHz)	26 dB B	W (MHz)			
(MHz)	CH	QPSK	16QAM	QPSK	16QAM			
1715.0	20000	8.9608	3.0635	9.809	4.053			
1732.5	20175	8.9578	3.0463	9.850	3.766			
1750.0	20350	8.9784	3.0519	9.878	4.131			

LTE BAND 4 Channel bandwidth: 20MHz								
Freq.	СН	99% BV	V (MHz)	26 dB B'	W (MHz)			
(MHz)	CH	QPSK	16QAM	QPSK	16QAM			
1720.0	20050	17.771	3.773	19.04	5.43			
1732.5	20175	17.870	3.705	19.19	5.22			
1745.0	20300	17.906	3.777	19.31	5.34			

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LTE BAND 12 Channel bandwidth: 1.4MHz							
Freq.	CH	99% BV	V (MHz)	26 dB B	W (MHz)		
(MHz)	CH	QPSK	16QAM	QPSK	16QAM		
699.7	23017	1.0905	1.0856	1.270	1.264		
707.5	23095	1.0896	1.0887	1.274	1.255		
715.3	23173	1.0905	1.0873	1.266	1.271		

LTE BAND 12 Channel bandwidth: 5MHz						
Freq.	CH	99% BW (MHz)		26 dB BW (MHz)		
(MHz)	(MHz)	QPSK	16QAM	QPSK	16QAM	
701.5	23035	4.4925	4.4924	4.984	4.968	
707.5	23095	4.4955	4.4845	4.984	4.948	
713.5	23155	4.4967	4.4842	4.970	4.946	

LTE BAND 17 Channel bandwidth: 5MHz							
Freq.	CH	99% BW (MHz)		26 dB BW (MHz)			
(MHz)	CH	QPSK	16QAM	QPSK	16QAM		
706.5	23755	4.4889	4.4856	4.955	4.904		
710.0	23790	4.4938	4.4941	4.994	4.986		
713.5	23825	4.4999	4.4877	4.956	4.936		

LTE BAND 66 Channel bandwidth: 1.4MHz							
Freq.	СН	99% BW (MHz)		26 dB BW (MHz)			
(MHz)		QPSK	16QAM	QPSK	16QAM		
1710.7	131979	1.0893	1.0875	1.280	1.258		
1745.0	132322	1.0901	1.0902	1.291	1.263		
1779.3	132665	1.0905	1.0900	1.287	1.270		

LTE BAND 66 Channel bandwidth: 5MHz							
Freq.	СН	99% BW (MHz)		26 dB BW (MHz)			
(MHz)		QPSK	16QAM	QPSK	16QAM		
1712.5	131997	4.5034	4.4868	4.988	4.964		
1745.0	132322	4.4951	4.4931	4.995	4.993		
1777.5	132647	4.4992	4.4910	4.960	4.975		

LTE BAND 66 Channel bandwidth: 15MHz						
Freq.	CH	99% BW (MHz)		26 dB BW (MHz)		
(MHz)	CH	QPSK	16QAM	QPSK	16QAM	
1717.5	132047	13.371	3.160	14.39	4.07	
1745.0	132322	13.431	3.183	14.57	4.14	
1772.5	132597	13.342	3.163	14.39	4.12	

LTE BAND 12 Channel bandwidth: 3MHz						
Freq.	99% BW (MHz)		26 dB BW (MHz)			
(MHz)	CH	QPSK	16QAM	QPSK	16QAM	
700.5	23025	2.6892	2.6907	2.952	2.969	
707.5	23095	2.6907	2.6924	2.951	2.956	
714.5	23165	2.6874	2.6898	2.950	2.962	

LTE BAND 12 Channel bandwidth: 10MHz							
Freq.			99% BW (MHz)		26 dB BW (MHz)		
(MHz)	CH	QPSK	16QAM	QPSK	16QAM		
704.0	23060	8.9509	3.0318	9.770	3.775		
707.5	23095	8.9631	3.0185	9.801	3.691		
711.0	23130	8.9803	3.0436	9.879	3.705		

LTE BAND 17 Channel bandwidth: 10MHz						
Freq. CH	99% BW (MHz)		26 dB BW (MHz)			
(MHz)	CH	QPSK	16QAM	QPSK	16QAM	
709.0	23780	8.9892	3.0396	9.819	3.732	
710.0	23790	8.9733	3.0291	9.871	3.762	
711.0	23800	8.9907	3.0273	9.874	3.755	

LTE BAND 66 Channel bandwidth: 3MHz							
Freq.	СН	99% BW (MHz)		26 dB BW (MHz)			
(MHz)		QPSK	16QAM	QPSK	16QAM		
1711.5	131987	2.6904	2.6916	2.949	2.965		
1745.0	132322	2.6962	2.6935	2.949	2.963		
1778.5	132657	2.6945	2.6917	2.942	2.958		

LTE BAND 66 Channel bandwidth: 10MHz						
Freq. CH	99% BW (MHz)		26 dB BW (MHz)			
(MHz)	CH	QPSK	16QAM	QPSK	16QAM	
1715.0	132022	8.9573	3.0322	9.735	3.700	
1745.0	132322	8.9544	3.0322	9.861	3.715	
1775.0	132622	8.9558	3.0184	9.773	3.793	

	LTE BAND 66 Channel bandwidth: 20MHz						
Ī	Freq.	СН	99% BV	V (MHz)	26 dB B'	W (MHz)	
	(MHz)		QPSK	16QAM	QPSK	16QAM	
	1720.0	132072	17.778	3.690	19.07	4.74	
Ī	1745.0	132322	17.885	3.737	19.35	5.32	
ĺ	1770.0	132572	17.767	3.672	19.09	4.92	

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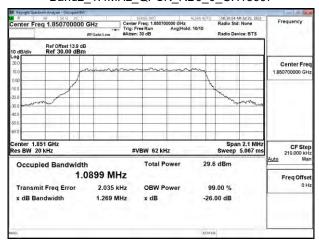
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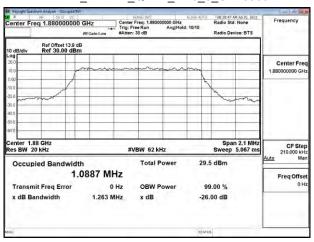


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Band2 1.4MHz QPSK RB6 0 CH18607



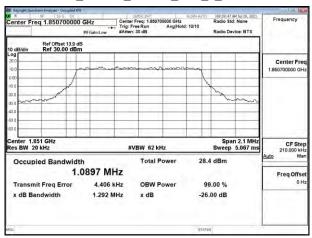
Band2 1.4MHz QPSK RB6 0 CH18900



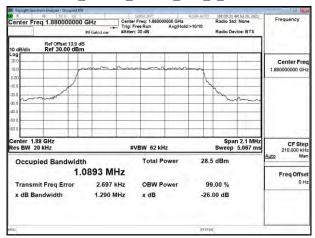
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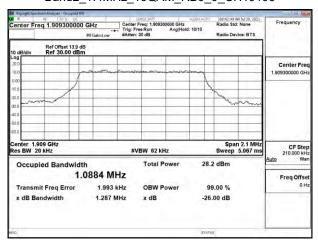
Band2_1.4MHz_16QAM_RB6_0_CH18607



Band2 1.4MHz 16QAM RB6 0 CH18900



Band2_1.4MHz_16QAM_RB6_0_CH19193



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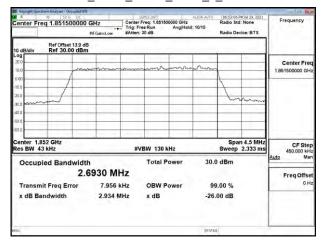
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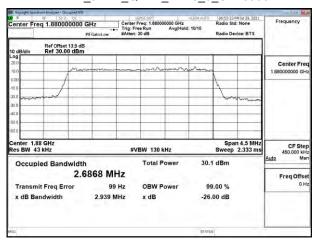


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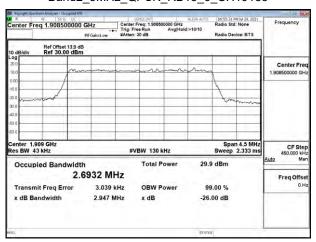
Band2_3MHz_QPSK_RB15_0_CH18615



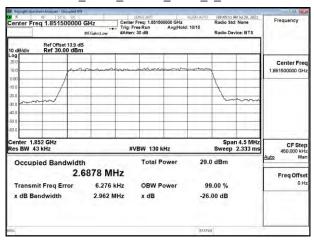
Band2 3MHz QPSK RB15 0 CH18900



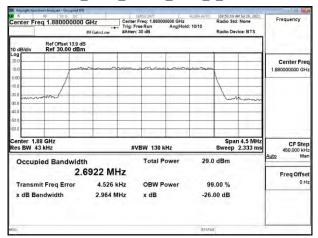
Band2 3MHz QPSK RB15 0 CH19185



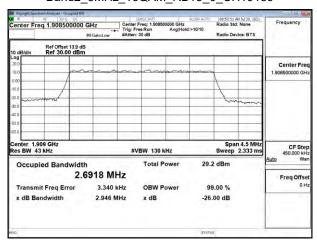
Band2_3MHz_16QAM_RB15_0_CH18615



Band2 3MHz 16QAM RB15 0 CH18900



Band2_3MHz_16QAM_RB15_0_CH19185



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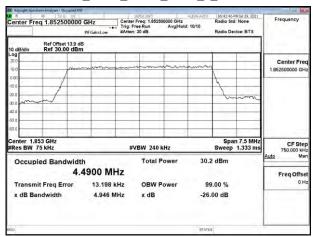
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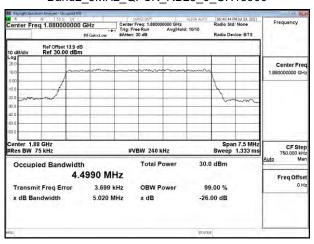


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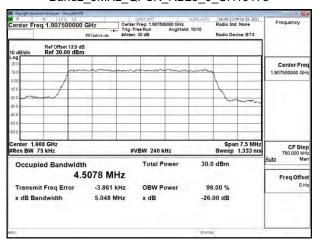
Band2_5MHz_QPSK_RB25_0_CH18625



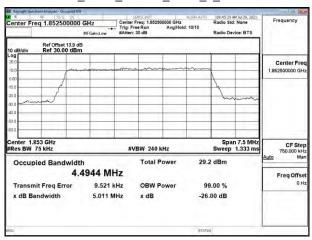
Band2 5MHz QPSK RB25 0 CH18900



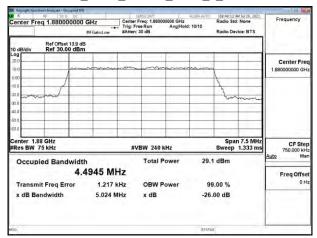
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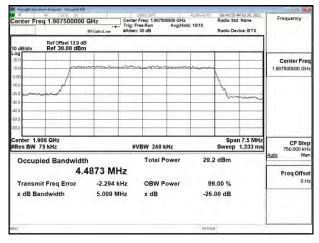
Band2 5MHz 16QAM RB25 0 CH18625



Band2 5MHz 16QAM RB25 0 CH18900



Band2_5MHz_16QAM_RB25_0_CH19175



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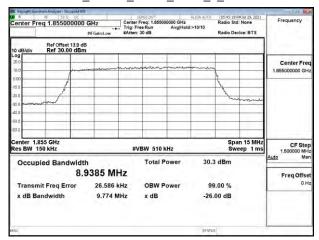
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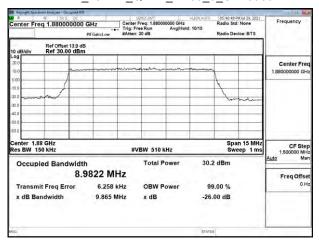


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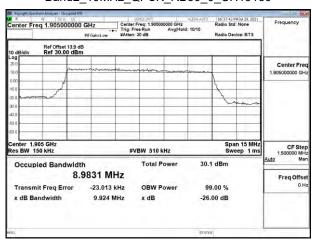
Band2_10MHz_QPSK_RB50_0_CH18650



Band2 10MHz QPSK RB50 0 CH18900



Band2 10MHz QPSK RB50 0 CH19150



Band2_10MHz_16QAM_RB16_0_CH18650



Band2 10MHz 16QAM RB16 0 CH18900



Band2_10MHz_16QAM_RB16_0_CH19150



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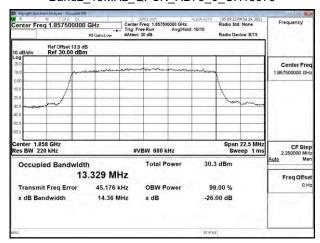
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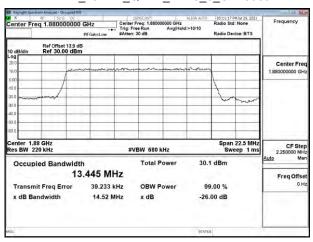


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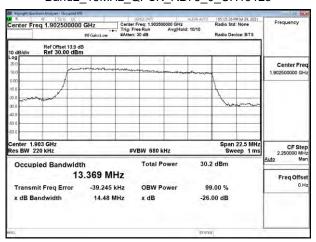
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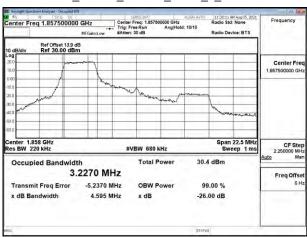
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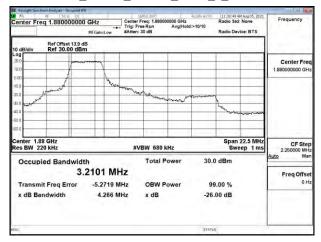
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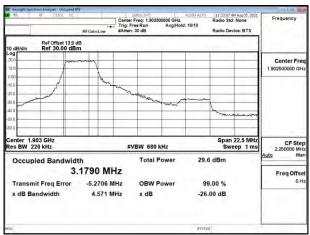
Band2_15MHz_16QAM_RB16_0_CH18675



Band2 15MHz 16QAM RB16 0 CH18900



Band2_15MHz_16QAM_RB16_0_CH19125



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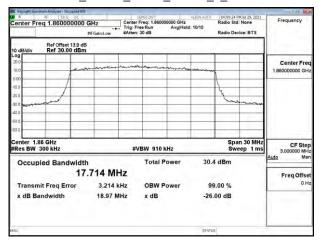
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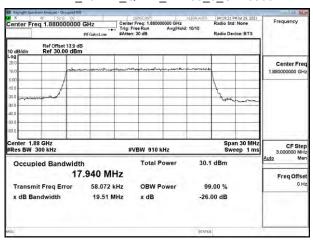


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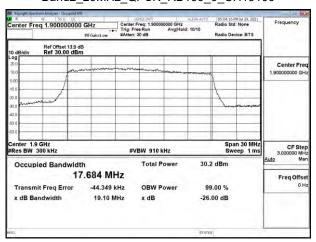
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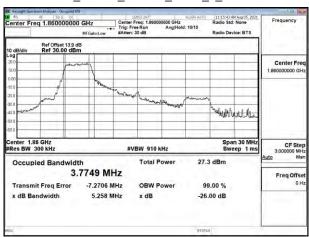
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Band2 20MHz QPSK RB100 0 CH19100



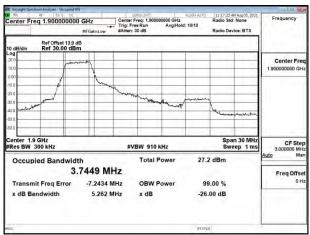
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Band2 20MHz 16QAM RB18 0 CH18900



Band2_20MHz_16QAM_RB18_0_CH19100



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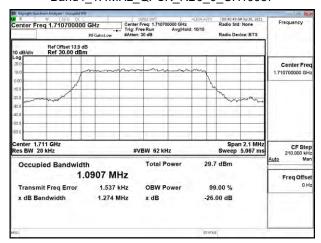
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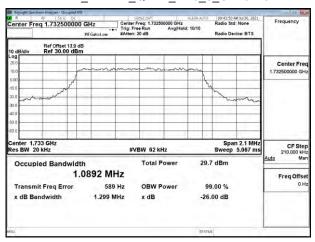


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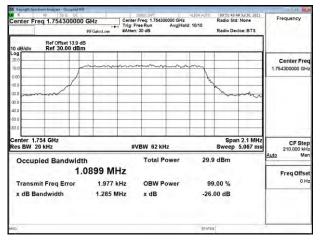
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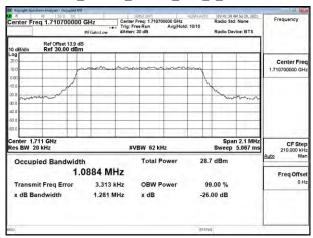
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Band4_1.4MHz_QPSK_RB6_0_CH20393



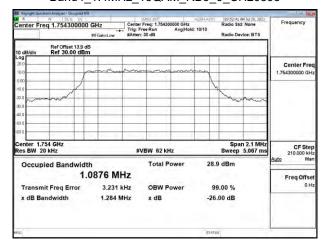
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Band4 1.4MHz 16QAM RB6 0 CH20175



Band4_1.4MHz_16QAM_RB6_0_CH20393



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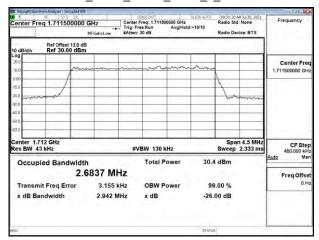
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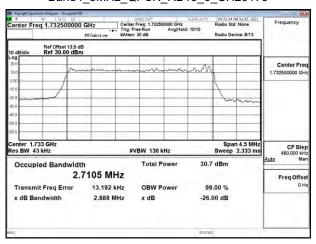


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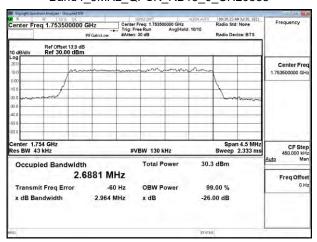
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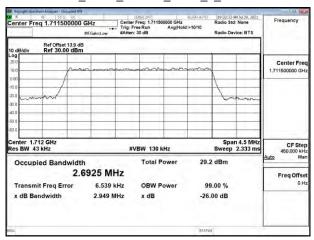
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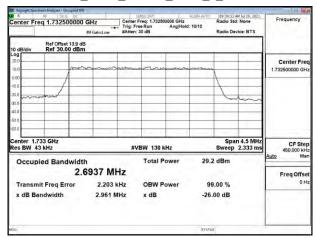
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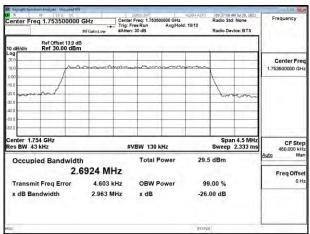
Band4_3MHz_16QAM_RB15_0_CH19965



Band4 3MHz 16QAM RB15 0 CH20175



Band4_3MHz_16QAM_RB15_0_CH20385



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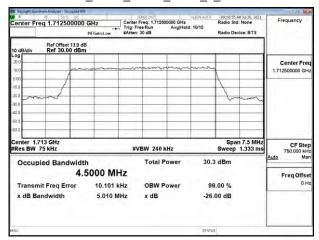
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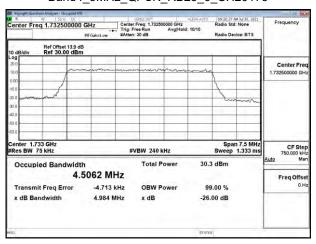


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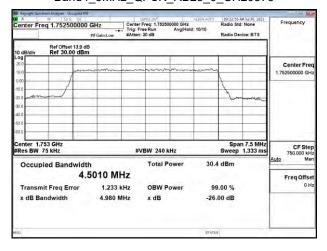
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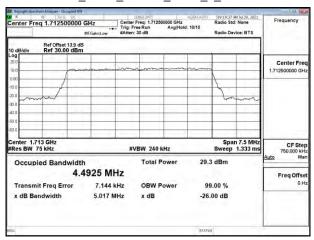
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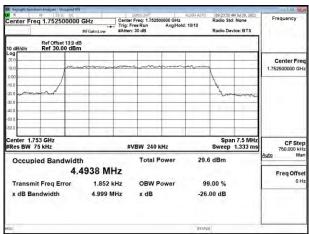
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Band4 5MHz 16QAM RB25 0 CH20175



Band4_5MHz_16QAM_RB25_0_CH20375



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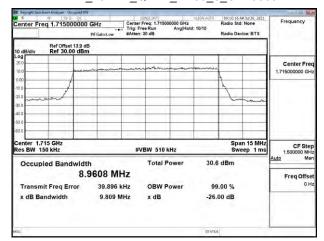
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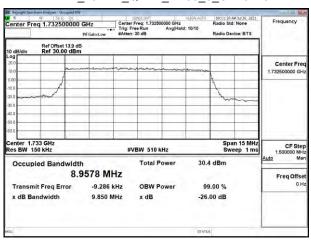


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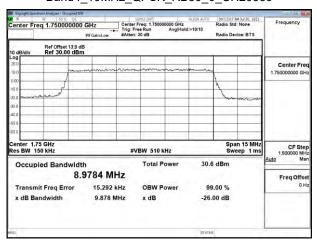
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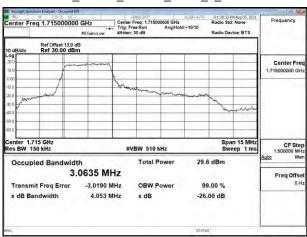
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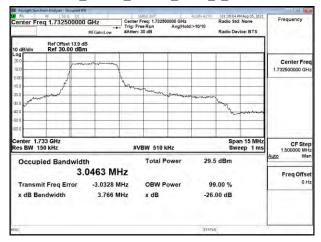
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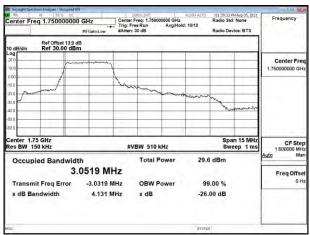
Band4_10MHz_16QAM_RB16_0_CH20000



Band4 10MHz 16QAM RB16 0 CH20175



Band4_10MHz_16QAM_RB16_0_CH20350



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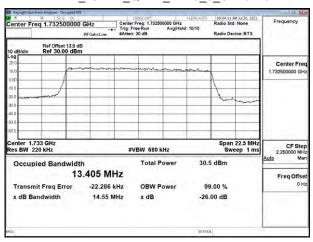


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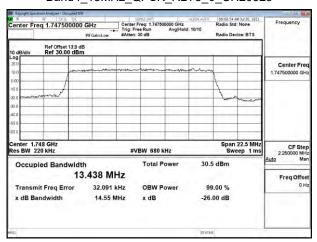
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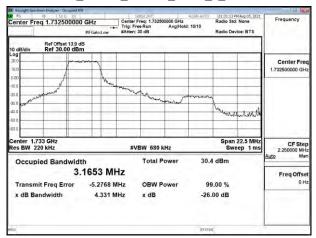
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Band4_15MHz_16QAM_RB16_0_CH20025



Band4 15MHz 16QAM RB16 0 CH20175



Band4_15MHz_16QAM_RB16_0_CH20325



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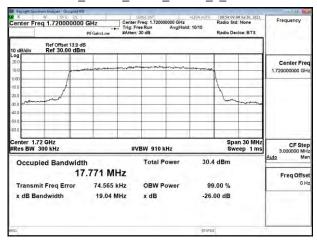
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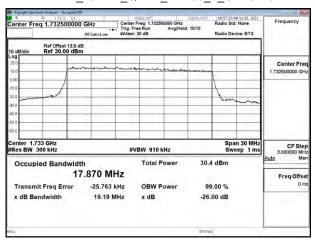


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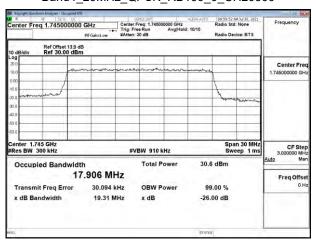
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Band4 20MHz QPSK RB100 0 CH20175



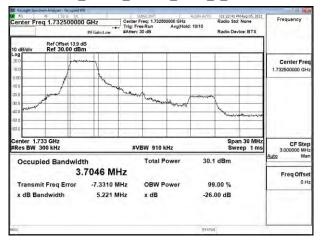
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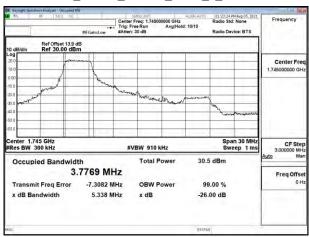
Band4 20MHz 16QAM RB18 0 CH20050



Band4 20MHz 16QAM RB18 0 CH20175



Band4_20MHz_16QAM_RB18_0_CH20300



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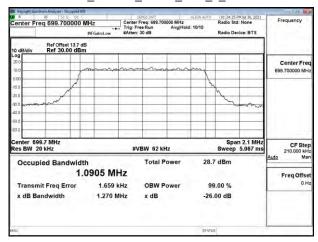
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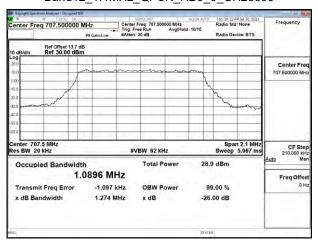


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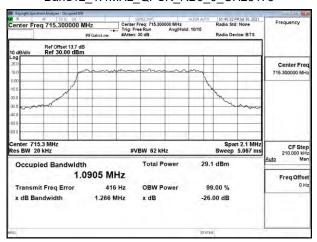
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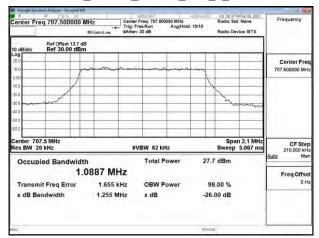
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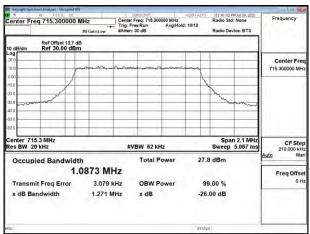
Band12_1.4MHz_16QAM_RB6_0_CH23017



Band12 1.4MHz 16QAM RB6 0 CH23095



Band12 1.4MHz 16QAM RB6 0 CH23173



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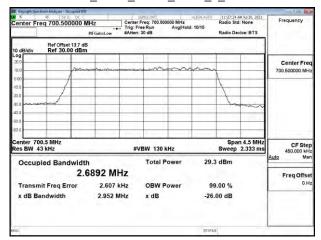
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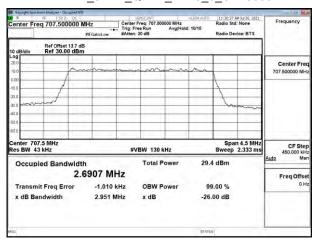


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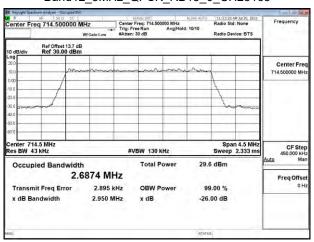
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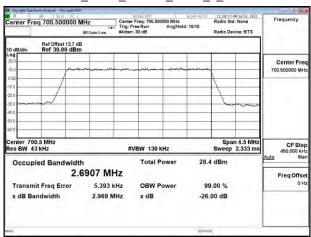
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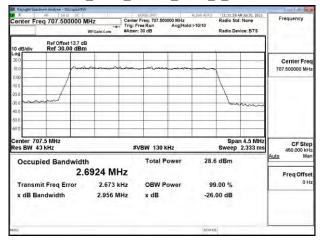
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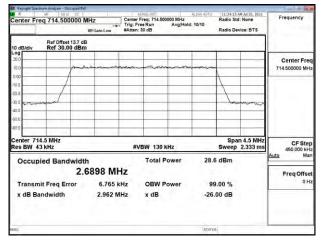
Band12 3MHz 16QAM RB15 0 CH23025



Band12 3MHz 16QAM RB15 0 CH23095



Band12 3MHz 16QAM RB15 0 CH23165



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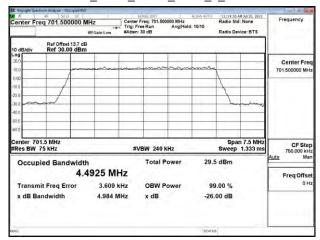
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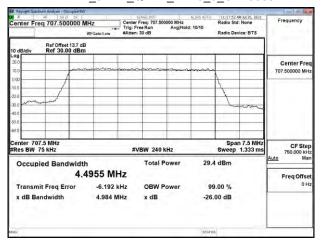


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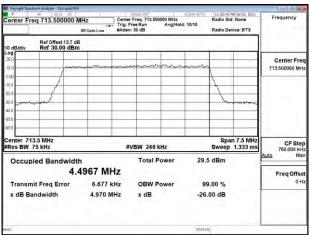
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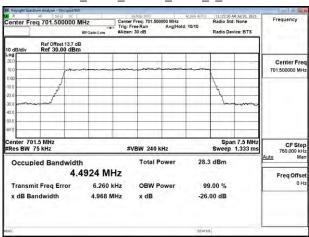
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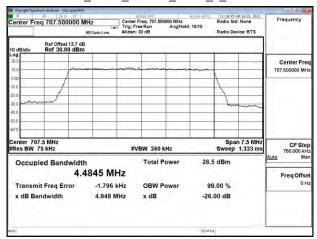
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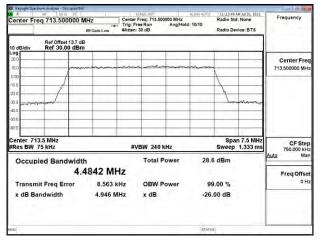
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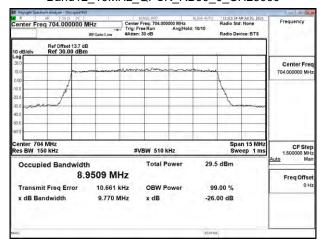
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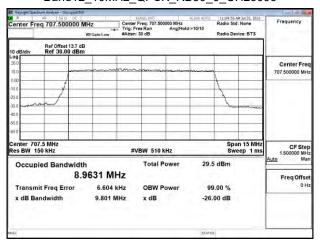


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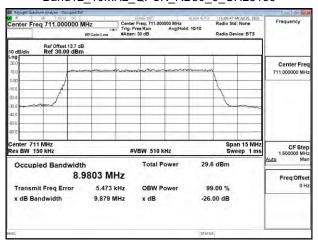
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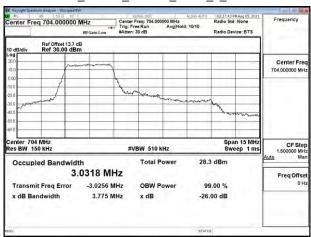
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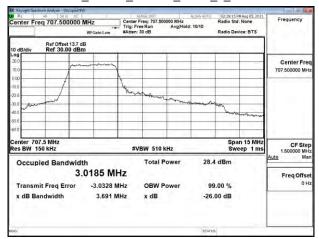
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Band12 10MHz 16QAM RB16 0 CH23095



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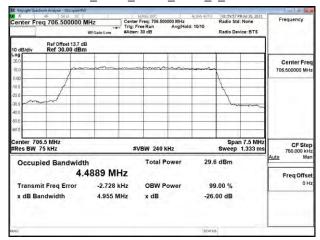
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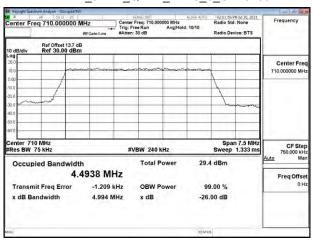


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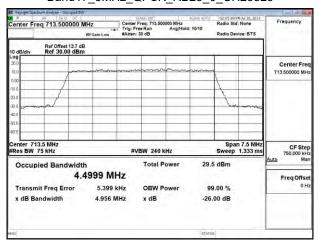
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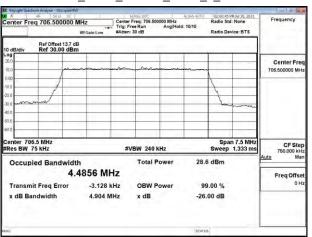
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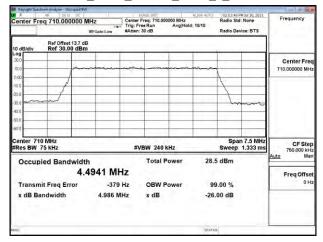
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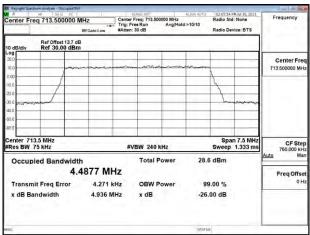
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Band17 5MHz 16QAM RB25 0 CH23790



Band17 5MHz 16QAM RB25 0 CH23825



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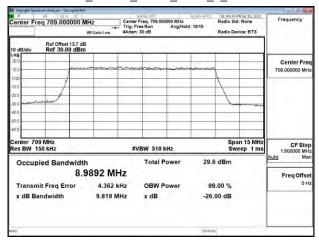
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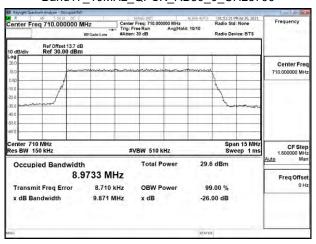


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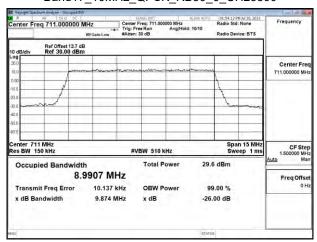
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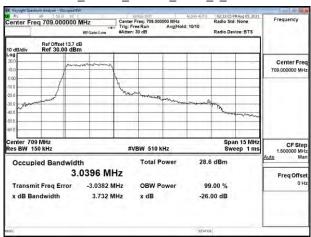
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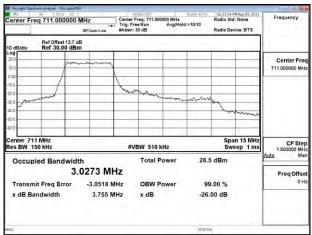
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Band17 10MHz 16QAM RB16 0 CH23790



Band17 10MHz 16QAM RB16 0 CH23800



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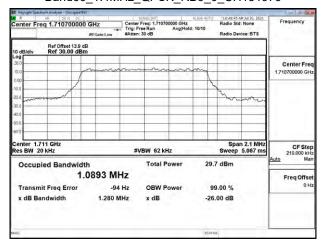
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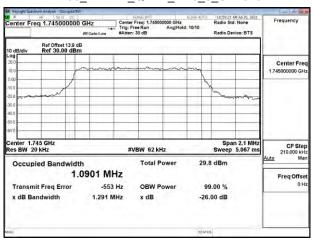


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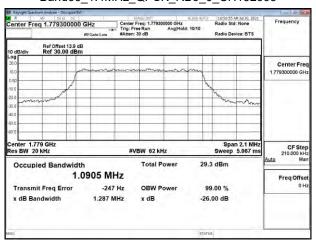
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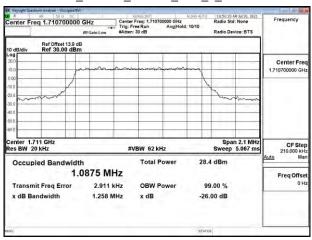
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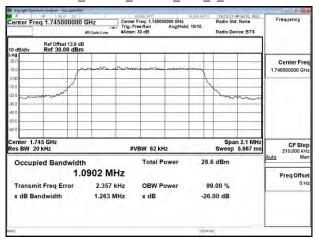
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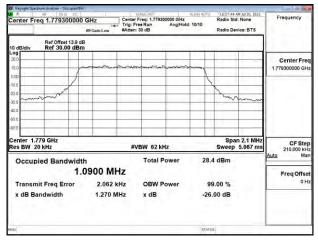
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Band66 1.4MHz 16QAM RB6 0 CH132322



Band66_1.4MHz_16QAM_RB6_0_CH132665



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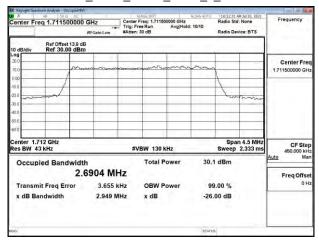
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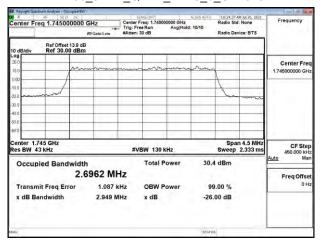


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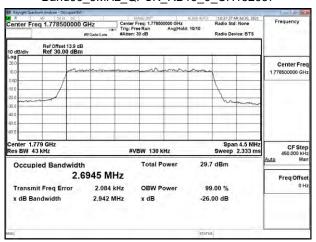
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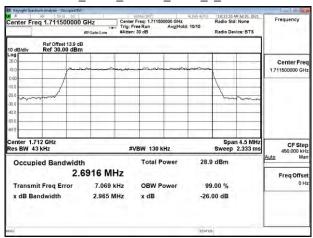
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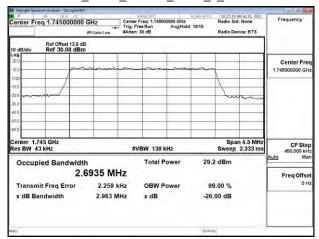
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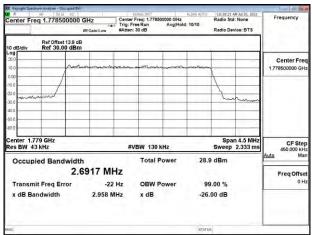
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Band66 3MHz 16QAM RB15 0 CH132322



Band66_3MHz_16QAM_RB15_0_CH132657



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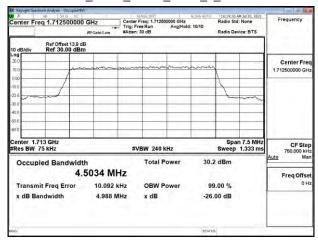
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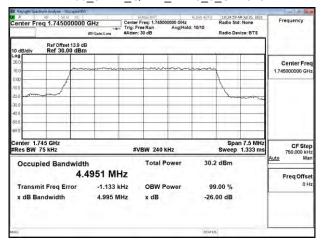


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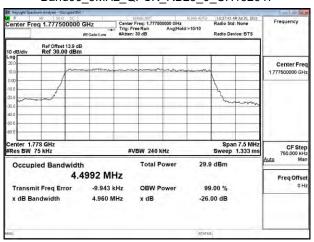
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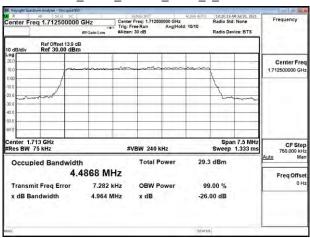
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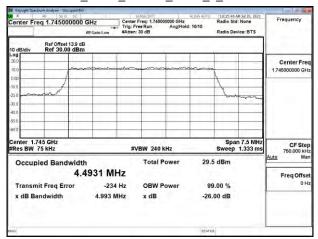
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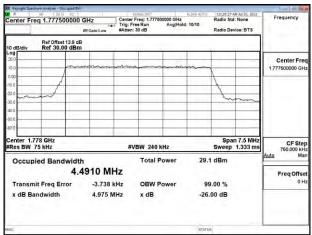
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Band66 5MHz 16QAM RB25 0 CH132647



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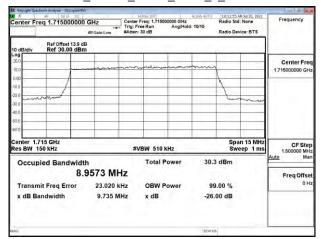
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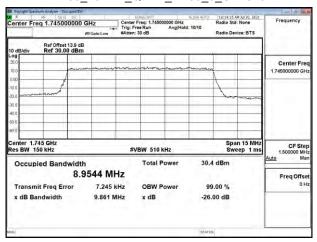


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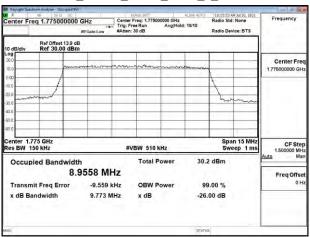
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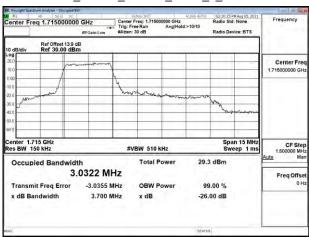
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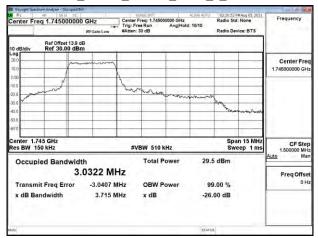
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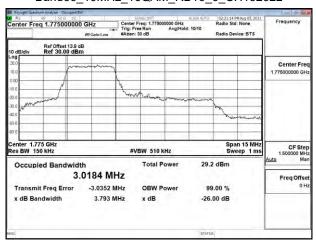
Band66 10MHz 16QAM RB16 0 CH132022



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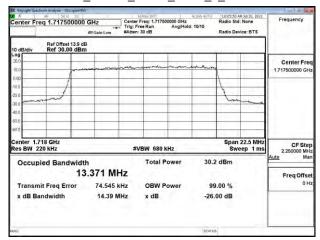
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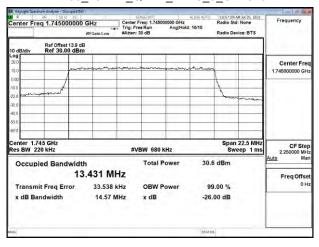


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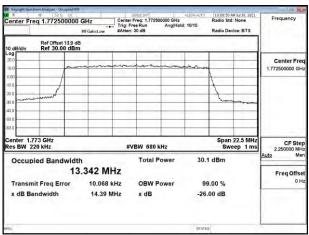
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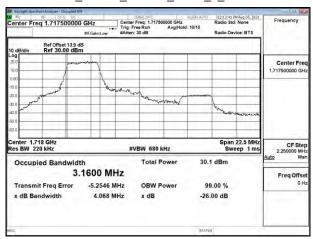
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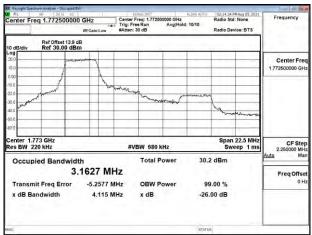
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Band66 15MHz 16QAM RB16 0 CH132322



Band66_15MHz_16QAM_RB16_0_CH132597



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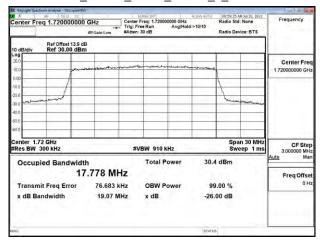
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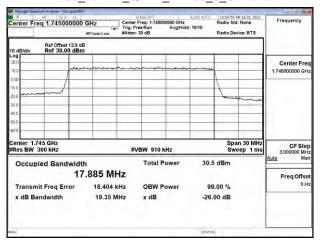


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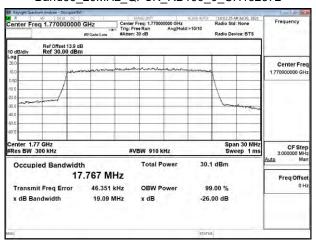
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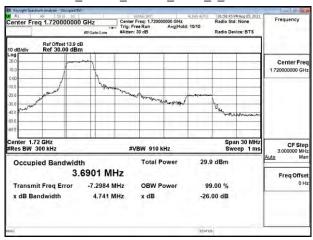
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Band66 20MHz QPSK RB100 0 CH132572



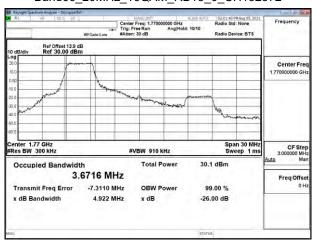
Band66 20MHz 16QAM RB18 0 CH132072



Band66 20MHz 16QAM RB18 0 CH132322



Band66_20MHz_16QAM_RB18_0_CH132572



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8 OUT OF BAND EMISSION AT ANTENNA TERMINALS

8.1 Standard Applicable

FCC §24.238(a), §27.53(h)

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(g)

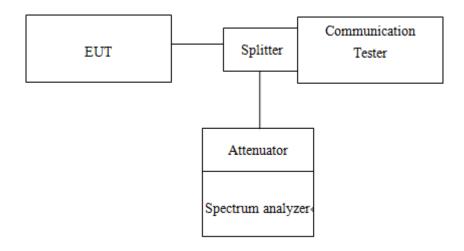
Compliance for operations in the 600 MHz, 698-746 MHz, 746-758 MHz and the 776-788 MHz band with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

- (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

FCC §27.53(h)(1)

(h) AWS emission limits—(1) General protection levels. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}$ (P) dB.

8.2 Test SET-UP



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8.3 **Measurement Procedure**

8.3.1 **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.

8.3.2 **Band Edge**

- 1. 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.

8.4 **Measurement Equipment Used**

Conducted Emission Test Site: Conducted B					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/13/2021	07/12/2022
Radio Communica- tion Analyer	Anritsu	MT8820C	6201107337	07/28/2021	07/27/2022
Attenuator	Marvelous	MVE2213-10	RF05	11/19/2020	11/18/2021
DC Block	PASTER- NACK	PE8210	RF157	11/19/2020	11/18/2021
Splitter	Woken	DOM35LW1A2	RF255	11/19/2020	11/18/2021
Coaxial Cables	Woken	00100A1F1A185C	RF54	11/19/2020	11/18/2021
Coaxial Cables	Woken	00100A1F1A185C	RF55	11/19/2020	11/18/2021
Coaxial Cables	Woken	00100A1F1A185C	RF71	11/19/2020	11/18/2021
Coaxial Cables	Woken	00100A1F1A185C	RF72	11/19/2020	11/18/2021
DC Power Supply	Agilent	E3640A	MY53140006	05/28/2021	05/27/2022
Temperature Chamber	TERCHY	MHK-120LK	1020582	07/01/2021	06/30/2022
Test Software	SGS	Radio Test Software	Ver.21	N.C.R	N.C.R

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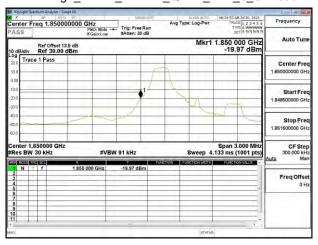


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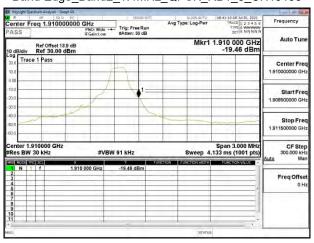
8.5 **Measurement Result:**

Band Edge

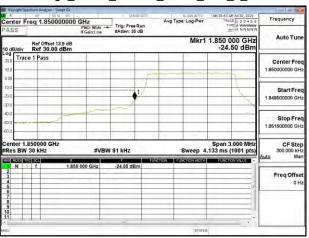
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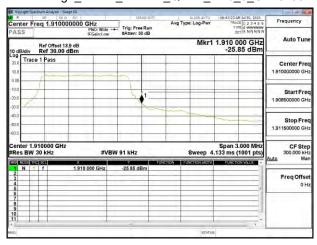
Band Edge Band2 1.4MHz QPSK RB1 5 CH19193



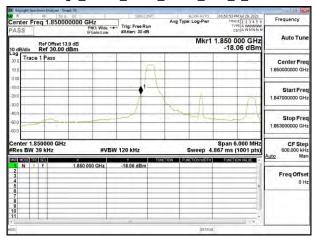
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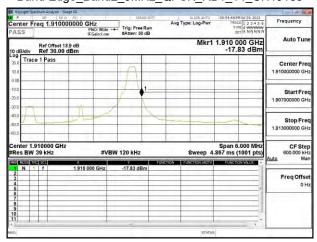
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Band Edge Band2 3MHz QPSK RB1 0 CH18615



Band Edge Band2 3MHz QPSK RB1 14 CH19185



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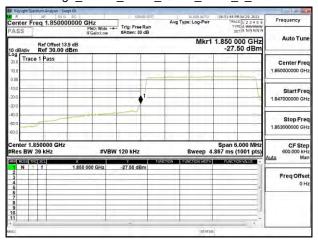
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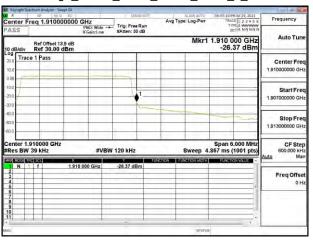


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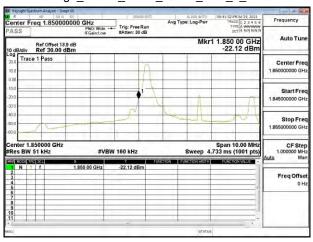
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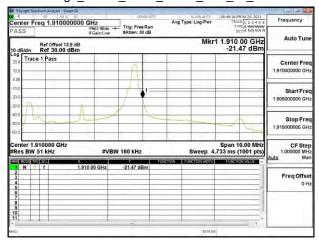
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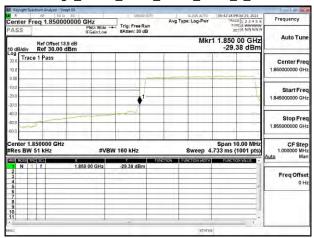
Band Edge_Band2_5MHz_QPSK_RB1_0_CH18625



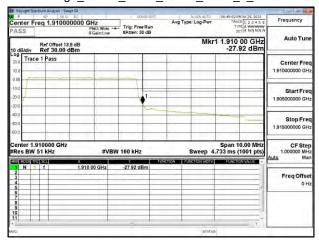
Band Edge Band2 5MHz QPSK RB1 24 CH19175



Band Edge Band2 5MHz QPSK RB25 0 CH18625



Band Edge Band2 5MHz QPSK RB25 0 CH19175



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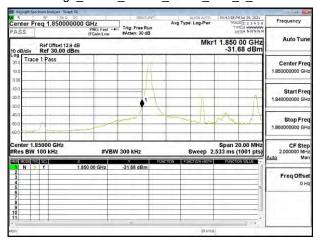
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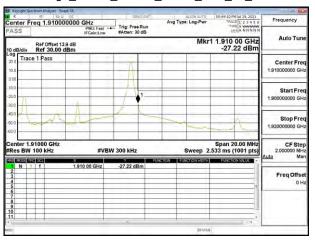


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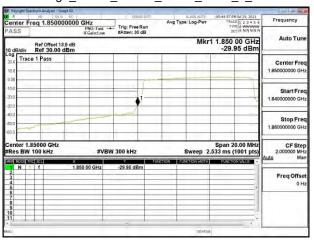
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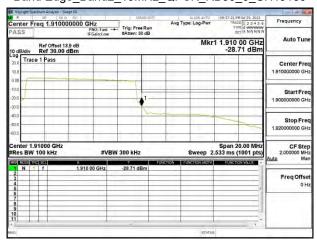
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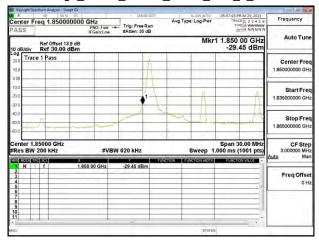
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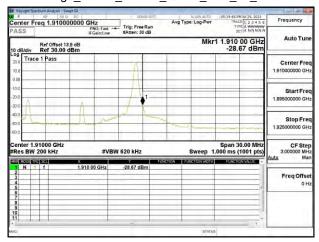
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Band Edge Band2 15MHz QPSK RB1 0 CH18675



Band Edge Band2 15MHz QPSK RB1 74 CH19125



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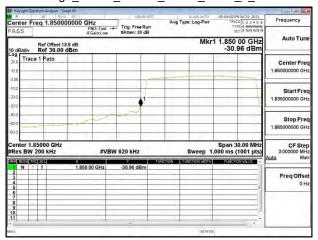
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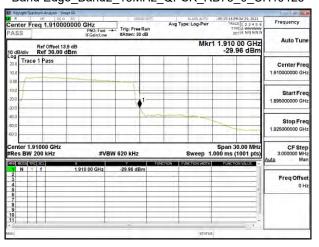


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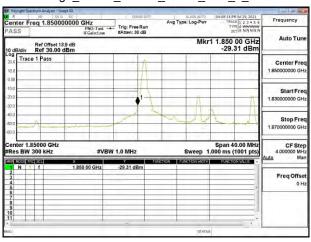
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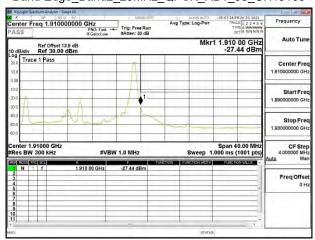
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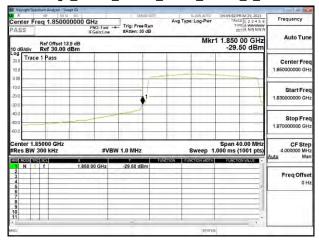
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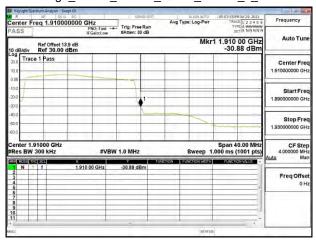
Band Edge Band2 20MHz QPSK RB1 99 CH19100



Band Edge Band2 20MHz QPSK RB100 0 CH18700



Band Edge Band2 20MHz QPSK RB100 0 CH19100



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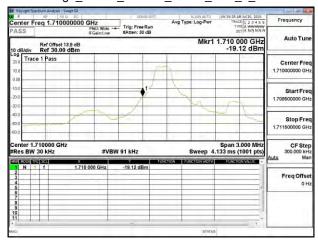
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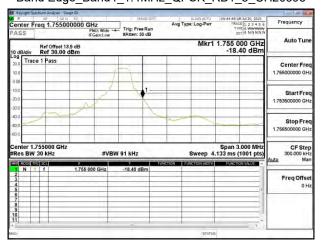


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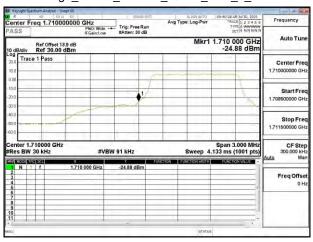
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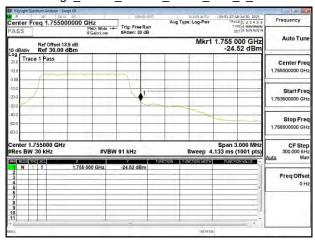
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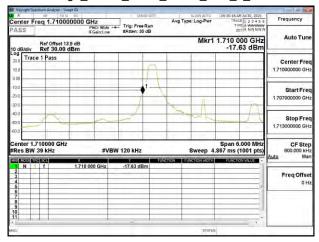
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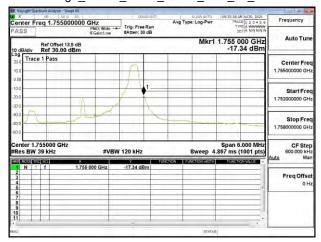
Band Edge Band4 1.4MHz QPSK RB6 0 CH20393



Band Edge Band4 3MHz QPSK RB1 0 CH19965



Band Edge Band4 3MHz QPSK RB1 14 CH20385



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