

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



FCC Applicant:	NEC Platforms,Ltd.
	2-3, tsukasa-machi, kanda, chiyoda-ku, Tokyo, 101-8532, Ja- pan
FCC Manufacturer:	NEC Platforms,Ltd.
	2-3, tsukasa-machi, kanda, chiyoda-ku, Tokyo, 101-8532, Japan
Product Name:	Mobile Router
Brand Name:	NEC Platforms
Model No.:	KMP8S3AB1-1A, KMP8S3AA1-1A
Model Difference:	N/A
Report Number:	TERF2204000399E2
FCC ID	2AA5WKMP8S3AB
Issue Date:	June 17, 2022
Date of Test:	June 10, 2022
Date of EUT Received:	April 21, 2022

by the

Approved By

Jay Lin

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI ANSI C63.26-2015 and the energy emitted by the sample EUT comply with FCC rule part 2, 22H & 24E & 27 C & 90S.

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Revision History									
Report Number	Revision	Description	Issue Date	Revised By	Remark				
TERF2204000399E2	00	Original	June 17, 2022	Candice Li					

Note:

- 1 . The remark "\*" indicates modification of the report upon requests from certification body.
- 2 · Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.

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### **GENERAL PRODUCT INFORMATION** 1

#### 1.1 **Product Description**

Product Name:	Mobile Router			
Brand Name:	NEC Platforms			
Model No.:	KMP8S3AB1-1A, KMP8S3AA1-1A			
Model Difference:	N/A			
Hardware Version:	1			
Firmware Version:	1			
EUT Series No.:	359798890030510			
Power Supply:	3.8Vdc			
Test Software (Name/Version)	default(link 8820C)			

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#### **Operation Frequency Range** 1.2

-	LTE Bar						
BW (MHz)	Operation	Freque	ency (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 Band 4							
BW (MHz)	Operation	Freque	ency (MHz)				
1.4	1710.7	-	1754.3				
3	1711.5	-	1753.5				
5	1712.5	-	1752.5				
10	1715.0	-	1750.0				
15	1717.5	-	1747.5				
20	1720.0	-	1745.0				
	LTE Bar	nd 5					
BW (MHz)	Operation	Freque	ency (MHz)				
1.4	824.7	-	848.3				
3	825.5	-	847.5				
5	826.5	-	846.5				
10	829.0	-	844.0				
	LTE Band 12						
BW (MHz)	Operation Frequency (MHz)						
1.4	699.7	-	715.3				
1.4 3	699.7 700.5	-	715.3 714.5				
		-					

	LTE Band 17							
BW (MHz)	Operation Frequency (MHz)							
5	706.5	-	713.5					
10	709.0	-	711.0					
LTE Band 26								
BW (MHz)	Operation Frequency (MHz)							
1.4	824.7	-	848.3					
3	825.5	-	847.5					
5	826.5	-	846.5					
10	829.0	-	844.0					
15	831.5	-	841.5					
	LTE Band 26	Part 9	0					
BW (MHz)	Operation	Freque	ncy (MHz)					
1.4	814.7	-	823.3					
3	815.5							
3	010.0	-	822.5					
5	816.5	-	822.5 821.5					
		-						
5	816.5	- - d 41						
5	816.5 819.0 <b>LTE Ban</b>							
5 10	816.5 819.0 <b>LTE Ban</b>		821.5					
5 10 BW (MHz)	816.5 819.0 <b>LTE Ban</b> Operation		821.5 ncy (MHz)					
5 10 BW (MHz) 5	816.5 819.0 <b>LTE Ban</b> Operation 2498.5		821.5 ncy (MHz) 2687.5					

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#### 1.3 Antenna Designation

Antenna Type	Antenna Model No.				
Inverted F	Ant1				
Inverted L	Ant3				
Note: Transmission	Note: Transmission fragmentics in this test report are only evoluble by the shows enterpro(s)				

**Note:** Transmission frequencies in this test report are only available by the above antenna(s).

Modulation	Fr	equen	•	Peak Antenna Gain (dBi)		
		(MHz	)	Ant1	Ant3	
LTE-Band 2	1850	~	1910		0.3	
LTE-Band 4	1710	~	1755		-0.8	
LTE-Band 5	824	~	849	0.3		
LTE-Band 12	699	~	716	-1.1		
LTE-Band 17	704	~	716	-1.1		
LTE-Band 26 Part 90	814	~	824	0.2		
LTE-Band 26	824	~	849	0.2		
LTE-Band 41	2496	~	2690		-0.2	

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	Frequ	uency	Modulation	ERP / EIR	P (dBm)	(W)	99%	Type of	i í
Band			-	QPSK	22.80	EIRP	. ,	1.0050	Emission	i -
2	1.4	1850.7	1909.3			EIRP	0.191	1.0859	1M09G7D	
2	1.4	1850.7	1909.3	16QAM 64QAM	22.75	EIRP	0.188	1.0863	1M09D7W	
				04QAM QPSK	22.77 22.79	EIRP	0.189	1.0866 2.6839	1M09D7W	i -
0	3	4054.5	1000 5		22.79	EIRP	0.190	2.6839	2M68G7D	
2	3	1851.5	1908.5	16QAM			0.187		2M68D7W	
				64QAM	22.64	EIRP	0.184	2.6899	2M69D7W	-
				QPSK	22.61	EIRP	0.182	4.4865	4M49G7D	
2	5	1852.5	1907.5	16QAM	22.75	EIRP	0.188	4.4811	4M48D7W	
				64QAM	22.68	EIRP	0.185	4.4907	4M49D7W	1
				QPSK	22.78	EIRP	0.190	8.9745	8M97G7D	
2	10	1855.0	1905.0	16QAM	22.74	EIRP	0.188	8.9450	8M95D7W	
				64QAM	22.68	EIRP	0.185	8.9556	8M96D7W	i L
				QPSK	22.64	EIRP	0.184	13.468	13M5G7D	i [
2	15	1857.5	1902.5	16QAM	22.78	EIRP	0.190	13.432	13M4D7W	i L
				64QAM	22.64	EIRP	0.184	13.402	13M4D7W	i l
				QPSK	22.84	EIRP	0.192	17.879	17M9G7D	i l
2	20	1860.0	1900.0	16QAM	22.88	EIRP	0.194	17.908	17M9D7W	i L
				64QAM	22.94	EIRP	0.197	17.905	17M9D7W	i [
LTE		-							Type of	i l
Band	BW	Frequ	lency	Modulation	ERP / EIR	P (dBm)	(W)	99%	Emission	i l
				QPSK	20.86	EIRP	0.122	1.0857	1M09G7D	i T
4	1.4	1710.7	1754.3	16QAM	20.90	EIRP	0.123	1.0862	1M09D7W	i l
				64QAM	20.87	EIRP	0.122	1.0872	1M09D7W	i l
				QPSK	20.83	EIRP	0.121	2.6847	2M68G7D	i t
4	3	1711.5	1753.5	16QAM	20.89	EIRP	0.123	2.6849	2M68D7W	i l
	°,		1100.0	64QAM	20.91	EIRP	0.123	2.6887	2M69D7W	i l
				QPSK	21.07	EIRP	0.128	4.4854	4M49G7D	i F
4	5	1712.5	1752.5	16QAM	21.07	EIRP	0.120	4.4855	4M49D7W	i l
4	э	1712.5	1/52.5	64QAM	21.04	EIRP	0.127	4.4055	4M49D7W	i F
					21.02	EIRP	0.120			i l
	10	1715.0	1750.0	QPSK				8.9672	8M97G7D	i l
4	10	1715.0	1750.0	16QAM	21.02	EIRP	0.126	8.9503	8M95D7W	i ŀ
				64QAM	21.11	EIRP	0.129	8.9585	8M96D7W	
				QPSK	21.06	EIRP	0.128	13.4460	13M4G7D	
4	15	1717.5	1747.5	16QAM	21.11	EIRP	0.129	13.4300	13M4D7W	i k
				64QAM	21.03	EIRP	0.127	13.4250	13M4D7W	
				QPSK	21.11	EIRP	0.129	17.9140	17M9G7D	i F
4	20	1720.0	1745.0	16QAM	21.09	EIRP	0.129	17.9490	17M9D7W	
				64QAM	21.15	EIRP	0.130	17.9180	17M9D7W	
LTE	BW	Frequ	lency	Modulation	ERP / EIR	P (dBm)	(W)	99%	Type of	i -
Band			-			· · /	. ,	4.0004	Emission	i l
				QPSK	20.86	ERP	0.122	1.0861	1M09G7D	
26	1.4	824.7	848.3	16QAM	20.94	ERP	0.124	1.0866	1M09D7W	
				64QAM	20.90	ERP	0.123	1.0868	1M09D7W	
				QPSK	20.75	ERP	0.119	2.6932	2M69G7D	
26	3	825.5	847.5	16QAM	20.74	ERP	0.119	2.6836	2M68D7W	-
				64QAM	20.80	ERP	0.120	2.6897	2M69D7W	
				QPSK	20.87	ERP	0.122	4.4820	4M48G7D	
26	5	826.5	846.5	16QAM	20.87	ERP	0.122	4.4860	4M49D7W	i l
				64QAM	20.86	ERP	0.122	4.4941	4M49D7W	
				QPSK	20.77	ERP	0.119	8.9888	8M99G7D	
26	10	829.0	844.0	16QAM	20.87	ERP	0.122	8.9594	8M96D7W	
				64QAM	20.89	ERP	0.123	8.9777	8M98D7W	
				QPSK	21.04	ERP	0.127	13.4620	13M5G7D	i L
			1							i Ī
26	15	831.5	841.5	16QAM	21.01	ERP	0.126	13.4420	13M4D7W	

LTE		-			500 / F/-	D ( I =		0001	Type of		
Band	BW	Frequ	iency	Modulation	ERP / EIR	P (dBm)	(W)	99%	Emission		
				QPSK	21.03	ERP	0.127	1.0858	1M09G7D		
5	1.4	824.7	848.3	16QAM	20.97	ERP	0.125	1.0876	1M09D7W		
				64QAM	21.03	ERP	0.127	1.0863	1M09D7W		
				QPSK	20.82	ERP	0.121	2.6825	2M68G7D		
5	3	825.5	847.5	16QAM	20.93	ERP	0.124	2.6836	2M68D7W		
				64QAM	20.87	ERP	0.122	2.6895	2M69D7W		
				QPSK	20.93	ERP	0.124	4.4820	4M48G7D		
5	5	826.5	846.5	16QAM	20.81	ERP	0.121	4.4872	4M49D7W		
				64QAM	20.97	ERP	0.125	4.4926	4M49D7W		
				QPSK	21.14	ERP	0.130	8.9741	8M97G7D		
5	10	829.0	844.0	16QAM	21.10	ERP	0.129	8.9574	8M96D7W		
1.7.5				64QAM	21.06	ERP	0.128	8.9739	8M97D7W		
LTE Band	BW	Frequ	iency	M odulation	ERP / EIR	P (dBm)	(W)	99%	Type of Emission		
Dana				QPSK	19.31	ERP	0.085	1.0858	1M09G7D		
12	1.4	699.7	715.3	16QAM	19.35	ERP	0.086	1.0876	1M09D7W		
				64QAM	19.31	ERP	0.085	1.0858	1M09D7W		
				QPSK	19.32	ERP	0.086	2.6828	2M68G7D		
12	3	700.5	714.5	16QAM	19.30	ERP	0.085	2.6846	2M68D7W		
				64QAM	19.35	ERP	0.086	2.6886	2M69D7W		
				QPSK	19.35	ERP	0.086	4.4848	4M48G7D		
12	5	701.5	713.5	16QAM	19.34	ERP	0.086	4.4899	4M49D7W		
				64QAM	19.27	ERP	0.085	4.4986	4M50D7W		
				QPSK	19.38	ERP	0.087	8.9749	8M97G7D		
12	10	704.0	711.0	16QAM	19.47	ERP	0.089	8.9406	8M94D7W		
				64QAM	19.40	ERP	0.087	8.9653	8M97D7W		
LTE	BW				ERP / EIR		040	99%	Type of		
Band	BW	Frequ	lency	Modulation	ERP / EIR	P (aBm)	(W)	99%	Emission		
				QPSK	19.33	ERP	0.086	4.4864	4M49G7D		
17	5	706.5	713.5	16QAM	19.25	ERP	0.084	4.4896	4M49D7W		
						64QAM	19.28	ERP	0.085	4.4922	4M49D7W
				QPSK	19.38	ERP	0.087	8.9630	8M96G7D		
17	10	709.0	711.0	16QAM	19.43	ERP	0.088	8.9425	8M94D7W		
				64QAM	19.40	ERP	0.087	8.9643	8M96D7W		
LTE	BW	Frequ	iency	M odulation	Conducte	d (dBm)	(W)	99%	Type of		
Band				QPSK	22.94	ERP	0.197	1.0858	Emission 1M09G7D		
26	1.4	814.7	823.3	16QAM	22.72	ERP	0.187	1.0886	1M09D7W		
Part 90	1.4	014.7	020.0	64QAM	22.88	ERP	0.194	1.0864	1M09D7W		
				QPSK	22.67	ERP	0.185	2.6832	2M68G7D		
26	3	815.5	822.5	16QAM	22.92	ERP	0.196	2.6858	2M69D7W		
Part 90	•	010.0	022.0	64QAM	22.81	ERP	0.191	2.6863	2M69D7W		
				QPSK	22.69	ERP	0.186	4.4819	4M48G7D		
26	5	816.5	821.5	16QAM	22.76	ERP	0.189	4.4839	4M48D7W		
Part 90	-			64QAM	22.88	ERP	0.194	4.4885	4M49D7W		
				QPSK	22.72	ERP	0.187	8.9376	8M94G7D		
26	10	819.0	819.0	16QAM	21.77	ERP	0.150	8.9078	8M91D7W		
Part 90				64QAM	20.73	ERP	0.118	8.9294	8M93D7W		
LTE	DW	<b>5</b>						000/	Type of		
Band	BW	Frequ	iency	Modulation	ERP / EIR	Р (авт)	(W)	99%	Emission		
				QPSK	22.57	EIRP	0.181	4.4808	4M48G7D		
41	5	2498.5	2687.5	16QAM	22.75	EIRP	0.188	4.4900	4M49D7W		
				64QAM	22.58	EIRP	0.181	4.4930	4M49D7W		
				QPSK	22.46	EIRP	0.176	8.9694	8M97G7D		
41	10	2501.0	2685.0	16QAM	22.88	EIRP	0.194	8.9970	9M00D7W		
				64QAM	22.67	EIRP	0.185	8.9594	8M96D7W		
				QPSK	22.54	EIRP	0.179	13.4750	13M5G7D		
				16QAM	22.84	EIRP	0.192	13.4390	13M4D7W		
41	15	2503.5	2682.0	TOGAN							
41	15	2503.5	2682.0	64QAM	22.68	EIRP	0.185	13.4250	13M4D7W		
41	15	2503.5	2682.0			EIRP EIRP	0.185 0.182	13.4250 17.9000	13M4D7W 17M9G7D		
41	15 20	2503.5 2506.0	2682.0	64QAM	22.68						

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台灣檢驗科技股份有限公司

SGS Taiwan Ltd.

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#### 1.5 **Test Methodology of Applied Standards**

FCC 47 CFR Part 2, 22H, 24E, 27C, Part 90. ANSI C63.26-2015 KDB971168 D01 Power Meas license Digital System v03r01 KDB412172 D01 Determining ERP and EIRP v01r01

#### 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		TW3702
		Conducted 5		
SGS Taiwan Ltd.		Conducted 6		
Central RF Lab.	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C		
(TAF code 3702)		SAC C	TW0028	
$(1AI \ code \ 5102)$		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D	_	
		Conducted E	-	
		Conducted F		
		Conducted G		
	ame is remarked on the equipmen			s an indica-
tion where	measurements occurred in specif	ic test site and add	dress.	

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#### 1.7 **Special Accessories**

No special accessories were used during testing.

#### 1.8 Equipment Modifications

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\*6m\*6m semi-anechoic chamber.

the measurements correspond to those obtained at an open-field test site.

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

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# 2 SYSTEM TEST CONFIGURATION

## 2.1 EUT Configuration

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

# 2.2 EUT Exercise

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

### 2.3 Test Procedure

# 2.3.1 Conducted Measurement at Antenna Port

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

# 2.3.2 Radiated Emissions (ERP/EIRP)

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

### 2.4 Measurement Results Explanation Example

### For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level. **Note:** 

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

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# 2.5 Final Amplifier Voltage and Current Information:

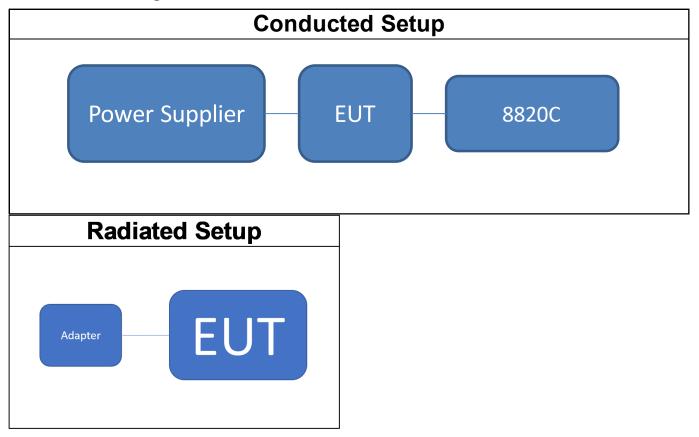
LTE Band 2			LTE Band 4				
Test mode	DC voltage (V)	DC current (mA)	Test mode	DC voltage (V)	DC current (mA)		
LTE Band 2_20M QPSK	3.8	592	LTE Band 4_20M QPSK	3.8	621		
LTE Band 5 LTE Band 12							
Test mode	DC voltage (V)	DC current (mA)	Test mode	DC voltage (V)	DC current (mA)		
LTE Band 5_10M QPSK	3.8	606	LTE Band 5_10M QPSK	3.8	613		
LTE Band 17			LTE Band 26 for	Part 90S			
Test mode	DC voltage (V)	DC current (mA)	Test Mode	DC voltage (V)	DC current (mA)		
LTE Band 17_10M QPSK	3.8	587	LTE Band 26_10M QPSK	3.8	621		
LTE Band 26			LTE Band 41				
Test mode	DC voltage (V)	DC current (mA)	Test Mode	DC voltage (V)	DC current (mA)		
LTE Band 26_15M QPSK	3.8	589	LTE Band 41_20M QPSK	3.8	584		

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#### 2.6 **Test Configuration**



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

#### 2.7 Control Unit(s)

	Radiated Emission Test Site: SAC G									
EQUIPME NT TYPE	I MFR I MODEL NUMBER I SERIAL NUMBER I LAST CAL. I CAL DUE.									
Adapter	Adapter Lapo WT-02CA 4712966931002 N/A N/A									

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### SUMMARY OF TEST RESULTS 3

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§22.913(a)(5) §24.232(c) §27.50(c)(10) §27.50(d)(4) §27.50(h)(2) §90.635	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% & 26dB Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.53(h) §27.53(m) §90.691	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask re- quirements	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(g) §27.53(h) §27.53(m)(2) §90.691	Field Strength of Spurious Radiation	Compliant
§24.232(d) §27.50(a)(1)(B)	Peak to Average Ratio	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54	Frequency Stability	Compliant

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### **DESCRIPTION OF TEST MODES** 4

#### 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 scenario from all possible combinations among available modulations, data rates and antenna ports, the worst case configurations listed below for the final test.
- 3. The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

#### 4.2 **Measurement Configuration**

	Test Ite	ms		Max. Output Power												
Band	Te	st Chanı	nel		I	Bandwid	lth (MHz	)			Modu	lation			RB #	
Banu	L	М	Н	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full
2	V	V	v	v	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	V	V	V	V
5	V	V	V	V	V	V	V	-	-	V	V	V	V	V	V	V
12	V	V	V	V	V	v	V	-	-	V	V	V	V	V	V	V
17	V	V	V	-	-	v	V	-	-	V	V	V	V	V	V	V
26 26 P90	V	V	V	V	V	V	V	V	-	V	V	V	V	V	V	V
41	V V	V V	V V	V -	- V	V V	V V	- V	- V	V V	V V	V V	V V	V V	V V	V V
41	V	V	V	-	-	V	V	V	V	V	V	V	V	V	V	V
	Test Ite	ms			Freqency Stability											
2	-	V	-				v			V	-	-	-	-	-	V
4	-	V	-				V			V	-	-	-	-	-	V
5	-	V	-				V	-	-	V	-	-	-	-	-	V
12 17	-	V	-				V	-	-	V	-	-	-	-	-	V
26	-	V	-	-	-		V	-	-	V	-	-	-	-	-	V
26 P90	-	V V	-				V V	-	-	V V	-	-	-	-	-	V V
41	-	v	-	-	-		v	-	-	v	-	-	-	-	-	v
	1								260	B and 9	9%					· ·
	Test Ite									andwidt	h					
Band	Te	st Chanı	nel		I	Bandwid	lth (MHz	)			Modu	lation			RB #	
Dallu	L	М	Н	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	64QAM	4	1.1.10	Full
2					-				20	QI OK		0.00.00	0-QAW	1	Half	i uii
	V	v	V	V	V	v	v	V	20 V	V	V	V	V	1	Half	V
4	V V	V V				V V	V V	V V	-					-		
5	V V	V V	V V V	V V V	V V V	V V	V V	V -	V V -	V V V	V V V	V V V	V V V	-	-	V V V
5 12	V V V	V V V	V V V V	V V V V	V V V V	V V V	V V V	V - -	V V -	V V V V	V V V V	V V V V	V V V V		- - -	V V V V
5 12 17	V V V V	V V V V	V V V V V	V V V V -	V V V V -	V V V V	V V V V	V - -	V V - -	V V V V V	V V V V V	V V V V V	V V V V V		- - - -	V V V V V
5 12 17 26	V V V V V	V V V V V	V V V V V V	V V V - V	V V V - V	V V V V	V V V V V	V - - V	V V - - -	V V V V V V	V V V V V V	V V V V V V	V V V V V V	- - - - -	- - - - -	V V V V V V
5 12 17 26 26 P90	V V V V V V	V V V V V V	V V V V V V V	V V V - V V	V V V - V V	V V V V V V	V V V V V V	V - - V -	V V - - - -	V V V V V V V	V V V V V V V	V V V V V V V	V V V V V V V		- - - - - - -	V V V V V V V
5 12 17 26	V V V V V	V V V V V	V V V V V V	V V V - V	V V V - V	V V V V	V V V V V	V - - V	V V - - -	V V V V V V	V V V V V V	V V V V V V	V V V V V V	- - - - -	- - - - -	V V V V V V
5 12 17 26 26 P90 41	V V V V V V	V V V V V V V	V V V V V V V	V V V - V V	V V V - V V	V V V V V V	V V V V V V	V - - V -	V 	V V V V V V V	V V V V V V V V	V V V V V V V	V V V V V V V		- - - - - - -	V V V V V V V
5 12 17 26 26 P90 41 2	V V V V V V V	V V V V V V V	V V V V V V V	V V V - V V	V V V - V V	V V V V V V V	V V V V V V	V - - V -	V 	V V V V V V V V V	V V V V V V V V	V V V V V V V	V V V V V V V		- - - - - - -	V V V V V V V
5 12 17 26 26 P90 41 2 2 4	v           v           v           v           v           v           v           v           v           v           v           v           v           v           v	V V V V V V ms V V	V V V V V V V V	V V V - V V - V V V V	V V V - V - V V V V	V V V V V V V V	V V V V V V V V	V - - V - V V V V	V V - - - V V Peak-to	v v v v v v v v v v v v v v v v v v v	v v v v v v v v v v v v v v v v v v v	V V V V V V V	V V V V V V V	-	- - - - - - -	V V V V V V V V V
5 12 17 26 26 P90 41 2 4 5	V V V V V V Test Iter	V V V V V V MS V V	V V V V V V V V V V V V V V	V V V - V V V V V V V V	V V V - V - V V V V V V V	V V V V V V V V V	V V V V V V V V V	V - - V - V V V V -	V V - - - V V Peak-to V V V V	v v v v v v v v v v v v v v v v v v v	v v v v v v v v v v v v v v v v v v v	V V V V V V V	V V V V V V V	-		V V V V V V V V V V V
5 12 17 26 26 P90 41 2 4 5 12	V V V V V V Test Iter V V V V V V V	V V V V V V MS V V V V V	V V V V V V V V V V V V V V V V V V	V V V - V V V V V V V V V	V V V - V - V V V V V V V	V V V V V V V V V V V V V V	V V V V V V V V V V V V V	V - - V - V V V - - -	V V - - - V V Peak-to V V V - -	v v v v v v v v v v v v v v v v v v v	v v v v v v v v v v v v v v v v v v v	V V V V V V V	V V V V V V V	-		V V V V V V V V V V V V V
5 12 17 26 26 P90 41 2 4 5 12 17	V V V V V V Test Iter V V V V V V V V	V V V V V V MS V V V V V V	V V V V V V V V V V V V V V V V V	V V V - V V - V V V V V V V V	V V V - V - V V V V V V V V V	V V V V V V V V V V V V V V	V V V V V V V V V V V V V V	V  - V - V V - V - - V - - -	V V - - - V V Peak-to V V V - - - -	v v v v v v v v v v v v v v v v v v v	v v v v v v v v v v v v v v v v v v v	V V V V V V V	V V V V V V V		- - - - - - - - - - - - - - - - - - -	V V V V V V V V V V V V V V V
5 12 17 26 26 P90 41 2 4 5 12 17 26	V V V V V V Test Iter V V V V V V V V V V	V V V V V V MS V V V V V V V V	V V V V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V	V V V - V V - V V V V V V V V V	V V V V V V V V V V V V V V V V	V V V V V V V V V V V V V V V V	V - - V - V V V - - -	V V - - - V V Peak-to V V - - - - - -	v v v v v v v v v v v v v v v v v v v	v v v v v v v v v v v v v v v v v v v	V V V V V V V	V V V V V V V		- - - - - - - - - - - - - - - - - - -	V V V V V V V V V V V V V V V V V
5 12 17 26 26 P90 41 2 4 5 12 17	V V V V V V Test Iter V V V V V V V V	V V V V V V MS V V V V V V	V V V V V V V V V V V V V V V V V	V V V - V V - V V V V V V V V	V V V - V - V V V V V V V V V	V V V V V V V V V V V V V V	V V V V V V V V V V V V V V	V  - V - V V - V - - V - - -	V V - - - V V Peak-to V V V - - - -	v v v v v v v v v v v v v v v v v v v	v v v v v v v v v v v v v v v v v v v	V V V V V V V	V V V V V V V		- - - - - - - - - - - - - - - - - - -	V V V V V V V V V V V V V V V

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	Test Iter	ms							В	and Edg	je					
Devid	Tes	st Chanr	nel		E	Bandwid	th (MHz	)			Modu	lation			RB #	
Band	L	М	Н	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	64QAM	1	Half	Full
2	V	-	V	v	V	V	V	٧	V	V	-	-	-	V	V	V
4	v	-	v	V	V	V	V	V	V	V	-	-	-	V	v	V
5	v	-	v	v	v	v	v	-	-	v	-	-	-	V	v	v
12	v	-	v	v	v	v	v	-	-	v	-	-	-	V	V	V
17	v	-	v	-	-	v	v	-	-	v	-	-	-	v	v	v
26	v	-	v	v	v	v	v	v	-	v	-	-	-	V	v	V
26 P90	v	-	v	v	v	v	v	-	-	v	-	-	-	v	v	v
41	V	-	V	-	-	V	V	٧	V	V	-	-	-	V	V	V
	Test Iter	ms			Conducted Emission											
2	v	V	V	v	V	V	V	V	V	V	-	-	-	V	-	-
4	v	v	v	v	v	v	v	v	v	v	-	-	-	v	-	-
5	v	v	v	v	v	v	v	-	-	v	-	-	-	V	-	-
12	V	V	V	V	V	V	V	-	-	V	-	-	-	V	-	-
17	v	v	v	-	-	V	v	-	-	V	-	-	-	v	-	-
26	v	v	٧	v	٧	٧	٧	٧	-	V	-	-	-	V	-	-
26 P90	v	v	v	v	v	v	v	-	-	v	-	-	-	v	-	-
41	V	V	V	-	-	V	V	V	V	V	-	-	-	V	-	-
	Test Ite	ms							Radia	ited Emi	ssion					
Band	Te	st Chan	nel		E	Bandwid	th (MHz	:)			Modu	lation			RB #	
Danu	L	М	Н	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full
2	V	V	V						V			v		V		
4	V	V	V						V			V		V		
5	V	V	V				V	-	-	V				V		
12	V	V	V				V	-	-		V			V		
17	V	V	V	-	-		V	-			V			V		
26	V	V	V					V	-	v				V		
26 P90	V	V	V	V				-	-	V				V		
41	V	V	V	-	-	V	V	V	V	V	-	-	-	V	-	-

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### **MEASUREMENT UNCERTAINTY** 5

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

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

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

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# 6 MEASUREMENT EQUIPMENT USED

### 6.1 Conducted Measurement

	Conducted Emission Test Site: Conducted E										
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.						
DC Power Supply	Gwinstek	SPS-3610	GEV856769	08/04/2021	08/03/2022						
Radio Communication Analyer	Anritsu	MT8820C	6201107337	07/28/2021	07/27/2022						
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/13/2021	07/12/2022						
Temperature Chamber	TERCHY	MHK-120LK	1020582	07/01/2021	06/30/2022						
Attenuator	Marvelous	MVE2213-10	RF06	11/18/2021	11/17/2022						
DC Block	PASTERNACK	PE8210	RF158	11/18/2021	11/17/2022						
Coaxial Cables	Woken	00100A1F1A185C	RF71	11/18/2021	11/17/2022						
Splitter	Woken	DOM35LW1A2	RF255	11/18/2021	11/17/2022						

### 6.2 Radiated Measurement

		Radia	ted Emission Test Site: SAC		
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	1206	02/15/2022	02/14/2023
Horn Antenna	Schwarzbeck	BBHA9170	184	12/16/2021	12/15/2022
Horn Antenna	RF SPIN	DRH18-E	210105A18E	04/08/2022	04/07/2023
3m Site NSA	SGS	966 chamber G	N/A	03/30/2022	03/29/2023
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/13/2021	07/12/2022
Test Software	audix	e3	E3 20923 SGS Ver.9 ( C )	N.C.R	N.C.R
Pre- Amplifier	EMC Instruments	EMC184045B	980135	10/27/2021	10/26/2022
Pre- Amplifier	EMC Instruments	EMC330N	980781	03/15/2022	03/14/2023
Pre- Amplifier	EMC Instruments	EMC118A45SE	980815	03/15/2022	03/14/2023
Attenuator	Marvelous	MVE2213-10	RF05	11/18/2021	11/17/2022
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM- 8000-5000-2000	210216 ` 210217 ` 210218	03/15/2022	03/14/2023
Coaxial Cable	EMC Instruments	EMC104-SM-SM-8000- 5000-5000	210219 \ 210220 \ 210221	03/15/2022	03/14/2023
Coaxial Cable	EMC Instruments	EMC105-NM-NM-5000- 15000	210224 ` 210306	03/15/2022	03/14/2023

NOTE: N.C.R refers to Not Calibrated Required.

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### MAXIMUM OUTPUT POWER 7

#### 7.1 Standard Applicable

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals.

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

According to FCC §2.1046

### FCC 22.913(a)

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

### FCC 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.

### FCC 90.635(b)

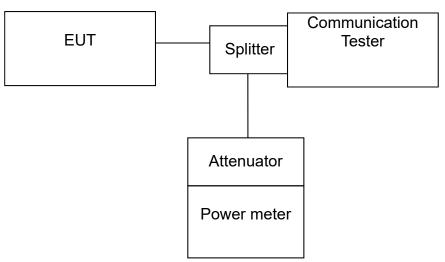
Mobile station is limited to 100W ERP

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



Note: Measurement setup for testing on Antenna connector

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

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

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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### 7.4 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	<ul> <li>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);</li> </ul>
Ρτ	= transmitter output power, expressed in dBW, dBm, or PSD;
Gτ	= gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);
Lc	<ul> <li>signal attenuation in the connecting cable between the transmitter and antenna, in dB.</li> </ul>

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### **Measurement Results:** 7.5

1

Antenna	gain (dBi)	0.3							
		I	LTE Band 2_Up	link 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	22.33	22.63	33	-10.37
	18607	1850.7	QPSK	1	5	22.50	22.80	33	-10.2
	10007	1050.7	QFSN	3	2	22.45	22.75	33	-10.25
				6	0	21.20	21.50	33	-11.5
				1	0	21.34	21.64	33	-11.36
1.4	18900	1880	QPSK	1	5	21.34	21.64	33	-11.36
1.4	10900	1000	QFON	3	2	21.21	21.51	33	-11.49
				6	0	20.46	20.76	33	-12.24
				1	0	20.40	20.70	33	-12.3
	19193	1909.3	QPSK	1	5	20.48	20.78	33	-12.22
	19195	1909.5	QUON	3	2	20.22	20.52	33	-12.48
				6	0	19.39	19.69	33	-13.31
				1	0	22.45	22.75	33	-10.25
	18607	1850.7	16QAM	1	5	22.33	22.63	33	-10.37
	10007	1050.7	IUGAW	3	2	22.27	22.57	33	-10.43
				6	0	21.24	21.54	33	-11.46
				1	0	21.48	21.78	33	-11.22
1.4	18900	1880	16QAM	1	5	21.39	21.69	33	-11.31
1.4	10900	1000	TOQAIVI	3	2	21.45	21.75	33	-11.25
				6	0	20.49	20.79	33	-12.21
				1	0	20.33	20.63	33	-12.37
	19193	1909.3	16QAM	1	5	20.27	20.57	33	-12.43
	19195	1909.5	TOQAN	3	2	20.42	20.72	33	-12.28
				6	0	19.43	19.73	33	-13.27
				1	0	22.33	22.63	33	-10.37
	18607	1850.7	64QAM	1	5	22.36	22.66	33	-10.34
	10007	1050.7	040/10	3	2	22.47	22.77	33	-10.23
				6	0	21.38	21.68	33	-11.32
				1	0	21.48	21.78	33	-11.22
1.4	18900	1880	64QAM	1	5	21.29	21.59	33	-11.41
1.4	10300	1000		3	2	21.45	21.75	33	-11.25
				6	0	20.43	20.73	33	-12.27
				1	0	20.26	20.56	33	-12.44
	19193	1909.3	64QAM	1	5	20.48	20.78	33	-12.22
	10100	1000.0		3	2	20.33	20.63	33	-12.37
				6	0	19.42	19.72	33	-13.28

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Antenna	gain (dBi)	0.3							
			LTE Band 2_Up	link 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	22.49	22.79	33	-10.21
	18615	1851.5	QPSK	1	14	22.21	22.51	33	-10.49
	10015	1051.5	QFON	8	4	21.50	21.80	33	-11.2
				15	0	21.39	21.69	33	-11.31
				1	0	21.38	21.68	33	-11.32
3	18900	1880	QPSK	1	14	21.45	21.75	33	-11.25
5	10300	1000	QUON	8	4	20.31	20.61	33	-12.39
				15	0	20.48	20.78	33	-12.22
				1	0	20.27	20.57	33	-12.43
	19185	1908.5	QPSK	1	14	20.21	20.51	33	-12.49
	19105	1900.5	QFON	8	4	19.28	19.58	33	-13.42
				15	0	19.31	19.61	33	-13.39
				1	0	22.42	22.72	33	-10.28
	18615	1851.5	16QAM	1	14	22.39	22.69	33	-10.31
	10015	1051.5	16QAM	8	4	21.28	21.58	33	-11.42
				15	0	21.37	21.67	33	-11.33
				1	0	21.36	21.66	33	-11.34
3	18900	1880	16QAM	1	14	21.28	21.58	33	-11.42
5	10900	1000	TOQAIVI	8	4	20.31	20.61	33	-12.39
				15	0	20.37	20.67	33	-12.33
				1	0	20.24	20.54	33	-12.46
	19185	1908.5	16QAM	1	14	20.43	20.73	33	-12.27
	19100	1900.5	TOQAIVI	8	4	19.30	19.60	33	-13.4
				15	0	19.35	19.65	33	-13.35
				1	0	22.34	22.64	33	-10.36
	18615	1851.5	64QAM	1	14	22.20	22.50	33	-10.5
	10015	1051.5	04QAW	8	4	21.24	21.54	33	-11.46
				15	0	21.22	21.52	33	-11.48
				1	0	21.23	21.53	33	-11.47
2	18900	1880	64QAM	1	14	21.28	21.58	33	-11.42
3	10900	1000	04QAIVI	8	4	20.33	20.63	33	-12.37
				15	0	20.27	20.57	33	-12.43
				1	0	20.30	20.60	33	-12.4
	10105	1009 5	640444	1	14	20.29	20.59	33	-12.41
	19185	1908.5	64QAM	8	4	19.28	19.58	33	-13.42
				15	0	19.34	19.64	33	-13.36

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台灣檢驗科技股份有限公司

SGS Taiwan Ltd.

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Antenna	gain (dBi)	0.3							
		l	TE Band 2_Up	link frequ	iency bar	rd : 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 24	22.24 22.31	22.54 22.61	33	-10.46 -10.39
	18625	1852.5	QPSK	12	6	21.45	21.75	33	-11.25
				25 1	0	21.21 21.46	21.51 21.76	33 33	-11.49 -11.24
5	18900	1880	QPSK	1 12	24 6	21.25 20.23	21.55 20.53	33 33	-11.45 -12.47
				25 1	0 0	20.45 20.40	20.75 20.70	33 33	-12.25 -12.3
	19175	1907.5	QPSK	1 12 25	24 6 0	20.26 19.28 19.33	20.56 19.58 19.63	33 33 33	-12.44 -13.42 -13.37
	18625 1852.5	16QAM	1 1 12	0 24 6	22.45 22.35 21.22	<b>22.75</b> 22.65 21.52	33 33 33 33	-10.25 -10.35 -11.48	
				25 1	0	21.26 21.27	21.56 21.57	33 33	-11.40 -11.44 -11.43
5	18900	1880	16QAM	1 12 25	24 6 0	21.20 20.50 20.43	21.50 20.80 20.73	33 33 33	-11.5 -12.2 -12.27
	19175	1907.5	16QAM	1 1	0 24	20.44 20.41	20.74 20.71	33 33	-12.26 -12.29
	10110	1001.0		12 25	6 0	19.44 19.24	19.74 19.54	33 33	-13.26 -13.46
	18625	1852.5	64QAM	1 1 12	0 24 6	22.27 22.38 21.43	22.57 <b>22.68</b> 21.73	33 33 33	-10.43 -10.32 -11.27
				25 1	0	21.29 21.37	21.59 21.67	33 33	-11.41 -11.33
5	5 18900 1880 19175 1907.5	1880	64QAM	1 12 25	24 6 0	21.29 20.22 20.39	21.59 20.52 20.69	33 33 33	-11.41 -12.48 -12.31
		64QAM	1 1	0 24	20.29 20.30	20.59 20.60	33 33	-12.41 -12.4	
		1007.0	01301101	12 25	6 0	19.39 19.38	19.69 19.68	33 33	-13.31 -13.32

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Antenna	gain (dBi)	0.3							
		l	LTE Band 2_Up	link 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	22.48	22.78	33	-10.22
	18650	1855	QPSK	1	49	22.36	22.66	33	-10.34
	10030	1000	QION	25	12	21.32	21.62	33	-11.38
				50	0	21.41	21.71	33	-11.29
				1	0	21.39	21.69	33	-11.31
10	18900	1880	QPSK	1	49	21.23	21.53	33	-11.47
10	10900	1000	QFSK	25	12	20.39	20.69	33	-12.31
				50	0	20.42	20.72	33	-12.28
				1	0	20.39	20.69	33	-12.31
	10150	1005		1	49	20.46	20.76	33	-12.24
	19150	1905	QPSK	25	12	19.46	19.76	33	-13.24
				50	0	19.29	19.59	33	-13.41
				1	0	22.44	22.74	33	-10.26
	18650	4055	16QAM	1	49	22.39	22.69	33	-10.31
		1855		25	12	21.20	21.50	33	-11.5
				50	0	21.24	21.54	33	-11.46
				1	0	21.25	21.55	33	-11.45
40	40000	1000	400414	1	49	21.32	21.62	33	-11.38
10	18900	1880	16QAM	25	12	20.38	20.68	33	-12.32
				50	0	20.44	20.74	33	-12.26
				1	0	20.47	20.77	33	-12.23
	40450	1005	400414	1	49	20.50	20.80	33	-12.2
	19150	1905	16QAM	25	12	19.36	19.66	33	-13.34
				50	0	19.20	19.50	33	-13.5
				1	0	22.35	22.65	33	-10.35
	40050	4055	640414	1	49	22.38	22.68	33	-10.32
	18650	1855	64QAM	25	12	21.49	21.79	33	-11.21
				50	0	21.29	21.59	33	-11.41
				1	0	21.43	21.73	33	-11.27
40	10 18900 1880		1	49	21.46	21.76	33	-11.24	
10		1880	64QAM	25	12	20.24	20.54	33	-12.46
				50	0	20.29	20.59	33	-12.41
				1	0	20.27	20.57	33	-12.43
	404-55	4827		1	49	20.21	20.51	33	-12.49
	19150	1905	64QAM	25	12	19.41	19.71	33	-13.29
	1			50	0	19.34	19.64	33	-13.36

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台灣檢驗科技股份有限公司

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                                                                          www.sgs.com.tw
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Antenna	gain (dBi)	0.3							
		l	TE Band 2_Up	ink frequ	iency bar	ıd : 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 74	22.23 22.34	22.53 22.64	33	-10.47 -10.36
	18675	1857.5	QPSK	36 75	18 0	21.43 21.34	21.73 21.64	33 33	-11.27 -11.36
				1	0	21.41	21.71	33	-11.29
15	18900	1880	QPSK	1 36 75	74 18 0	21.24 20.38 20.24	21.54 20.68 20.54	33 33 33	-11.46 -12.32 -12.46
				1 1	0 0 74	20.24 20.35 20.40	20.54 20.65 20.70	33 33	-12.40 -12.35 -12.3
	19125	1902.5	QPSK	36 75	18 0	<u>19.20</u> 19.40	19.50 19.70	33 33	-12.3 -13.5 -13.3
	18675 1857.5	16QAM	1 1	0 74	22.44 22.48	22.74 22.78	33 33	-10.26 -10.22	
		007.0	TOQUIN	36 75	18 0	21.49 21.30	21.79 21.60	33 33	-11.21 -11.4
15	18900	1880	16QAM	1 1 36 75	0 74 18 0	21.21 21.41 20.32 20.21	21.51 21.71 20.62 20.51	33 33 33 33 33	-11.49 -11.29 -12.38 -12.49
	19125	1902.5	16QAM	1 1 36	0 74 18	20.37 20.28 19.38	20.67 20.58 19.68	33 33 33	-12.33 -12.42 -13.32
	18675	1857.5	64QAM	75 1 1	0 0 74	19.46 22.34 22.32	19.76 <b>22.64</b> 22.62	33 33 33	-13.24 -10.36 -10.38
	18675 1857.5			36 75 1	18 0 0	21.43 21.40 21.24	21.73 21.70 21.54	33 33 33	-11.27 -11.3 -11.46
15	18900	1880	64QAM	1 36 75	74 18 0	21.24 21.25 20.36 20.23	21.54 21.55 20.66 20.53	33 33 33 33	-11.45 -12.34 -12.47
	19125	5 1902.5	64QAM	1 1 36	0 0 74 18	20.23 20.41 20.41 19.25	20.33 20.71 20.71 19.55	33 33 33 33	-12.29 -12.29 -13.45
				75	0	19.23	19.53	33	-13.43

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Antenna	gain (dBi)	0.3							
		l	LTE Band 2_Up	link 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	22.54	22.84	33	-10.16
	18700	1860	QPSK	1	99	22.29	22.59	33	-10.41
	10700	1000	QFON	50	25	21.37	21.67	33	-11.33
				100	0	21.73	22.03	33	-10.97
				1	0	21.81	22.11	33	-10.89
20	18900	1880	QPSK	1	99	21.61	21.91	33	-11.09
20	16900	1000	Qron	50	25	20.55	20.85	33	-12.15
				100	0	20.68	20.98	33	-12.02
				1	0	20.31	20.61	33	-12.39
	10100	1000		1	99	20.22	20.52	33	-12.48
	19100	1900	QPSK	50	25	19.46	19.76	33	-13.24
				100	0	19.22	19.52	33	-13.48
				1	0	22.58	22.88	33	-10.12
	18700	1860	16QAM	1	99	22.33	22.63	33	-10.37
				50	25	21.46	21.76	33	-11.24
				100	0	21.44	21.74	33	-11.26
				1	0	21.82	22.12	33	-10.88
00	10000	1000	400414	1	99	21.74	22.04	33	-10.96
20	18900	1880	16QAM	50	25	20.56	20.86	33	-12.14
				100	0	20.58	20.88	33	-12.12
				1	0	20.28	20.58	33	-12.42
	10100	1000	400414	1	99	20.39	20.69	33	-12.31
	19100	1900	16QAM	50	25	19.28	19.58	33	-13.42
				100	0	19.34	19.64	33	-13.36
				1	0	22.64	22.94	33	-10.06
	40700	4000	640414	1	99	22.32	22.62	33	-10.38
	18700	1860	64QAM	50	25	21.51	21.81	33	-11.19
				100	0	21.39	21.69	33	-11.31
				1	0	21.75	22.05	33	-10.95
00	20 18900	4000	640414	1	99	21.69	21.99	33	-11.01
∠0		1880	64QAM	50	25	20.66	20.96	33	-12.04
				100	0	20.57	20.87	33	-12.13
				1	0	20.43	20.73	33	-12.27
	40400	4000		1	99	20.23	20.53	33	-12.47
	19100	1900	64QAM	50	25	19.32	19.62	33	-13.38
				100	0	19.46	19.76	33	-13.24

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Antenna	gain (dBi)	-0.8							
			LTE Band 4_Up	link 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	21.66	20.86	30	-9.14
	19957	1710.7	QPSK	1	5	21.64	20.84	30	-9.16
	19957	1710.7	Qron	3	2	20.66	19.86	30	-10.14
				6	0	20.64	19.84	30	-10.16
				1	0	20.61	19.81	30	-10.19
4 4	20175	1720 5		1	5	20.66	19.86	30	-10.14
1.4	20175	1732.5	QPSK	3	2	20.70	19.90	30	-10.1
				6	0	19.68	18.88	30	-11.12
				1	0	19.64	18.84	30	-11.16
	00000	4754.0	0001	1	5	19.71	18.91	30	-11.09
	20393 1754.3		QPSK	3	2	19.69	18.89	30	-11.11
				6	0	18.61	17.81	30	-12.19
				1	0	21.63	20.83	30	-9.17
	19957	1710.7	16QAM	1	5	21.70	20.90	30	-9.1
				3	2	20.70	19.90	30	-10.1
				6	0	20.62	19.82	30	-10.18
				1	0	20.64	19.84	30	-10.16
	00475	4700 5		1	5	20.65	19.85	30	-10.15
1.4	20175	1732.5	16QAM	3	2	20.66	19.86	30	-10.14
				6	0	19.65	18.85	30	-11.15
				1	0	19.70	18.90	30	-11.1
	00000	1751.0	400.004	1	5	19.64	18.84	30	-11.16
	20393	1754.3	16QAM	3	2	19.61	18.81	30	-11.19
				6	0	18.71	17.91	30	-12.09
	1			1	0	21.61	20.81	30	-9.19
	40057	4740 7	640414	1	5	21.67	20.87	30	-9.13
	19957	1710.7	64QAM	3	2	20.68	19.88	30	-10.12
				6	0	20.68	19.88	30	-10.12
				1	0	20.64	19.84	30	-10.16
	1.4 20175 1732.5	4700 5		1	5	20.68	19.88	30	-10.12
1.4		1732.5	64QAM	3	2	20.69	19.89	30	-10.11
				6	0	19.61	18.81	30	-11.19
				1	0	19.71	18.91	30	-11.09
	00000	4754.0		1	5	19.71	18.91	30	-11.09
	20393	1754.3	64QAM	3	2	19.63	18.83	30	-11.17
				6	0	18.62	17.82	30	-12.18

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台灣檢驗科技股份有限公司

SGS Taiwan Ltd.

t (886-2) 2299-3279

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Antenna	gain (dBi)	-0.8							
		l	LTE Band 4_Up	link 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	21.62	20.82	30	-9.18
	19965	1711.5	QPSK	1	14	21.63	20.83	30	-9.17
	19905	1711.5	QFSN	8	4	20.69	19.89	30	-10.11
				15	0	20.63	19.83	30	-10.17
				1	0	20.71	19.91	30	-10.09
3	20175	1732.5	QPSK	1	14	20.71	19.91	30	-10.09
3	20175	1752.5	QFSK	8	4	19.71	18.91	30	-11.09
				15	0	19.69	18.89	30	-11.11
				1	0	19.66	18.86	30	-11.14
	00005			1	14	19.64	18.84	30	-11.16
	20385 1753.5		QPSK	8	4	18.62	17.82	30	-12.18
				15	0	18.69	17.89	30	-12.11
				1	0	21.69	20.89	30	-9.11
	19965	1711.5	16QAM	1	14	21.67	20.87	30	-9.13
				8	4	20.68	19.88	30	-10.12
				15	0	20.62	19.82	30	-10.18
				1	0	20.70	19.90	30	-10.1
0	00475	4700 5	400414	1	14	20.65	19.85	30	-10.15
3	20175	1732.5	16QAM	8	4	19.61	18.81	30	-11.19
				15	0	19.70	18.90	30	-11.1
				1	0	19.64	18.84	30	-11.16
	00005	4750 5	400.004	1	14	19.62	18.82	30	-11.18
	20385	1753.5	16QAM	8	4	18.64	17.84	30	-12.16
				15	0	18.67	17.87	30	-12.13
				1	0	21.71	20.91	30	-9.09
	10005		640414	1	14	21.64	20.84	30	-9.16
	19965	1711.5	64QAM	8	4	20.71	19.91	30	-10.09
				15	0	20.71	19.91	30	-10.09
				1	0	20.69	19.89	30	-10.11
^	3 20175 1732.5		1	14	20.68	19.88	30	-10.12	
3		1732.5	64QAM	8	4	19.68	18.88	30	-11.12
				15	0	19.65	18.85	30	-11.15
				1	0	19.65	18.85	30	-11.15
	00005	4750 5		1	14	19.63	18.83	30	-11.17
	20385	1753.5	64QAM	8	4	18.70	17.90	30	-12.1
				15	0	18.66	17.86	30	-12.14

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SGS Taiwan Ltd.

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Antenna	gain (dBi)	-0.8							
			LTE Band 4_Up	link 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	21.87	21.07	30	-8.93
	10075	1710 5		1	24	21.85	21.05	30	-8.95
	19975	1712.5	QPSK	12	6	20.62	19.82	30	-10.18
				25	0	20.70	19.90	30	-10.1
				1	0	20.65	19.85	30	-10.15
F	00175	1720 5		1	24	20.70	19.90	30	-10.1
5	20175	1732.5	QPSK	12	6	19.68	18.88	30	-11.12
				25	0	19.71	18.91	30	-11.09
				1	0	19.67	18.87	30	-11.13
	00075	4750 5	ODOK	1	24	19.62	18.82	30	-11.18
	20375	1752.5	QPSK	12	6	18.64	17.84	30	-12.16
				25	0	18.71	17.91	30	-12.09
				1	0	21.82	21.02	30	-8.98
	19975	1712.5	16QAM	1	24	21.84	21.04	30	-8.96
				12	6	20.63	19.83	30	-10.17
				25	0	20.64	19.84	30	-10.16
				1	0	20.69	19.89	30	-10.11
F	00175	1720 5	160414	1	24	20.66	19.86	30	-10.14
5	20175	1732.5	16QAM	12	6	19.67	18.87	30	-11.13
				25	0	19.65	18.85	30	-11.15
				1	0	19.64	18.84	30	-11.16
	20375	1752.5	16QAM	1	24	19.71	18.91	30	-11.09
	20375	1752.5	TOQAM	12	6	18.63	17.83	30	-12.17
				25	0	18.61	17.81	30	-12.19
				1	0	21.81	21.01	30	-8.99
	10075	1710 5	64QAM	1	24	21.82	21.02	30	-8.98
	19975	1712.5	04QAIVI	12	6	20.67	19.87	30	-10.13
				25	0	20.69	19.89	30	-10.11
				1	0	20.61	19.81	30	-10.19
F	5 20175	1732.5	6404M	1	24	20.61	19.81	30	-10.19
5	20175	1132.3	64QAM	12	6	19.63	18.83	30	-11.17
				25	0	19.70	18.90	30	-11.1
				1	0	19.63	18.83	30	-11.17
	20375	1752.5	64QAM	1	24	19.69	18.89	30	-11.11
	20375	1752.5	04QAIVI	12	6	18.69	17.89	30	-12.11
				25	0	18.62	17.82	30	-12.18

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Antenna	gain (dBi)	-0.8							
			LTE Band 4_Up	link 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	21.87	21.07	30	-8.93
	20000	1715	QPSK	1	49	21.81	21.01	30	-8.99
	20000	1715	QFSK	25	12	20.70	19.90	30	-10.1
				50	0	20.63	19.83	30	-10.17
				1	0	20.69	19.89	30	-10.11
10	20175	1732.5	QPSK	1	49	20.66	19.86	30	-10.14
10	20175	1702.0	GION	25	12	19.64	18.84	30	-11.16
				50	0	19.65	18.85	30	-11.15
				1	0	19.66	18.86	30	-11.14
	20350	1750	QPSK	1	49	19.61	18.81	30	-11.19
	20000	20350 1750		25	12	18.70	17.90	30	-12.1
				50	0	18.65	17.85	30	-12.15
				1	0	21.82	21.02	30	-8.98
	20000	1715	16QAM	1	49	21.81	21.01	30	-8.99
				25	12	20.63	19.83	30	-10.17
				50	0	20.66	19.86	30	-10.14
				1	0	20.61	19.81	30	-10.19
10	20175	1732.5	16QAM	1	49	20.71	19.91	30	-10.09
10	20175	1752.5	TOQAW	25	12	19.68	18.88	30	-11.12
				50	0	19.70	18.90	30	-11.1
				1	0	19.65	18.85	30	-11.15
	20350	1750	16QAM	1	49	19.69	18.89	30	-11.11
	20330	1750	TOQAW	25	12	18.63	17.83	30	-12.17
				50	0	18.68	17.88	30	-12.12
				1	0	21.91	21.11	30	-8.89
	20000	1715	64QAM	1	49	21.86	21.06	30	-8.94
	20000	1715	04QAW	25	12	20.64	19.84	30	-10.16
				50	0	20.69	19.89	30	-10.11
				1	0	20.70	19.90	30	-10.1
10	10 20175 1732.5	1732.5	64QAM	1	49	20.66	19.86	30	-10.14
10		1132.3		25	12	19.64	18.84	30	-11.16
				50	0	19.62	18.82	30	-11.18
				1	0	19.62	18.82	30	-11.18
	20350	1750	64QAM	1	49	19.66	18.86	30	-11.14
	20300	1750		25	12	18.67	17.87	30	-12.13
				50	0	18.70	17.90	30	-12.1

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Antenna	gain (dBi)	-0.8							
			LTE Band 4_Up	link 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	21.86	21.06	30	-8.94
	20025	1717 E	QPSK	1	74	21.82	21.02	30	-8.98
	20025	1717.5	QPSK	36	18	20.68	19.88	30	-10.12
				75	0	20.68	19.88	30	-10.12
				1	0	20.69	19.89	30	-10.11
15	20175	1732.5	QPSK	1	74	20.68	19.88	30	-10.12
15	20175	1752.5	QFON	36	18	19.69	18.89	30	-11.11
				75	0	19.65	18.85	30	-11.15
				1	0	19.66	18.86	30	-11.14
	20325	1747.5	QPSK	1	74	19.68	18.88	30	-11.12
	20325	1747.5	QFSN	36	18	18.67	17.87	30	-12.13
				75	0	18.65	17.85	30	-12.15
				1	0	21.90	21.10	30	-8.9
	20025	1717.5	16QAM	1	74	21.91	21.11	30	-8.89
	20025			36	18	20.68	19.88	30	-10.12
				75	0	20.66	19.86	30	-10.14
				1	0	20.63	19.83	30	-10.17
15	20175	1732.5	16QAM	1	74	20.64	19.84	30	-10.16
15	20175	1752.5	TOQAW	36	18	19.67	18.87	30	-11.13
				75	0	19.65	18.85	30	-11.15
				1	0	19.69	18.89	30	-11.11
	20325	1747.5	16QAM	1	74	19.71	18.91	30	-11.09
	20325	1747.5	TOQAIVI	36	18	18.69	17.89	30	-12.11
				75	0	18.62	17.82	30	-12.18
				1	0	21.82	21.02	30	-8.98
	20025	1717.5	64QAM	1	74	21.83	21.03	30	-8.97
	20025	G.1111	04QAW	36	18	20.67	19.87	30	-10.13
				75	0	20.67	19.87	30	-10.13
				1	0	20.70	19.90	30	-10.1
15	15 00175	1732.5	64QAM	1	74	20.67	19.87	30	-10.13
15	20175	1132.3	04QAIVI	36	18	19.67	18.87	30	-11.13
				75	0	19.64	18.84	30	-11.16
				1	0	19.66	18.86	30	-11.14
	20225	17/7 5	64QAM	1	74	19.70	18.90	30	-11.1
	20325	1747.5		36	18	18.65	17.85	30	-12.15
				75	0	18.67	17.87	30	-12.13

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Antenna	gain (dBi)	-0.8							
			LTE Band 4_Up	link 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	21.91	21.11	30	-8.89
	20050	1720	ODOK	1	99	21.89	21.09	30	-8.91
	20050	1720	QPSK	50	25	20.71	19.91	30	-10.09
				100	0	20.68	19.88	30	-10.12
				1	0	20.63	19.83	30	-10.17
20	00175	1720 5		1	99	20.63	19.83	30	-10.17
20	20175	1732.5	QPSK	50	25	19.67	18.87	30	-11.13
				100	0	19.61	18.81	30	-11.19
				1	0	19.67	18.87	30	-11.13
	20200	1745		1	99	19.71	18.91	30	-11.09
	20300 1745		QPSK	50	25	18.66	17.86	30	-12.14
				100	0	18.62	17.82	30	-12.18
				1	0	21.89	21.09	30	-8.91
	20050	1720	16QAM	1	99	21.88	21.08	30	-8.92
	20050			50	25	20.64	19.84	30	-10.16
				100	0	20.66	19.86	30	-10.14
				1	0	20.64	19.84	30	-10.16
20	00175	1720 5	160414	1	99	20.65	19.85	30	-10.15
20	20175	1732.5	16QAM	50	25	19.69	18.89	30	-11.11
				100	0	19.67	18.87	30	-11.13
				1	0	19.61	18.81	30	-11.19
	20300	1745	16QAM	1	99	19.71	18.91	30	-11.09
	20300	1745	TOQAM	50	25	18.70	17.90	30	-12.1
				100	0	18.64	17.84	30	-12.16
				1	0	21.95	21.15	30	-8.85
	20050	1700	640414	1	99	21.86	21.06	30	-8.94
	20050	1720	64QAM	50	25	20.68	19.88	30	-10.12
				100	0	20.66	19.86	30	-10.14
				1	0	20.66	19.86	30	-10.14
20	20175	1720 5	6404M	1	99	20.62	19.82	30	-10.18
20	20175	1732.5	64QAM	50	25	19.71	18.91	30	-11.09
				100	0	19.71	18.91	30	-11.09
				1	0	19.67	18.87	30	-11.13
	20300	1745	64QAM	1	99	19.62	18.82	30	-11.18
	20300	1740	04QAIVI	50	25	18.69	17.89	30	-12.11
				100	0	18.63	17.83	30	-12.17

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Antenna	gain (dBi)	0.3								
			LTE Ba	nd 5_Up	link frequ	ency band:824	4 to 849 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	22.81	20.96	23.11	38.45	-17.49
	20407	824.7	QPSK	1	5	22.78	20.93	23.08	38.45	-17.52
	20407	024.7	QFOR	3	2	22.88	21.03	23.18	38.45	-17.42
				6	0	21.65	19.80	21.95	38.45	-18.65
				1	0	21.72	19.87	22.02	38.45	-18.58
1.4	20525	836.5	QPSK	1	5	21.82	19.97	22.12	38.45	-18.48
1.4	20325	000.0	QION	3	2	21.87	20.02	22.17	38.45	-18.43
				6	0	20.85	19.00	21.15	38.45	-19.45
				1	0	20.66	18.81	20.96	38.45	-19.64
	20643	848.3	QPSK	1	5	20.80	18.95	21.10	38.45	-19.50
	20043	040.5	QION	3	2	20.85	19.00	21.15	38.45	-19.45
				6	0	19.86	18.01	20.16	38.45	-20.44
				1	0	22.82	20.97	23.12	38.45	-17.48
20407	824.7	160414	1	5	22.71	20.86	23.01	38.45	-17.59	
	20407	824.7	16QAM	3	2	22.80	20.95	23.10	38.45	-17.50
				6	0	21.63	19.78	21.93	38.45	-18.67
				1	0	21.87	20.02	22.17	38.45	-18.43
1.4	20525	836.5	16QAM	1	5	21.85	20.00	22.15	38.45	-18.45
1.4	20525	030.5	IOQAIVI	3	2	21.79	19.94	22.09	38.45	-18.51
				6	0	20.72	18.87	21.02	38.45	-19.58
				1	0	20.62	18.77	20.92	38.45	-19.68
	20643	848.3	16QAM	1	5	20.63	18.78	20.93	38.45	-19.67
	20643	040.3	IOQAIVI	3	2	20.88	19.03	21.18	38.45	-19.42
				6	0	19.74	17.89	20.04	38.45	-20.56
				1	0	22.86	21.01	23.16	38.45	-17.44
	00407	004.7	C404M	1	5	22.88	21.03	23.18	38.45	-17.42
	20407	824.7	64QAM	3	2	22.75	20.90	23.05	38.45	-17.55
				6	0	21.75	19.90	22.05	38.45	-18.55
				1	0	21.67	19.82	21.97	38.45	-18.63
1 4	1.4 00505	026 E	640444	1	5	21.80	19.95	22.10	38.45	-18.50
1.4 20525	836.5	64QAM	3	2	21.68	19.83	21.98	38.45	-18.62	
				6	0	20.68	18.83	20.98	38.45	-19.62
				1	0	20.70	18.85	21.00	38.45	-19.60
	00040	040.0	640414	1	5	20.67	18.82	20.97	38.45	-19.63
	20643	848.3	64QAM	3	2	20.84	18.99	21.14	38.45	-19.46
				6	0	19.75	17.90	20.05	38.45	-20.55

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### Report No.: TERF2204000399E2 Page: 34 of 237

Antenna	gain (dBi)	0.3								
			LTE Ba	nd 5_Up	link frequ	ency band:82	4 to 849 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	22.61	20.76	22.91	38.45	-17.69
	20415	825.5	QPSK	1	14	22.67	20.82	22.97	38.45	-17.63
	20415	025.5	Qron	8	4	21.63	19.78	21.93	38.45	-18.67
				15	0	21.70	19.85	22.00	38.45	-18.60
				1	0	21.79	19.94	22.09	38.45	-18.51
3	20525	836.5	QPSK	1	14	21.81	19.96	22.11	38.45	-18.49
5	20525	030.5	QFSN	8	4	20.63	18.78	20.93	38.45	-19.67
				15	0	20.87	19.02	21.17	38.45	-19.43
				1	0	20.66	18.81	20.96	38.45	-19.64
	20635	847.5	QPSK	1	14	20.85	19.00	21.15	38.45	-19.45
	20035	047.5	QPSK	8	4	19.86	18.01	20.16	38.45	-20.44
				15	0	19.66	17.81	19.96	38.45	-20.64
				1	0	22.66	20.81	22.96	38.45	-17.64
	20415	825.5	100414	1	14	22.78	20.93	23.08	38.45	-17.52
			16QAM	8	4	21.78	19.93	22.08	38.45	-18.52
				15	0	21.70	19.85	22.00	38.45	-18.60
				1	0	21.83	19.98	22.13	38.45	-18.47
2	00505	000 F	400414	1	14	21.77	19.92	22.07	38.45	-18.53
3	20525	836.5	16QAM	8	4	20.71	18.86	21.01	38.45	-19.59
				15	0	20.88	19.03	21.18	38.45	-19.42
				1	0	20.67	18.82	20.97	38.45	-19.63
	00005	047.5	400414	1	14	20.64	18.79	20.94	38.45	-19.66
	20635	847.5	16QAM	8	4	19.74	17.89	20.04	38.45	-20.56
				15	0	19.64	17.79	19.94	38.45	-20.66
				1	0	22.70	20.85	23.00	38.45	-17.60
	00445	005 5	640414	1	14	22.72	20.87	23.02	38.45	-17.58
	20415	825.5	64QAM	8	4	21.64	19.79	21.94	38.45	-18.66
				15	0	21.65	19.80	21.95	38.45	-18.65
				1	0	21.63	19.78	21.93	38.45	-18.67
3 20525	836.5	640444	1	14	21.74	19.89	22.04	38.45	-18.56	
	20020	030.0	64QAM	8	4	20.71	18.86	21.01	38.45	-19.59
				15	0	20.82	18.97	21.12	38.45	-19.48
				1	0	20.72	18.87	21.02	38.45	-19.58
	20625	0475	640444	1	14	20.82	18.97	21.12	38.45	-19.48
	20635	847.5	64QAM	8	4	19.68	17.83	19.98	38.45	-20.62
				15	0	19.81	17.96	20.11	38.45	-20.49

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### Report No.: TERF2204000399E2 Page: 35 of 237

Antenna	gain (dBi)	0.3								
			LTE Ba	nd 5_Upl	link frequ	ency band:824	4 to 849 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	22.78	20.93	23.08	38.45	-17.52
	20425	826.5	QPSK	1	24	22.62	20.77	22.92	38.45	-17.68
	20425	020.0	Qron	12	6	21.83	19.98	22.13	38.45	-18.47
				25	0	21.64	19.79	21.94	38.45	-18.66
				1	0	21.60	19.75	21.90	38.45	-18.70
5	20525	836.5	QPSK	1	24	21.78	19.93	22.08	38.45	-18.52
5	20525	030.5	QFSN	12	6	20.90	19.05	21.20	38.45	-19.40
				25	0	20.90	19.05	21.20	38.45	-19.40
				1	0	20.68	18.83	20.98	38.45	-19.62
	20625	846.5	QPSK	1	24	20.64	18.79	20.94	38.45	-19.66
	20025	040.0	Qron	12	6	19.67	17.82	19.97	38.45	-20.63
				25	0	19.84	17.99	20.14	38.45	-20.46
				1	0	22.62	20.77	22.92	38.45	-17.68
	20425	826.5	100414	1	24	22.66	20.81	22.96	38.45	-17.64
	20425		16QAM	12	6	21.82	19.97	22.12	38.45	-18.48
				25	0	21.64	19.79	21.94	38.45	-18.66
				1	0	21.79	19.94	22.09	38.45	-18.51
5	20525	836.5	16QAM	1	24	21.79	19.94	22.09	38.45	-18.51
Э	20525	630.D	IOQAIVI	12	6	20.82	18.97	21.12	38.45	-19.48
				25	0	20.72	18.87	21.02	38.45	-19.58
				1	0	20.68	18.83	20.98	38.45	-19.62
	20625	846.5	16QAM	1	24	20.74	18.89	21.04	38.45	-19.56
	20025	040.0	IOQAIVI	12	6	19.84	17.99	20.14	38.45	-20.46
				25	0	19.81	17.96	20.11	38.45	-20.49
				1	0	22.78	20.93	23.08	38.45	-17.52
	20425	826.5	64QAM	1	24	22.82	20.97	23.12	38.45	-17.48
	20425	020.5	04QAW	12	6	21.76	19.91	22.06	38.45	-18.54
				25	0	21.88	20.03	22.18	38.45	-18.42
				1	0	21.86	20.01	22.16	38.45	-18.44
5	5 20525	836.5	64QAM	1	24	21.63	19.78	21.93	38.45	-18.67
Э		030.3	04QAIVI	12	6	20.82	18.97	21.12	38.45	-19.48
				25	0	20.62	18.77	20.92	38.45	-19.68
				1	0	20.80	18.95	21.10	38.45	-19.50
	20625	846.5	64QAM	1	24	20.87	19.02	21.17	38.45	-19.43
	20020	040.0	04QAIVI	12	6	19.67	17.82	19.97	38.45	-20.63
				25	0	19.65	17.80	19.95	38.45	-20.65

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### Report No.: TERF2204000399E2 Page: 36 of 237

Antenna gain (dBi)		0.3								
			LTE Ba	nd 5_Up	link frequ	ency band : 82	4 to 849 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)
10	20450	829	QPSK	1	0	22.99	21.14	23.29	38.45	-17.31
				1	49	22.89	21.04	23.19	38.45	-17.41
				25	12	21.91	20.06	22.21	38.45	-18.39
				50	0	21.99	20.14	22.29	38.45	-18.31
	20525	836.5	QPSK	1	0	21.78	19.93	22.08	38.45	-18.52
				1	49	21.64	19.79	21.94	38.45	-18.66
				25	12	20.82	18.97	21.12	38.45	-19.48
				50	0	20.89	19.04	21.19	38.45	-19.41
	20600	844	QPSK	1	0	20.79	18.94	21.09	38.45	-19.51
				1	49	20.62	18.77	20.92	38.45	-19.68
				25	12	19.70	17.85	20.00	38.45	-20.60
				50	0	19.72	17.87	20.02	38.45	-20.58
10	20450	829	16QAM	1	0	22.95	21.10	23.25	38.45	-17.35
				1	49	22.85	21.00	23.15	38.45	-17.45
				25	12	21.86	20.01	22.16	38.45	-18.44
				50	0	21.91	20.06	22.21	38.45	-18.39
	20525	836.5	16QAM	1	0	21.70	19.85	22.00	38.45	-18.60
				1	49	21.65	19.80	21.95	38.45	-18.65
				25	12	20.67	18.82	20.97	38.45	-19.63
				50	0	20.85	19.00	21.15	38.45	-19.45
	20600	844	16QAM	1	0	20.77	18.92	21.07	38.45	-19.53
				1	49	20.72	18.87	21.02	38.45	-19.58
				25	12	19.64	17.79	19.94	38.45	-20.66
				50	0	19.72	17.87	20.02	38.45	-20.58
10	20450	829	64QAM	1	0	22.91	21.06	23.21	38.45	-17.39
				1	49	22.71	20.86	23.01	38.45	-17.59
				25	12	21.76	19.91	22.06	38.45	-18.54
				50	0	21.74	19.89	22.04	38.45	-18.56
	20525	836.5	64QAM	1	0	21.72	19.87	22.02	38.45	-18.58
				1	49	21.85	20.00	22.15	38.45	-18.45
				25	12	20.72	18.87	21.02	38.45	-19.58
				50	0	20.79	18.94	21.09	38.45	-19.51
	20600	844	64QAM	1	0	20.65	18.80	20.95	38.45	-19.65
				1	49	20.67	18.82	20.97	38.45	-19.63
				25	12	19.74	17.89	20.04	38.45	-20.56
				50	0	19.66	17.81	19.96	38.45	-20.64

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### Report No.: TERF2204000399E2 Page: 37 of 237

Antenna	gain (dBi)	-1.1								
			LTE Bai	nd 12_Up	olink frequ	ency 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	22.44	19.19	21.34	34.77	-15.58
	23017	699.7	QPSK	1	5	22.56	19.31	21.46	34.77	-15.46
	23017	099.7	QPSK	3	2	22.40	19.15	21.30	34.77	-15.62
				6	0	21.47	18.22	20.37	34.77	-16.55
				1	0	21.59	18.34	20.49	34.77	-16.43
1.4	23095	707.5	QPSK	1	5	21.48	18.23	20.38	34.77	-16.54
1.4	23095	101.5	QPSK	3	2	21.44	18.19	20.34	34.77	-16.58
				6	0	20.45	17.20	19.35	34.77	-17.57
				1	0	20.55	17.30	19.45	34.77	-17.47
	23173	715.5	QPSK	1	5	20.56	17.31	19.46	34.77	-17.46
	23173	715.5	QPSK	3	2	20.45	17.20	19.35	34.77	-17.57
				6	0	19.50	16.25	18.40	34.77	-18.52
				1	0	22.54	19.29	21.44	34.77	-15.48
	00047	000 7	400414	1	5	22.55	19.30	21.45	34.77	-15.47
	23017	699.7	16QAM	3	2	22.60	19.35	21.50	34.77	-15.42
				6	0	21.59	18.34	20.49	34.77	-16.43
				1	0	21.51	18.26	20.41	34.77	-16.51
	00005	707 5	400414	1	5	21.43	18.18	20.33	34.77	-16.59
1.4	23095	707.5	16QAM	3	2	21.45	18.20	20.35	34.77	-16.57
				6	0	20.43	17.18	19.33	34.77	-17.59
				1	0	20.47	17.22	19.37	34.77	-17.55
	00470	745 5	400.004	1	5	20.48	17.23	19.38	34.77	-17.54
	23173	715.5	16QAM	3	2	20.58	17.33	19.48	34.77	-17.44
				6	0	19.45	16.20	18.35	34.77	-18.57
				1	0	22.43	19.18	21.33	34.77	-15.59
	00047	000 7		1	5	22.52	19.27	21.42	34.77	-15.50
	23017	699.7	64QAM	3	2	22.56	19.31	21.46	34.77	-15.46
				6	0	21.56	18.31	20.46	34.77	-16.46
				1	0	21.56	18.31	20.46	34.77	-16.46
	02005	707 5	640444	1	5	21.49	18.24	20.39	34.77	-16.53
1.4	23095	707.5	64QAM	3	2	21.56	18.31	20.46	34.77	-16.46
				6	0	20.56	17.31	19.46	34.77	-17.46
				1	0	20.49	17.24	19.39	34.77	-17.53
	02472	745 5	640414	1	5	20.47	17.22	19.37	34.77	-17.55
	23173	715.5	64QAM	3	2	20.49	17.24	19.39	34.77	-17.53
				6	0	19.50	16.25	18.40	34.77	-18.52

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台灣檢驗科技股份有限公司



### Report No.: TERF2204000399E2 Page: 38 of 237

Antenna	gain (dBi)	-1.1								
			LTE Bai	nd 12_Up	link frequ	ency 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	22.48	19.23	21.38	34.77	-15.54
	23025	700.5	QPSK	1	14	22.57	19.32	21.47	34.77	-15.45
	23025	700.5	Qron	8	4	21.43	18.18	20.33	34.77	-16.59
				15	0	21.50	18.25	20.40	34.77	-16.52
				1	0	21.54	18.29	20.44	34.77	-16.48
3	23095	707.5	QPSK	1	14	21.48	18.23	20.38	34.77	-16.54
3	23095	101.5	QFSN	8	4	20.52	17.27	19.42	34.77	-17.50
				15	0	20.41	17.16	19.31	34.77	-17.61
				1	0	20.58	17.33	19.48	34.77	-17.44
	23165	714.5	QPSK	1	14	20.59	17.34	19.49	34.77	-17.43
	23105	7 14.5	QPSK	8	4	19.43	16.18	18.33	34.77	-18.59
				15	0	19.40	16.15	18.30	34.77	-18.62
				1	0	22.55	19.30	21.45	34.77	-15.47
	02025	700 F	100414	1	14	22.40	19.15	21.30	34.77	-15.62
	23025	700.5	16QAM	8	4	21.56	18.31	20.46	34.77	-16.46
				15	0	21.53	18.28	20.43	34.77	-16.49
				1	0	21.44	18.19	20.34	34.77	-16.58
2	02005	707 E	100414	1	14	21.59	18.34	20.49	34.77	-16.43
3	23095	707.5	16QAM	8	4	20.42	17.17	19.32	34.77	-17.60
				15	0	20.58	17.33	19.48	34.77	-17.44
				1	0	20.47	17.22	19.37	34.77	-17.55
	23165	714.5	100414	1	14	20.54	17.29	19.44	34.77	-17.48
	23105	/ 14.5	16QAM	8	4	19.57	16.32	18.47	34.77	-18.45
				15	0	19.55	16.30	18.45	34.77	-18.47
				1	0	22.60	19.35	21.50	34.77	-15.42
	23025	700 F	640414	1	14	22.56	19.31	21.46	34.77	-15.46
	23025	700.5	64QAM	8	4	21.49	18.24	20.39	34.77	-16.53
				15	0	21.48	18.23	20.38	34.77	-16.54
				1	0	21.44	18.19	20.34	34.77	-16.58
2	22005	707.5	64000	1	14	21.59	18.34	20.49	34.77	-16.43
3	23095	101.5	64QAM	8	4	20.49	17.24	19.39	34.77	-17.53
				15	0	20.55	17.30	19.45	34.77	-17.47
				1	0	20.44	17.19	19.34	34.77	-17.58
	00165	714 5	640014	1	14	20.56	17.31	19.46	34.77	-17.46
	23165	714.5	64QAM	8	4	19.45	16.20	18.35	34.77	-18.57
				15	0	19.58	16.33	18.48	34.77	-18.44

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### Report No.: TERF2204000399E2 Page: 39 of 237

Antenna	gain (dBi)	-1.1								
			LTE Bai	nd 12_Up	link frequ	ency 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	22.60	19.35	21.50	34.77	-15.42
	23035	701.5	QPSK	1	24	22.50	19.25	21.40	34.77	-15.52
	20000	701.5	QION	12	6	21.55	18.30	20.45	34.77	-16.47
				25	0	21.45	18.20	20.35	34.77	-16.57
				1	0	21.44	18.19	20.34	34.77	-16.58
5	23095	707.5	QPSK	1	24	21.54	18.29	20.44	34.77	-16.48
5	23095	101.5	QFSN	12	6	20.52	17.27	19.42	34.77	-17.50
				25	0	20.49	17.24	19.39	34.77	-17.53
				1	0	20.45	17.20	19.35	34.77	-17.57
	23155	713.5	QPSK	1	24	20.54	17.29	19.44	34.77	-17.48
	23155	/13.5	QPSK	12	6	19.50	16.25	18.40	34.77	-18.52
				25	0	19.49	16.24	18.39	34.77	-18.53
				1	0	22.57	19.32	21.47	34.77	-15.45
	00005	704 5	400414	1	24	22.59	19.34	21.49	34.77	-15.43
	23035	701.5	16QAM	12	6	21.51	18.26	20.41	34.77	-16.51
				25	0	21.45	18.20	20.35	34.77	-16.57
				1	0	21.50	18.25	20.40	34.77	-16.52
F	00005	707 F	100414	1	24	21.58	18.33	20.48	34.77	-16.44
5	23095	707.5	16QAM	12	6	20.46	17.21	19.36	34.77	-17.56
				25	0	20.56	17.31	19.46	34.77	-17.46
				1	0	20.49	17.24	19.39	34.77	-17.53
	00455	710 5	100414	1	24	20.55	17.30	19.45	34.77	-17.47
	23155	713.5	16QAM	12	6	19.42	16.17	18.32	34.77	-18.60
				25	0	19.54	16.29	18.44	34.77	-18.48
				1	0	22.50	19.25	21.40	34.77	-15.52
	00005	704 5	640414	1	24	22.52	19.27	21.42	34.77	-15.50
	23035	701.5	64QAM	12	6	21.57	18.32	20.47	34.77	-16.45
				25	0	21.56	18.31	20.46	34.77	-16.46
				1	0	21.55	18.30	20.45	34.77	-16.47
-	02005	707 E	640414	1	24	21.51	18.26	20.41	34.77	-16.51
5	23095	707.5	64QAM	12	6	20.46	17.21	19.36	34.77	-17.56
				25	0	20.51	17.26	19.41	34.77	-17.51
				1	0	20.53	17.28	19.43	34.77	-17.49
	00455	710 5	640414	1	24	20.55	17.30	19.45	34.77	-17.47
	23155	713.5	64QAM	12	6	19.42	16.17	18.32	34.77	-18.60
				25	0	19.59	16.34	18.49	34.77	-18.43

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### Report No.: TERF2204000399E2 Page: 40 of 237

Antenna	gain (dBi)	-1.1								
			LTE Ba	nd 12_Up	link frequ	iency 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	22.63	19.38	21.53	34.77	-15.39
	23060	704	QPSK	1	49	22.57	19.32	21.47	34.77	-15.45
	23060	704	Qron	25	12	21.48	18.23	20.38	34.77	-16.54
				50	0	21.59	18.34	20.49	34.77	-16.43
				1	0	21.83	18.58	20.73	34.77	-16.19
10	23095	707.5	QPSK	1	49	21.78	18.53	20.68	34.77	-16.24
10	23095	101.5	QFSN	25	12	20.64	17.39	19.54	34.77	-17.38
				50	0	20.61	17.36	19.51	34.77	-17.41
				1	0	20.42	17.17	19.32	34.77	-17.60
	23130	711	QPSK	1	49	20.43	17.18	19.33	34.77	-17.59
	23130	711	Qron	25	12	19.53	16.28	18.43	34.77	-18.49
				50	0	19.60	16.35	18.50	34.77	-18.42
				1	0	22.72	19.47	21.62	34.77	-15.30
	22060	704	100414	1	49	22.61	19.36	21.51	34.77	-15.41
	23060	704	16QAM	25	12	21.50	18.25	20.40	34.77	-16.52
				50	0	21.66	18.41	20.56	34.77	-16.36
				1	0	21.82	18.57	20.72	34.77	-16.20
10	00005	707 F	100414	1	49	21.74	18.49	20.64	34.77	-16.28
10	23095	707.5	16QAM	25	12	20.54	17.29	19.44	34.77	-17.48
				50	0	20.61	17.36	19.51	34.77	-17.41
				1	0	20.53	17.28	19.43	34.77	-17.49
	23130	711	100414	1	49	20.48	17.23	19.38	34.77	-17.54
	23130	(11	16QAM	25	12	19.58	16.33	18.48	34.77	-18.44
				50	0	19.55	16.30	18.45	34.77	-18.47
				1	0	22.65	19.40	21.55	34.77	-15.37
	22060	704	640414	1	49	22.61	19.36	21.51	34.77	-15.41
	23060	704	64QAM	25	12	21.54	18.29	20.44	34.77	-16.48
				50	0	21.45	18.20	20.35	34.77	-16.57
				1	0	21.87	18.62	20.77	34.77	-16.15
10	22005	707 5	64004	1	49	21.70	18.45	20.60	34.77	-16.32
IU	23095	707.5	64QAM	25	12	20.50	17.25	19.40	34.77	-17.52
				50	0	20.34	17.09	19.24	34.77	-17.68
				1	0	20.54	17.29	19.44	34.77	-17.48
	00100	711	6404M	1	49	20.44	17.19	19.34	34.77	-17.58
	23130	/	64QAM	25	12	19.47	16.22	18.37	34.77	-18.55
				50	0	19.48	16.23	18.38	34.77	-18.54

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SGS Taiwan Ltd.



### Report No.: TERF2204000399E2 Page: 41 of 237

Antenna	gain (dBi)	-1.1								
			LTE Ba	nd 17_Up	link frequ	ency 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	22.42	19.17	21.32	34.77	-15.60
	23755	706.5	QPSK	1	24	22.58	19.33	21.48	34.77	-15.44
	23755	700.5	QFSK	12	6	21.48	18.23	20.38	34.77	-16.54
				25	0	21.51	18.26	20.41	34.77	-16.51
				1	0	21.52	18.27	20.42	34.77	-16.50
5	23790	710	QPSK	1	24	21.58	18.33	20.48	34.77	-16.44
5	23790	710	QFSK	12	6	20.57	17.32	19.47	34.77	-17.45
				25	0	20.53	17.28	19.43	34.77	-17.49
				1	0	20.50	17.25	19.40	34.77	-17.52
	23825	713.5	QPSK	1	24	20.49	17.24	19.39	34.77	-17.53
	23025	715.5	QFSK	12	6	19.49	16.24	18.39	34.77	-18.53
				25	0	19.50	16.25	18.40	34.77	-18.52
				1	0	22.42	19.17	21.32	34.77	-15.60
	00755	706.5	160414	1	24	22.50	19.25	21.40	34.77	-15.52
	23755	700.5	16QAM	12	6	21.58	18.33	20.48	34.77	-16.44
				25	0	21.51	18.26	20.41	34.77	-16.51
				1	0	21.59	18.34	20.49	34.77	-16.43
5	23790	710	16QAM	1	24	21.51	18.26	20.41	34.77	-16.51
5	23790	710	TOQAIN	12	6	20.51	17.26	19.41	34.77	-17.51
				25	0	20.59	17.34	19.49	34.77	-17.43
				1	0	20.45	17.20	19.35	34.77	-17.57
	23825	713.5	16QAM	1	24	20.45	17.20	19.35	34.77	-17.57
	23020	/13.5	IOQAM	12	6	19.53	16.28	18.43	34.77	-18.49
				25	0	19.47	16.22	18.37	34.77	-18.55
				1	0	22.47	19.22	21.37	34.77	-15.55
	23755	706.5	64QAM	1	24	22.53	19.28	21.43	34.77	-15.49
	23755	700.5	04QAM	12	6	21.49	18.24	20.39	34.77	-16.53
				25	0	21.50	18.25	20.40	34.77	-16.52
				1	0	21.55	18.30	20.45	34.77	-16.47
5	23790	710	64QAM	1	24	21.60	18.35	20.50	34.77	-16.42
J	23/90	/10	04QAIVI	12	6	20.48	17.23	19.38	34.77	-17.54
				25	0	20.44	17.19	19.34	34.77	-17.58
				1	0	20.53	17.28	19.43	34.77	-17.49
	23825	713.5	64QAM	1	24	20.49	17.24	19.39	34.77	-17.53
	23023	713.5	040/101	12	6	19.53	16.28	18.43	34.77	-18.49
				25	0	19.46	16.21	18.36	34.77	-18.56

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### Report No.: TERF2204000399E2 Page: 42 of 237

Antenna	gain (dBi)	-1.1								
			LTE Ba	nd 17_Up	link frequ	ency 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	22.63	19.38	21.53	34.77	-15.39
	23780	709	QPSK	1	49	22.62	19.37	21.52	34.77	-15.40
	23760	709	QPSK	25	12	21.36	18.11	20.26	34.77	-16.66
				50	0	21.62	18.37	20.52	34.77	-16.40
				1	0	21.75	18.50	20.65	34.77	-16.27
10	23790	710	QPSK	1	49	21.97	18.72	20.87	34.77	-16.05
10	23790	710	QFSK	25	12	20.63	17.38	19.53	34.77	-17.39
				50	0	20.63	17.38	19.53	34.77	-17.39
				1	0	20.52	17.27	19.42	34.77	-17.50
	23800	711	QPSK	1	49	20.53	17.28	19.43	34.77	-17.49
	23600	/ 1 1	QFSK	25	12	19.53	16.28	18.43	34.77	-18.49
				50	0	19.49	16.24	18.39	34.77	-18.53
				1	0	22.68	19.43	21.58	34.77	-15.34
	00700	709	100414	1	49	22.58	19.33	21.48	34.77	-15.44
	23780	709	16QAM	25	12	21.52	18.27	20.42	34.77	-16.50
				50	0	21.49	18.24	20.39	34.77	-16.53
				1	0	21.85	18.60	20.75	34.77	-16.17
10	00700	710	100414	1	49	21.95	18.70	20.85	34.77	-16.07
10	23790	710	16QAM	25	12	20.53	17.28	19.43	34.77	-17.49
				50	0	20.49	17.24	19.39	34.77	-17.53
				1	0	20.52	17.27	19.42	34.77	-17.50
	23800	711	100414	1	49	20.53	17.28	19.43	34.77	-17.49
	23000	711	16QAM	25	12	19.43	16.18	18.33	34.77	-18.59
				50	0	19.50	16.25	18.40	34.77	-18.52
				1	0	22.65	19.40	21.55	34.77	-15.37
	00700	709	640414	1	49	22.60	19.35	21.50	34.77	-15.42
	23780	709	64QAM	25	12	21.53	18.28	20.43	34.77	-16.49
				50	0	21.42	18.17	20.32	34.77	-16.60
				1	0	21.85	18.60	20.75	34.77	-16.17
10	00700	710	64004	1	49	21.93	18.68	20.83	34.77	-16.09
10	23790	/10	64QAM	25	12	20.55	17.30	19.45	34.77	-17.47
				50	0	20.42	17.17	19.32	34.77	-17.60
				1	0	20.55	17.30	19.45	34.77	-17.47
	00000	744	640444	1	49	20.52	17.27	19.42	34.77	-17.50
	23800	711	64QAM	25	12	19.42	16.17	18.32	34.77	-18.60
				50	0	19.56	16.31	18.46	34.77	-18.46

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### Report No.: TERF2204000399E2 Page: 43 of 237

Antenna	gain (dBi)	0.2								
			LTE Ba	nd 26_Up	link frequ	ency band:82	4 to 849 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	22.73	20.78	22.93	38.45	-17.67
	06707	004 7	QPSK	1	5	22.81	20.86	23.01	38.45	-17.59
	26797	824.7	QPSK	3	2	22.76	20.81	22.96	38.45	-17.64
				6	0	21.68	19.73	21.88	38.45	-18.72
				1	0	21.61	19.66	21.81	38.45	-18.79
4.4	20015	000 F	ODOK	1	5	21.63	19.68	21.83	38.45	-18.77
1.4	26915	836.5	QPSK	3	2	21.85	19.90	22.05	38.45	-18.55
				6	0	20.82	18.87	21.02	38.45	-19.58
				1	0	20.87	18.92	21.07	38.45	-19.53
	07000	040.0	0001	1	5	20.75	18.80	20.95	38.45	-19.65
	27033	848.3	QPSK	3	2	20.88	18.93	21.08	38.45	-19.52
				6	0	19.60	17.65	19.80	38.45	-20.80
				1	0	22.68	20.73	22.88	38.45	-17.72
	00707	0047	400.004	1	5	22.89	20.94	23.09	38.45	-17.51
	26797	824.7	16QAM	3	2	22.66	20.71	22.86	38.45	-17.74
				6	0	21.84	19.89	22.04	38.45	-18.56
				1	0	21.84	19.89	22.04	38.45	-18.56
	00045	000 5	400.004	1	5	21.83	19.88	22.03	38.45	-18.57
1.4	26915	836.5	16QAM	3	2	21.83	19.88	22.03	38.45	-18.57
				6	0	20.77	18.82	20.97	38.45	-19.63
				1	0	20.65	18.70	20.85	38.45	-19.75
	07000		400.004	1	5	20.85	18.90	21.05	38.45	-19.55
	27033	848.3	16QAM	3	2	20.79	18.84	20.99	38.45	-19.61
				6	0	19.76	17.81	19.96	38.45	-20.64
				1	0	22.77	20.82	22.97	38.45	-17.63
	00707	0017		1	5	22.85	20.90	23.05	38.45	-17.55
	26797	824.7	64QAM	3	2	22.83	20.88	23.03	38.45	-17.57
				6	0	21.68	19.73	21.88	38.45	-18.72
				1	0	21.83	19.88	22.03	38.45	-18.57
	00045	000 5		1	5	21.79	19.84	21.99	38.45	-18.61
1.4	26915	836.5	64QAM	3	2	21.75	19.80	21.95	38.45	-18.65
				6	0	20.82	18.87	21.02	38.45	-19.58
				1	0	20.81	18.86	21.01	38.45	-19.59
	07000	040.0		1	5	20.77	18.82	20.97	38.45	-19.63
	27033	848.3	64QAM	3	2	20.73	18.78	20.93	38.45	-19.67
				6	0	19.87	17.92	20.07	38.45	-20.53

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### Report No.: TERF2204000399E2 Page: 44 of 237

Antenna	gain (dBi)	0.2								
			LTE Bai	nd 26_Up	link frequ	ency band : 82	24 to 849 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	22.62	20.67	22.82	38.45	-17.78
	26805	825.5	QPSK	1	14	22.70	20.75	22.90	38.45	-17.70
	20000	025.5	Qron	8	4	21.62	19.67	21.82	38.45	-18.78
				15	0	21.60	19.65	21.80	38.45	-18.80
				1	0	21.69	19.74	21.89	38.45	-18.71
3	26915	836.5	QPSK	1	14	21.80	19.85	22.00	38.45	-18.60
5	20915	030.5	QFSN	8	4	20.86	18.91	21.06	38.45	-19.54
				15	0	20.79	18.84	20.99	38.45	-19.61
				1	0	20.88	18.93	21.08	38.45	-19.52
	27025	847.5	QPSK	1	14	20.73	18.78	20.93	38.45	-19.67
	27025	047.5	QPSK	8	4	19.83	17.88	20.03	38.45	-20.57
				15	0	19.63	17.68	19.83	38.45	-20.77
				1	0	22.69	20.74	22.89	38.45	-17.71
	06905	905 F	100414	1	14	22.69	20.74	22.89	38.45	-17.71
	26805	825.5	16QAM	8	4	21.71	19.76	21.91	38.45	-18.69
				15	0	21.60	19.65	21.80	38.45	-18.80
				1	0	21.71	19.76	21.91	38.45	-18.69
2	00045	000 F	400414	1	14	21.67	19.72	21.87	38.45	-18.73
3	26915	836.5	16QAM	8	4	20.68	18.73	20.88	38.45	-19.72
				15	0	20.72	18.77	20.92	38.45	-19.68
				1	0	20.63	18.68	20.83	38.45	-19.77
	07005	0.47.5	400414	1	14	20.81	18.86	21.01	38.45	-19.59
	27025	847.5	16QAM	8	4	19.82	17.87	20.02	38.45	-20.58
				15	0	19.66	17.71	19.86	38.45	-20.74
				1	0	22.75	20.80	22.95	38.45	-17.65
	00005	005 5	640414	1	14	22.74	20.79	22.94	38.45	-17.66
	26805	825.5	64QAM	8	4	21.64	19.69	21.84	38.45	-18.76
				15	0	21.71	19.76	21.91	38.45	-18.69
				1	0	21.61	19.66	21.81	38.45	-18.79
2	26045	000 F	640444	1	14	21.87	19.92	22.07	38.45	-18.53
3	26915	836.5	64QAM	8	4	20.73	18.78	20.93	38.45	-19.67
				15	0	20.61	18.66	20.81	38.45	-19.79
				1	0	20.77	18.82	20.97	38.45	-19.63
	07005	047 5	640414	1	14	20.67	18.72	20.87	38.45	-19.73
	27025	847.5	64QAM	8	4	19.79	17.84	19.99	38.45	-20.61
				15	0	19.86	17.91	20.06	38.45	-20.54

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### Report No.: TERF2204000399E2 Page: 45 of 237

Antenna	gain (dBi)	0.2								
			LTE Bai	nd 26_Up	link frequ	ency band : 82	24 to 849 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	22.82	20.87	23.02	38.45	-17.58
	26815	826.5	QPSK	1	24	22.62	20.67	22.82	38.45	-17.78
	20015	020.0	Qron	12	6	21.82	19.87	22.02	38.45	-18.58
				25	0	21.70	19.75	21.90	38.45	-18.70
				1	0	21.62	19.67	21.82	38.45	-18.78
5	26915	836.5	QPSK	1	24	21.90	19.95	22.10	38.45	-18.50
5	20915	030.5	QFSN	12	6	20.62	18.67	20.82	38.45	-19.78
				25	0	20.61	18.66	20.81	38.45	-19.79
				1	0	20.69	18.74	20.89	38.45	-19.71
	27015	846.5	QPSK	1	24	20.84	18.89	21.04	38.45	-19.56
	27015	040.0	QPSK	12	6	19.81	17.86	20.01	38.45	-20.59
				25	0	19.67	17.72	19.87	38.45	-20.73
				1	0	22.82	20.87	23.02	38.45	-17.58
	00045	000 F	400414	1	24	22.67	20.72	22.87	38.45	-17.73
	26815	826.5	16QAM	12	6	21.65	19.70	21.85	38.45	-18.75
				25	0	21.74	19.79	21.94	38.45	-18.66
				1	0	21.70	19.75	21.90	38.45	-18.70
-	00045	000 F	400414	1	24	21.85	19.90	22.05	38.45	-18.55
5	26915	836.5	16QAM	12	6	20.68	18.73	20.88	38.45	-19.72
				25	0	20.71	18.76	20.91	38.45	-19.69
				1	0	20.70	18.75	20.90	38.45	-19.70
	07045	040 5	400414	1	24	20.63	18.68	20.83	38.45	-19.77
	27015	846.5	16QAM	12	6	19.68	17.73	19.88	38.45	-20.72
				25	0	19.70	17.75	19.90	38.45	-20.70
				1	0	22.67	20.72	22.87	38.45	-17.73
	00045	000 5		1	24	22.81	20.86	23.01	38.45	-17.59
	26815	826.5	64QAM	12	6	21.83	19.88	22.03	38.45	-18.57
				25	0	21.82	19.87	22.02	38.45	-18.58
				1	0	21.76	19.81	21.96	38.45	-18.64
-	00045	000 F	640444	1	24	21.69	19.74	21.89	38.45	-18.71
5	26915	836.5	64QAM	12	6	20.73	18.78	20.93	38.45	-19.67
				25	0	20.63	18.68	20.83	38.45	-19.77
				1	0	20.79	18.84	20.99	38.45	-19.61
	07045	040 5	640444	1	24	20.89	18.94	21.09	38.45	-19.51
	27015	846.5	64QAM	12	6	19.69	17.74	19.89	38.45	-20.71
				25	0	19.90	17.95	20.10	38.45	-20.50

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### Report No.: TERF2204000399E2 Page: 46 of 237

Antenna	gain (dBi)	0.2								
			LTE Bai	nd 26_Up	link frequ	ency band:82	4 to 849 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	22.62	20.67	22.82	38.45	-17.78
	26840	829	QPSK	1	49	22.72	20.77	22.92	38.45	-17.68
	20040	029	QPSK	25	12	21.64	19.69	21.84	38.45	-18.76
				50	0	21.85	19.90	22.05	38.45	-18.55
				1	0	21.73	19.78	21.93	38.45	-18.67
10	26915	836.5	QPSK	1	49	21.77	19.82	21.97	38.45	-18.63
10	20915	030.5	QFSN	25	12	20.61	18.66	20.81	38.45	-19.79
				50	0	20.79	18.84	20.99	38.45	-19.61
				1	0	20.73	18.78	20.93	38.45	-19.67
	26990	844	QPSK	1	49	20.64	18.69	20.84	38.45	-19.76
	20990	044	QPSK	25	12	19.80	17.85	20.00	38.45	-20.60
				50	0	19.80	17.85	20.00	38.45	-20.60
				1	0	22.82	20.87	23.02	38.45	-17.58
	00040	000	400414	1	49	22.67	20.72	22.87	38.45	-17.73
	26840	829	16QAM	25	12	21.62	19.67	21.82	38.45	-18.78
				50	0	21.88	19.93	22.08	38.45	-18.52
				1	0	21.82	19.87	22.02	38.45	-18.58
10	00045	000 F	400414	1	49	21.89	19.94	22.09	38.45	-18.51
10	26915	836.5	16QAM	25	12	20.76	18.81	20.96	38.45	-19.64
				50	0	20.73	18.78	20.93	38.45	-19.67
				1	0	20.78	18.83	20.98	38.45	-19.62
	00000	044	400414	1	49	20.81	18.86	21.01	38.45	-19.59
	26990	844	16QAM	25	12	19.73	17.78	19.93	38.45	-20.67
				50	0	19.90	17.95	20.10	38.45	-20.50
				1	0	22.66	20.71	22.86	38.45	-17.74
	00040	000	640414	1	49	22.84	20.89	23.04	38.45	-17.56
	26840	829	64QAM	25	12	21.76	19.81	21.96	38.45	-18.64
				50	0	21.73	19.78	21.93	38.45	-18.67
				1	0	21.77	19.82	21.97	38.45	-18.63
10	00015	926 F	640414	1	49	21.87	19.92	22.07	38.45	-18.53
10	26915	836.5	64QAM	25	12	20.83	18.88	21.03	38.45	-19.57
				50	0	20.62	18.67	20.82	38.45	-19.78
				1	0	20.62	18.67	20.82	38.45	-19.78
	00000	044	640444	1	49	20.73	18.78	20.93	38.45	-19.67
	26990	844	64QAM	25	12	19.71	17.76	19.91	38.45	-20.69
				50	0	19.80	17.85	20.00	38.45	-20.60

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### Report No.: TERF2204000399E2 Page: 47 of 237

Antenna	gain (dBi)	0.2								
			LTE Bai	nd 26_Up	link frequ	ency band : 82	4 to 849 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	22.99	21.04	23.19	38.45	-17.41
	00005	001 5	QPSK	1	74	22.93	20.98	23.13	38.45	-17.47
	26865	831.5	QPSK	36	18	21.93	19.98	22.13	38.45	-18.47
				75	0	21.96	20.01	22.16	38.45	-18.44
				1	0	21.60	19.65	21.80	38.45	-18.80
15	00015	000 F	ODOK	1	74	21.64	19.69	21.84	38.45	-18.76
15	26915	836.5	QPSK	36	18	20.78	18.83	20.98	38.45	-19.62
				75	0	20.62	18.67	20.82	38.45	-19.78
				1	0	20.72	18.77	20.92	38.45	-19.68
	00005	044.5	0001	1	74	20.62	18.67	20.82	38.45	-19.78
	26965	841.5	QPSK	36	18	19.78	17.83	19.98	38.45	-20.62
				75	0	19.79	17.84	19.99	38.45	-20.61
				1	0	22.96	21.01	23.16	38.45	-17.44
	00005	004.5	400.004	1	74	22.76	20.81	22.96	38.45	-17.64
	26865	831.5	16QAM	36	18	21.91	19.96	22.11	38.45	-18.49
				75	0	21.91	19.96	22.11	38.45	-18.49
				1	0	21.78	19.83	21.98	38.45	-18.62
4-	00045	000 5	400.004	1	74	21.65	19.70	21.85	38.45	-18.75
15	26915	836.5	16QAM	36	18	20.77	18.82	20.97	38.45	-19.63
				75	0	20.70	18.75	20.90	38.45	-19.70
				1	0	20.85	18.90	21.05	38.45	-19.55
	00005	044.5	400.004	1	74	20.74	18.79	20.94	38.45	-19.66
	26965	841.5	16QAM	36	18	19.60	17.65	19.80	38.45	-20.80
				75	0	19.62	17.67	19.82	38.45	-20.78
				1	0	22.93	20.98	23.13	38.45	-17.47
	00005	004.5		1	74	22.62	20.67	22.82	38.45	-17.78
	26865	831.5	64QAM	36	18	21.80	19.85	22.00	38.45	-18.60
				75	0	21.76	19.81	21.96	38.45	-18.64
				1	0	21.88	19.93	22.08	38.45	-18.52
45	00045	000 5		1	74	21.81	19.86	22.01	38.45	-18.59
15	26915	836.5	64QAM	36	18	20.83	18.88	21.03	38.45	-19.57
				75	0	20.63	18.68	20.83	38.45	-19.77
				1	0	20.89	18.94	21.09	38.45	-19.51
	00005	044.5		1	74	20.72	18.77	20.92	38.45	-19.68
	26965	841.5	64QAM	36	18	19.89	17.94	20.09	38.45	-20.51
				75	0	19.65	17.70	19.85	38.45	-20.75

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### Report No.: TERF2204000399E2 Page: 48 of 237

Antenna	gain (dBi)	0.2								
			Part 90S_LT	E Band 2	6_Uplink	frequency band	d:814 to 824 M	Hz		
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	22.79	20.84	22.99	50	-29.16
	26697	814.7	QPSK	1	5	22.94	20.99	23.14	50	-29.01
	20097	014.7	Qron	3	2	22.84	20.89	23.04	50	-29.11
				6	0	21.46	19.51	21.66	50	-30.49
				1	0	21.42	19.47	21.62	50	-30.53
1.4	26740	819	QPSK	1	5	21.85	19.90	22.05	50	-30.10
1.4	20740	019	QFSN	3	2	21.96	20.01	22.16	50	-29.99
				6	0	20.94	18.99	21.14	50	-31.01
				1	0	20.71	18.76	20.91	50	-31.24
	26783	823.3	QPSK	1	5	20.89	18.94	21.09	50	-31.06
	20703	023.3	QFSN	3	2	20.95	19.00	21.15	50	-31.00
				6	0	19.43	17.48	19.63	50	-32.52
				1	0	22.67	20.72	22.87	50	-29.28
	06607	014 7	100414	1	5	22.70	20.75	22.90	50	-29.25
	26697	814.7	16QAM	3	2	22.72	20.77	22.92	50	-29.23
				6	0	21.67	19.72	21.87	50	-30.28
				1	0	22.06	20.11	22.26	50	-29.89
1.4	06740	819	100414	1	5	21.72	19.77	21.92	50	-30.23
1.4	26740	019	16QAM	3	2	21.70	19.75	21.90	50	-30.25
				6	0	20.89	18.94	21.09	50	-31.06
				1	0	20.69	18.74	20.89	50	-31.26
	26783	823.3	16QAM	1	5	21.06	19.11	21.26	50	-30.89
	20/03	023.3	TOQAIVI	3	2	20.95	19.00	21.15	50	-31.00
				6	0	19.70	17.75	19.90	50	-32.25
				1	0	22.88	20.93	23.08	50	-29.07
	26697	814.7	64QAM	1	5	22.76	20.81	22.96	50	-29.19
	20097	014.7	64QAIVI	3	2	22.74	20.79	22.94	50	-29.21
				6	0	21.69	19.74	21.89	50	-30.26
				1	0	21.64	19.69	21.84	50	-30.31
1.4	26740	910	6404M	1	5	21.95	20.00	22.15	50	-30.00
1.4	26740	819	64QAM	3	2	21.95	20.00	22.15	50	-30.00
				6	0	20.65	18.70	20.85	50	-31.30
				1	0	20.83	18.88	21.03	50	-31.12
	06700	000.0	640ANA	1	5	20.56	18.61	20.76	50	-31.39
	26783	823.3	64QAM	3	2	20.63	18.68	20.83	50	-31.32
				6	0	20.06	18.11	20.26	50	-31.89

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### Report No.: TERF2204000399E2 Page: 49 of 237

Antenna	gain (dBi)	0.2													
			Part 90S_LT	E Band 2	6_Uplink	frequency band	d:814 to 824 M	Hz							
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	22.67	20.72	22.87	50	-29.28					
	26705	815.5	QPSK	1	14	22.51	20.56	22.71	50	-29.44					
	20100	010.0	QLOIC	8	4	21.61	19.66	21.81	50	-30.34					
				15	0	21.46	19.51	21.66	50	-30.49					
				1	0	21.86	19.91	22.06	50	-30.09					
3	26740	819	QPSK	1	14	22.00	20.05	22.20	50	-29.95					
Ū	20140	013	QLOIC	8	4	21.03	19.08	21.23	50	-30.92					
				15	0	20.75	18.80	20.95	50	-31.20					
				1	0	20.95	19.00	21.15	50	-31.00					
	26775	822.5	QPSK	1	14	20.85	18.90	21.05	50	-31.10					
	20115	022.5	QION	8	4	19.62	17.67	19.82	50	-32.33					
				15	0	19.56	17.61	19.76	50	-32.39					
				1	0	22.73	20.78	22.93	50	-29.22					
	26705	815.5	16QAM	1	14	22.92	20.97	23.12	50	-29.03					
	20705	015.5	TOQAIVI	8	4	21.66	19.71	21.86	50	-30.29					
				15	0	21.68	19.73	21.88	50	-30.27					
									1	0	21.96	20.01	22.16	50	-29.99
3	26740	819	16QAM	1	14	21.75	19.80	21.95	50	-30.20					
5	20740	019	TOQAIVI	8	4	20.73	18.78	20.93	50	-31.22					
				15	0	20.88	18.93	21.08	50	-31.07					
				1	0	20.48	18.53	20.68	50	-31.47					
	26775	822.5	16QAM	1	14	20.79	18.84	20.99	50	-31.16					
	20775	022.5	TOQAIVI	8	4	20.04	18.09	20.24	50	-31.91					
				15	0	19.69	17.74	19.89	50	-32.26					
				1	0	22.81	20.86	23.01	50	-29.14					
	26705	815.5	64QAM	1	14	22.59	20.64	22.79	50	-29.36					
	20705	010.0	04QAIVI	8	4	21.54	19.59	21.74	50	-30.41					
				15	0	21.76	19.81	21.96	50	-30.19					
				1	0	21.70	19.75	21.90	50	-30.25					
2	3 26740 819	640444	1	14	22.04	20.09	22.24	50	-29.91						
3		013	64QAM	8	4	20.69	18.74	20.89	50	-31.26					
				15	0	20.52	18.57	20.72	50	-31.43					
				1	0	20.75	18.80	20.95	50	-31.20					
	06775	900 F	64000	1	14	20.55	18.60	20.75	50	-31.40					
	26775	822.5	64QAM	8	4	19.75	17.80	19.95	50	-32.20					
				15	0	19.80	17.85	20.00	50	-32.15					

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### Report No.: TERF2204000399E2 Page: 50 of 237

Antenna	gain (dBi)	0.2								
			Part 90S_LT	E Band 2	6_Uplink	frequency band	d : 814 to 824 M	Hz		
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	22.69	20.74	22.89	50	-29.26
	26715	816.5	QPSK	1	24	22.54	20.59	22.74	50	-29.41
	20715	010.5	QFSN	12	6	21.58	19.63	21.78	50	-30.37
				25	0	21.47	19.52	21.67	50	-30.48
				1	0	21.66	19.71	21.86	50	-30.29
5	26740	819	QPSK	1	24	21.74	19.79	21.94	50	-30.21
5	20740	019	QFON	12	6	20.80	18.85	21.00	50	-31.15
				25	0	20.54	18.59	20.74	50	-31.41
				1	0	20.75	18.80	20.95	50	-31.20
	26765	821.5	QPSK	1	24	21.09	19.14	21.29	50	-30.86
	20705	021.5	QFSN	12	6	19.83	17.88	20.03	50	-32.12
				25	0	19.61	17.66	19.81	50	-32.34
				1	0	22.61	20.66	22.81	50	-29.34
	26715	916 E	1604M	1	24	22.76	20.81	22.96	50	-29.19
	26715 816.5	010.5	16QAM	12	6	21.60	19.65	21.80	50	-30.35
				25	0	21.60	19.65	21.80	50	-30.35
			1	0	21.64	19.69	21.84	50	-30.31	
5	26740	819	16QAM	1	24	21.96	20.01	22.16	50	-29.99
5	20740	019	IOQAIVI	12	6	20.88	18.93	21.08	50	-31.07
				25	0	20.55	18.60	20.75	50	-31.40
				1	0	20.73	18.78	20.93	50	-31.22
	26765	821.5	100414	1	24	20.67	18.72	20.87	50	-31.28
	20700	021.5	16QAM	12	6	19.53	17.58	19.73	50	-32.42
				25	0	19.68	17.73	19.88	50	-32.27
				1	0	22.65	20.70	22.85	50	-29.30
	00745	91C E	640414	1	24	22.88	20.93	23.08	50	-29.07
	26715	816.5	64QAM	12	6	21.76	19.81	21.96	50	-30.19
				25	0	21.80	19.85	22.00	50	-30.15
				1	0	21.58	19.63	21.78	50	-30.37
F	5 26740 819	910	64000	1	24	21.93	19.98	22.13	50	-30.02
Э		019	64QAM	12	6	20.72	18.77	20.92	50	-31.23
				25	0	20.48	18.53	20.68	50	-31.47
				1	0	20.84	18.89	21.04	50	-31.11
	06765	004 E	640444	1	24	20.73	18.78	20.93	50	-31.22
	26765	821.5	64QAM	12	6	19.69	17.74	19.89	50	-32.26
				25	0	19.94	17.99	20.14	50	-32.01

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### Report No.: TERF2204000399E2 Page: 51 of 237

Antenna	gain (dBi)	0.2								
			Part 90S_LTI	E Band 2	6_Uplink	frequency band	d : 814 to 824 M	Hz		
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	22.62	20.67	22.82	50	-29.33
10	26740	819	QPSK	1	49	22.72	20.77	22.92	50	-29.23
10	20740			25	12	21.64	19.69	21.84	50	-30.31
				50	0	21.85	19.90	22.05	50	-30.10
				1	0	21.73	19.78	21.93	50	-30.22
10	26740	819	16QAM	1	49	21.77	19.82	21.97	50	-30.18
10	20740	019		25	12	20.61	18.66	20.81	50	-31.34
				50	0	20.79	18.84	20.99	50	-31.16
				1	0	20.73	18.78	20.93	50	-31.22
10	10 26740 819	819	640AM	1	49	20.64	18.69	20.84	50	-31.31
10	20140	40 819	64QAM -	25	12	19.80	17.85	20.00	50	-32.15
				50	0	19.80	17.85	20.00	50	-32.15

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Antenna	gain (dBi)	-0.2	]						
				•	-	nd : 2496 to 269			
		LTE E	Band 41_RS199	_Uplink f	requency	/ band : 2500 to	2690 MHz		
BW	UL	Frequency		RB	RB	Conducted	EIRP	EIRP	Margin
(MHz)	Channel	Frequency (MHz)	Modulation	Size	Offset	Average	Average	Limit	(dB)
(11112)	Channel	(101112)		Size	Oliset	(dBm)	(dBm)	(dBm)	· · /
				1	0	22.57	22.57	33	-10.43
	39675	2498.5	QPSK	1	24	22.52	22.52	33	-10.48
	00010	2430.5	QION	12	6	21.30	21.30	33	-11.7
				25	0	21.36	21.36	33	-11.64
				1	0	21.30	21.30	33	-11.7
5	40620	2593	QPSK	1	24	21.33	21.33	33	-11.67
J J	40020	2000	QION	12	6	20.47	20.47	33	-12.53
				25	0	20.48	20.48	33	-12.52
				1	0	20.52	20.52	33	-12.48
	41565	2687.5	QPSK	1	24	20.55	20.55	33	-12.45
	41505	2007.5	QION	12	6	19.31	19.31	33	-13.69
				25	0	19.52	19.52	33	-13.48
				1	0	22.72	22.72	33	-10.28
	39675	2498.5	16QAM	1	24	22.75	22.75	33	-10.25
	00010	2100.0	TOQAM	12	6	21.80	21.80	33	-11.2
				25	0	21.69	21.69	33	-11.31
				1	0	21.77	21.77	33	-11.23
5	40620	2593	16QAM	1	24	21.69	21.69	33	-11.31
J J	40020	2000	TOQAN	12	6	20.64	20.64	33	-12.36
				25	0	20.70	20.70	33	-12.3
				1	0	20.68	20.68	33	-12.32
	41565	2687.5	16QAM	1	24	20.61	20.61	33	-12.39
	41505	2007.5	TOQAIN	12	6	19.88	19.88	33	-13.12
				25	0	19.62	19.62	33	-13.38
				1	0	22.58	22.58	33	-10.42
	39675	2498.5	64QAM	1	24	22.58	22.58	33	-10.42
	00010	2730.0		12	6	21.52	21.52	33	-11.48
				25	0	21.68	21.68	33	-11.32
				1	0	21.57	21.57	33	-11.43
5	5 40620	2593	64QAM	1	24	21.59	21.59	33	-11.41
J	+0020	2000		12	6	20.56	20.56	33	-12.44
				25	0	20.64	20.64	33	-12.36
				1	0	20.50	20.50	33	-12.5
	41565	2687.5	64QAM	1	24	20.64	20.64	33	-12.36
	- 1000	41565 2687.5		12	6	19.53	19.53	33	-13.47
				25	0	19.60	19.60	33	-13.4

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Antenna	gain (dBi)	-0.2							
			TE Band 41_Up Band 41_RS199	-	-				
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	22.46	22.46	33	-10.54
	00700	0504	0001/	1	49	22.32	22.32	33	-10.68
	39700	2501	QPSK	25	12	21.53	21.53	33	-11.47
				50	0	21.56	21.56	33	-11.44
				1	0	21.53	21.53	33	-11.47
10	40600	0500	ODOK	1	49	21.41	21.41	33	-11.59
10	40620	2593	QPSK	25	12	20.42	20.42	33	-12.58
				50	0	20.32	20.32	33	-12.68
				1	0	20.47	20.47	33	-12.53
	41540	0695	ODOK	1	49	20.56	20.56	33	-12.44
	41540	2685	QPSK	25	12	19.36	19.36	33	-13.64
				50	0	19.44	19.44	33	-13.56
				1	0	22.88	22.88	33	-10.12
	39700	2501	16QAM	1	49	22.65	22.65	33	-10.35
	33700	2001	TOQAM	25	12	21.69	21.69	33	-11.31
				50	0	21.65	21.65	33	-11.35
				1	0	21.86	21.86	33	-11.14
10	40620	2593	16QAM	1	49	21.74	21.74	33	-11.26
10	40020	2000	10GAW	25	12	20.88	20.88	33	-12.12
				50	0	20.84	20.84	33	-12.16
				1	0	20.60	20.60	33	-12.4
	41540	2685	16QAM	1	49	20.72	20.72	33	-12.28
	41040	2000	10GAW	25	12	19.85	19.85	33	-13.15
				50	0	19.61	19.61	33	-13.39
				1	0	22.67	22.67	33	-10.33
	39700	2501	64QAM	1	49	22.57	22.57	33	-10.43
	00100	2001	0100101	25	12	21.60	21.60	33	-11.4
				50	0	21.70	21.70	33	-11.3
				1	0	21.55	21.55	33	-11.45
10	40620	2593	64QAM	1	49	21.56	21.56	33	-11.44
		2000	C I SU IVI	25	12	20.63	20.63	33	-12.37
				50	0	20.52	20.52	33	-12.48
				1	0	20.65	20.65	33	-12.35
	41540	2685	64QAM	1	49	20.63	20.63	33	-12.37
				25	12	19.56	19.56	33	-13.44
				50	0	19.67	19.67	33	-13.33

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Antenna	gain (dBi)	-0.2	]						
						nd:2496 to 269 / band:2500 to			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	22.54	22.54	33	-10.46
	39725	2503.5	QPSK	1 36	74 18	22.35 21.52	22.35 21.52	33 33	-10.65 -11.48
				75 1	0	21.52 21.42	21.52 21.42	33 33	-11.48 -11.58
15	40620	2593	QPSK	1	74	21.56	21.56	33	-11.44
				36 75	18 0	20.32 20.33	20.32 20.33	33 33	-12.68 -12.67
				1	0 74	20.54 20.34	20.54 20.34	33 33	-12.46 -12.66
	41515	2682.5	QPSK	36	18	19.44	19.44	33	-13.56
				75 1	0	19.56 22.63	19.56 22.63	33 33	-13.44 -10.37
	39725	2503.5	16QAM	1 36	74 18	22.84 21.82	<b>22.84</b> 21.82	33 33	-10.16 -11.18
				75	0	21.62	21.62	33	-11.38
15	40620	2593	16QAM	1 1	0 74	21.90 21.70	21.90 21.70	33 33	-11.1 -11.3
10	40020	2593	TOQAIVI	36 75	18 0	20.84 20.80	20.84 20.80	33 33	-12.16 -12.2
				1	0	20.85	20.85	33	-12.15
	41515	2682.5	16QAM	1 36	74 18	20.64 19.84	20.64 19.84	33 33	-12.36 -13.16
				75 1	0	19.85 22.52	19.85 22.52	33 33	-13.15 -10.48
	39725	2503.5	64QAM	1 36	74 18	22.68 21.68	<b>22.68</b> 21.68	33 33	-10.32 -11.32
				75	0	21.66	21.66	33	-11.34
15	40620	2502	640444	1	0 74	21.62 21.51	21.62 21.51	33 33	-11.38 -11.49
15	40620	2593	64QAM	36 75	18 0	20.60 20.64	20.60 20.64	33 33	-12.4 -12.36
				1	0	20.64	20.64	33	-12.36
	41515	2682.5	64QAM	1 36	74 18	20.65 19.51	20.65 19.51	33 33	-12.35 -13.49
				75	0	19.64	19.64	33	-13.36

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Antenna	gain (dBi)	-0.2							
				-	-	nd:2496 to 269 / band:2500 to			
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	22.61	22.61	33	-10.39
	39750	2506	QPSK	1	99	22.46	22.46	33	-10.54
	39730	2300	QFON	50	25	21.67	21.67	33	-11.33
				100	0	21.74	21.74	33	-11.26
				1	0	21.65	21.65	33	-11.35
20	40620	2593	QPSK	1	99	21.63	21.63	33	-11.37
20	40020	2595	QFSK	50	25	20.71	20.71	33	-12.29
				100	0	20.78	20.78	33	-12.22
				1	0	20.35	20.35	33	-12.65
	41400	2690		1	99	20.41	20.41	33	-12.59
	41490	2680	QPSK	50	25	19.65	19.65	33	-13.35
				100	0	19.78	19.78	33	-13.22
				1	0	22.95	22.95	33	-10.05
	20750	0500	400414	1	99	22.91	22.91	33	-10.09
	39750	2506	16QAM	50	25	21.95	21.95	33	-11.05
				100	0	21.92	21.92	33	-11.08
				1	0	21.84	21.84	33	-11.16
20	40600	0500	160414	1	99	21.98	21.98	33	-11.02
20	40620	2593	16QAM	50	25	20.86	20.86	33	-12.14
				100	0	20.75	20.75	33	-12.25
				1	0	20.58	20.58	33	-12.42
	44.400	0000	400414	1	99	20.54	20.54	33	-12.46
	41490	2680	16QAM	50	25	19.96	19.96	33	-13.04
				100	0	19.99	19.99	33	-13.01
				1	0	21.75	21.75	33	-11.25
	20750	2506	GAOAM	1	99	21.48	21.48	33	-11.52
	39750	2506	64QAM	50	25	20.91	20.91	33	-12.09
				100	0	20.67	20.67	33	-12.33
				1	0	21.72	21.72	33	-11.28
	20 40600	0500	640444	1	99	21.42	21.42	33	-11.58
20	40620	2593	64QAM	50	25	20.71	20.71	33	-12.29
				100	0	20.84	20.84	33	-12.16
				1	0	20.53	20.53	33	-12.47
	41400	0600	GACANA	1	99	20.31	20.31	33	-12.69
	41490	2680	64QAM	50	25	19.82	19.82	33	-13.18
				100	0	19.91	19.91	33	-13.09

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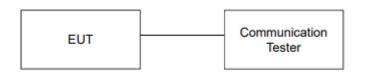
#### **OCCUPIED BANDWIDTH MEASUREMENT** 8

#### 8.1 **Standard Applicable**

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

#### 8.2 **Test Set-up**

8.4



### Note: Measurement setup for testing on Antenna connector

#### **Measurement Procedure** 8.3

### 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%.

#### LTE BAND 2 Channel bandwidth: 1.4MHz Freq. 99% BW (MHz) 26 dB BW (MHz) CH QPSK 16QAM 64QAM QPSK 16QAM 64QAM (MHz) 1850.7 18607 1.0859 1.0848 1.0862 1.268 1.252 1.273 1880.0 18900 1.0855 1.0863 1.0863 1.263 1.271 1 280 1909.3 19193 1.0863 1.0866 1.288 1.0838 1.256 1.268

Measurement Result

	LTE BAND 2 Channel bandwidth: 5MHz											
Freq.	СН	99	% BW (Mŀ	lz)	26 dB BW (MHz)							
(MHz)	GH	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM					
1852.5	18625	4.4835	4.4789	4.4888	4.921	4.929	4.894					
1880.0	18900	4.4865	4.4811	4.4876	4.908	4.897	4.929					
1907.5	19175	4.4795	4.4733	4.4907	4.926	4.904	4.919					

	LTE BAND 2 Channel bandwidth: 15MHz											
Freq.	СН	99	% BW (Mł	26	dB BW (MHz)							
(MHz)	GH	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM					
1857.5	18675	13.468	13.432	13.397	14.44	14.60	14.53					
1880.0	18900	13.436	13.429	13.402	14.47	14.63	14.49					
1902.5	19125	19125 13.399 13.400 <b>13.402</b> 14.43 14.50 14.51										

	LTE BAND 2 Channel bandwidth: 3MHz											
Freq.	СН	99	% BW (Mł	lz)	26 dB BW (MHz)							
(MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM					
1851.5	18615	2.6839	2.6836	2.6899	2.888	2.920	2.894					
1880.0	18900	2.6834	2.6803	2.6858	2.901	2.907	2.899					
1908.5	19185	2.6814	2.6803	2.6879	2.913	2.902	2.890					

	LTE BAND 2 Channel bandwidth: 10MHz											
Freq.	СН	99	% BW (Mł	Hz)	26 dB BW (MHz)							
(MHz)	GH	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM					
1855.0	18650	8.9671	8.9450	8.9556	9.682	9.652	9.716					
1880.0	18900	8.9709	8.9302	8.9494	9.749	9.620	9.898					
1905.0	19150	8.9745	8.9292	8.9506	9.677	9.621	9.680					

	LTE BAND 2 Channel bandwidth: 20MHz											
Freq.	СН	99	9% BW (Mł	Hz)	26 dB BW (MHz)							
(MHz)	)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM					
1860.0	) 18700	17.869	17.895	17.863	19.16	19.16	19.16					
1880.0	) 18900	17.879	17.908	17.905	19.22	19.18	19.23					
1900.0	) 19100	17.842	17.877	17.874	19.41	19.11	19.24					

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LTE BAND 4 Channel bandwidth: 1.4MHz											
Freq.	СН	99% BW (MHz)			26 dB BW (MHz)						
(MHz)	GH	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
1710.7	19957	1.0850	1.0828	1.0872	1.264	1.260	1.278				
1732.5	20175	1.0853	1.0845	1.0859	1.253	1.264	1.266				
1754.3	20393	1.0857	1.0862	1.0866	1.267	1.267	1.272				

	LTE BAND 4 Channel bandwidth: 5MHz										
Fre	eq.	СН	99	99% BW (MHz) 26 dB BW (MHz)							
(M	Hz)	GH	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM			
171	12.5	19975	4.4841	4.4815	4.4921	4.909	4.885	4.900			
173	32.5	20175	4.4789	4.4855	4.4829	4.927	4.942	4.889			
175	52.5	20375	4.4854	4.4810	4.4925	4.926	4.922	4.935			

		LTE BAND	D 4 Channe	elbandwid	th: 15MHz		
Freq.	СН	99	% BW (M⊦	Hz)	26 dB BW (MHz)		
(MHz)	ULI	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1717.5	20025	13.446	13.430	13.425	14.49	14.55	14.50
1732.5	20175	13.426	13.423	13.424	14.41	14.45	14.47
1747.5	20325	13.444	13.408	13.379	14.49	14.48	14.47
		LTE BAND	) 5 Channe	l bandwid	th: 1.4MHz		
Freq.	СН	99	% BW (M⊦	Hz)	26	dB BW (M	Hz)
(MHz)	GIT	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
824.7	20407	1.0858	1.0876	1.0860	1.257	1.272	1.280
836.5	20525	1.0856	1.0853	1.0851	1.259	1.267	1.268
848.3	20643	1.0856	1.0875	1.0863	1.250	1.275	1.285

	LTE BAND 5 Channel bandwidth: 5MHz										
Freq.	СН	99	% BW (M⊦	Hz)	26	dB BW (M	Hz)				
(MHz)	GH	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
826.5	20425	4.4820	4.4872	4.4926	4.936	4.940	4.896				
836.5	20525	4.4784	4.4804	4.4754	4.914	4.904	4.874				
846.5	20625	4.4743	4.4751	4.4782	4.905	4.877	4.916				
	l	TE BAND	12 Channe	el bandwid	th: 1.4MHz	Z					
Freq.	СН	99	% BW (M⊦	Hz)	26	dB BW (M	Hz)				
(MHz)	GH	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
699.7	23017	1.0853	1.0876	1.0855	1.256	1.270	1.273				
707.5	23095	1.0857	1.0836	1.0858	1.260	1.260	1.259				
715.3	23173	1.0858	1.0860	1.0858	1.262	1.263	1.260				

	LTE BAND 12 Channel bandwidth: 5MHz										
Freq.	СН	99% BW (MHz)			26 dB BW (MHz)						
(MHz)	GH	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
701.5	23035	4.4822	4.4894	4.4865	5.011	4.922	4.927				
707.5	23095	4.4789	4.4771	4.4794	4.913	4.889	4.911				
713.5	23155	4.4848	4.4899	4.4986	4.943	4.913	4.916				
		LTE BAND	D 17 Chanr	nel bandwi	dth: 5MHz						
Freq.	СН	99	% BW (Mł	Hz)	26	dB BW (M	Hz)				
(MHz)	GH	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
706.5	23755	4.4774	4.4793	4.4810	4.914	4.904	4.902				
710.0	23790	4.4780	4.4817	4.4881	4.920	4.882	4.868				
713.5	23825	4.4864	4.4896	4.4922	4.923	4.926	4.897				

	LTE BAND 4 Channel bandwidth: 3MHz											
Freq.	СН	99% BW (MHz)			26 dB BW (MHz)							
(MHz)	GH	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM					
1711.5	19965	2.6847	2.6847	2.6887	2.891	2.910	2.889					
1732.5	20175	2.6806	2.6849	2.6882	2.893	2.915	2.906					
1753.5	20385	2.6832	2.6849	2.6859	2.897	2.906	2.892					

	LTE BAND 4 Channel bandwidth: 10MHz										
Freq.	СН	99	99% BW (MHz) 26 dB BW (MHz)								
(MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
1715.0	20000	8.9672	8.9300	8.9491	9.685	9.606	9.735				
1732.5	20175	8.9595	8.9503	8.9585	9.665	9.624	9.732				
1750.0	20350	8.9618	8.9368	8.9463	9.691	9.636	9.908				

		LTE BAND	0 4 Channe	el bandwid	th: 20MHz			
Freq.	СН	99	% BW (Mł	lz)	26	26 dB BW (MHz)		
(MHz)	GH	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
1720.0	20050	17.914	17.949	17.918	19.24	19.27	19.17	
1732.5	20175	17.863	17.877	17.884	19.17	19.20	19.30	
1745.0	20300	17.827	17.842	17.821	19.16	19.09	19.14	
		LTE BAN	D 5 Chann	el bandwic	Ith: 3MHz			
Freq.	СН	99	% BW (M⊦	lz)	26	dB BW (M	Hz)	
(MHz)	On	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
825.5	20415	2.6825	2.6822	2.6895	2.908	2.894	2.898	
836.5	20525	2.6825	2.6836	2.6883	2.908	2.912	2.898	
847.5	20635	2.6786	2.6808	2.6799	2.898	2.895	2.885	

	LTE BAND 5 Channel bandwidth: 10MHz										
Freq.	СН	99% BW (MHz)			26 dB BW (MHz)						
(MHz)		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
829.0	20450	8.9710	8.9574	8.9739	9.789	9.705	9.754				
836.5	20525	8.9524	8.9229	8.9220	9.698	9.584	9.667				
844.0	20600	8.9741	8.9442	8.9511	9.717	9.642	9.744				
	LTE BAND 12 Channel bandwidth: 3MHz										
Freq.	сц		% BW (Mł	łz)	26	dB BW (M	Hz)				
Freq. (MHz)	СН		% BW (MH 16QAM	lz) 64QAM	26 QPSK	d <mark>B BW (M</mark> 16QAM	Hz) 64QAM				
	CH 23025	99	· · · ·	/	-	· (	/				
(MHz)		99 QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				

LTE RAND 12 Channel handwidth: 10MHz											
	LTE BAND 12 Channel bandwidth: 10MHz										
Freq.	СН	99% BW (MHz)			26 dB BW (MHz)						
(MHz)	OIT	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
704.0	23060	8.9749	8.9406	8.9653	9.723	9.656	9.733				
707.5	23095	8.9479	8.9190	8.9214	9.625	9.608	9.634				
711.0	23130	8.9619	8.9348	8.9482	9.674	9.665	9.636				
		lte band	17 Chann	el bandwic	lth: 10MHz						
Freq.	СН	99	% BW (Mł	lz)	26	dB BW (M	Hz)				
(MHz)	01	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
709.0	23780	8.9400	8.9103	8.9274	9.670	9.619	9.666				
710.0	23790	8.9553	8.9254	8.9432	9.658	9.661	9.693				
711.0	23800	8.9630	8.9425	8.9643	9.738	9.689	9.736				

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	LTE BAND 26 for part 90S Channel bandwidth: 1.4MHz										
Freq.	СН	99	% BW (Mł	Hz)	26 dB BW (MHz)						
(MHz)	CH	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM				
814.7	26697	1.0858	1.0886	1.0861	1.248	1.266	1.272				
819.0	26740	1.0847	1.0842	1.0864	1.253	1.256	1.271				
823.3	26783	1.0820	1.0874	1.0850	1.266	1.262	1.257				

	LTE E	BAND 26 fo	or part 90S	Channel b	LTE BAND 26 for part 90S Channel bandwidth: 5MHz									
Freq.	СН	99	% BW (MF	lz)	26 dB BW (MHz)									
(MHz)	OIT	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM							
816.5	26715	4.4771	4.4839	4.4860	4.910	4.911	4.947							
819.0	26740	4.4737	4.4642	4.4885	4.896	4.877	4.864							
821.5	26765	4.4819	<b>4.4819</b> 4.4827 4.4858 <b>5.131 4.922</b>		4.903									
	l	TE BAND	26 Channe	el bandwid	th: 1.4MHz	2								
Freq.	СН	99	% BW (MF	lz)	26	dB BW (M	Hz)							
(MHz)	On	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM							
824.7	26797	1.0861	1.0862	1.0858	1.268	1.271	1.280							
836.5	26915	1.0855	1.0853	1.0868	1.262	1.266	1.271							
848.3	27033	1.0856	1.0866	1.0855	1.250	1.276	1.292							

		LTE BAN	D 26 Chanr	nel bandwi	dth: 5MHz		
Freq.	СН	99	% BW (M⊦	Hz)	26	dB BW (M	Hz)
(MHz)	On	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
826.5	26815	4.4820	4.4860	4.4941	4.937	4.938	4.919
836.5	26915	4.4745	4.4772	4.4909	4.900	4.872	4.892
846.5	27015	4.4789	4.4775	4.4764	4.860	4.877	4.885

		LTE BAND	26 Chann	elbandwid	th: 15MHz		
Freq.	СН	99	% BW (Mł	Hz)	26	dB BW (M	Hz)
(MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
831.5	26865	13.462	13.442	13.435	14.47	14.62	14.56
836.5	26915	13.384	13.382	13.372	14.46	14.53	14.56
841.5	26965	13.428	13.405	13.400	14.43	14.53	14.43
		LTE BAND	ND 41 Channel bandwidth: 5MHz				
Freq.	СН	99	99% BW (MHz) 26 dB BW (MHz)				
(MHz)	СП	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2498.5	39675	4.4808	4.4874	4.4919	4.912	5.006	4.881
2593.0	40620	4.4765	4.4900	4.4930	4.914	4.940	4.877
2687.5	41565	4.4722	4.4856	4.4857	4.903	5.025	4.884
		LTE BAND	41 Chann	el bandwic	Ith: 15MHz		
Freq.	СН	99	% BW (Mł	lz)	26	dB BW (M	Hz)
(MHz)	GH	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2503.5	39725	13.446	13.439	13.425	14.75	15.73	14.51
2593.0	40620	13.468	13.426	13.412	14.52	15.66	14.88
2682.5	41515	13.475	13.410	13.407	15.06	14.55	14.48

	LTE E	BAND 26 fc	or part 90S	Channel b	andwidth:	3MHz	
Freq.	СН	99	% BW (Mł	Hz)	26	dB BW (M	Hz)
(MHz)	GH	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
815.5	26705	2.6803	2.6858	2.6862	2.891	2.905	2.900
819.0	26740	2.6805	2.6814	2.6863	2.896	2.903	2.892
822.5	26775	2.6832	2.6833	2.6861	2.907	2.899	2.895

	LTE B	AND 26 for	r part 90S	Channel ba	andwidth: 1	10MHz	
Freq.	СН	99	% BW (Mł	Hz)	26	dB BW (M	Hz)
(MHz)	GH	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
819.0	26740	8.9376	8.9078	8.9294	9.647	9.626	11.040

		LTE BAN	D 26 Chanr	nel bandwi	dth: 3MHz		
Freq.	СН	99	% BW (Mł	Hz)	26	dB BW (M	Hz)
(MHz)	GH	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
825.5	26805	2.6932	2.6836	2.6897	2.912	2.903	2.906
836.5	26915	2.6821	2.6820	2.6874	2.894	2.914	2.894
847.5	27025	2.6797	2.6765	2.6832	2.898	2.908	2.880

		LTE BAND	26 Chann	el bandwic	Ith: 10MHz		
Freq.	СН	99	% BW (M⊦	łz)	26	dB BW (M	Hz)
(MHz)	GH	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
829.0	26840	8.9888	8.9594	8.9777	9.762	9.690	9.784
836.5	26915	8.9563	8.9194	8.9304	9.643	9.666	9.691
844.0	26990	8.9648	8.9442	8.9570	9.680	9.658	9.744

		LTE BAND	41 Chann	el bandwic	Ith: 10MHz		
Freq.	СН	99	% BW (M⊦	lz)	26	dB BW (M	Hz)
(MHz)	GH	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2501.0	39700	8.9212	8.9970	8.9446	9.499	9.359	9.438
2593.0	40620	8.9694	8.9387	8.9558	9.705	9.593	10.010
2685.0	41540	8.9567	8.9433	8.9594	9.671	9.992	10.090
		lte band	41 Chann	el bandwic	Ith: 20MHz		
Freq.	СН	99	% BW (M⊦	lz)	26	dB BW (M	Hz)
(MHz)	GH	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2506.0	39750	17.899	17.914	17.894	19.97	20.15	19.72
2593.0	40620	17.900	17.874	17.867	19.60	19.95	19.36
2680.0	41490	17.847	17.880	17.878	19.65	19.44	19.15

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#### Band2 1.4MHz QPSK RB6 0 CH18607

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	.00 %	99		ower	OBW P	Hz	-1.407 k		rror	t Freq Er	insmit	Tr
	00 dB	-26.			x dB	Hz	1.263 M			ndwidth	B Ban	x
MHz		Span 2.1 I Sweep 5.067 dBm	Radio Device: BT	Radio Device: 81	Span 2.11 Symep 5.067 ower 31.4 dBm ower 99.00 %	Odd     Radio Device: 81       Radio Device: 81     Span 2.11       Swep 5.067     Swep 5.067       Total Power     31.4 dBm       OBW Power     99.00 %	xxtien: 30 dB Radio Device: 81 Radio Device: 81	Ration 20 dB Radio Device: 81 Radio Device: 81 Radio Device: 81 Radio Device: 81 Span 2.11 #VBW 62 kHz Span 2.11 #VBW 62 kHz Sweep 5.067 Total Power 31.4 dBm 55 MHz -1.407 kHz OBW Power 99.00 %	#FGainLow         #Affine: 30 dB         Radio Device: 81           dB	#FGeintow         #Atten: 30 dB         Radio Device: BT           114.9 dB         00 dBm         0           0 dBm         0         0         0           114.9 dB         0         0         0           12.0 dB         0         0         0           10.0 dSt         MHz         0         0           10.0 dSt         MHz         0         0           10.0 dB         0         0         0           1.0 dSt         MHz         0         0           ror         -1.407 kHz         0         0         90.00 %	#FGalactow         #Atten: 30 dB         Radio Device: BT           Ref Offset 149 dB         Ref 30.00 dBm         Image: Comparison of the second	Ref 036.00 dBm Ref 036.00 dBm ref 30.00 dBm ref

#### Band2 1.4MHz QPSK RB6 0 CH19193

	trum Analyzer - Oco										- # <b>*</b>
Center Fr	RF 50 Ω eq 1.90930	00000	GHz FGain:Low	Center		0000 GHz Avg Hol	ALIGN #		09:47:54 Radio Sto		Frequency
10 dB/div	Ref Offset Ref 30.0										
20.0		r	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					Center Fred 1.909300000 GHz
-10.0 -20.0	way and a							Ż	1 mar	-	
-30.0											
-60.0	000 GH7								Sna	n 2.1 MHz	
Res BW 2				#\	/BW 62 kH	Iz				5.067 ms	CF Step 210.000 kHz
Occup	ied Band		838 MI	Hz	Total P	ower		31.6	dBm		Auto Mar Freq Offset
	nit Freq Err		-1.731	kHz	OBW P	ower			.00 %		0 Hz
x dB Ba	andwidth		1.256 N	1Hz	x dB			-26.	00 dB		
MSG							5	STATUS			

#### Band2 1.4MHz 16QAM RB6 0 CH18607

R	trum Analyzer - Occupied BW RF 50 Ω DC 9q 1.850700000	GHz	Center	SENSE:INT Freq: 1.85070 ree Run : 30 dB	10000 GHz Avg Hole	ALIGN AUTO	Radio S	5 PM May 20, 2022 td: None evice: BTS	Frequency
0 dB/div	Ref Offset 14.9 dE Ref 30.00 dBm								
.og 20.0 10.0			mm	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		m			Center Fre 1.850700000 GH
0.00				-					
20.0 30.0 مرمیم میرمی 40.0	nahar -							~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
50.0									
Center 1.8 Res BW 2			#\	/BW 62 kH	łz			an 2.1 MHz 5.067 ms	CF Ste 210.000 kH
Occup	ied Bandwidtl 1.(	h 0848 N	1Hz	Total P	ower	30	.9 dBm		Auto Ma Freq Offse
Transm	it Freq Error	3.12	5 kHz	OBW P	ower	ç	9.00 %		0 H
v dB Ba	ndwidth	1.252	MHz	x dB		-20	5.00 dB		

Frequency		09:44:58 P Radio Std Radio Dev	IGN AUTO 0/10			Center	<b>lz</b> Gain:Low	0000 G	trum Analyzer - Οτι RF 50 Ω ອ <b>q 1.88000</b>	R
									Ref Offset Ref 30.0	dB/div
Center Fre 1.880000000 GH			~			۸um	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~		<b>99</b> 0.0
		<u></u>	h					4		
	m-	w.w.							month	0 0
										0
CF Ste 210.000 kH	n 2.1 MHz 5.067 ms			z	BW 62 kH	#V				enter 1.8 es BW 2
<u>Auto</u> Ma		dBm	30.8	ower	Total P			width	ied Band	Occup
Freq Offse						Ιz	63 MI	1.08		
он		.00 %	99	ower	OBW P	Hz	3.785	or	it Freq Err	Transm
		00 dB	-26.		x dB	IHz	1.271 N		ndwidth	x dB Ba

#### Band2 1.4MHz 16QAM RB6 0 CH19193

	ectrum Analyzer - Occupied BV	v				- # <b>#</b>
R	RF 50 Ω DC		SENSE:INT	ALIGN AUTO	09:48:31 PM May 20 Radio Std: None	,2022 Frequency
Center F	req 1.909300000		enter Freq: 1.90930000 rig: Free Run A	vg Hold: 10/10	Radio Std: None	riequency
		#IFGain:Low #	Atten: 30 dB		Radio Device: BT	s
	Ref Offset 14.9 d	P				
10 dB/div	Ref 30.00 dBr					
-og 20.0						
		mon	man	mm		Center Fre
10.0						1.909300000 GI
0.00				5		
0.0					h h	-
0.0	Marrow	-			mon	200
0.0						
0.0						-
0.0						_
50.0						_
. Ļ						
les BW	.909 GHz 20 kHz		#VBW 62 kHz		Span 2.1   Sweep 5.067	
					•	Auto 210.000 ki
Occu	pied Bandwidt	:h	Total Pow	er 30.9	9 dBm	
	1	0863 MHz				Freq Offs
_						Prequis 01
Trans	mit Freq Error	3.301 kHz	OBW Pow	er 99	9.00 %	
x dB E	Bandwidth	1.268 MHz	x dB	-26	.00 dB	
sg				STATU	ic.	
~				Sinto		

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# Report No.: TERF2204000399E2 Page: 60 of 237

#### Band2 1.4MHz 64QAM RB6 0 CH18607

	trum Analyzer - Oci											
enter Fr	RF 50 Ω eq 1.85070		GHz #FGain:Low	SENSE:INT         ALIGN AUTO           Center Freq: 1.850700000 GHz         Trig: Free Run         Avg Hold:>10/10           #Atten: 30 dB         Avg         Avg				09:43:00 P Radio Std Radio Dev		Frequency		
dB/div	Ref Offset Ref 30.0											
<b>99</b> 0.0		r		m		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						Center Fre
		4						7	×~			
0 0									and the second			
enter 1.1 es BW 2	851 GHz 0 kHz			#V	BW 62 kH	Iz				n 2.1 MHz 5.067 ms		CF Ste 210.000 kl
Occup	ied Band				Total P	ower	2	29.6	dBm		<u>Auto</u>	Ma
Trance	nit Freg Err		862 MI		OBW P			00	.00 %		'	Freq Offs 01
	andwidth	01	1.273 N		x dB		-		00 dB			

			_64QAM_R	36_0_CH1890	
R	rum Analyzer - Occupied BV RF 50 Ω DC 2 2 <b>q 1.880000000</b>	GHz Cente	SENSE:INT r Freq: 1.880000000 GHz Free Run Avg Hol n: 30 dB	ALIGN AUTO 09:45:34 PM May 2 Radio Std: None d: 10/10 Radio Device: B	Frequency
10 dB/div	Ref Offset 14.9 d Ref 30.00 dBn				
og 20.0 10.0 10.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20					Center Free 1.88000000 GH
enter 1.8 tes BW 20		#	VBW 62 kHz	Span 2.1 Sweep 5.06	
Occupi	ied Bandwidt 1.	<sup>h</sup> 0863 MHz	Total Power	29.7 dBm	Auto Ma
Transmi x dB Ba	it Freq Error ndwidth	37 Hz 1.280 MHz	OBW Power x dB	99.00 % -26.00 dB	он
9G				STATUS	

### Band2 1.4MHz 64QAM RB6 0 CH19193

	ctrum Analyzer - Oc											×
(X) R	RF 50 Ω				ENSE:INT Frea: 1,90930		ALIGN AL	JTO	09:49:14 Radio St	PM May 20, 2022	Frequenc	v
Center Fr	req 1.90930	00000	GHZ		req: 1.90930 ree Run	AvalHol	d: 10/10		Radio St	a: None		"
			#IFGain:Low	#Atten:	30 dB				Radio De	vice: BTS		
	Ref Offset											
10 dB/div Log	Ref 30.0	0 dBm			1		- 1					
20.0	_		_								Center	Freq
10.0	_	m	m	norm	m	m	$\sim$				1.90930000	0 GHz
0.00	_	LA-					-				L	
-10.0		2						$\rightarrow$				
-20.0	, si								Ny -			
-30.0	man								- m	-		
-40.0												
-50.0												
-60.0												
Center 1. Res BW 2				#\	/BW 62 kH	Iz				n 2.1 MHz 5.067 ms	CF 210.00	Step
											Auto	Man
Occup	bied Band				Total P	ower	2	9.7	dBm			
		1.0	08 <b>66 M</b> I	١z							FreqO	offset
Transn	nit Freq Er	ror	669	Hz	OBW P	ower		99	.00 %			0 Hz
x dB B	andwidth		1.288 N	IHz	x dB		-	26.0	00 dB			
MSG							51	TATUS				
												_

#### Band2 3MHz QPSK RB15 0 CH18615

Center Fre	RF 50 Ω DC eq 1.85150000		Center	SENSE:INT Freq: 1.8515 ree Run : 30 dB	00000 GHz Avg Hol	ALIGN AUTO	09:31:43 Radio Sto Radio De		Frequency
10 d <u>B/div</u>	Ref Offset 14.9 Ref 30.00 dB								
Log 20.0 10.0 10.0 20.0 20.0 20.0 20.0 40.0 50.0 60.0								Maria	Center Free 1.851500000 GH
Center 1.8 Res BW 4			#\	/BW 130	kHz			n 4.5 MHz 2.333 ms	CF Stej 450.000 kH
Occup	ied Bandwid 2	<sup>th</sup> .6839 M	Hz	Total F	ower	31.8	dBm		Auto Ma Freq Offse
Transm	it Freq Error	1.454	kHz	OBW F	ower	99	.00 %		он
x dB Ba	ndwidth	2.888	MHz	x dB		-26.	00 dB		

#### Band2 3MHz QPSK RB15 0 CH18900

	rum Analyzer - Occ										- # ×
enter Fre	PC         S0 R.         DC         SSD5211/T1         ALIGN AUTO         009-3432 PMM avg.           req 1.8800000000 GHz         Trig: Free 1.880000000 Kiz         Radio Std: Vanis         Non           #If GainsLow         #If GainsLow         Attria         30 B         Radio Davis         Radio Davis         B							Fi	requency		
0 dB/div og	Ref Offset Ref 30.00										
29 0.0 0.0	<u> </u>			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				Center Fre 0000000 GH
.0											
.0 Arres	m							m			
10											
enter 1.8 es BW 43				#VI	BW 130 k	Hz			n 4.5 MHz 2.333 ms		CF Ste 450.000 ki
Occup	ied Band		34 MF	47	Total P	ower	31.8	dBm		Auto	Ma
Transm	it Freq Err		1.063 k		OBW P	ower	99	.00 %			Freq Offs 0 H
x dB Ba	ndwidth		2.901 M	IHz	x dB		-26.	00 dB			

#### Band2 3MHz QPSK RB15 0 CH19185

	m Analyzer - Occupied BV	V					- 3 🛃
	RF 50 Ω DC	CI- Cont	SENSE:INT er Freg: 1.90850000	ALIGN AUTO	09:38:09 PM Radio Std:	1May 20, 2022	Frequency
enter Fred	1.908500000	Trig:	Free Run A	vg Hold: 10/10			
		#IFGain:Low #Atte	n: 30 dB		Radio Devi	ice: BTS	
	Ref Offset 14.9 d						
0 dB/div og	Ref 30.00 dBn	n			·		
20.0							Center Fre
10.0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	man		man			1,908500000 GI
1.00	A				1		
0.0	///				$\square$		
0.0	1						
0.0 marin	ennor				ww	mm	
0.0							
0.0							
50.0							
~~~							
enter 1.90						4.5 MHz	CF Ste
les BW 43	kHz	;	VBW 130 kHz		Sweep	2.333 ms	450.000 k
Occupie	d Bandwidt	h	Total Pow	ver 31.	9 dBm	Ľ	Auto M
occupic		 6814 MHz				h h	
	Ζ.						Freq Offs
Transmit	Freq Error	-393 Hz	OBW Pow	ver 9	9.00 %		0
x dB Ban	dwidth	2.913 MHz	x dB	-26	.00 dB	1	
				STATI			
SG				STATU	15		

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#### Band2 3MHz 16QAM RB15 0 CH18615

	rum Analyzer - Occupied BV	/					
enter Fre	RF 50 Ω DC eq 1.851500000	Trig:	SENSE:INT Per Freq: 1.851500000 GHz Free Run Avg Ho an: 30 dB	ALIGN AUTO	09:32:06 P Radio Std Radio Dev		Frequency
10 dB/div	Ref Offset 14.9 di Ref 30.00 dBn						
-og 20.0 10.0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				1		Center F 1.851500000 0
1.00							
0.0					- mu	~~~~~	
0.0							
enter 1.8 es BW 43			#VBW 130 kHz		Spar Sweep	1 4.5 MHz 2.333 ms	CF S 450.000
Occupi	ied Bandwidt		Total Power	31.3	dBm		Auto 1
_		6836 MHz					Freq Off
x dB Ba	it Freq Error ndwidth	3.995 kHz 2.920 MHz	OBW Power x dB		.00 % 00 dB		

	Band2	2_3MHz_^	16QAM_RB1	5_0_CH	118900	
Keysight Spectrum Analy R R Center Freq 1.8	50 Ω DC 80000000 GH	Trig:	SENSE:INT r Freq: 1.880000000 GHz Free Run Avg Hold n: 30 dB	Ra 1: 10/10	9:35:17 PM May 20, 2022 Idio Std: None Idio Device: BTS	Frequency
	Offset 14.9 dB 30.00 dBm					Center Freq 1.88000000 GHz
Center 1.88 GHz Res BW 43 kHz		#	VBW 130 kHz	31.3 dE	Span 4.5 MHz weep 2.333 ms	CF Step 450.000 kH <u>Auto</u> Mar
Transmit Free x dB Bandwid	<b>2.6</b> 8 q Error	03 MHz 276 Hz 2.907 MHz	OBW Power x dB	99.00 -26.00	)%	Freq Offse 0 H:
8G				STATUS		

### Band2 3MHz 16QAM RB15 0 CH19185

	pectrum Analyzer - Occ									
Center I	RF 50 Ω Freq 1.90850		7	Center Fi	NSE:INT reg: 1.90850	0000 GHz	ALIGN AUTO	09:38:31 Radio Sto	M May 20, 2022	Frequency
o or neor			Sain:Low	#Atten: 3		Avg Hold	: 10/10	Radio De	vice: BTS	
			Jain.Low							
10 dB/div	Ref Offset Ref 30.00									
Log 20.0										Contor From
10.0		mm	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~	m				Center Freq 1,908500000 GHz
0.00	A							Λ		1.30000000 0112
-10.0	/							$\backslash$		
-20.0										
-30.0	mound							wyn	mm	
-40.0										
-50.0										
-60.0										
Center	1.909 GHz							Spa	n 4.5 MHz	05.01.0
Res BW	43 kHz			#VE	3W 130 k	Hz			2.333 ms	CF Step 450.000 kHz
000	pied Band	width			Total P	ower	31.4	ldBm		<u>Auto</u> Man
	apica Dana		03 MI	1-						
										Freq Offset
Trans	mit Freq Err	or	-564	Hz	OBW P	ower	99	.00 %		0 Hz
x dB	Bandwidth		2.902 N	IHz	x dB		-26.	00 dB		
MSG							STATU	5		

#### Band2\_3MHz\_64QAM\_RB15\_0\_CH18615

R Center Fr	RF 50Ω DC eq 1.851500000	0 GHz #IFGain:Low	Center	SENSE:INT Freq: 1.85150 ree Run : 30 dB	0000 GHz Avg Hold	ALIGN AUTO	09:32:43 Radio Sto Radio De		Frequency
10 dB/div -og 20.0 10.0 20							L L		Center Fred 1.851500000 GH
Center 1.8 Res BW 4 Occup	3 kHz ied Bandwid	th .6899 M		/BW 130 F Total P		30.2		n 4.5 MHz 2.333 ms	CF Stej 450.000 kH <u>Auto</u> Ma Freq Offse
	nit Freq Error andwidth	5.338 2.894 I	kHz	OBW P x dB	ower		.00 % 00 dB		0H

enter Fr	RF 50 Ω DC eq 1.880000000	Trig: F	SENSE:INT r Freq: 1.880000000 GHz Free Run Avg Hole h: 30 dB	Radi d: 10/10	5:56 PM May 20, 2022 o Std: None o Device: BTS	Frequency
0 dB/div	Ref Offset 14.9 dE Ref 30.00 dBm					
og 00.0 0.00 0.						Center Freq 1.880000000 GHz
enter 1.8 es BW 4		#	VBW 130 kHz		Span 4.5 MHz eep 2.333 ms	CF Step 450,000 kHz
Occup	ied Bandwidt	h 6858 MHz	Total Power	30.2 dBr	n	Auto Man Freq Offset
	nit Freq Error andwidth	5.928 kHz 2.899 MHz	OBW Power x dB	99.00 9 -26.00 d		0 Hz

#### Band2 3MHz 64QAM RB15 0 CH19185

R RF 50 Ω DC Center Freq 1.908500000	Trig:	SENSE:INT rr Freq: 1.908500000 GHz Free Run Avg Ho n: 30 dB	ALIGN AUTO	09:39:15 PM May 20 Radio Std: None	Frequency
Center Freq 1.908500000	Trig:	Free Run Avg Ho		Radio Std: None	,
		n: 30 dB			
				Radio Device: BT	s
Ref Offset 14.9 d	in .				
10 dB/div Ref 30.00 dBr					
og					
20.0	man	0.00			Center Fre
10.0	and the second			1	1.908500000 G
1.00 /			_	R I	
0.0					_
10.0			_		_
0.0 marson part				manyan	~~~
0.0					
0.0					
0.0					
~~~					
enter 1.909 GHz				Span 4.5 M	
tes BW 43 kHz	#	VBW 130 kHz		Sweep 2.333	ms 450.000 kł
Occupied Bandwid	th	Total Power	30 :	3 dBm	Auto Ma
		· · · · · · · · · · · · · · · · · · ·			
Ζ.	.6879 MHz				Freq Offs
Transmit Freg Error	3.356 kHz	OBW Power	99	9.00 %	0
x dB Bandwidth	2.890 MHz	x dB	26	00 dB	
	2.090 MHZ	XUB	-20	.00 dB	
5G			STATU	s	

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# Report No.: TERF2204000399E2 Page: 62 of 237

#### Band2 5MHz QPSK RB25 0 CH18625

	rum Analyzer - Occupied BV	/					_	- 🛛 🖉 📄
enter Fre	RF 50 Ω DC eq 1.852500000		SENSE:INT enter Freq: 1.852500000 G ig: Free Run Avg  Atten: 30 dB	ALIGN AUTO Hz Hold:>10/10	Radio Dev		Freq	uency
) dB/div	Ref Offset 14.9 di Ref 30.00 dBn							
og 0.0 0.0			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		1			nter Fre
.0	$\pm A$				\			
0	www.w				L.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
.0								
enter 1.8	53 GHz				Spa	n 7.5 MHz		
Res BW 7			#VBW 240 kHz			1.333 ms	7	CF Ste 50.000 kl
Occupi	ied Bandwidt		Total Power	32.1	l dBm		Auto	M
	4.	4835 MHz					Fr	eq Offs
Transmi	it Freq Error	1.375 kHz	OBW Power	99	9.00 %			0
x dB Ba	ndwidth	4.921 MHz	x dB	-26.	00 dB			

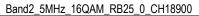
	nd2_5MHz_	QPSK_RB2	5_0_CH189	
Keysight Spectrum Avalyzer - Occupied BV     R	GHz #FGain:Low GHZ Genter #Atten	SENSE:INT Freq: 1.880000000 GHz ree Run Avg Hold : 30 dB	Radio Sto i:>10/10	PM May 20, 2022 I: None vice: BTS
10 distuiv Ref 30.00 dBn				Center Fi 1.880000000 0
Center 1.88 GHz #Res BW 75 kHz	#	VBW 240 kHz		n 7.5 MHz 1.333 ms 750.000
Occupied Bandwidt 4. Transmit Freq Error x dB Bandwidth	h 4865 MHz -361 Hz 4.908 MHz	Total Power OBW Power x dB	32.1 dBm 99.00 % -26.00 dB	Auto M Freq Off
15G			STATUS	

#### Band2 5MHz QPSK RB25 0 CH19175

	trum Analyzer - Occupied	BW				- # 🗙
Center Fr	RF 50 Ω DC eq 1.90750000	Trig:	sense:INT er Freq: 1.907500000 GHz Free Run Avg Hol n: 30 dB	d:>10/10	09:25:17 PM May 20 Radio Std: None Radio Device: B1	Frequency
10 dB/div Log	Ref Offset 14.9 Ref 30.00 dB					
20.0 10.0 0.00 -10.0 -20.0 -30.0		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		unung	human	Center Freq 1.907500000 GHz
-40.0 -50.0 -60.0 Center 1.9 #Res BW		#	€VBW 240 kHz		Span 7.5   Sweep 1.333	
Occup	Occupied Bandwidth 4.4795 MHz		Total Power	32.2	dBm	Auto Man
	iit Freq Error Indwidth	-3.208 kHz 4.926 MHz	OBW Power x dB	99. -26.0	00 % 0 dB	0Hz
MSG				STATUS		

#### Band2\_5MHz\_16QAM\_RB25\_0\_CH18625

enter Freq		#IFG	Z iain:Low			0000 GHz Avg Hold	: 10/10	Radio Std Radio Dev		Frequency
	Ref Offset 14 Ref 30.00 (									
20.0		~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			Center Fre 1.852500000 GH
0.0								1		1.0020000000
0.0								h	m	
0.0										
0.0										
enter 1.853 Res BW 75				#VE	SW 240 k	Hz			n 7.5 MHz 1.333 ms	CF Ste 750.000 kH
Occupie					Total P	ower	31.2	dBm		<u>Auto</u> Ma
			89 MI							Freq Offso
Transmit			947		OBW P	ower		.00 %		
x dB Band	Iwidth		4.929 N	IHZ	x dB		-26.	00 dB		



	trum Analyzer - Occupied B	w				
R	RF 50 Ω DC		SENSE:INT	ALIGN AUTO	09:22:14 PM May 20, 20	22 Frequency
Center Fr	eq 1.88000000	) GHz	Center Freq: 1.880000 Trig: Free Run	000 GHz AvalHold: 10/10	Radio Std: None	riequency
		#IFGain:Low	#Atten: 30 dB	Avginola: 10/10	Radio Device: BTS	
0 dB/div	Ref Offset 14.9 d Ref 30.00 dB					
og 20.0						Center Fre
0.0	m	·····	mmmmmm			1.88000000 GH
1.00					Δ	
0.0	1				$\Lambda$	
20.0	1					
0.0	and the second				Anna an	
						1
10						
0.0						
0.0						
enter 1.1 Res BW			#VBW 240 ki	łz	Span 7.5 MH Sweep 1.333 m	s 750.000 kH
Occup	ied Bandwid	th	Total Po	wer 31.4	4 dBm	Auto Ma
	4	4811 MH	z			Freq Offs
Transm	nit Freq Error	-3.277 kl	z OBW Po	wer 99	9.00 %	01
x dB Ba	andwidth	4.897 MI	lz xdB	-26	.00 dB	

#### Band2 5MHz 16QAM RB25 0 CH19175

	trum Analyzer - Occupied B	N					- 8 🛋
R	RF 50 Ω DC		SENSE:INT Inter Freg: 1,90750000	ALIGN AUTO	09:25:42 PMM Radio Std: N		Frequency
enter Fre	eq 1.907500000	Tr	ig: Free Run 🛛 🖌	vg Hold: 10/10			
		#IFGain:Low #A	tten: 30 dB		Radio Device	BTS	
	Ref Offset 14.9 d	в					
0 dB/div	Ref 30.00 dBr				-		
.og 20.0							0
10.0	an	mm	man	·····			Center Fro
					N I		.907500000 GI
0.00	1				$\land$		
0.0	1				1		
0.0	. and						
0.0 -	00000 1				www	et an an	
0.0							
50.0							
60.0							
Center 1.9							
Res BW			#VBW 240 kHz		Sweep 1.	7.5 MHz	CF Ste
ites bit			#1811 140 km		oncep n	Au	750.000 kl
Occup	ied Bandwid	th	Total Pov	/er 31.3	3 dBm		<u>e</u>
	4	4733 MHz					
		4700 11112					Freq Offs 01
Transm	it Freq Error	-513 Hz	OBW Pov	/er 99	9.00 %		0
x dB Ba	ndwidth	4.904 MHz	x dB	-26	.00 dB		
					-1		
SG				STATU	5		

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# Report No.: TERF2204000399E2 Page: 63 of 237

#### Band2 5MHz 64QAM RB25 0 CH18625

300         0C         ≤ SINGELITI         AUTOR AUTO         00:1146 MPM/s 20.2022           525000000 GHz         Center Free: 1.85200000 GHz         Radio Std: None         Freque           #FGainLow         Trig: Free Run         Avg Hold: 10/10         Radio Std: None         Freque           0ffset 14.9 GB         30.00 dBm         GainLow         Std: Std: None         Freque	incy
30.00 ubii	
Cent 1.852500	erFre 000 G⊦
	F Ste
Bandwidth Total Power 30.5 dBm	.000 kł Ma
4.4888 MHz Freq	Offs
q Error 2.377 kHz OBW Power 99.00 %	01
dth 4.894 MHz x dB -26.00 dB	

R	trum Analyzer - Occupied E RF 50 Ω DC 9q 1.88000000		Trig: Free Run Avg Hold: 10/10			09:22:55 PM May 20, 2022 Radio Std: None Radio Device: BTS		Frequency
0 dB/div	Ref Offset 14.9 Ref 30.00 dB	iB						
og 0.0 0.0		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		· ····				Center Free 1.880000000 GH
0.0								
).0								
enter 1.8	IS GH7					Spa	n 7.5 MHz	
Res BW			#VBW 240	kHz			1.333 ms	CF Ste 750.000 kH
Occup	ied Bandwid	th	Total	Power	30.5	i dBm		<u>Auto</u> Ma
	4	.4876 MH	z					Freq Offs
Transm	Transmit Freq Error		z OBW	Power	99	.00 %		0 Ha
x dB Ba	indwidth	4.929 Mł	lz xdB		-26.	00 dB		

### Band2 5MHz 64QAM RB25 0 CH19175

	ctrum Analyzer - Occupied BV	V					- 3 💌
X R	RF 50 Ω DC	CH- Cente	SENSE:INT r Freq: 1.907500000 GHz	ALIGN AUTO	09:26:36 Radio Ste	PM May 20, 2022	Frequency
Center FI	eq 1.907500000	Trig: I	Free Run Avg Hole	d: 10/10			
		#IFGain:Low #Atter	n: 30 dB		Radio De	vice: BTS	
	Ref Offset 14.9 d						
10 dB/div Log	Ref 30.00 dBr	n		-			
20.0							Center Freq
10.0		monorm	mmmmm	- married	,		1.907500000 GHz
0.00	— A—				-		
-10.0	- /				<u>\</u>		
-20.0					<u> </u>		
-30.0	mont				<u> </u>	home	
-40.0							
-50.0							
-60.0							
Center 1.	000 011-				0	n 7.5 MHz	
#Res BW		#	#VBW 240 kHz			1.333 ms	CF Step 750.000 kHz
			Total Power	20.0	dBm		Auto Man
Occup	oied Bandwidt		Total Power	30.6	авт		
	4.	4907 MHz					Freq Offset
Transn	Transmit Freq Error -4.823 k		Hz OBW Power 99				0 Hz
x dB Ba	andwidth	4.919 MHz	x dB	-26.0	00 dB		
MSG				STATUS			
					1		

#### Band2\_10MHz\_QPSK\_RB50\_0\_CH18650

enter Fr	RF 50 Ω DC eq 1.855000000	Trig:	SENSE:INT er Freq: 1.855000000 GHz Free Run Avg Hol en: 30 dB	Radio d: 10/10	13 PM May 20, 2022 Std: None Device: BTS	Frequency
10 dB/div	Ref Offset 14.9 dl Ref 30.00 dBn					
20.0 10.0 10.0 10.0 20.0 20.0 30.0 50.0 50.0					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Center Fre 1.855000000 GH
Center 1.8 Res BW 1			#VBW 510 kHz		pan 15 MHz Sweep 1 ms	CF Ste 1.500000 MH
Occupied Bandwidth 8.9671 MHz			Total Power	32.3 dBm		Auto Ma
	nit Freq Error Andwidth	20.927 kHz 9.682 MHz	OBW Power x dB	99.00 % -26.00 dB	. I	0 H

#### Band2 10MHz QPSK RB50 0 CH18900

Center Freq 1.880000000 GHZ	quency
	quency
#IFGain:Low #Atten: 30 dB Radio Device: BTS	
Ref Offset 14.9 dB 10 dB/div Ref 30.00 dBm	
-og	enter Frec
	000000 GH
0.0 million and the second sec	
00	
10.0	
Center 1.88 GHz Span 15 MHz Res BW 150 kHz Sweep 1 ms 11	CF Step 500000 MH
Occupied Bandwidth Total Power 32.2 dBm	Mai
	req Offse
Transmit Freq Error 1.789 kHz OBW Power 99.00 %	0 H
x dB Bandwidth 9.749 MHz x dB -26.00 dB	-

#### Band2 10MHz QPSK RB50 0 CH19150

	pectrum Analyzer - Occupie								@
N R	RF 50 Ω D Freq 1.9050000			SENSE:INT r Freq: 1.905000		ALIGN AUTO	09:12:30 P Radio Std	MMay 20, 2022	Frequency
		#IFGain:Low	Trig: F	Free Run h: 30 dB	Avg Hold	: 10/10	Radio Dev		
0 dB/div	Ref Offset 14. Ref 30.00 d								
20.0	~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	man	and man					Center Fr
10.0	- f						t		1.905000000 G
3.00	/						1		
0.0	N. /						λlni.		
0.0 10.0	with the						니까	Marche	
0.0									
0.0									
50.0									
enter 1	1.905 GHz						Sna	n 15 MHz	
	150 kHz		#	VBW 510 kH	Ηz			ep 1 ms	CF Ste 1.500000 M
Occu	pied Bandwi	dth		Total Po	ower	32.3	dBm		<u>Auto</u> M
		8.9745 N	1Hz						Freq Offs
Trans	mit Freq Error	-2.93	8 kHz	OBW Po	wer	99	.00 %		0
x dB B	Bandwidth	9.677	MHz	x dB		-26.	00 dB		
sg						STATU	5		
							1		

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# Report No.: TERF2204000399E2 Page: 64 of 237

#### Band2 10MHz 16QAM RB50 0 CH18650

	m Analyzer - Occupi								
	RF 50 Ω 0 1.8550000	000 GHz	Center	SENSE:INT         ALIGN AUTO           Center Freq: 1.855000000 GHz         Trig: Free Run         Avg Hold: 10/10           #Atten: 30 dB         Auto         Auto			09:02:40 F Radio Std Radio Der		Frequency
0 dB/div	Ref Offset 14 Ref 30.00 d								
og 10.0 0.0		Norman	-^	······	man				Center Fre 1.855000000 GH
00									
0.0 0.0 കംത്തീകരി	want						had	mmm	
.0									
enter 1.85	5 GHz						Spa	in 15 MHz	
es BW 150			#\	/BW 510 kH	lz			eep 1 ms	CF Ste 1.500000 M
Occupie	ed Bandw			Total Po	wer	31.6	dBm		Auto M
		8.9450 N	1Hz						Freq Offs
Transmit	ransmit Freq Error		20.550 kHz		wer	99.00 %			01
x dB Ban	dwidth	9.652	MHz	x dB		-26.	00 dB		

Ref Offset 14.9 dB 10 dB/div Ref 30.00 dBm	
Log 00 000000000000000000000000000000000	Center Frec 1.880000000 GHz
	<del>retalmaterne</del> po
500	
	span 15 MHz Sweep 1 ms
Occupied Bandwidth Total Power 31.5 dBm	Auto Mar
8.9302 MHz	Freq Offse
Transmit Freq Error 10.019 kHz OBW Power 99.00 %	0 H:
x dB Bandwidth 9.620 MHz x dB -26.00 dE	

#### Band2 10MHz 16QAM RB50 0 CH19150

	trum Analyzer - Occuj								
Contor Fr	RF 50 Ω 9q 1.905000			SENSE:INT nter Freg; 1,9050	00000 GHz	ALIGN AUTO	09:13:07 Radio St	PM May 20, 2022	Frequency
Center Fre	ed 1.902000		Tri	g: Free Run		ld:>10/10			
		#IF(	Sain:Low #A	tten: 30 dB			Radio De	vice: BTS	
10 dB/div	Ref Offset 1 Ref 30.00								
20.0									Center Freq
10.0		mm	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	man	1 mar	hormon			1,905000000 GHz
0.00	1						Λ		1.0000000000
-10.0	/						1		
-20.0							5		
-30.0	manufur						1 more	mmon	
40.0									
-50.0									
-60.0									
-00.0									
Center 1.9 Res BW 1				#VBW 510	kHz			an 15 MHz reep 1 ms	CF Step 1.500000 MHz
Occup	ied Bandv	vidth		Total F	Power	31.6	idBm		<u>Auto</u> Man
		8.92	92 MHz						Freq Offset
Transm	it Freq Erro	or	-547 Hz	OBW F	Power	99	.00 %		0 Hz
x dB Ba	ndwidth		9.621 MHz	x dB		-26.	00 dB		
//SG						STATUS			

#### Band2 10MHz 64QAM RB50 0 CH18650

R R	trum Analyzer - Occupied B RF 50 Ω DC	w l	SE	NSE:INT		ALIGN AUTO	09:03:22 F	M May 20, 2022	- 3 2
Center Fre	eq 1.85500000	D GHz #IFGain:Low	Center F	req: 1.85500 e Run			Radio Std	: None	Frequency
0 dB/div	Ref Offset 14.9 c Ref 30.00 dBi								
000 10.0 0.00 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 2				Streen Course of	-16-08 <sup>-7</sup> 1-17-17-17-17				Center Fre 1.855000000 GH
Center 1.8 Res BW 1		*	#VE	3W 510 k		30.4		in 15 MHz eep 1 ms	CF Ste 1.500000 MH Auto Ma
Occup		.9556 M	Hz	rotarr	0.000	50.4	abiii		Freq Offs
Transm	Transmit Freq Error		11.472 kHz		OBW Power		99.00 %		0+
	ndwidth	9.716		x dB		20	00 dB		

Band2	_10MHz_	_64QAM_	_RB50_	0_CH18900	
 Openation (1994)					

2 Frequency	May 20, 2022		ALIGN AUTO		ENSE:INT					
, requeries									RF 50 Ω	
		Radio Std:	10/10	0000 GHz Avg Hold	req: 1.88000		Hz	0000 GH	1.88000	nter Frec
	ice: BTS	Radio Devi	10/10	Avginoid		#Atten:	Gain:Low	#IF		
1								44.0 -	Ref Offset	
									Ref 30.00	dB/div
										3
Center Fr			man	-	mann					0
1.880000000 G		1								0
		ζ.							1	0
-		4							- /	0
-		1. 1								0
	malil	m							and	
										0
CF St	n 15 MHz	Spa							GHz	nter 1.88
1.500000 MI	ep 1 ms	Swe		Hz	BW 510 k	#V			kHz	sBW 150
Auto M		dBm	30.4	ower	Total P			width	d Rand	Occupie
-			00.4						u Ballu	occupie
Freq Offs						HZ	194 MI	8.94		
0		.00 %	99	ower	OBW P	kHz	2.799 k	or	Freq Err	Transmit
					x dB		9.898 M			dB Ban
		00 dB								

#### Band2 10MHz 64QAM RB50 0 CH19150

	ectrum Analyzer - Occupied BW						- 4
R R	RF 50 Ω DC req 1.905000000	GH7 Cente	SENSE:INT r Freq: 1,905000000 GH	ALIGN AUTO	09:13:51 PMI Radio Std; M		Frequency
Jerner P	189 1.305000000	Trig:		lold:>10/10	Radio Devic		
		#IFGain:Low #Atte	n. 30 uB		Radio Devic	0.013	
	Ref Offset 14.9 dl						
0 dB/div	Ref 30.00 dBm	·			<u> </u>		
20.0							Center Fr
10.0				mond			1.905000000 G
0.00						I	
0.0							
20.0							
30.0 <b>/horm</b> /	mannin				- Moor	mound	
40.0							
50.0							
60.0							
Sontor 1	905 GHz				Enan	15 MHz	
les BW		#	VBW 510 kHz			p 1 ms	CF Ste 1.500000 M
						<u> </u>	Auto M
Occu	oied Bandwidt		Total Power	30.	4 dBm		
	8.	9506 MHz					Freq Offs
Transr	nit Freq Error	-8.673 kHz	OBW Power	9	9.00 %		. 0
v dB B	andwidth	9.680 MHz	x dB	-26	.00 dB	ľ	
	anawiaan	3.000 11112	Xub	-20		- 1	
sg				STATU	e		
~				SIAIG	~		

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#### Band2 15MHz QPSK RB75 0 CH18675

	trum Analyzer - Occupied						- # <b>#</b>
enter Fre	RF 50 Ω DC eq 1.85750000		SENSE:INT Center Freq: 1.857500 Trig: Free Run #Atten: 30 dB	08:42:27 P Radio Std Radio Dev		Frequency	
0 dB/div	Ref Offset 14.9 Ref 30.00 de						
<b>9</b> 0.0 0.0		an a	and the second	an a	4		Center Fre 1.857500000 GH
.00					$\land$		
0.0 0.0 gybyrwy	store and the second second				Jun	ghtadyway	
enter 1.8 es BW 2			#VBW 680 k	H7		22.5 MHz eep 1 ms	CF Ste
	ied Bandwid	dth	Total Po		1 dBm		2.250000 M Auto M
	1	3.468 MI	lz				Freq Offs
Transm	ransmit Freq Error		Hz OBW Po	ower 9	9.00 %		0
x dB Ba	Indwidth	14.44 N	Hz xdB	-26	.00 dB		

	Ban	nd2_15MF	Iz_QPSK	_RB75	5_0_0	CH189	900	
	trum Analyzer - Occupied BW							
🗸 R Cepter Fr	RF 50 Ω DC	CH2 0	SENSE:INT Center Freq: 1.88000		LIGN AUTO	08:45:52 P Radio Std	M May 20, 2022	Frequency
	eq 1.000000000		Trig: Free Run	Avg Hold:	10/10			
		#IFGain:Low #	#Atten: 30 dB			Radio Dev	ice: BTS	
10 dB/div	Ref Offset 14.9 di Ref 30.00 dBn							
20.0								Center Freg
10.0	Anster	water and the second as a second as a second se	when a substanting	mm	hann			1.880000000 GHz
0.00						Δ		1.00000000000
-10.0						1		
-20.0						1		
-20.0	and and					- Janar		
-30.0						-46.30	การสุราชาชิ เป็นการสู่การเป็นไป	
-50.0								
-60.0								
Center 1.8 Res BW 2			#VBW 6801	Hz			22.5 MHz ep 1 ms	CF Step 2.250000 MHz
Occup	ied Bandwidt	h	Total P	ower	32.1	1 dBm		<u>Auto</u> Man
	13	3.436 MHz	z					Freq Offset
Transm	it Freq Error	10.204 kH	z OBW P	ower	99	9.00 %		0 Hz
x dB Ba	ndwidth	14.47 MH	z xdB		-26.	.00 dB		
MSG					STATU	5		

#### Band2 15MHz QPSK RB75 0 CH19125

	trum Analyzer - Occupie								
Center Fr	RF 50 Ω 0 eq 1.9025000	000 GHz	Center	SENSE:INT Freq: 1.90250 Free Run : 30 dB	0000 GHz Avg Hole	ALIGN AUTO	Radio St	PM May 20, 2022 d: None wice: BTS	Frequency
10 dB/div	Ref Offset 14. Ref 30.00 d	9 dB							
20.0 10.0		Marina	~~~~~		vrueten.	-aharmany			Center Freq 1.902500000 GHz
-10.0	warm							When are made	
-30.0 -40.0 -50.0									
-60.0 Center 1.9 Res BW 2			#	VBW 680 k	Hz			n 22.5 MHz reep 1 ms	CF Step 2.250000 MHz
Occup	ied Bandwi	idth 13.399 N	/IHz	Total P	ower	32.2	2 dBm		<u>Auto</u> Man Freq Offset
	nit Freq Error andwidth		7 kHz	OBW Po x dB	ower		9.00 % .00 dB		0 Hz
MSG						STATU	s		

#### Band2\_15MHz\_16QAM\_RB75\_0\_CH18675

enter F	RF 50 Ω req 1.85750		łz	Center F	NSE:INT req: 1.85750 e Run	00000 GHz Avg Hold	ALIGN AUTO	08:43:15 Radio St	PM May 20, 2022 d: None	Frequency
		#IF	Gain:Low	#Atten: 3	0 dB			Radio De	vice: BTS	
10 d <u>B/div</u>	Ref Offset Ref 30.0									
_og 20.0										Center Fre
10.0		mound	and have	monthan	m	m	a manage			1.857500000 GH
0.00								<u> </u>		
10.0	{							1		
20.0	f'							h,		
	manne							"marke	haven and the	
40.0										
50.0										
60.0										
	.858 GHz 220 kHz			#VE	3W 680 I	KHz			22.5 MHz eep 1 ms	CF Ste 2.250000 MH
Occu	pied Band	width			Total P	ower	31.3	dBm		<u>Auto</u> Ma
		13.4	32 MI	١z						Freq Offs
Trans	Transmit Freq Error		26.516 kHz		OBW Power		99.00 %			0+
and the second	Bandwidth		14.60 N	IHz	x dB		-26	00 dB		

#### Band2 15MHz 16QAM RB75 0 CH18900

	rum Analyzer - Occupie				ALIGN AUTO			- d -
R Center Fre	RF 50 Ω D aq 1.8800000		SENSE:INT Center Freq: 1.8 Trig: Free Run #Atten: 30 dB	80000000 GHz Avg Hol	Radio De		Frequency	
0 dB/div	Ref Offset 14. Ref 30.00 d							
og 10.0 0.0		-	man and and and a	****	mouse			Center Fre 1.880000000 GH
00						۱.		
0.0 0.0 <b>///www</b> 0.0	munt					had	Kinadow	
0.0 0.0								
enter 1.8 es BW 23			#VBW 6	B0 kHz			22.5 MHz eep 1 ms	CF Ste 2.250000 MH
Occup	ied Bandwi	idth 13.429 MH		al Power	31.3	3 dBm		<u>Auto</u> Ma
Transm	it Freg Error			V Power	99	9.00 %		Freq Offse 0 H
	ndwidth	14.63 M	Hz x dE	3	-26.	00 dB		

#### Band2 15MHz 16QAM RB75 0 CH19125

	ectrum Analyzer - Oc									
R		DC	-		NSE:INT	00000 GHz	ALIGN AUTO	08:50:50 Radio Ste	PM May 20, 2022	Frequency
enter Fi	req 1.90250			Trig: Fre	e Run	Avg Hol	d: 10/10			
		#1F	Gain:Low	#Atten: 3	30 dB			Radio De	vice: BTS	
	Ref Offset	14.9 dB								
0 dB/div	Ref 30.0									
.og										Center Fre
0.0		man	man	mm	annon		manu			1,902500000 GH
		1						N		1.90200000 GI
0.0	6							N		
								1		
0.0	"MUNIPADIT"							John 0	mon	
0.0									Cherch Incirelly	
0.0								-		
50.0	-									
60.0										
	.903 GHz							0	22.5 MHz	
enter 1. les BW				#\/I	<b>BW 680</b>	kH7			eep 1 ms	CF Ste
									•• <b>p</b> •	2.250000 MI Auto M
Occup	oied Band	width			Total I	Power	31.	5 dBm		
		13.4	00 MI	Hz						
										Freq Offs
Transr	nit Freq Eri	or	-9.972	kHz	OBW I	Power	99	9.00 %		"
x dB B	andwidth		14.50 N	1Hz	x dB		-26	.00 dB		
SG							STATU	5		

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#### Band2 15MHz 64QAM RB75 0 CH18675

	rum Analyzer - Oci									
enter Fre	RF   50 Ω 9q 1.85750	0000 G	Hz FGain:Low	Trig: Free Run Avg Hold:>10/10					M May 20, 2022 I: None vice: BTS	Frequency
10 dB/div	Ref Offset Ref 30.0									
-og 20.0 10.0				~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	-				Center Fre 1.857500000 GH
10.00	-/									
20.0 30.0 www.ww	an alle							had	aleman ar	
40.0 50.0										
center 1.8	59 CH7							Snan	22.5 MHz	
les BW 22				#VE	3W 680 H	Hz			eep 1 ms	CF Ste 2.250000 MH
Occup	ied Band				Total P	ower	30.3	dBm		Auto Ma
		13.3	397 MH	z						Freq Offs
Transm	it Freq Err	or	30.803 k	Hz	OBW P	ower	99	.00 %		01
x dB Ba	ndwidth		14.53 M	IHz	x dB		-26.	00 dB		

	Ban	nd2_15MH	z_64QAM	_RB75_0	_CH189	900
CM R	RF 50 Ω DC eq 1.88000000	0 GHz	SENSE:INT Center Freq: 1.880000 Frig: Free Run KAtten: 30 dB	ALIGN AUT 000 GHz Avg Hold: 10/10	08:47:37 PMM Radio Std: N Radio Device	one Frequency
10 dB/div Log 20.0	Ref Offset 14.9 Ref 30.00 dB		and and a start of the start of	-m-merona-to	~	Center Free 1.88000000 GH:
0.00 -10.0 -20.0 -30.0					h h	
-40.0 -50.0 -60.0						
Center 1.8 Res BW 2			#VBW 680 kH	Iz	Span 22 Sweej	p 1 ms 2.250000 MH
Occup	oied Bandwid 1	<sup>ith</sup> 3.402 MHz	Total Po	wer 30	).3 dBm	Auto Mar Freq Offse
	nit Freq Error andwidth	-218 H 14.49 MH			99.00 % 6.00 dB	0 H
MSG				STA	TUS	

### Band2 15MHz 64QAM RB75 0 CH19125

	trum Analyzer - Occu							- # 💌
W R		DC	Conto	SENSE:INT r Freq: 1,902500000 GHz	ALIGN AUTO	08:51:39	M May 20, 2022	Frequency
Center Fr	eq 1.902500	JUUU GHZ	Trig: F	Free Run Avg Hol	ld: 10/10	Radio Sto	. None	
		#IFGain:	Low #Atter	n: 30 dB		Radio De	vice: BTS	
	Ref Offset 1	49 dB						
10 dB/div	Ref 30.00							
20.0								Center Freq
10.0		margan	menning	man man				1,902500000 GHz
	1					λ		1.902600000 GHz
0.00	1					\		
-10.0	5					1		
-20.0						1		
-30.0 <b>0441</b> 542	warmon?"					- Series	where where	
-40.0					-			
-50.0	_					-		
-60.0					_			
Center 1. Res BW 2				VBW 680 kHz			22.5 MHz eep 1 ms	CF Step
Kes DW Z	20 8112		"	VDVV 080 KHZ			eep ma	2.250000 MHz Auto Man
Occur	ied Bandy	vidth		Total Power	30.3	dBm		Auto Man
		13.402						
		13.402						Freq Offset
Transn	nit Freq Erro	or -6	.638 kHz	OBW Power	99	.00 %		0 Hz
x dB B	andwidth	14	.51 MHz	x dB	-26	00 dB		
					20.			
MSG					STATUS			

#### Band2 20MHz QPSK RB100 0 CH18700

2 R Center Fre	RF 50 Ω DC eq 1.860000000	GHz #EGain:Low	Center	SENSE:INT Freq: 1.8600 ree Run - 30 dB	00000 GHz Avg Hol	ALIGN AUTO d: 10/10	Radio Sto	PM May 20, 2022 d: None	Frequency
10 dB/div	Ref Offset 14.9 dE Ref 30.00 dBm	3					Rudio De		
Log 20.0 10.0 0.00 -10.0 -20.0 -20.0 -30.0 -40.0 -50.0 -60.0							h have		Center Fre 1.86000000 GH
Center 1.8 #Res BW 3			#\	/BW 910	kHz			an 30 MHz eep 1 ms	CF Ste 3.000000 MH
Occup	ied Bandwidt 17	հ ′.8 <b>69 M</b>	Hz	Total F	ower	32.0	) dBm		<u>Auto</u> Ma Freq Offse
	iit Freq Error	44.919		OBW F	ower		.00 %		он
x dB Ba	Indwidth	19.16 I	٨Hz	x dB		-26.	00 dB		

#### Band2 20MHz QPSK RB100 0 CH18900

	trum Analyzer - Oci									- d 🛃
Center Fr	RF 50 Ω eq 1.88000		lz	Center F	NSE:INT req: 1.88000 e Run	0000 GHz AvalHold	ALIGN AUTO	08:32:09 F Radio Std	M May 20, 2022 None	Frequency
		#IF	Gain:Low	#Atten: 3				Radio De	vice: BTS	
10 dB/div	Ref Offset Ref 30.0					-				
.og 20.0										Center Free
10.0							erennen er die			1.880000000 GH
0.00	1							l		
20.0	1							h,		
0.0	manand							Law	aproximption	
0.0										
50.0	_									
50.0										
Center 1.5 Res BW				#VE	3W 910 k	Hz			in 30 MHz eep 1 ms	CF Ste 3.000000 MH
Occur	ied Band	width			Total P	ower	32.1	dBm		<u>Auto</u> Ma
occup	Jour Dania		79 MI	Ηz						FreqOffse
Transm	nit Freq Err	ror	7.775	Hz	OBW P	ower	99	.00 %		он
x dB Ba	andwidth		19.22 N	IHz	x dB		-26.	00 dB		

#### Band2 20MHz QPSK RB100 0 CH19100

	ectrum Analyzer - Occ									@
N R	RF 50 Ω Freq 1.90000		1-		NSE:INT rea: 1,90000	0000 GHz	ALIGN AUTO	08:38:36 P Radio Std	M May 20, 2022	Frequency
zenter F	red 1.90000		1Z Gain:Low		e Run	Avg Hold	l: 10/10	Radio Dev		
0 dB/div	Ref Offset Ref 30.00									
20.0										Center Fr
10.0							manner			1.900000000 G
0.00	- /							λ.		
10.0								<del>ال</del> ا		
20.0 30.0 <b></b>	mount							4.4.4	hour warn	
40.0									A CHANGE AND A CHANG	
50.0										
60.0										
enter 1	0 CH7								n 30 MHz	
	300 kHz			#VE	3W 910 H	KHZ			ep 1 ms	CF Ste 3.000000 M
Occu	pied Band	width			Total P	ower	32.1	dBm		<u>Auto</u> M
			42 MI	Ιz						Freq Offs
Trans	mit Freq Err	or	-8.597	Hz	OBW P	ower	99	.00 %		0
x dB E	Bandwidth		19.41 N	IHz	x dB		-26.	00 dB		
sg							STATU	5		1
								1		

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#### Band2 20MHz 16QAM RB100 0 CH18700

	trum Analyzer - Occupied							
R Tenter Fro	RF 50 0 DC eq 1.8600000		SENSE:INT Center Freq: 1.86000 Trig: Free Run #Atten: 30 dB	ALIGN AI 0000 GHz Avg Hold: 10/10	Radio Dev		Frequency	
0 dB/div	Ref Offset 14.9 Ref 30.00 di							
og 10.0 0.0	m		mar and the second second		~~		Center Fre 1.86000000 GH	
.00					1			
0.0 0.0 <b>h</b> arnaan 0.0	www				here	munari		
0.0								
enter 1.8 Res BW			#VBW 910 k	Hz		n 30 MHz ep 1 ms	CF Ste 3.000000 MI	
Occup	ied Bandwi		Total Po	ower 3	31.4 dBm		<u>Auto</u> M:	
Transm	ן it Freq Error	17.895 MH 30.789 kl	-	ower	99.00 %		Freq Offs 0 I	
	ndwidth	19.16 MI	Hz xdB	-	26.00 dB			

	nd2_20MHz_1	16QAM_RB1	100_0	CH1	8900	
If Keylight Spectrum Analyzer - Occupied ■ R RF 50 Ω DC Center Freq 1.88000000	00 GHz #FGain:Low #Atter	SENSE:INT r Freq: 1.88000000 GHz Free Run Avg Hole n: 30 dB	ALIGN AUTO	08:33:00 P Radio Std Radio Dev		Frequency
10 dB/div Ref 30,00 dl 200				Lusa		Center Freq 1.88000000 GHz
Center 1.88 GHz #Res BW 300 kHz	#	VBW 910 kHz			n 30 MHz eep 1 ms	CF Step 3.000000 MHz
Occupied Bandwi	<sup>dth</sup> 17.908 MHz	Total Power	31.4	l dBm		Auto Man Freq Offsel
Transmit Freq Error x dB Bandwidth	-3.866 kHz 19.18 MHz	OBW Power x dB		0.00 % 00 dB		0 Hz
ISG			STATUS	5		

#### Band2 20MHz 16QAM RB100 0 CH19100

	trum Analyzer - Occu							- 3 💌
Center Fr	RF 50 Ω eq 1.900000	DC IOOO GHz #IFGain:	Trig:	SENSE:INT r Freq: 1.900000000 GH Free Run Avg H n: 30 dB	ALIGN AUTO z old: 10/10	Radio Devi		Frequency
10 dB/div	Ref Offset 1 Ref 30.00							
20.0		alahta ya ngani ngan	An An Property Co	and any any state of the second	www.			Center Freq 1.90000000 GHz
-10.0	- /					λ.		
-30.0 -40.0	urusmuttur"					havenes	un yanayiyo	
-50.0								
Center 1.9 #Res BW			#	VBW 910 kHz			n 30 MHz ep 1 ms	CF Step 3.000000 MHz
Occup	oied Bandv	vidth 17.877	/ MHz	Total Power	31.4	4 dBm		Auto Man Freg Offset
	nit Freq Erro andwidth		.023 kHz ).11 MHz	OBW Power x dB		9.00 % .00 dB		0 Hz
MSG					STATU	s		

#### Band2 20MHz 64QAM RB100 0 CH18700

Center Fr	RF 50Ω eq 1.860000	000 GH	Z iain:Low	Center Fr	NSE:INT req: 1.86000 e Run 0 dB		ALIGN AUTO	Radio Sto	PM May 20, 2022 d: None vice: BTS	Frequency
10 dB/div	Ref Offset 14 Ref 30.00 (									
Log 20.0 10.0 0.00 .00 .00 .00 .00 .00		Shannon and			P	Jago 1199 yr 1. Au		how	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Center Fre 1.86000000 GH
Center 1.8 #Res BW	300 kHz ied Bandw				3W 910 k Total P		30.4		an 30 MHz eep 1 ms	CF Ste 3.000000 MH <u>Auto</u> Ma
	nit Freq Erro		63 MH 43.520 k	Hz	OBW P	ower		.00 %		Freq Offse 0 H
x dB Ba	andwidth		19.16 M	IHz	x dB		-26.	00 dB		

#### Band2 20MHz 64QAM RB100 0 CH18900

	rum Analyzer - Occi									- 🗗 赵
R Center Fre	RF 50 Ω eq 1.88000		Hz Gain:Low	Center			ALIGN AUTO	Radio Std		Frequency
0 dB/div	Ref Offset Ref 30.00									
og 0.0 0.0		, allowed	er hater over the			longhanger og	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			Center Fre 1.880000000 GH
00 00 00										
).0	mm Ahd							~~~~	and Alineary Trans	
enter 1.8								Spa	n 30 MHz	CF Ste
Res BW 🔅	300 kHz			#V	/BW 910 kł	lz			ep 1ms	3.000000 MH
Occup	Occupied Bandwidth 17.905 MI Fransmit Freq Error 14.927							dBm		Auto Mi
Transm								.00 %		Freq Offse
x dB Ba	ndwidth		19.23 M	Hz	x dB		-26.	00 dB		
										1

#### Band2\_20MHz\_64QAM\_RB100\_0\_CH19100

	ctrum Analyzer - Occup								
4 R	RF 50 Ω req 1.900000		Cente	SENSE:INT r Freq: 1,90000		ALIGN AUTO	08:39:57 Radio Ste	PM May 20, 2022	Frequency
enter Fi	eq 1.90000		Tria: F	Free Run	Avg Hold	: 10/10			
		#IFGain:Lo	w #Atter	n: 30 dB			Radio De	vice: BTS	
	Ref Offset 14								
0 dB/div og	Ref 30.00	dBm							
20.0				_			<u> </u>		Center Fr
0.0		Manuerus artem	and allowed	m the management	- Marthandra	man			1.900000000 G
1.00							A		
0.0	/						1		
0.0	1						1		
	hand						1 km	and the second s	
0.0									
0.0									
0.0									
0.0									
enter 1.								an 30 MHz	CF Ste
Res BW	300 kHz		#	VBW 910 H	Hz		Sw	eep 1 ms	3.000000 M
0	bied Bandw	d th		Total P	ower	30 /	1 dBm		Auto M
Occup	Jieu Balluw			Total I		50	, april		
		17.874	MHZ						Freq Offs
Transr	nit Freg Erro	r -8.7	56 kHz	OBW P	ower	99	9.00 %		0
v dB B	andwidth	10 3	4 MHz	x dB		-26	00 dB		
x ub b	anawiaan	10.2	4 10112	A GD		-20.	00 00		
5G						STATU	s		

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# Report No.: TERF2204000399E2 Page: 68 of 237

#### Band4 1.4MHz QPSK RB6 0 CH19957

Freq 1.710700000 GHz         Center Freq. 1.71070000 GHz         Radio Skit None         Frequency           #formation         #formation         Avg Hold: 1010         Radio Skit None         Frequency           Ref 076st 14.9 dB         #formation         Avg Hold: 1010         Radio Device: BTS         Ref 0.000 GHz         Center Fre           None         Image: Skit None           Ref 076st 14.9 dB         Marce Skit None         Image: Skit None<	Inter Freq 1.710700000 GHz         Center Freq. 1.70700000 GHz         Radio Ste: None         Frequency           affGainLow         affGainLow         Tright Freq. 1.70700000 GHz         Radio Ste: None         Radio Ste: None           affGainLow         affGainLow         Tright Freq. 1.70700000 GHz         Radio Ste: None         Radio Ste: None           affGainLow         affGainLow         Tright Freq. 1.70700000 GHz         Radio Ste: None         Radio Ste: None           affGainLow         affGainLow         Tright Freq. 1.7070000 GHz         Radio Ste: None         Radio Ste: None           affGainLow         affGainLow         Tright Freq. 1.710         Radio Ste: None         Radio Ste: None           affGainLow         affGainLow         affGainLow         Tright Freq. 1.711         Tright Freq. 1.711           setW 20 kHz         syeep 5.067 ms         Span 2.1 MHz         Natio         Matio           setW 20 kHz         syeep 5.067 ms         Atto         Matio         Matio           Occupied Bandwidth         Total Power         31.5 dBm         Atto         Matio           1.0850 MHz         Transmit Freq Error         -845 Hz         OBW Power         99.00 %         0	Keysight Spectrum Analyzer - Occupied BV	V					
Ref 30.00 dBm         Center Fre           1.711 GHz         Span 2.1 MHz           20 kHz         Span 2.1 MHz           210000 kH         Total Power           31.5 dBm         Auto	aedidiv         Ref 30.00 dBm	R RF 50 Ω DC enter Freq 1.710700000	Trig: I	r Freq: 1.710700000 GHz Free Run Avg Hol	Radio d: 10/10	Std: None	Frequency	
1.711 GHz 20 kHz #VBW 62 kHz Sweep 5.067 ms pied Bandwidth Total Power 31.5 dBm	0         Center Fn           1.171070000 G         Center Fn           1.0250 MHz         Span 2.1 MHz           Freq Offs         Matio           Matio         M           1.0850 MHz         Freq Offs           Transmit Freq Error         -845 Hz         OBW Power         99.00 %	dB/div Ref 30.00 dBr						
I.711 GHz 20 kHz #VBW 62 kHz Sweep 5.067 ms pied Bandwidth Total Power 31.5 dBm	Image: CF St         Span 2.1 MHz           Image: CF St         Span 2.1 MHz           Image: CF St         St           Image: CF St         Span 2.1 MHz           Image: CF St         St	10 10	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	manna				
I.711 GHz 20 kHz #VBW 62 kHz Sweep 5.067 ms pied Bandwidth Total Power 31.5 dBm	Image: second							
20 kHz         #VBW 62 kHz         Sweep 5.067 ms         CP Str           pied Bandwidth         Total Power         31.5 dBm         Auto         M	Image: style	10 mmmmm			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	and the second s		
20 kHz         #VBW 62 kHz         Sweep 5.067 ms         CP Str           pied Bandwidth         Total Power         31.5 dBm         Auto         M	Inter         1.711 GHz         Span 2.1 MHz         CF Str           ts BW 20 kHz         #VBW 62 kHz         Sweep 5.067 ms         Auto         Auto         Auto         M           Occupied Bandwidth         Total Power         31.5 dBm         Freq Offs         Freq Offs           Transmit Freq Error         -845 Hz         OBW Power         99.00 %         0							
20 kHz         #VBW 62 kHz         Sweep 5.067 ms         CP Str           pied Bandwidth         Total Power         31.5 dBm         Auto         M	Image: Start Street Start         Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start	.0						
pied Bandwidth Total Power 31.5 dBm	Occupied Bandwidth Total Power 31.5 dBm 1.0850 MHz Freq Offs Transmit Freq Error -845 Hz OBW Power 99.00 %		#	VBW 62 kHz		ep 5.067 ms	210.000 k	
	Transmit Freq Error -845 Hz OBW Power 99.00 %			Total Power	31.5 dBm	1	<u>Auto</u> M	
i i i i i i i i i i i i i i i i i i i	Transmit Fred Error -645 Hz OBW Power 99.00 %	1.						
mit Freq Error -845 Hz OBW Power 99.00 %	x dB Bandwidth 1.264 MHz x dB -26.00 dB	Transmit Freq Error	-845 Hz	OBW Power	99.00 %		0	
Sandwidth 1.264 MHz x dB -26.00 dB		x dB Bandwidth	1.264 MHz	x dB	-26.00 dE	3 [		

Keysight Spectr	rum Analyzer - Occupied BW		Iz_QPSK_RE	0_0_0	51120110	- 2 -
R Center Fre	RF 50 Ω DC eq 1.732500000	Tr the Tr	SENSE:INT nter Freq: 1.732500000 GHz g: Free Run Avg Ho tten: 30 dB	ALIGN AUTO	10:33:52 AM May 23, Radio Std: None Radio Device: BTS	Frequency
0 dB/div	Ref Offset 14.9 dE Ref 30.00 dBm					
og 20.0 10.0		~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ung		Center Fre 1.732500000 GH
00					Marine Company	
0.0						_
enter 1.7 es BW 20			#VBW 62 kHz		Span 2.1 N Sweep 5.067	ms 210.000 kH
Occupi	ied Bandwidt		Total Power	31.7	′ dBm	Auto Ma
	1.0	0853 MHz				Freq Offs
Transmi	it Freq Error	-539 Hz	OBW Power	99	.00 %	0+
x dB Ba	ndwidth	1.253 MHz	x dB	-26.	00 dB	
9				STATU	*	

#### Band4 1.4MHz QPSK RB6 0 CH20393

	trum Analyzer - Oci		BW									- 6 ×
Center Fr	RF 50 Ω eq 1.75430		0 GF	17	Center	ENSE:INT Freq: 1.75430		ALIGN A	JTO	10:38:08 Radio Ste	AM May 23, 2022 d: None	Frequency
	oq o ioo			Gain:Low	#Atten:		Avg Hold	i: 10/10		Radio Device: BTS		
10 dB/div	Ref Offset Ref 30.0											
20.0			,	-	~~~~	mm	m					Center Freq
0.00		ľ										1.754300000 GHz
-10.0	- /	Ĥ								<u> </u>		
-20.0 -30.0	mar									J.	man	
-40.0												
-60.0	_											
Center 1.7 Res BW 2					#V	'BW 62 kH	Iz				n 2.1 MHz 5.067 ms	CF Step 210,000 kHz
Occup	ied Band	wid	th			Total P	ower	:	31.6	dBm		<u>Auto</u> Man
		1	.08	57 MI	Ηz							Freq Offset
	nit Freq Err	or		-1.668		OBW P	ower			.00 %		0 Hz
x dB Ba	andwidth			1.267 N	IHz	x dB		-	26.	00 dB		
MSG								5	TATUS			

#### Band4\_1.4MHz\_16QAM\_RB6\_0\_CH19957

R Center Fre	RF 50 Ω DC 9q 1.710700000		Center	SENSE:INT Freq: 1.71070 ree Run : 30 dB	0000 GHz Avg Hole	ALIGN AUTO	Radio Sto	AM May 23, 2022 d: None wice: BTS	Frequency
0 dB/div -99 20.0 0.00 20.0 20.0 20.0 	Ref Offset 143 o Ref 30.00 dBr						Share bayer		Center Fre 1.710700000 GH
Center 1.7 Res BW 20			#\	/BW 62 kH	łz			in 2.1 MHz 5.067 ms	CF Ste 210.000 kH Auto Ma
Occupi	ied Bandwid 1.	<sup>th</sup> .0828 N	/IHz	Total P	ower	30	8 dBm		Auto Ma Freq Offse
			94 kHz OBW Power 60 MHz x dB		99.00 % -26.00 dB			он	

# Band4 1.4MHz 16QAM RB6 0 CH20175

reg 1.732500000 GHz Center reg. 1.75260000 GHz Radio Sta. Hole	quency
#IFGain:Low #Atten: 30 dB Radio Device: BTS	
Ref Offset 14.9 dB	
Ref 30.00 dBm	
Cr	enter Fre
	00000 GH
manna hanna	
.733 GHz Span 2.1 MHz 20 kHz #VBW 62 kHz Sweep 5.067 ms <sub>2</sub>	CF Ste 10.000 kł
pied Bandwidth Total Power 30.9 dBm	Ma
	req Offs
mit Freq Error 3.350 kHz OBW Power 99.00 %	01
Bandwidth 1.264 MHz x dB -26.00 dB	

### Band4 1.4MHz 16QAM RB6 0 CH20393

Keysight Spectrum Analyzer - Occupied BW					- 3 🖬
R RF 50 Ω DC		SENSE:INT	ALIGN AUTO	10:39:12 AM May 23, 2	Frequency
Center Freq 1.754300000		r Freq: 1.754300000 GHz Free Run Avg Hol	ld: 10/10	Radio Std: None	,
	#IFGain:Low #Atter	n: 30 dB		Radio Device: BTS	_
Ref Offset 14.9 df	3				
0 dB/div Ref 30.00 dBm	<u> </u>				
20.0					Center Fre
0.0	mon	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	mm		1.754300000 G
1.00					_
0.0					
nn				N	
n harden				Manne	~
0.0					
00					
50.0					
0.0					
enter 1.754 GHz				Span 2.1 M	
tes BW 20 kHz	#	VBW 62 kHz		Sweep 5.067 r	ns 210.000 kl
Occupied Bandwidt	h	Total Power	30.8	dBm	Auto M
1.0	0862 MHz				Freq Offs
Transmit Freq Error	3.293 kHz	OBW Power	99.	.00 %	0
x dB Bandwidth	1.267 MHz	x dB	-26 (	00 dB	
		X db	2010		
sg			STATUS		

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#### Band4 1.4MHz 64QAM RB6 0 CH19957

											um Analyzer -		
Frequency	None	Radio Device: BTS			SENSE:INT         ALIGN AUTO           Center Freq: 1.710700000 GHz         Trig: Freq Run Avg Hold: 10/10           #Atten: 30 dB         Avg Hold: 10/10			Z ain:Low	00 GH	50 Ω 0700	rse   5 q 1.710		R ente
											Ref Off Ref 30	div	dB/
Center Fre 1.710700000 GI					r~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~	~~~~	~~~^~~	~	_			og 0.0 0.0
			L.							, de	_		.00 0.0
	mun	how								4	www.	~~~~~	0.0 0.0 •
													0.0 0.0 -
													0.0
CF Ste 210.000 ki	1 2.1 MHz 5.067 ms				z	₩ 62 kH	#VE					er 1.71 SW 201	
Auto M	Δ	dBm	29.7	:	ower	Total P				ndw	ed Bar	cupie	00
Freq Offs							IZ	72 MH	1.08				
0		99.00 %		127 Hz OBW Power		127	ransmit Freq Error		Tra				
			26.0			x dB		1.278 M			ndwidth		

Keysight Spectrum Analyzer -		+_1.4IVI⊓⊿	2_64QAM_F	0_0_		175	- 8 <b>-</b>
R RF 5	Ω DC 500000 G		SENSE:INT ter Freq: 1.732500000 GH		10:35:10 AM	May 23, 2022 None	Frequency
	#1		:FreeRun Avg H en:30 dB	old: 10/10	Radio Devi	ce: BTS	
	et 14.9 dB .00 dBm						
<b>9</b>							Center Fre
1.0	+m	handren	mmmmmm	m			1.732500000 G
00				7			
10	4				man	and the state of t	
.0	_			_			
10							
10							
enter 1.733 GHz			(1) (T) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1			2.1 MHz	CF Ste
s BW 20 kHz			#VBW 62 kHz		Sweep	5.067 ms	210.000 ki Auto M
Occupied Bar			Total Power	30.	7 dBm		
	1.08	359 MHz					Freq Offs
Transmit Freq I	rror	943 Hz	OBW Power	99	9.00 %		01
x dB Bandwidth	I	1.266 MHz	x dB	-26	.00 dB		

#### Band4 1.4MHz 64QAM RB6 0 CH20393

	trum Analyzer - Occupied	BW				
CM/R	RF 50 Ω DC		SENSE:INT er Freg: 1,754300000 GHz	ALIGN AUTO 10:40:10 Radio St	AM May 23, 2022	Frequency
Center Fr	eq 1.75430000		Free Run AvalHol		a: None	,
		#IFGain:Low #Atte	n: 30 dB	Radio D	evice: BTS	
	Ref Offset 14.9	-10				
10 dB/div	Ref 30.00 dB					
Log						
20.0						Center Freq
10.0		mound		mund		1.754300000 GHz
0.00	1					
-10.0				<u> </u>		
-20.0	/					
-30.0	man			~~~	manna and a start and a start a	
-40.0						
-50.0						
-60.0						
Center 1.	754 CH2			Sn	an 2.1 MHz	
Res BW 2		#	¥VBW 62 kHz	Sweep	5.067 ms	CF Step 210.000 kHz
				· · · · ·		Auto Man
Occup	ied Bandwic	lth	Total Power	29.7 dBm		
	1	.0866 MHz				Freq Offset
						0 Hz
Transm	nit Freq Error	622 Hz	OBW Power	99.00 %		0112
x dB Ba	andwidth	1.272 MHz	x dB	-26.00 dB		
MSG				STATUS		

#### Band4 3MHz QPSK RB15 0 CH19965

R	RE 50 Ω DC		SENSE:INT		ALIGN AUTO	10-10-52	M May 23, 2022	
	eq 1.711500000		Center Freq: 1.71150 Frig: Free Run Atten: 30 dB			Radio Std	: None	Frequency
10 dB/div	Ref Offset 14.9 dB Ref 30.00 dBm							
20.0 10.0 0.00 10.0 20.0					-^^~~		m	Center Fre 1.711500000 GH
40.0 50.0 60.0								
Center 1.7 Res BW 4			#VBW 1301	kHz			n 4.5 MHz 2.333 ms	CF Ste 450.000 kH
Occup	ied Bandwidth 2.6	ո 6847 MHz	Total P	'ower	32.0	) dBm		Auto Ma Freq Offse
Transm	it Freq Error	-322 H	Iz OBW Power			.00 %	0+	
x dB Ba	ndwidth	2.891 MH	z xdB		-26.	00 dB		

# Band4 3MHz QPSK RB15 0 CH20175

a weyingin spe	RE 50.0 DC	•	I and a start				
ĸ	RF 50 Ω DC reg 1.732500000		SENSE:INT Center Freq: 1.73250	ALIGN AUT	0 10:15:57 A Radio Std	M May 23, 2022	Frequency
enter Fr	eq 1.732500000		Trig: Free Run	Avg Hold:>10/10	Radio Sta	None	
		#IFGain:Low	#Atten: 30 dB		Radio Dev	ice: BTS	
	Ref Offset 14.9 di	0					
10 dB/div	Ref 30.00 dBn						
og							
20.0			m	mmmm	~		Center Fre
10.0					1		1.732500000 GH
0.00							
10.0							
20.0					- hours	man	
10.0							
0.0							
0.0					-		
0.0					-		
optor 1	733 GHz					14.5 MHz	
es BW 4			#VBW 130 H	(H7		2.333 ms	CF Ste
					p	21000 1110	450.000 ki Auto M
Occur	bied Bandwidt	h	Total P	ower 32	2.1 dBm		
		6806 MH					
	۷.		2				Freq Offs
Transn	nit Freq Error	2.478 kH	Z OBW P	ower	99.00 %		01
	-	0.000 MU					
x aB B	andwidth	2.893 MH	z xdB	-2	6.00 dB		

#### Band4 3MHz QPSK RB15 0 CH20385

	ctrum Analyzer - Occupied BW	1					
N R	RF 50 Ω DC	CH- Cente	SENSE:INT r Freq: 1.753500000 GHz	ALIGN AUTO	10:21:20	M May 23, 2022	Frequency
enter Fr	eq 1.753500000	Trig:		ld: 10/10			
		#FGain:Low #Atte	n: 30 dB		Radio De	vice: BTS	
	Ref Offset 14.9 dE Ref 30.00 dBm						
0 dB/div og	Ref 30.00 dBm	·		-			
20.0	. 00			h			Center Fre
0.0				and another		-	1.753500000 GI
.00	- /			-	1	-	
0.0	- 1				$\left  \right\rangle$		
0.0	mm				1		
0.0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			_		- marine	
40.0							
50.0							
50.0							
enter 1.	754 GHz				Sna	n 4.5 MHz	
les BW 4		#	VBW 130 kHz			2.333 ms	CF Ste 450.000 ki
0	i a d. Dava du dalak	<b>L</b>	Total Power	22.0	dBm		<u>Auto</u> M
Occup	pied Bandwidt		Total Fower	52.0	ubiii		
	2.0	6832 MHz					Freq Offs
Transn	nit Freq Error	-146 Hz	OBW Power	99	.00 %		0
x dB B	andwidth	2.897 MHz	x dB	-26	00 dB		
		2.007 11112	X 42	20.			
9G				STATUS			
53				STATUS			

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#### Band4 3MHz 16QAM RB15 0 CH19965

	ctrum Analyzer - Oci										- 6
R enter Fr	RF 50 Ω req 1.71150		<b>HZ</b> Gain:Low	Center F		00000 GHz Avg Hold	ALIGN AUTO	10:13:34 / Radio Std Radio Der		Fi	equency
d <u>B/div</u>	Ref Offset Ref 30.0										
10 1.0		m		wm		~~~~					Center Fro 1500000 GI
	/							<u> </u>			
	m							1 m	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
	712 GHz 13 kHz			#V	BW 1301	(Hz			n 4.5 MHz 2.333 ms		CF Ste 450,000 k
Occup	oied Band		847 MI	J-7	Total P	ower	31.2	2 dBm		<u>Auto</u>	M
Transn	nit Freq Err		1.175		OBW P	ower	99	9.00 %			Freq Offs 01
x dB Bi	andwidth		2.910 N	IHz	x dB		-26.	00 dB			

	nd4_3MHz_1	6QAM_RB1	5_0_CH20	
Keyight Spectrum Analyzer - Occupied B R RF 50 Ω DC Center Freq 1.73250000 Ref Offset 14.9 d 10 dB/div Ref 30.00 dBr	I GHz #FGain:Low #Atten B	SENSE:INT Freq: 1.732500000 GHz ree Run Avg Hold : 30 dB	Radio Std:	
				Center Freq 1.73250000 GHz
Center 1.733 GHz Res BW 43 kHz	#	VBW 130 kHz		4.5 MHz CF Step 2.333 ms 450,000 kHz
Occupied Bandwid	<sup>h</sup> 6849 MHz	Total Power	31.2 dBm	Auto Man Freq Offset
Transmit Freq Error x dB Bandwidth	4.900 kHz 2.915 MHz	OBW Power x dB	99.00 % -26.00 dB	0 Hz
IISG			STATUS	

#### Band4\_3MHz\_16QAM\_RB15\_0\_CH20385

	ectrum Analyzer - Occ					_				- 6 ×
Center F	RF 50 Ω Freq 1.75350		17		NSE:INT reg: 1.75350	0000 GHz	ALIGN AUTO	10:21:58 / Radio Std	M May 23, 2022	Frequency
Contor I	100 1.70000		Gain:Low		e Run	Avg Hold	: 10/10	Radio De	deal DTC	
		#IFI	Gain:Low	#Atten: 3	U db			Radio De	/ice: B15	
10 dB/div	Ref Offset Ref 30.00									
Log	Kei Julio	, abiii								
20.0		mm	m	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	mm	mm				Center Freq
10.0		r						l l		1.753500000 GHz
-10.0	1							1		
								$\left  \right\rangle$		
-20.0	math							hur	man	
-30.0										
-50.0										
-60.0										
-60.0										
	.754 GHz								n 4.5 MHz	CF Step
Res BW	43 kHz			#VE	3W 130 k	Hz		Sweep	2.333 ms	450.000 kHz
Occu	pied Band	width			Total P	ower	31.3	dBm		Auto Man
			49 MI	47						
										Freq Offset 0 Hz
Trans	mit Freq Err	or	2.455	Hz	OBW P	ower	99	.00 %		0 Hz
x dB B	Bandwidth		2.906 N	IHz	x dB		-26.	00 dB		
MSG							STATUS	5		

#### Band4 3MHz 64QAM RB15 0 CH19965

enter Fr	RF 50 Ω DC eq 1.711500000		SENSE:INT Center Freq: 1.71150 Trig: Free Run Atten: 30 dB	ALIGN AU 0000 GHz Avg Hold: 10/10	Radio Std: N	Frequency
10 dB/div	Ref Offset 14.9 d Ref 30.00 dBr					
Log 20.0 10.0 10.0 20.0 20.0 30.0 40.0 50.0 60.0						Center Fre
Center 1.3 Res BW 4			#VBW 130 k	Hz	Span 4 Sweep 2.3	333 ms 450.000 kH
Occup	ied Bandwidt 2.	<sup>:h</sup> 6887 MHz	Total Po	ower 3	0.3 dBm	Auto Ma
Transm	nit Freq Error	3.512 kH	Z OBW P	ower	99.00 %	он
x dB Ba	andwidth	2.889 MH	z xdB	-1	26.00 dB	

### Band4 3MHz 64QAM RB15 0 CH20175

📕 Keysight Spec	trum Analyzer - Occupied	BW								X
enter Fr	RF 50 Ω DC eq 1.73250000	00 GHz	Center F	NSE:INT req: 1.73250	0000 GHz	ALIGN AUTO	10:17:03 Radio Sto	M May 23, 2022 None	Fr	equency
	·	#IFGain:Low	#Atten: 3		Avg Hold	: 10/10	Radio De	vice: BTS		
0 dB/div	Ref Offset 14.9 Ref 30.00 dE									
<b>99</b> 0.0										Center Fre
1.0			~~~~~	han	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	m				2500000 GH
	- A									
.0							1 C			
10	mound							and the second		
.0										
.0										
0.0										
enter 1.7								n 4.5 MHz		CF Ste
es BW 4	3 kHz		#VE	BW 130 k	Hz		Sweep	2.333 ms	<b>.</b> .	450.000 kH
Occup	ied Bandwid	ith		Total P	ower	31.2	dBm		Auto	Ма
	2	.6882 MI	Ηz							Freq Offs
Transm	nit Freg Error	6.560	Hz	OBW P	ower	99	.00 %			0 1
x dB Ba	andwidth	2.906 N	IHz	x dB		-26.	00 dB			

#### Band4 3MHz 64QAM RB15 0 CH20385

	um Analyzer - Occupied B	W				Ø
R	RF 50 Ω DC		SENSE:INT Center Freq: 1.753500000	ALIGN AUTO	10:22:53 AM May 23 Radio Std: None	Frequency
enter Fre	q 1.75350000	· • • 1	rig: Free Run A	/g Hold: 10/10		
		#IFGain:Low #	Atten: 30 dB		Radio Device: BT	s
	Ref Offset 14.9 d	в				
10 dB/div	Ref 30.00 dBr	m				
_og 20.0						Center Fre
10.0		mm	mann	m	~	1.753500000 G
0.00	1				A I	1.755500000 G
10.0						
20.0						
m	mont				man	ww
30.0						_
40.0						_
50.0						
60.0						_
Center 1.7	54 GHz				Span 4.5 I	MH2
Res BW 43			#VBW 130 kHz		Sweep 2.333	
					•	Auto M
Occupi	ed Bandwid	th	Total Pow	er 30.	4 dBm	
	2.	6859 MHz	2			Freq Offs
-		5 704 111	0.000			0
Transmi	it Freq Error	5.724 kH	Z OBW Pow	er 9	9.00 %	
x dB Ba	ndwidth	2.892 MH	z xdB	-26	.00 dB	
sg				STATU	15	

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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#### Band4 5MHz QPSK RB25 0 CH19975

	n Analyzer - Occupied	BW								- 6 ×
Center Freq	50 Q DC 1.71250000	0 GHz	Center	ENSE:INT Freq: 1.712500 ee Run		ALIGN AUTO	Radio Std		Fr	equency
10 dB/div	Ref Offset 14.9 Ref 30.00 dE		#Atten:	30 dB			Radio Dev	rice: BTS		
20.0 10.0		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		~~~~~~	~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				Center Fred 2500000 GH2
-10.0 -20.0	m							mn		
-30.0										
-60.0 Center 1.713	3 GHz						Spar	1 7.5 MHz		
#Res BW 75			#V	'BW 240 kH	z			1.333 ms		CF Step 750.000 kH
Occupie	d Bandwic			Total Po	wer	32.2	dBm		Auto	Mar
	4	.4841 M	HZ							req Offse
Transmit	Freq Error	-5.377	kHz	OBW Po	wer	99	.00 %			0 H
x dB Band	dwidth	4.909	ЛНz	x dB		-26.	00 dB			

		d4_5MHz_	_QPSK_RB	25_0_C	H2017	5	
Center Freq 1	lef Offset 14.9 dB	Trig:	SENSE:INT er Freq: 1.732500000 GH Free Run Avg H en: 30 dB	lold:>10/10	10:04:49 AM Ma Radio Std: No Radio Device:	one	Frequency
10 dB/div F Log 20.0 10.0 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.0	tef 30.00 dBm						Center Freq 1.732500000 GHz
-50.0 -60.0 Center 1.733 ( #Res BW 75 k			#VBW 240 kHz		Span 7. Sweep 1.3	333 ms	CF Step 750.000 kH2
Occupied Transmit F x dB Bandy	req Error	789 MHz 3.303 kHz 4.927 MHz	Total Power OBW Power x dB	99.	dBm 00 % 00 dB		Auto Mar Freq Offsel 0 Ha
MSG				STATUS			

#### Band4 5MHz QPSK RB25 0 CH20375

	ght Spectrum Analyzer - Or										
(XIR	RF 50 C			SENSE			ALIGN AUTO	10:08:38 A Radio Std	M May 23, 2022	Fr	equency
Cente	er Freq 1.7525	00000 GH	-IZ	Center Freq Trig: Free R	1.70200	Avg Hold	10/10	Radio Std	: None	I	
		#IF	Gain:Low	#Atten: 30 c	B	, in girlord		Radio Dev	ice: BTS		
10 dB/	Ref Offse div Ref 30.0										
Log	uv Kei Ju.										
20.0											Center Frea
10.0		frank		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~		manne			1.75	2500000 GHz
0.00		1						/			
-10.0	1							ł			
								1			
-20.0	mont	-						two	mm-		
-30.0	<u>, , , , , , , , , , , , , , , , , , , </u>	+							1110		
-40.0											
-50.0											
-60.0											
	er 1.753 GHz								n 7.5 MHz		CF Step
#Res	BW 75 kHz			#VBW	/ 240 k	Hz		Sweep	1.333 ms		750.000 kHz
										Auto	Man
00	cupied Band	lwidth			otal P	ower	32.2	dBm			
		4.48	54 MH	z							Freq Offset
											0 Hz
Tra	insmit Freq Er	ror	-4.452 kH	iz C	DBW P	ower	99	.00 %			0 112
xd	B Bandwidth		4.926 MH	lz x	dB		-26.	00 dB			
MSG							STATUS				

### Band4\_5MHz\_16QAM\_RB25\_0\_CH19975

Zenter Fro	RF 50 Ω DC 0 eq 1.712500000	#IFGain:Low #Atter	sense:INT r Freq: 1.712500000 GHz Free Run Avg Ho n: 30 dB	ld: 10/10	Radio Std:		Frequency
10 dB/div Log 20.0 10.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0.0 .0	Ref 30.00 dBn						Center Fre 1.712500000 GH
-50.0 -60.0 Center 1.7 #Res BW			VBW 240 kHz		Spar	n 7.5 MHz 1.333 ms	CF Ste
	ied Bandwidt		Total Power	31.2		1.333 1115	750.000 kH Auto Ma Freq Offse
	iit Freq Error andwidth	-5.123 kHz 4.885 MHz	OBW Power x dB	99. -26.0	00 % 0 dB		οH

#### Band4 5MHz 16QAM RB25 0 CH20175

	um Analyzer - Occupied	BW				
R Center Fre	RF 50 Ω DC q 1.73250000		sense:INT Freq: 1.732500000 GHz Free Run Avg Hol	Radio St	AM May 23, 2022 d: None	Frequency
			n: 30 dB	Radio De	vice: BTS	
10 dB/div	Ref Offset 14.9 Ref 30.00 dE					
og 20.0						Center Fre
0.0	1 m			hard		1.732500000 GH
0.0						
0.0	m		_			
0.0						
0.0						
0.0						
enter 1.73 Res BW 7			VBW 240 kHz		in 7.5 MHz 1.333 ms	CF Ste 750.000 kH
Occupi	ed Bandwic		Total Power	31.2 dBm		Auto Ma
	4	.4855 MHz				Freq Offse
Transmi	t Freq Error	2.048 kHz	OBW Power	99.00 %		0 H
x dB Ba	ndwidth	4.942 MHz	x dB	-26.00 dB		

#### Band4 5MHz 16QAM RB25 0 CH20375

	um Analyzer - Occupied BW	/					
R R	RF 50 Ω DC q 1.752500000	CH- Cente	SENSE:INT r Freg: 1,752500000 GH	ALIGN AUTO	10:09:04 AM M		Frequency
	q 1.752500000	Trig:		lold: 10/10	Radio Device		
0 dB/div	Ref Offset 14.9 di Ref 30.00 dBn						
.og 20.0				_			Center Fr
10.0	- primin		warmen	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			1.752500000 G
0.00					A l		
10.0							
20.0	unut the				Lunna	~~~~	
40.0							
50.0							
60.0							
Center 1.75 Res BW 7		ŧ	VBW 240 kHz		Span 7 Sweep 1.3		CF Ste 750.000 k
Occupi	ed Bandwidt	h	Total Power	31.	2 dBm	A	uto M
	4.	4810 MHz					Freq Offs
Transmi	it Freq Error	-2.149 kHz	OBW Power	9	9.00 %		0
x dB Bai	ndwidth	4.922 MHz	x dB	-26	.00 dB		
sg				STATL	IS		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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### Report No.: TERF2204000399E2 Page: 72 of 237

#### Band4 5MHz 64QAM RB25 0 CH19975

	rum Analyzer - Occupied BW							5 💌
Center Fre	eq 1.712500000	Tri	SENSE:INT nter Freq: 1.7125000 g: Free Run tten: 30 dB	ALIGN AUTO 00 GHz Avg Hold: 10/10	Radio Dev		Frequer	су
10 dB/div	Ref Offset 14.9 dB Ref 30.00 dBm							
20.0 10.0 0.00	- Andrew - A		-^	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			Cente 1.7125000	
20.0 30.0 40.0					- Annormality - Contraction of the contraction of t	^~~~~		
50.0 60.0					-	7.6 Mile		
Res BW			#VBW 240 kH	z	Spar Sweep	1.333 ms	CF 750.0	Ste
Occup	ied Bandwidth		Total Po	wer 30.3	7 dBm		Auto	Ma
	4.4	921 MHz					Freq	
Transm	it Freq Error	-6.126 kHz	OBW Pov	ver 99	9.00 %			0 F
x dB Ba	ndwidth	4.900 MHz	x dB	-26	00 dB			

	Ban	d4_5MHz_	64QAM_RB2	25_0_CH20	)175	
Center Fr	trum Analyzer - Occupied 8W RF 50 Ω DC eq 1.732500000 Ref Offset 14.9 di	GHz Cen #FGain:Low #Att	SENSE:INT ter Freq: 1.732500000 GHz : Free Run AvgjHol en: 30 dB	Radio S d: 10/10	t AM May 23, 2022 td: None evice: BTS	Frequency
10 dB/div 20.0 10.0 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .000 .0000 .000 .000 .000 .000 .000 .000 .000 .000 .000	Ref 30.00 dBn					Center Freq 1.732500000 GHz
-60.0 Center 1.7 #Res BW			#VBW 240 kHz Total Power		an 7.5 MHz o 1.333 ms	CF Step 750.000 kHz <u>Auto</u> Man
Transm		4829 MHz 12.577 kHz 4.889 MHz	OBW Power x dB	99.00 % -26.00 dB		Freq Offset 0 Hz
MSG				STATUS		

### Band4 5MHz 64QAM RB25 0 CH20375

	trum Analyzer - Occupie								- 0 ×
Center Fre	eq 1.7525000	000 GHz	Center	SENSE:INT Freq: 1.75250 Free Run :: 30 dB	0000 GHz Avg Hol	ALIGN AUTO	Radio St	AM May 23, 2022 d: None wice: BTS	Frequency
10 dB/div	Ref Offset 14. Ref 30.00 d								
20.0				~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				Center Freq 1.752500000 GHz
-10.0							L L		
-30.0 -40.0 -50.0									
60.0 Center 1.7 ≇Res BW ∷			#	VBW 240 k	Hz			in 7.5 MHz 1.333 ms	CF Step 750,000 kHz
Occup	ied Bandw	idth 4.4925 N	IHz	Total P	ower	30.6	ð dBm		Auto Man Freq Offset
	it Freq Error Indwidth		kHz	OBW P x dB	ower		9.00 % .00 dB		0 Hz
//SG						STATU	5		

#### Band4\_10MHz\_QPSK\_RB50\_0\_CH20000

enter Fro	RF 50Ω DC eq 1.715000000		SENSE:INT enter Freq: 1.715000000 ( rig: Free Run Avg Atten: 30 dB	ALIGN AUTO GHz  Hold:>10/10	09:44:05 AM May 23, 20 Radio Std: None Radio Device: BTS	Frequency
0 dB/div	Ref Offset 14.9 dB Ref 30.00 dBm					
og 20.0 10.0 20.0 20.0 20.0 40.0 50.0 50.0 50.0					hanna	Center Free 1.715000000 GH
Center 1.7 Res BW 1			#VBW 510 kHz		Span 15 MH Sweep 1 m	
Occup	ied Bandwidth 8.9	, 9672 MHz	Total Powe	r 32.3	dBm	Auto Ma
Transm	it Freq Error	-8.396 kHz	OBW Powe	r 99	.00 %	0 H
v dB Ba	ndwidth	9.685 MHz	x dB	-26.0	00 dB	

#### Band4 10MHz QPSK RB50 0 CH20175

	rum Analyzer - Occ									- 8 ×
enter Fre	RF 50 Ω 9q 1.73250	0000 GH	<b>lz</b> Gain:Low	Center F		0000 GHz Avg Hold	ALIGN AUTO	Radio De		Frequency
10 dB/div	Ref Offset Ref 30.00									
		A				*/har-shaper***				Center Fred 1.732500000 GHz
enter 1.7 es BW 13				#VE	510 k	Hz			an 15 MHz eep 1 ms	CF Step 1,50000 MH
Occup	ied Band		95 MI	Ηz	Total P	ower	32.4	ldBm		Auto Mar Freq Offse
	it Freq Ern ndwidth	or	24.762   9.665 N		OBW P x dB	ower		0.00 % 00 dB		он: 

#### Band4 10MHz QPSK RB50 0 CH20350

		DO GHz #IFGain:	Low:	Center Fr			ALIGN AUTO	Radio Std: Radio Dev		Frequency
10 dB/div	Ref Offset 14.9	#IFGain:		Trig: Free	e Run		:>10/10			
10 dB/div										
og										
20.0										Center Fr
10.0	~			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	mm	meren	munan			1.750000000 G
0.00	/							<u>\</u>		
10.0	/							<u>\</u>		
20.0								ha		
30.0 M.M.M.M.										
40.0										
50.0										
60.0			-							
Center 1.75 G Res BW 150 I				#\/E	3W 510 k	·U7			n 15 MHz ep 1 ms	CF Ste
Occupied		dth		#¥L	Total P		32.3	dBm	<u> </u>	1.500000 M Auto M
	8	3. <b>96</b> 18	B MH	łz						Freq Offs
Transmit F	req Error		-292	Hz	OBW P	ower	99	.00 %		0
x dB Band	width	9.	691 M	Hz	x dB		-26.	00 dB		
sg							STATUS			

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# Report No.: TERF2204000399E2 Page: 73 of 237

#### Band4 10MHz 16QAM RB50 0 CH20000

Keysight Spect	rum Analyzer - Occupied E RF 50 Ω DC	W		NSE:INT		ALIGN AUTO	09:44:50 A	M May 23, 2022	
Center Fre	eq 1.71500000	0 GHz #IFGain:Low		req: 1.71500 e Run 30 dB	0000 GHz Avg Hold:	10/10	Radio Std Radio Dev		Frequency
0 dB/div	Ref Offset 14.9 d Ref 30.00 dB								
.og 20.0 10.0	- m	-	~~~~	<b>****</b> ***	himan	a-lar-mar			Center Fre 1.715000000 GH
0.0								-m.	
0.0									
enter 1.7 es BW 1			#VE	3W 510 k	Hz			n 15 MHz ep 1 ms	CF Ste 1.500000 MI
Occup	ied Bandwid			Total P	ower	31.5	ō dBm		Auto M
	8	.9300 M	HZ						Freq Offs
Transm	it Freq Error	-2.923	kHz	OBW P	ower	99	0.00 %		01
x dB Ba	ndwidth	9.606 N	ЛНz	x dB		-26.	00 dB		

	Band	d4_10MH	z_16QAM	_RB50_0	_CH20	175	
Center Fred	m Analyzer - Occupied 5W № 50 Ω DC   1.732500000 Ref Offset 14.9 dE	GHz #FGain:Low	SENSE:INT Center Freq: 1.732500 Trig: Free Run #Atten: 30 dB	ALIGN AUTO 000 GHz Avg Hold:>10/10	09:49:51 A Radio Std: Radio Devi		Frequency
10 dB/div Log 200 100 0.00 -000 -000 -000 -000 -000 -00	Ref 30.00 dBm					j	Center Freq 1.732500000 GHz
Center 1.73 Res BW 150	) kHz		#VBW 510 kl		Swe	n 15 MHz ep: 1 ms	CF Step 1.500000 MH: Auto Mar
	Freq Error	h 9503 MH2 32.280 kH 9.624 MH	z OBW Po	ower 9	.4 dBm 99.00 % 6.00 dB		Freq Offsel 0 Ha
INSG				STAT	rus		<u> </u>

### Band4 10MHz 16QAM RB50 0 CH20350

									- 3 🐱
		Ηz	Center F	reg: 1.75000		ALIGN AUTO			Frequency
	#IF				Avginoi		Radio De	vice: BTS	
-	~0.0.0er			-					Center Freq
-	/		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		- Chillenne and and a	-ponum			1.75000000 GHz
							1		
							<u>ــــــــــــــــــــــــــــــــــــ</u>		
www.w.w.							~~~~	A CARGE AND A C	
75 GHz							Sp	an 15 MHz	05.04-2
50 kHz			#V	BW 510 k	Hz				CF Step 1.500000 MHz
ied Band	lwidth			Total P	ower	31.4	dBm		<u>Auto</u> Man
	8.93	68 MF	z						Freq Offset
it Freq Er	ror	-853	Hz	OBW P	ower	99	.00 %		0 Hz
ndwidth		9.636 M	Hz	x dB		-26.	00 dB		
						STATU:	5		<u> </u>
	Ref Offse Ref Offse Ref 30.0 '5 GHz 50 GHz ied Banc	Ref 30.00 dBm Ref 30.00 dBm 75 GHz 5 GHz 16 Bandwidth 8.93 16 Freq Error	#         19/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0         9/0	39         390.000         Contert           301.17500000000 GHz         Center / Trig: Trig	BY         500 000         SARELEN]         SARELEN]           Sq 1.7500000000 GHz         Trg: Free Iun         Trg: Free Iun           #FGainLow         Trg: Free Iun         Trg: Free Iun           Ref 030:00 dBm         Anten: 30 dB         Anten: 30 dB           Ref 30:00 dBm         So o dBm         So o dBm         So o dBm           Image: So o dBm         So o dBm         So o dBm         So o dBm           Image: So o dBm         Image: So o dBm         So o dBm         So o dBm           Image: So o dBm         Image: So o dBm         Image: So o dBm         So o dBm           Image: So o dBm         Image: So o dBm         Image: So o dBm         Image: So o dBm           Image: So o dBm         Image: So o dBm         Image: So o dBm         Image: So o dBm           Image: So o dBm         Image: So o dBm         Image: So o dBm         Image: So o dBm         Image: So o dBm           Image: So o dBm         Image: So o dBm         Image: So o dBm         Image: So o dBm         Image: So o dBm         Image: So o dBm         Image: So o dBm         Image: So o dBm         Image: So o dBm         Image: So o dBm         Image: So o dBm         Image: So o dBm         Image: So o dBm         Image: So o dBm         Image: So o dBm         Image: So o dBm         Image: So o dBm </td <td>Bool Bool Bool Bool Bool Bool Bool</td> <td>By 00 DC         ALIGN ANTO           ag 1.750000000 GHz         Center Free: Tree: Tree:</td> <td>Bit         Bit         Bit         Allow and Descent Will Gale.Low         Allow and Descent Ref         Descent Ref         Allow and Ref         Descent Ref         Ref           Ref         Offset 149 dB Ref         Ref         So         Ref         So         Ref         Ref         Ref         Ref         Ref         Ref         So         Ref         Ref</td> <td>By 190 BC     Lisbecker[       Sig 1.750000000 GHz     Femer Fres: This Theorem Fres: T</td>	Bool Bool Bool Bool Bool Bool Bool	By 00 DC         ALIGN ANTO           ag 1.750000000 GHz         Center Free: Tree:	Bit         Bit         Bit         Allow and Descent Will Gale.Low         Allow and Descent Ref         Descent Ref         Allow and Ref         Descent Ref         Ref           Ref         Offset 149 dB Ref         Ref         So         Ref         So         Ref         Ref         Ref         Ref         Ref         Ref         So         Ref         Ref	By 190 BC     Lisbecker[       Sig 1.750000000 GHz     Femer Fres: This Theorem Fres: T

#### Band4\_10MHz\_64QAM\_RB50\_0\_CH20000

enter Fr	RF 50 Ω DC eq 1.715000000	GHz	Center F	NSE:INT req: 1.71500 e Run		ALIGN AUTO	Radio Std		Frequency
		#IFGain:Low	#Atten: 3	30 dB			Radio Dev	rice: BTS	
10 d <u>B/div</u>	Ref Offset 14.9 dl Ref 30.00 dBn								
.og 20.0									Center Fre
10.0		manno	mann	mon	m	m			1.715000000 GH
0.00	A						ι		
10.0	/						1		
20.0	winter the						1		
0.0	And and and							many	
40.0									
50.0									
50.0									
enter 1.	715 GHz						Sna	n 15 MHz	
Res BW 1			#VI	3W 510 I	KHZ			ep 1 ms	CF Ste 1.500000 MH
Occup	ied Bandwidt	h		Total P	ower	30.5	dBm		Auto Ma
	8.	9491 M	Hz						Freq Offs
Transm	nit Freq Error	-10.440	kHz	OBW P	ower	99	.00 %		01
	andwidth	9.735	41.1-	x dB		26	00 dB		

#### Band4 10MHz 64QAM RB50 0 CH20175

📕 Keysight Spec	trum Analyzer - Occupied E	w				
R RF SOΩ DC Center Freq 1.732500000 GHz #FGain:Low			sense:INT r Freq: 1.732500000 GHz Free Run Avg Hole n: 30 dB	Radio d: 10/10	29 AM May 23, 2022 Std: None Device: BTS	Frequency
0 dB/div						
og 20.0 10.0		~~~~		m		Center Fre 1.732500000 GH
00					le brouch h	
.0 ~~~~~~~//	www.w					
0.0						
enter 1.7 es BW 1	CF Ste 1,500000 MH					
Occup	ied Bandwid 8	<sup>th</sup> .9585 MHz	Total Power	31.3 dBm		Auto Ma
Transmit Freq Error 17.943		17.943 kHz	Hz OBW Power			01
x dB Ba	Indwidth	9.732 MHz	x dB	-26.00 dE		

#### Band4 10MHz 64QAM RB50 0 CH20350

R R∈ 50Ω Center Freq 1.750000		SENSE:INT ter Freg: 1.750000000 GHz	ALIGN AUTO	09:57:28 A	M May 23, 2022	Frequency
enter Fred 1.750000	Trig	Trig: Free Run Avg Hold: 10/10			ice: BTS	
Ref Offset 14 0 dB/div Ref 30.00						
og 20.0						Center Fr
10.0		-	~~~~~	<u>۱</u>		1.750000000 G
1.00				1		
0.0 0.0				1		
100 Mullimmede				Wayne -	man	
40.0			_			
50.0						
60.0						
Center 1.75 GHz Res BW 150 kHz		VBW 510 kHz		Span 15 MHz Sweep 1 ms		CF St 1,500000 M
Occupied Bandw	Total Power 30.		.4 dBm		Auto N	
	8.9463 MHz					Freq Offs
Transmit Freq Erro	r -10.076 kHz	OBW Power	99	99.00 %		0
x dB Bandwidth	9.908 MHz	x dB	-26.0	00 dB		
sg			STATUS			I

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