

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H, PART 24 SUBPART E and PART 27 SUBPART B, C & SUBPART L and PART 90S REQUIREMENT

Applicant:	HP Inc. 3390 East Harmony Road Fort Collins, Colorado 80528 United States
Product Name:	Convertible PC
Brand Name:	HP
Model No.:	TPN-C137
Model Difference:	N/A
FCC ID:	B94TNC137FWPH
Report Number:	ER/2018/70125
FCC Rule Part:	2 , 22H & 24E & 27B, C & L & 90S
Issue Date:	Aug. 27, 2018
Date of Test:	Jul. 27, 2018 ~ Aug. 22, 2018
Date of EUT Received:	Jul. 27, 2018

OF

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26-2015 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

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

Marcus

Tested By:

Approved By:

Marcus Tseng / Sr. Enigneer

Jim Chang / Manager



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	Effected Page	Issue Date	Revised By	
ER/2018/70125	Rev.00	Initial creation of docu- ment	All	Aug. 27, 2018	Violetta Tang	

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	Convertible	e PC				
Brand Name:	HP					
Model No.:	TPN-C137					
Model Difference:	N/A					
Hardware Version:	N/A					
Software Version:	N/A					
WWAN Module:		ne : Fibocom ne : L860-GL				
		m Rechargeable Li-polymer Battery 2 / 15 / 20Vdc from AC/DC Adapter				
Power Supply:	Battery:	Model No.: HSTNN-IB8J, Supplier: N/A.				
Adapter: Model No.: TPN-LA12, Supplier: LiteON						
IMEI:	867921030	867921030054554				



1.2. WCDMA / LTE: Cellular Phone Standards Frequency Range

Operating Frequency (MHz)								
WCDMA / HSPA+ Band II	1852.4	-	1907.6					
WCDMA / HSPA+ Band IV	1712.4	-	1752.6					
WCDMA / HSPA+ Band V	826.4	-	846.6					

LTE Band	BW (MHz)	Operatior (N	n Fre /IHz)		LTE Band	BW (MHz)		on Fre (MHz)	equency
	1.4	1850.7	-	1909.3	40	5	779.5	-	784.5
	3	1851.5	-	1908.5	13	10		782	
2	5	1852.5	-	1907.5	4.4	5	790.5	-	795.5
2	10	1855.0	-	1905.0	14	10		793	
	15	1857.5	-	1902.5	17	5	706.5	-	713.5
	20	1860.0	-	1900.0	17	10	709.0	-	711.0
	1.4	1710.7	-	1754.3		1.4	824.7	-	848.3
	3	1711.5	-	1753.5		3	825.5	-	847.5
4	5	1712.5	-	1752.5	26	5	826.5	-	846.5
4	10	1715.0	-	1780.0		10	829.0	-	844.0
	15	1717.5	-	1747.5		15	831.5	-	841.5
	20	1720.0	-	1745.0		1.4	814.7	-	823.3
	1.4	824.7	-	848.3	26 Part90	3	815.5	-	822.5
5	3	825.5	-	847.5	20 Parteo	5	816.5	-	821.5
5	5	826.5	-	846.5		10		819.0	
	10	829.0	-	844.0	20	5	2307.5	-	2312.5
	1.4	699.7	-	715.3	30	10	2	2310.0)
12	3	700.5	-	714.5		5	2572.5	-	2617.5
12	5	701.5	-	713.5	20	10	2575.0	-	2615.0
	10	704.0	-	711.0	38	15	2577.5	-	2612.5
						20	2580.0	-	2610.0

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LTE Band	BW (MHz)	Operation Frequency (MHz)			LTE Band	BW (MHz)	Operation Frequency (MHz)		
	5	2498.5	-	2687.5		1.4	1710.7	-	1779.3
41	10	2501.0	-	2685.0		3	1711.5	-	1778.5
41	15	2503.5	-	2682.5	66	5	1712.5	-	1777.5
	20	2506.0	-	2680.0	00	10	1715.0	-	1775.0
	1.4	1850.7	-	1914.3		15	1717.5	-	1772.5
	3	1851.5	-	1913.5		20	1720.0	-	1770.0
25	5	1852.5	-	1912.5					
25	10	1855.0	-	1910.0					
	15	1857.5	-	1907.5					
	20	1860.0	-	1905.0					



Antenna Designation: NB Mode

Vendor	Туре	Main / Aux	Antenna Part No.	Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)
		Лал		WCDMA / HSPA Band II	1852.4 ~ 1907.6	2.48
				WCDMA / HSPA Band IV	1712.4 ~ 1752.6	1.99
				WCDMA / HSPA Band V	826.4 ~ 846.6	-3.38
				LTE Band 2	1850 ~ 1910	2.48
				LTE Band 4	1710 ~ 1755	2.39
				LTE Band 5	824 ~ 849	-3.02
				LTE Band 12	699 ~ 716	-1.87
				LTE Band 13	777 ~ 787	-1.31
	5154			LTE Band 14	788 ~ 798	-1.79
	PIFA	Main	AML6Y-10057 (DC330024W00)	LTE Band 17	704 ~ 716	-1.87
				LTE Band 25	1850 ~ 1915	2.48
				LTE Band 26	824 ~ 849	-3.02
				LTE Band 26 (Part 90S)	814 ~ 824	N/A
				LTE Band 30	2305 ~ 2315	2.33
				LTE Band 38	2573 ~ 2610	N/A
				LTE Band 41	2496 ~ 2690	-0.81
Advanced				LTE Band 66	1710 ~ 1780	2.39
Wireless &				WCDMA / HSPA Band II	1852.4 ~ 1907.6	0.51
Antenna Inc.				WCDMA / HSPA Band IV	1712.4 ~ 1752.6	N/A
				WCDMA / HSPA Band V	826.4 ~ 846.6	N/A
				LTE Band 2	1850 ~ 1910	0.51
				LTE Band 4	1710 ~ 1755	N/A
				LTE Band 5	824 ~ 849	N/A
				LTE Band 12	699 ~ 716	N/A
				LTE Band 13	777 ~ 787	N/A
	PIFA	A	AML6Y-10058 (DC330024W10)	LTE Band 14	788 ~ 798	-2.03
	PIFA	Aux	AIVILOY-10058 (DC330024VV10)	LTE Band 17	704 ~ 716	N/A
				LTE Band 25	1850 ~ 1915	0.51
				LTE Band 26	824 ~ 849	N/A
				LTE Band 26 (Part 90S)	814 ~ 824	-2.46
				LTE Band 30	2305 ~ 2315	N/A
				LTE Band 38	2573 ~ 2610	N/A
				LTE Band 41	2496 ~ 2690	-2.52
				LTE Band 66	1710 ~ 1780	N/A



Antenna Designation: Tablet Mode

Vendor	Туре	Main /	Antenna	Modulation	Frequency (MHz)	Peak Antenna
		Aux	Part No.		\ \ \	Gain (dBi)
				WCDMA / HSPA Band II	1852.4 ~ 1907.6	-5.37
				WCDMA / HSPA Band IV	1712.4 ~ 1752.6	-4.05
				WCDMA / HSPA Band V	826.4 ~ 846.6	-14.01
				LTE Band 2	1850 ~ 1910	-5.17
				LTE Band 4	1710 ~ 1755	-3.75
				LTE Band 5	824 ~ 849	-14.01
				LTE Band 12	699 ~ 716	-11.68
				LTE Band 13	777 ~ 787	-12.87
	PIFA	Main	AML6Y-10057 (DC330024W00)	LTE Band 14	788 ~ 798	-14.23
		a	AME01-10037 (DC330024000)	LTE Band 17	704 ~ 716	-11.68
				LTE Band 25	1850 ~ 1915	-5.17
				LTE Band 26	824 ~ 849	-14.01
				LTE Band 26	814 ~ 824	N/A
				(Part 90S)		
				LTE Band 30	2305 ~ 2315	-3.09
				LTE Band 38	2573 ~ 2610	N/A
Advanced				LTE Band 41	2496 ~ 2690	-7.49
Wireless &				LTE Band 66	1710 ~ 1780	-3.75
Antenna Inc.				WCDMA / HSPA Band II	1852.4 ~ 1907.6	-8.28
				WCDMA / HSPA Band IV	1712.4 ~ 1752.6	N/A
				WCDMA / HSPA Band V	826.4 ~ 846.6	N/A
				LTE Band 2	1850 ~ 1910	-8.28
				LTE Band 4	1710 ~ 1755	N/A
				LTE Band 5	824 ~ 849	N/A
				LTE Band 12	699 ~ 716	N/A
				LTE Band 13	777 ~ 787	N/A
		A		LTE Band 14	788 ~ 798	-14.06
	PIFA	Aux	AML6Y-10058 (DC330024W10)	LTE Band 17	704 ~ 716	N/A
				LTE Band 25	1850 ~ 1915	-8.28
				LTE Band 26	824 ~ 849	N/A
				LTE Band 26		
				(Part 90S)	814 ~ 824	-14.64
				LTE Band 30	2305 ~ 2315	N/A
				LTE Band 38	2573 ~ 2610	N/A
				LTE Band 41	2496 ~ 2690	-6.96
				LTE Band 66	1710 ~ 1780	N/A



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

	ERP / EIRP (dBm)		(W)	Type of Emission
WCDMA Band II	26.34	EIRP	0.431	4M25F9W
HSDPA Band II	26.32	EIRP	0.429	4M24F9W
HSUPA Band II	25.73	EIRP	0.374	4M25F9W
WCDMA Band IV	26.08	EIRP	0.406	4M07F9W
HSDPA Band IV	26.07	EIRP	0.405	4M08F9W
HSUPA Band IV	25.52	EIRP	0.356	4M08F9W
WCDMA Band V	21.12	ERP	0.129	4M10F9W
HSDPA Band V	21.09	ERP	0.129	4M11F9W
HSUPA Band V	20.48	ERP	0.112	4M11F9W

LTE Band	BW (MHz)	Modulation		'EIRP 3m)	(W)	Type of Emission	LTE Band	BW (MHz)	Modulation		/ EIRP 3m)	(W)	Type of Emission
	1.4	QPSK	27.17	EIRP	0.521	1M76G7D		1.4	QPSK	26.96	EIRP	0.497	1M12G7D
	1.4	16QAM	26.39	EIRP	0.436	1M88D7W		1.4	16QAM	26.25	EIRP	0.422	1M11D7W
	3	QPSK	27.10	EIRP	0.513	3M57G7D		3	QPSK	26.90	EIRP	0.490	2M72G7D
	3	16QAM	26.37	EIRP	0.434	3M72D7W		3	16QAM	26.25	EIRP	0.422	2M73D7W
	5	QPSK	27.17	EIRP	0.521	4M99G7D		5	QPSK	27.00	EIRP	0.501	4M54G7D
2	5	16QAM	26.43	EIRP	0.440	4M56D7W	1	5	16QAM	26.32	EIRP	0.429	4M52D7W
Z	10	QPSK	27.25	EIRP	0.531	9M21G7D	4	10	QPSK	27.04	EIRP	0.506	9M09G7D
	10	16QAM	26.46	EIRP	0.443	9M11D7W		10	16QAM	26.39	EIRP	0.436	9M09D7W
	15	QPSK	27.29	EIRP	0.536	13M7G7D		15	QPSK	27.02	EIRP	0.504	13M6G7D
	15	16QAM	26.47	EIRP	0.444	13M6D7W		15	16QAM	26.32	EIRP	0.429	13M6D7W
	20	QPSK	27.36	EIRP	0.545	18M1G7D		20	QPSK	27.02	EIRP	0.504	18M1G7D
	20	16QAM	26.46	EIRP	0.443	18M1D7W		20	16QAM	26.35	EIRP	0.432	18M1D7W

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LTE Band	BW (MHz)	Modulation		/EIRP 3m)	(W)	Type of Emission
	1.4	QPSK	21.50	ERP	0.141	1M11G7D
	1.4	16QAM	20.79	ERP	0.120	1M12D7W
	3	QPSK	21.46	ERP	0.140	2M73G7D
5	3	16QAM	20.81	ERP	0.121	2M73D7W
5	5	QPSK	21.54	ERP	0.143	4M55G7D
	5	16QAM	20.86	ERP	0.122	4M55D7W
	10	QPSK	21.60	ERP	0.145	9M11G7D
	10	16QAM	20.86	ERP	0.122	9M17D7W
	1.4	QPSK	22.22	ERP	0.167	1M12G7D
	1.4	16QAM	21.56	ERP	0.143	1M12D7W
	3	QPSK	22.18	ERP	0.165	2M74G7D
12	3	16QAM	21.69	ERP	0.148	2M73D7W
IZ	5	QPSK	22.24	ERP	0.167	4M55G7D
	5	16QAM	21.64	ERP	0.146	4M53D7W
	10	QPSK	22.40	ERP	0.174	9M16G7D
	10	16QAM	21.99	ERP	0.158	9M10D7W
	5	QPSK	23.45	ERP	0.221	4M55G7D
13	5	16QAM	22.56	ERP	0.180	4M55D7W
13	10	QPSK	23.55	ERP	0.226	8M99G7D
	10	16QAM	22.49	ERP	0.177	9M03D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
	1.4	QPSK	21.56	ERP	0.143	1M11G7D
	1.4	16QAM	21.13	ERP	0.130	1M12D7W
	3	QPSK	21.51	ERP	0.142	2M73G7D
26	3	16QAM	20.92	ERP	0.124	2M74D7W
Part90	5	QPSK	21.53	ERP	0.142	4M54G7D
	5	16QAM	21.16	ERP	0.131	4M53D7W
	10	QPSK	21.64	ERP	0.146	9M07G7D
	10	16QAM	20.91	ERP	0.123	9M11D7W
	5	QPSK	22.38	EIRP	0.173	4M60G7D
20	5	16QAM	21.79	EIRP	0.151	4M59D7W
30	10	QPSK	22.34	EIRP	0.171	9M39G7D
	10	16QAM	21.79	EIRP	0.151	9M33D7W

LTE Band	BW (MHz)	Modulation		P / EIRP IBm)	(W)	Type of Emission
	5	QPSK	22.91	ERP	0.195	4M58D7W
14	5	16QAM	22.03	ERP	0.160	9M09G7D
14	10	QPSK	22.93	ERP	0.196	9M16D7W
	10	16QAM	22.06	ERP	0.161	4M54G7D
	5	QPSK	21.94	ERP	0.156	4M54D7W
17	5	16QAM	21.27	ERP	0.134	9M09G7D
17	10	QPSK	22.00	ERP	0.158	9M10D7W
	10	16QAM	21.35	ERP	0.136	4M58D7W
	1.4	QPSK	21.54	ERP	0.143	1M11G7D
	1.4	16QAM	20.99	ERP	0.126	1M12D7W
	3	QPSK	21.51	ERP	0.142	2M73G7D
	3	16QAM	20.94	ERP	0.124	2M74D7W
26	5	QPSK	21.61	ERP	0.145	4M55G7D
20	5	16QAM	20.80	ERP	0.120	4M54D7W
	10	QPSK	21.69	ERP	0.148	9M10G7D
	10	16QAM	21.15	ERP	0.130	9M12D7W
	15	QPSK	21.81	ERP	0.152	13M6G7D
	15	16QAM	21.08	ERP	0.128	13M6D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
	5	QPSK	23.61	EIRP	0.230	4M54G7D
	5	16QAM	22.80	EIRP	0.191	4M52D7W
	10	QPSK	23.62	EIRP	0.230	9M09G7D
38	10	16QAM	22.85	EIRP	0.193	9M08D7W
30	15	QPSK	23.78	EIRP	0.239	13M6G7D
	15	16QAM	22.97	EIRP	0.198	13M6D7W
	20	QPSK	23.72	EIRP	0.236	18M0G7D
	20	16QAM	22.95	EIRP	0.197	18M1D7W



LTE Band	BW (MHz)	Modulation		ERP / EIRP (dBm)		Type of Emission
	5	QPSK	24.15	EIRP	0.260	4M55G7D
	5	16QAM	23.07	EIRP	0.203	4M55D7W
	10	QPSK	24.17	EIRP	0.261	9M07G7D
41	10	16QAM	23.19	EIRP	0.208	9M10D7W
41	15	QPSK	24.19	EIRP	0.262	13M6G7D
	15	16QAM	23.17	EIRP	0.207	13M6D7W
	20	QPSK	24.16	EIRP	0.261	18M0G7D
	20	16QAM	23.00	EIRP	0.200	18M4D7W
	1.4	QPSK	27.17	EIRP	0.521	1M49G7D
	1.4	16QAM	26.43	EIRP	0.440	1M14D7W
	3	QPSK	27.22	EIRP	0.527	2M76G7D
	3	16QAM	26.48	EIRP	0.445	2M76D7W
	5	QPSK	27.11	ERP	0.514	4M62G7D
25	5	16QAM	26.46	ERP	0.443	4M56D7W
20	10	QPSK	27.02	ERP	0.504	9M09G7D
	10	16QAM	26.44	ERP	0.441	9M16D7W
	15	QPSK	27.29	ERP	0.536	14M1G7D
	15	16QAM	26.44	ERP	0.441	13M7D7W
	20	QPSK	27.24	ERP	0.530	18M2G7D
	20	16QAM	26.46	ERP	0.443	18M2D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
	1.4	QPSK	26.52	EIRP	0.449	1M11G7D
	1.4	16QAM	26.07	EIRP	0.405	1M11D7W
	3	QPSK	26.45	EIRP	0.442	2M73G7D
	3	16QAM	25.94	EIRP	0.393	2M73D7W
	5	QPSK	26.54	EIRP	0.451	4M54G7D
66	5	16QAM	26.08	EIRP	0.406	4M53D7W
00	10	QPSK	26.74	EIRP	0.472	9M09G7D
	10	16QAM	25.97	EIRP	0.395	9M13D7W
	15	QPSK	26.63	EIRP	0.460	13M6G7D
	15	16QAM	26.01	EIRP	0.399	13M6D7W
	20	QPSK	26.66	EIRP	0.463	18M1G7D
	20	16QAM	26.06	EIRP	0.404	18M1D7W



1.4. Test Methodology of Applied Standards

CC 47 CFR Part 2, 22, 24, 27, Part 90S.

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03

KDB941225 D01 SAR test for 3G devices v03r01 (SAR Measurement Procedures for 3G Devices, WCDMA / HSPA) was used for EUT and Base station setting.

TS 151 010-1 is used to set, and measure the output power.

Note: All test items have been performed and record as per the above standards.

1.5. Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan (TAF code 0513)

FCC Registration Numbers are: 509634 / TW0001

1.6. Special Accessories

No special accessories were used during testing.

1.7. Equipment Modifications

There were no modifications incorporated into the EUT.

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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

According to measurement procured ANSI C63.26-2015, the EUT is placed on a turn 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)

According to measurement procured ANSI C63.26-2015. The EUT is a placed on as 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 according to the requirements in Section 8 and 13.

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.

	RF cable loss (dB)	Attenuation factor(dB)	offset(dB)
Low Band (Below 1GHz)	0.2	10	10.2
High Band (Above 1 GHz)	0.5	10	10.5

Following shows an offset computation in physical test.

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2.5. Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Fixed Channel-Conducted)

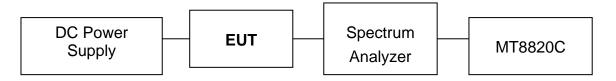
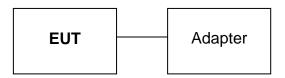


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)



Remote Side



Table 2-1 Equipment Used in

ltem	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Radio Communication Analyzer	Anritsu	MT8820C	6201107337	shielded	Un-shielded

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§2.1046(a) §22.913(a)(5) §24.232(c) §27.50(a)(3) §27.50(c)(10) §27.50(d)(4) §90.635	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% & 26dB Occuupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.50(c)(5) §27.53(h) §27.53(m)(4)(6) §90.691	Out of Band Emissions at Antenna Ter- minals and Band Edge / Emission mask requirements	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(c)(2),(4) §27.50(c)(5) §27.53(f) §27.53(g) §27.53(h) §27.53(m)(4) §90.691(a)(1)(2)	Field Strength of Spurious Radiation	Compliant
§24.232(d) §27.53(d) (5) §27.50(i) (B)	Peak to Average Ratio	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54 §90.213	Frequency Stability	Compliant



4. DESCRIPTION OF TEST MODES

4.1. The Worst Test Modes and Channel Details

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

BAND	ERP/EIRP	RADIATED EMISSION
WCDMA/HSPA Band II	H-plan	H-plan
WCDMA/HSPA Band IV	H-plan	H-plan
WCDMA/HSPA Band V	H-plan	H-plan
LTE Band 2	H-plan	H-plan
LTE Band 4	H-plan	H-plan
LTE Band 5	H-plan	H-plan
LTE Band 12	H-plan	H-plan
LTE Band 13	H-plan	H-plan
LTE Band 14	H-plan	H-plan
LTE Band 17	H-plan	H-plan
LTE Band 25	H-plan	H-plan
LTE Band 26	H-plan	H-plan
LTE Band 26 (Part 90S)	H-plan	H-plan
LTE Band 30	H-plan	H-plan
LTE Bnad 38	H-plan	H-plan
LTE Band 41	H-plan	H-plan
LTE Band 66	H-plan	H-plan

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WCDMA/HSPA MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	4132 to 4233	4132, 4183, 4233	WCDMA/HSPA Band V
EIRP	9262 to 9538 1312 to 1513	9262, 9400, 9583 1312, 1413, 1513	WCDMA/HSPA Band II WCDMA/HSPA Band IV
FREQUENCY STABILITY	4132 to 4233 1312 to 1513 9262 to 9538	4183 1413 9400	WCDMA Band II WCDMA Band IV WCDMA Band V
OCCUPIED BANDWIDTH	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	WCDMA/HSPA Band II WCDMA/HSPA Band IV WCDMA/HSPA Band V
PEAK TO AVERAGE RATIO	1312 to 1513 9262 to 9538	1312, 1413, 1513 9262, 9400, 9583	WCDMA/HSPA Band II WCDMA/HSPA Band IV
BAND EDGE	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4233 1312, 1513 9262, 9583	WCDMA Band II WCDMA Band IV WCDMA Band V
CONDCUDETED EMISSION	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	WCDMA Band II WCDMA Band IV WCDMA Band V
RADIATED EMISSION	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	WCDMA Band II WCDMA Band IV WCDMA Band V



LTE Band 2 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE		
	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest		
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest		
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest		
EIRP	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest		
		18675, 18900, 19125	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest		
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest		
FREQUENCY STABILITY	18650 to 19150	18900	10MHz	QPSK	Full RB		
	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	Full RB		
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	Full RB		
OCCUPIED BAND-	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	Full RB		
WIDTH	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	Full RB		
		18675, 18900, 19125	15MHz	QPSK, 16QAM	Full RB		
		18700, 18900, 19100	20MHz	QPSK, 16QAM	Full RB		
	18607 to 19193	18607, 18900, 19193	1.4MHz	16QAM	Full RB		
	18615 to 19185	18615, 18900, 19185	3MHz	16QAM	Full RB		
PEAK TO AVERAGE	18625 to 19175	18625, 18900, 19175	5MHz	16QAM	Full RB		
RATIO	18650 to 19150	18650, 18900, 19150	10MHz	16QAM	Full RB		
	18675 to 19125	18675, 18900, 19125	15MHz	16QAM	Full RB		
	18700 to 19100	18700, 18900, 19100	20MHz	16QAM	Full RB		
	18607 to 19193	18607, 19193	1.4MHz	QPSK	1 RB/ 0,5 RB Offes Full RB		
	18615 to 19185	18615, 19185	3MHz	QPSK	1 RB/ 0,14 RB Offest Full RB		
BAND EDGE	18625 to 19175	18625, 19175	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB		
Divid EDOL	18650 to 19150	18650, 19150	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB		
	18675 to 19125	18675, 19125	15MHz	QPSK	1 RB/ 0,74 RB Offest Full RB		
	18700 to 19100	18700, 19100	20MHz	QPSK	1 RB/ 0,99 RB Offest Full RB		
		18607, 18900, 19193	1.4MHz	QPSK	1 RB, 0 RB Offest		
		18615, 18900, 19185	3MHz	QPSK	1 RB, 0 RB Offest		
CONDCUDETED		18625, 18900, 19175	5MHz	QPSK	1 RB, 0 RB Offest		
EMISSION		18650, 18900, 19150	10MHz	QPSK	1 RB, 0 RB Offest		
		18675, 18900, 19125	15MHz	QPSK	1 RB, 0 RB Offest		
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK	1 RB, 0 RB Offest		
RADIATED EMISSION	18700 to 19100	18700, 18900, 19100	20MHz	QPSK	1 RB, 0 RB Offest		



LTE Band 4 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
EIRP	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
EIRP	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	20000 to 20350	20175	10MHz	QPSK	Full RB
	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM	Full RB
		19965, 20175, 22385	3MHz	QPSK, 16QAM	Full RB
OCCUPIED BAND-		19975, 20175, 20375	5MHz	QPSK, 16QAM	Full RB
WIDTH		20000, 20175, 20350	10MHz	QPSK, 16QAM	Full RB
		20025, 20175, 20325	15MHz	QPSK, 16QAM	Full RB
		20050, 20175, 20300	20MHz	QPSK, 16QAM	Full RB
		19957, 20175, 19393	1.4MHz	16QAM	Full RB
		19965, 20175, 22385	3MHz	16QAM	Full RB
PEAK TO AVERAGE		19975, 20175, 20375	5MHz	16QAM	Full RB
RATIO		20000, 20175, 20350	10MHz	16QAM	Full RB
_		20025, 20175, 20325	15MHz	16QAM	Full RB
		20050, 20175, 20300	20MHz	16QAM	Full RB
	19957 to 19393		1.4MHz	QPSK	1 RB/ 0,5 RB Offes Full RB
	19965 to 22385	19965, 22385	3MHz	QPSK	1 RB/ 0,14 RB Offest Full RB
BAND EDGE	19975 to 20375	19975, 20375	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
BANDEDGE	20000 to 20350	20000, 20350	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	20025 to 20325	20025, 20325	15MHz	QPSK	1 RB/ 0,74 RB Offest Full RB
	20050 to 20300	20050, 20300	20MHz	QPSK	1 RB/ 0,99 RB Offest Full RB
		19957, 20175, 19393	1.4MHz	QPSK	1 RB, 0 RB Offest
		19965, 20175, 22385	3MHz	QPSK	1 RB, 0 RB Offest
CONDCUDETED		19975, 20175, 20375	5MHz	QPSK	1 RB, 0 RB Offest
EMISSION		20000, 20175, 20350	10MHz	QPSK	1 RB, 0 RB Offest
		20025, 20175, 20325	15MHz	QPSK	1 RB, 0 RB Offest
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	20000 to 20350	20000, 20175, 20350	10MHz	QPSK	1 RB, 0 RB Offest



LTE Band 5 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
ERP	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	20450 to 20600	20525	10MHz	QPSK	Full RB
	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM	Full RB
OCCUPIED BAND-	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	Full RB
WIDTH	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	Full RB
	20470 to 20643	20470, 20643	1.4MHz	QPSK	1 RB/ 0,5 RB Offes Full RB
	20415 to 20635	20415, 20635	3MHz	QPSK	1 RB/ 0,14 RB Offest Full RB
BAND EDGE	20425 to 20625	20425, 20625	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	20450 to 20600	20450, 20600	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK	1 RB, 0 RB Offest
CONDCUDETED	20415 to 20635	20415, 20525, 20635	3MHz	QPSK	1 RB, 0 RB Offest
EMISSION	20425 to 20625	20425, 20525, 20625	5MHz	QPSK	1 RB, 0 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	20425 to 20625	20425, 20525, 20625	5MHz	QPSK	1 RB, 49 RB Offest



LTE Band 12 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHAN- NEL BAND- WIDTH	MODULATION	MODE
	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
ERP	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
EKF	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23060 to 23130	23095	10MHz	QPSK	Full RB
	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM	Full RB
OCCUPIED	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM	Full RB
BANDWIDTH	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM	Full RB
	23017 to 23173	23017, 23095, 23173	1.4MHz	16QAM	Full RB
PEAK TO AV-	23025 to 23165	23025, 23095, 23165	3MHz	16QAM	Full RB
ERAGE RATIO	23035 to 23155	23035, 23095, 23155	5MHz	16QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	16QAM	Full RB
	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK	1 RB/ 0,5 RB Offes Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK	1 RB/ 0,14 RB Offest Full RB
BAND EDGE	23035 to 23155	23035, 23095, 23155	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK	1 RB, 0 RB Offest
CONDCU-	23025 to 23165	23025, 23095, 23165	3MHz	QPSK	1 RB, 0 RB Offest
DETED EMIS- SION	23035 to 23155	23035, 23095, 23155	5MHz	QPSK	1 RB, 0 RB Offest
SION	23060 to 23130	23060, 23095, 23130	10MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	23060 to 23130	23060, 23095, 23130	10MHz	QPSK	1 RB, 49 RB Offest



LTE Band 13 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE	
ERP	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest	
ERP	23230	23230	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest	
FREQUENCY STABILITY	23230	23230	10MHz	QPSK	Full RB	
OCCUPIED	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM	Full RB	
BANDWIDTH	23230	23230	10MHz	QPSK, 16QAM	Full RB	
PEAK TO AV-	23205 to 23255	23205, 23230, 23255	5MHz	16QAM	Full RB	
ERAGE RATIO	23230	23230	10MHz	16QAM	Full RB	
BAND EDGE	23205 to 23255	23205, 23255	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB	
DAND EDGE	23230	23230	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB	
CONDCUDETED	23205 to 23255	23205, 23230, 23255	5MHz	QPSK	1 RB, 0 RB Offest	
EMISSION	23230	23230	10MHz	QPSK	1 RB, 0 RB Offest	
RADIATED EMISSION	23230	23230	10MHz	QPSK	1 RB, 49 RB Offest	

LTE Band 14 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23305 to 23355	23305, 23330, 23355	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	23330	23330	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23330	23330	10MHz	QPSK	Full RB
OCCUPIED	23305 to 23355	23305, 23330, 23355	5MHz	QPSK, 16QAM	Full RB
BANDWIDTH	23330	23330	10MHz	QPSK, 16QAM	Full RB
BAND EDGE	23305 to 23355	23305, 23330, 23355	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
DAND EDGE	23330	23330	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
CONDCUDETED	23305 to 23355	23305, 23330, 23355	5MHz	QPSK	1 RB, 0 RB Offest
EMISSION	23330	23330	10MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	23205 to 23255	23205, 23230, 23255	10MHz	QPSK	1 RB, 25 RB Offest



LTE Band 17 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
LNF	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23780 to 23800	23790	10MHz	QPSK	Full RB
OCCUPIED	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM	Full RB
BANDWIDTH	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM	Full RB
PEAK TO AV-	23755 to 23825	23755, 23790, 23825	5MHz	16QAM	Full RB
ERAGE RATIO	23780 to 23800	23780, 23790, 23800	10MHz	16QAM	Full RB
BAND EDGE	23755 to 23825	23755, 23825	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
BAND EDGE	23780 to 23800	23780, 23800	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
CONDCUDETED	23755 to 23825	23755, 23790, 23825	5MHz	QPSK	1 RB, 0 RB Offest
EMISSION	23780 to 23800	23780, 23790, 23800	10MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	23780 to 23800	23780, 23790, 23800	10MHz	QPSK	1 RB, 49 RB Offest



LTE Band 25 MODE

TEST ITEM	AVAILABLE CHAN- NEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
	27047 to 26683	27047, 26365, 26683	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offset
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offset
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offset
EIRP	26096 to 26640	26096, 26365, 26640	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offset
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offset
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offset
FREQUENCY STABILITY	26096 to 26640	26365	10MHz	QPSK	Full RB
	27047 to 26683	27047, 26365, 26683	1.4MHz	QPSK, 16QAM	Full RB
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM	Full RB
OCCUPIED BAND-	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM	Full RB
WIDTH	26096 to 26640	26096, 26365, 26640	10MHz	QPSK, 16QAM	Full RB
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM	Full RB
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM	Full RB
	27047 to 26683	27047, 26365, 26683	1.4MHz	16QAM	Full RB
	26055 to 26675	26055, 26365, 26675	3MHz	16QAM	Full RB
PEAK TO AVERAGE	26065 to 26665	26065, 26365, 26665	5MHz	16QAM	Full RB
RATIO	26096 to 26640	26096, 26365, 26640	10MHz	16QAM	Full RB
	26115 to 26615	26115, 26365, 26615	15MHz	16QAM	Full RB
	26140 to 26590	26140, 26365, 26590	20MHz	16QAM	Full RB
	27047 to 26683	27047, 26683	1.4MHz	QPSK	1 RB/ 0,5 RB Offset Full RB
	26055 to 26675	26055, 26675	3MHz	QPSK	1 RB/ 0,14 RB Offset Full RB
BAND EDGE	26065 to 26665	26065, 26665	5MHz	QPSK	1 RB/ 0,24 RB Offset Full RB
DAND EDGE	26096 to 26640	26096, 26640	10MHz	QPSK	1 RB/ 0,49 RB Offset Full RB
	26115 to 26615	26115, 26615	15MHz	QPSK	1 RB/ 0,74 RB Offset Full RB
	26140 to 26590	26140, 26590	20MHz	QPSK	1 RB/ 0,99 RB Offset Full RB
	27047 to 26683	27047, 26365, 26683	1.4MHz	QPSK	1 RB, 0 RB Offset
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK	1 RB, 0 RB Offset
CONDCUDETED	26065 to 26665	26065, 26365, 26665	5MHz	QPSK	1 RB, 0 RB Offset
EMISSION	26096 to 26640	26096, 26365, 26640	10MHz	QPSK	1 RB, 0 RB Offset
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK	1 RB, 0 RB Offset
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK	1 RB, 0 RB Offset
RADIATED EMISSION	26115 to 26615	26115, 26365, 26615	15MHz	QPSK	1 RB, 0 RB Offset



LTE Band 26 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
ERP	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
FREQUENCY STABILITY	26865 to 26965	26915	15MHz	QPSK	Full RB
	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM	Full RB
OCCUPIED BAND-	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM	Full RB
WIDTH	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM	Full RB
WIDTH	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM	Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM	Full RB
	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK	1 RB/ 0,5 RB Offes Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK	1 RB/ 0,14 RB Offest Full RB
BAND EDGE	26815 to 27015	26815, 26915, 27015	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK	1 RB/ 0,74 RB Offest
	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK	1 RB, 0 RB Offest
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK	1 RB, 0 RB Offest
CONDCUDETED EMISSION	26815 to 27015	26815, 26915, 27015	5MHz	QPSK	1 RB, 0 RB Offest
EIVIISSION	26840 to 26990	26840, 26915, 26990	10MHz	QPSK	1 RB, 0 RB Offest
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	26865 to 26965	26865, 26915, 26965	15MHz	QPSK	1 RB, 74 RB Offest



LTE Band 26 for 90S MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
ERP	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	26740	26740	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	26697 to 26783	26740	1.4MHz	QPSK	Full RB
	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM	Full RB
OCCUPIED BAND-	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM	Full RB
WIDTH	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM	Full RB
	26740	26740	10MHz	QPSK, 16QAM	Full RB
	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK	1 RB/ 0,5 RB Offes Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK	1 RB/ 0,14 RB Offest Full RB
BAND EDGE	26715 to 26765	26715, 26740, 26765	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	26740	26740	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK	1 RB, 0 RB Offest
CONDCUDETED	26705 to 26775	26705, 26740, 26775	3MHz	QPSK	1 RB, 0 RB Offest
EMISSION	26715 to 26765	26715, 26740, 26765	5MHz	QPSK	1 RB, 0 RB Offest
	26740	26740	10MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	26740	26740	10MHz	QPSK	1 RB, 49 RB Offest

LTE Band 30 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE	
ERP	27685 to 27735	27685, 27710, 27735	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest	
ENF	27710	27710	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest	
FREQUENCY STABILITY	27710	27710	10MHz	QPSK	Full RB	
OCCUPIED	27685 to 27735	27685, 27710, 27735	5MHz	QPSK, 16QAM	Full RB	
BANDWIDTH	27710	27710	10MHz	QPSK, 16QAM	Full RB	
PEAK TO AVER-	27685 to 27735	27685, 27710, 27735	5MHz	16QAM	Full RB	
AGE RATIO	27710	27710	10MHz	16QAM	Full RB	
	27685 to 27735	27685, 27710, 27735	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB	
BAND EDGE	27710	27710	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB	
CONDCUDETED	27685 to 27735	27685, 27710, 27735	5MHz	QPSK	1 RB, 0 RB Offest	
EMISSION	27710	27710	10MHz	QPSK	1 RB, 0 RB Offest	
RADIATED EMISSION	27685 to 27735	27685, 27710, 27735	5MHz	QPSK	1 RB, 0 RB Offest	



LTE Band 38 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
EIRP	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
EIRP	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	Full RB
	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM	Full RB
OCCUPIED BAND-		37800 , 38000, 38200	10MHz	QPSK, 16QAM	Full RB
WIDTH	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK, 16QAM	Full RB
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK, 16QAM	Full RB
	37775 to 38225	37775, 38000, 38225	5MHz	16QAM	Full RB
PEAK TO AVER-	37800 to 38200	37800 , 38000, 38200	10MHz	16QAM	Full RB
AGE RATIO	37825 to 38175	37825 , 38000, 38175	15MHz	16QAM	Full RB
	37850 to 38150	37850 , 38000, 38150	20MHz	16QAM	Full RB
	37775 to 38225	37775, 38000, 38225	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
BAND EDGE	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
BAND EDGE	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK	1 RB/ 0,74 RB Offest Full RB
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK	1 RB/ 0,99 RB Offest Full RB
	37775 to 38225	37775, 38000, 38225	5MHz	QPSK	1 RB, 0 RB Offest
CONDCUDETED	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	1 RB, 0 RB Offest
EMISSION	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK	1 RB, 0 RB Offest
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK	1 RB, 74 RB Offest
	37775 to 38225	37775, 38000, 38225	5MHz	QPSK	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset
EMISSION MASK	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK	1 RB/ 0,74 RB Offest 75 RB/ 0 Offset
	37850 to 38150	37850 , 38000, 38150	10MHz	16QAM	1 RB/ 0,99 RB Offest 100 RB/ 0 Offset



LTE Band 41 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
EIRP	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
LIKF	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	39700 to 41540	39700, 40620, 41540	10MHz	QPSK	Full RB
	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM	Full RB
OCCUPIED BAND-	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM	Full RB
WIDTH	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM	Full RB
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM	Full RB
	39675 to 41565	39675, 40620, 41565	5MHz	16QAM	Full RB
PEAK TO AVER-	39700 to 41540	39700, 40620, 41540	10MHz	16QAM	Full RB
AGE RATIO	39725 to 41515	39725, 40620, 41515	15MHz	16QAM	Full RB
	39750 to 41490	39750, 40620, 41490	20MHz	16QAM	Full RB
	39675 to 41565	39675, 41565	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	39700 to 41540	39700, 41540	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
BAND EDGE	39725 to 41515	39725, 41515	15MHz	QPSK	1 RB/ 0,74 RB Offest Full RB
	39750 to 41490	39750, 41490	20MHz	QPSK	1 RB/ 0,99 RB Offest Full RB
	39675 to 41565	39675, 40620, 41565	5MHz	QPSK	1 RB, 0 RB Offest
CONDCUDETED	39700 to 41540	39700, 40620, 41540	10MHz	QPSK	1 RB, 0 RB Offest
EMISSION	39725 to 41515	39725, 40620, 41515	15MHz	QPSK	1 RB, 0 RB Offest
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK	1 RB, 0 RB Offest
	39675 to 41565	39675, 40620, 41565	5MHz	QPSK	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
EMISSION MASK	39700 to 41540	39700, 40620, 41540	10MHz	QPSK	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK	1 RB/ 0,74 RB Offest 75 RB/ 0 Offset
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK	1 RB/ 0,99 RB Offest 100 RB/ 0 Offset
RADIATED EMISSION	39725 to 41515	39725, 40620, 41515	15MHz	QPSK	1 RB,74 RB Offest



LTE Band 66 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	131987 to 132657	131987, 132322, 132657	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
FIDD	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
EIRP	132022 to 132622	132022, 132322, 132622	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	132047 to 132597	132047, 132322, 132597	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	18650 to 19150	18900	10MHz	QPSK	Full RB
	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK, 16QAM	Full RB
	131987 to 132657	131987, 132322, 132657	3MHz	QPSK, 16QAM	Full RB
OCCUPIED BAND-	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM	Full RB
WIDTH	132022 to 132622	132022, 132322, 132622	10MHz	QPSK, 16QAM	Full RB
	132047 to 132597	132047, 132322, 132597	15MHz	QPSK, 16QAM	Full RB
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK, 16QAM	Full RB
	131979 to 132665	131979, 132322, 132665	1.4MHz	16QAM	Full RB
	131987 to 132657	131987, 132322, 132657	3MHz	16QAM	Full RB
PEAK TO AVERAGE	131997 to 132647	131997, 132322, 132647	5MHz	16QAM	Full RB
RATIO	132022 to 132622	132022, 132322, 132622	10MHz	16QAM	Full RB
	132047 to 132597	132047, 132322, 132597	15MHz	16QAM	Full RB
	132072 to 132572	132072, 132322, 132572	20MHz	16QAM	Full RB
	18607 to 19193	18607, 19193	1.4MHz	QPSK	1 RB/ 0,5 RB Offes Full RB
	18615 to 19185	18615, 19185	3MHz	QPSK	1 RB/ 0,14 RB Offest Full RB
BAND EDGE	18625 to 19175	18625, 19175	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
DAND LUGL	18650 to 19150	18650, 19150	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	18675 to 19125	18675, 19125	15MHz	QPSK	1 RB/ 0,74 RB Offest Full RB
	18700 to 19100	18700, 19100	20MHz	QPSK	1 RB/ 0,99 RB Offest Full RB
	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK	1 RB, 0 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK	1 RB, 0 RB Offest
CONDCUDETED EMISSION	18625 to 19175	18625, 18900, 19175	5MHz	QPSK	1 RB, 0 RB Offest
EIVIISSION	18650 to 19150 18675 to 19125	18650, 18900, 19150 18675, 18900, 19125	10MHz 15MHz	QPSK QPSK	1 RB, 0 RB Offest 1 RB, 0 RB Offest
	18700 to 19120	18700, 18900, 19125	20MHz	QPSK QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	18650 to 19150	18650, 18900, 19150	10MHz	QPSK	1 RB, 0 RB Offest



5. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Power Output	+/- 1.10 dB
ERP/ EIRP measurement	Vertical Polarization = +/- 4.74dB Horizontal Polarization =+/- 4.62dB
99% Occupied Bandwidth	+/- 5.19 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 0.70 dB
Peak to Average Ratio	+/- 0.70 dB
Frequency Stability vs. Temperature	+/- 5.19 Hz
Frequency Stability vs. Voltage	+/- 5.19 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC=+/- 0.2%

Radiated Spurious Emission:

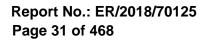
	9kHz – 30MHz: +/- 2.87 dB					
	30MHz - 180MHz: +/- 3.37dB					
Measurement uncertainty (Polarization : Vertical)	180MHz -417MHz: +/- 3.19dB					
	0.417GHz-1GHz: +/- 3.19dB					
	1GHz - 18GHz: +/- 4.04dB					
	18GHz - 40GHz: +/- 4.04dB					

	9kHz – 30MHz: +/- 2.87 dB					
Maggurament ungertainty	30MHz - 167MHz: +/- 4.22dB					
Measurement uncertainty (Polarization : Horizontal)	167MHz -500MHz: +/- 3.44dB					
(i olalization : honzontal)	0.5GHz-1GHz: +/- 3.39dB					
	1GHz - 18GHz: +/- 4.08dB					
	18GHz - 40GHz: +/- 4.08dB					

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

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.

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. 除非另有說明,比報告結果僅對測試之樣品負責,同時此樣品僅保留的反卡。本報告未變本公司書面許可,不可的役費。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>www.sgs.com/terms_and_conditions.htm</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>www.sgs.com/terms_edocument.htm</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document and offenders may be transection to the fullest extent of the advised to the fullest extent of the advised at the fullest extent of the law. document is unlawful and offenders may be prosecuted to the fullest extent of the law.





6. MAXMUM OUTPUT POWER

6.1. Standard Applicable

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

ERP/EIRP LIMIT

According to FCC §2.1046

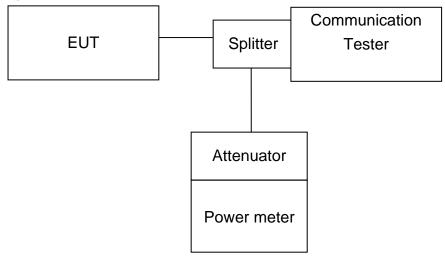
FCC 22.913(a) Mobile station is limited to 7W ERP.

FCC 24.232(b) Mobile and portable stations are limited to 2 W EIRP.

FCC 27.50(a)(3) Mobile and portable stations (hand-held devices) are limited to 250 mW/ 5MHz EIRP.

FCC 27.50(c)(10) Portable stations (hand-held devices) are limited to 3 watts ERP. FCC 27.50(d)(4) Fixed, mobile, and portable (hand-held) stations are limited to 1W EIRP. FCC 27, 50(h)(2) Mobile and other user stations. Mobile stations are limited to 2 W EIRP FCC 90.635(b) Mobile station is limited to 100W ERP

6.2. Test Set-up



Note: Measurement setup for testing on Antenna connector

6.3. Measurement Procedure

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. TS 151 010-1 is reference to conduct the test measurement of output power.

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

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

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP.

TEST PROCEDURE:

ANSI C63.26:2015 KDB 971168 Section 5.6

ERP/EIRP = PMeas + GT-LC

where: ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);

PMeas = measured transmitter output power or PSD, in dBm or dBW;

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

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.2 For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19
Radio Communica- tion Analyzer	Anritsu	MT8820C	6201107337	2018/06/15	2019/06/14
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
Splitter	Woken	DOM35LW1A2	RF36	2017/12/26	2018/12/25
DC Block	PASTERNACK	PE8210	RF29	2017/12/26	2018/12/25
Coaxial Cables	Woken	00100A1F1A185C	RF229	2017/12/26	2018/12/25
Coaxial Cables	Woken	00100A1F1A185C	RF230	2017/12/26	2018/12/25
Coaxial Cables	Woken	00100A1F1A185C	RF231	2017/12/26	2018/12/25
Temperature Chamber	TERCHY	MHK-120LK	1020582	2018/01/13	2019/01/02

6.4. Measurement Equipment Used

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6.5. Measurement Result **RF Conducted Output Power** WCDMA MODE:

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 V8.4.0 specification. The EUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7). RMC 12.2kps is used for this testing.

Results:

WCDMA/HSUPA/HSDPA Band II Result:

EUT Mode	Freq. (MHz)	СН	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
	1852.4	9262	23.76	2.48	26.24	33	-6.76
WCDMA	1880	9400	23.86	2.48	26.34	33	-6.66
	1907.6	9538	23.79	2.48	26.27	33	-6.73
	1852.4	9262	23.71	2.48	26.19	33	-6.81
HSDPA	1880	9400	23.84	2.48	26.32	33	-6.68
	1907.6	9538	23.69	2.48	26.17	33	-6.83
	1852.4	9262	23.18	2.48	25.66	33	-7.34
HSUPA	1880	9400	23.25	2.48	25.73	33	-7.27
	1907.6	9538	23.11	2.48	25.59	33	-7.41

WCDMA/HSUPA/HSDPA Band IV Result:

EUT Mode	Freq. (MHz)	СН	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
	1712.4	1312	23.9	2.08	25.98	30	-4.02
WCDMA	1732.6	1413	24	2.08	26.08	30	-3.92
	1752.6	1513	23.89	2.08	25.97	30	-4.03
	1712.4	1312	23.82	2.08	25.9	30	-4.1
HSDPA	1732.6	1413	23.99	2.08	26.07	30	-3.93
	1752.6	1513	23.86	2.08	25.94	30	-4.06
	1712.4	1312	23.34	2.08	25.42	30	-4.58
HSUPA	1732.6	1413	23.44	2.08	25.52	30	-4.48
	1752.6	1513	23.29	2.08	25.37	30	-4.63

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WCDMA/HSUPA/HSDPA Band V Result:

EUT Mode	Freq. (MHz)	СН	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
	826.4	4132	24.14	-3.02	21.12	38.5	-17.38
WCDMA	836.6	4183	23.98	-3.02	20.96	38.5	-17.54
	846.6	4233	23.89	-3.02	20.87	38.5	-17.63
	826.4	4132	24.11	-3.02	21.09	38.5	-17.41
HSDPA	836.6	4183	23.97	-3.02	20.95	38.5	-17.55
	846.6	4233	23.87	-3.02	20.85	38.5	-17.65
	826.4	4132	23.5	-3.02	20.48	38.5	-18.02
HSUPA	836.6	4183	23.41	-3.02	20.39	38.5	-18.11
	846.6	4233	23.2	-3.02	20.18	38.5	-18.32

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HSDPA Release 6 MODE:

The following 4 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C10.1.4 & C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing.

HSDPA SUB-TEST Setting

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH(FOR HSDPA)

Sub-test	βc	βa	β _d (SF)	βc/βd	βнs (Note1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)	RMC (Kbps)
1	2/15	15/15	64	2/15	4/15	0.0	0.0	12.2
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0	12.2
3	15/15	8/15	64	15/8	30/15	1.5	0.5	12.2
4	15/15	4/15	64	15/4	30/15	1.5	0.5	12.2

Note: The recommended HSDPA MPRs are implemented as per following sub-tests.

HSPA (HSDPA & HSUPA) Release 6 MODE

The following 5 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing **HSPA SUB-TEST Setting**

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH(FOR HSUPA)

Sub- test	βc	βα	β₀ (SF)	βс∕βа	βнs	βес	βed	β _{ed} (SF)	β _{ed} (Code s)	CM (dB)	MPR (dB)	AG Index	E-TFCI	RMC (Kbps)
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/22 5	1309/225	4	1	1.0	0.0	20	75	12.2
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67	12.2
3	15/15	9/15	64	15/9	30/15	30/15	β _{ed} 1: 47/15 β _{ed} 2: 47/15	4 4	2	2.0	1.0	15	92	12.2
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71	12.2
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81	12.2

Note: The recommended HSUPA MPRs are implemented as per following sub-tests.

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Results:

Mode Sub test		A	vg. Power (dBn Channel	n)	Power Class 3 Limitation (dBm)	Comments
		9262	9400	9538		
	1	23.71	23.84	23.69	20.3dBm – 25.7dBm	Pass
HSDPA II	2	22.66	22.74	22.57	20.3dBm – 25.7dBm	Pass
	3	22.15	22.21	22.06	19.8dBm – 25.7dBm	Pass
	4	21.91	21.92	21.79	19.8dBm – 25.7dBm	Pass

Mode Sub test		A	vg. Power (dBn Channel	n)	Power Class 3 Limitation (dBm)	Comments
lesi	1051	1312	1413	1513		
	1	23.82	23.99	23.86	20.3dBm – 25.7dBm	Pass
HSDPA IV	2	22.86	22.96	22.86	20.3dBm – 25.7dBm	Pass
	3	22.37	22.47	22.37	19.8dBm – 25.7dBm	Pass
	4	22.14	22.14	22.13	19.8dBm – 25.7dBm	Pass

Mode Sub test		A	vg. Power (dBr Channel	n)	Power Class 3 Limitation (dBm)	Comments
	1031	4132	4183	4233		
	1	24.11	23.97	23.87	20.3dBm – 25.7dBm	Pass
HSDPA V	2	23.04	22.94	22.74	20.3dBm – 25.7dBm	Pass
	3	22.50	22.41	22.15	19.8dBm – 25.7dBm	Pass
	4	22.28	22.15	21.89	19.8dBm – 25.7dBm	Pass



	Sub	A	vg. Power (dBr	n)	Power Class 3	
Mode	test		Channel		Limitation (dBm)	Comments
	1051	9262	9400	9538	Elimitation (ability	
	1	23.18	23.25	23.11	18.8dBm – 25.7dBm	Pass
	2	23.72	23.78	23.68	16.8dBm – 25.7dBm	Pass
HSUPA II	3	22.14	22.21	22.07	17.8dBm – 25.7dBm	Pass
	4	23.72	23.84	23.76	16.8dBm – 25.7dBm	Pass
	5	22.64	22.71	22.58	18.8dBm – 25.7dBm	Pass

Mode	Sub test	A	vg. Power (dBr Channel	n)	Power Class 3 Limitation (dBm)	Comments
	1051	1312	1413	1513	Elimitation (ability	
	1	23.34	23.44	23.29	20.3dBm – 25.7dBm	Pass
	2	23.83	23.92	23.78	20.3dBm – 25.7dBm	Pass
HSDPA IV	3	22.34	22.43	22.29	19.8dBm – 25.7dBm	Pass
	4	23.85	23.96	23.78	19.8dBm – 25.7dBm	Pass
	5	22.86	22.91	22.80	19.8dBm – 25.7dBm	Pass

Mode	Sub test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
	1051	4132	4183	4233	Elimitation (ability	
	1	23.50	23.41	23.20	18.8dBm – 25.7dBm	Pass
	2	24.02	23.91	23.78	16.8dBm – 25.7dBm	Pass
HSUPA V	3	22.46	22.35	22.12	17.8dBm – 25.7dBm	Pass
	4	24.07	23.94	23.84	16.8dBm – 25.7dBm	Pass
	5	22.99	22.90	22.67	18.8dBm – 25.7dBm	Pass

WCDMA/HSDPA/HSUPA band II, IV, V

The EUT output power was controlled by simulator. Set Communication Tester MT8820C function key "UE Power Control" and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm. Then record the read (see page 15 for measurement data). The min. power was measures by a function key "minimum power" then record the read. It is -52.3dBm. The power variation can be 0.1dB step by setting.

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LTE Result:

Antenna	gain (dBi)	2.48							
		LTE Band	2_Uplink free	quenc	y band :	: 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	24.64	27.12	33	-5.88
	18607	1850.7	QPSK	1	5	24.64	27.12	33	-5.88
	10007	1800.7	QPSK	3	2	24.63	27.11	33	-5.89
				6	0	23.69	26.17	33	-6.83
				1	0	24.68	27.16	33	-5.84
	18900	1880	QPSK	1	5	24.69	27.17	33	-5.83
	10700	1000	UF JK	3	2	24.66	27.14	33	-5.86
				6	0	23.69	26.17	33	-6.83
	19193	1909.3	QPSK	1	0	24.38	26.86	33	-6.14
				1	5	24.29	26.77	33	-6.23
				3	2	24.23	26.71	33	-6.29
1.4				6	0	23.38	25.86	33	-7.14
1.4				1	0	23.84	26.32	33	-6.68
	18607	1850.7	16QAM	1	5	23.85	26.33	33	-6.67
	10007	1000.7	1002/101	3	2	23.71	26.19	33	-6.81
				6	0	22.67	25.15	33	-7.85
				1	0	23.89	26.37	33	-6.63
	18900	1880	16QAM	1	5	23.91	26.39	33	-6.61
	10700	1000	1002/101	3	2	23.74	26.22	33	-6.78
				6	0	22.63	25.11	33	-7.89
				1	0	23.52	26	33	-7
	19193	1909.3	160AM	1	5	23.45	25.93	33	-7.07
	17175		16QAM	3	2	23.3	25.78	33	-7.22
				6	0	22.4	24.88	33	-8.12

Antenna	gain (dBi)	2.48							
		LTE Band	2_Uplink free	quenc	y band :	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	24.59	27.07	33	-5.93
	18615	1851.5	QPSK	1	14	24.62	27.1	33	-5.9
	10010	1001.0	UPSK	8	4	23.68	26.16	33	-6.84
				15	0	23.69	26.17	33	-6.83
				1	0	24.61	27.09	33	-5.91
	18900	1880	QPSK	1	14	24.58	27.06	33	-5.94
	10700	1000	QI JK	8	4	23.66	26.14	33	-6.86
				15	0	23.68	26.16	33	-6.84
	19185	1908.5	5 QPSK	1	0	24.37	26.85	33	-6.15
				1	14	24.17	26.65	33	-6.35
	17105	1700.5		8	4	23.46	25.94	33	-7.06
3				15	0	23.48	25.96	33	-7.04
5				1	0	23.8	26.28	33	-6.72
	18615	1851.5	16QAM	1	14	23.87	26.35	33	-6.65
	10010	1001.0	100/101	8	4	22.68	25.16	33	-7.84
				15	0	22.67	25.15	33	-7.85
				1	0	23.83	26.31	33	-6.69
	18900	1880	16QAM	1	14	23.89	26.37	33	-6.63
	10700	1000	100/101	8	4	22.62	25.1	33	-7.9
				15	0	22.61	25.09	33	-7.91
				1	0	23.58	26.06	33	-6.94
	19185	1908.5	16QAM	1	14	23.39	25.87	33	-7.13
	19185			8	4	22.43	24.91	33	-8.09
				15	0	22.43	24.91	33	-8.09

Antenna	Antenna gain (dBi) 2.48 LTE Band 2_Uplink frequency band : 1850 to 1910 MHz										
		LTE Band	2_Uplink free	quenc	y band :	: 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	24.67	27.15	33	-5.85		
	18625	1852.5	QPSK	1	24	24.64	27.12	33	-5.88		
	10023	1032.3	QI JK	12	6	23.85	26.33	33	-6.67		
				25	0	23.82	26.3	33	-6.7		
				1	0	24.69	27.17	33	-5.83		
	18900	1880	QPSK	1	24	24.69	27.17	33	-5.83		
	10700	1000		12	6	23.78	26.26	33	-6.74		
				25	0	23.77	26.25	33	-6.75		
	19175	1907.5	QPSK	1	0	24.56	27.04	33	-5.96		
				1	24	24.28	26.76	33	-6.24		
	17175			12	6	23.6	26.08	33	-6.92		
5				25	0	23.6	26.08	33	-6.92		
Ū				1	0	23.88	26.36	33	-6.64		
	18625	1852.5	16QAM	1	24	23.8	26.28	33	-6.72		
	10020	1002.0	1002/111	12	6	22.89	25.37	33	-7.63		
				25	0	22.85	25.33	33	-7.67		
				1	0	23.95	26.43	33	-6.57		
	18900	1880	16QAM	1	24	23.89	26.37	33	-6.63		
	10700	1000	1002/101	12	6	22.74	25.22	33	-7.78		
				25	0	22.76	25.24	33	-7.76		
				1	0	23.79	26.27	33	-6.73		
	19175	1907 5	16QAM	1	24	23.47	25.95	33	-7.05		
	17175	1907.5		12	6	22.57	25.05	33	-7.95		
				25	0	22.6	25.08	33	-7.92		

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Antenna	Antenna gain (dBi) 2.48 LTE Band 2_Uplink frequency band : 1850 to 1910 MHz										
		LTE Band	2_Uplink free	quenc	y band :	: 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	24.77	27.25	33	-5.75		
	18650	1855	QPSK	1	24	24.66	27.14	33	-5.86		
	10000	1000	UPSK	12	6	23.67	26.15	33	-6.85		
				25	0	23.67	26.15	33	-6.85		
				1	0	24.77	27.25	33	-5.75		
	18900	1880	QPSK	1	24	24.62	27.1	33	-5.9		
	10900	1000	UFJK	12	6	23.69	26.17	33	-6.83		
				25	0	23.68	26.16	33	-6.84		
	19150	1905	QPSK	1	0	24.61	27.09	33	-5.91		
				1	24	24.28	26.76	33	-6.24		
				12	6	23.69	26.17	33	-6.83		
10				25	0	23.61	26.09	33	-6.91		
10				1	0	23.98	26.46	33	-6.54		
	18650	1855	16QAM	1	24	23.92	26.4	33	-6.6		
	10050	1000	TUCAM	12	6	22.76	25.24	33	-7.76		
				25	0	22.7	25.18	33	-7.82		
				1	0	23.87	26.35	33	-6.65		
	18900	1880	16QAM	1	24	23.84	26.32	33	-6.68		
	10700	1000	TUCAM	12	6	22.69	25.17	33	-7.83		
				25	0	22.66	25.14	33	-7.86		
				1	0	23.89	26.37	33	-6.63		
	19150	1905	16 ∩ ΔM	1	24	23.56	26.04	33	-6.96		
	19150		16QAM	12	6	22.7	25.18	33	-7.82		
				25	0	22.61	25.09	33	-7.91		

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Antenna	Antenna gain (dBi) 2.48 LTE Band 2_Uplink frequency band : 1850 to 1910 MHz										
		LTE Band	2_Uplink free	quenc	y band :	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	24.72	27.2	33	-5.8		
	18675	1857.5	QPSK	1	74	24.77	27.25	33	-5.75		
	10075	1007.0	UFJK	36	19	23.59	26.07	33	-6.93		
				75	0	23.61	26.09	33	-6.91		
				1	0	24.81	27.29	33	-5.71		
	18900	1880	QPSK	1	74	24.52	27	33	-6		
	10700	1000	QI JIK	36	19	23.68	26.16	33	-6.84		
				75	0	23.73	26.21	33	-6.79		
	19125	1902.5	QPSK	1	0	24.45	26.93	33	-6.07		
				1	74	24.3	26.78	33	-6.22		
	17125			36	19	23.59	26.07	33	-6.93		
15				75	0	23.65	26.13	33	-6.87		
15				1	0	23.85	26.33	33	-6.67		
	18675	1857.5	16QAM	1	74	23.99	26.47	33	-6.53		
	10075	1007.0	1002/101	36	19	22.65	25.13	33	-7.87		
				75	0	22.64	25.12	33	-7.88		
				1	0	23.75	26.23	33	-6.77		
	18900	1880	16QAM	1	74	23.85	26.33	33	-6.67		
	10700	1000	1002/101	36	19	22.67	25.15	33	-7.85		
				75	0	22.67	25.15	33	-7.85		
				1	0	23.69	26.17	33	-6.83		
	19125	1902.5	160AM	1	74	23.54	26.02	33	-6.98		
	19125		16QAM	36	19	22.62	25.1	33	-7.9		
				75	0	22.62	25.1	33	-7.9		

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Antenna	Antenna gain (dBi) 2.48 LTE Band 2_Uplink frequency band : 1850 to 1910 MHz										
		LTE Band	2_Uplink free	quenc	y band :	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	24.84	27.32	33	-5.68		
	18700	1860	QPSK	1	99	24.78	27.26	33	-5.74		
	10700	1000	UF JK	50	25	23.75	26.23	33	-6.77		
				100	0	23.8	26.28	33	-6.72		
			QPSK	1	0	24.88	27.36	33	-5.64		
	18900	1880		1	99	24.46	26.94	33	-6.06		
		1000		50	25	23.68	26.16	33	-6.84		
				100	0	23.77	26.25	33	-6.75		
	19100	1900	QPSK	1	0	24.47	26.95	33	-6.05		
				1	99	24.4	26.88	33	-6.12		
	17100			50	25	23.59	26.07	33	-6.93		
20				100	0	23.68	26.16	33	-6.84		
20				1	0	23.74	26.22	33	-6.78		
	18700	1860	16QAM	1	99	23.98	26.46	33	-6.54		
	10700	1000	10 21 111	50	25	22.78	25.26	33	-7.74		
				100	0	22.81	25.29	33	-7.71		
				1	0	23.85	26.33	33	-6.67		
	18900	1880	16QAM	1	99	23.72	26.2	33	-6.8		
	10,00	1000	10 21 111	50	25	22.65	25.13	33	-7.87		
				100	0	22.72	25.2	33	-7.8		
				1	0	23.63	26.11	33	-6.89		
	19100	1900	16QAM	1	99	23.6	26.08	33	-6.92		
	19100		_	50	25	22.6	25.08	33	-7.92		
				100	0	22.65	25.13	33	-7.87		

Antenna	Antenna gain (dBi) 2.39 LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
		LTE Band	4_Uplink free	quency	y band :	: 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	24.41	26.8	30	-3.2	
	19957	1710.7	QPSK	1	5	24.4	26.79	30	-3.21	
	17757	1710.7	UF JK	3	2	24.39	26.78	30	-3.22	
				6	0	23.42	25.81	30	-4.19	
				1	0	24.48	26.87	30	-3.13	
	20175	1732.5	QPSK	1	5	24.47	26.86	30	-3.14	
	20175	1752.5		3	2	24.45	26.84	30	-3.16	
				6	0	23.45	25.84	30	-4.16	
	20393	1754.3	QPSK	1	0	24.51	26.9	30	-3.1	
				1	5	24.57	26.96	30	-3.04	
	20373			3	2	24.54	26.93	30	-3.07	
1.4				6	0	23.57	25.96	30	-4.04	
1.7				1	0	23.74	26.13	30	-3.87	
	19957	1710.7	16QAM	1	5	23.74	26.13	30	-3.87	
	17757	1710.7	1002/101	3	2	23.52	25.91	30	-4.09	
				6	0	22.49	24.88	30	-5.12	
				1	0	23.7	26.09	30	-3.91	
	20175	1732.5	16QAM	1	5	23.69	26.08	30	-3.92	
	20175	1752.5	1002/101	3	2	23.49	25.88	30	-4.12	
				6	0	22.46	24.85	30	-5.15	
				1	0	23.83	26.22	30	-3.78	
	20393	1754 3	16QAM	1	5	23.86	26.25	30	-3.75	
	20375	1754.3		3	2	23.68	26.07	30	-3.93	
				6	0	22.66	25.05	30	-4.95	



Antenna	Antenna gain (dBi) 2.39 LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
		LTE Band	4_Uplink free	quenc	y band :	: 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	24.37	26.76	30	-3.24	
	19965	1711.5	QPSK	1	14	24.37	26.76	30	-3.24	
	17703	1711.3	QI JIK	8	4	23.42	25.81	30	-4.19	
				15	0	23.42	25.81	30	-4.19	
				1	0	24.42	26.81	30	-3.19	
	20175	1732.5	QPSK	1	14	24.43	26.82	30	-3.18	
	20170	1752.5	QUOK	8	4	23.46	25.85	30	-4.15	
				15	0	23.47	25.86	30	-4.14	
	20385	1753.5	QPSK	1	0	24.44	26.83	30	-3.17	
				1	14	24.51	26.9	30	-3.1	
	20000	1700.0		8	4	23.49	25.88	30	-4.12	
3				15	0	23.49	25.88	30	-4.12	
Ũ				1	0	23.66	26.05	30	-3.95	
	19965	1711.5	16QAM	1	14	23.72	26.11	30	-3.89	
	17700		10 21 111	8	4	22.53	24.92	30	-5.08	
				15	0	22.47	24.86	30	-5.14	
				1	0	23.6	25.99	30	-4.01	
	20175	1732.5	16QAM	1	14	23.65	26.04	30	-3.96	
	20170	1702.0	1002/101	8	4	22.47	24.86	30	-5.14	
				15	0	22.45	24.84	30	-5.16	
				1	0	23.72	26.11	30	-3.89	
	20385	1753.5	16QAM	1	14	23.86	26.25	30	-3.75	
	20000	1753.5		8	4	22.58	24.97	30	-5.03	
				15	0	22.57	24.96	30	-5.04	

Antenna	Antenna gain (dBi) 2.39 LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
		LTE Band	4_Uplink free	quenc	y band :	: 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	24.46	26.85	30	-3.15	
	19975	1712.5	QPSK	1	24	24.47	26.86	30	-3.14	
	17713	1712.3	QI JK	12	6	23.52	25.91	30	-4.09	
				25	0	23.49	25.88	30	-4.12	
				1	0	24.5	26.89	30	-3.11	
	20175	1732.5	QPSK	1	24	24.52	26.91	30	-3.09	
	20110	110210	QI SIX	12	6	23.57	25.96	30	-4.04	
				25	0	23.54	25.93	30	-4.07	
	20375	1752.5	QPSK	1	0	24.55	26.94	30	-3.06	
				1	24	24.61	27	30	-3	
	20070			12	6	23.6	25.99	30	-4.01	
5				25	0	23.57	25.96	30	-4.04	
Ū.				1	0	23.81	26.2	30	-3.8	
	19975	1712.5	16QAM	1	24	23.8	26.19	30	-3.81	
				12	6	22.67	25.06	30	-4.94	
				25	0	22.61	25	30	-5	
				1	0	23.68	26.07	30	-3.93	
	20175	1732.5	16QAM	1	24	23.75	26.14	30	-3.86	
	20170	1702.0	1002/101	12	6	22.6	24.99	30	-5.01	
				25	0	22.57	24.96	30	-5.04	
				1	0	23.8	26.19	30	-3.81	
	20375	1752.5	16QAM	1	24	23.93	26.32	30	-3.68	
	20070			12	6	22.75	25.14	30	-4.86	
				25	0	22.69	25.08	30	-4.92	



Antenna	Antenna gain (dBi) 2.39										
		LTE Band	4_Uplink free	quency	y band :	: 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	24.52	26.91	30	-3.09		
	20000	1715	QPSK	1	24	24.47	26.86	30	-3.14		
	20000	1715	UPSK	12	6	23.42	25.81	30	-4.19		
				25	0	23.43	25.82	30	-4.18		
				1	0	24.54	26.93	30	-3.07		
	20175	1732.5	QPSK	1	24	24.48	26.87	30	-3.13		
	20175	1752.5	QUOK	12	6	23.47	25.86	30	-4.14		
				25	0	23.46	25.85	30	-4.15		
	20375	1750	QPSK	1	0	24.65	27.04	30	-2.96		
				1	24	24.63	27.02	30	-2.98		
	20070			12	6	23.51	25.9	30	-4.1		
10				25	0	23.51	25.9	30	-4.1		
10				1	0	23.82	26.21	30	-3.79		
	20000	1715	16QAM	1	24	23.77	26.16	30	-3.84		
	20000	1710	10 21 111	12	6	22.52	24.91	30	-5.09		
				25	0	22.45	24.84	30	-5.16		
				1	0	23.77	26.16	30	-3.84		
	20175	1732.5	16QAM	1	24	23.73	26.12	30	-3.88		
	20170			12	6	22.52	24.91	30	-5.09		
				25	0	22.49	24.88	30	-5.12		
				1	0	23.94	26.33	30	-3.67		
	20375	1750	16QAM	1	24	24	26.39	30	-3.61		
				12	6	22.64	25.03	30	-4.97		
				25	0	22.58	24.97	30	-5.03		

Antenna gain (dBi) 2.39										
		LTE Band	4_Uplink free	quency	y band :	: 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	24.55	26.94	30	-3.06	
	20025	1717.5	QPSK	1	74	24.52	26.91	30	-3.09	
	20025	1717.5	UF JK	36	19	23.38	25.77	30	-4.23	
				75	0	23.39	25.78	30	-4.22	
				1	0	24.57	26.96	30	-3.04	
	20175	1732.5	QPSK	1	74	24.46	26.85	30	-3.15	
	20175	1752.5		36	19	23.46	25.85	30	-4.15	
				75	0	23.49	25.88	30	-4.12	
	20325	1747.5	QPSK	1	0	24.59	26.98	30	-3.02	
				1	74	24.63	27.02	30	-2.98	
	20525			36	19	23.57	25.96	30	-4.04	
15				75	0	23.58	25.97	30	-4.03	
10				1	0	23.82	26.21	30	-3.79	
	20025	1717.5	16QAM	1	74	23.83	26.22	30	-3.78	
	20020	1717.5	100/101	36	19	22.47	24.86	30	-5.14	
				75	0	22.43	24.82	30	-5.18	
				1	0	23.8	26.19	30	-3.81	
	20175	1732.5	16QAM	1	74	23.73	26.12	30	-3.88	
	20175	1752.5		36	19	22.51	24.9	30	-5.1	
				75	0	22.49	24.88	30	-5.12	
				1	0	23.91	26.3	30	-3.7	
	20325	1747 5	160AM	1	74	23.93	26.32	30	-3.68	
	20323	1747.5	16QAM	36	19	22.66	25.05	30	-4.95	
				75	0	22.62	25.01	30	-4.99	

Antenna gain (dBi) 2.39									
		LTE Band	4_Uplink free	quenc	y band :	: 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	24.62	27.01	30	-2.99
	20050	1720	QPSK	1	99	24.53	26.92	30	-3.08
	20030	1720	QI JIK	50	25	23.4	25.79	30	-4.21
				100	0	23.44	25.83	30	-4.17
				1	0	24.63	27.02	30	-2.98
	20175	1732.5	QPSK	1	99	24.48	26.87	30	-3.13
	20170	1702.0	QI SIX	50	25	23.48	25.87	30	-4.13
				100	0	23.54	25.93	30	-4.07
	20300	1745	QPSK	1	0	24.61	27	30	-3
				1	99	24.55	26.94	30	-3.06
	20000			50	25	23.56	25.95	30	-4.05
20				100	0	23.6	25.99	30	-4.01
20				1	0	23.96	26.35	30	-3.65
	20050	1720	16QAM	1	99	23.71	26.1	30	-3.9
	20000	1720	1002/111	50	25	22.42	24.81	30	-5.19
				100	0	22.45	24.84	30	-5.16
				1	0	23.82	26.21	30	-3.79
	20175	1732.5	16QAM	1	99	23.79	26.18	30	-3.82
	20175	1752.5	1002/101	50	25	22.5	24.89	30	-5.11
				100	0	22.54	24.93	30	-5.07
				1	0	23.86	26.25	30	-3.75
	20300	1745	16QAM	1	99	23.88	26.27	30	-3.73
	20000	1745	16QAM	50	25	22.6	24.99	30	-5.01
				100	0	22.61	25	30	-5



Antenna	Antenna gain (dBi) -3.02									
		LTE Band	d 5_Uplink fre	equen	cy band	1 : 824 to 849	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	24.44	21.42	38.45	-17.03	
	20407	824.7	QPSK	1	5	24.46	21.44	38.45	-17.01	
	20407	024.7	UFJK	3	2	24.43	21.41	38.45	-17.04	
				6	0	23.46	20.44	38.45	-18.01	
				1	0	24.52	21.5	38.45	-16.95	
	20525	836.5	QPSK	1	5	24.49	21.47	38.45	-16.98	
	20525	030.5	UF JK	3	2	24.46	21.44	38.45	-17.01	
				6	0	23.51	20.49	38.45	-17.96	
	20643	848.3	QPSK	1	0	24.37	21.35	38.45	-17.1	
				1	5	24.27	21.25	38.45	-17.2	
				3	2	24.26	21.24	38.45	-17.21	
1.4				6	0	23.36	20.34	38.45	-18.11	
1.7				1	0	23.76	20.74	38.45	-17.71	
	20407	824.7	16QAM	1	5	23.71	20.69	38.45	-17.76	
	20407	024.7		3	2	23.52	20.5	38.45	-17.95	
				6	0	22.48	19.46	38.45	-18.99	
				1	0	23.81	20.79	38.45	-17.66	
	20525	836.5	16QAM	1	5	23.78	20.76	38.45	-17.69	
	20525	030.0		3	2	23.58	20.56	38.45	-17.89	
				6	0	22.54	19.52	38.45	-18.93	
				1	0	23.68	20.66	38.45	-17.79	
	20643	8483	16 0 M	1	5	23.52	20.5	38.45	-17.95	
	20043	848.3	16QAM	3	2	23.35	20.33	38.45	-18.12	
				6	0	22.34	19.32	38.45	-19.13	

SG

Antenna	Antenna gain (dBi) -3.02											
	LTE Band 5_Uplink frequency band : 824 to 849 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	24.37	21.35	38.45	-17.1			
	20415	825.5	QPSK	1	14	24.4	21.38	38.45	-17.07			
	20415	823.3	UPSK	8	4	23.48	20.46	38.45	-17.99			
				15	0	23.48	20.46	38.45	-17.99			
				1	0	24.48	21.46	38.45	-16.99			
	20525	836.5	QPSK	1	14	24.34	21.32	38.45	-17.13			
	20323	030.3	QI JIK	8	4	23.51	20.49	38.45	-17.96			
				15	0	23.51	20.49	38.45	-17.96			
				1	0	24.33	21.31	38.45	-17.14			
	20635	5 847.5	QPSK	1	14	24.19	21.17	38.45	-17.28			
	20033			8	4	23.38	20.36	38.45	-18.09			
3				15	0	23.4	20.38	38.45	-18.07			
5				1	0	23.73	20.71	38.45	-17.74			
	20415	825.5	16QAM	1	14	23.71	20.69	38.45	-17.76			
	20110	020.0	1002/101	8	4	22.49	19.47	38.45	-18.98			
				15	0	22.43	19.41	38.45	-19.04			
				1	0	23.83	20.81	38.45	-17.64			
	20525	836.5	16QAM	1	14	23.67	20.65	38.45	-17.8			
	20020	000.0	1002/101	8	4	22.56	19.54	38.45	-18.91			
				15	0	22.52	19.5	38.45	-18.95			
				1	0	23.59	20.57	38.45	-17.88			
	20635	847.5	16QAM	1	14	23.46	20.44	38.45	-18.01			
	20000	0.710		8	4	22.42	19.4	38.45	-19.05			
				15	0	22.38	19.36	38.45	-19.09			



Antenna	Antenna gain (dBi) -3.02									
		LTE Band	d 5_Uplink fre	equen	cy band	: 824 to 849	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	24.47	21.45	38.45	-17	
	20425	826.5	QPSK	1	24	24.45	21.43	38.45	-17.02	
	20420	020.0	UFJK	12	6	23.57	20.55	38.45	-17.9	
				25	0	23.56	20.54	38.45	-17.91	
				1	0	24.56	21.54	38.45	-16.91	
	20525	836.5	QPSK	1	24	24.49	21.47	38.45	-16.98	
	20525	030.5	UF JK	12	6	23.59	20.57	38.45	-17.88	
				25	0	23.59	20.57	38.45	-17.88	
	20625	846.5	QPSK	1	0	24.37	21.35	38.45	-17.1	
				1	24	24.31	21.29	38.45	-17.16	
				12	6	23.47	20.45	38.45	-18	
5				25	0	23.46	20.44	38.45	-18.01	
5				1	0	23.74	20.72	38.45	-17.73	
	20425	826.5	16QAM	1	24	23.77	20.75	38.45	-17.7	
	20423	020.0		12	6	22.63	19.61	38.45	-18.84	
				25	0	22.6	19.58	38.45	-18.87	
				1	0	23.88	20.86	38.45	-17.59	
	20525	836.5	16QAM	1	24	23.74	20.72	38.45	-17.73	
	20525	030.5	TUQAIN	12	6	22.68	19.66	38.45	-18.79	
				25	0	22.67	19.65	38.45	-18.8	
ŀ				1	0	23.58	20.56	38.45	-17.89	
	20625	846 5	16 0 4M	1	24	23.55	20.53	38.45	-17.92	
	20023	846.5	16QAM	12	6	22.55	19.53	38.45	-18.92	
				25	0	22.5	19.48	38.45	-18.97	



Antenna gain (dBi) -3.02									
		LTE Band	d 5_Uplink fre	equen	cy band	: 824 to 849	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	24.57	21.55	38.45	-16.9
	20450	829	QPSK	1	49	24.6	21.58	38.45	-16.87
	20430	027	UF JK	25	12	23.5	20.48	38.45	-17.97
				50	0	23.51	20.49	38.45	-17.96
				1	0	24.51	21.49	38.45	-16.96
	20525	836.5	QPSK	1	49	24.62	21.6	38.45	-16.85
	20525	030.5	UF JK	25	12	23.58	20.56	38.45	-17.89
				50	0	23.59	20.57	38.45	-17.88
	20600	844	QPSK	1	0	24.56	21.54	38.45	-16.91
				1	49	24.38	21.36	38.45	-17.09
				25	12	23.45	20.43	38.45	-18.02
10				50	0	23.42	20.4	38.45	-18.05
10				1	0	23.77	20.75	38.45	-17.7
	20450	829	16QAM	1	49	23.88	20.86	38.45	-17.59
	20430	027		25	12	22.59	19.57	38.45	-18.88
				50	0	22.55	19.53	38.45	-18.92
				1	0	23.86	20.84	38.45	-17.61
	20525	836.5	16QAM	1	49	23.84	20.82	38.45	-17.63
	20323	030.3		25	12	22.66	19.64	38.45	-18.81
				50	0	22.61	19.59	38.45	-18.86
				1	0	23.81	20.79	38.45	-17.66
	20600	844	16OAM	1	49	23.6	20.58	38.45	-17.87
	20000	844	16QAM	25	12	22.47	19.45	38.45	-19
				50	0	22.43	19.41	38.45	-19.04



Antenna	ntenna gain (dBi) -1.89									
		LTE Band	12_Uplink fr	equen	icy band	d : 699 to 716	6 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	23.68	21.79	34.77	-12.98	
	23017	699.7	QPSK	1	5	23.85	21.96	34.77	-12.81	
	23017	099.7	UFJK	3	2	23.81	21.92	34.77	-12.85	
				6	0	22.79	20.9	34.77	-13.87	
				1	0	23.98	22.09	34.77	-12.68	
	23095	707.5	QPSK	1	5	23.89	22	34.77	-12.77	
	23075	707.5	UF JK	3	2	23.95	22.06	34.77	-12.71	
				6	0	22.93	21.04	34.77	-13.73	
	23173	715.5	QPSK	1	0	24.1	22.21	34.77	-12.56	
				1	5	24.11	22.22	34.77	-12.55	
				3	2	23.99	22.1	34.77	-12.67	
1.4				6	0	23.05	21.16	34.77	-13.61	
1.4				1	0	23.1	21.21	34.77	-13.56	
	23017	699.7	16QAM	1	5	23.13	21.24	34.77	-13.53	
	23017	077.7		3	2	22.85	20.96	34.77	-13.81	
				6	0	21.88	19.99	34.77	-14.78	
				1	0	23.2	21.31	34.77	-13.46	
	23095	707.5	16QAM	1	5	23.28	21.39	34.77	-13.38	
	23073	101.5		3	2	22.86	20.97	34.77	-13.8	
				6	0	22.03	20.14	34.77	-14.63	
				1	0	23.45	21.56	34.77	-13.21	
	23173	715 5	160AM	1	5	23.27	21.38	34.77	-13.39	
	23173	715.5	16QAM	3	2	22.89	21	34.77	-13.77	
				6	0	22.11	20.22	34.77	-14.55	



Antenna	ntenna gain (dBi) -1.89									
		LTE Band	12_Uplink fr	equen	icy band	d : 699 to 716	6 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	23.74	21.85	34.77	-12.92	
	23025	700.5	QPSK	1	14	23.88	21.99	34.77	-12.78	
	23023	700.5	QI JK	8	4	22.8	20.91	34.77	-13.86	
				15	0	22.83	20.94	34.77	-13.83	
				1	0	23.88	21.99	34.77	-12.78	
	23095	707.5	QPSK	1	14	23.98	22.09	34.77	-12.68	
	23073	101.5		8	4	23	21.11	34.77	-13.66	
				15	0	23.01	21.12	34.77	-13.65	
	23165	714.5	QPSK	1	0	24.07	22.18	34.77	-12.59	
				1	14	23.96	22.07	34.77	-12.7	
				8	4	23.07	21.18	34.77	-13.59	
3				15	0	23.11	21.22	34.77	-13.55	
5				1	0	22.64	20.75	34.77	-14.02	
	23025	700.5	16QAM	1	14	23.18	21.29	34.77	-13.48	
	20020	700.0	1002/111	8	4	21.83	19.94	34.77	-14.83	
				15	0	21.84	19.95	34.77	-14.82	
				1	0	23.11	21.22	34.77	-13.55	
	23095	707.5	16QAM	1	14	23.15	21.26	34.77	-13.51	
	20070	101.0		8	4	21.93	20.04	34.77	-14.73	
				15	0	21.91	20.02	34.77	-14.75	
				1	0	23.34	21.45	34.77	-13.32	
	23165	714.5	16QAM	1	14	23.58	21.69	34.77	-13.08	
	23165	714.5	16QAM	8	4	21.97	20.08	34.77	-14.69	
				15	0	21.99	20.1	34.77	-14.67	



Antenna	ntenna gain (dBi) -1.89									
		LTE Band	12_Uplink fr	equen	icy band	d : 699 to 716	6 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	23.8	21.91	34.77	-12.86	
	23035	701.5	QPSK	1	24	23.88	21.99	34.77	-12.78	
	23033	701.5	QI JK	12	6	22.99	21.1	34.77	-13.67	
				25	0	22.99	21.1	34.77	-13.67	
				1	0	24.13	22.24	34.77	-12.53	
	23095	707.5	QPSK	1	24	24.03	22.14	34.77	-12.63	
	23073	101.5		12	6	23.09	21.2	34.77	-13.57	
				25	0	23.09	21.2	34.77	-13.57	
	23155	713.5	QPSK	1	0	24.09	22.2	34.77	-12.57	
				1	24	24.03	22.14	34.77	-12.63	
				12	6	23.13	21.24	34.77	-13.53	
5				25	0	23.16	21.27	34.77	-13.5	
5				1	0	22.85	20.96	34.77	-13.81	
	23035	701.5	16QAM	1	24	23.16	21.27	34.77	-13.5	
	20000	701.0	1002/111	12	6	22.06	20.17	34.77	-14.6	
				25	0	22.07	20.18	34.77	-14.59	
				1	0	23.28	21.39	34.77	-13.38	
	23095	707.5	16QAM	1	24	23.26	21.37	34.77	-13.4	
	20070	101.5	1002/101	12	6	22.22	20.33	34.77	-14.44	
				25	0	22.14	20.25	34.77	-14.52	
				1	0	23.47	21.58	34.77	-13.19	
	23155	713.5	16QAM	1	24	23.53	21.64	34.77	-13.13	
	23155	713.5		12	6	22.2	20.31	34.77	-14.46	
				25	0	22.27	20.38	34.77	-14.39	



Antenna	Antenna gain (dBi) -1.89									
		LTE Band	12_Uplink fr	equen	icy band	d : 699 to 716	6 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	23.85	21.96	34.77	-12.81	
	23060	704	QPSK	1	49	24.24	22.35	34.77	-12.42	
	23000	704	UF JK	25	12	22.98	21.09	34.77	-13.68	
				50	0	23	21.11	34.77	-13.66	
				1	0	23.86	21.97	34.77	-12.8	
	23095	707.5	QPSK	1	49	24.26	22.37	34.77	-12.4	
	23073	101.5		25	12	23.11	21.22	34.77	-13.55	
				50	0	23.08	21.19	34.77	-13.58	
	23130	711	QPSK	1	0	24.21	22.32	34.77	-12.45	
				1	49	24.29	22.4	34.77	-12.37	
				25	12	23.03	21.14	34.77	-13.63	
10				50	0	23.17	21.28	34.77	-13.49	
10				1	0	22.75	20.86	34.77	-13.91	
	23060	704	16QAM	1	49	23.88	21.99	34.77	-12.78	
	20000	,	10 21 111	25	12	21.97	20.08	34.77	-14.69	
				50	0	22.12	20.23	34.77	-14.54	
				1	0	23.42	21.53	34.77	-13.24	
	23095	707.5	16QAM	1	49	23.27	21.38	34.77	-13.39	
	20070			25	12	22.25	20.36	34.77	-14.41	
				50	0	22.1	20.21	34.77	-14.56	
				1	0	22.8	20.91	34.77	-13.86	
	23130	711	16QAM	1	49	23.71	21.82	34.77	-12.95	
	23130	711		25	12	22.21	20.32	34.77	-14.45	
				50	0	22.26	20.37	34.77	-14.4	



Antenna	Antenna gain (dBi) -1.4										
		LTE Band	13_Uplink fr	equen	icy band	d : 777 to 787	' 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	24.27	22.87	34.77	-11.9		
	23205	779.5	QPSK	1	24	24.47	23.07	34.77	-11.7		
	23200	119.0	UPSK	12	6	23.67	22.27	34.77	-12.5		
				25	0	23.51	22.11	34.77	-12.66		
				1	0	24.58	23.18	34.77	-11.59		
	23230	782	QPSK	1	24	24.76	23.36	34.77	-11.41		
	20200	702		12	6	23.45	22.05	34.77	-12.72		
				25	0	23.55	22.15	34.77	-12.62		
	23255	784.5	QPSK	1	0	24.57	23.17	34.77	-11.6		
				1	24	24.85	23.45	34.77	-11.32		
	20200			12	6	23.78	22.38	34.77	-12.39		
5				25	0	23.78	22.38	34.77	-12.39		
Ũ				1	0	23.75	22.35	34.77	-12.42		
	23205	779.5	16QAM	1	24	23.96	22.56	34.77	-12.21		
				12	6	22.77	21.37	34.77	-13.4		
				25	0	22.59	21.19	34.77	-13.58		
				1	0	23.81	22.41	34.77	-12.36		
	23230	782	16QAM	1	24	23.84	22.44	34.77	-12.33		
				12	6	22.56	21.16	34.77	-13.61		
				25	0	22.67	21.27	34.77	-13.5		
				1	0	23.76	22.36	34.77	-12.41		
	23255	784.5	16QAM	1	24	23.84	22.44	34.77	-12.33		
				12	6	22.67	21.27	34.77	-13.5		
				25	0	22.77	21.37	34.77	-13.4		



Antenna	gain (dBi)	-1.4							
		LTE Band	13_Uplink fr	equen	icy band	l : 777 to 787	' 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	24.52	23.12	34.77	-11.65
	23230	782	QPSK	1	49	24.95	23.55	34.77	-11.22
	23230	102	UFJK	25	12	23.63	22.23	34.77	-12.54
10				50	0	23.81	22.41	34.77	-12.36
10				1	0	23.56	22.16	34.77	-12.61
	23230	782	16QAM	1	49	23.89	22.49	34.77	-12.28
	23230	102		25	12	22.72	21.32	34.77	-13.45
				50	0	22.89	21.49	34.77	-13.28



Antenna	Antenna gain (dBi) -1.7									
		LTE Band	14_Uplink fr	equen	icy band	d : 788 to 798	8 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	24.51	22.81	34.77	-11.96	
	23305	790.5	QPSK	1	24	24.54	22.84	34.77	-11.93	
	23300	790.5	UPSK	12	6	23.54	21.84	34.77	-12.93	
				25	0	23.54	21.84	34.77	-12.93	
				1	0	24.56	22.86	34.77	-11.91	
	23330	793	QPSK	1	24	24.61	22.91	34.77	-11.86	
	23330		QI JK	12	6	23.59	21.89	34.77	-12.88	
	23355 795.5		25	0	23.66	21.96	34.77	-12.81		
			QPSK	1	0	24.56	22.86	34.77	-11.91	
		795.5		1	24	24.49	22.79	34.77	-11.98	
	20000			12	6	23.63	21.93	34.77	-12.84	
5				25	0	23.62	21.92	34.77	-12.85	
J				1	0	23.64	21.94	34.77	-12.83	
	23305	790.5	16QAM	1	24	23.66	21.96	34.77	-12.81	
	20000	170.0	1002/111	12	6	22.49	20.79	34.77	-13.98	
				25	0	22.51	20.81	34.77	-13.96	
				1	0	23.64	21.94	34.77	-12.83	
	23330	793	16QAM	1	24	23.73	22.03	34.77	-12.74	
	23330 793	10 21 111	12	6	22.47	20.77	34.77	-14		
				25	0	22.57	20.87	34.77	-13.9	
				1	0	23.63	21.93	34.77	-12.84	
	23355 795.5	16QAM	1	24	23.62	21.92	34.77	-12.85		
		55 795.5	16QAM	12	6	22.5	20.8	34.77	-13.97	
				25	0	22.51	20.81	34.77	-13.96	



Antenna	gain (dBi)	-1.7							
		LTE Band	14_Uplink fr	equen	icy band	d : 788 to 798	8 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	24.62	22.92	34.77	-11.85
	23330	793	QPSK	1	49	24.63	22.93	34.77	-11.84
	23330	175	UF JK	25	12	23.73	22.03	34.77	-12.74
10				50	0	23.8	22.1	34.77	-12.67
10				1	0	23.76	22.06	34.77	-12.71
	23330	793	16QAM	1	49	23.72	22.02	34.77	-12.75
	2000	175	TUQAIN	25	12	22.72	21.02	34.77	-13.75
				50	0	22.77	21.07	34.77	-13.7



Antenna	ntenna gain (dBi) -1.89								
		LTE Band	17_Uplink fr	equen	icy band	d : 704 to 716	6 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	23.64	21.75	34.77	-13.02
	23755	706.5	QPSK	1	24	23.83	21.94	34.77	-12.83
	23700	700.5	UFJK	12	6	22.72	20.83	34.77	-13.94
				25	0	22.75	20.86	34.77	-13.91
				1	0	23.63	21.74	34.77	-13.03
	23790	710	QPSK	1	24	23.79	21.9	34.77	-12.87
	23770	710	QI JK	12	6	22.51	20.62	34.77	-14.15
				25	0	22.6	20.71	34.77	-14.06
		713.5	QPSK	1	0	23.24	21.35	34.77	-13.42
	23825			1	24	23.74	21.85	34.77	-12.92
	23023			12	6	22.72	20.83	34.77	-13.94
5				25	0	22.71	20.82	34.77	-13.95
5				1	0	22.69	20.8	34.77	-13.97
	23755	706.5	16QAM	1	24	23.01	21.12	34.77	-13.65
	20700	700.5	1002/101	12	6	21.76	19.87	34.77	-14.9
				25	0	21.55	19.66	34.77	-15.11
				1	0	23.16	21.27	34.77	-13.5
	23790	710	16QAM	1	24	22.68	20.79	34.77	-13.98
	23790	710	TOCAIN	12	6	21.61	19.72	34.77	-15.05
				25	0	21.29	19.4	34.77	-15.37
				1	0	23.06	21.17	34.77	-13.6
	23825	713.5	16QAM	1	24	22.95	21.06	34.77	-13.71
	20020	, 10.0	16QAM	12	6	21.74	19.85	34.77	-14.92
				25	0	21.79	19.9	34.77	-14.87



Antenna	Intenna gain (dBi) -1.89									
		LTE Band	17_Uplink fr	equen	icy band	d : 704 to 716	6 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	23.68	21.79	34.77	-12.98	
	23780	709	QPSK	1	49	23.87	21.98	34.77	-12.79	
	23700	109	UFJK	25	12	22.72	20.83	34.77	-13.94	
				50	0	22.6	20.71	34.77	-14.06	
				1	0	23.61	21.72	34.77	-13.05	
	23790	710	QPSK	1	49	23.85	21.96	34.77	-12.81	
	20,70	710	QI JK	25	12	22.54	20.65	34.77	-14.12	
				50	0	22.65	20.76	34.77	-14.01	
	23800	711	QPSK	1	0	23.65	21.76	34.77	-13.01	
				1	49	23.89	22	34.77	-12.77	
	23000			25	12	22.64	20.75	34.77	-14.02	
10				50	0	22.68	20.79	34.77	-13.98	
10				1	0	22.81	20.92	34.77	-13.85	
	23780	709	16QAM	1	49	23.03	21.14	34.77	-13.63	
	20700	107	1002/101	25	12	21.69	19.8	34.77	-14.97	
				50	0	21.59	19.7	34.77	-15.07	
				1	0	22.93	21.04	34.77	-13.73	
	23790	710	16QAM	1	49	22.61	20.72	34.77	-14.05	
	20170	, 10	1002/111	25	12	21.68	19.79	34.77	-14.98	
				50	0	21.4	19.51	34.77	-15.26	
				1	0	23.24	21.35	34.77	-13.42	
	23800	711	16QAM	1	49	23.08	21.19	34.77	-13.58	
	23800	0 711	16QAM	25	12	21.75	19.86	34.77	-14.91	
					50	0	21.63	19.74	34.77	-15.03



Antenna	gain (dBi)	2.48										
	LTE Band 25_Uplink frequency band : 1850 to 1915 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	24.6	27.08	33	-5.92			
	26047	1850.7	QPSK	1	5	24.69	27.17	33	-5.83			
	20047	1800.7	QPSK	3	2	24.5	26.98	33	-6.02			
				6	0	23.55	26.03	33	-6.97			
				1	0	24.48	26.96	33	-6.04			
	26365	1882.5	QPSK	1	5	24.56	27.04	33	-5.96			
	20303 1002.3	1002.0	UFJK	3	2	24.5	26.98	33	-6.02			
				6	0	23.49	25.97	33	-7.03			
		1914.3	QPSK	1	0	24.33	26.81	33	-6.19			
	26683			1	5	24.22	26.7	33	-6.3			
	20003			3	2	24.19	26.67	33	-6.33			
1.4				6	0	23.34	25.82	33	-7.18			
1.4				1	0	23.95	26.43	33	-6.57			
	26047	1850.7	16QAM	1	5	23.25	25.73	33	-7.27			
	20047	1050.7	TOQAM	3	2	23.59	26.07	33	-6.93			
				6	0	22.77	25.25	33	-7.75			
				1	0	23.7	26.18	33	-6.82			
	26365	1882.5	16QAM	1	5	23.49	25.97	33	-7.03			
	26365	1002.0	TUQAIM	3	2	23.51	25.99	33	-7.01			
				6	0	22.64	25.12	33	-7.88			
				1	0	23.45	25.93	33	-7.07			
	26683	1914.3	160AM	1	5	23.5	25.98	33	-7.02			
		1717.5	16QAM	3	2	23.23	25.71	33	-7.29			
			-	6	0	22.41	24.89	33	-8.11			



Antenna	gain (dBi)	2.48							
		LTE Band 2	25_Uplink fre	quenc	y band	: 1850 to 19 ⁻	15 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	24.51	26.99	33	-6.01
	2/055	10F1 F	QPSK	1	14	24.74	27.22	33	-5.78
	26055	1851.5	QPSK	8	4	23.63	26.11	33	-6.89
				15	0	23.67	26.15	33	-6.85
				1	0	24.56	27.04	33	-5.96
	26365	1882.5	QPSK	1	14	24.53	27.01	33	-5.99
	20305	1002.0	UF JK	8	4	23.48	25.96	33	-7.04
				15	0	23.52	26	33	-7
			QPSK	1	0	24.35	26.83	33	-6.17
	26675	1913.5		1	14	24.36	26.84	33	-6.16
	20075			8	4	23.56	26.04	33	-6.96
3				15	0	23.53	26.01	33	-6.99
5				1	0	24	26.48	33	-6.52
	26055	1851.5	16QAM	1	14	23.91	26.39	33	-6.61
	20000	1001.0	100/101	8	4	22.67	25.15	33	-7.85
				15	0	22.8	25.28	33	-7.72
				1	0	23.57	26.05	33	-6.95
	26365	1882.5	16QAM	1	14	23.74	26.22	33	-6.78
	26365 1	1002.5	100/101	8	4	22.48	24.96	33	-8.04
				15	0	22.52	25	33	-8
				1	0	23.67	26.15	33	-6.85
	26675 1913.5	16QAM	1	14	22.81	25.29	33	-7.71	
		10 27 1111	8	4	22.34	24.82	33	-8.18	
			15	0	22.52	25	33	-8	



Antenna	gain (dBi)	2.48							
		LTE Band 2	25_Uplink fre	quenc	y band	: 1850 to 19 ⁻	15 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	24.63	27.11	33	-5.89
	26065	10E0 E	QPSK	1	24	24.57	27.05	33	-5.95
	20000	1852.5	QPSK	12	6	23.86	26.34	33	-6.66
				25	0	23.86	26.34	33	-6.66
				1	0	24.56	27.04	33	-5.96
	26365	1882.5	QPSK	1	24	24.54	27.02	33	-5.98
	20305		UF JK	12	6	23.67	26.15	33	-6.85
				25	0	23.62	26.1	33	-6.9
			QPSK	1	0	24.35	26.83	33	-6.17
	26665	1912.5		1	24	24.31	26.79	33	-6.21
	20000			12	6	23.65	26.13	33	-6.87
5				25	0	23.63	26.11	33	-6.89
5				1	0	23.66	26.14	33	-6.86
	26065	1852.5	16QAM	1	24	23.53	26.01	33	-6.99
	20000	1002.0	100/101	12	6	22.91	25.39	33	-7.61
				25	0	22.97	25.45	33	-7.55
				1	0	23.77	26.25	33	-6.75
	26365	1882.5	16QAM	1	24	23.98	26.46	33	-6.54
	26365	1002.0	100/101	12	6	22.7	25.18	33	-7.82
				25	0	22.74	25.22	33	-7.78
				1	0	23.39	25.87	33	-7.13
	26665 1912.5	1912.5	16QAM	1	24	23.4	25.88	33	-7.12
		1,712.0	16QAM	12	6	22.57	25.05	33	-7.95
					25	0	22.56	25.04	33



Antenna	gain (dBi)	2.48							
		LTE Band 2	25_Uplink fre	quenc	y band	: 1850 to 19 ⁻	15 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	24.54	27.02	33	-5.98
	26090	1855	QPSK	1	49	24.36	26.84	33	-6.16
	20090	1000	QPSK	25	12	23.95	26.43	33	-6.57
				50	0	23.97	26.45	33	-6.55
				1	0	24.45	26.93	33	-6.07
	26365	1882.5	QPSK	1	49	24.31	26.79	33	-6.21
		1002.0	QLOK	25	12	23.81	26.29	33	-6.71
				50	0	23.75	26.23	33	-6.77
		40 1910	QPSK	1	0	24.45	26.93	33	-6.07
	26640			1	49	24.29	26.77	33	-6.23
	20010			25	12	23.61	26.09	33	-6.91
10				50	0	23.64	26.12	33	-6.88
10				1	0	23.96	26.44	33	-6.56
	26090	1855	16QAM	1	49	23.83	26.31	33	-6.69
	20070	1000	1002/111	25	12	22.96	25.44	33	-7.56
				50	0	22.91	25.39	33	-7.61
				1	0	23.85	26.33	33	-6.67
	26365	1882.5	16QAM	1	49	23.55	26.03	33	-6.97
	26365	1002.0	100/101	25	12	22.89	25.37	33	-7.63
				50	0	22.87	25.35	33	-7.65
				1	0	23.55	26.03	33	-6.97
	26640	1910	16QAM	1	49	23.12	25.6	33	-7.4
		1710	16QAM	25	12	22.76	25.24	33	-7.76
				50	0	22.72	25.2	33	-7.8



Antenna	gain (dBi)	2.48							
		LTE Band 2	25_Uplink fre	quenc	y band	: 1850 to 19 ⁻	15 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	24.4	26.88	33	-6.12
	2/115	10F7 F	ODCK	1	74	24.48	26.96	33	-6.04
	26115	1857.5	QPSK	36	19	23.9	26.38	33	-6.62
				75	0	23.9	26.38	33	-6.62
				1	0	24.81	27.29	33	-5.71
	26365	1882.5	QPSK	1	74	24.42	26.9	33	-6.1
	20300	1002.0	UFJK	36	19	23.78	26.26	33	-6.74
				75	0	23.72	26.2	33	-6.8
			QPSK	1	0	24.65	27.13	33	-5.87
	26615	1907.5		1	74	24.25	26.73	33	-6.27
	20015			36	19	23.63	26.11	33	-6.89
15				75	0	23.82	26.3	33	-6.7
15				1	0	23.96	26.44	33	-6.56
	26115	1857.5	16QAM	1	74	23.44	25.92	33	-7.08
	20115	1007.0	100/101	36	19	22.97	25.45	33	-7.55
				75	0	22.93	25.41	33	-7.59
				1	0	23.95	26.43	33	-6.57
	26365	1882.5	16QAM	1	74	23.49	25.97	33	-7.03
	26365	1002.0	TOQAM	36	19	22.94	25.42	33	-7.58
				75	0	22.91	25.39	33	-7.61
				1	0	23.8	26.28	33	-6.72
	26615 1907.5	1907 5	16QAM	1	74	23.55	26.03	33	-6.97
			36	19	22.91	25.39	33	-7.61	
				75	0	22.76	25.24	33	-7.76



Antenna	gain (dBi)	2.48							
		LTE Band 2	25_Uplink fre	quenc	y band	: 1850 to 19 ⁻	15 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	24.5	26.98	33	-6.02
	26140	1860	QPSK	1	99	24.66	27.14	33	-5.86
	20140	1800	QPSK	50	25	23.87	26.35	33	-6.65
				100	0	23.84	26.32	33	-6.68
				1	0	24.76	27.24	33	-5.76
	26365	1882.5	QPSK	1	99	24.48	26.96	33	-6.04
		1002.0	UFJK	50	25	23.76	26.24	33	-6.76
				100	0	23.74	26.22	33	-6.78
		1905	QPSK	1	0	24.62	27.1	33	-5.9
	26590			1	99	24.2	26.68	33	-6.32
	20370			50	25	23.68	26.16	33	-6.84
20				100	0	23.81	26.29	33	-6.71
20				1	0	23.95	26.43	33	-6.57
	26140	1860	16QAM	1	99	23.98	26.46	33	-6.54
	20140	1000	100/101	50	25	22.98	25.46	33	-7.54
				100	0	22.96	25.44	33	-7.56
				1	0	23.59	26.07	33	-6.93
	26365	1882.5	16QAM	1	99	23.69	26.17	33	-6.83
	26365	1002.0	TOQAM	50	25	22.91	25.39	33	-7.61
				100	0	22.85	25.33	33	-7.67
				1	0	23.91	26.39	33	-6.61
	26590	1905	16QAM	1	99	23.47	25.95	33	-7.05
	26590	1905	16QAM	50	25	22.78	25.26	33	-7.74
				100	0	22.89	25.37	33	-7.63



Antenna	Antenna gain (dBi) -3.02									
		LTE Band	26_Uplink fr	equen	icy band	d : 824 to 849	9 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	24.51	21.49	38.45	-16.96	
	26797	824.7	QPSK	1	5	24.56	21.54	38.45	-16.91	
	20191	024.7	UFJK	3	2	24.5	21.48	38.45	-16.97	
				6	0	23.48	20.46	38.45	-17.99	
				1	0	24.47	21.45	38.45	-17	
	26915	836.5	QPSK	1	5	24.5	21.48	38.45	-16.97	
	20715	030.5	UF JK	3	2	24.55	21.53	38.45	-16.92	
				6	0	23.57	20.55	38.45	-17.9	
ľ		848.3	QPSK	1	0	24.54	21.52	38.45	-16.93	
	27033			1	5	24.23	21.21	38.45	-17.24	
	27033			3	2	24.39	21.37	38.45	-17.08	
1.4				6	0	23.5	20.48	38.45	-17.97	
1.7				1	0	23.53	20.51	38.45	-17.94	
	26797	824.7	16QAM	1	5	24.01	20.99	38.45	-17.46	
	20171	024.7		3	2	23.56	20.54	38.45	-17.91	
				6	0	22.6	19.58	38.45	-18.87	
				1	0	23.87	20.85	38.45	-17.6	
	26915	836.5	16QAM	1	5	23.96	20.94	38.45	-17.51	
	20713	030.5	TUQAIN	3	2	23.32	20.3	38.45	-18.15	
				6	0	22.71	19.69	38.45	-18.76	
				1	0	23.89	20.87	38.45	-17.58	
	27033	848 3	160AM	1	5	23.58	20.56	38.45	-17.89	
	27055	27033 848.3	16QAM	3	2	23.57	20.55	38.45	-17.9	
				6	0	22.41	19.39	38.45	-19.06	

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Antenna gain (dBi) -3.02											
LTE Band 26_Uplink frequency band : 824 to 849 MHz											
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)		
3	26805	825.5	QPSK	1	0	24.4	21.38	38.45	-17.07		
				1	14	24.38	21.36	38.45	-17.09		
				8	4	23.59	20.57	38.45	-17.88		
				15	0	23.6	20.58	38.45	-17.87		
	26915	836.5	QPSK	1	0	24.51	21.49	38.45	-16.96		
				1	14	24.53	21.51	38.45	-16.94		
				8	4	23.55	20.53	38.45	-17.92		
				15	0	23.59	20.57	38.45	-17.88		
	27025	847.5	QPSK	1	0	24.49	21.47	38.45	-16.98		
				1	14	24.32	21.3	38.45	-17.15		
				8	4	23.49	20.47	38.45	-17.98		
				15	0	23.53	20.51	38.45	-17.94		
-	26805	825.5	16QAM	1	0	23.78	20.76	38.45	-17.69		
				1	14	23.55	20.53	38.45	-17.92		
				8	4	22.63	19.61	38.45	-18.84		
				15	0	22.61	19.59	38.45	-18.86		
	26915	836.5	16QAM	1	0	23.44	20.42	38.45	-18.03		
				1	14	23.85	20.83	38.45	-17.62		
				8	4	22.68	19.66	38.45	-18.79		
				15	0	22.72	19.7	38.45	-18.75		
	27025	847.5	16QAM	1	0	23.96	20.94	38.45	-17.51		
				1	14	23.63	20.61	38.45	-17.84		
				8	4	22.48	19.46	38.45	-18.99		
				15	0	22.5	19.48	38.45	-18.97		

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Antenna gain (dBi) -3.02											
LTE Band 26_Uplink frequency band : 824 to 849 MHz											
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)		
5	26815	826.5	QPSK	1	0	24.44	21.42	38.45	-17.03		
				1	24	24.51	21.49	38.45	-16.96		
				12	6	23.66	20.64	38.45	-17.81		
				25	0	23.67	20.65	38.45	-17.8		
	26915	836.5	QPSK	1	0	24.44	21.42	38.45	-17.03		
				1	24	24.63	21.61	38.45	-16.84		
				12	6	23.41	20.39	38.45	-18.06		
				25	0	23.63	20.61	38.45	-17.84		
	27015	846.5	QPSK	1	0	24.52	21.5	38.45	-16.95		
				1	24	24.33	21.31	38.45	-17.14		
				12	6	23.62	20.6	38.45	-17.85		
				25	0	23.61	20.59	38.45	-17.86		
	26815	826.5	16QAM	1	0	22.99	19.97	38.45	-18.48		
				1	24	23.69	20.67	38.45	-17.78		
				12	6	22.68	19.66	38.45	-18.79		
				25	0	22.64	19.62	38.45	-18.83		
	26915	836.5	16QAM	1	0	23.56	20.54	38.45	-17.91		
				1	24	23.82	20.8	38.45	-17.65		
				12	6	22.76	19.74	38.45	-18.71		
				25	0	22.7	19.68	38.45	-18.77		
	27015	846.5	16QAM	1	0	23.5	20.48	38.45	-17.97		
				1	24	23.77	20.75	38.45	-17.7		
				12	6	22.56	19.54	38.45	-18.91		
				25	0	22.59	19.57	38.45	-18.88		



Antenna	ntenna gain (dBi) -3.02								
		LTE Band	26_Uplink fr	equen	icy band	d : 824 to 849	9 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	24.46	21.44	38.45	-17.01
	26840	829	QPSK	1	49	24.71	21.69	38.45	-16.76
	20040	029	UFJK	25	12	23.59	20.57	38.45	-17.88
				50	0	23.62	20.6	38.45	-17.85
				1	0	24.64	21.62	38.45	-16.83
	26915	836.5	QPSK	1	49	24.53	21.51	38.45	-16.94
	20715	030.5	UF JK	25	12	23.56	20.54	38.45	-17.91
				50	0	23.6	20.58	38.45	-17.87
	26990	844	QPSK	1	0	24.54	21.52	38.45	-16.93
				1	49	24.51	21.49	38.45	-16.96
				25	12	23.53	20.51	38.45	-17.94
10				50	0	23.59	20.57	38.45	-17.88
10				1	0	24.17	21.15	38.45	-17.3
	26840	829	16QAM	1	49	23.92	20.9	38.45	-17.55
	20040	027		25	12	22.64	19.62	38.45	-18.83
				50	0	22.65	19.63	38.45	-18.82
				1	0	24.03	21.01	38.45	-17.44
	26915	836.5	16QAM	1	49	24.14	21.12	38.45	-17.33
	20910	030.0	TOQAIN	25	12	22.76	19.74	38.45	-18.71
				50	0	22.64	19.62	38.45	-18.83
				1	0	23.96	20.94	38.45	-17.51
	26990	Q <i>11</i>	16 0 M	1	49	23.78	20.76	38.45	-17.69
	20990	844	16QAM	25	12	22.54	19.52	38.45	-18.93
				50	0	22.49	19.47	38.45	-18.98

Antenna gain (dBi) -3.02									
		LTE Band	26_Uplink fr	equen	icy band	d : 824 to 849	9 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	24.83	21.81	38.45	-16.64
	26865	831.5	QPSK	1	74	24.83	21.81	38.45	-16.64
	20003	001.0	QI JIK	36	19	23.69	20.67	38.45	-17.78
				75	0	23.58	20.56	38.45	-17.89
				1	0	24.41	21.39	38.45	-17.06
	26915	836.5	QPSK	1	74	24.52	21.5	38.45	-16.95
	20713	000.0	QUOK	36	19	23.52	20.5	38.45	-17.95
				75	0	23.59	20.57	38.45	-17.88
	26965	841.5	QPSK	1	0	24.58	21.56	38.45	-16.89
				1	74	24.58	21.56	38.45	-16.89
	20700			36	19	23.56	20.54	38.45	-17.91
15				75	0	23.6	20.58	38.45	-17.87
10				1	0	23.93	20.91	38.45	-17.54
	26865	831.5	16QAM	1	74	23.98	20.96	38.45	-17.49
	20000	00110	10 21 111	36	19	22.76	19.74	38.45	-18.71
				75	0	22.78	19.76	38.45	-18.69
				1	0	23.87	20.85	38.45	-17.6
	26915	836.5	16QAM	1	74	24.1	21.08	38.45	-17.37
	20710	000.0	1002/111	36	19	22.6	19.58	38.45	-18.87
				75	0	22.61	19.59	38.45	-18.86
				1	0	23.98	20.96	38.45	-17.49
	26965	841.5	16QAM	1	74	23.8	20.78	38.45	-17.67
	20700	841.5	16QAM	36	19	22.59	19.57	38.45	-18.88
				75	0	22.54	19.52	38.45	-18.93

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Antenna	Antenna gain (dBi) -3.02									
	Pa	art 90S_LTE I	Band 26_Upl	ink fre	quency	band : 814 t	o 824 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	24.55	21.53	50	-28.47	
	26697	814.7	QPSK	1	5	24.58	21.56	50	-28.44	
	20097	014.7	UFJK	3	2	24.51	21.49	50	-28.51	
				6	0	23.63	20.61	50	-29.39	
				1	0	24.53	21.51	50	-28.49	
	26740	819	QPSK	1	5	24.55	21.53	50	-28.47	
	20740	017	QI JIK	3	2	24.52	21.5	50	-28.5	
				6	0	23.57	20.55	50	-29.45	
	26783	823.3		1	0	24.55	21.53	50	-28.47	
			QPSK	1	5	24.42	21.4	50	-28.6	
	20703			3	2	24.47	21.45	50	-28.55	
1.4				6	0	23.57	20.55	50	-29.45	
1.1				1	0	23.7	20.68	50	-29.32	
	26697	814.7	16QAM	1	5	23.85	20.83	50	-29.17	
	20077	011.7	1002/101	3	2	23.46	20.44	50	-29.56	
				6	0	22.53	19.51	50	-30.49	
				1	0	23.99	20.97	50	-29.03	
	26740	819	16QAM	1	5	24.15	21.13	50	-28.87	
	20710	017	1002/101	3	2	23.75	20.73	50	-29.27	
				6	0	22.65	19.63	50	-30.37	
				1	0	23.83	20.81	50	-29.19	
	26783	823.3	16QAM	1	5	23.71	20.69	50	-29.31	
	20100	823.3	16QAM	3	2	23.75	20.73	50	-29.27	
				6	0	22.65	19.63	50	-30.37	

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Antenna	ntenna gain (dBi) -3.02									
	Pa	art 90S_LTE I	Band 26_Upl	ink fre	quency					
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)	
				1	0	24.41	21.39	50	-28.61	
	26705	815.5	QPSK	1	14	24.53	21.51	50	-28.49	
	20705	010.0	UPSK	8	4	23.6	20.58	50	-29.42	
				15	0	23.61	20.59	50	-29.41	
				1	0	24.51	21.49	50	-28.51	
	26740	819	QPSK	1	14	24.48	21.46	50	-28.54	
	20740	017		8	4	23.55	20.53	50	-29.47	
				15	0	23.61	20.59	50	-29.41	
		822.5		1	0	24.49	21.47	50	-28.53	
	26775		QPSK	1	14	24.37	21.35	50	-28.65	
	20115			8	4	23.55	20.53	50	-29.47	
3				15	0	23.58	20.56	50	-29.44	
Ŭ				1	0	23.77	20.75	50	-29.25	
	26705	815.5	16QAM	1	14	23.89	20.87	50	-29.13	
	20700	010.0	1002/101	8	4	22.69	19.67	50	-30.33	
				15	0	22.56	19.54	50	-30.46	
				1	0	23.14	20.12	50	-29.88	
	26740	819	16QAM	1	14	23.94	20.92	50	-29.08	
	20710	017	10 21 111	8	4	22.66	19.64	50	-30.36	
				15	0	22.69	19.67	50	-30.33	
				1	0	23.66	20.64	50	-29.36	
	26775	822.5	16QAM	1	14	23.81	20.79	50	-29.21	
				8	4	22.41	19.39	50	-30.61	
				15	0	22.56	19.54	50	-30.46	



Antenna	Antenna gain (dBi) -3.02								
	Pa	rt 90S_LTE I	Band 26_Upl	ink fre	quency	band : 814 t	o 824 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	24.53	21.51	50	-28.49
	26715	816.5	QPSK	1	24	24.5	21.48	50	-28.52
	20713	010.5	QI JIK	12	6	23.65	20.63	50	-29.37
				25	0	23.61	20.59	50	-29.41
				1	0	24.48	21.46	50	-28.54
	26740	819	QPSK	1	24	24.45	21.43	50	-28.57
	20740	017	QUOK	12	6	23.59	20.57	50	-29.43
				25	0	23.65	20.63	50	-29.37
	26765	821.5	QPSK	1	0	24.49	21.47	50	-28.53
				1	24	24.55	21.53	50	-28.47
	20703			12	6	23.63	20.61	50	-29.39
5				25	0	23.54	20.52	50	-29.48
5				1	0	23.95	20.93	50	-29.07
	26715	816.5	16QAM	1	24	23.71	20.69	50	-29.31
	20715	010.5	1002/101	12	6	22.72	19.7	50	-30.3
				25	0	22.68	19.66	50	-30.34
				1	0	23.8	20.78	50	-29.22
	26740	819	16QAM	1	24	23.94	20.92	50	-29.08
	20740	017		12	6	22.69	19.67	50	-30.33
				25	0	22.72	19.7	50	-30.3
				1	0	24.18	21.16	50	-28.84
	26765	821.5	16OAM	1	24	23.52	20.5	50	-29.5
	20703	021.0	16QAM	12	6	22.61	19.59	50	-30.41
				25	0	22.69	19.67	50	-30.33



Antenna	gain (dBi)	-3.02							
	Pa	art 90S_LTE I	Band 26_Upl	ink fre	quency	band : 814 t	o 824 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	24.46	21.44	50	-28.56
	26740	819	QPSK	1	49	24.66	21.64	50	-28.36
	20740	017	UF JK	25	12	23.48	20.46	50	-29.54
10				50	0	23.58	20.56	50	-29.44
10				1	0	23.89	20.87	50	-29.13
	26740	819	16QAM	1	49	23.93	20.91	50	-29.09
	20740	017		25	12	22.68	19.66	50	-30.34
				50	0	22.57	19.55	50	-30.45



Antenna	Antenna gain (dBi) 2.33									
		LTE Band 3	30_Uplink fre	quenc	y band	: 2305 to 231	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	20.05	22.38	24	-1.62	
	27685	2307.5	QPSK	1	24	19.65	21.98	24	-2.02	
	27005	2307.3	UF SK	12	6	18.57	20.9	24	-3.1	
				25	0	18.7	21.03	24	-2.97	
				1	0	19.71	22.04	24	-1.96	
	27710	2310	QPSK	1	24	19.86	22.19	24	-1.81	
	27710	2010	QUOR	12	6	18.74	21.07	24	-2.93	
				25	0	18.81	21.14	24	-2.86	
	27735	2312.5	QPSK	1	0	19.82	22.15	24	-1.85	
				1	24	19.86	22.19	24	-1.81	
	_//00			12	6	18.75	21.08	24	-2.92	
5				25	0	18.74	21.07	24	-2.93	
				1	0	19.1	21.43	24	-2.57	
	27685	2307.5	16QAM	1	24	18.89	21.22	24	-2.78	
				12	6	17.59	19.92	24	-4.08	
				25	0	17.66	19.99	24	-4.01	
				1	0	19.25	21.58	24	-2.42	
	27710	2310	16QAM	1	24	19.46	21.79	24	-2.21	
				12	6	17.85	20.18	24	-3.82	
				25	0	17.78	20.11	24	-3.89	
				1	0	19.14	21.47	24	-2.53	
	27735	2312.5	16QAM	1	24	19.22	21.55	24	-2.45	
				12	6	17.69	20.02	24	-3.98	
				25	0	17.7	20.03	24	-3.97	



Antenna	gain (dBi)	2.33							
		LTE Band 3	30_Uplink fre	quenc	y band	: 2305 to 231	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	19.94	22.27	24	-1.73
	27710	2310	QPSK	1	49	20.01	22.34	24	-1.66
	27710	2310	UFJK	25	12	18.91	21.24	24	-2.76
10				50	0	18.98	21.31	24	-2.69
10				1	0	19.19	21.52	24	-2.48
	27710	2310	16QAM	1	49	19.46	21.79	24	-2.21
	21110	2010	TOQAW	25	12	17.95	20.28	24	-3.72
				50	0	18.13	20.46	24	-3.54



Antenna	Antenna gain (dBi) -0.81									
		LTE Band 3	38_Uplink fre	quenc	y band	: 2570 to 262	20 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	24.17	23.36	33	-9.64	
	37775	2572.5	QPSK	1	24	24.13	23.32	33	-9.68	
	37773	2372.3	QI JIK	12	6	23.25	22.44	33	-10.56	
				25	0	23.3	22.49	33	-10.51	
				1	0	24.24	23.43	33	-9.57	
	38000	2595	QPSK	1	24	24.05	23.24	33	-9.76	
	30000	2070	QI SIX	12	6	23.24	22.43	33	-10.57	
				25	0	23.23	22.42	33	-10.58	
	38225	2617.5	QPSK	1	0	24.3	23.49	33	-9.51	
				1	24	24.42	23.61	33	-9.39	
	00220			12	6	23.43	22.62	33	-10.38	
5				25	0	23.42	22.61	33	-10.39	
Ũ				1	0	23.5	22.69	33	-10.31	
	37775	2572.5	16QAM	1	24	23.42	22.61	33	-10.39	
	0///0	2072.0	1002/101	12	6	22.22	21.41	33	-11.59	
				25	0	22.34	21.53	33	-11.47	
				1	0	23.19	22.38	33	-10.62	
	38000	2595	16QAM	1	24	23.21	22.4	33	-10.6	
	30000	2070	100/101	12	6	22.29	21.48	33	-11.52	
				25	0	22.23	21.42	33	-11.58	
				1	0	23.55	22.74	33	-10.26	
	38225	2617.5	16QAM	1	24	23.61	22.8	33	-10.2	
	00220	2617.5	16QAM	12	6	22.47	21.66	33	-11.34	
				25	0	22.5	21.69	33	-11.31	



Antenna	Antenna gain (dBi) -0.81									
		LTE Band 3	38_Uplink fre	quenc	y band	: 2570 to 262	20 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	24.43	23.62	33	-9.38	
	37800	2575	QPSK	1	49	24.19	23.38	33	-9.62	
	37000	2373		25	12	23.31	22.5	33	-10.5	
				50	0	23.27	22.46	33	-10.54	
				1	0	24.16	23.35	33	-9.65	
	38000	2595	QPSK	1	49	24.17	23.36	33	-9.64	
	30000	2070	QUOR	25	12	23.25	22.44	33	-10.56	
				50	0	23.23	22.42	33	-10.58	
	38200	00 2615	QPSK	1	0	24.31	23.5	33	-9.5	
				1	49	24.34	23.53	33	-9.47	
	30200			25	12	23.49	22.68	33	-10.32	
10				50	0	23.44	22.63	33	-10.37	
10				1	0	23.3	22.49	33	-10.51	
	37800	2575	16QAM	1	49	23.07	22.26	33	-10.74	
	37000	2010	1002/101	25	12	22.45	21.64	33	-11.36	
				50	0	22.23	21.42	33	-11.58	
				1	0	23.53	22.72	33	-10.28	
	38000	2595	16QAM	1	49	23.24	22.43	33	-10.57	
	30000	2070	1002/101	25	12	22.37	21.56	33	-11.44	
				50	0	22.28	21.47	33	-11.53	
				1	0	23.46	22.65	33	-10.35	
	38200	2615	16QAM	1	49	23.66	22.85	33	-10.15	
	30200	2013		25	12	22.53	21.72	33	-11.28	
				50	0	22.51	21.7	33	-11.3	



Antenna	Antenna gain (dBi) -0.81									
		LTE Band 3	38_Uplink fre	quenc	y band	: 2570 to 262	20 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	24.28	23.47	33	-9.53	
	37825	2577.5	QPSK	1	74	24.21	23.4	33	-9.6	
	57025	2377.3	QI SK	36	19	23.28	22.47	33	-10.53	
				75	0	23.26	22.45	33	-10.55	
				1	0	24.09	23.28	33	-9.72	
	38000	2595	QPSK	1	74	24.2	23.39	33	-9.61	
	30000	2070	QUOR	36	19	23.27	22.46	33	-10.54	
				75	0	23.23	22.42	33	-10.58	
	38175	2612.5	QPSK	1	0	24.24	23.43	33	-9.57	
				1	74	24.59	23.78	33	-9.22	
	00170	2012.0		36	19	23.39	22.58	33	-10.42	
15				75	0	23.36	22.55	33	-10.45	
10				1	0	23.78	22.97	33	-10.03	
	37825	2577.5	16QAM	1	74	23.16	22.35	33	-10.65	
	07020	2011.0	1002/111	36	19	22.26	21.45	33	-11.55	
				75	0	22.22	21.41	33	-11.59	
				1	0	23.22	22.41	33	-10.59	
	38000	2595	16QAM	1	74	23.43	22.62	33	-10.38	
	30000	2070	1002/101	36	19	22.29	21.48	33	-11.52	
				75	0	22.24	21.43	33	-11.57	
				1	0	23.34	22.53	33	-10.47	
	38175	2612.5	16QAM	1	74	23.63	22.82	33	-10.18	
	00170	38175 2612.5	16QAM	36	19	22.38	21.57	33	-11.43	
				75	0	22.32	21.51	33	-11.49	



Antenna	Antenna gain (dBi) -0.81									
		LTE Band 3	38_Uplink fre	quenc	y band	: 2570 to 262	20 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	24.37	23.56	33	-9.44	
	37850	2580	QPSK	1	99	24.25	23.44	33	-9.56	
	37030	2300	QI JIK	50	25	23.23	22.42	33	-10.58	
				100	0	23.27	22.46	33	-10.54	
				1	0	24.13	23.32	33	-9.68	
	38000	2595	QPSK	1	99	24.53	23.72	33	-9.28	
	30000	2070	QI SIX	50	25	23.2	22.39	33	-10.61	
				100	0	23.26	22.45	33	-10.55	
	38150	2610	QPSK	1	0	24.2	23.39	33	-9.61	
				1	99	24.37	23.56	33	-9.44	
	30130	2010		50	25	23.35	22.54	33	-10.46	
20				100	0	23.36	22.55	33	-10.45	
20				1	0	23.43	22.62	33	-10.38	
	37850	2580	16QAM	1	99	23.43	22.62	33	-10.38	
	07000	2000	1002/101	50	25	22.24	21.43	33	-11.57	
				100	0	22.29	21.48	33	-11.52	
				1	0	23.36	22.55	33	-10.45	
	38000	2595	16QAM	1	99	23.58	22.77	33	-10.23	
	30000	2070	100/101	50	25	22.23	21.42	33	-11.58	
				100	0	22.23	21.42	33	-11.58	
				1	0	23.76	22.95	33	-10.05	
	38150	2610	16QAM	1	99	23.42	22.61	33	-10.39	
	00100	2010		50	25	22.37	21.56	33	-11.44	
				100	0	22.34	21.53	33	-11.47	



Antenna	Intenna gain (dBi) -0.81 LTE Band 41_Uplink frequency band : 2496 to 2690 MHz										
		LTE Band 4	11_Uplink fre	quenc	y band		90 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	24.89	24.08	33	-8.92		
	39675	2498.5	QPSK	1	24	24.74	23.93	33	-9.07		
	37075	2470.3	UF JK	12	6	23.9	23.09	33	-9.91		
				25	0	23.95	23.14	33	-9.86		
				1	0	24.26	23.45	33	-9.55		
	40620	2593	QPSK	1	24	24.15	23.34	33	-9.66		
	40020	2373	⁷ 5 QI SIX	12	6	23.36	22.55	33	-10.45		
				25	0	23.36	22.55	33	-10.45		
		2687.5	QPSK	1	0	24.88	24.07	33	-8.93		
	41565			1	24	24.96	24.15	33	-8.85		
				12	6	23.88	23.07	33	-9.93		
5				25	0	23.91	23.1	33	-9.9		
5				1	0	23.83	23.02	33	-9.98		
	39675	2498.5	16QAM	1	24	23.83	23.02	33	-9.98		
	37073	2470.0		12	6	22.95	22.14	33	-10.86		
				25	0	23	22.19	33	-10.81		
				1	0	23.27	22.46	33	-10.54		
	40620	2503	16 0 0M	1	24	22.95	22.14	33	-10.86		
	40620 2593 16QAM		12	6	22.38	21.57	33	-11.43			
				25	0	22.34	21.53	33	-11.47		
				1	0	23.83	23.02	33	-9.98		
	41565	2687 5	160AM	1	24	23.88	23.07	33	-9.93		
	+1303	2687.5	16QAM	12	6	22.96	22.15	33	-10.85		
				25	0	22.94	22.13	33	-10.87		



Antenna	Antenna gain (dBi) -0.81 LTE Band 41_Uplink frequency band : 2496 to 2690 MHz										
		LTE Band 4	11_Uplink fre	quenc	y band						
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)		
				1	0	24.84	24.03	33	-8.97		
	39700	2501	QPSK	1	49	24.83	24.02	33	-8.98		
	37700	2001	UF JK	25	12	23.94	23.13	33	-9.87		
				50	0	23.91	23.1	33	-9.9		
				1	0	24.3	23.49	33	-9.51		
	40620	2593	QPSK	1	49	24.32	23.51	33	-9.49		
	40020	2373	QI JIK	25	12	23.37	22.56	33	-10.44		
				50	0	23.34	22.53	33	-10.47		
	41540	2685	QPSK	1	0	24.83	24.02	33	-8.98		
				1	49	24.98	24.17	33	-8.83		
				25	12	23.96	23.15	33	-9.85		
10				50	0	23.93	23.12	33	-9.88		
10				1	0	24	23.19	33	-9.81		
	39700	2501	16QAM	1	49	23.77	22.96	33	-10.04		
	37700	2001	1002/101	25	12	23	22.19	33	-10.81		
				50	0	22.98	22.17	33	-10.83		
				1	0	22.83	22.02	33	-10.98		
	40620	2593	16QAM	1	49	22.92	22.11	33	-10.89		
	70020	2075		25	12	22.43	21.62	33	-11.38		
				50	0	22.38	21.57	33	-11.43		
				1	0	23.88	23.07	33	-9.93		
	41540	2685	16QAM	1	49	23.22	22.41	33	-10.59		
	0+014	2005	16QAM	25	12	22.83	22.02	33	-10.98		
				50	0	22.98	22.17	33	-10.83		



Antenna	Antenna gain (dBi) -0.81 LTE Band 41_Uplink frequency band : 2496 to 2690 MHz										
		LTE Band 4	11_Uplink fre	quenc	y band						
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)		
				1	0	24.2	23.39	33	-9.61		
	39725	2503.5	QPSK	1	74	24.25	23.44	33	-9.56		
	37723	2000.0	UF JK	36	19	23.24	22.43	33	-10.57		
				75	0	23.25	22.44	33	-10.56		
				1	0	24.11	23.3	33	-9.7		
	40620	2593	QPSK	1	74	24.26	23.45	33	-9.55		
	40020	2373		36	19	23.26	22.45	33	-10.55		
				75	0	23.23	22.42	33	-10.58		
	41515	2682.5	QPSK	1	0	24.74	23.93	33	-9.07		
				1	74	25	24.19	33	-8.81		
				36	19	23.81	23	33	-10		
15				75	0	23.8	22.99	33	-10.01		
15				1	0	23.4	22.59	33	-10.41		
	39725	2503.5	16QAM	1	74	23.37	22.56	33	-10.44		
	57725	2000.0	1002/101	36	19	22.26	21.45	33	-11.55		
				75	0	22.28	21.47	33	-11.53		
				1	0	23.06	22.25	33	-10.75		
	40620	2503	16 0 0M	1	74	23.02	22.21	33	-10.79		
	40620 2593 16QAM		36	19	22.28	21.47	33	-11.53			
				75	0	22.23	21.42	33	-11.58		
				1	0	23.71	22.9	33	-10.1		
	41515	2682.5	16QAM	1	74	23.98	23.17	33	-9.83		
	1010	c.2002.5 16QA	16QAM	36	19	22.88	22.07	33	-10.93		
				75	0	22.81	22	33	-11		



Antenna	Antenna gain (dBi) -0.81 LTE Band 41_Uplink frequency band : 2496 to 2690 MHz										
		LTE Band 4	11_Uplink fre	quenc	y band						
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)		
				1	0	24.97	24.16	33	-8.84		
	39750	2506	QPSK	1	99	24.66	23.85	33	-9.15		
	37730	2000	UF JK	50	25	23.79	22.98	33	-10.02		
			100	100	0	23.84	23.03	33	-9.97		
				1	0	24.26	23.45	33	-9.55		
	40620	2593	QPSK	1	99	24.41	23.6	33	-9.4		
	40020	2373		50	25	23.27	22.46	33	-10.54		
				100	0	23.3	22.49	33	-10.51		
	41490	2680	QPSK	1	0	24.68	23.87	33	-9.13		
				1	99	24.77	23.96	33	-9.04		
	11770			50	25	23.78	22.97	33	-10.03		
20				100	0	23.83	23.02	33	-9.98		
20				1	0	23.77	22.96	33	-10.04		
	39750	2506	16QAM	1	99	23.35	22.54	33	-10.46		
	37730	2000	1002/101	50	25	22.8	21.99	33	-11.01		
				100	0	22.85	22.04	33	-10.96		
				1	0	23.2	22.39	33	-10.61		
	40620	2593	160AM	1	99	23.37	22.56	33	-10.44		
	40020	2373	93 16QAM	50	25	22.29	21.48	33	-11.52		
				100	0	22.3	21.49	33	-11.51		
				1	0	23.57	22.76	33	-10.24		
	41490	2680	160AM	1	99	23.81	23	33	-10		
	41490	2680	16QAM	50	25	22.86	22.05	33	-10.95		
				100	0	22.87	22.06	33	-10.94		

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Antenna	Antenna gain (dBi) 2.08 LTE Band 66_Uplink frequency band : 1710 to 1780 MHz											
		LTE Band 6	56_Uplink fre	quenc	y band	: 1710 to 178	BO 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	24.31	26.39	30	-3.61			
	131979	1710.7	QPSK	1	5	24.23	26.31	30	-3.69			
	1319/9	1710.7	UFJK	3	2	24.26	26.34	30	-3.66			
				6	0	23.29	25.37	30	-4.63			
				1	0	24.37	26.45	30	-3.55			
	132322	1745	QPSK	1	5	24.44	26.52	30	-3.48			
	TJZJZZ	1745		3	2	24.35	26.43	30	-3.57			
				6	0	23.48	25.56	30	-4.44			
	132665	1779.3	QPSK	1	0	24.39	26.47	30	-3.53			
				1	5	24.43	26.51	30	-3.49			
				3	2	24.38	26.46	30	-3.54			
1.4				6	0	23.41	25.49	30	-4.51			
				1	0	23.57	25.65	30	-4.35			
	131979	1710.7	16QAM	1	5	23.66	25.74	30	-4.26			
	101777	171017	10 21 111	3	2	23.48	25.56	30	-4.44			
				6	0	22.53	24.61	30	-5.39			
				1	0	23.83	25.91	30	-4.09			
	132322	1745	16QAM	1	5	23.72	25.8	30	-4.2			
	132322 1745 16QAN		3	2	23.57	25.65	30	-4.35				
				6	0	22.53	24.61	30	-5.39			
				1	0	23.99	26.07	30	-3.93			
	132665	1779.3	16QAM	1	5	23.76	25.84	30	-4.16			
	132003			3	2	23.64	25.72	30	-4.28			
				6	0	22.43	24.51	30	-5.49			



Antenna	gain (dBi)	2.08							
		LTE Band (56_Uplink fre	quenc	y band	: 1710 to 178	BO 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	24.28	26.36	30	-3.64
	131987	1711.5	QPSK	1	14	24.24	26.32	30	-3.68
	131707	1711.3	UF JK	8	4	23.43	25.51	30	-4.49
				15	0	23.36	25.44	30	-4.56
				1	0	24.31	26.39	30	-3.61
	132322	1745	QPSK	1	14	24.37	26.45	30	-3.55
	IJZJZZ	1745		8	4	23.5	25.58	30	-4.42
			15	0	23.42	25.5	30	-4.5	
	132657	1778.5	QPSK	1	0	24.27	26.35	30	-3.65
				1	14	24.36	26.44	30	-3.56
				8	4	23.42	25.5	30	-4.5
3				15	0	23.43	25.51	30	-4.49
5				1	0	23.8	25.88	30	-4.12
	131987	1711.5	16QAM	1	14	23.34	25.42	30	-4.58
	131707	1711.5	1002/101	8	4	22.65	24.73	30	-5.27
				15	0	22.4	24.48	30	-5.52
				1	0	23.55	25.63	30	-4.37
	132322	17/5	160AM	1	14	23.6	25.68	30	-4.32
	132322 1745 16QAM		8	4	22.63	24.71	30	-5.29	
				15	0	22.37	24.45	30	-5.55
				1	0	23.58	25.66	30	-4.34
	132657	1778.5	16QAM	1	14	23.86	25.94	30	-4.06
	132657 1778.5	16QAM	8	4	22.5	24.58	30	-5.42	
				15	0	22.45	24.53	30	-5.47

Antenna	Antenna gain (dBi) 2.08 LTE Band 66_Uplink frequency band : 1710 to 1780 MHz										
		LTE Band 6	56_Uplink fre	quenc	y band	: 1710 to 178	80 MHz				
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)		
				1	0	24.31	26.39	30	-3.61		
	131997	1712.5	QPSK	1	24	24.31	26.39	30	-3.61		
	131771	1712.3	UF JK	12	6	23.42	25.5	30	-4.5		
				25	0	23.44	25.52	30	-4.48		
				1	0	24.4	26.48	30	-3.52		
	132322	1745	QPSK	1	24	24.41	26.49	30	-3.51		
	132322	1745		12	6	23.59	25.67	30	-4.33		
				25	0	23.5	25.58	30	-4.42		
	132647	1777.5	QPSK	1	0	24.46	26.54	30	-3.46		
				1	24	24.34	26.42	30	-3.58		
				12	6	23.54	25.62	30	-4.38		
5				25	0	23.53	25.61	30	-4.39		
Ũ				1	0	23.63	25.71	30	-4.29		
	131997	1712.5	16QAM	1	24	23.22	25.3	30	-4.7		
	101777	1712.0	1002/111	12	6	22.5	24.58	30	-5.42		
				25	0	22.65	24.73	30	-5.27		
				1	0	23.61	25.69	30	-4.31		
	132322	1745	16QAM	1	24	23.74	25.82	30	-4.18		
	132322 1745 16QAM	100/101	12	6	22.58	24.66	30	-5.34			
				25	0	22.59	24.67	30	-5.33		
				1	0	23.96	26.04	30	-3.96		
	132647	1777 5	16QAM	1	24	24	26.08	30	-3.92		
	102077	1777.5		12	6	22.73	24.81	30	-5.19		
				25	0	22.68	24.76	30	-5.24		

Antenna	Antenna gain (dBi) 2.08 LTE Band 66_Uplink frequency band : 1710 to 1780 MHz										
		LTE Band 6	56_Uplink fre	quenc	y band	: 1710 to 178	80 MHz				
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)		
				1	0	24.31	26.39	30	-3.61		
	132022	1715	QPSK	1	49	24.57	26.65	30	-3.35		
	132022	1715	QI JIK	25	12	23.37	25.45	30	-4.55		
				50	0	23.31	25.39	30	-4.61		
				1	0	24.58	26.66	30	-3.34		
	132322	1745	QPSK	1	49	24.44	26.52	30	-3.48		
	102022	1715	QUOK	25	12	23.4	25.48	30	-4.52		
				50	0	23.41	25.49	30	-4.51		
	132622	1775	QPSK	1	0	24.66	26.74	30	-3.26		
				1	49	24.47	26.55	30	-3.45		
				25	12	23.54	25.62	30	-4.38		
10				50	0	23.51	25.59	30	-4.41		
10				1	0	23.68	25.76	30	-4.24		
	132022	1715	16QAM	1	49	23.74	25.82	30	-4.18		
	102022	1710	100/101	25	12	22.46	24.54	30	-5.46		
				50	0	22.44	24.52	30	-5.48		
				1	0	23.65	25.73	30	-4.27		
	132322	1745	16QAM	1	49	23.63	25.71	30	-4.29		
	132322	1715	1002/101	25	12	22.59	24.67	30	-5.33		
				50	0	22.48	24.56	30	-5.44		
				1	0	23.83	25.91	30	-4.09		
	132622	1775	160AM	1	49	23.89	25.97	30	-4.03		
	132622		16QAM	25	12	22.62	24.7	30	-5.3		
				50	0	22.47	24.55	30	-5.45		

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Antenna	Antenna gain (dBi) 2.08 LTE Band 66_Uplink frequency band : 1710 to 1780 MHz											
		LTE Band 6	66_Uplink fre	quenc	y band	: 1710 to 178	80 MHz					
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)			
				1	0	24.33	26.41	30	-3.59			
	132047	1717.5	QPSK	1	74	24.55	26.63	30	-3.37			
	132047	C.111	UPSK	36	19	23.29	25.37	30	-4.63			
				75	0	23.37	25.45	30	-4.55			
				1	0	24.37	26.45	30	-3.55			
	132322	1745	QPSK	1	74	24.35	26.43	30	-3.57			
	132322	1745	UF JK	36	19	23.41	25.49	30	-4.51			
				75	0	23.42	25.5	30	-4.5			
	132597	1772.5	QPSK	1	0	24.46	26.54	30	-3.46			
				1	74	24.34	26.42	30	-3.58			
				36	19	23.52	25.6	30	-4.4			
15				75	0	23.55	25.63	30	-4.37			
10				1	0	23.9	25.98	30	-4.02			
	132047	1717.5	16QAM	1	74	23.18	25.26	30	-4.74			
	102017	1717.5	100/101	36	19	22.36	24.44	30	-5.56			
				75	0	22.37	24.45	30	-5.55			
				1	0	23.93	26.01	30	-3.99			
	132322	1745	16QAM	1	74	23.46	25.54	30	-4.46			
	TOLOLL	17 10	10 21 111	36	19	22.48	24.56	30	-5.44			
				75	0	22.46	24.54	30	-5.46			
				1	0	23.53	25.61	30	-4.39			
	132597	1772.5	16QAM	1	74	23.48	25.56	30	-4.44			
		1772.5	16QAM	36	19	22.51	24.59	30	-5.41			
				75	0	22.55	24.63	30	-5.37			



Antenna	gain (dBi)	2.08							
		LTE Band 6	66_Uplink fre	quenc	y band	: 1710 to 178	80 MHz		
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
				1	0	24.34	26.42	30	-3.58
	132072	1720	QPSK	1	99	24.38	26.46	30	-3.54
	132072	1720	UF JK	50	25	23.28	25.36	30	-4.64
				100	0	23.32	25.4	30	-4.6
				1	0	24.33	26.41	30	-3.59
	132322	1745	QPSK	1	99	24.24	26.32	30	-3.68
	IJZJZZ	1745	QI JIX	50	25	23.4	25.48	30	-4.52
			100	0	23.44	25.52	30	-4.48	
	132572	1770	QPSK	1	0	24.58	26.66	30	-3.34
				1	99	24.56	26.64	30	-3.36
	132372	1770		50	25	23.56	25.64	30	-4.36
20				100	0	23.56	25.64	30	-4.36
20				1	0	23.58	25.66	30	-4.34
	132072	1720	16QAM	1	99	23.76	25.84	30	-4.16
	102072	1720	100/101	50	25	22.35	24.43	30	-5.57
				100	0	22.34	24.42	30	-5.58
				1	0	23.98	26.06	30	-3.94
	132322	1745	16OAM	1	99	23.74	25.82	30	-4.18
	102022	132322 1745 16QAM	1002/101	50	25	22.38	24.46	30	-5.54
				100	0	22.45	24.53	30	-5.47
				1	0	23.9	25.98	30	-4.02
	132572	1770	16QAM	1	99	23.75	25.83	30	-4.17
	102072	152572 1770		50	25	22.56	24.64	30	-5.36
				100	0	22.66	24.74	30	-5.26

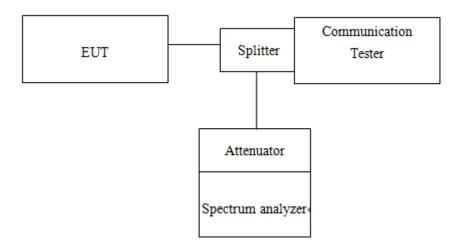


7. OCCUPIED BANDWIDTH MEASUREMENT

7.1. Standard Applicable

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

7.2. Test Set-up



7.3. Measurement Procedure

99% &26dB Bandwidth with detector peak

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

99% Bandwidth with detector sample

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

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7.4. Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19
Radio Communica- tion Analyzer	Anritsu	MT8820C	6201107337	2018/06/15	2019/06/14
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
Splitter	Woken	DOM35LW1A2	RF36	2017/12/26	2018/12/25
DC Block	PASTERNACK	PE8210	RF29	2017/12/26	2018/12/25
Coaxial Cables	Woken	00100A1F1A185C	RF229	2017/12/26	2018/12/25
Coaxial Cables	Woken	00100A1F1A185C	RF230	2017/12/26	2018/12/25
Coaxial Cables	Woken	00100A1F1A185C	RF231	2017/12/26	2018/12/25
Temperature Chamber	TERCHY	MHK-120LK	1020582	2018/01/13	2019/01/02

7.5. Measurement Result

ſ	Freq. (MHz)	СН	99 %	% BW (MH	z)	26 dB BW (MHz)				
			WCDMA	HSDPA	HSUPA	WCDMA	HSDPA	HSUPA		
	(11112)		=	I	II	I	II	II		
I	1852.40	9262	4.24670	4.24380	4.25110	6.00000	6.00000	5.99560		
ĺ	1880.00	9400	4.06640	4.06640	4.07400	4.62220	4.63140	4.61550		
	1907.60	9538	4.17920	4.16750	4.16730	5.46680	5.44310	5.47500		

Freq.		999	99% BW (MHz)			26 dB BW (MHz)		
(MHz)	СН	WCDMA	HSDPA	HSUPA	WCDMA	HSDPA	HSUPA	
		IV	IV	IV	IV	IV	IV	
1712.40	1312	4.07450	4.07020	4.07230	4.64400	4.64800	4.64900	
1732.60	1413	4.07350	4.07740	4.07690	4.62400	4.63200	4.64400	
1752.60	1513	4.06830	4.06780	4.06090	4.63800	4.63300	4.61300	

Freq.		99% BW (MHz)			26 dB BW (MHz)		
(MHz)	СН	WCDMA	HSDPA	HSUPA	WCDMA	HSDPA	HSUPA
(11112)		V	V	V	V	V	V
826.40	4132	4.08940	4.08160	4.08240	4.68070	4.69470	4.68570
836.60	4183	4.07810	4.07900	4.07120	4.64090	4.65350	4.64140
846.60	4233	4.10290	4.10880	4.11280	4.71450	4.72250	4.71550

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26 dB BW (MHz)

16QAM

11.388

20.430

19.891

QPSK

10.558

20.069

20.354



1							
	LTE BAND 2 Channel bandwidth: 1.4MHz						
	Freq. (MHz)	СН	99% B\	N (MHz)	26 dB B	W (MHz)	
	(MHz)	CII	QPSK	16QAM	QPSK	16QAM	
	1850.7	18607	1.1365	1.8844	1.9261	2.9306	
	1880.0	18900	1.1131	1.1155	1.3794	1.3015	
	1909.3	19193	1.7617	1.8230	2.8570	2.9397	

LTE BAND 2 Channel bandwidth: 3MHz							
Freq.	СН	99% BV	V (MHz)	26 dB B	W (MHz)		
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM		
1851.5	18615	2.8117	2.7605	5.4240	5.2259		
1880.0	18900	2.7248	2.7359	3.1884	3.3582		
1908.5	19185	3.5709	3.7166	5.9769	5.9631		

LTE BAND 2 Channel bandwidth: 10MHz 99% BW (MHz)

16QAM

9.1082

18.079

17.999

OPSK

9.0861

18.030

18.072

Freq.

(MHz)

1855.0

1880.0

1900.0

СН

18650

18900

19100

LTE BAND 2 Channel bandwidth: 5MHz						
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)	
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM	
1852.5	18625	4.5282	4.5403	5.0216	6.3965	
1880.0	18900	4.5404	4.5141	5.0506	4.9413	
1907.5	19175	4.9901	4.5561	9.6607	8.0725	

LTE BAND 2 Channel bandwidth: 15MHz							
Freq.	СН	99% BW (MHz)		26 dB BW (MHz)			
(MHz)		QPSK	16QAM	QPSK	16QAM		
1857.5	18675	13.571	13.581	16.471	16.406		
1880.0	18900	13.571	13.570	15.849	15.467		
1902.5	19125	13.655	13.558	19.334	15.897		

LTE BAND 4 Channel bandwidth: 1.4MHz							
Freq. (MHz)	СН	99% B\	N (MHz)	26 dB B	W (MHz)		
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM		
1710.7	19957	1.1101	1.1067	1.2620	1.2678		
1732.5	20175	1.1075	1.1064	1.2640	1.2668		
1754.3	20393	1.1156	1.1103	1.2663	1.2624		

LTE BAND 4 Channel bandwidth: 5MHz							
Freq.	СН			99% BW (MHz)		26 dB BW (MHz)	
(MHz)		QPSK	16QAM	QPSK	16QAM		
1712.5	19957	4.5306	4.5124	5.0010	4.9485		
1732.5	20175	4.5396	4.5208	5.0459	5.1516		
1752.5	20375	4.5244	4.5176	5.0390	4.9650		

LTE BAND 4 Channel bandwidth: 15MHz						
Freq.	СН			N (MHz)	26 dB BW (MHz)	
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM	
1717.5	20025	13.530	13.546	15.811	15.637	
1732.5	20175	13.574	13.543	15.914	15.996	
1747.5	20325	13.633	13.563	16.058	15.794	

1880.0	18900	9.0842	9.0912	10.482	10.529		
1905.0	19150	9.2130	9.0806	13.781	12.025		
	LTE BAND 2 Channel bandwidth: 20MHz						
Freq. (MHz)	СН	99% BV	V (MHz)	26 dB B	W (MHz)		
(MHz)	CH	QPSK	16QAM	QPSK	16QAM		
1860.0	18700	18.008	18.003	20.535	20.111		

LTE BAND 4 Channel bandwidth: 3MHz							
Freq.	СН	99% BW (MHz)		26 dB BW (MHz)			
(MHz)	СП	QPSK	16QAM	QPSK	16QAM		
1711.5	19965	2.7233	2.7308	3.0346	3.0326		
1732.5	20175	2.7233	2.7219	3.0184	3.0240		
1753.5	20385	2.7216	2.7205	3.0068	3.0197		

LTE BAND 4 Channel bandwidth: 10MHz						
Freq. (MHz)	СН	99% B\	N (MHz)	26 dB B	W (MHz)	
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM	
1715.0	20000	9.0680	9.0765	10.591	10.514	
1732.5	20175	9.0934	9.0903	10.528	10.535	
1750.0	20350	9.0698	9.0898	10.481	10.464	

L	LTE BAND 4 Channel bandwidth: 20MHz								
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)				
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM				
1720.0	20050	17.969	17.949	20.163	20.183				
1732.5	20175	18.012	18.027	20.215	19.909				
1745.0	20300	18.079	18.079	20.113	20.122				

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LTE BAND 5 Channel bandwidth: 1.4MHz								
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)			
(MHz)		QPSK	16QAM	QPSK	16QAM			
824.7	20407	1.1137	1.1137	1.2631	1.3584			
836.5	20525	1.1075	1.1148	1.2569	1.2664			
848.3	20643	1.1139	1.1236	1.2697	1.5994			

Freq.	СН	99% BV	V (MHz)	26 dB B	W (MHz)		
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM		
825.5	20415	2.7156	2.7239	3.0281	3.0177		
836.5	20525	2.7301	2.7307	2.9981	3.0292		
847.5	20635	2.7286	2.7334	3.0298	3.8196		

LTE BAND 5 Channel bandwidth: 3MHz

LTE BAND 5 Channel bandwidth: 5MHz								
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)			
(MHz)		QPSK	16QAM	QPSK	16QAM			
826.5	20425	4.5370	4.5280	5.0001	5.2214			
836.5	20525	4.5263	4.5307	4.9812	4.9965			
846.5	20625	4.5523	4.5495	5.0495	6.4099			

LTE BAND 5 Channel bandwidth: 10MHz								
Freq.	СН	99% BV	V (MHz)	26 dB B	W (MHz)			
(MHz)		QPSK	16QAM	QPSK	16QAM			
829.0	20450	9.0975	9.1031	10.542	10.525			
836.5	20525	9.0803	9.1132	10.477	10.644			
844.0	20600	9.1100	9.1727	10.612	11.859			

LTE BAND 12 Channel bandwidth: 1.4MHz									
Freq.	СН		N (MHz)						
(MHz)		QPSK	16QAM	QPSK	16QAM				
699.7	23017	1.1119	1.1101	1.2735	1.3475				
707.5	23095	1.1065	1.1064	1.2584	1.2586				
715.3	23173	1.1182	1.1169	1.2781	1.3488				

LTE BAND 12 Channel bandwidth: 5MHz								
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)			
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM			
701.5	23035	4.5498	4.5218	5.3997	4.9789			
707.5	23095	4.5343	4.5204	4.9918	4.9632			
713.5	23155	4.5396	4.5261	5.3739	5.3726			

L	LTE BAND 13 Channel bandwidth: 5MHz								
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)				
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM				
779.5	23205	4.5531	4.5476	5.2562	6.1575				
782.0	23230	4.5182	4.5284	5.0535	6.4475				
784.5	23255	4.5285	4.5220	5.2490	5.1857				

LTE BAND 12 Channel bandwidth: 3MHz								
Freq.	СН	99% BV	V (MHz)	26 dB B	W (MHz)			
(MHz)		QPSK	16QAM	QPSK	16QAM			
700.5	23025	2.7236	2.7314	3.0347	3.0676			
707.5	23095	2.7427	2.7266	3.0228	3.0232			
714.5	23165	2.7393	2.7341	3.4924	3.1050			

LTE BAND 12 Channel bandwidth: 10MHz								
Freq.	СН	99% BV	V (MHz)	26 dB B	W (MHz)			
(MHz)		QPSK	16QAM	QPSK	16QAM			
704.0	23060	9.0976	9.0877	10.510	10.605			
707.5	23095	9.1554	9.1012	10.866	10.670			
711.0	23130	9.0663	9.0776	10.628	10.539			

LTE BAND 13 Channel bandwidth: 10MHz							
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)		
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM		
782.0	23230	8.988	9.030	10.281	10.336		



LTE BAND 14 Channel bandwidth: 5MHz								
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)			
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM			
790.5	23305	4.5544	4.5531	5.9522	7.6535			
793.0	23330	4.5412	4.5654	5.8707	7.5518			
795.5	23355	4.5642	4.5798	6.6245	9.2107			

LTE BAND 14 Channel bandwidth: 10MHz						
Freq.	СН	99% B\	N (MHz)	26 dB BW (MHz)		
(MHz)	СП	QPSK	16QAM	QPSK	16QAM	
793.0	23330					

LTE BAND 17 Channel bandwidth: 5MHz							
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)		
(MHz)	СП	QPSK	16QAM	QPSK	16QAM		
706.5	23755	4.5398	4.5245	4.9847	4.9496		
710.0	23790	4.5311	4.5374	4.9928	4.9677		
713.5	23825	4.5330	4.5236	5.1095	5.9587		

LTE BAND 17 Channel bandwidth: 10MHz							
Freq.	СН	99% BW (MHz)		26 dB B	26 dB BW (MHz)		
(MHz)	СП	QPSK	16QAM	QPSK	16QAM		
709.0	23780	9.0895	9.1012	10.534	10.540		
710.0	23790	9.0638	9.0642	10.489	10.621		
711.0	23800	9.0439	9.0460	10.459	10.558		

LT	E BAND	25 Chan	nel bandw	idth: 1.4N	ЛНz	L	TE BAN	D 25 Char	nnel bandw	vidth: 3MI	Ηz
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)	Freq.	СН	99% BV	V (MHz)	26 dB B	W (MHz)
(MHz)	СП	QPSK	16QAM	QPSK	16QAM	(MHz)	СП	QPSK	16QAM	QPSK	16QAM
1850.7	26047	1.1267	1.1281	1.900	1.685	1851.5	26055	2.7394	2.7337	3.084	3.842
1882.5	26365	1.1230	1.1152	1.663	1.364	1882.5	26365	2.7331	2.7240	3.263	3.412
1914.3	26683	1.4851	1.1353	2.809	2.190	1913.5	26675	2.7634	2.7627	4.753	4.906
LTE BAND 25 Channel bandwidth: 5MHz			Ľ	te bani	D 25 Chan	nel bandw	idth: 10M	Hz			
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)	Freq.	СН	99% BV	V (MHz)	26 dB B	W (MHz)
(MHz)	CII	QPSK	16QAM	QPSK	16QAM	(MHz)	CIT	QPSK	16QAM	QPSK	16QAM
1852.5	26065	4.5579	4.5396	6.425	6.540	1855.0	26090	9.0880	9.1600	10.590	13.880
1882.5	26365	4.5227	4.5521	5.054	7.167	1882.5	26365	9.0827	9.1578	11.460	13.860
1912.5	26665	4.6234	4.5591	9.331	8.626	1910.0	26640	9.0576	9.1535	10.560	15.600
LT	TE BAND) 25 Char	nel bandw	idth: 15N	1Hz	Ľ	te bani	D 25 Chan	nel bandw	idth: 20M	Hz
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)	Freq.	СН	99% BV	V (MHz)	26 dB B	W (MHz)
(MHz)	СП	QPSK	16QAM	QPSK	16QAM	(MHz)	СП	QPSK	16QAM	QPSK	16QAM
1857.5	26115	13.722	13.724	27.07	25.19	1860.0	26140	18.1130	18.1580	25.350	32.780
1882.5	26365	13.721	13.703	21.05	21.83	1882.5	26365	18.1570	18.0860	28.660	26.370
1907.5	26615	14.141	13.665	25.63	22.78	1905.0	26590	18.2130	18.1280	30.270	29.200



LTE BAND 26 Channel bandwidth: 1.4MHz							
Freq.	СН	99% BW (MHz)		26 dB B	6 dB BW (MHz)		
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM		
824.7	26797	1.1051	1.1131	1.2581	1.3334		
836.5	26915	1.1056	1.1159	1.2547	1.2655		
848.3	27033	1.1132	1.1166	1.2687	1.5153		

LTE BAND 26 Channel bandwidth: 5MHz						
Freq.	СН	99% B\	N (MHz)	26 dB B	· /	
(MHz)	СП	QPSK	16QAM	QPSK	16QAM	
826.5	26815	4.5508	4.5226	4.9490	5.0358	
836.5	26915	4.5388	4.5190	4.9955	4.9604	
846.5	27015	4.5374	4.5381	5.2841	5.6515	

LTE BAND 26 Channel bandwidth: 3MHz						
Freq.	СН	99% BW (MHz)		26 dB BW (MHz)		
(MHz)	CH	QPSK	16QAM	QPSK	16QAM	
825.5	26805	2.7331	2.7326	3.0172	3.0118	
836.5	26915	2.7159	2.7309	3.0085	3.0211	
847.5	27025	2.7257	2.7444	3.2166	3.4594	

LTE BAND 26 Channel bandwidth: 10MHz							
Freq.	СН	99% BW (MHz)		26 dB B	、 <i>,</i>		
(MHz)	СП	QPSK	16QAM	QPSK	16QAM		
829.0	26840	9.0745	9.0877	10.463	10.743		
836.5	26915	9.0804	9.0738	10.472	10.518		
844.0	26990	9.1018	9.1239	10.552	11.252		

LTE BAND 26 Channel bandwidth: 15MHz							
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)		
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM		
831.5	26865	13.610	13.610	15.962	15.845		
836.5	26915	13.524	13.534	15.562	15.612		
841.5	26965	13.554	13.556	15.722	15.842		

LTE BAND 26 for part 90S Channel bandwidth: 1.4MHz							
Freq.	СН	99% BW (MHz)		26 dB B	3W (MHz)		
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM		
814.7	26697	1.1112	1.1096	1.2604	1.2687		
819.0	26740	1.1058	1.1165	1.2593	1.2810		
823.3	26783	1.1115	1.1155	1.2633	1.3405		

LTE BAND 26 for part 90S Channel bandwidth: 5MHz							
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)		
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM		
816.5	26715	4.5358	4.5336	4.9684	5.0211		
819.0	26740	4.5329	4.5243	4.9343	4.9787		
821.5	26765	4.5442	4.5102	5.1730	4.9507		

LTE BAND 30 Channel bandwidth: 5MHz							
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)		
(MHz)	СП	QPSK	16QAM	QPSK	16QAM		
2307.5	27685	4.5984	4.5906	8.4502	9.2925		
2310.0	27710	4.5779	4.5711	8.8502	8.0801		
2312.5	27735	4.5818	4.5643	9.0593	8.4306		

LTE BAND 26 for part 90S Channel bandwidth: 3MHz								
Freq.	СН	99% BV		26 dB BW (MHz)				
(MHz)	CII	QPSK	16QAM	QPSK	16QAM			
815.5	26705	2.7326	2.7232	3.0344	3.0312			
819.0	26740	2.7276	2.7398	3.0231	3.0375			
822.5	26775	2.7238	2.7265	3.0178	3.0338			

LTE BAND 26 for part 90S Channel bandwidth: 10MHz							
Freq.	СН	99% BW (MHz)		26 dB BW (MHz)			
(MHz)	СП	QPSK	16QAM	QPSK	16QAM		
819.0	26740	9.0663	9.1054	10.425	10.590		

LTE BAND 30 Channel bandwidth: 10MHz						
Freq.	СН	99% BW (MHz) 26 dB BW (MHz)				
(MHz)	СП	QPSK	16QAM	16QAM	QPSK	

9.3297

19.0465

19.3276

9.3926

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LTE BAND 38 Channel bandwidth: 5MHz								
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)			
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM			
2572.5	37775	4.5392	4.5233	5.4477	4.9363			
2595.0	38000	4.5334	4.5145	5.1339	5.0733			
2617.5	38225	4.5282	4.5198	5.4166	5.9481			

L	LTE BAND 38 Channel bandwidth: 10MHz								
Freq. (MHz)	СН	99% B\	N (MHz)	26 dB B	W (MHz)				
(MHz)	СП	QPSK	16QAM	QPSK	16QAM				
2575.0	37800	9.0652	9.0474	10.412	10.336				
2595.0	38000	9.0614	9.0843	10.426	10.698				
2615.0	38200	9.0893	9.0524	10.444	10.503				

LTE BAND 38 Channel bandwidth: 15MHz								
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)			
(MHz)	СП	QPSK	16QAM	QPSK	16QAM			
2577.5	37825	13.548	13.526	15.630	15.582			
2595.0	38000	13.563	13.576	16.367	17.362			
2612.5	38175	13.558	13.570	15.868	15.605			

LTE BAND 38 Channel bandwidth: 20MHz								
Freq. (MHz)	СН	99% B\	N (MHz)	26 dB B	W (MHz)			
(MHz)	СП	QPSK	16QAM	QPSK	16QAM			
2580.0	37850	18.008	18.033	20.215	20.381			
2595.0	38000	18.037	18.058	19.850	20.456			
2610.0	38150	18.022	18.023	20.417	20.149			

LTE BAND 41 Channel bandwidth: 5MHz								
Freq.	СН	99% B\	N (MHz)	26 dB B	W (MHz)			
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM			
2498.5	39675	4.5109	4.5247	5.3862	5.0259			
2593.0	40620	4.5528	4.5509	5.1612	7.5088			
2687.5	41565	4.5363	4.5107	5.1258	5.0882			

LTE BAND 41 Channel bandwidth: 10MHz							
Freq.	СН	99% BV	V (MHz)	26 dB B	W (MHz)		
(MHz)	CIT	QPSK	16QAM	QPSK	16QAM		
2501.0	39700	9.0453	9.0267	10.397	10.523		
2593.0	40620	9.0659	9.0999	10.521	13.214		
2685.0	41540	9.0390	9.0465	10.530	10.789		

LTE BAND 41 Channel bandwidth: 15MHz								
Freq.			26 dB BW (MHz)					
(MHz)	СП	QPSK	16QAM	QPSK	16QAM			
2503.5	39725	13.534	13.586	16.028	15.623			
2593.0	40620	13.562	13.597	15.980	18.750			
2682.5	41515	13.586	13.541	15.907	15.303			

LTE BAND 41 Channel bandwidth: 20MHz								
Freq.	СН	99% BV	V (MHz)	26 dB B	W (MHz)			
(MHz)	СП	QPSK	16QAM	QPSK	16QAM			
2506.0	39750	17.998	18.101	20.068	23.072			
2593.0	40620	18.004	18.420	20.630	38.039			
2680.0	41490	18.003	18.054	20.060	21.060			



LTE BAND 66 Channel bandwidth: 1.4MHz								
Freq.	Freq. CH 99% BW (MHz)		26 dB BW (MHz)					
(MHz)	СП	QPSK	16QAM	QPSK	16QAM			
1710.7	131979	1.1093	1.1137	1.2560	1.2627			
1745.0	132322	1.1085	1.1141	1.2586	1.2728			
1779.3	132665	1.1059	1.1119	1.2547	1.2638			

	LTE BAI	ND 66 Cha	nnel band	width: 3MH	Z	
Freq.	СН	99% BV	V (MHz)	26 dB BW (MHz)		
(MHz)	СП	QPSK	16QAM	QPSK	16QAM	
1711.5	131987	2.7203	2.7189	2.9999	3.0297	
1745.0	132322	2.7338	2.7224	3.0069	3.0141	
1778.5	132657	2.7167	2.7272	3.0047	3.0277	

	LTE BAND 66 Channel bandwidth: 5MHz									
Freq.	СН	99% B	W (MHz)	26 dB BW (MHz)						
(MHz)	(MHz)		16QAM	QPSK	16QAM					
1712.5	131997	4.5108	4.5221	4.9493	4.9974					
1745.0	132322	4.5406	4.5345	5.0069	5.1572					
1777.5	132647	4.5234	4.5234	4.9924	5.0114					

	LTE BAN	ID 66 Char	nnel bandv	vidth: 10MF	łz	
Freq.	СН	99% BV	V (MHz)	26 dB BW (MHz)		
(MHz)	СП	QPSK	16QAM	QPSK	16QAM	
1715.0	132022	9.0672	9.0768	10.4561	10.4869	
1745.0	132322	9.0808	9.1099	10.6562	10.5111	
1775.0	132622	9.0947	9.1289	10.5175	10.5926	

	LTE BAND 66 Channel bandwidth: 15MHz										
Freq.	СН	99% B	W (MHz)	26 dB BW (MHz)							
(MHz)	CII	QPSK 16QAM		QPSK	16QAM						
1717.5	132047	13.5310	13.5370	15.3870	15.6760						
1745.0	132322	13.6160	13.5660	15.8570	15.8510						
1772.5	132597	13.5660	13.5440	15.7670	15.5010						

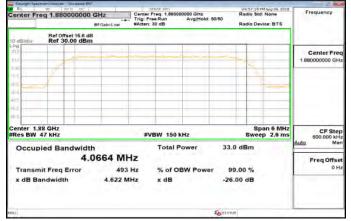
	LTE BAN	ID 66 Char	nnel bandw	/idth: 20MF	lz	
Freq. (MHz)	Freq. CH	99% BV	V (MHz)	26 dB BW (MHz)		
(MHz)	СП	QPSK	16QAM	QPSK	16QAM	
1720.0	132072	17.9960	17.9690	20.0160	19.8240	
1745.0	132322	18.0710	18.1080	24.3470	20.4240	
1770.0	132572	18.0030	17.9970	20.1000	20.0080	



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WCDMA_B2_LowCH9262-1852.4

Center Fre	nter Freq 1,852400000 GHz			Center Freq: 1.852400000 GHz Trig: Free Run AvgiHold: 50/50 #Atten: 30 dB			Radio Std: None Radio Device: BTS		Frequency
10 dB/div	Ref Offset 15.6 Ref 30.00 de						5		
100. 100		~~~~							Center Fred 1 852400000 GHz
NDL		-				_			
200 30 û. 40 0									
40.0 ED C		_		_					
Center 1.8 Res BW 4		-		VBW 150	kHz	-		Span 6 MHz veep 2.6 ms	CF Step
Occup	ed Bandwid	uth 1.2467 M	/Hz	Total	Power	28	.2 dBm	2.00	Auto Mar
	Transmit Freq Error 16.818 x dB Bandwidth 6.000		8 kHz	KHz % of OBW Power			99.00 % 6.00 dE	S	0 Hi
						Conte			



WCDMA_B2_MidCH9400-1880

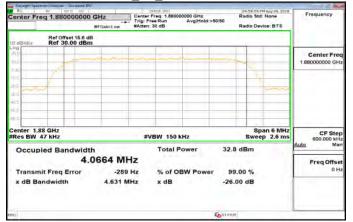
WCDMA_B2_HighCH9538-1907.6

Averant Seath	NT STO DC	84/		ana avr			100.07.80	PM Apg 09, 2010	32.0
	eq 1.90760000	ID GHz	Center	Freq: 1,90760	Avg Hold: 5	0/50	Radio Std: None Radio Device: BTS		Frequency
Ref Officet 15.6 dB 10 dB/div Ref 30.00 dBm									
10,0 10,0				-					Center Free 1.907600000 GH
10.000 x0.0	- Carlor								
-0 0. -0 1									
40.0 60.0		_		-					
Center 1.9 Res BW 4			#1	/BW 150 P	kHz			pan 6 MHz ep 2.6 ms	CF Step 600.000 kHz Auto Man
Occup	led Bandwid			Total P	ower	26	.5 dBm		
		.1792 MI							Freq Offset
	Transmit Freq Error -77.690				BW Power		9.00 %		0 H
x dB Ba	indwidth	5.467 N	IHz	x dB		-26	5.00 dB		
80						Conten	us		-

HSDPA_B2_LowCH9262-1852.4

Center Fre	eq 1.852400000	Trig	Center Free Run AvgiHold: 50/50 #Atten: 30 dB			Std: None Device: BTS	Frequency
10 dB/div	Ref Offset 15.6 dB Ref 30.00 dBm						
200					-		Center Free 1.852400000 GHz
1000		_	-				
-20.0			-				
40.0							
Center 1.8		1	#VBW 150 k	Hz		Span 6 MHz Jeep 2.6 ms	CF Step
Occup	led Bandwidt		Total P	ower	28.1 dBm		Auto Mar
Trancos		2438 MHz 14.015 kHz	% of OF	W Power	99.00 %		Freq Offset
	indwidth	6.000 MHz	x dB	W FOWER	-26.00 dB		
-					TATUS		

HSDPA_B2_MidCH9400-1880



HSDPA_B2_HighCH9538-1907.6

Eventit Seath	NP STORES		since and		05:05:15 PM /	Lorenza anna 1	22
Center Fre	q 1.90760000		Center Freq: 1,907 Trig: Free Run #Atten: 30 dB	600000 GHE AvgiHold: 50/50	Radio Std: M	lone	Frequency
10 dB/div	Ref Offset 15.6 c Ref 30.00 dB						
391,0 10,0							Center Free 1.907600000 GH
1000 1010	-	_			-		
2010 30 G. 40 D							
10.0 60.0						_	
Center 1.9 Res BW 4			#VBW 150	kHz	Spar Sweep	n 6 MHz 2.6 ms	CF Step 600.000 kH
Occup	ed Bandwid			Power	26.5 dBm		Auto Mar
		1675 MH					Freq Offse
		-83.808 kł 5.443 Mł		BW Power	99.00 % -26.00 dB		OH
ia l				6	WATUS		

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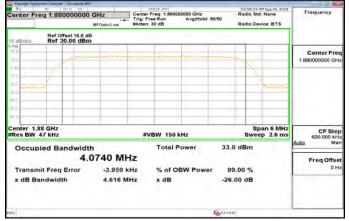
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HSUPA_B2_LowCH9262-1852.4

Center Fre	eq 1.852400000	Trig	Center Freq: 1,852400000 GHz Trig: Free Run AvgiHold: 50/50 #Atten: 30 dB			ag 09, 2018 Ione : BTS	Frequency
10 dB/div	Ref Offset 15.6 d Ref 30.00 dBn						
310 100					-		Center Freq 1.852400000 GHz
20.0					-		
30 G. 40 D							
HD () ED (C)							
Res BW			WBW 150 k	Hz	Spar Sweep		CF Ster
Occup	led Bandwidt 4.	^h 2511 MHz	Total P	ower	28.0 dBm	6	Freq Offset
	Transmit Freq Error 13.3 x dB Bandwidth 5.9		% of Of x dB	3W Power	99.00 % -26.00 dB		0 H2
				(h)	TATUS		



HSUPA_B2_MidCH9400-1880

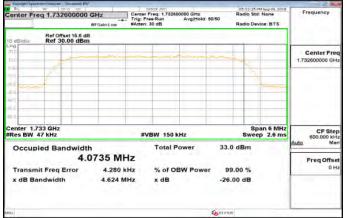
HSUPA_B2_HighCH9538-1907.6

Averaght Spect	NT STO DC			and and			les de la l	PM Apg 09, 2018	32.0
	eq 1.90760000		Center Freq: 1.907600000 GHz Trig: Free Run AvgiHold: 50/50 #Atten: 30 dB			Radio Std: None Radio Device: BTS		Frequency	
10 dB/div	Ref Offset 15.6 Ref 30.00 de								
10.0 10.0									Center Free 1.907600000 GH
N00								-	
30 G. 40 G									
40.0 60.0									
Center 1.9 Res BW 4			#V	BW 150 k	Hz			oan 6 MHz ep 2.6 ms	CF Step 600.000 kHz
Occup	ied Bandwid	th .1673 MH	Ηz				5 dBm		Auto Man Freq Offset
	Transmit Freq Error -75.418 k x dB Bandwidth 5.475 Mi		Hz				9.00 % .00 dB		OR
ma						Contrate.	5		

WCDMA B4 LowCH1312-1712.4

Center Fr	eg 1.712400000	Trig:	danda 301 r Freq: 1,712400000 GHz Free Run AvgiHold: 5 n: 30 dB	50/50 Radio Device: BTS	Frequency
10 dB/div	Ref Offset 15.6 dB Ref 30.00 dBm				
30,0 10,0 0,00	1-				Center Free 1,712400000 GH
20.0	1				-
-0.0E					_
40.0 40.0					
Center 1.3 #Res BW			VBW 150 kHz	Span 6 M Sweep 2.6 r	600.000 kH
Occup	ied Bandwidth 4.(0745 MHz	Total Power	33.1 dBm	Auto Mar
	nit Freq Error andwidth	4.270 kHz 4.644 MHz	% of OBW Power x dB	99.00 % -26.00 dB	0H
60					-

WCDMA_B4_MidCH1413-1732.6



WCDMA_B4_HighCH1513-1752.6

RL I	WF 2010 DC		SUNSI UNI			M Aug 09, 2018	Frequency
Center Fre	9 1.752600000	- Trig:	er Freq: 1,752600000 GHz Free Run AvgiHo m: 30 dB	d: 50/50	Radio Std		requercy
10 dB/div	Ref Offset 15.6 dB Ref 30.00 dBm						
30,0 10,0 10,0 10,0 10,0 20,0 40,0 40,0							Center Freq 1.752600000 GHz
Center 1.7					Sp	an 6 MHz	CF Step
Occup	ied Bandwidt		Total Power	33	Swee	p 2.6 ms	600.000 kHz Auto Mar
	4.1 it Freq Error ndwidth	0683 MHz 1.197 kHz 4.638 MHz	% of OBW Pov x dB		99.00 % 6.00 dB		Freq Offset 0 Hz
mo l				Contra-	11/5		-

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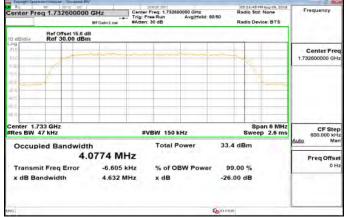
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HSDPA B4 LowCH1312-1712.4

Center Fre	aq 1.712400000	Trig	er Freq: 1,712400000 GHz Free Run AvgiHolo m: 30 dB	d: 50/50	Radio Device: BTS	Frequency
10 dB/div	Ref Offset 15.6 d Ref 30.00 dBi					
200 200 200 200 200 200 200 200	1					Center Freq 1.712400000 GHz
Center 1.7					Span 6 Mi	
Occup	ed Bandwid		Total Power	33	Sweep 2.6 m	600.000 kHz
	4. It Freq Error ndwidth	0702 MHz 7.825 kHz 4.648 MHz	% of OBW Pow x dB		99.00 % 6.00 dB	Freq Offset 0 Hz
80				Co STAT	rus	



HSDPA_B4_MidCH1413-1732.6

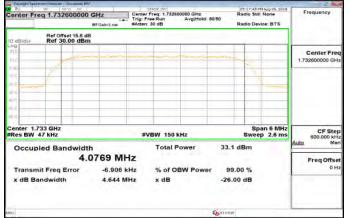
HSDPA_B4_HighCH1513-1752.6

Avergitt.Spect	HP DOCUDER		1 111	ar awr			100.00.48.0	M Apg 09, 2010	22.00
	g 1.75260000		Center Free Trig: Free #Atten: 30	q: 1,75260 Run	AvgiHold 50	0/50	Radio Std	None	Frequency
10 dBrdiv	Ref Offset 15.6 Ref 30.00 dB								
Log 310 100 100 100 200 200 400						~			Center Fred 1,752600000 GHz
Center 1.7 #Res BW			#VB	W 150 k	(Hz	_		an 6 MHz p 2.6 ms	CF Step
Occup	ied Bandwid 4	Ith .0678 MH		Total P	ower	33.	3 dBm		Auto Mar
	it Freq Error Indwidth	10.231 k 4.633 M	Hz	% of Of x dB	BW Power		9.00 % .00 dB		0 Hz
(CHR)					- 0	Converter de	5		

HSUPA B4 LowCH1312-1712.4

Center Fre	eq 1.712400000	Trig: I	r Freq: 1,712400000 GHz Free Run AvgiHold: 5 1: 30 dB	C5-11-45 PM Aug 09, 2018 Radio Std: None 0/50 Radio Device: BTS	Frequency
10 dB/div	Ref Offset 15.6 dl Ref 30.00 dBm				
10,0 10,0 0,00					Center Free 1,712400000 GH
20.0	1			1	
4d 0					
Center 1.7 #Res BW			VBW 150 kHz	Span 6 MHz Sweep 2.6 ms	CF Step
Occup	ied Bandwidt 4.1	h 0723 MHz	Total Power	33.1 dBm	Auto Ma
	hit Freq Error andwidth	4.176 kHz 4.649 MHz	% of OBW Power x dB	99.00 % -26.00 dB	OH
80				Costatus	

HSUPA B4 MidCH1413-1732.6



HSUPA_B4_HighCH1513-1752.6

PL R	HI SUID DC	V	SING.				M Aug 09, 2018	
Center Fre	eg 1.752600000	MFGain:Low	Center Free Trig: Free R #Atten: 30 c		Hz Hold: 50/50	Radio Std Radio Dev		Frequency
10 dB/div	Ref Offset 15.6 d Ref 30.00 dBn							
31,0 10,0 11,00	-		~			~		Center Freq 1,752600000 GHz
20.0 -20.0	1							
401) 40() -60(0)								
Center 1.7 Res BW			#VBM	/ 150 kHz			an 6 MHz p 2.6 ms	CF Step 600.000 kHz
Occup	led Bandwidt 4.	h 0609 MH		otal Power		33.1 dBm		Auto Man Freg Offset
	it Freq Error Indwidth	6.693 ki 4.613 Mi	tz 9	6 of OBW P dB		99.00 % -26.00 dB		OHz
enc)					16-	TATUS		

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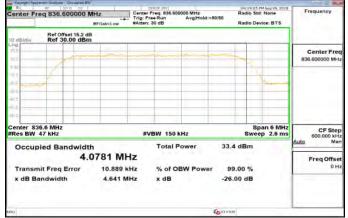
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Report No.: ER/2018/70125 Page 106 of 468

WCDMA B5 LowCH4132-826.4

Center Fre	eq 826.400000 I	Tr	enter Freq: 826.4 rig: Free Run Atten: 30 dB	AvgiHold: 50/50	Radio Std: N Radio Devic	lone	Frequency
10 dB/div	Ref Offset 15.2 d Ref 30.00 dBn						
10.0 10.0 0.00 10.0	1		~~~~~		~		Center Fred 826.400000 MHz
20.0 20.0 40.0 40.0 60.0							
Center 82 Res BW		-	#VBW 150	kHz		2.6 ms	CF Step
	ied Bandwidt 4.	h 0894 MHz -12.657 kHz		Power	33.3 dBm 99.00 %	A	ito Mar Freq Offset 0 Ha
x dB Ba	Indwidth	4.681 MHz	x dB		-26.00 dB		
a				1	STATUS	-	



WCDMA_B5_MidCH4183-836.6

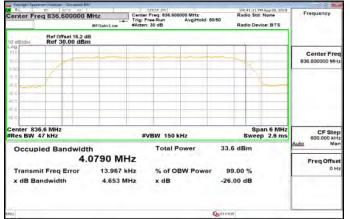
WCDMA_B5_HighCH4233-846.6

Center Fre	q 846.600	000 MH	Z Gain Low			AvgiHold: 50	¥50	Radio St	M Aug 09, 2018 d: None vice: BTS	Frequency
10 dB/div	Ref Offset Ref 30.00									
10.0 10.0	- Area							~		Center Freq 846.600000 MHz
10.0	1								han	
30 0. 40 0.							_			
40.0 ED C					-		_			
Center 846 Res BW 4			-	#VI	BW 150 P	Hz			pan 6 MHz ep 2.6 ms	CF Step
Occupi	ed Band		b.co.		Total P	ower	33.4	dBm		Auto Mar
		4.10	29 MH	z						Freq Offset
	it Freq Err ndwidth	or	-828 H 4.715 MH		% of O x dB	BW Power		.00 % 00 dB		0 82
							Charles to 1			

HSDPA B5 LowCH4132-826.4

Center Fr	eq 826.400000 N	Trig:	r Freq: 826.400000 MHz Free Run AvgiHold: 5 n: 30 dB	50/50 Radio Std: None Radio Device: BTS	Frequency
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm				
100 100 100 100	1-	-		-	Center Free 826.400000 MH
20.0 -20.0 -0.0					
Center 82 #Res BW			VBW 150 kHz	Span 6 MHz Sweep 2.6 ms	CF Ste 600.000 kH
Occup	led Bandwidth 4.0) 816 MHz	Total Power	34.2 dBm	Auto Ma
	hit Freq Error andwidth	-9.867 kHz 4.695 MHz	% of OBW Power x dB	99.00 % -26.00 dB	0H
enci				Contanus	

HSDPA_B5_MidCH4183-836.6



HSDPA_B5_HighCH4233-846.6

Repetitions	Ar Stro			INCLUM			04.4	2:35 PM Apr 09, 2018	222.84
Center Fre	eq 846.600	 Z Gain:Low	Center Trig: Fr #Atten:		AvgiHold:	50/50		o Std: None o Device: BTS	Frequency
10 dB/div	Ref Offset Ref 30.0								
10,0 10,0 10,0	1	 					-		Center Freq 846.600000 MHz
10.0 -20.0	*							han	
-30 0. -4011 -4010						-			
Center 84	6 6 MU2							Span 6 MHz	
#Res BW			#V	BW 150 P	Hz		S	weep 2.6 ms	CF Step 600.000 kHz Auto Man
Occup	led Band	00 10	-	Total P	ower	33	.6 dBr	n	F
	it Freq En Indwidth	10.953 k 4.722 M	Hz	% of Of x dB	BW Powe		99.00 9 6.00 di		Freq Offset 0 Hz
66						Costa-	105		-

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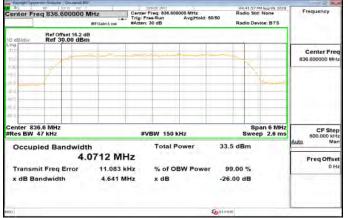
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HSUPA_B5_LowCH4132-826.4

Center Fre	eq 826.400000 M		Center Freq: 828.40 Trig: Free Run #Atten: 30 dB	AvgiHold: 50/5	Radio Std		Frequency
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm						
35,0 10,0 10,0 10,0	-				-		Center Freq 826,400000 MHz
an () 20 (). (d f)							
Center 82			#VBW 150	kHz		an 6 MHz p 2.6 ms	CF Step
Occup	ied Bandwidt 4.	h 0824 MH	Total Z	Power	33.5 dBm		Auto Man
	hit Freq Error andwidth	-9.894 kH 4.686 MH		BW Power	99.00 % -26.00 dB		OHz
0				C.	STATUS		-



HSUPA_B5_MidCH4183-836.6

HSUPA_B5_HighCH4233-846.6

g 846.600000	MHz	Center Fr	eq: 846,600		150			Frequency
	#FGain:Low			rivent v		Radio	Device: BTS	
Ref Offset 15.2 Ref 30.00 dB	dB							
						~		Center Free 846.600000 MHz
2							1	
			_					
		_	_				-	
6 MHz 7 kHz		#VE	W 150 P	Hz				CF Step 600.000 kH
			Total P	ower	33	5 dBm		Auto Mar
4	.1128 MH	z						Freq Offse
t Freq Error	4.816 ki	łz	% of O	BW Power	9	9.00 %		0 Ha
ndwidth	4.716 M	Hz	x dB		-26	.00 dB		
					n			
	Ref Offset 162 Ref 30.00 dB Ref 30.00 dB .6 MHz 7 kHz ed Bandwice 4 t Freq Error	g 846.600000 MHz Ref 00ffset 15.2 dB Ref 30.00 dBm 6 MHz 7 kHz ed Bandwidth 4.1128 MH t Freq Error 4.816 kl	g 345.600000 MHz g 345.600000 MHz PFGaleLow Ref Offset 152 dB Ref 30.00 dBm 6 MHz 7 KHz 8 WE ed Bandwidth 4.1128 MHz 4.816 kHz	IN BOO COMING AND ADDRESS OF ADDR	Arran Array	A Store for the second	IN 1970 SEC 1 1 2000 CM HZ GR65.000000 MHZ IF Gaint Low Fig As 6.00000 MHZ Fig Gaint Low Fig Caint Low Fig As 6.00000 MHZ Fig Caint Low Fig Caint Lo	Average of the first second mark and the fir

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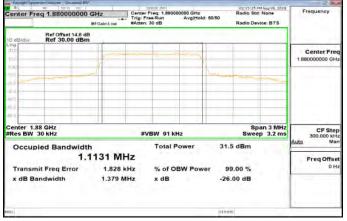
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Band2_1_4MHz_QPSK_6_0_LowCH18607-1850.7

Center Fre	eq 1.850700000	Trig:	Freq: 1,850700000 GHz Free Run Avgillo n: 30 dB	Radio Device: BTS		Frequency	
10 dB/div	Ref Offset 14.8 dB Ref 30.00 dBm						
10,0 10,0 10,0							Center Free 1 850700000 GH
20.0		1		-	J0		
-30 0. Ad 0							
Center 1.8	51 GHz				Spa	n 3 MHz	
Res BW 30 kHz #VBW 91 kHz Sweep 3.2 ms							CF Ste 300.000 ki
Occup	led Bandwidth	365 MHz	Total Power	Total Power 24.2 dBm			
Transmit Freq Error 4.629		4.629 kHz 1.926 MHz	% of OBW Por x dB	99.00 % 6.00 dB	Freq Offse 0 H		
ea				TAT	rus		

Band2_1_4MHz_QPSK_6_0_MidCH18900-1880



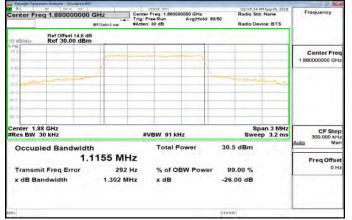
Band2_1_4MHz_QPSK_6_0_HighCH19193-1909.3

Center Freq 1.909300000 GHz				Center Freq: 1,909300000 GHz Trig: Free Run AvgiHold: 50/50				t: None	Frequency
		#FGain:Low	#Atter	n: 30 dB			Radio De	vice: BTS	
10 dB/div	Ref Offset 14.8 d Ref 30.00 dBn								
100. 100									Center Freq 1 909300000 GHz
100		1			1				
20.0		~				-	1		
40.0.	_	-		-	-				
90.0		_		_			_		
60 C.		1							
Center 1.909 GHz Span 3 MHz Span 3 MHz #VBW 91 kHz Sweep 3.2 ms									CF Ste 300.000 kH
Occupied Bandwidth				Total Power 21			9 dBm		Auto Man
	1.	7617 MI	Ηz						Freq Offset
Transmit Freq Error -125.31 kl			kHz	Hz % of OBW Power 9			9.00 %	. A	0 8
x dB Bandwidth		2.857 M	2.857 MHz		x dB		-26.00 dB		
e é l						TAT	or.		

Band2_1_4MHz_16QAM_6_0_LowCH18607-1850.7

Center Fr	eg 1.850700000		enter Freq: 1,850 rig: Free Run Atten: 30 dB	Radio Std: 1 Radio Devic	Vone	Frequency	
10 dB/div							
10,0 10,0		grade a					Center Free 1.850700000 GH
100							
-30 0.							
10.0 FD C							
Center 1.8 #Res BW			#VBW 91 k	Hz		n 3 MHz 3.2 ms	CF Step 300.000 kH
Occup	led Bandwidt			Power	24.7 dBm		Auto Ma
1.8844 MH Transmit Freq Error 18.995 ki				99.00 %		Freq Offse	
x dB Ba	andwidth	2.931 MH	x dB		-26.00 dB		
VENC)					STATUS		

Band2_1_4MHz_16QAM_6_0_MidCH18900-1880



Band2_1_4MHz_16QAM_6_0_HighCH19193-1909.3

RL I	NU SUD DC			NGR STAT				4 Aug 06, 2018	Frequency
Center Fre	Center Freq: 1,909300000 GHz Trig: Free Run Avg Hold: 50/50 #Atten: 30 dB			Radio Std: None Radio Device: BTS		rrequency			
10 dBrdiv	Ref Offset 14.8 dB Ref 30.00 dBm								
100 100			~~~~						Center Free 1.909300000 GH
0.000 10.0		-				-			
2010 -30-03 -4010				-					
40.0 40.0						_			
Center 1.9	د Penter 1.909 GHz Span 3 MHz Res BW 30 KHz تلاله الله Res BW 30 KHz تلاله الله الله الله الله الله الله الل								CF Ste 300.000 kH
Occup	Occupied Bandwidth			Total Power 23					Auto Mar
	1.8230 MH Transmit Freq Error -107.31 k x dB Bandwidth 2.940 M		Hz % of OBW Power			99.00 % 6.00 dB	Freq Offse 0 H		
inc)						TAT	nie.		

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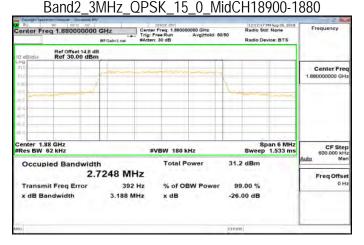
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Band2_3MHz_QPSK_15_0_LowCH18615-1851.5

Center Fre	eg 1.851500000		Center Freq: 1.851 Trig: Free Run #Atten: 30 dB	500000 GHz AvgiHold: 50	Radio S	td: None evice: BTS	Frequency
10 dB/div	Ref Offset 14.8 dB Ref 30.00 dBm						
10,0 10,0		ni	~~~~~				Center Free 1.851500000 GH
N000			-		-		
-0 0. Ad 0			_				
40.0 60 C			-				
Center 1.8 Res BW			#VBW 180	kHz		pan 6 MHz 1.533 ms	CF Ste 600.000 kH
Occup	led Bandwidth	3117 MH		Power	31.7 dBm	1.5	Auto Ma
		12.272 kH 5.424 MH	z % of C	DBW Power	99.00 % -26.00 dB		Freq Offse
					TATOS		



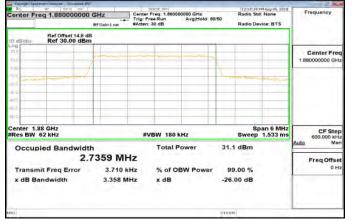
Band2_3MHz_QPSK_15_0_HighCH19185-1908.5

RL RL	W SUD DC		3016					PH Aug 06, 2018	Frequency	
Center Fre	eq 1.908500000	GHz MFGain:Low	Trig: Free F	Center Freq: 1,908500000 GHz Trig: Free Run Avg Hold: 50/50 #Atten: 30 dB				d: None wice: BTS	(coquanty	
10 dB/div	Ref Offset 14.8 d Ref 30.00 dBn									
300 300							-		Center Free 1 308500000 GH	
n iki		2				1	_		1.30850000 GH.	
0.0						-				
30 Q.							-			
400 10.0										
6D 0.				-						
Center 1.9 Res BW			#VBV	V 180 k	Hz			pan 6 MHz 1.533 ms	CF Step 600.000 kH	
Occup	ied Bandwidt	h		Total P	ower	2	4.6 dBm		Auto Mar	
	3.	5709 MH	z						Freq Offse	
	hit Freq Error	-263.05 k			BW Powe		99.00 %		08	
x dB Ba	andwidth	5.977 M	Hz	dB		-	26.00 dB			
80						-	04105			

Band2_3MHz_16QAM_15_0_LowCH18615-1851.5

Center Fre	g 1.8515000	Trig:	Center Freq: 1.851500000 GHz Trig: Free Run Avg Hold: 50/50 #Atten: 30 dB				vice: BTS	Frequency		
Ref Offset 14.8 dB 10 dB/dy Ref 30.00 dBm										
310 100										nter Free
10.0		2	_				~~~~			
20.0										
40.0				-						
-60 0.			-							
Center 1.8 #Res BW 6			1	VBW 180 H	Hz			an 6 MHz 1.533 ms	60	CF Step
Occupi	led Bandwi			Total P	ower	31.1	dBm		Auto	Mar
		2.7605 N							Fre	eq Offse
	it Freq Error	4.02			BW Power		00 %		1	OH
X OB Ba	ndwidth	5.220	MHZ	x dB		-20.0				
enci						UTA105				

Band2_3MHz_16QAM_15_0_MidCH18900-1880



Band2_3MHz_16QAM_15_0_HighCH19185-1908.5

enter Fre	g 1.908500000		Center F	req: 1,90850			Radio Std	MAag 06, 2018	Frequency	
		MFGain:Low	Trig: Free Run Avg Hold: 50/50 #Atten: 30 dB				Radio De	vice: BTS		
10 dB/div	Ref Offset 14.8 d Ref 30.00 dBn									
31.0				-					Center Free	
0.0		110-00-00-00				2			1.908500000 GH	
0.00	a la					1				
20.0					1 1					
00		_	_		_	_	_			
ian		_								
0.0				-						
3D 0.					-			1.000		
Res BW			#VI	BW 180 k	Hz			an 6 MHz 1.533 ms	CF Step	
Occup	led Bandwidt	h		Total P	ower	24	1.8 dBm		Auto Mar	
occup		7166 MH	17						Freq Offset	
Tranem	it Freq Error	-306.15 k	100	% of O	W Powe		99.00 %		0 Ha	
	Indwidth	5.963 M		x dB	SWFOW		6.00 dB		-	
X 00 00	ind write in	0.000 m					0.00 00			
							105			

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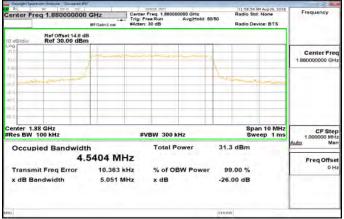
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~	AL 880	표소 소네	14 B	1.12-1	- 18	~	-T	
T	灣檢	微和	夜月	27571	月限	~	티	



Band2 5MHz QPSK 25 0 LowCH18625-1852.5

Center Fre	ag 1.852500000	Trig	er Freq: 1,852500000 GHz : Free Run Avg Hold:> en: 30 dB	-50/50 F	11-58:09 AM Aug 08, 2018 Iadio Std: None Iadio Device: BTS	Frequency
10 dB/div	Ref Offset 14.8 dB Ref 30.00 dBm					
10,0 10,0						Center Fred 1 852500000 GHz
0.00 	formation					
-10 0. -40 0						
-60 0.						
Center 1.8 #Res BW			#VBW 300 kHz		Span 10 MHz Sweep 1 ms	CF Step 1.000000 MH
Occup	led Bandwidth	282 MHz	Total Power	31.6 d	IBm	Auto Mar
	it Freq Error	485 Hz	% of OBW Powe		7,750	Freq Offset 0 Ha
x dB Ba	indwidth	5.022 MHz	x dB	-26.00	dB	1
and l				TATUS		



Band2_5MHz_QPSK_25_0_MidCH18900-1880

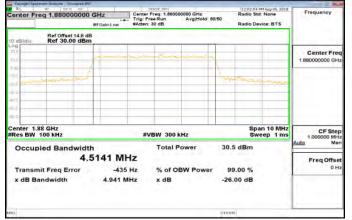
Band2_5MHz_QPSK_25_0_HighCH19175-1907.5

Averaght Spectr	HI SHO DO			anar avr				M Aug US, 2018		
	eq 1.90750000		Center Trig: F	Center Freq: 1,907500000 GHz Trig: Free Run AvgiHold:>50/50 #Atten: 30 dB			Radio Std: None Radio Device: BTS		Frequency	
10 dB/div	Ref Offset 14.8 d Ref 30.00 dB	dB m								
10,0 10,0 10,0		/							Center Fred 1.907500000 GH	
20.0		<u> </u>					~		_	
30 0.) 40 0										
Center 1.9	08 GH2						Sna	n 10 MHz		
#Res BW 1			#1	/BW 300 P	Hz			eep 1 ms	CF Step 1.000000 MH	
Occupi	ed Bandwid	th		Total P	ower	31.7 0	Bm		Auto Mar	
	4	.9901 M	Hz						Freq Offset	
	it Freq Error ndwidth	-187.42 9.661 M		% of O x dB	BW Power	99.0 -26.00			0 Hi	
60						EVATOS				

Band2_5MHz_16QAM_25_0_LowCH18625-1852.5

Center Fre	eq 1.852500000	Trig	ter Freq: 1,85250 g: Free Run ten: 30 dB	0000 GHz AvgiHold: 50	Rad	do:58 PM Aug do, 2018 lio Std: None lio Device: BTS	Frequency
10 dB/div	Ref Offset 14.8 dE Ref 30.00 dBm	3					
10.0 10.0							Center Free 1 852500000 GH
0.000 					have		
30 G. Agri							
40.0 60.0						-	
Center 1.8 #Res BW 1			#VBW 300 k	Hz		Span 10 MHz Sweep 1 ms	CF Step 1.000000 MH
Occupi	ed Bandwidt		Total P	ower	31.3 dE	Im	Auto Mar
Tranem	4.	10.779 kHz	% of OF	BW Power	99.00	0/.	Freq Offse
	ndwidth	6.397 MHz	x dB	SW FOWER	-26.00		-
eig)					TATUS		

Band2_5MHz_16QAM_25_0_MidCH18900-1880



Band2_5MHz_16QAM_25_0_HighCH19175-1907.5

P	W Strip DC	T	1 300	51 201			112:07:55	PH App 05, 2018	
Center Fre	eq 1.907500000 G	Hz FGain:Low	Center Freq: 1.907500000 GHz Trig: Free Run Avg Hold: 50/50 #Atten: 30 dB			Radio Std: None Radio Device: BTS		Frequency	
10 dB/div	Ref Offset 14.8 dB Ref 30.00 dBm								
100 100									Center Fred 1.907500000 GHz
						Free			
2010 30 G. 40 D									
40.0 60.0		-							
Center 1.9 Res BW			#VB	W 300 H	Hz	-	Spa Sw	an 10 MHz eep 1 ms	CF Step 1.000000 MH
Occup	led Bandwidth			Total P	ower	30.	5 dBm		Auto Mar
		561 MH -4.081 k 8.073 Mi	Hz	% of O x dB	BW Power		9.00 % .00 dB		Freq Offset 0 Hz
NO 1						STA10	5		

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Band2_10MHz_QPSK_50_0_LowCH18650-1855

Center Fre	eq 1.855000000	Trig	Center Freq: 1.855000000 GHz Trig: Free Run AvgiHold: 50/50 #Atten: 30 dB			5:40 AM Aug 06, 2018 o Std: None o Device: BTS	Frequency
10 dB/div	Ref Offset 14.8 dB Ref 30.00 dBm						
39,0 10,0							Center Free 1 855000000 GH
9.000 10.0 20.0	-		-		- Anna		
30 0. Aŭ 1			_				
40.0 60 C			-				
Center 1.8 #Res BW			#VBW 620	kHz		Span 20 MHz Sweep 1 ms	CF Ste 2.000000 MH
Occup	led Bandwidt	0861 MHz	Total	Power	31.3 dBr	n	Auto Ma
	it Freq Error Indwidth	17.938 kHz 10.56 MHz	% of C x dB	BW Power	99.00 9 -26.00 d	-	0 H
inci i					STATUS		

nter Freq 1.880000000 GHz Ref Offset 14.8 d Ref 30.00 dBr Center Fre

Band2_10MHz_QPSK_50_0_MidCH18900-1880

enter 1.88 GHz tes BW 200 kHz Span 20 MHz CF Ste BW 620 kHz 20 Occupied Bandwidth Total Power 31.4 dBm 9.0842 MHz Transmit Freg Error -6.224 kHz % of OBW Power 99.00 % 10.48 MHz x dB Bandwidth -26.00 dB x dB

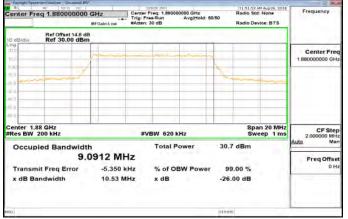
Band2_10MHz_QPSK_50_0_HighCH19150-1905

Center Fre	eq 1.90500000	0 GHz	Trig:	Center Freq: 1,90500000 GHz Trig: Free Run AvgiHold: 50/50 #Atten: 30 dB			Radio Std: None Radio Device: BTS		Frequency	
10 dB/div	Ref Offset 14.8 Ref 30.00 dE									
310 10.0		1					-		Center Freq 1.905000000 GHz	
200						2	-	-		
-30 G. -40 D										
-10.0 -150.0							_			
Center 1.9 #Res BW				VBW 620	kHz			an 20 MHz eep 1 ms	CF Step 2.000000 MHz	
Occup	led Bandwid	1th .2130 N	IHz	Total I	Power	31	.7 dBm		Auto Man Freg Offset	
	it Freq Error Indwidth	-55.175 13.78	kHz	% of C x dB	BW Power	1.1.1.1	9.00 % 5.00 dB		0 Hz	
						TAT	or.			

Band2_10MHz_16QAM_50_0_LowCH18650-1855

Center Fre	eq 1.855000000	Trig	er Freq: 1,855000000 GHz Free Run Avg Hold en: 30 dB	50/50	Radio Std: #	lone	Frequency
10 dB/div	Ref Offset 14.8 dB Ref 30.00 dBm						
30,0 10,0		,		-		_	Center Free 1.855000000 GH
9.000 (101) (201)	winner			5			
-30 G. -30 G.							
-60 0.						_	
Center 1.8 #Res BW 2			#VBW 620 kHz		Span Swee	20 MHz p 1 ms	CF Step 2.000000 MH
Occup	led Bandwidt		Total Power	31	5 dBm		Auto Mar
Transm	9. It Freg Error	1082 MHz 24.936 kHz	% of OBW Pow	er o	9.00 %		Freq Offset
	ndwidth	11.39 MHz	x dB		5.00 dB		

Band2_10MHz_16QAM_50_0_MidCH18900-1880



Band2_10MHz_16QAM_50_0_HighCH19150-1905

Center Fre	eq 1.905000000	GHz MFGain:Low	Center Freq: 1,905000000 GHz Trig: Free Run AvgiHold: 50/50 #Atten: 30 dB			x60	Radio Device: BTS		Frequency
10 dB/div	Ref Offset 14.8 dB Ref 30.00 dBm								
10,0 10,0				- nier	· · · · · · · · · · · · · · · · · · ·				Center Fred 1.905000000 GHz
1000 100	- and the					Frank			
30 Q. 40 Q									
40.0 60.0									
Center 1.9 Res BW			#VE	Hz		Spa Swe	CF Step 2.000000 MHz		
Occup	ed Bandwidt			Total P	ower	29.9	dBm		Auto Man
Transm	9.0 It Freq Error	-11.451 k		% of Of	BW Power	99.	00 %		Freq Offset 0 Hz
x dB Ba	indwidth	12.02 M	Hz	x dB		-26.0	0 dB		
ec.						TATUS			

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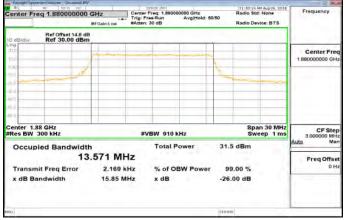
							-
台	滑槍	脸科	技服	と份有	R	公	a



Band2_15MHz_QPSK_75_0_LowCH18675-1857.5

Center Fre	g 1.857500000	GHz MFGainLow	Center	Freq: 1,8575	00000 GHz AvgiHold I	60/50	Radio Std: None Radio Device: BTS		Frequency
	Ref Offset 14.8 d Ref 30.00 dBn	в	artiser.	ov up			rugalo Der		
10 dB/div	Ref 30.00 dBr	n		1	III	1			1.
10.0			d m			1			Center Free 1 857500000 GH
9.00		-	_	-	-	Nr.	-		
10.0				-	++	- de			
20.0									
AIT ()						-			
10.0				-		-	-		
-60 0			-						
Center 1.8 #Res BW 3			#V	BW 910	kHz			eep 1 ms	CF Step 3.000000 MH
Occupi	ed Bandwidt	h		Total F	ower	31.	9 dBm		Auto Mar
	13	3.571 MH	łz						Freq Offse
Transmi	t Freg Error	22.984 k	Hz	% of O	BW Power	9	9.00 %		0 H
x dB Ba	ndwidth	16.47 M	Hz	x dB		-26	.00 dB		
96						TAR	2		

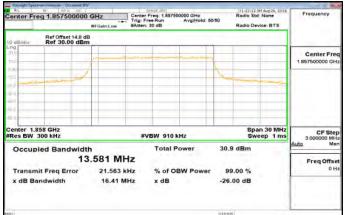
Band2_15MHz_QPSK_75_0_MidCH18900-1880



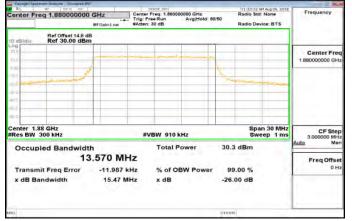
Band2_15MHz_QPSK_75_0_HighCH19125-1902.5

Center Fr	eq 1.902500		Hz FGaln:Low	Trig: I	Center Freq: 1,902500000 GHz Trig: Free Run AvgiHold: 50/50 #Atten: 30 dB				M Aug do, 2018 I: None vice: BTS	Frequency	
10 dB/div	Ref Offset 1 Ref 30.00										
310 100		1					-			Center Freq 1.802500000 GHz	
100		110	-	-			The	-			
20.0 30.0		-	-	-	_		-		June		
40.0 60.0		-					-				
Center 1.9		_		#	VBW 9101	KHZ	-	Spa	n 30 MHz eep 1 ms	CF Step	
Occup	ied Bandy	vidth			Total F	ower	32	.0 dBm		Auto Man	
		13.	655 M	Hz						Freq Offset	
Transm	nit Freq Erro	r	-59.776	kHz	% of O	BW Power	9	9.00 %	. A	0 Hz	
x dB Ba	andwidth		19.33	MHz	x dB		-26	5.00 dB			
80							TAT	and l			

Band2_15MHz_16QAM_75_0_LowCH18675-1857.5



Band2_15MHz_16QAM_75_0_MidCH18900-1880



Band2_15MHz_16QAM_75_0_HighCH19125-1902.5

Average Spect	testern-Analigizer - Occupted			and the start			11:34:22 AM		328
	eq 1.9025000	DO GHZ	Trig: F	Freq: 1,90250 Free Run 1: 30 dB	AvgiHold 5	0/50 F	Radio Std: None Radio Device: BTS		Frequency
10 dB/div	Ref Offset 14.8 Ref 30.00 df								
10,0		1 mm							Center Freq 1.902500000 GHz
10.000 0.000 -2010		2				1			
a0 0. 40 0							_	-	
40.0 60.0			-						
Center 1.9 #Res BW			#	VBW 910	Hz			30 MHz p 1 ms	CF Step 3.000000 MH
Occup	ied Bandwi	dth 3.558 M	Hz	Total P	ower	31.0 0	iBm		Auto Mar
	hit Freq Error andwidth	-27.204 15.90		% of O x dB	BW Power	99.0 -26.00			OH
60						ITATOS			

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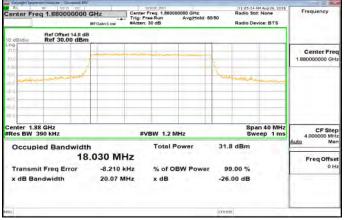
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Band2_20MHz_QPSK_100_0_LowCH18700-1860

dBm							Center Freq 1 86000000 GHz
				-			
1				here	4		-
	#	/BW 1.21	MHz				CF Ste
idth	-	Total	Power	31.9	dBm		Auto Ma
r 41.241)	Hz	% of C x dB	BW Power		1222		Freq Offse
	18.008 Mi 41.241 J	idth 18.008 MHz	idth Total 18.008 MHz 41.241 kHz % of C	18.008 MHz 41.241 kHz % of OBW Power	ldth Total Power 31.9 18.008 MHz r 41.241 kHz % of OBW Power 99	#VBW 1.2 MHz Sw Idth Total Power 31.9 dBm 18.008 MHz	idth Total Power 31.9 dBm 18.008 MHz 41.241 kHz % of OBW Power 99.00 % 20.54 MHz x dB -26.00 dB

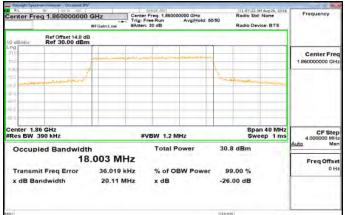
Band2_20MHz_QPSK_100_0_MidCH18900-1880



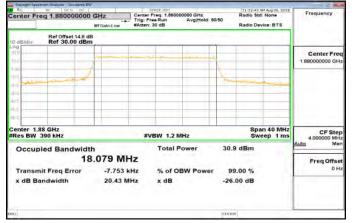
Band2_20MHz_QPSK_100_0_HighCH19100-1900

Center Fr	eq 1.900000000	MFGain Low	Center Freq Trig: Free R #Atten: 30 d	1,900000000 G	Hz Hold:>50/50	Radio St	d: None vice: BTS	Frequency
10 dB/div	Ref Offset 14.8 d Ref 30.00 dBn							
						_		Center Freq 1.90000000 GHz
9 900 10 0 20 0		(X			
-0 0. 40 0							-	
40.0 60.0			_			_		
Center 1.9 Res BW			#VBW	1.2 MHz			an 40 MHz eep 1 ms	CF Step 4.000000 MH
Occup	led Bandwidt			otal Power	3	1.8 dBm		Auto Mar
	18	3.072 MH	z					Freq Offset
Transmit Freq Error -12.3		-12.392 kl	Hz %	of OBW P	ower	99.00 %		0 Hz
x dB Ba	indwidth	20.35 M	tz x	dB	4	26.00 dB		
90					1	ATOS		

Band2_20MHz_16QAM_100_0_LowCH18700-1860



Band2_20MHz_16QAM_100_0_MidCH18900-1880



Band2_20MHz_16QAM_100_0_HighCH19100-1900

Convergite Spectre	Mr Anutyzer - Occupted BW			1161 201					
	g 1.900000000	SH2	Center I Trig: Fr	Center Freq: 1,90000000 GHz Trig: Free Run Avg Hold: 50/50 #Atten: 30 dB			Radio Std: None Radio Device: BTS		Frequency
10 dB/div	Ref Offset 14.8 dB Ref 30.00 dBm								
10,0 10,0		ann -			40				Center Free 1.900000000 GH
0.00 1010 2010 Angelegie	afore and the second	-				- min		-	-
40.0. 40.0				-			_		
-60 0.									
Center 1.9 #Res BW 3		-	#V	BW 1.2 N	IHz			an 40 MHz veep 1 ms	CF Step 4.000000 MH
Occupi	ed Bandwidth			Total P	ower	30.4	dBm		Auto Mar
		999 MH	122						Freq Offse
Transmi x dB Bar	t Freq Error ndwidth	1.175 k 19.89 M		% of O x dB	BW Power		00 dB		0 H
eigi						TATUS			

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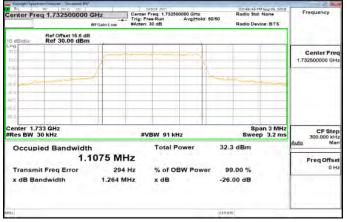
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Band4_1_4MHz_QPSK_6_0_LowCH19957-1710.7

Center Freq	1.710700000	SHz	Center Free Run Avg Hold: 50/50 #Atten: 30 dB			Radio Std: None Radio Device: BTS		Frequency	
10 dB/div	Ref Offset 15.6 dB Ref 30.00 dBm	2			3				
10,0 10,0		free			-				Center Free 1.710700000 GH
9.000 NUL		4				- we			
.0 0. 4010									
40.0 60.0									
Center 1.711 Res BW 30			#VB	W 91 kł	łz			pan 3 MHz ep 3.2 ms	CF Ster 300.000 kH
Occupied	d Bandwidth			Total P	ower	32	.8 dBm		Auto Ma
Transmitt	1.1 Freg Error	101 MH 273 I			BW Pow		9.00 %		Freq Offse
x dB Band		1.262 M		x dB	BW FOW		6.00 dB		
ia)						TA	rus		

Band4_1_4MHz_QPSK_6_0_MidCH20175-1732.5



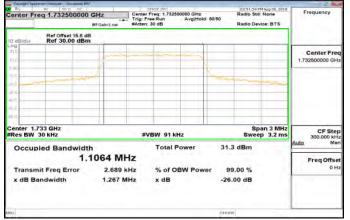
Band4_1_4MHz_QPSK_6_0_HighCH20393-1754.3

Center Fr	eg 1.754300000 (Hz FGain:Low	Center		AvgiHold	60/50	Radio Device: BTS		Frequency
10 dB/div	Ref Offset 15.6 dB Ref 30.00 dBm	-				_			
39,0 10,0		1-							Center Freq 1,754300000 GHz
1000 1000 2010		4				Suman		-	
30 0. 40 0				-					
40.0 ED C			_						
Center 1. Res BW		-	#1	BW 91 kH	łz			n 3 MHz 3.2 ms	CF Step 300.000 kHz
Occup	oled Bandwidth			Total P	ower	32	.5 dBm		Auto Man
	1.1	156 M	Hz						Freq Offset
Transm	nit Freq Error	2.857	kHz	% of OI	BW Pow	er 9	9.00 %	- A1	0 Hz
x dB Ba	andwidth	1.266 1	MHz	x dB		-26	5.00 dB		
enc)						TAL			

Band4_1_4MHz_16QAM_6_0_LowCH19957-1710.7

Center Fred	1.710700000	SHz	Center f	Center Freq: 1,710700000 GHz Trig: Free Run AvgiHold: 50/50 #Atten: 30 dB			Radio Std		Frequency
10 dB/div	Ref Offset 15.6 dB Ref 30.00 dBm								
10,0 10,0		1 mm			-				Center Free 1.710700000 GH
10.0 20.0		4				h-i			
30 0. 40 0. 									
Center 1.71	1 GHz						Sp	an 3 MHz	
Res BW 30	DKHZ		#V	BW 91 kl	Hz			p 3.2 ms	CF Step 300.000 kH
Occupie	d Bandwidth			Total F	ower	31	.3 dBm		Auto Mar
	1.1	067 MH	Iz						Freq Offse
Transmit	Freq Error	2.201 k	Hz	% of O	BW Powe	er s	99.00 %		OH
x dB Ban	dwidth	1.268 M	Hz	x dB		-2	6.00 dB		
mo)						TA	ros		

Band4_1_4MHz_16QAM_6_0_MidCH20175-1732.5



Band4_1_4MHz_16QAM_6_0_HighCH20393-1754.3

PL I				eq: 1.75430	0000 000		Radio Std	Aug 06, 2018	Frequency
Jenter Fre	9q 1.754300000 G	FGain:Low	Trig: Free #Atten: 30	1.130 1					
10 dB/div	Ref Offset 15.6 dB Ref 30.00 dBm								
200 10.0					-				Center Freq 1.754300000 GHz
1000 100 200	-	4				1			
30 G. 40 D									
40.0 40.0						-			
Center 1.7 Res BW			#VB	W 91 KH	Iz			an 3 MHz p 3.2 ms	CF Step 300.000 kHz
Occup	led Bandwidth	1		Total P	ower	32	.3 dBm		Auto Man
	1.1	103 MH	z						Freq Offset
Transm	it Freq Error	1.307 ki	Hz	% of Of	SW Pow	er 9	9.00 %		0 Hz
x dB Ba	ndwidth	1.262 M	Hz	x dB		-26	5.00 dB		
660						TAT	us		

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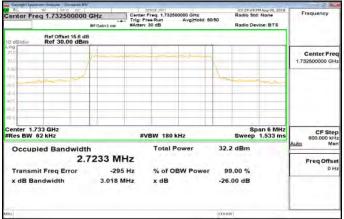
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Band4 3MHz QPSK 15 0 LowCH19965-1711.5

	1.711500000	GHz MFGainLow	Center Freq: 1,711500000 GHz Trig: Free Run Avg Hold:>50/50 #Atten: 30 dB				Radio De		Frequency
10 dB/div	Ref Offset 15.6 dB Ref 30.00 dBm								
10,0 10,0		·							Center Free 1.711500000 GH
0.00	maple					1	-		
20.0				-					
451 10.0 10.0									
Center 1.713 WRes BW 62			#VI	BW 1801	KHZ	-		an 6 MHz 1.533 ms	CF Step
Occupie	d Bandwidt	h		Total F	ower	32.	2 dBm		Auto Ma
		7233 MH							Freq Offse
Transmit x dB Ban	Freq Error dwidth	2.180 k 3.035 M		% of O x dB	BW Power		9.00 % .00 dB		OH
1						TAR	w.		



Band4_3MHz_QPSK_15_0_MidCH20175-1732.5

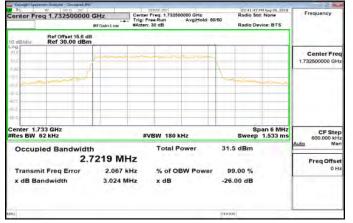
Band4_3MHz_QPSK_15_0_HighCH20385-1753.5

Center Fre	eq 1.753500000 (Hz FGain:Low	Center Freq: 1,755500000 GHz Trig: Freq Run Avg Hold: 50/50 #Atten: 30 dB			150	Radio Std: None Radio Device: BTS		Frequency
10 dB/div	Ref Offset 15.6 dB Ref 30.00 dBm					_	_		
310 10.0						-			Center Freq 1.753500000 GHz
10.00 10.0	-					1			
40.00 40.00									
-60 0.		-					-		
Res BW			#VE	3W 180 k	Hz			an 6 MHz 1.533 ms	CF Step 600.000 kHz
Occup	ied Bandwidth			Total P	ower	32.5	dBm		Auto Man
	2.7	216 MH	z						Freq Offset
Transm	hit Freq Error	690	Hz	% of Of	BW Power	99	.00 %		0 Hz
x dB Ba	andwidth	3.007 M	Hz	x dB		-26.0	00 dB		
ec						TATUS			

Band4_3MHz_16QAM_15_0_LowCH19965-1711.5

Center Fre	eq 1.711500000	T	enter Freq: 1,711 rig: Free Run Atten: 30 dB	500000 GHz AvgiHold: 50	Radio Str	d: None vice: BTS	Frequency
10 dB/div	Ref Offset 15.6 dB Ref 30.00 dBm						
10,0 10,0							Center Free 1.711500000 GH
2000 -2010	approximate the				Lonio		
40 0. 40 0.						_	
-60 0.							
Center 1.7 #Res BW			#VBW 180	kHz		an 6 MHz 1.533 ms	CF Step 600.000 kHz
Occup	led Bandwidt			Power	31.4 dBm		Auto Mar
		7308 MHz			1000		Freq Offset
	hit Freq Error andwidth	13.635 kHz 3.033 MHz		DBW Power	99.00 % -26.00 dB		0 43
enc)					TATUS		

Band4_3MHz_16QAM_15_0_MidCH20175-1732.5



Band4_3MHz_16QAM_15_0_HighCH20385-1753.5

RL .	HE SER DC	1		NER SINT				M Aug 06, 2018	Frequency
Center Fre	eg 1.753500000	GHz MEGain:Low			AvgiHold: 50	150	Radio Std		Frequency
1	Ref Offset 15.6 dB		Hetavit. V	V GD			Traditio De		
10 dB/div	Ref 30.00 dBm	· · · · · ·				_			
31,0		-			time -	-	-		Center Freq
10.0				-		-	-		1,753500000 GH
1.00	1					X	-		
0.0	1 month at					here	and a		
0.0				-					
0 0. 0 0									
0.0									
0.0									
							-		
Center 1.7 Res BW		-	#VI	SW 180 k	Hz			an 6 MHz 1.533 ms	CF Step 600.000 kH
Occup	ied Bandwidth			Total P	ower	31.0	6 dBm		Auto Mar
occup		205 MH	17						1 martine 2
-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1					Assessed.	1.0	4. 20		Freq Offse
	hit Freq Error	3.506 k			BW Power		9.00 %		
x dB Ba	andwidth	3.020 M	Hz	x dB		-26.	00 dB		
ici i						TATO	5		

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Band4 5MHz QPSK 25 0 LowCH19975-1712.5

Center Fre	g 1.712500000	I GHz	Center Trig: Fr	Center Freq: 1,712500000 GHz Trig: Free Run AvgiHold: 50/50 #Atten: 30 dB			Radio Std: None Radio Device: BTS		Frequency
10 dB/div	Ref Offset 15.6 c Ref 30.00 dB								
310 100									Center Free 1.712500000 GH
9.00 10.0	and market				-	1			
20.0							-		
40.0									
Center 1.7	13 GHz						Sp	an 10 MHz	
Res BW 1	00 kHz		#\	BW 300 P	Hz			eep 1 ms	CF Step 1.000000 MH
Occupi	ed Bandwid	th		Total P	ower	32.0	6 dBm		Auto Mar
	4	5306 M	Hz						Freq Offse
	t Freq Error	13.070	kHz	% of O	BW Power	99	9.00 %		OH
x dB Ba	ndwidth	5.001 M	MHz	x dB		-26.	00 dB		
						TATO			

nter Freq 1.732500000 GHz Radio Device: BT: Ref Offset 15.6 d Ref 30.00 dBr Center Fre 73250 enter 1.733 GHz Res BW 100 kHz Span 10 MHz CF Ste BW 300 kHz à 190 Occupied Bandwidth Total Power 32.4 dBm 4.5396 MHz Transmit Freg Error 453 Hz % of OBW Power 99.00 % 5.046 MHz x dB Bandwidth -26.00 dB x dB

Band4_5MHz_QPSK_25_0_MidCH20175-1732.5

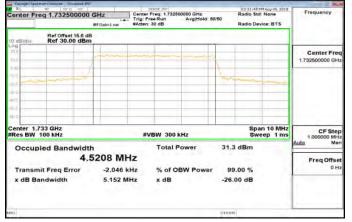
Band4_5MHz_QPSK_25_0_HighCH20375-1752.5

Center Fr	eq 1.7525000		Center Trig: Fr	Center Freq: 1,752500000 GHz Trig: Free Run Avg Hold: 50/50 #Atten: 30 dB				t: None vice: BTS	Frequency
10 dB/div	Ref Offset 15.6 Ref 30.00 di								
10,0 10,0						-			Center Freq 1.752500000 GHz
N0.0		4				1			
-30 Q. -40 Q									
-60 C)	_			-					
Center 1. #Res BW			#\	/BW 300	kHz			eep 1 ms	CF Step 1.000000 MHz
Occup	led Bandwi			Total F	ower	32.7	dBm	-	Auto Man
	4	4.5244 MI	Ηz						Freq Offset
	nit Freq Error			% of O	BW Power	99	9.00 %		0 Hz
x dB B	andwidth	5.039 N	IHz	x dB		-26.	00 dB		
49Q						TATO			

Band4_5MHz_16QAM_25_0_LowCH19975-1712.5

Center Fre	g 1.712500000		Center Free Run Avg Hold: 50/50 #Atten: 30 dB			dio Std: None Idio Device: BTS	Frequency
10 dB/div	Ref Offset 15.6 dB Ref 30.00 dBm						
10,0			~~~~				Center Free 1.712500000 GH
0.000 -10.0	maniel				here	~	
40 0. 40 0							
-60 0.			_				
Center 1.7 #Res BW 1	13 GHz 100 kHz		#VBW 3	00 kHz		Span 10 MHz Sweep 1 ms	1.000000 MH
Occupi	led Bandwidt			al Power	31.9 di	Bm	Auto Mar
	4.5	5124 MH	z				Freq Offse
Transm	it Freq Error	11.913 kH	lz % 0	f OBW Power	99.00)%	0 H
x dB Ba	ndwidth	4.948 MH	iz xdi	В	-26.00	dB	1
640					TATUS		

Band4_5MHz_16QAM_25_0_MidCH20175-1732.5



Band4_5MHz_16QAM_25_0_HighCH20375-1752.5

R PL	testern-Analyzer - Occupied BW			THE REAL			03-22:38	PM Apg 06. 2018	
Center Fre	eg 1.752500000 G	2500000 GHz Center Freq: 1,74 Trig: Free Run #FGain:Low #Atten: 30 dB			AvgiHold: 50/50			d: None vice: BTS	Frequency
10 dB/div	Ref Offset 15.6 dB Ref 30.00 dBm								
340 10.0 10.0									Center Freq 1,752500000 GHz
20.0	- manual -					here	-		
40.0. 40.0									
Center 1.7	753 GHz						Spa	an 10 MHz	CF Step
Res BW	100 kHz		#V	BW 300 H			Sw	eep 1 ms	1.000000 MHz Auto Mar
Occup	led Bandwidth 4.5	176 MH	Iz	Total P	ower	31.1	8 dBm		FreqOffset
	hit Freq Error andwidth	6.981 k 4.965 M		% of OI x dB	BW Power		9.00 % .00 dB		0 Hz
eo l						TATO	s		-

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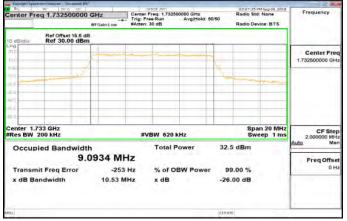
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Band4_10MHz_QPSK_50_0_LowCH20000-1715

Center Fre	aq 1.715000000	GHz MEGain:Low	Center Freq: 1,71 Trig: Free Run #Atten: 30 dB	5000000 GHz AvgiHold: 50	0/50 R	adio Std: None adio Device: BTS	Frequency
10 dB/div	Ref Offset 15.6 dB						
10.0 10.0							Center Free 1,715000000 GH
9.00 100					Y		
20.0							
40.0 40.0 40.0							
Center 1.7			#VBW 62	0 kHz		Span 20 MH Sweep 1 m	
Occup	led Bandwidt			Power	32.1 d	Bm	Auto Ma
	9.1 It Freq Error ndwidth	44.657 kH 10.59 MH	tz % of	OBW Power	99.0 -26.00		Freq Offse 0 H
enci i					SULATE		

Band4_10MHz_QPSK_50_0_MidCH20175-1732.5



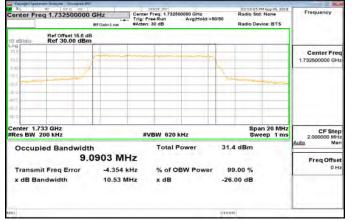
Band4_10MHz_QPSK_50_0_HighCH20350-1750

Center Fre	eq 1.750000000	Center F Trig: Fre	Center Freq: 1,750000000 GHz Trig: Free Run Avg Hold: 50/50 #Atten: 30 dB				d: None	Frequency	
10 dB/div									
100				all and a second	-	-	-		Center Freq 1,750000000 GHz
N0.0	and the second					X			
-30 0. -40 1.									
-10.0 -10.0				-			-		
Center 1.7 #Res BW			#VI	BW 620 P	Hz			an 20 MHz reep 1 ms	CF Step 2.000000 MHz
Occup	led Bandwidt			Total P	ower	32	.3 dBm	-	Auto Man
Transm	9. it Freq Error	11.954 kl		% of O	BW Power	5	9.00 %		Freq Offset 0 Hz
	indwidth	10.48 M		x dB		-20	5.00 dB		
49C)						ETAI	05	_	

Band4_10MHz_16QAM_50_0_LowCH20000-1715



Band4_10MHz_16QAM_50_0_MidCH20175-1732.5



Band4_10MHz_16QAM_50_0_HighCH20350-1750

Coperation Spect	Mr Sing UC	· · · ·	1.00	NSF JWF	-		Local Back P	M Apg (16, 2018	22.2
	eq 1.750000000	GHz MEGain:Low	Center F Trig: Fre	Center Freq: 1,75000000 GHz Trig: Free Run Avg Hold: 50/50 #Atten: 30 dB				None	Frequency
10 dB/div	Ref Offset 15.6 dB Ref 30.00 dBm								
100 100 100					hit .	1			Center Freq 1,75000000 GHz
200 -200 -200	and the second					20			
400									
Center 1.7 #Res BW			#VI	BW 6201	kHz			n 20 MHz eep 1 ms	CF Step
Occup	led Bandwidt	h 0898 MH	17	Total F	ower	31.	6 dBm		Auto Man Freq Offset
		20.800 k 10.46 M	Hz	% of O x dB	BW Power		9.00 % .00 dB		0 Hz
enci i						TAN	5		

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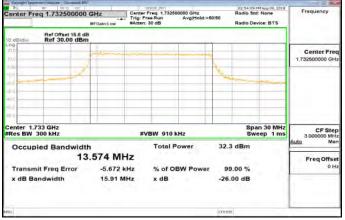
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Band4 15MHz QPSK 75 0 LowCH20025-1717.5

Center Fre	g 1.717500000	Tria Tria	senese avri nter Freq: 1,717500 g: Free Run tten: 30 dB	000 GHz AvgiHold: 50/50	Radio Device: BTS		Frequency
10 dB/div	Ref Offset 15.6 dl Ref 30.00 dBm						
30.0 10.0				jernom		_	Center Fre 1,717500000 GH
9.00 10.0 20.0	and the second					-	
.0 0. 4111							
10.0 30.0			-				
Res BW 3			#VBW 910 kH	iz		30 MHz p 1 ms	CF Ste 3.000000 MH
Occupi	ed Bandwidt 13	h 8.530 MHz	Total Po	wer :	32.5 dBm		Auto Ma
Transmi x dB Ba	it Freq Error ndwidth	44.791 kHz 15.81 MHz	% of OB x dB	W Power	99.00 % 26.00 dB		0H
0					TATOS		

Band4_15MHz_QPSK_75_0_MidCH20175-1732.5



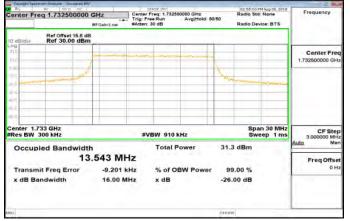
Band4_15MHz_QPSK_75_0_HighCH20325-1747.5

Center Fre	eq 1.747500000	GHz MFGain:Low	Trig: Fre	Center Freq: 1,747500000 GHz Trig: Free Run AvgiHold: 50/50 #Atten: 30 dB				MAng 06, 2018 d: None vice: BTS	Frequency
Ref Offset 15.6 dB 10 dB/div Ref 30.00 dBm									
100 100									Center Freq 1,747500000 GHz
20.0						24			
-30 0. -4011			_						
-60 0									
Center 1.7 #Res BW			#VI	BW 910 k	Hz			an 30 MHz eep 1 ms	CF Step 3.000000 MHz
Occup	led Bandwidt	h		Total P	ower	33.3	dBm		Auto Man
	13	.633 MH	z						Freq Offset
Transmit Freq Error 28.57		28.572 k	Hz	% of OI	BW Power	99	.00 %		0 Hz
x dB Ba	indwidth	16.06 M	Hz	x dB		-26.	00 dB		
enc)						UTA105			

Band4_15MHz_16QAM_75_0_LowCH20025-1717.5



Band4_15MHz_16QAM_75_0_MidCH20175-1732.5



Band4_15MHz_16QAM_75_0_HighCH20325-1747.5

Center Fre	eq 1.747500000	GHz MFGain:Low	Center Freq: 1,747500000 GHz Trig: Free Run AvgiHold: 50/50 #Atten: 30 dB				Radio Device: BTS		Frequency	
10 dB/div	Ref Offset 15.6 dB Ref 30.00 dBm									
100 100									Center Free 1,747500000 GHz	
0.000 10.0	and the second second					No.				
-10 0. -10 0										
-60 0.						-				
Center 1.7 #Res BW			#VBV	V 910 k	Hz	-		n 30 MHz eep 1 ms	CF Step 3.000000 MHz	
Occup	led Bandwidt	h .563 MH		Total P	ower	31.5	ō dBm		Auto Man	
	Transmit Freq Error 27.692 i x dB Bandwidth 15.79 M		Hz % of OBW Power			99.00 % -26.00 dB		Freq Offset 0 Hz		
00						TATO				

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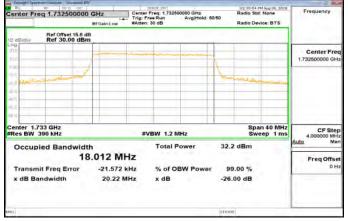
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Band4 20MHz QPSK 100 0 LowCH20050-1720

RL	g 1.720000000		Center F Trig: Fre	Center Freq: 1,720000000 GHz Trig: Free Run Avg Hold: 50/50 #Atten: 30 dB				MAag 06, 2018 d: None vice: BTS	Frequency
10 dB/div									
21.0 10.0									Center Free 1.720000000 GH
0.000 10.0	- martine					The			
0 0. 010									
60.0 60.0			-						
Center 1.72 Res BW 3		-	#VI	BW 1.2 N	NHZ		Spa Sw	an 40 MHz eep 1 ms	CF Ste 4.000000 MH
Occupie	ed Bandwidt	h .969 MH	17	Total P	ower	32.	3 dBm		Auto Ma
Transmit x dB Ban	Freq Error	40.167 k 20.16 M	Hz	% of O x dB	BW Power		9.00 % .00 dB		0H
KG .						10AB	25		

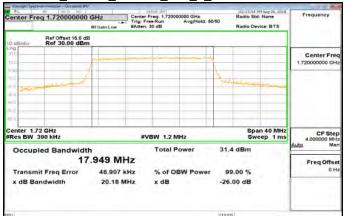
Band4_20MHz_QPSK_100_0_MidCH20175-1732.5



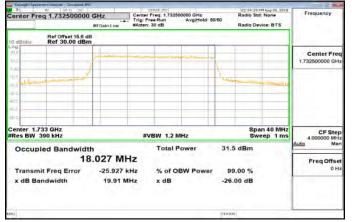
Band4_20MHz_QPSK_100_0_HighCH20300-1745

Center Fre	eq 1.745000000	ig: Free Run atten: 30 dB	AvgiHold: 5	0/50	Radio Device: BTS		Frequency	
10 dB/div								
39.0 10,0								Center Freq 1.745000000 GHz
0.000 V0.0	mannet				L. Constant		- Are	
30 0. Aŭ 1			_					
40.0 40.0								
Center 1.7 #Res BW			#VBW 1.2	MHz	-		an 40 MHz reep 1 ms	CF Step 4.000000 MHz
Occup	led Bandwidt		Total	Power	32.2	2 dBm		Auto Man
	18	.079 MHz						Freq Offset
Transm	it Freq Error	12.714 kHz	% of C	BW Power	99	.00 %		0 Hz
x dB Ba	indwidth	20.11 MHz	x dB		-26.	00 dB		
enc)					TATU	5		

Band4_20MHz_16QAM_100_0_LowCH20050-1720



Band4_20MHz_16QAM_100_0_MidCH20175-1732.5



Band4_20MHz_16QAM_100_0_HighCH20300-1745

Keywatt Seat	train Analyzer - Occupied BW				-				22.2	
	eq 1.745000000	GHz MFGain:Low	Center Freq: 1,745000000 GHz Trig: FreeRun Avg Hold:>50/50 #Atten: 30 dB				Radio Device: BTS		Frequency	
10 dB/div	Ref Offset 15.6 dB Ref 30.00 dBm									
10,0 10,0 10,0									Center Freq 1.745000000 GHz	
0.00 100 -200	and the second					1	-	-		
-30 0. 										
-10.0 -60.0										
Center 1.7 #Res BW			#VB	W 1.2 N	IHz			an 40 MHz /eep 1 ms	CF Step 4.000000 MHz	
Occup	led Bandwidt			Total P	ower	31	.5 dBm		Auto Man	
	Transmit Freq Error 35.801 x dB Bandwidth 20.12 M		Hz % of OBW Power				99.00 % -26.00 dB		Freq Offset 0 Hz	
uno l						TAT	us			

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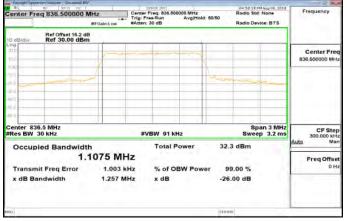
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Band5 1 4MHz QPSK 6 0 LowCH20407-824.7

Center Fre	aq 824.700000 N	IHz MFGain:Low	Center Freq: 824.700000 MHz Trig: Free Run Avg Hold >50/50 #Atten: 30 dB			Radio Device: BTS		Frequency	
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm								
10,0 10,0 0,00		m			-				Center Free 824.700000 MH
1010 2010		4							
49.0. 49.0.									
ed C	-								
Res BW 3			#VB	W 91 kł	łz			pan 3 MHz p 3.2 ms	CF Ster 300.000 kH
Occupi	led Bandwidth			Total P	ower	33	.0 dBm		Auto Mar
	1.1	137 MH	-						Freq Offse
	it Freq Error Indwidth	827 1.263 M		% of OI x dB	BW Power		99.00 % 5.00 dB		OH
al						in PA1	05		

Band5_1_4MHz_QPSK_6_0_MidCH20525-836.5



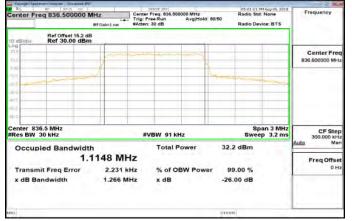
Band5_1_4MHz_QPSK_6_0_HighCH20643-848.3

Center Fr	eq 848.300000 M	HZ MFGain:Low	Trig: Fre	Center Freq: 848.300000 MHz Trig: Free Run AvgiHold: 50/50 #Atten: 30 dB				None ice: BTS	Frequency
10 dB/div	Ref 0ffset 15.2 dB Ref 30.00 dBm								
39,0 10,0 10,0		-			-				Center Freq 848.300000 MHz
9 000 10 11 20 0		4				1			
0 0. 410							-		
60 C.									
enter 84 Res BW			#VE	3W 91 kH	łz			an 3 MHz p 3.2 ms	CF Step 300.000 kHz
Occup	led Bandwidth			Total P	ower	32	.3 dBm		Auto Man
	1.1	139 MH	Ηz						Freq Offset
Transm	nit Freq Error	2.005	Hz	% of O	BW Pow	er s	9.00 %	. A	0 Hz
x dB Ba	andwidth	1.270 N	IHz	x dB		-20	5.00 dB		
ma l						TAT	ne.	-	

Band5_1_4MHz_16QAM_6_0_LowCH20407-824.7

Center Fre	eq 824,700000 M	Tre Tr	ig: Free Run tten: 30 dB	AvgiHold: 50/50	Radio Std: 1 Radio Devic	Vone	Frequency
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm						
10.0		Jos					Center Free 824.700000 MH
0.000 		4		1			
-0 0. 401						_	
-40.0 -60.0							-
Res BW			#VBW 91 k	Hz		3.2 ms	CF Step 300.000 kH
Occup	led Bandwidth		Total I	Power	31.6 dBm		Auto Mar
		137 MHz					Freq Offse
	lit Freq Error Indwidth	1.110 kHz 1.358 MHz	% of C x dB	BW Power	99.00 % -26.00 dB		OH
610					STATUS		

Band5_1_4MHz_16QAM_6_0_MidCH20525-836.5



Band5_1_4MHz_16QAM_6_0_HighCH20643-848.3

RL	HE SEG DC		SENSE OVE			05:02:51	PM Aug 06, 2018	
Center Fr	eq 848.300000 M	HZ IFGain:Low	Center Freq: 840 Trig: Free Run #Atten: 30 dB	300000 MHz AvgiHold	50/50	Radio Ste	t: None vice: BTS	Frequency
0 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm							
.09. 32,0 10,0		1						Center Free 848.300000 MH
		4			weeping			
0 G.								
0.0 20 C			_					
enter 84 Res BW			#VBW 9	I KHZ			oan 3 MHz ep 3.2 ms	CF Ste 300.000 kH
Occup	led Bandwidth	236 MH		I Power	31	.6 dBm		Auto Mar
	it Freq Error andwidth	4.377 kl	tz % ol	OBW Powe		9.00 % 5.00 dB		Freq Offse 0 H
6					10743	05		

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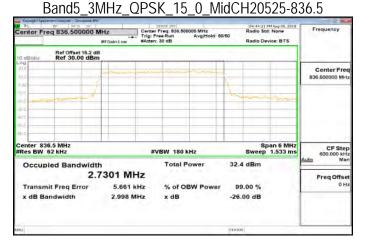
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-	72 25 26 2	476 RV 47.	相 ドマ クトロー



Band5_3MHz_QPSK_15_0_LowCH20415-825.5

Center Fre	ng 825.500000 M	Tri	nter Freq: 825.5 g: Free Run tten: 30 dB	AvgiHold: 50	Radio	27 PM Aug 06, 2018 Std: None Device: BTS	Frequency
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm						
10.0 10.0					S		Center Free 825.500000 MH
0.000 -10.0	hand				Jonne	- Mar - marco	
-10 0. Agʻi							
40.0 60.0			_				
Center 825 #Res BW 6			#VBW 180	kHz		Span 6 MHz p 1.533 ms	CF Ster 600.000 kH
Occupi	ed Bandwidth 2.7	156 MHz	Total	Power	32.2 dBm		Auto Mar
	it Freq Error ndwidth	-3.124 kHz 3.028 MHz	% of 0 x dB	DBW Power	99.00 % -26.00 dB		он
90					TATOS		



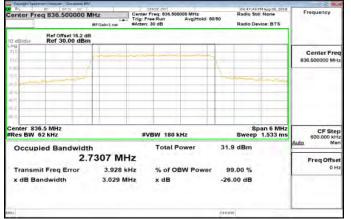
Band5_3MHz_QPSK_15_0_HighCH20635-847.5

Convergite Spect	AP SPID DC			NSF SMT				M Apr 05, 2018	32.00
	eq 847.500000 MH	Hz IFGain:Low		req: 847.500 Run	AvgiHold: 50	0/50	Radio Sto Radio De	t: None	Frequency
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm								
100 100 100				~~~					Center Freq 847 500000 MHz
0.000 	man					L.		min	
40 0. 40 0.									
-60 0.									
								an 6 MHz 1.533 ms	CF Step 600.000 kHz
Occup	led Bandwidth			Total P	ower	32.	6 dBm		Auto Man
	2.7	286 MH	z						Freq Offset
Transm	it Freq Error	3.761 ki	Hz	% of O	BW Power	91	9.00 %		0 Hz
x dB Ba	Indwidth	3.030 M	Hz	x dB		-26	.00 dB		
(Inc.						TATO	s		

Band5_3MHz_16QAM_15_0_LowCH20415-825.5

Center Fre	aq 825.500000 M	IHZ MFGain:Low	Center Freq. 8 Trig: Free Run #Atten: 30 dB	25.500000 MHz	old >50/50	Radio De		Frequency
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm							
39.0 10.0		-			-			Center Free 825.500000 MH
100	mercond				1			
-20.0 -20.0. -20.0.								
40.0 -00.0								
Center 828 #Res BW (#VBW	180 kHz			an 6 MHz 1.533 ms	CF Step
Occup	ed Bandwidth			tal Power	3	1.9 dBm		Auto Ma
A	1. State 1.	239 MH		Control of		0.0.5		Freq Offse
	it Freq Error ndwidth	-1.863 kl 3.018 Mi		of OBW Po IB		99.00 % 26.00 dB		
00						A105		

Band5_3MHz_16QAM_15_0_MidCH20525-836.5



Band5_3MHz_16QAM_15_0_HighCH20635-847.5

RL	RF SRID DC 1			INSE SHI				PH Aug 06, 2018	-
Center Fre	eq 847.500000 Mi	HZ IFGain:Low	Center Trig: Fr #Atten:		AvgiHold: 50	150	Radio Ste	t: None vice: BTS	Frequency
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm	<u></u>							
30,0 10,0 10,0									Center Free 847.500000 MHz
9.00 101 21.0	-					1			
2010 2010 4010									
10.0 ED 0.				-			-		
enter 84 Res BW			#V	BW 180 k	Hz	-		oan 6 MHz 1.533 ms	CF Step 600.000 kH
Occup	led Bandwidth			Total P	ower	31.	7 dBm		Auto Mar
		334 MH	iz						Freq Offset
	it Freq Error	3.727 ki			BW Power		9.00 %		0 Hz
x dB Ba	Indwidth	3.820 M	Hz	x dB		-26	.00 dB		
nc)						TAR	15		

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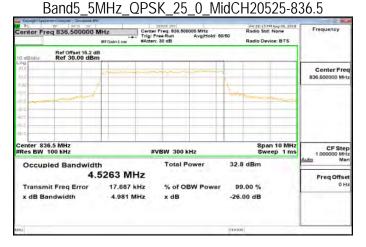
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Band5_5MHz_QPSK_25_0_LowCH20425-826.5

Center Fre	eq 826.500000 M	Tri Tri	standar dari nter Freq: 826.50 g: Free Run tten: 30 dB	AvgiHold>50	Radi	o Std: None o Device: BTS	Frequency
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm				_		
100 100			-				Center Free 826.500000 MH
20.0	man and and				harrison	- in most	
30 G. 40 D							
40.0 eb 0.						-	
Center 826 #Res BW 1			#VBW 300	kHz		Span 10 MHz Sweep 1 ms	CF Step 1.000000 MH
Occupi	ed Bandwidth	370 MHz	Total F	ower	33.0 dBr	n	Auto Mar
	it Freq Error ndwidth	5.086 kHz 5.000 MHz	% of O x dB	BW Power	99.00 ⁴ -26.00 d		Freq Offse
eq.					17A105		



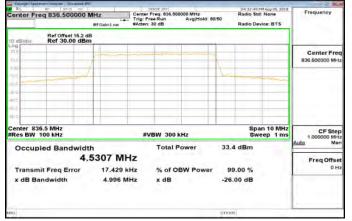
Band5_5MHz_QPSK_25_0_HighCH20625-846.5

Center Fre	eq 846.500000 M	HZ NFGain:Low			AvgiHold: 50	150	Radio St	PH Aug 06, 2018 d: None evice: BTS	Frequency
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm					_			
39,0 10,0 								-	Center Freq 846.500000 MHz
9.000 V0.0 29.0	minut					Buc			
-30 0. 40 0	_								
-60 0.									
Center 846.5 MHz #Res BW 100 kHz #VBW 300 kHz								an 10 MHz veep 1 ms	CF Step 1.000000 MHz
Occup	led Bandwidth			Total P	ower	33.	0 dBm	-	Auto Man
	4.5	523 MH	z						Freq Offset
Transm	it Freq Error	3.282 ki	Hz	% of Of	BW Power	91	9.00 %		0 Hz
x dB Ba	indwidth	5.050 M	Hz	x dB		-26	.00 dB		
eic)						ETA10			

Band5_5MHz_16QAM_25_0_LowCH20425-826.5

Center Fre	eq 826,500000 I	Trig	ter Freq: 826.50 : Free Run ten: 30 dB	AvgiHold: 50	Radio	0:32 PM Aug 06, 2038 5 Std: None 5 Device: BTS	Frequency
10 dB/div	Ref Offset 15.2 dl Ref 30.00 dBn						
10,0 10,0			-				Center Free 826.500000 MH
10.0					10000		
.0 0. 401			_				
-60 0.			-			-	
Center 82 #Res BW		-	#VBW 300	kHz		Span 10 MHz Sweep 1 ms	CF Step 1.000000 MH
Occup	led Bandwidt		Total I	Power	32.4 dBn	n	Auto Mar
		5280 MHz					Freq Offse
	lit Freq Error Indwidth	-4.384 kHz 5.221 MHz	% of C x dB	BW Power	99.00 9 -26.00 dl		0 10
enc)					IIVA105		

Band5_5MHz_16QAM_25_0_MidCH20525-836.5



Band5_5MHz_16QAM_25_0_HighCH20625-846.5

Averaght Seats	esters Analityzer - Occupied BV	V					
	aq 846.500000 I	Tr.	nter Freq: 848,50 Ig: Free Run Itten: 30 dB	AvgiHold >5	R 80/50	14:34:50 PM Aug 06, 2018 adio Std: None adio Device: BTS	Frequency
10 dB/div	Ref Offset 15.2 d Ref 30.00 dBn						
100 100 100							Center Free 846.500000 MH
100			_		have		
20.0 30.0 40.0							
0.0 20 C							
enter 84 Res BW	CF Ste						
Occup	led Bandwidt		Total F	Power	32.6 d	Bm	Auto Ma
	4. It Freq Error Indwidth	5495 MHz 10.660 kHz 6.410 MHz	% of O x dB	BW Power	99.00 -26.00		Freq Offse 0 H
NO					UTATO5		

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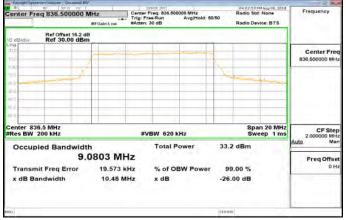
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Band5_10MHz_QPSK_50_0_LowCH20450-829

Center Freq 829.000000		Center Freq: 829.0 Trig: Free Run #Atten: 30 dB	AvgiHold: 50	Radio S	Std: None Device: BTS	Frequency
10 dB/div Ref 30.00 dB	n.					
10.0	hand	an an				Center Free 829.000000 MHz
		_		- Compression	and the second	
-0 0. 40 0						
40.0 60.0		_			-	
Center 829 MHz Res BW 200 kHz		#VBW 620) kHz		pan 20 MHz weep 1 ms	CF Ster 2.000000 MH
Occupied Bandwid			Power	32.3 dBm		Auto Mar
	0975 MH					Freq Offse
Transmit Freq Error x dB Bandwidth	-17.896 kH 10.54 MH		OBW Power	99.00 % -26.00 dB		0.00
на				INATOS		

Band5_10MHz_QPSK_50_0_MidCH20525-836.5



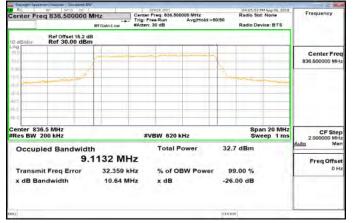
Band5_10MHz_QPSK_50_0_HighCH20600-844

Center Fre	eq 844,000000 M	IHZ MFGain:Low			AvgiHold: 50	450	Radio St	PM Aug 06, 2038 d: None rvice: BTS	Frequency
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm			_					
39,0 10,0 0,00									Center Freq 844,000000 MHz
20.0	- A					24		~	
-30 0. -40 ft									
-60 0									
Res BW			#VI	BW 620 H	Hz			an 20 MHz reep 1 ms	CF Step 2.000000 MHz
Occup	led Bandwidth	1		Total P	ower	32.7	dBm		Auto Man
	9.1	100 MH	z						Freq Offset
Transm	it Freq Error	-5.953 k	Hz	% of O	BW Power	99	.00 %		0 Hz
x dB Ba	indwidth	10.61 M	Hz	x dB		-26.	00 dB		
(H)()						=TA105			

Band5_10MHz_16QAM_50_0_LowCH20450-829



Band5_10MHz_16QAM_50_0_MidCH20525-836.5



Band5_10MHz_16QAM_50_0_HighCH20600-844

Coperation Speech	HART ANNUAL OCCUPIES IN				-				
	aq 844.000000 M	IHZ MFGain:Low		eq: 844.000 e Run 0 dB	AvgiHold: 50	x 50	Radio St	d: None vice: BTS	Frequency
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm								
10,0 10,0 10,0									Center Freq 844.000000 MHz
20.0						Aus	-	5	
-30 G. -40 D. -40 D									
-ED 0.									
Res BW			#VE	SW 620	kHz			an 20 MHz reep 1 ms	CF Step 2.000000 MHz
Occup	led Bandwidth			Total F	ower	32.6	dBm		Auto Man
	9.1	727 MH	z						Freq Offset
	it Freq Error	8.201 k	Hz	% of O	BW Power	99	.00 %		0 Hz
x dB Ba	ndwidth	11.86 M	Hz	x dB		-26.	00 dB		
ARICI						ITA105			

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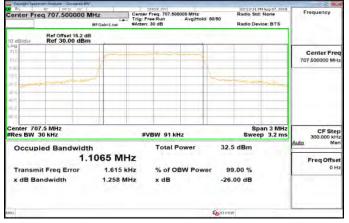
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Band12_1_4MHz_QPSK_6_0_LowCH23017-699.7

Center Fre	NU SND DC 9q 699.700000 M	IHZ MFGain:Low			AvgiHold: 5	50/50	Radio Der		Freq	uency
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm									
10,0		1-								nter Fred
0.000 		and the second sec			1			-		
40 0. 40 0										
40.0 60.0						_	-			
Center 699 #Res BW 3			#VI	BW 91 KH	łz			an 3 MHz p 3.2 ms		CF Step
Occupi	ed Bandwidth			Total P	ower	32.1	1 dBm		Auto	Mar
	1.1	119 MH	z						Fr	eq Offset
	it Freq Error ndwidth	-1.615 k 1.273 M		% of Of x dB	BW Power		9.00 % .00 dB			0 Ha
enci i						Contarts of	5			

Band12_1_4MHz_QPSK_6_0_MidCH23095-707.5



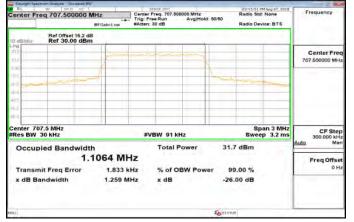
Band12_1_4MHz_QPSK_6_0_HighCH23173-715.3

RL	10 50 0 DC		enter Freg: 715.30	0000 884		Radio Std	M Aug 07, 2018	Frequency
Center Fre	eq 715.300000 MH		rig: Free Run Atten: 30 dB	AvgiHol	d: 60/60	Radio Dev		Consult.
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm	4						
32.0 10.0		1		-				Center Freq 715.300000 MHz
0.000 10.0	-				1-			
40.0. 40.0								
40.0 60.0								
Center 71 Res BW	5.3 MHz 30 kHz	-	#VBW 91 k	Hz			an 3 MHz p 3.2 ms	CF Step 300.000 kHz
Occup	led Bandwidth		Total I	ower	32	.5 dBm		Auto Man
	1.11	82 MHz						Freq Offset
	nit Freq Error	1.500 kHz		BW Pow		99.00 %		0 Hz
x dB Ba	andwidth	1.278 MHz	x dB		-20	6.00 dB		
and 1					Destat	IN IS		

Band12_1_4MHz_16QAM_6_0_LowCH23017-699.7

Center Free	g 699.700000 MH	Z Gain:Low			AvgiHolo	1: 50/50	Radio Std Radio Dev		Frequency
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm	-							
10.0		mira			in				Center Free 699.700000 MHz
0.001 -10.0						Intern		-	
-30 0.									
10.0 FD 0									
Center 699 Res BW 3			#VE	SW 91 kH	łz		Sp Swee	an 3 MHz p 3.2 ms	CF Step 300.000 kH
Occupie	ed Bandwidth	3		Total P	ower	31.	6 dBm		Auto Mar
		01 MH							Freq Offse
Transmi x dB Bar	t Freq Error ndwidth	2.544 kH 1.347 MH		% of OI x dB	BW Pow		9.00 % 5.00 dB		0.00
NC						Desian	05		

Band12_1_4MHz_16QAM_6_0_MidCH23095-707.5



Band12_1_4MHz_16QAM_6_0_HighCH23173-715.3

Copyright Spect	NE SING DC		5	car awr			January and a	M Apg 07, 2010	22.0
	q 715.300000 MH	Sain:Low		eq: 715,300 Run	AvgiHold	50/50	Radio Std	None	Frequency
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm								
10,0 10,0 10,0									Center Free 715.300000 MH
0.000 -2010						1-			
-30 0. -40 0.									
-60 0.									
Res BW			#VB	W 91 kł	łz			an 3 MHz p 3.2 ms	CF Step 300.000 kH
Occup	ed Bandwidth			Total P	ower	31	.7 dBm		Auto Mar
	1.11	69 MH	z						Freq Offse
	it Freq Error ndwidth	1.245 ki 1.349 Mi		% of OI x dB	BW Powe		99.00 % 5.00 dB		OH
49G						Co STAT	05		

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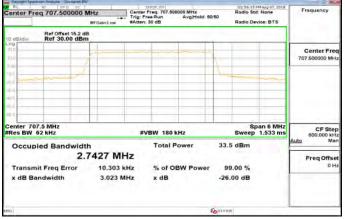
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T	灣檢	微和	夜月	27571	月限	~	티	



Band12 3MHz QPSK 15 0 LowCH23025-700.5

Center Fre	eq 700.500000 M		Center Freq: 7 Trig: Free Run #Atten: 30 dB	00.500000 MHz	50/50	Radio St	PH Aug 07, 2018 d: None wice: BTS	Frequency
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm							
100 100 100		, in the second se						Center Fred 700.500000 MHz
10.0 20.0	-		-		he			
40 0. 40 0								
40.0 60.0			-		-			
Center 700 Res BW			#VBW	180 kHz			pan 6 MHz 1.533 ms	CF Step 600.000 kH
Occup	led Bandwidth	236 MH		tal Power	32.8	8 dBm		Auto Mar
	it Freq Error Indwidth	22 F 3.035 MF	lz % (of OBW Power B		9.00 % .00 dB		Freq Offse 0 H
ia l					Contante.	5		

Band12_3MHz_QPSK_15_0_MidCH23095-707.5



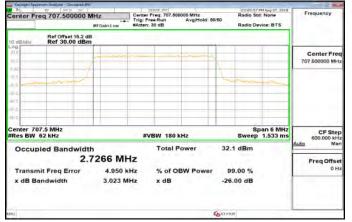
Band12_3MHz_QPSK_15_0_HighCH23165-714.5

Center Fre	eq 714.500000 M	HZ NFGain:Low			AvgiHold	50/50	Radio St	MADy 07, 2018 d: None vice: BTS	Frequency
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm	-							
310									Center Freq 714.500000 MHz
20.0	l	-				1			
30.0. 40.0							_		
-60 0.1							-		
Center 71			#VI	BW 180 k	Hz			oan 6 MHz 1.533 ms	CF Step 600.000 kHz
Occup	led Bandwidth		-	Total P	ower	33.	3 dBm		<u>Auto</u> Mar
	2.7 hit Freq Error andwidth	-1.169 kl 3.492 MH	Hz	% of Of x dB	BW Powe		9.00 %		Freq Offset 0 Hz
enci i						Contat.	05		

Band12 3MHz 16QAM 15 0 LowCH23025-700.5

RL	q 700.500000		Center Freq: 700.500000 MHz Trig: Free Run Avg Hold>50/50 #Atten: 30 dB				Radio Sto		Frequen	cy
10 dB/div	Ref Offset 15.2 d Ref 30.00 dBr									
210 10.0									Cente 700.50000	
0.00 10.0 20.0			-			1				
30 G. 40 D										
40.0 60.0										
Center 700. #Res BW 6		-	#VBW	180 kH	z	1		an 6 MHz 1.533 ms	600.0	
Occupie	ed Bandwidt	th 7314 MH		otal Po	wer	32.3	dBm		Auto	Mar
Transmit x dB Ban	Freq Error	1.211 kl 3.068 Mi	Hz %	of OBV	V Power		0.00 %		Freq	Offse 0 H
inci i					1	Contatus				_

Band12_3MHz_16QAM_15_0_MidCH23095-707.5



Band12_3MHz_16QAM_15_0_HighCH23165-714.5

Repetitions	BP SPIG DC I	1	1 30	NGR STATE			03:05:271	PM Apg 07, 2018	202.84
Center Fre	9 714.500000 Mi	HZ IFGain:Low		eq: 714.500	AvgiHold: 5	0/50	Radio Sto	Frequency	
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm			_					
10,0									Center Freq 714.500000 MHz
0.00 0.00 0.00	man					1			
30 0. Aŭŭ									
40.0 60.0						-	-		
Center 714 #Res BW (#VE	SW 180 K	Hz		Sweep	an 6 MHz 1.533 ms	CF Step 600.000 kHz
Occup	led Bandwidth			Total P	ower	31.	5 dBm		Auto Man
	2.7 It Freq Error Indwidth	341 MH 125 3.105 MI	Hz	% of Of x dB	3W Power		9.00 % .00 dB		Freq Offset 0 Hz
00						Contate.	5		

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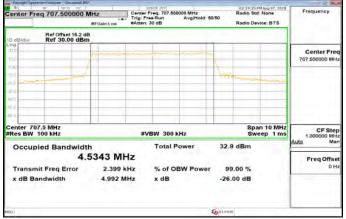
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限公司	ミットロ	



Band12_5MHz_QPSK_25_0_LowCH23035-701.5

Center Fre	eq 701.500000 M	116	Center Freq: 701.5 Trig: Free Run #Atten: 30 dB	AvgiHold: 50	Radio	Std: None Device: BTS	Frequency	
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm							
10,0 10,0	1						Center Free 701.500000 MH	
20.0			_					
40.0. 40.0								
6D C.							= = = =	
Center 70 #Res BW			#VBW 300	kHz		pan 10 MHz weep 1 ms	CF Step 1.000000 MH	
Occup	led Bandwidth 4.5	498 MH		Power	34.2 dBm		Auto Mar	
	it Freq Error Indwidth	-1.597 kH 5.400 MH	tz % of C	BW Power	99.00 % -26.00 dB		0H	
80					Companys			

Band12_5MHz_QPSK_25_0_MidCH23095-707.5



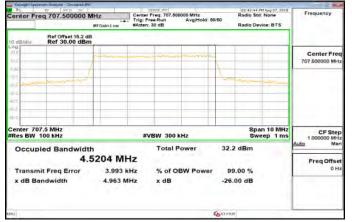
Band12_5MHz_QPSK_25_0_HighCH23155-713.5

Center Fre	eq 713.500000 M	HZ IFGain:Low	Center Freq: 713.500000 MHz Trig: Free Run Avg Hold: 50/50 #Atten: 30 dB				Radio Str Radio De	td: None Frequency evice: BTS		
10 dBrdiv	Ref Offset 15.2 dB Ref 30.00 dBm									
30,0 10,0 									Center Freq 713.500000 MHz	
N 000						and -				
2010 30 0. 40 0										
40.0 60.0								_		
Center 71 Res BW			#V	BW 300 k	Hz			an 10 MHz eep 1 ms	CF Step 1.000000 MH	
Occup	led Bandwidth			Total P	ower	33.5	5 dBm		Auto Man	
	4.5	396 MH	z						Freq Offset	
	it Freq Error	3.718 ki		% of Of	BW Power	99	9.00 %		0 Hz	
x dB Ba	indwidth	5.374 MH	łz	x dB		-26.	00 dB			
						Distante.			-	

Band12_5MHz_16QAM_25_0_LowCH23035-701.5

Center Fre	q 701,500000	MHz MFGain Low	Center	Freq: 701.500 ree Run 30 dB	AvgiHold >5	50/50 Radio Std: None 50/50 Radio Device: BTS			Frequency
10 dB/div Ref 30.00 dBm									
30,0 10,0		1							Center Free 701.500000 MH
9.00 10.0		1				1			
40 Q.									
40.0 60.0				-			-	_	
enter 701 Res BW 1			#1	/BW 300 P	Hz			an 10 MHz eep 1 ms	CF Ste 1.000000 MH
Occupi	ed Bandwid			Total P	ower	32.	0 dBm		Auto Ma
	and the second s	.5218 MH					9.00 %		Freq Offse
x dB Ba	it Freq Error ndwidth	1.476 k 4.979 M		x dB	BW Power		9.00 % .00 dB		
0						D. STATE	15		

Band12_5MHz_16QAM_25_0_MidCH23095-707.5



Band12_5MHz_16QAM_25_0_HighCH23155-713.5

Avergitt Spectr	W Stern Analyzer - Occupted BW						Long drives	PM Apg 07, 2010	32.0
	q 713.500000 MI	12 IFGain:Low	Center Fre Trig: Free #Atten: 30	q: 713.500 Run	AvgiHold: 50	Radio Std: None		Frequency	
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm					_			
310 100									Center Free 713.500000 MHz
10.00 20.0	manuel		_			-			
30 Q.				_					
40.0 60.0			_						
Center 713 Res BW 1			#VB	N 300 H	Hz	-		an 10 MHz Jeep 1 ms	CF Step 1.000000 MH
Occupi	ed Bandwidth	204 MU		Total P	ower	31.	9 dBm		Auto Mar
	4.3 it Freq Error ndwidth	261 MH 4.912 ki 5.373 Mi	Hz :	% of O x dB	BW Power		9.00 % .00 dB		Freq Offset 0 Hz
NO 1						Contratto	15		

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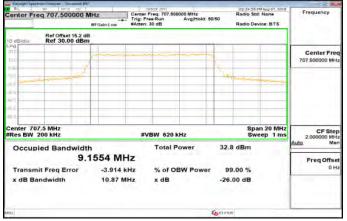
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台	満檢:	微君	夜り	文份	有月	え公	司



Band12_10MHz_QPSK_50_0_LowCH23060-704

Center Fre	aq 704,000000 M	- Trig	ter Freq: 704.000 Free Run ten: 30 dB	AvgiHold: 50	Ra	2-24:01 PM Aug 07, 2018 Idio Std: None Idio Device: BTS	Frequency	
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm							
100 100 000							Center Freq 704.000000 MHz	
20 ()	-							
-10 0. AUT								
40.0 60.0								
Res BW			#VBW 620	kHz		Span 20 MHz Sweep 1 ms	CF Step 2.000000 MHz	
Occup	ied Bandwidth 9.0	976 MHz	Total F	ower	32.5 dl	Bm	Auto Man	
	it Freq Error Indwidth	431 Hz 10.51 MHz	% of O x dB	BW Power	99.00 -26.00		0 Hz	
ma l					Converses.			

Band12_10MHz_QPSK_50_0_MidCH23095-707.5



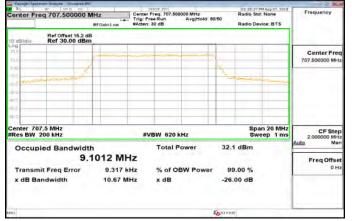
Band12_10MHz_QPSK_50_0_HighCH23130-711

Center Fre	aq 711.000000 N	MFGain:Low	Trig: Free	nter Freq: 711.000000 MHz g: Free Run AvgiHold: 50/50 tten: 30 dB			Radio St	d: None	Frequency
Ref Offset 15.2 dB 10 dB/div Ref 30.00 dBm									
110 100 100				~					Center Freq 711.000000 MHz
20.0	man					×	-	-	
40.0. 40.0							-		
-60 0			-						
Res BW			#VB	W 620 P	Hz		Spi	an 20 MHz eep 1 ms	CF Step 2.000000 MHz
Occup	led Bandwidth			Total P	ower	32.	8 dBm		Auto Man
	9.0	0663 MH	z						Freq Offset
	it Freq Error	10.092 kH			BW Power		9.00 %		0 Hz
x dB Ba	indwidth	10.63 MH	łz	x dB		-26	.00 dB		
						Charles The	15		-

Band12_10MHz_16QAM_50_0_LowCH23060-704

Center Fre	g 704.000000 N	IHZ MFGainLow		req: 704.000 e Run 10 dB	000 MHz AvgiHold: 50	INX Radio Std: None giHold: 50/50 Radio Device: BTS			Frequency	
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm									
34,0 10,0									Center Free 704.000000 MH	
10.0	a formation of the second seco					-	~			
400. 400.										
60 0.										
Center 704 #Res BW 2		-	#VE	SW 620 k	Hz		Spa	an 20 MHz eep 1 ms	CF Step 2.000000 MHz	
Occupi	ed Bandwidt			Total P	ower	31.9	dBm		Auto Mar	
		0877 MH							Freq Offse	
Transmi x dB Bar	t Freq Error ndwidth	-1.493 k 10.60 M		% of Of x dB	3W Power	99. -26.0	00 % 0 dB		0.00	
má l						Contatus				

Band12_10MHz_16QAM_50_0_MidCH23095-707.5



Band12_10MHz_16QAM_50_0_HighCH23130-711

Average Seats	NE SING DC		i sunsu	and			107-70-551	PM Aug 07, 2010	328
Center Fre	q 711.000000 M	HZ IFGain:Low	Center Free Trig: Free R #Atten: 30 c	: 711.000 tun	AvgiHold: 50	¥50	Radio Sto		Frequency
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm								
10.0 10.0									Center Freq 711.000000 MHz
0.000				_		124		~	
-000 -000									
40.0 60.0									
Center 71 Res BW			#VBM	620 k	Hz	_		an 20 MHz eep 1 ms	CF Step 2.000000 MH
Occup	ed Bandwidth	776 MH		otal P	ower	32.7	dBm		Auto Mar
	9.0 It Freq Error ndwidth	19.478 ki 10.54 Mi	Hz 9	6 of OE dB	BW Power		9.00 % 00 dB		Freq Offset 0 Hz
inci inci						Contante	5		

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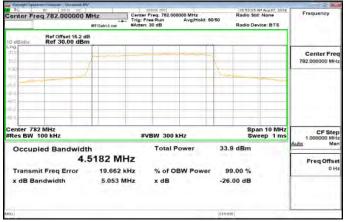
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Band13_5MHz_QPSK_25_0_LowCH23205-779.5

Center Fre	ng 779.500000 N	The The	ig: Free Run	AvgiHold: 50	/50	Radio Std: None Radio Device: BTS	Frequency
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm						
39,0 10,0							Center Free 779.500000 MH
0.000 (0.0	- mand				Ser.		-
400	<i></i>						
eb 0.							
Center 779 Res BW 1			#VBW 300	kHz		Span 10 Mi Sweep 1 n	1.000000 MH
Occupi	ed Bandwidth		Total I	Power	32.8	dBm	Auto Ma
	4.5 it Freq Error ndwidth	30.170 kHz 5.256 MHz	% of O	BW Power	99. -26.0	00 % 0 dB	Freq Offse 0 H
enci i					TATUS		



Band13_5MHz_QPSK_25_0_MidCH23230-782

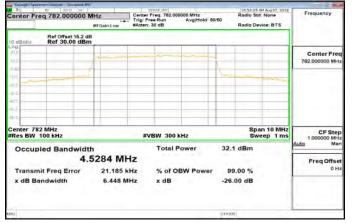
Band13_5MHz_QPSK_25_0_HighCH23255-784.5

RL .	Bir Sel 18	DC (INSU JUT			10:54:12	AM Aug 07, 2018	Frequency
Center Fre	eq 784.500		HZ IFGain:Low	Center Freq: 784.500000 MHz Radio Std: None Trig: Free Run Avg Hold: 50/50 #Atten: 30 dB Radio Device: BTS						riequency
Ref Offset 15.2 dB 10 dBidly Ref 30.00 dBm										
39.0 10,0							-		_	Center Freq 784.500000 MHz
0.000 V0.0	-1	and .					1			
-30 0. -4011	-									
40.0 40.0								-		
Center 78- #Res BW				#V	BW 300 H	Hz			an 10 MHz veep 1 ms	CF Step 1.000000 MHz
Occup	led Band	width			Total P	ower	33.	1 dBm		Auto Man
		4.5	285 MH	z						Freq Offset
Transm	it Freq Err	ror	-4.939 k	Hz	% of O	BW Power	91	9.00 %		0 Hz
x dB Ba	indwidth		5.249 M	Hz	x dB		-26	.00 dB		
enc)							TATE	IS		

Band13 5MHz 16QAM 25 0 LowCH23205-779.5

RL	g 779.500000 M		Sanda avri Center Freq: 779.50 Trig: Free Run #Atten: 30 dB	0000 MHz AvgiHold: 50	Radio S	td: None evice: BTS	Frequency
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm						
210 10.0							Center Free 779.500000 MH
9.00 (0.0 20.0	- and				making		
-0.0. 40.0	4						
40.0 60.0							
Center 779 #Res BW 1			#VBW 300	kHz		an 10 MHz weep 1 ms	CF Ster 1.000000 MH
Occupi	ed Bandwidt		Total F	ower	32.0 dBm		Auto Mar
		5476 MH					Freq Offse
	it Freq Error	33.894 kH	z % of O	BW Power	99.00 %		OH
x dB Ba	ndwidth	6.158 MH	z xdB		-26.00 dB		
610					TATOS		

Band13_5MHz_16QAM_25_0_MidCH23230-782



Band13_5MHz_16QAM_25_0_HighCH23255-784.5

RL	- W 2010 DC	1		1942.125			Radio St	AM Aug 07, 2018	Frequency
Center Fre	eq 784.500000 M	HZ IFGain:Low	Trig: Free Run AvgiHold: 50/50					vice: BTS	(coducine)
0 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm								
.00. 30,0 10,0									Center Free 784.500000 MH
100						1		-	
10 0. 10 0.									
10.0 30 0.				_					
enter 78 Res BW			#VE	W 300 K	Hz			an 10 MHz eep 1 ms	CF Step 1.000000 MH
Occup	led Bandwidth	220 MH	-	Total P	ower	32.	5 dBm		Auto Mar
	4.0 It Freq Error Indwidth	-6.216 k 5.186 M	Hz	% of Of x dB	BW Power		9.00 % .00 dB		Freq Offse 0 H
						IN FAIL			

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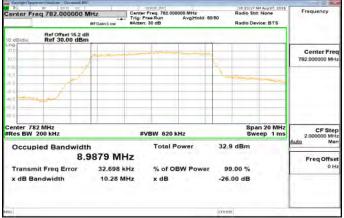
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Band13_10MHz_QPSK_50_0_LowCH23230-782

Center Freq 782		Hz MFGain:Low	Center Fre Trig: Free #Atten: 30	Run	AvgiHold: 50	0/50	Radio Device: BTS		Frequency
10 dB/div Ref	30.00 dBm			_		_			
20,0 10,0			-						Center Free 782,000000 MH
9.90 90.0 20.0	J.L.					INFLA?		man	
10 0. 10 0.	t i							_	
90.0 60.0									_
Center 782 MHz Res BW 200 kH	z		#VB	W 620 H	Hz		Sp	an 20 MHz /eep 1 ms	CF Stej 2.000000 MH
Occupied B				Total P	ower	33.0	dBm		Auto Mar
		011 MH	-			1.02			Freq Offse
Transmit Free x dB Bandwic		34.169 ki 10.38 Mi		% of O x dB	BW Power		00 % 10 dB		0.00
na						STATUS			



Band13_10MHz_QPSK_50_0_MidCH23230-782

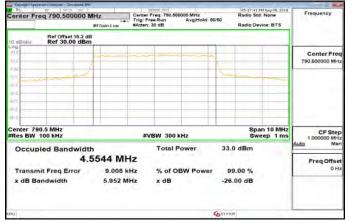
Band13_10MHz_QPSK_50_0_HighCH23230-782

Kayweght Speaker	Ar SING DC	W.	i sinsi				110.10.00.0	M Aug 07, 2018	22
Center Fre	MHz	Center Freq: 782.000000 MHz Trig: Free Run AvgiHold: 50/50 #Atten: 30 dB				Radio Std: None Radio Device: BTS		Frequency	
10 dB/div									
100 100		-	-			2			Center Free 782.000000 MHz
90.0 20.0	- Jan Harris					2-			
40.0	and the			-					
60 0.				_					
Res BW 2			#VBV	V 620 k	Hz			eep 1 ms	CF Step 2.000000 MH
Occupi	ed Bandwid			Total P	ower	33.2	2 dBm		Auto Mar
	9.	0222 MH	z						Freq Offset
	t Freq Error	25.018 ki		6 of Of	SW Power	99	9.00 %		OH
x dB Bar	ndwidth	10.32 M	Hz >	dB		-26.	00 dB		
600						ITA105	5		

Band13_10MHz_16QAM_50_0_MidCH23230-782



Band14_5MHz_QPSK_25_0_LowCH23305-790.5



Band14_5MHz_QPSK_25_0_MidCH23330-793

Constitutions	HI COLUDIES BW		1.00	NSF SMT			les. de la la	PM App 00, 2010	22.00
Center Fre	9793.000000 M	Hz IFGain:Low	Center Freq: 793.000000 MHz				Radio Std: None Radio Device: BTS		Frequency
10 dBrdiv									
10,0 10,0 10,0					h				Center Freq 793.000000 MHz
10.000 ABID -2010			_			100		- Int	
-200 -200									
-60 0.								_	
Center 79			#VI	BW 300 H	Hz			an 10 MHz eep 1 ms	CF Step
Occup	led Bandwidth			Total P	ower	32.9	dBm		Auto Man
	4.5 It Freq Error Indwidth	412 MH 1.880 k 5.871 M	Hz	% of O x dB	BW Power		9.00 % 00 dB		Freq Offset 0 Hz
eig)						Contactus			

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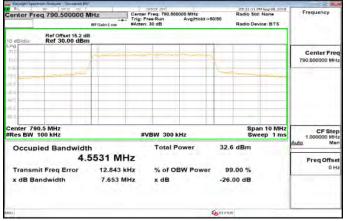
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Band14_5MHz_QPSK_25_0_HighCH23355-795.5

Center Fre	q 795.500000 M	Hz	Center Freq: 795,500000 MHz Trig: Free Run AvgiHold: 50/50				Radio Std: None Radio Device: BTS		Frequency		
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm	Ref Offset 15.2 dB									
10,0 10,0				-					Center Free 795.500000 MH		
9.900 10.00 20.0	- mark					5					
30 G. AG D			_								
40.0 60.0											
Center 795 Res BW 1			#VB	V 300 H	Hz			an 10 MHz eep 1 ms	CF Step 1.000000 MH		
Occupi	ed Bandwidth			Total P	ower	33.3	dBm		Auto Mar		
Transmi x dB Ba	t Freq Error	-9.711 ki 6.624 Mi	łz ł	% of Ol x dB	BW Power		.00 % 00 dB		Freq Offse 0 H		
						Convertes.					

Band14_5MHz_16QAM_25_0_LowCH23305-790.5



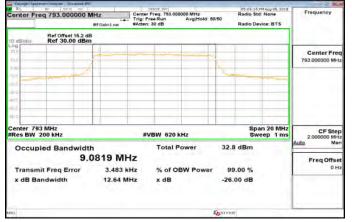
Band14 5MHz 16QAM 25 0 MidCH23330-793

Eventer Seatt	NP OCCUPIES BY		i data				28-17-14	PM Apg 08, 2018	
Center Fre	9 793.000000 N	MFGain Low	Center Freq: 793.000000 MHz Trig: Free Run Avg Hold: 50/50 #Atten: 30 dB				Radio Std: None Radio Device: BTS		Frequency
10 dB/div									
10.0 10.0									Center Free 793.000000 MHz
N00			-	_		2			
30 0. 40 0									
40.0 e0.0			_					_	
enter 793 Res BW 1			#VB	W 300 H	Hz			an 10 MHz eep 1 ms	CF Step
Occupi	led Bandwidt			Total P	ower	32	7 dBm		Auto Mar
		5654 MH							Freq Offse
	it Freq Error	414 1			BW Power		9.00 %		0 H
x dB Ba	ndwidth	7.552 MH	łz	x dB		-26	i.00 dB		
eo						Contrat	us		-

Band14 5MHz 16QAM 25 0 HighCH23355-795.5

Center Free	q 795.500000 M		Center Freq: Trig: Free Ro #Atten: 30 df	795.500000 MHz AvgiHold	50/50	Radio Std: None Radio Device: BTS		Frequency
10 dB/div								
310 10.0			~~~~		-			Center Free 795.500000 MH
10.000 ABD			_		Le			
-0.0 -0.0								
-10.0 -60.0			_	_				
Center 795. #Res BW 1			#VBW	300 kHz			n 10 MHz ep 1 ms	CF Step 1.000000 MH
Occupie	ed Bandwidth			otal Power	32.	6 dBm		Auto Mar
		5798 MH	2					Freq Offset
Transmit	t Freq Error	-11.378 kH	łz %	of OBW Powe	er 9	9.00 %		0 Ha
x dB Ban	ndwidth	9.211 MH	iz x	dB	-26	.00 dB		
eio					Contan	05		

Band14_10MHz_QPSK_50_0_LowCH23330-793



Band14 10MHz QPSK 50 0 MidCH23330-793

Average Spect	NF SHIT DOCUDER	W	a singli du	-		Ins. contract	PM Apg 08, 2018	32.00
	eq 793.000000	MHz MFGain:Low	Center Freq: 75 Trig: Free Run #Atten: 30 dB		50/50	Radio St		Frequency
10 dBrdiv	Ref Offset 15.2 c Ref 30.00 dB							
10,0 10,0 10,0					-			Center Freq 793.000000 MHz
1000 1000 -2000	an we				Real			
-10 G								
-60 C								
Center 79 #Res BW			#VBW 6	20 kHz			an 20 MHz /eep 1 ms	CF Step 2.000000 MHz
Occup	led Bandwid		Tot		Auto Man			
	9 It Freq Error	.0889 MH -943 11.27 M	Hz % c	OBW Powe		9.00 %		Freq Offset 0 Hz
A 00 00		. 1.27 m			-20			
CON.					Conten	us		

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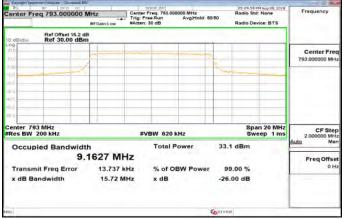
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百八家	成れてなな	2777 /9 /1	x 2 - 5



Band14 10MHz QPSK 50 0 HighCH23330-793

Ref Offset 15.2 dB		ten: 30 dB	AvgiHold: 5	0/50	Radio Std: None Radio Std: None Radio Device: BTS		Frequency
Ref 30.00 dBm							
	- mar						Center Free 793.000000 MH
and the				Salt			
		_			-		
MHz 00 kHz		#VBW 620) kHz	_			CF Step 2.000000 MH
a to the press of the day of		Total	Power	32.	7 dBm		Auto Mar
9.0 It Freq Error ndwidth	12.516 kHz 12.27 MHz	% of 0 x dB	OBW Power				Freq Offse 0 H
	oo kHz ed Bandwidth 9.0 t Freq Error	oo kHz ed Bandwidth 9.0702 MHz t Freq Error 12.516 kHz	00 KHZ #VBW 620 ed Bandwidth Total 9.0702 MHz Total t Freq Error 12.516 kHz % of 0	00 KHZ #VBW 520 KHZ ed Bandwidth Total Power 9.0702 MHz t Freq Error 12.516 kHz % of OBW Power adwidth 12.27 MHz x dB	MHz #VBW 620 kHz 00 kHz #VBW 620 kHz ed Bandwidth Total Power 32: 9.0702 MHz t Freq Error 12.516 kHz % of OBW Power 91 ndwidth 12.27 MHz x dB -26	MHz Spar 00 kHz #VBW 620 kHz Spar 00 kHz #VBW 620 kHz Swe ed Bandwidth Total Power 32.7 dBm 9.0702 MHz t Freq Error 12.516 kHz % of OBW Power 99.00 %	MHz span 20 MHz 00 kHz svBW 620 kHz Span 20 MHz 80 kHz sweep 1 ms ed Bandwidth Total Power 32.7 dBm 9.0702 MHz t Freq Error 12.516 kHz % of OBW Power 99.00 % ndwidth 12.27 MHz x dB -26.00 dB

Band14_10MHz_16QAM_50_0_MidCH23330-793



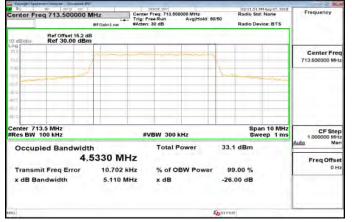
Band17_5MHz_QPSK_25_0_LowCH23755-706.5

Center Fr	eq 706.500000 M	HZ NFGain:Low	Center F	req: 706.500 • Run 0 dB	AvgiHold: 50	0/50	Radio St	MANG 07, 2038 d: None wice: BTS	Frequency	
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm	-		_			_			
39,0 10,0 10,0					and the stand second				Center Free 706.500000 MHz	
00	and and					1	-			
0 0. 470										
60.0		-								
enter 70 Res BW			#VE	300 BW 300 B	KHZ		Sp	an 10 MHz reep 1 ms	CF Step 1.000000 MHz	
Occup	ied Bandwidth			Total P	ower	32	9 dBm		Auto Man	
	4.5	398 MH	łz						Freq Offset	
Transm	hit Freq Error	5.419 k	Hz	% of O	BW Power	9	9.00 %		0 Hz	
x dB Ba	andwidth	4.985 M	Hz	x dB		-26	5.00 dB			
						Co SIAT	15			

Band17 5MHz QPSK 25 0 MidCH23790-710

RL	M 38 0 DC 1 89 710.000000 M	WHz			AvgiHold 5	0/50	Radio St	PH Aug 07, 2018 d: None rvice: BTS	Frequency
Ref Offset 15.2 dB 10 dB/div Ref 30.00 dBm									
10.0			- designed						Center Fred 710.000000 MHz
9.000 20.0	-					12			
40.0. 40.0									
40.0 60.0									
Res BW			#VB	W 300 H	KHZ		Sw	an 10 MHz reep 1 ms	CF Step 1.000000 MH
Occup	led Bandwidt			Total P	ower	32.9	dBm		Auto Mar
		5311 MH							Freq Offse
	nit Freq Error Andwidth	11.722 kH 4.993 MH		% of O x dB	BW Power		9.00 % 00 dB		
610						Cost ATUS	5		

Band17_5MHz_QPSK_25_0_HighCH23825-713.5



Band17_5MHz_16QAM_25_0_LowCH23755-706.5

Center Fre	aq 706,500000 M	HZ MFGain:Low	Center Freq: 708.500000 MHz Radio Std: None						Frequency	
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm	-				_		_		
20.0 10.0		m		and share					Center Freq 706.500000 MHz	
0.000 10.0	month					1	-			
30 G. 40 D										
40.0 60.0				_						
Center 70			#VE	W 300 k	Hz			an 10 MHz eep 1 ms	CF Step	
Occup	ccupied Bandwidth			Total P	ower	32.	2 dBm		Auto Man	
Transm	4.t It Freq Error	1.471 kl		% of OE	BW Power	91	9.00 %		Freq Offset 0 Hz	
x dB Ba	ndwidth	4.950 M	Hz	x dB		-26	.00 dB			
no.						Destatu				

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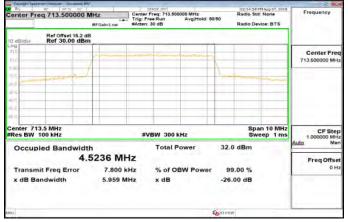
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Band17_5MHz_16QAM_25_0_MidCH23790-710

Center Fre	aq 710.000000 M	Hz #FGain:Low		eq: 710.000 Run 0 dB	AvgiHold: 50	450	Radio Dev		Frequency
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm								
100 100 000					o-riniy-	1			Center Free 710.000000 MH
	- man					1000		n- de-	
40 0									
40.0 80 C.									_
Res BW			#VB	W 300 P	Hz			n 10 MHz eep 1 ms	CF Ste 1.000000 MH
Occup	led Bandwidth 4.5	z	Total P	ower	31.	3 dBm		Auto Ma	
	it Freq Error Indwidth	22.153 ki 4.968 Mi		% of O x dB	BW Power		9.00 % .00 dB		OH
						Contanu	5		

Band17_5MHz_16QAM_25_0_HighCH23825-713.5



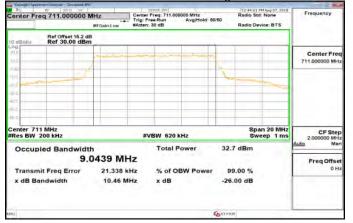
Band17 10MHz QPSK 50 0 LowCH23780-709

RL RL	NF SER DC	1	1 30	NGE OWN			112-42:20	PM Apg 07, 2018	
Center Fre	q 709.000000 M	MHZ MFGain:Low	Center F Trig: Fre #Atten: 3		AvgiHold (0/50	Radio St	d: None vice: BTS	Frequency
10 dB/div	Ref Offset 15.2 dl Ref 30.00 dBm								
10.0					-				Center Freq 709.000000 MHz
0.000 	- mart					1			
-30 0. -40 11									
-60 C									
Center 709 #Res BW 2			#VE	SW 620 1	KHZ			an 20 MHz eep 1 ms	CF Step 2.000000 MHz
Occupi	ed Bandwidt	h		Total Power 32					Auto Man
	9.	0895 MH	z						Freq Offset
Transm	it Freq Error	21.822 k	Hz	% of O	BW Power	9	9.00 %		0 Hz
x dB Ba	ndwidth	10.53 M	Hz	x dB		-26	6.00 dB		
(Inc.)						Costat	05		-

Band17_10MHz_QPSK_50_0_MidCH23790-710



Band17_10MHz_QPSK_50_0_HighCH23800-711



Band17 10MHz 16QAM 50 0 LowCH23780-709

Average Spect	NP Strip Do 1			NGF JWT				PM Apg 07, 2010	32.00
	q 709.000000 N	MFGain:Low		req: 709.000	AvgiHold: 50	0/50	Radio St		Frequency
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm								
10,0 10,0							_		Center Freq 709.000000 MHz
10.00 -20.0	mund								
-10 0. -10 1							_		
-60 0									
Center 709 #Res BW 2			#V	BW 620 H	Hz			an 20 MHz veep 1 ms	CF Step 2.000000 MHz
Occup	ed Bandwidt	ñ		Total P	ower	32.0	dBm		Auto Man
	9.*	1012 MH	z						Freq Offset
Transm	Transmit Freq Error 28.01			% of O	BW Power	99	.00 %		0 Hz
x dB Ba	ndwidth	10.54 M	Hz	x dB		-26.	00 dB		
MING DIR						Contante			-

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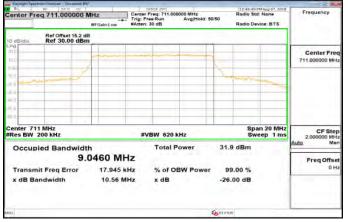
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Band17_10MHz_16QAM_50_0_MidCH23790-710

Center Fre	g 710.000000 N	IHz MFGain:Low	Sankal dirit 112-455-54 PM Au Center Freq: 710.000000 MHz Radio Std: No. Trig: Free Run Avg Hold⇒50/50 #Atten: 30 dB Radio Device:						Frequency
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm								
100 100 100					-			_	Center Freq 710.000000 MHz
20.0 -20.0	mendel					June	~	-	
40 0. 40 0									
40.0 60 C									_
Center 710 Res BW 2			#VE	BW 620 I	kHz			20 MHz 5 1 ms	CF Step 2.000000 MHz
Occupi	ed Bandwidtl 9.(0642 MH	z	Total F	ower	32.0 d	Bm		Auto Mar
Transmi x dB Bar	it Freq Error ndwidth	14.174 ki 10.62 Mi		% of O x dB	BW Power	99.00 -26.00	1.15		0 H2
NG.						Contenus			

Band17_10MHz_16QAM_50_0_HighCH23800-711



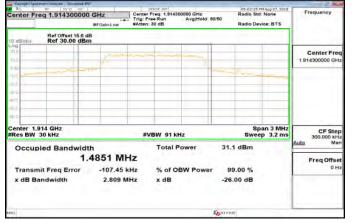
Band25_1_4MHz_QPSK_6_0_LowCH26047-1850.7

Center Fred	1.850700000 GH	Center F Trig: Fre #Atten:		0000 GHz AvgiHold	50/50	Radio Std		Frequency	
10 dB/div	Ref Offset 15.6 dB Ref 30.00 dBm	4		1					
31,0 10,0 0.00		Innin							Center Freq 1.850700000 GHz
NUL Summer									
0 0. 47 0									
60.0 60.0									
enter 1.85 Res BW 30			#V	BW 91 kH	z			an 3 MHz p 3.2 ms	CF Step 300.000 kHz
Occupie	ed Bandwidth	6		Total P	ower	32	0 dBm		Auto Man
		67 MH							Freq Offset
Transmit x dB Ban	Freq Error dwidth	-886 1.900 M		% of Of x dB	3W Powe		9.00 % 5.00 dB	19	0 Hz
						Contat			

Band25_1_4MHz_QPSK_6_0_MidCH26365-1882.5

Center Fre	eq 1.882500000	Radio Std: M Radio Devic	None	Frequency					
10 dB/div	Ref Offset 15.6 dB Ref 30.00 dBm								
10,0 10,0		francia		-			Center Fred 1.882500000 GH:		
-20.0		1				-			
-10 0. 									
-60 C									
Center 1.8 #Res BW		-	#VBW 91 kHz	<u> </u>		n 3 MHz 3.2 ms	CF Step 300.000 kH		
Occup	ied Bandwidth 1.1	230 MHz	Total Pov	ver 32	2.1 dBm		Auto Mar Freq Offse		
	it Freq Error Indwidth	1.152 kHz 1.663 MHz	% of OBV x dB		99.00 % 6.00 dB		0 H		
esci				Cost.	105				

Band25_1_4MHz_QPSK_6_0_HighCH26683-1914.3



Band25 1 4MHz 16QAM 6 0 LowCH26047-1850.7

RL	HI SEID DC			NGE OWN				M Aug 07, 2018	Frequency	
Center Fre	eg 1.850700000 G	Hz FGain:Low	Center Freq: 1.850700000 GHz Trig: Free Run Avg Hold: 50/50 #Atten: 30 dB				Radio Std: None Radio Device: BTS		requercy	
10 dBrdiv	Ref 0ffset 15.6 dB Ref 30.00 dBm									
100 100		-			-				Center Freq 1.850700000 GHz	
N000	and the second s	1								
10 0. 10 0.										
40.0 60.0										
Center 1.8 #Res BW			#VI	BW 91 kH	Iz			an 3 MHz p 3.2 ms	CF Step 300.000 kHz	
Occup	led Bandwidth			Total P	ower	32	.3 dBm		Auto Mar	
	1.13 hit Freq Error andwidth	611 1.685 M	Hz	% of OE	BW Powe		9.00 % 5.00 dB		Freq Offset 0 Ha	
Parent Parent										
10						To STAT	105			

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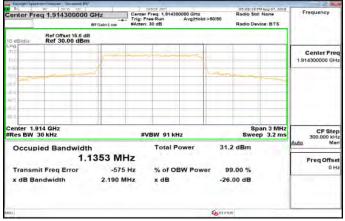
4	澧	检	64	*#	服4	分有	限	ふ	a	
0	15	TΠ (现イ	T 4X	JAC 1	X 73	112	Δ.	ч	



Band25_1_4MHz_16QAM_6_0_MidCH26365-1882.5

Center Fre	ag 1.882500000 G		Center Freq: 1.882500000 GHz Trig: Free Run AvgiHold: 50/50 #Atten: 30 dB				PM Aug 07, 2038 d: None vice: BTS	Frequency
10 dB/div	Ref Offset 15.6 dB Ref 30.00 dBm							
10,0 10,0 10,0		1						Center Freq 1.882500000 GHz
20.0	man manut	4			har			
40.0. 40.0					_			
60 0.								
Center 1.8 Res BW 3			#VBW 91	kHz			pan 3 MHz ep 3.2 ms	CF Step 300.000 kHz
Occupi	ed Bandwidth	Second		Power	31.1	dBm		Auto Man
		152 MH						Freq Offset
	it Freq Error ndwidth	2.393 kH 1.364 MH		OBW Powe		9.00 % 00 dB		0 Hz
NG					Costatus.	5		

Band25_1_4MHz_16QAM_6_0_HighCH26683-1914.3



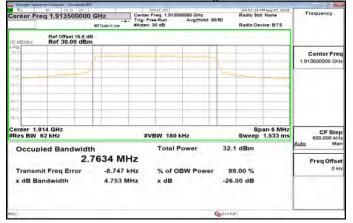
Band25_3MHz_QPSK_15_0_LowCH26055-1851.5

Center Fre	eq 1.8515000		Z	Center Freq: 1.851500000 GHz Trig: Free Run AvgiHold: 50/50 #Atten: 30 dB				Radio Std: None Radio Device: BTS		Frequency
10 dB/div	Ref Offset 15.6 dB Ref 30.00 dBm									
100 100		1-								Center Freq 1.851500000 GHz
0.000 10.0 20.0	winnin	-					1_			
-00 -00 -00			_					-		
40.0 60.0										
Center 1.8 Res BW (#VE	SW 180 H	Hz			an 6 MHz 1.533 ms	CF Step 600.000 kHz
Occup	led Bandwi		94 MH	7	Total P	ower	32.6	5 dBm		Auto Man
	it Freq Error ndwidth		3.218 ki 3.084 Mi	Hz	% of OI x dB	BW Power		9.00 % .00 dB		Freq Offset 0 Hz
							Converter	5		

Band25_3MHz_QPSK_15_0_MidCH26365-1882.5

Center Free	q 1.882500000	GHz	Center Fre	ther Freq: 1.882500000 GHz g: Free Run AvgiHold: 50/50				MAND 07, 2018	Frequency	
10 dB/div	Ref Offset 15.6 dB									
100 100			~~~	~~~					Cent 1.882500	er Fred
200	frank			_		1				
-10 0. -40 0.										
-60 0.			-	_						
Center 1.88 #Res BW 6			#VB	W 180 P	Hz	-		an 6 MHz 1.533 ms	600.	F Step
Occupie	ed Bandwidt			Total P	ower	32.3	2 dBm		Auto	Mar
	2.7	7331 MH	z						Fred	Offset
Transmit	t Freq Error	2.797 kH	Hz	% of O	BW Power	99	9.00 %			0 Ha
x dB Ban	ndwidth	3.263 MH	Hz	x dB		-26.	00 dB		1	
(Inc.)						Co STATU	5			

Band25_3MHz_QPSK_15_0_HighCH26675-1913.5



Band25_3MHz_16QAM_15_0_LowCH26055-1851.5

Average Spect	HI NO	cupted BV/			ana an				PM App 07, 2010	32	×
	eq 1.85150	00000 G	Hz FGain:Low	Center Freq: 1.851500000 GHz				Radio Std: None Radio Device: BTS		Frequency	
10 dBJdiv Ref 30.00 dBm											
10,0 10,0		Y								Center Fr 1.851500000 G	
0.000 -2010		al					2				
-30 0. -40 0				-			-				
-60 0.											
Center 1.8 #Res BW				#1	BW 180	KHZ	÷.,		oan 6 MHz 1.533 ms	CF St 600.000 k	cH ₂
Occup	led Band	width	1		Total P	ower	31	.3 dBm		Auto M	Aan
		2.7	337 MH	łz						Freq Offs	
	it Freq En Indwidth	ror	-2.099 k 3.842 M		% of O x dB	BW Power		99.00 % 5.00 dB		0	Hz
4962							Co STAT	US			

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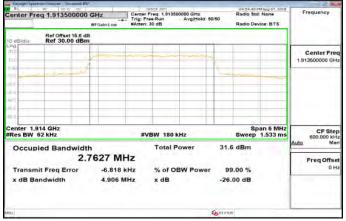
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•			



Band25_3MHz_16QAM_15_0_MidCH26365-1882.5

Center Fre	eq 1.882500000 i	GHz MFGainLow	Center Freq: 1,882500000 GHz Trig: Free Run Avg Hold: 50/50 #Atten: 30 dB				Radio Sto	MAug 07, 2018 1: None vice: BTS	Frequency
10 dB/div	Ref Offset 15.6 dB Ref 30.00 dBm								
36,0 10,0 0.00				>					Center Free 1.882500000 GH
20.0	and the second second					Lief			
40.0. 40.0									
Center 1.8									
#Res BW (#VE	SW 180 K	Hz	0		an 6 MHz 1.533 ms	CF Step 600.000 kH
Occup	ed Bandwidth			Total P	ower	31.2	dBm		Auto Mar
	2.7	240 MH	z						Freq Offse
	it Freq Error ndwidth	2.310 ki 3.412 Mi		% of Of x dB	3W Power		.00 % 00 dB		OH
inci i						-			

Band25_3MHz_16QAM_15_0_HighCH26675-1913.5



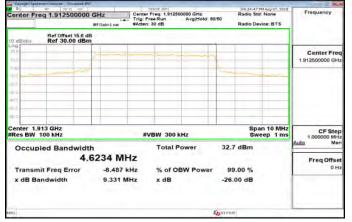
Band25 5MHz QPSK 25 0 LowCH26065-1852.5

RL RL	HI DE D DC	1		NGR SWY				PM Aug 07, 2018		
Center Fre	g 1.852500000 (SHz	Center Freq: 1,852500000 GHz Trig: Free Run AvgiHold:>50/50 #Atten: 30 dB				Radio Std: None Radio Device: BTS		Frequency	
10 dB/div										
10,0 10,0					- toped				Center Freq 1.852500000 GHz	
200	and the second					20	-	-m-		
-30 0. -46 0							_			
-60 C						-				
Center 1.8 #Res BW			#VE	SW 300 H	Hz		Sp	an 10 MHz eep 1 ms	CF Step	
Occup	ied Bandwidth			Total P	ower	31	.5 dBm		Auto Man	
	4.5 it Freq Error ndwidth	579 MH 9.023 ki 6.425 Mi	Hz	% of O x dB	BW Power		99.00 % 6.00 dB		Freq Offset 0 Hz	
90							105			

Band25_5MHz_QPSK_25_0_MidCH26365-1882.5

Center Fre	Bit Bit State Center Freq 1,882500000 GHz Center Freq 1,882500000 GHz Center Freq 1,882500000 GHz Center Freq 1,882500000 GHz Radio State None Bit Gain Low Trig: Free Run AvgiHold 5050 Radio Device: BTS									
10 dB/div										
10,0 10,0							Center Free 1.882500000 GH			
10.00				12						
20.0 -20.0. -27.0						_				
10.0						-				
Center 1.8			#VBW 300 kHz			n 10 MHz ep 1 ms	CF Step			
	ed Bandwidth	1	Total Pow	er 32	2.3 dBm	op 1110	Auto Mar			
		5227 MHz					Freq Offse			
Transm x dB Ba	it Freq Error ndwidth	2.937 kHz 5.054 MHz	% of OBW x dB		99.00 % 6.00 dB		0 H			
80				(Josta						

Band25_5MHz_QPSK_25_0_HighCH26665-1912.5



Band25 5MHz 16QAM 25 0 LowCH26065-1852.5

Supergitt Spect	NI STO DC		1 444	car awr			104.00.00	PM App 07, 2010	
Center Fre	g 1.852500000 0	SHz IFGain:Low	Center Freq: 1.852500000 GHz				Radio Std: None Radio Device: BTS		Frequency
10 dB/div	Ref Offset 15.6 dB Ref 30.00 dBm								
210 100 100									Center Fred 1.852500000 GHz
10.000 N0.00 20.0						1-			
ao 0. 40 0.									
40.0 ep ca			_	_			-		
Center 1.8 Res BW			#VB	W 300 I	KHZ	-		an 10 MHz eep 1 ms	CF Step 1.000000 MH
Occup	ied Bandwidth	396 MH	17	Total F	ower	32.0	dBm		Auto Mar
	4.0 It Freq Error ndwidth	7.886 ki 6.540 Mi	Hz	% of O x dB	BW Power		9.00 % .00 dB		Freq Offset 0 Hz
NG I						Contratus	5		

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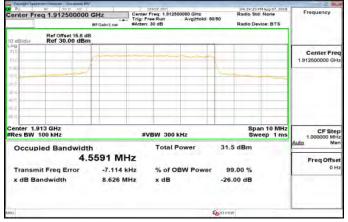
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•	131777777	12,42,14 71	1



Band25_5MHz_16QAM_25_0_MidCH26365-1882.5

Center Fre	eq 1.882500000	GHZ MFGain1.ow	Center Freq: Trig: Free Ru #Atten: 30 dB	1.882500000 GHz AvgiHold	50/50	Radio Device: BTS		Frequency
10 dB/div	Ref Offset 15.6 dB Ref 30.00 dBm							
39,0 10,0					-			Center Freq 1.882500000 GHz
10.000 10.00 20.0		-			here			
-30 0. -40 0			_					
-60 0.			_					
Center 1.8 #Res BW			#VBW	300 kHz			eep 1 ms	CF Step 1.000000 MHz
Occup	led Bandwidth	521 MH		otal Power	31.3	dBm		Auto Man
	it Freq Error ndwidth	-2.632 ki 7.167 Mi	Hz %	of OBW Powe		0.00 % 00 dB		Freq Offset 0 Hz
mo)					(Destatus			

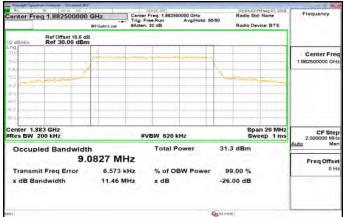
Band25_5MHz_16QAM_25_0_HighCH26665-1912.5



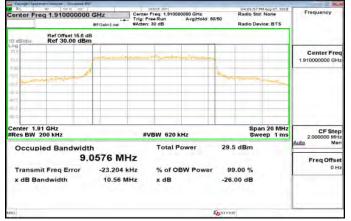
Band25 10MHz QPSK 50 0 LowCH26090-1855

Center Fre	g 1.855000000	GHz	Center F	Freq: 1,85500			Radio St	PM Aug 07, 2018 d: None	Frequency
		MFGain:Low	Trig: Fri #Atten:	30 dB	Avg Hold: 50	0/50	Radio De	vice: BTS	
10 dBrdiv	Ref Offset 15.6 dB Ref 30.00 dBm								
10.0 10.0						1			Center Freq 1 85500000 GHz
20.0	-					2		-	_
-80 0. -46 fi :							-		
-10.0									
Center 1.8 #Res BW			#V	BW 620 P	Hz			an 20 MHz eep 1 ms	CF Step 2.000000 MHz
Occup	ed Bandwidth			Total P	ower	30.	7 dBm		Auto Man
	9.0	0880 MH	z						Freq Offset
Transm	it Freq Error	516	Hz	% of O	BW Power	9	9.00 %		0 Hz
x dB Ba	ndwidth	10.59 M	Hz	x dB		-26	.00 dB		-
umc						Contrate.			-

Band25_10MHz_QPSK_50_0_MidCH26365-1882.5



Band25_10MHz_QPSK_50_0_HighCH26640-1910



Band25_10MHz_16QAM_50_0_LowCH26090-1855

Center Fre	eq 1.855000000	GHz MFGalmLow	Center f		AvgiHold: 5	0/50	Radio Der		Frequency
10 dBrdiv	Ref Offset 15.6 dB Ref 30.00 dBm								
10,0 10,0 10,0									Center Freq 1.855000000 GHz
20.0						and and	-		
-30 0.									
-60 C									
Center 1.8 #Res BW			#V	BW 6201	KHZ	-		n 20 MHz ep 1 ms	CF Step 2.000000 MHz
Occup	led Bandwidth			Total F	ower	31	.8 dBm		Auto Man
	9.1 hit Freq Error andwidth	600 MH 973 13.88 M	Hz	% of O x dB	BW Power		9.00 % 5.00 dB		Freq Offset 0 Hz
80						Contrat	10		

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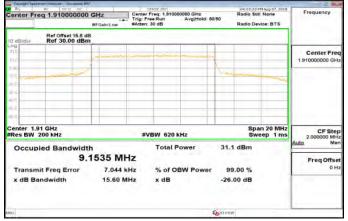
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Band25_10MHz_16QAM_50_0_MidCH26365-1882.5

Center Fre	g 1.882500000		Center Freq: 1.8 Trig: Free Run #Atten: 30 dB	882500000 GHz AvgiHold: 50	Radio S	4 PH Aug 07, 2018 Itd: None levice: BTS	Frequency
10 dB/div	Ref Offset 15.6 dB Ref 30.00 dBm						
10,0 10,0							Center Freq 1.882500000 GHz
0.000 ND 1. 20.0					-	-	
-0 0. Aŭ 0							
40.0 -60.0			-				
Center 1.8 #Res BW 3			#VBW 6	20 kHz		oan 20 MHz weep 1 ms	CF Step 2.000000 MHz
Occup	led Bandwidth 9.1	578 MH		al Power	31.5 dBm		Auto Man Freq Offset
	it Freq Error ndwidth		z % o	f OBW Power B	99.00 % -26.00 dB		0 Hz
10					Destatus		

Band25_10MHz_16QAM_50_0_HighCH26640-1910



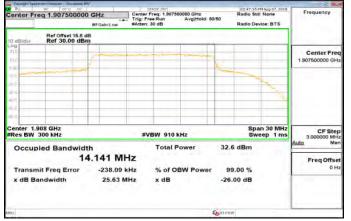
Band25_15MHz_QPSK_75_0_LowCH26115-1857.5

Center Fre	aq 1.857500000 0	SHZ IFGain:Low		Freq: 1,85750 ee Run 30 dB	AvgiHold 5	0/50	Radio Std: None Radio Device: BTS		Frequency	
10 dB/div	Ref Offset 15.6 dB Ref 30.00 dBm									
100		-							Center Freq 1.857500000 GHz	
10.0	aproximent M					Low				
20.0										
40.0										
ED G		1								
Center 1.8 #Res BW			#V	BW 910 K	Hz			an 30 MHz /eep 1 ms	CF Step 3.000000 MHz	
Occup	led Bandwidth			Total P	ower	32.	3 dBm		Auto Man	
		722 MH							Freq Offset	
	it Freq Error	4.804 ki			BW Power		9.00 %		0 Hz	
x dB Ba	indwidth	27.07 M	Hz	x dB		-26	.00 dB			
má l						Charlet	us		-	

Band25 15MHz QPSK 75 0 MidCH26365-1882.5

Center Fre	g 1.88250000	0 GHz MFGain:Low	Center Fr	req: 1,88250 e Run 0 dB	AvgiHold:>5	0/50	Radio Std: None Radio Device: BTS		Frequency
10 dB/div	Ref Offset 15.6 Ref 30.00 dB								
10.0									Center Free 1.882500000 GH
NOD COMPANY		e				"Annelle			
20.0			_	_		-	-		
40.0									
Center 1.8	83 GHz						Sni	an 30 MHz	
Res BW 3	300 kHz		#VE	SW 910 k	Hz		SW	eep 1 ms	3.000000 MH
Occupi	ed Bandwid			Total P	ower	32.6	dBm		Auto Mar
		3.721 MH							Freq Offse
	it Freq Error ndwidth	8.423 k 21.05 M		% of OE x dB	W Power		.00 % 00 dB		
má l						Containes			

Band25_15MHz_QPSK_75_0_HighCH26615-1907.5



Band25_15MHz_16QAM_75_0_LowCH26115-1857.5

Center Fre	ag 1.857500000	GHz MFGain:Low	Center		AvgiHold 50	x60	Radio Std: None Radio Device: BTS		Frequency
10 dBrdiv	Ref Offset 15.6 dB Ref 30.00 dBm								
100 100					******	5			Center Freq 1.857500000 GHz
N000 200						~			
-30 0. -40 11				-					
-60 0.				-					
Center 1.8 #Res BW			#V	BW 9101	kHz		Sp	an 30 MHz leep 1 ms	CF Step 3.000000 MHz
Occup	led Bandwidth			Total F	ower	32.	5 dBm		Auto Man
	13	.724 MH	IZ						Freq Offset
	it Freq Error Indwidth	671 25.19 M		% of O x dB	BW Power		9.00 % .00 dB		0 Hz
enc)						Contratu	5		

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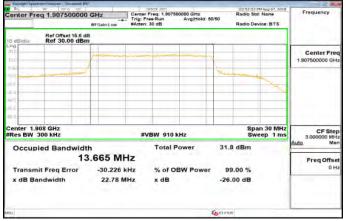
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Band25_15MHz_16QAM_75_0_MidCH26365-1882.5

Center Fre	ag 1.882500000 0	SHz IFGain:Low			AvgiHold 50	50	Radio Sta	PM Aug 07, 2018 d: None vice: BTS	Frequency
10 dB/div	Ref Offset 15.6 dB Ref 30.00 dBm								
10,0 10,0				-					Center Free 1.882500000 GH
NUC	- war			_		-			
-00 G. 									
40.0 ED 0									
Center 1.8 Res BW			#VB	W 910 H	Hz			an 30 MHz eep 1 ms	CF Step 3.000000 MH
Occup	led Bandwidth			Total P	ower	32.7	dBm		Auto Mar
	13.	703 MH	z						Freq Offset
Transm	it Freq Error	8.820 kH	-iz	% of O	BW Power	99.	00 %		0 Ha
x dB Ba	ndwidth	21.83 MH	łz	x dB		-26.0	0 dB		
eo.					0	DEFATUS			

Band25_15MHz_16QAM_75_0_HighCH26615-1907.5



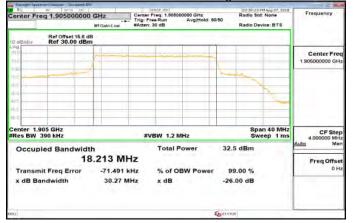
Band25 20MHz QPSK 100 0 LowCH26140-1860

Center Fre	aq 1.860000000	GHz MFGainLow			000 GHz AvgiHold: 50	0/50	Radio St	MAng 07, 2018 d: None vice: BTS	Frequency
10 dB/div	Ref Offset 15.6 dB Ref 30.00 dBm								
320 100			مايتحت			-			Center Freq 1.86000000 GHz
N00	M					à.			_
-10 Q. -40 D									
40.0 60.0							-		
Center 1.8 Res BW			#1	/BW 1.2 MH	łz	_		an 40 MHz eep 1 ms	CF Step 4.000000 MH2
Occup	led Bandwidth	i		Total Po	wer	32.	5 dBm		Auto Man
	18	.113 MH	z						Freq Offset
Transm	it Freq Error	16.987 ki	Hz	% of OB	W Power	9	9.00 %		0 Hz
x dB Ba	ndwidth	25.35 M	Hz	x dB		-26	.00 dB		
enc)						Contant	ne l		

Band25_20MHz_QPSK_100_0_MidCH26365-1882.5



Band25_20MHz_QPSK_100_0_HighCH26590-1905



Band25 20MHz 16QAM 100 0 LowCH26140-1860

Repetitions	HI STORE		2 -10	NSR 2WT			01-11-571	M Apg 07, 2018	0.2.84	
Center Fre	eq 1.860000000 G	Hz FGain:Low	Center F	eq: 1,86000	AvgiHold 50	0/50	Radio Std	None	Frequency	
10 dBrdiv	Ref Offset 15.6 dB Ref 30.00 dBm			_						
10,0 10,0					in the				Center Freq 1.86000000 GHz	
10.000 10.00 2	a mont		_			Se.				
2000 -3000- -4000								_		
-0.0 -60 0										
Center 1.8 Res BW			#VE	SW 1.2 N	IHz			n 40 MHz eep 1 ms	CF Step	
Occup	ied Bandwidth			Total P	ower	31.0	6 dBm		Auto Mar	
	18. hit Freq Error andwidth	4.845 kl 32.78 M	Hz	% of O x dB	BW Power		9.00 % .00 dB		Freq Offset 0 Hz	
HIC .	Lo status									

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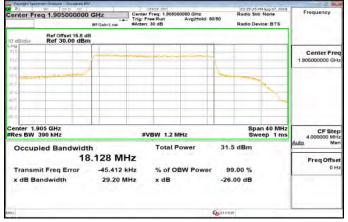
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Band25_20MHz_16QAM_100_0_MidCH26365-1882.5

Center Fre	g 1.882500000 0	-the Tr	nter Freq: 1,8825 ig: Free Run tten: 30 dB	AvgiHold: 50	Radio S	evice: BTS	Frequency
10 dB/div	Ref Offset 15.6 dB Ref 30.00 dBm				-		
310 10,0							Center Free 1.882500000 GH:
1000 1000	- manager - I						
-0 0. 400							
-0.0 -60 0.			_				
Center 1.8 Res BW 3			#VBW 1.2	MHz	Sp Sv	an 40 MHz veep 1 ms	CF Step 4.000000 MH
Occupi	ed Bandwidth		Total	Power	31.7 dBm		Auto Mar
	18.086 N Transmit Freq Error 18.378 x dB Bandwidth 26.37		% of C x dB	99.00 % -26.00 dB		Freq Offse 0 H	
1					Com ATUS		

Band25_20MHz_16QAM_100_0_HighCH26590-1905



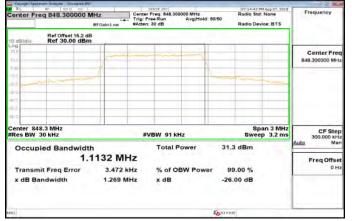
Band26_1_4MHz_QPSK_6_0_LowCH26797-824.7

Center Fr	eq 824.700000 MH		Center Trig: Fr	Center Freq: 824.700000 MHz Radio Std: No Trig: Free Run Avg Hold: 50/50 #Atten: 30 dB Radio Device:					Frequency
	Ref Offset 15.2 dB	FGain:Low	Low #Atten: 30 dB Ra					ICE: BTS	
10 dB/div	Ref 30.00 dBm				-				
10,0		-							Center Freq 824.700000 MHz
0.001 	an market	4				have	in		
-10 Q. -40 Q									
-0.0 -e0 c				-					
Center 82 #Res BW			#1	BW 91 ki	łz			an 3 MHz p 3.2 ms	CF Step 300.000 kHz
Occup	led Bandwidth	S. A. States		Total P	ower	31.	0 dBm		Auto Man
	1.1	051 MH	z						Freq Offset
	Transmit Freq Error 20				BW Pov		9.00 %		0 Hz
x dB Ba	andwidth	1.258 M	Hz	x dB		-26	.00 dB		
enc)						Costan	15		-

Band26_1_4MHz_QPSK_6_0_MidCH26915-836.5

Center Fre	g 836.500000 M		Center Freq: 836.50 Frig: Free Run Atten: 30 dB	AvgiHold: 50/50	Radio Std	None	Frequency
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm						
10,0 10,0 10,0		Jana		-		_	Center Freq 836.500000 MHz
200	mar	A					
-0 0 400		-			-	-	
60 0.							
Center 836 #Res BW 3			#VBW 91 k	Hz		n 3 MHz 3.2 ms	CF Step 300.000 kHz
Occupi	ed Bandwidth	i	Total F	ower 3	1.2 dBm		Auto Man
	1.1	056 MH	2				Freq Offset
Transmi	t Freq Error	-3.045 kH	z % of O	BW Power	99.00 %		0 Hz
x dB Ba	ndwidth	1.255 MH	z xdB	4	26.00 dB		
Inc.				(Jan)	ATUS		

Band26_1_4MHz_QPSK_6_0_HighCH27033-848.3



Band26 1 4MHz 16QAM 6 0 LowCH26797-824.7

RL RI	Anunyzer - Occupted BW		1.31	NGE SINT			07:15:38 P	M Aug 07, 2018	
Center Freq	824.700000 MH	E Gain:Low		req: 824.700 # Run	AvgiHol	1 50/50	Radio Std Radio Dev	None	Frequency
	Ref Offset 15.2 dB Ref 30.00 dBm								
30,0 10,0		m			m				Center Free 824.700000 MHz
0.000 10.0	- mail						-		_
30 0. 40 0									
40.0 ED C.									
Center 824.7 Res BW 30			#VI	BW 91 KH	łz			an 3 MHz p 3.2 ms	CF Step 300.000 kH
Occupied	Bandwidth			Total P	ower	31	.2 dBm		Auto Mar
	1.11	31 MH	z						Freq Offset
Transmit F	Freq Error	-1.205 k	Hz	% of O	BW Pow	er s	9.00 %		0 H
x dB Band	lwidth	1.333 M	Hz	x dB		-20	5.00 dB		
eq						Co STAT	105		

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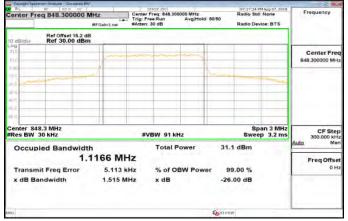
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Band26_1_4MHz_16QAM_6_0_MidCH26915-836.5

Center Fre	ag 836.500000 MH	Trig:	Free Run n: 30 dB	AvgiHold: 50	Radio S	PM Aug 07, 2018 d: None evice: BTS	Frequency
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm						
10,0 10,0			-	-			Center Fred 836.500000 MHz
0.000 00.0 20.0	the second						
-30 0. Ag 11 -40 0							
ED C							
Res BW		1	VBW 91 kH	łz		pan 3 MHz ep 3.2 ms	CF Step 300.000 kHz
Occup	led Bandwidth		Total P	ower	31.9 dBm		Auto Man
			IHZ kHz % of OBW Power MHz x dB -2				Freq Offset 0 Hz
					Communes .		

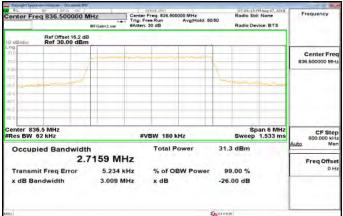
Band26_1_4MHz_16QAM_6_0_HighCH27033-848.3



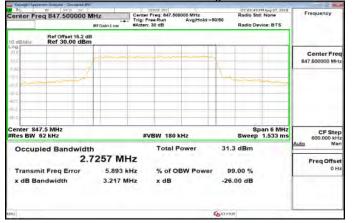
Band26 3MHz QPSK 15 0 LowCH26805-825.5

Expedit Spect	THE SPICE DC F			car awa			07-05-175	M Aug 07, 2018	
Center Fre	eq 825.500000 M	HZ IFGain:Low		eq: 825.50	AvgiHold: 50	450	Radio Std	None	Frequency
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm	-				_			
320 100									Center Freq 825 500000 MHz
0.000 V0.0						Jan .			
40.0. 40.0									
40.0 60.0			_				-		
Center 82 Res BW			#VB	W 1801	kHz			an 6 MHz 1.533 ms	CF Step 600.000 kHz
Occup	led Bandwidth			Total F	ower	31.	2 dBm		Auto Mar
	2.7	331 MH	z						Freq Offset
Transm	Transmit Freq Error -8.237		Hz	% of O	BW Power	91	9.00 %		0 Hz
x dB Ba	ndwidth	3.017 M	Hz	x dB		-26	.00 dB		
600					_	Contratto	5		-

Band26_3MHz_QPSK_15_0_MidCH26915-836.5



Band26_3MHz_QPSK_15_0_HighCH27025-847.5



Band26 3MHz 16QAM 15 0 LowCH26805-825.5

Average Seat	THE STORE DC	- T	5 data	est and			07-07-44	M Aug 07, 2010		
Center Fr	eq 825,500000 N	IHZ MFGain:Low		eq: 825.50	Avg Hold:>5	0/50	Radio Sto Radio De	t: None	Frequen	cy
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm									
10,0 10,0		no-			de maitre				Cente 825.50000	
0.000 10.0	for ment					1000				
ao o. Ad ti										
40.0 60.0				-			_			
Center 82 #Res BW			#VE	W 180	kHz			an 6 MHz 1.533 ms		00 kH
Occup	ied Bandwidt			Total F	ower	31.5	dBm			Mar
	2.7	7326 MH	z						Freq	
	Transmit Freq Error -760 x dB Bandwidth 3.012 N						00 % 0 dB		0 H	
INC.						Contatus				

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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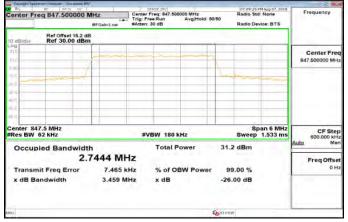
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Band26_3MHz_16QAM_15_0_MidCH26915-836.5

Center Fre	N SNG DC 1 99 836,500000 M	Hz IFGain1ow	Center Freq: 836,500000 MHz Trig: Free Run AvgiHold: 50/50 #Atten: 30 dB				Radio St	PH Aug 07, 2018 d: None wice: BTS	Frequency
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm								
10,0 10,0 0 000						2			Center Fred 836.500000 MHz
	in the second		_			he			
40.0. 40.0			_	_				_	
Center 836	5 5 MH7							pan 6 MHz	-
#Res BW			#VBV	V 180 k	Hz	1.1		1.533 ms	CF Step 600.000 kH
Occup	ed Bandwidth			Total P	ower	31.5	dBm		Auto Mar
		309 MH							Freq Offset
	it Freq Error ndwidth	9.573 kH 3.021 MH		dB	3W Power		00 % 00 dB		OH
eig)						Contactus			

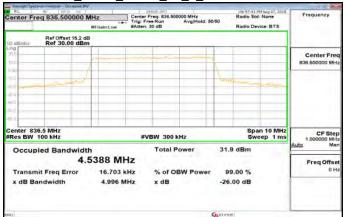
Band26_3MHz_16QAM_15_0_HighCH27025-847.5



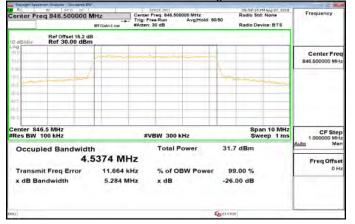
Band26_5MHz_QPSK_25_0_LowCH26815-826.5

RL	- RF 5810 DC [SERVER SMT		Radio Std: None	Frequency				
Center Fre	eq 826.500000 M	- Frig	ter Freq: 826.500000 : Free Run en: 30 dB	AvgiHold: 50/50	Radio Std: None Radio Device: BTS	requirer				
10 dB/div	Ref 0ffset 15.2 dB Ref 30.00 dBm									
35,0 10,0 0,00	1	in				Center Fred 826.500000 MHz				
10.0 20.0					hout					
40 0. 40 0.										
40.0 ED C										
Res BW			#VBW 300 kHz		Span 10 MH Sweep 1 m	1.000000 MH				
Occup	led Bandwidth	Second -	Total Pov	ver 31	.2 dBm	Auto Mar				
	4.5	508 MHz				Freq Offset				
Transmit Freq Error 2.342		2.342 kHz	% of OBV	Power	99.00 %	0 Hz				
x dB Ba	indwidth	4.949 MHz	x dB	-2	6.00 dB	1				
eo.				(Losia)	1415					

Band26_5MHz_QPSK_25_0_MidCH26915-836.5



Band26_5MHz_QPSK_25_0_HighCH27015-846.5



Band26 5MHz 16QAM 25 0 LowCH26815-826.5

RL	18F 5810 DC 1			NSE SMT			Radio Std	M Aug 07, 2018	Frequency		
Center Fre	eq 826.500000 M	HZ IFGain:Low	Center Freq: 826.500000 MHz Trig: Free Run Avg Hold: 50/50 #Atten: 30 dB				Radio Std		(coquarto)		
10 dB/div	Ref Offset 15.2 dB Ref 30.00 dBm										
20.0 10.0						-			Center Free 826.500000 MH		
0.000 10.0	a mark					100	·				
30 G. 40 D											
Hù () ED ()				-							
Res BW			#VI	BW 300 H	Hz			n 10 MHz ep 1 ms	CF Step		
Occup	ed Bandwidth	11		Total P	ower	31.6	dBm		Auto Mar		
	4.5	226 MH	z						Freq Offset		
Transm	it Freq Error	-2.175 k	Hz	% of O	BW Power	99	.00 %		0 H		
x dB Ba	ndwidth	5.036 M	Hz	x dB		-26.0	00 dB				
90						Contanus					

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