

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**

OF

Applicant: HP Inc.
3390 East Harmony Road, Fort Collins Colorado, USA 80528

Product Name: Notebook PC

Brand Name: HP

Model No.: HSN-Q11C

Model Difference: N/A

FCC ID: B94HNQ11CJPPD

Report Number: ER/2018/20021

FCC Rule Part: 2 , 22H & 24E & 27B, C & L & 90S

Issue Date: Mar. 31, 2018

Date of Test: Mar. 20, 2018 (Conducted), Mar. 14, 2018(Radiated)

Date of EUT Received: Feb. 06, 2018

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.

Tested By:

Marcus Tseng

Marcus Tseng / Engineer

Approved By:

Jim Chang

Jim Chang / Asst. Manager



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Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
ER/2018/20021	Rev.00	Initial creation of document	All	Mar. 31, 2018	Stefanie Yu / Clerk

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	Notebook PC	
Brand Name:	HP	
Model No.:	HSN-Q11C	
Model Difference:	N/A	
Hardware Version:	N/A	
Software Version:	N/A	
Power Supply:	15.4Vdc from Rechargeable Li-polymer Battery or 19.5Vdc from AC/DC Adapter	
	Battery:	Model No.: HSTNN-IB8I, Supplier: Chongqing C-Tech Technology Co., Ltd.
	Adapter:	Model No.: TPN-DA09, Supplier: DELTA ELECTRONICS (JIANGSU) LTD.
IMEI:	359324080130470	

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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)	Operation Frequency (MHz)	LTE Band	BW (MHz)	Operation Frequency (MHz)		
2	1.4	1850.7 - 1909.3	13	5	779.5 - 784.5		
	3	1851.5 - 1908.5		10	782		
	5	1852.5 - 1907.5	17	5	706.5 - 713.5		
	10	1855.0 - 1905.0		10	709.0 - 711.0		
	4	15	1857.5 - 1902.5	26	1.4	824.7 - 848.3	
		20	1860.0 - 1900.0		3	825.5 - 847.5	
5		1.4	1710.7 - 1754.3		5	826.5 - 846.5	
		3	1711.5 - 1753.5	10	829.0 - 844.0		
		5	1712.5 - 1752.5	26 Part90	15	831.5 - 841.5	
10		1715.0 - 1780.0	1.4		814.7 - 823.3		
15	1717.5 - 1747.5	3	815.5 - 822.5				
5	20	1720.0 - 1745.0	5	816.5 - 821.5			
	7	1.4	824.7 - 848.3	10	819.0		
		3	825.5 - 847.5	30	5	2307.5 - 2312.5	
		5	826.5 - 846.5		10	2310.0	
7	10	829.0 - 844.0	38	5	2572.5 - 2617.5		
	12	5		2502.5 - 2567.5	10	2575.0 - 2615.0	
		10		2505.0 - 2565.0	15	2577.5 - 2612.5	
	15	2507.5 - 2562.5		20	2580.0 - 2610.0		
12	20	2510.0 - 2560.0	66	1.4	1710.7 - 1779.3		
	41	1.4			699.7 - 715.3	3	1711.5 - 1778.5
		3			700.5 - 714.5	5	1712.5 - 1777.5
	5	701.5 - 713.5			10	1715.0 - 1775.0	
10	704.0 - 711.0	15	1717.5 - 1772.5				
			20	1720.0 - 1770.0			

LTE Band	BW (MHz)	Operation Frequency (MHz)	LTE Band	BW (MHz)	Operation Frequency (MHz)
41	5	2498.5 - 2687.5	66	1.4	1710.7 - 1779.3
	10	2501.0 - 2685.0		3	1711.5 - 1778.5
	15	2503.5 - 2682.5		5	1712.5 - 1777.5
	20	2506.0 - 2680.0		10	1715.0 - 1775.0
		15		1717.5 - 1772.5	
				20	1720.0 - 1770.0

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Antenna Designation

Vendor	Type	Main / Aux	Antenna Part No.	Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)
INPAQ	PIFA	Main	QD6LB020109 (WA-P-LTE8LTE8LBLE-02-014)	WCDMA / HSPA Band II	1852.4 ~ 1907.6	-3.13
				WCDMA / HSPA Band IV	1712.4 ~ 1752.6	-2.54
				WCDMA / HSPA Band V	826.4 ~ 846.6	-7.27
				LTE Band 2	1850 ~ 1910	-3.13
				LTE Band 4	1710 ~ 1755	-2.2
				LTE Band 5	824 ~ 849	-6.94
				LTE Band 7	2503 ~ 2560	-4.02
				LTE Band 12	699 ~ 716	-4.87
				LTE Band 13	777 ~ 787	-4.92
				LTE Band 17	704 ~ 716	-4.87
				LTE Band 26	824 ~ 849	-6.94
				LTE Band 26 (Part 90S)	814 ~ 824	N/A
				LTE Band 30	2305 ~ 2315	N/A
				LTE Band 38	2573 ~ 2610	N/A
	LTE Band 41	2496 ~ 2690	-3.59			
	LTE Band 66	1710 ~ 1780	-2.2			
	PIFA	Aux	QD6LB020109 (WA-P-LTE8LTE8LBLE-02-014)	WCDMA / HSPA Band II	1852.4 ~ 1907.6	-6.33
				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	-6.33
				LTE Band 4	1710 ~ 1755	N/A
				LTE Band 5	824 ~ 849	N/A
				LTE Band 7	2503 ~ 2560	N/A
				LTE Band 12	699 ~ 716	N/A
				LTE Band 13	777 ~ 787	N/A
				LTE Band 17	704 ~ 716	N/A
LTE Band 26				824 ~ 849	N/A	
LTE Band 26 (Part 90S)				814 ~ 824	-7.26	
LTE Band 30	2305 ~ 2315	N/A				
LTE Band 38	2573 ~ 2610	N/A				
LTE Band 41	2496 ~ 2690	-7.75				
LTE Band 66	1710 ~ 1780	N/A				

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

	ERP / EIRP (dBm)		(W)	Type of Emission
WCDMA Band II	20.24	EIRP	0.106	4M07F9W
HSDPA Band II	20.95	EIRP	0.124	4M08F9W
HSUPA Band II	20.32	EIRP	0.108	4M06F9W
WCDMA Band IV	21.18	EIRP	0.131	4M07F9W
HSDPA Band IV	21.69	EIRP	0.148	4M07F9W
HSUPA Band IV	21.94	EIRP	0.156	4M07F9W
WCDMA Band V	18.63	ERP	0.073	4M07F9W
HSDPA Band V	18.98	ERP	0.079	4M08F9W
HSUPA Band V	20.10	ERP	0.102	4M07F9W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)	(W)	Type of Emission	LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)	(W)	Type of Emission		
2	1.4	QPSK	24.62	EIRP	0.290	1M11G7D	4	1.4	QPSK	23.14	EIRP	0.206	1M12G7D
	1.4	16QAM	25.16	EIRP	0.328	1M12D7W		1.4	16QAM	22.96	EIRP	0.198	1M11D7W
	3	QPSK	24.62	EIRP	0.290	2M73G7D		3	QPSK	23.32	EIRP	0.215	2M73G7D
	3	16QAM	25.13	EIRP	0.326	2M73D7W		3	16QAM	23.43	EIRP	0.220	2M72D7W
	5	QPSK	24.56	EIRP	0.286	4M52G7D		5	QPSK	22.99	EIRP	0.199	4M52G7D
	5	16QAM	25.52	EIRP	0.356	4M54D7W		5	16QAM	23.37	EIRP	0.217	4M52D7W
	10	QPSK	24.83	EIRP	0.304	9M10G7D		10	QPSK	22.98	EIRP	0.199	9M07G7D
	10	16QAM	25.32	EIRP	0.340	9M07D7W		10	16QAM	23.93	EIRP	0.247	9M06D7W
	15	QPSK	24.17	EIRP	0.261	13M5G7D		15	QPSK	23.14	EIRP	0.206	13M5G7D
	15	16QAM	24.84	EIRP	0.305	13M5D7W		15	16QAM	24.18	EIRP	0.262	13M5D7W
	20	QPSK	24.25	EIRP	0.266	18M1G7D		20	QPSK	22.97	EIRP	0.198	18M0G7D
	20	16QAM	25.23	EIRP	0.333	18M0D7W		20	16QAM	23.44	EIRP	0.221	18M0D7W

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TE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)	(W)	Type of Emission	LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)	(W)	Type of Emission		
5	1.4	QPSK	18.63	ERP	0.073	1M11G7D	12	1.4	QPSK	22.72	ERP	0.187	1M11G7D
	1.4	16QAM	18.78	ERP	0.076	1M13D7W		1.4	16QAM	22.96	ERP	0.198	1M12D7W
	3	QPSK	19.48	ERP	0.089	2M72G7D		3	QPSK	23.14	ERP	0.206	2M73G7D
	3	16QAM	19.51	ERP	0.089	2M73D7W		3	16QAM	23.42	ERP	0.220	2M73D7W
	5	QPSK	20.3	ERP	0.107	4M53G7D		5	QPSK	23.75	ERP	0.237	4M53G7D
	5	16QAM	20.16	ERP	0.104	4M52D7W		5	16QAM	24.48	ERP	0.281	4M51D7W
	10	QPSK	18.85	ERP	0.077	9M08G7D		10	QPSK	22.81	ERP	0.191	9M13G7D
	10	16QAM	20.43	ERP	0.11	9M10D7W		10	16QAM	23.39	ERP	0.218	9M05D7W
7	5	QPSK	25.71	EIRP	0.372	4M53G7D	17	5	QPSK	23.19	ERP	0.208	4M52G7D
	5	16QAM	25.45	EIRP	0.351	4M53D7W		5	16QAM	22.89	ERP	0.195	4M54D7W
	10	QPSK	26.03	EIRP	0.401	9M04G7D		10	QPSK	22.61	ERP	0.182	9M06G7D
	10	16QAM	26.07	EIRP	0.405	9M06D7W		10	16QAM	22.80	ERP	0.191	9M06D7W
	15	QPSK	26.36	EIRP	0.433	13M51G7D	26	1.4	QPSK	19.15	ERP	0.082	1M11G7D
	15	16QAM	26.45	EIRP	0.442	13M57D7W		1.4	16QAM	20.24	ERP	0.106	1M12D7W
	20	QPSK	26.54	EIRP	0.451	18M03G7D		3	QPSK	20.57	ERP	0.114	2M73G7D
	20	16QAM	26.68	EIRP	0.466	18M03D7W		3	16QAM	19.92	ERP	0.098	2M73D7W
13	5	QPSK	22.52	ERP	0.179	4M52G7D	5	QPSK	18.56	ERP	0.072	4M52G7D	
	5	16QAM	22.46	ERP	0.176	4M52D7W	5	16QAM	20.07	ERP	0.102	4M52D7W	
	10	QPSK	20.47	ERP	0.111	9M01G7D	10	QPSK	18.97	ERP	0.079	9M06G7D	
	10	16QAM	20.70	ERP	0.117	8M97D7W	10	16QAM	19.81	ERP	0.096	9M14D7W	
							15	QPSK	21.39	ERP	0.138	13M6G7D	
							15	16QAM	22.23	ERP	0.167	13M6D7W	

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LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)	(W)	Type of Emission
26 Part90	1.4	QPSK	18.88	ERP 0.077	1M11G7D
	1.4	16QAM	20.03	ERP 0.101	1M12D7W
	3	QPSK	20.77	ERP 0.119	2M73G7D
	3	16QAM	19.48	ERP 0.089	2M72D7W
	5	QPSK	20.90	ERP 0.123	4M53G7D
	5	16QAM	20.22	ERP 0.105	4M52D7W
	10	QPSK	19.02	ERP 0.080	9M13G7D
	10	16QAM	20.61	ERP 0.115	9M08D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)	(W)	Type of Emission
30	5	QPSK	22.32	EIRP 0.171	4M53G7D
	5	16QAM	23.23	EIRP 0.210	4M51D7W
	10	QPSK	21.22	EIRP 0.132	9M00G7D
	10	16QAM	21.33	EIRP 0.136	9M03D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)	(W)	Type of Emission
38	5	QPSK	24.52	ERP 0.283	4M51G7D
	5	16QAM	24.28	ERP 0.268	4M51D7W
	10	QPSK	24.44	ERP 0.278	9M04G7D
	10	16QAM	25.24	ERP 0.334	9M04D7W
	15	QPSK	24.5	ERP 0.282	13M5G7D
	15	16QAM	24.28	ERP 0.268	13M5D7W
	20	QPSK	24.54	ERP 0.284	18M0G7D
	20	16QAM	25.76	ERP 0.270	18M0D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)	(W)	Type of Emission
41	5	QPSK	25.12	EIRP 0.325	4M54G7D
	5	16QAM	25.02	EIRP 0.318	4M52D7W
	10	QPSK	25.41	EIRP 0.348	9M03G7D
	10	16QAM	25.74	EIRP 0.375	8M05D7W
	15	QPSK	25.77	EIRP 0.378	13M5G7D
	15	16QAM	26.16	EIRP 0.413	13M5D7W
	20	QPSK	23.87	EIRP 0.244	18M0G7D
	20	16QAM	26.07	EIRP 0.405	17M9D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)	(W)	Type of Emission
66	1.4	QPSK	23.95	EIRP 0.248	1M12G7D
	1.4	16QAM	23.87	EIRP 0.244	1M13D7W
	3	QPSK	23.76	EIRP 0.238	2M73G7D
	3	16QAM	23.94	EIRP 0.248	2M74D7W
	5	QPSK	23.48	EIRP 0.223	4M52G7D
	5	16QAM	23.79	EIRP 0.239	4M53D7W
	10	QPSK	23.88	EIRP 0.244	9M01G7D
	10	16QAM	24.40	EIRP 0.275	9M08D7W
	15	QPSK	23.86	EIRP 0.243	13M5G7D
	15	16QAM	24.28	EIRP 0.268	13M5D7W
	20	QPSK	23.51	EIRP 0.224	18M0G7D
	20	16QAM	23.09	EIRP 0.204	18M0D7W

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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 24803 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.

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Note:

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

	RF cable loss (dB)	Attenuation factor(dB)	offset(dB)
Low Band (Below 1GHz)	4.3	10	14.3
High Band (Above 1 GHz)	4.8	10	14.8

2.5. Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
WCDMA B2	15.4	0.723
WCDMA B4		0.73
WCDMA B5		0.709
LTE Band 2		0.840
LTE Band 4		0.850
LTE Band 5		0.830
LTE Band 7		0.820
LTE Band 12		0.840
LTE Band 13		0.830
LTE Band 17		0.770
LTE Band 26		0.840
LTE Band 26 (Part 90S)		0.830
LTE Band 30		0.800
LTE Band 38		0.840
LTE Band 41		0.840
LTE Band 66		0.850

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2.6. Configuration of Tested System

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

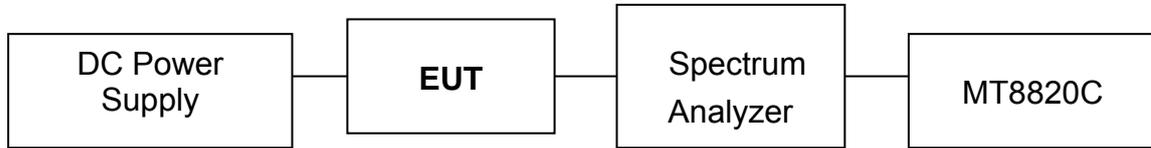
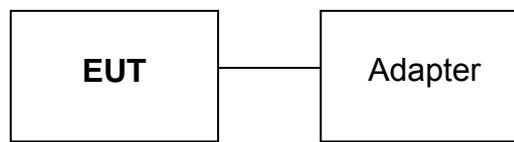


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)



Remote Side

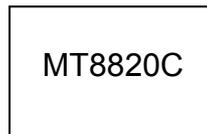


Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Universal Radio Communication Tester	Anritsu	MT8820C	6201465317	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 Occupied 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 Terminals 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

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4. DESCRIPTION OF TEST MODES

4.1. The Worst Test Modes and Channel Details

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

BAND	ERP/EIRP	RADIATED EMISSION
WCDMA/HSPA Band II	E2-plan	E2-plan
WCDMA/HSPA Band IV	E2-plan	E2-plan
WCDMA/HSPA Band V	E2-plan	E2-plan
LTE Band 2	E2-plan	E2-plan
LTE Band 4	E2-plan	E2-plan
LTE Band 5	E2-plan	E2-plan
LTE Band 7	E2-plan	E2-plan
LTE Band 12	E2-plan	E2-plan
LTE Band 13	E2-plan	E2-plan
LTE Band 17	E2-plan	E2-plan
LTE Band 26	E2-plan	E2-plan
LTE Band 26 (Part 90S)	E2-plan	E2-plan
LTE Band 30	E2-plan	E2-plan
LTE Bnad 38	E2-plan	E2-plan
LTE Band 41	E2-plan	E2-plan
LTE Band 66	E2-plan	E2-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	9262, 9400, 9538	WCDMA/HSPA Band II
FREQUENCY STABILITY	4132 to 4233 9262 to 9538	4183 9400	WCDMA Band II WCDMA Band V
OCCUPIED BANDWIDTH	4132 to 4233 9262 to 9538	4132, 4183, 4233 9262, 9400, 9538	WCDMA/HSPA Band II WCDMA/HSPA Band V
PEAK TO AVERAGE RATIO	4132 to 4233 9262 to 9538	4132, 4183, 4233 9262, 9400, 9538	WCDMA/HSPA Band II WCDMA/HSPA Band V
BAND EDGE	4132 to 4233 9262 to 9538	4132, 4233 9262, 9538	WCDMA Band II WCDMA Band V
CONDCUDED EMISSION	4132 to 4233 9262 to 9538	4132, 4183, 4233 9262, 9400, 9538	WCDMA Band II WCDMA Band V
RADIATED EMISSION	4132 to 4233 9262 to 9538	4132, 4183, 4233 9262, 9400, 9538	WCDMA Band II WCDMA Band V

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LTE Band 2 MODE

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

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LTE Band 4 MODE

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

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LTE Band 5 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	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
OCCUPIED BAND-WIDTH	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	20470 to 20643	20470, 20525, 20643	1.4MHz	16QAM	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	16QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	16QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	16QAM	Full RB
BAND EDGE	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
	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
CONDCUDED EMISSION	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK	1 RB, 0 RB Offest
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK	1 RB, 0 RB Offest
	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	16QAM	1 RB, 0 RB Offest

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LTE Band 7 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	20800 to 21400	21100	10MHz	QPSK	Full RB
OCCUPIED BAND-WIDTH	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK, 16QAM	Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	20775 to 21425	20775, 21100, 21425	5MHz	16QAM	Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	16QAM	Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	16QAM	Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	16QAM	Full RB
BAND EDGE	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK	1 RB/ 0,74 RB Offest Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB/ 0,99 RB Offest Full RB
CONDCUDED EMISSION	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB, 0 RB Offest
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB, 0 RB Offest
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK	1 RB, 0 RB Offest
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	20800 to 21400	20800, 21100, 21400	10MHz	16QAM	1 RB, 49 RB Offest
EMISSION MASK	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK	1 RB/ 0,74 RB Offest 75 RB/ 0 Offset
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB/ 0,99 RB Offest 100 RB/ 0 Offset

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LTE Band 12 MODE

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

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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
	23230	23230	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23230	23230	10MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM	Full RB
	23230	23230	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	23205 to 23255	23205, 23230, 23255	5MHz	16QAM	Full RB
	23230	23230	10MHz	16QAM	Full RB
BAND EDGE	23205 to 23255	23205, 23255	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	23230	23230	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	23205 to 23255	23205, 23230, 23255	5MHz	QPSK	1 RB, 0 RB Offest
	23230	23230	10MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	23205 to 23255	23205, 23230, 23255	5MHz	16QAM	1 RB/ 24 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
	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 BANDWIDTH	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM	Full RB
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	23755 to 23825	23755, 23790, 23825	5MHz	16QAM	Full RB
	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
	23780 to 23800	23780, 23800	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	23755 to 23825	23755, 23790, 23825	5MHz	QPSK	1 RB, 0 RB Offest
	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/ 0 RB Offest

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LTE Band 26 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	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
	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
OCCUPIED BAND-WIDTH	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM	Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM	Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM	Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM	Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	26797 to 27033	26797, 26915, 27033	1.4MHz	16QAM	Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	16QAM	Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	16QAM	Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	16QAM	Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	16QAM	Full RB
BAND EDGE	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK	1 RB/ 0,5 RB Offest Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK	1 RB/ 0,14 RB Offest Full RB
	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
CONDCUETED EMISSION	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
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK	1 RB, 0 RB Offest
	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	26840 to 26990	26840, 26915, 26990	15MHz	16QAM	1 RB, 0 RB Offest

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LTE Band 26 for 90S MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	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
OCCUPIED BANDWIDTH	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM	Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM	Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM	Full RB
	26740	26740	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	26697 to 26783	26697, 26740, 26783	1.4MHz	16QAM	Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	16QAM	Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	16QAM	Full RB
	26740	26740	10MHz	16QAM	Full RB
BAND EDGE	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
	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
CONDCUDED EMISSION	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK	1 RB, 0 RB Offest
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK	1 RB, 0 RB Offest
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK	1 RB, 0 RB Offest
	26740	26740	10MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	26697 to 26783	26697, 26740, 26783	5MHz	QPSK	1 RB, 0 RB Offest

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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
	27710	27710	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	27710	27710	10MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	27685 to 27735	27685, 27710, 27735	5MHz	QPSK, 16QAM	Full RB
	27710	27710	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	27685 to 27735	27685, 27710, 27735	5MHz	16QAM	Full RB
	27710	27710	10MHz	16QAM	Full RB
BAND EDGE	27685 to 27735	27685, 27710, 27735	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	27710	27710	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	27685 to 27735	27685, 27710, 27735	5MHz	QPSK	1 RB, 0 RB Offest
	27710	27710	10MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	27685 to 27735	27685, 27710, 27735	10MHz	QPSK	1 RB/ 0 RB Offest

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LTE Band 38 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	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
OCCUPIED BAND-WIDTH	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM	Full RB
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK, 16QAM	Full RB
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK, 16QAM	Full RB
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	37775 to 38225	37775, 38000, 38225	5MHz	16QAM	Full RB
	37800 to 38200	37800 , 38000, 38200	10MHz	16QAM	Full RB
	37825 to 38175	37825 , 38000, 38175	15MHz	16QAM	Full RB
	37850 to 38150	37850 , 38000, 38150	20MHz	16QAM	Full RB
BAND EDGE	37775 to 38225	37775, 38000, 38225	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	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
CONDCUDED EMISSION	37775 to 38225	37775, 38000, 38225	5MHz	QPSK	1 RB, 0 RB Offest
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	1 RB, 0 RB Offest
	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	16QAM	1 RB, 74 RB Offest
EMISSION MASK	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
	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

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LTE Band 41 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	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
OCCUPIED BAND-WIDTH	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM	Full RB
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM	Full RB
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM	Full RB
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	39675 to 41565	39675, 40620, 41565	5MHz	16QAM	Full RB
	39700 to 41540	39700, 40620, 41540	10MHz	16QAM	Full RB
	39725 to 41515	39725, 40620, 41515	15MHz	16QAM	Full RB
	39750 to 41490	39750, 40620, 41490	20MHz	16QAM	Full RB
BAND EDGE	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
	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
CONDCUDED EMISSION	39675 to 41565	39675, 40620, 41565	5MHz	QPSK	1 RB, 0 RB Offest
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK	1 RB, 0 RB Offest
	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
EMISSION MASK	39675 to 41565	39675, 40620, 41565	5MHz	QPSK	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	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 EMIS-SION	39750 to 41490	39750, 40620, 41490	15MHz	16QAM	1 RB, 74 RB Offest

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LTE Band 66 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	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
	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	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
OCCUPIED BANDWIDTH	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK, 16QAM	Full RB
	131987 to 132657	131987, 132322, 132657	3MHz	QPSK, 16QAM	Full RB
	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM	Full RB
	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
PEAK TO AVERAGE RATIO	131979 to 132665	131979, 132322, 132665	1.4MHz	16QAM	Full RB
	131987 to 132657	131987, 132322, 132657	3MHz	16QAM	Full RB
	131997 to 132647	131997, 132322, 132647	5MHz	16QAM	Full RB
	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
BAND EDGE	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
	18625 to 19175	18625, 19175	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	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
CONDCUDED EMISSION	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
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK	1 RB, 0 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK	1 RB, 0 RB Offest
	18675 to 19125	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	18615 to 19185	18615, 18900, 19185	10MHz	16QAM	1 RB, 74 RB Offest

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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:

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

Measurement uncertainty (Polarization : Horizontal)	9kHz – 30MHz: +/- 2.87 dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	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.

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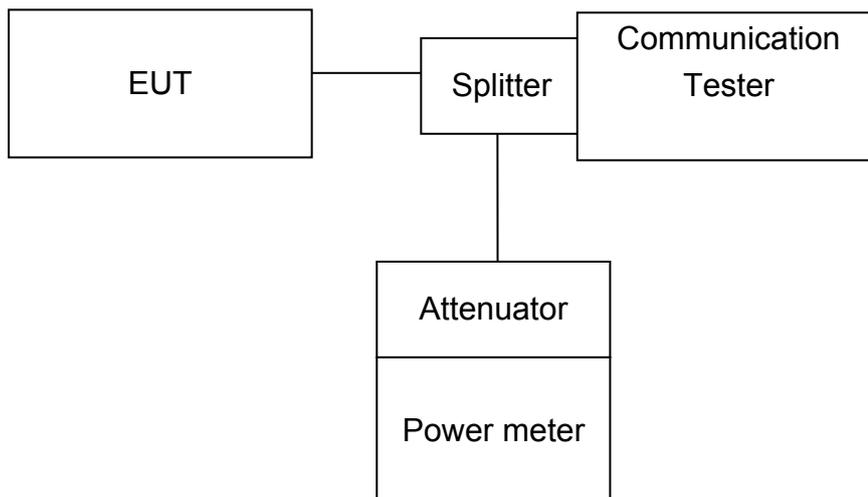
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6. RF CONDUCTED OUTPUT POWER MEASUREMENT

6.1. Standard Applicable

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

6.2. 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.

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

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6.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Radio Communication Analyser	Anritsu	MT8820C	6201465317	2018/01/17	2019/01/16
Attenuator	Mini-Circuit	BW-S10W2+	2	2018/01/02	2019/1/1
Coaxial Cables	N/A	WK CE Cable	N/A	2018/01/02	2019/1/1

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:

BNAD II	Avg. Power (dBm) Channel		
	9262	9400	9538
WCDMA	23.47	22.31	21.77
HSDPA	23.38	22.42	21.67
HSUPA	23.49	22.44	22.02

BNAD IV	Avg. Power (dBm) Channel		
	1312	1413	1513
WCDMA	23.23	22.29	22.21
HSDPA	23.43	22.45	22.00
HSUPA	23.46	22.66	22.13

BNAD V	Avg. Power (dBm) Channel		
	4132	4183	4233
WCDMA	23.23	22.11	21.42
HSDPA	23.41	22.12	21.34
HSUPA	23.34	22.27	21.52

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LTE Result:

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 18607	CH (Mid) 18900	CH (High) 19193	CH (Low) 18607	CH (Mid) 18900	CH (High) 19193
1.4	1	0	23.24	23.18	22.90	22.60	22.31	22.26
	1	5	23.17	23.27	22.82	22.56	22.32	22.29
	3	2	23.17	23.13	22.92	22.01	22.14	21.77
	6	0	22.17	22.15	21.87	21.22	21.28	20.90

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 18615	CH (Mid) 18900	CH (High) 19185	CH (Low) 18615	CH (Mid) 18900	CH (High) 19185
3	1	0	23.11	23.13	22.89	22.78	22.21	22.23
	1	14	22.75	23.15	22.86	22.59	22.28	22.13
	8	4	22.02	22.14	21.87	21.17	21.21	20.93
	15	0	22.13	22.13	21.89	21.15	21.10	20.87

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 18625	CH (Mid) 18900	CH (High) 19175	CH (Low) 18625	CH (Mid) 18900	CH (High) 19175
5	1	0	23.09	23.07	22.93	22.10	22.35	22.19
	1	24	22.65	23.03	22.89	21.84	22.37	22.24
	12	6	23.00	23.05	22.82	22.19	22.21	21.91
	25	0	22.00	22.13	21.87	21.18	21.19	20.87

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LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 18650	CH (Mid) 18900	CH (High) 19150	CH (Low) 18650	CH (Mid) 18900	CH (High) 19150
10	1	0	23.28	23.03	22.81	22.45	22.38	21.70
	1	49	23.07	23.23	22.94	22.42	22.41	22.16
	25	12	21.87	22.13	21.82	21.10	21.27	20.95
	50	0	21.95	22.12	21.97	21.07	21.21	20.62

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 18675	CH (Mid) 18900	CH (High) 19125	CH (Low) 18675	CH (Mid) 18900	CH (High) 19125
15	1	0	22.94	23.16	22.91	22.53	22.02	22.04
	1	74	22.76	23.20	22.95	22.03	22.23	22.15
	36	19	21.93	22.13	21.86	21.02	21.18	20.83
	75	0	21.90	22.11	21.97	21.01	21.15	21.00

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 18700	CH (Mid) 18900	CH (High) 19100	CH (Low) 18700	CH (Mid) 18900	CH (High) 19100
20	1	0	23.08	22.97	23.01	21.91	22.26	22.42
	1	99	22.84	23.03	22.93	21.84	22.37	22.31
	50	25	21.95	22.07	21.84	20.99	21.14	20.79
	100	0	22.13	22.22	21.95	21.14	21.27	21.06

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LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 19957	CH (Mid) 20175	CH (High) 20393	CH (Low) 19957	CH (Mid) 20175	CH (High) 20393
1.4	1	0	22.98	23.15	23.37	22.10	22.42	22.63
	1	5	22.94	23.20	23.37	22.09	22.55	22.25
	3	2	22.90	23.14	23.39	21.99	22.20	22.36
	6	0	22.06	22.12	22.39	21.10	21.17	21.38

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 19965	CH (Mid) 20175	CH (High) 20385	CH (Low) 19965	CH (Mid) 20175	CH (High) 20385
3	1	0	22.95	23.11	23.28	22.56	22.06	22.53
	1	14	23.09	22.92	23.37	22.56	22.06	22.67
	8	4	22.09	22.12	22.27	21.12	21.16	21.36
	15	0	22.06	22.13	22.36	21.06	21.13	21.33

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 19975	CH (Mid) 20175	CH (High) 20375	CH (Low) 19975	CH (Mid) 20175	CH (High) 20375
5	1	0	23.00	23.14	23.39	21.92	22.41	22.60
	1	24	23.07	23.07	23.40	21.93	22.30	22.65
	12	6	23.12	23.02	23.32	22.17	22.16	22.33
	25	0	22.13	22.09	22.31	21.21	21.16	21.33

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 20000	CH (Mid) 20175	CH (High) 20350	CH (Low) 20000	CH (Mid) 20175	CH (High) 20350
10	1	0	23.23	23.19	23.30	22.27	22.36	22.44
	1	49	23.38	23.17	23.41	22.28	22.34	22.45
	25	12	22.18	22.09	22.32	21.29	21.22	21.37
	50	0	22.15	22.10	22.30	21.19	21.21	21.39

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LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 20025	CH (Mid) 20175	CH (High) 20325	CH (Low) 20025	CH (Mid) 20175	CH (High) 20325
15	1	0	22.98	23.45	23.19	22.47	22.25	22.35
	1	74	23.09	23.18	23.44	22.68	22.00	22.34
	36	19	22.16	22.07	22.30	21.32	21.09	21.32
	75	0	22.20	22.12	22.35	21.28	21.12	21.33

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 20050	CH (Mid) 20175	CH (High) 20300	CH (Low) 20050	CH (Mid) 20175	CH (High) 20300
20	1	0	23.12	23.20	23.25	22.06	22.34	21.86
	1	99	23.17	23.02	23.36	22.04	22.07	22.40
	50	25	22.22	22.11	22.19	21.20	21.19	21.25
	100	0	22.38	22.17	22.38	21.45	21.26	21.49

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 20407	CH (Mid) 20525	CH (High) 20643	CH (Low) 20407	CH (Mid) 20525	CH (High) 20643
1.4	1	0	23.47	23.04	23.26	22.75	22.54	22.56
	1	5	23.37	23.04	23.21	22.60	22.42	22.57
	3	2	23.44	23.06	23.16	22.38	22.11	22.30
	6	0	22.44	22.03	22.19	21.35	21.15	21.22

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LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 20415	CH (Mid) 20525	CH (High) 20635	CH (Low) 20415	CH (Mid) 20525	CH (High) 20635
3	1	0	23.38	23.03	22.83	22.64	22.67	22.37
	1	14	23.22	23.00	22.99	22.05	22.59	22.34
	8	4	22.33	22.08	22.25	21.42	21.11	21.36
	15	0	22.33	22.10	22.26	21.30	21.07	21.27

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 20425	CH (Mid) 20525	CH (High) 20625	CH (Low) 20425	CH (Mid) 20525	CH (High) 20625
5	1	0	23.50	23.02	23.03	22.80	22.21	21.85
	1	24	23.24	22.97	23.22	22.39	22.09	22.54
	12	6	22.34	22.08	22.10	21.30	21.11	21.02
	25	0	22.26	22.12	22.16	21.32	21.16	21.01

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 20450	CH (Mid) 20525	CH (High) 20600	CH (Low) 20450	CH (Mid) 20525	CH (High) 20600
10	1	0	23.55	23.18	22.88	21.93	22.46	22.12
	1	49	23.28	23.08	23.28	22.42	22.71	22.45
	25	12	22.19	22.08	22.11	21.37	21.16	21.21
	50	0	22.33	22.07	22.31	21.40	21.19	21.32

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LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 20775	CH (Mid) 21100	CH (High) 21425	CH (Low) 20775	CH (Mid) 21100	CH (High) 21425
5	1	0	22.30	22.73	22.90	21.56	21.89	22.48
	1	24	22.58	22.80	22.98	21.54	21.46	22.44
	12	6	21.66	21.81	22.04	20.65	20.86	21.01
	25	0	21.65	21.81	22.06	20.70	20.79	21.09

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 20800	CH (Mid) 21100	CH (High) 21400	CH (Low) 20800	CH (Mid) 21100	CH (High) 21400
10	1	0	22.13	22.75	22.52	21.37	21.70	21.38
	1	49	22.30	23.01	23.08	21.84	21.60	21.70
	25	12	21.68	21.88	22.06	20.76	20.91	21.20
	50	0	21.73	21.88	22.14	20.60	20.87	21.19

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 20825	CH (Mid) 21100	CH (High) 21375	CH (Low) 20825	CH (Mid) 21100	CH (High) 21375
15	1	0	22.52	22.66	22.49	21.69	21.53	22.09
	1	74	22.69	22.97	23.06	21.85	21.80	21.88
	36	19	21.70	21.87	22.03	20.74	20.85	21.09
	75	0	21.51	21.89	22.09	20.64	20.88	21.08

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 20850	CH (Mid) 21100	CH (High) 21350	CH (Low) 20850	CH (Mid) 21100	CH (High) 21350
20	1	0	22.55	22.64	22.55	21.91	21.69	21.76
	1	99	22.66	23.04	23.09	21.40	22.16	22.30
	50	25	21.71	21.84	22.04	20.56	20.87	21.07
	100	0	21.69	21.93	22.17	20.75	21.02	21.20

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LTE Band 12_Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 23017	CH (Mid) 23095	CH (High) 23173	CH (Low) 23017	CH (Mid) 23095	CH (High) 23173
1.4	1	0	22.76	23.02	22.86	22.04	22.23	22.52
	1	5	22.87	22.92	22.81	22.14	22.21	22.60
	3	2	23.01	22.98	22.93	22.06	22.27	22.23
	6	0	22.05	22.01	22.00	21.13	21.18	21.08

LTE Band 12_Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 23025	CH (Mid) 23095	CH (High) 23165	CH (Low) 23025	CH (Mid) 23095	CH (High) 23165
3	1	0	22.96	23.07	22.94	22.69	22.61	22.59
	1	14	23.13	22.86	22.85	22.83	22.37	22.17
	8	4	22.20	22.04	22.02	21.25	21.18	21.17
	15	0	22.15	22.05	22.01	21.21	21.08	21.20

LTE Band 12_Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 23035	CH (Mid) 23095	CH (High) 23155	CH (Low) 23035	CH (Mid) 23095	CH (High) 23155
5	1	0	23.02	22.86	23.22	22.49	22.22	22.70
	1	24	23.19	23.16	23.10	22.56	22.00	22.50
	12	6	22.21	22.07	22.13	21.29	21.08	21.28
	25	0	22.17	22.07	22.12	21.22	21.20	21.21

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LTE Band 12_Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 23060	CH (Mid) 23095	CH (High) 23130	CH (Low) 23060	CH (Mid) 23095	CH (High) 23130
10	1	0	23.05	23.20	22.84	22.27	21.36	22.37
	1	49	23.14	23.35	23.12	22.06	22.50	22.47
	25	12	22.23	22.15	22.27	21.38	21.34	21.37
	50	0	22.27	22.17	22.35	21.41	21.30	21.22

LTE Band 13_Uplink frequency band : 777 to 787 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 23205	CH (Mid) 23230	CH (High) 23255	CH (Low) 23205	CH (Mid) 23230	CH (High) 23255
5	1	0	23.22	23.11	23.24	22.24	21.74	22.83
	1	24	23.24	23.25	23.28	22.62	21.80	23.00
	12	6	22.04	22.08	22.22	21.10	21.14	21.28
	25	0	21.85	22.25	22.28	21.02	21.30	21.23

LTE Band 13_Uplink frequency band : 777 to 787 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Mid) 23230			CH (Mid) 23230		
10	1	0	23.17			22.36		
	1	49	23.44			22.37		
	25	12	22.19			21.33		
	50	0	22.38			21.51		

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LTE Band 17_Uplink frequency band : 704 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 23755	CH (Mid) 23790	CH (High) 23825	CH (Low) 23755	CH (Mid) 23790	CH (High) 23825
5	1	0	23.13	22.71	23.16	22.52	22.14	22.55
	1	24	23.06	23.21	23.04	22.30	22.73	21.92
	12	6	22.05	22.04	22.13	21.20	21.13	21.22
	25	0	22.09	22.13	22.15	21.17	21.24	21.23

LTE Band 17_Uplink frequency band : 704 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 23780	CH (Mid) 23790	CH (High) 23800	CH (Low) 23780	CH (Mid) 23790	CH (High) 23800
10	1	0	23.23	23.05	23.03	22.37	21.79	22.31
	1	49	23.33	23.16	23.09	22.05	22.07	22.44
	25	12	22.18	22.19	22.26	21.29	21.28	21.24
	50	0	22.24	22.31	22.38	21.32	21.34	21.49

LTE Band 26_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 26797	CH (Mid) 26915	CH (High) 27033	CH (Low) 26797	CH (Mid) 26915	CH (High) 27033
1.4	1	0	23.34	23.08	23.03	22.73	22.24	22.61
	1	5	23.34	23.07	23.12	22.76	22.26	22.56
	3	2	23.33	23.05	23.09	22.45	22.16	22.30
	6	0	22.36	22.10	22.07	21.41	21.26	21.22

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LTE Band 26_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 26805	CH (Mid) 26915	CH (High) 27025	CH (Low) 26805	CH (Mid) 26915	CH (High) 27025
3	1	0	23.30	23.08	23.09	22.63	22.43	22.21
	1	14	23.30	23.07	23.16	22.84	22.44	22.29
	8	4	22.34	22.05	22.17	21.38	21.17	21.27
	15	0	22.36	22.07	22.12	21.52	21.21	21.12

LTE Band 26_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 26815	CH (Mid) 26915	CH (High) 27015	CH (Low) 26815	CH (Mid) 26915	CH (High) 27015
5	1	0	23.36	23.08	22.87	22.34	21.60	21.91
	1	24	23.46	23.11	23.15	22.54	21.91	22.39
	12	6	22.46	22.09	22.10	21.38	21.11	21.13
	25	0	22.41	22.07	22.05	21.52	21.23	21.17

LTE Band 26_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 26840	CH (Mid) 26915	CH (High) 26990	CH (Low) 26840	CH (Mid) 26915	CH (High) 26990
10	1	0	23.41	23.24	22.89	22.56	21.79	22.34
	1	49	23.57	23.13	23.29	23.09	21.77	22.51
	25	12	22.64	22.18	22.11	21.65	21.20	21.18
	50	0	22.66	22.19	22.25	21.74	21.22	21.28

LTE Band 26_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 26865	CH (Mid) 26915	CH (High) 26965	CH (Low) 26865	CH (Mid) 26915	CH (High) 26965
15	1	0	23.34	23.38	22.70	22.29	22.79	22.00
	1	74	23.27	23.04	23.25	21.94	22.25	22.30
	36	19	22.56	22.23	21.99	21.50	21.18	21.02
	75	0	22.67	22.29	22.23	21.70	21.34	21.24

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Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 26697	CH (Mid) 26740	CH (High) 26783	CH (Low) 26697	CH (Mid) 26740	CH (High) 26783
1.4	1	0	23.47	23.49	23.47	22.55	22.41	22.01
	1	5	23.38	23.51	23.43	22.65	22.64	22.13
	3	2	23.36	23.52	23.52	22.48	22.51	22.56
	6	0	22.49	22.57	22.46	21.38	21.60	21.54

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 26705	CH (Mid) 26740	CH (High) 26775	CH (Low) 26705	CH (Mid) 26740	CH (High) 26775
3	1	0	23.38	23.34	23.52	22.93	22.57	22.81
	1	14	23.41	23.42	23.51	22.99	22.85	22.70
	8	4	22.40	22.55	22.48	21.48	21.53	21.61
	15	0	22.41	22.54	22.49	21.48	21.54	21.60

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 26715	CH (Mid) 26740	CH (High) 26765	CH (Low) 26715	CH (Mid) 26740	CH (High) 26765
5	1	0	23.37	23.46	23.49	22.75	22.90	22.53
	1	24	23.48	23.58	23.53	22.88	22.96	22.50
	12	6	22.46	22.54	22.53	21.57	21.58	21.45
	25	0	22.49	22.46	22.59	21.38	21.52	21.71

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Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz				
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)	
			QPSK	
			CH (Mid) 26740	16QAM CH (Mid) 26740
10	1	0	23.34	22.29
	1	49	23.62	22.61
	25	12	22.60	21.66
	50	0	22.61	21.61

LTE Band 30_Uplink frequency band : 2305 to 2315 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 27685	CH (Mid) 27710	CH (High) 27735	CH (Low) 27685	CH (Mid) 27710	CH (High) 27735
5	1	0	22.64	22.68	22.32	21.80	21.55	21.92
	1	24	22.84	22.75	22.70	21.82	21.49	21.75
	12	6	21.88	21.80	21.78	20.84	20.92	20.76
	25	0	21.90	21.89	21.64	20.90	20.94	20.76

LTE Band 30_Uplink frequency band : 2305 to 2315 MHz				
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)	
			QPSK	
			CH (Mid) 27710	16QAM CH (Mid) 27710
10	1	0	22.94	22.10
	1	49	22.78	21.58
	25	12	22.01	20.88
	50	0	21.97	21.03

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LTE Band 38_Uplink frequency band : 2570 to 2620 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 37775	CH (Mid) 38000	CH (High) 38225	CH (Low) 37775	CH (Mid) 38000	CH (High) 38225
5	1	0	22.78	22.67	23.06	21.19	21.19	21.60
	1	24	22.96	22.07	23.10	21.20	21.24	21.38
	12	6	21.87	21.86	22.05	21.02	21.02	21.19
	25	0	21.89	21.89	22.08	20.94	20.94	21.13

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 37800	CH (Mid) 38000	CH (High) 38200	CH (Low) 37800	CH (Mid) 38000	CH (High) 38200
10	1	0	23.03	23.06	23.12	21.54	21.67	21.90
	1	49	23.04	23.13	23.13	21.27	21.58	21.97
	25	12	21.90	21.97	22.06	21.05	21.07	21.04
	50	0	21.90	21.96	22.05	20.96	20.99	20.95

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 37825	CH (Mid) 38000	CH (High) 38175	CH (Low) 37825	CH (Mid) 38000	CH (High) 38175
15	1	0	22.96	22.98	23.06	21.95	21.25	21.96
	1	74	22.98	23.07	23.16	22.12	21.27	21.87
	36	19	21.88	21.94	22.05	21.02	20.85	21.16
	75	0	21.94	21.95	22.06	20.91	20.83	21.06

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 37850	CH (Mid) 38000	CH (High) 38150	CH (Low) 37850	CH (Mid) 38000	CH (High) 38150
20	1	0	22.93	23.02	23.11	21.63	22.06	22.17
	1	99	22.97	23.13	23.18	22.10	22.22	22.31
	50	25	21.80	21.88	21.98	20.83	20.90	21.01
	100	0	21.81	21.94	22.03	20.86	20.95	20.99

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LTE Band 41_Uplink frequency band : 2496 to 2690 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 39675	CH (Mid) 40620	CH (High) 41565	CH (Low) 39675	CH (Mid) 40620	CH (High) 41565
5	1	0	22.20	22.63	21.97	21.21	21.14	21.64
	1	24	22.22	22.68	22.01	21.14	21.18	21.70
	12	6	21.20	21.58	21.31	20.37	20.75	20.49
	25	0	21.17	21.62	21.35	20.30	20.67	20.43

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 39700	CH (Mid) 40620	CH (High) 41540	CH (Low) 39700	CH (Mid) 40620	CH (High) 41540
10	1	0	22.35	22.77	22.61	21.40	21.85	21.51
	1	49	22.37	22.82	22.69	21.47	21.92	21.60
	25	12	21.20	21.62	21.45	20.30	20.77	20.53
	50	0	21.24	21.58	21.44	20.24	20.68	20.47

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 39725	CH (Mid) 40620	CH (High) 41515	CH (Low) 39725	CH (Mid) 40620	CH (High) 41515
15	1	0	22.29	22.27	22.45	21.39	21.76	21.50
	1	74	22.42	22.77	22.56	21.53	21.68	21.45
	36	19	21.33	21.60	21.37	20.30	20.68	20.46
	75	0	21.27	21.63	21.43	20.25	20.59	20.38

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LTE Band 41_Uplink frequency band : 2496 to 2690 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 39750	CH (Mid) 40620	CH (High) 41490	CH (Low) 39750	CH (Mid) 40620	CH (High) 41490
20	1	0	22.34	22.71	22.55	21.42	21.78	21.58
	1	99	22.58	22.85	22.52	21.66	21.94	21.60
	50	25	21.32	21.58	21.36	20.28	20.61	20.38
	100	0	21.40	21.63	21.45	20.39	20.61	20.42

LTE Band 66_Uplink frequency band : 1709 to 1780 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 131979	CH (Mid) 132322	CH (High) 132665	CH (Low) 131979	CH (Mid) 132322	CH (High) 132665
1.4	1	0	22.88	22.87	22.43	22.28	22.35	22.37
	1	5	22.86	23.12	22.13	22.07	22.33	22.39
	3	2	22.69	22.69	22.62	21.93	21.89	21.76
	6	0	21.49	21.88	21.76	20.34	20.64	20.80

LTE Band 66_Uplink frequency band : 1709 to 1780 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 131987	CH (Mid) 132322	CH (High) 132657	CH (Low) 131987	CH (Mid) 132322	CH (High) 132657
3	1	0	22.30	22.77	23.07	22.37	22.05	22.10
	1	14	22.32	22.71	23.08	22.44	21.88	22.25
	8	4	21.76	21.81	21.78	20.43	20.56	20.83
	15	0	21.38	21.86	21.95	20.76	20.83	20.79

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LTE Band 66_Uplink frequency band : 1709 to 1780 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)
			131997	132322	132647	131997	132322	132647
5	1	0	22.11	22.68	22.91	22.25	22.61	22.26
	1	24	22.45	22.56	23.06	22.45	22.58	22.43
	12	6	21.57	21.59	21.82	20.79	20.84	20.81
	25	0	21.93	21.94	21.94	20.91	20.85	20.81

LTE Band 66_Uplink frequency band : 1709 to 1780 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)
			132022	132322	132622	132022	132322	132622
10	1	0	22.91	22.82	23.01	21.63	22.27	21.91
	1	49	23.05	23.07	23.15	22.07	22.43	22.54
	25	12	21.86	21.87	21.83	20.73	20.76	20.76
	50	0	22.05	22.00	22.05	21.02	20.94	20.96

LTE Band 66_Uplink frequency band : 1709 to 1780 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)
			132047	132322	132597	132047	132322	132597
15	1	0	22.78	22.70	23.08	22.30	22.36	22.09
	1	74	22.87	22.88	22.77	22.30	22.53	22.00
	36	19	22.00	21.97	21.87	20.88	20.85	20.79
	75	0	22.12	22.07	22.01	21.08	20.99	20.97

LTE Band 66_Uplink frequency band : 1709 to 1780 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low)	CH (Mid)	CH (High)	CH (Low)	CH (Mid)	CH (High)
			132072	132322	132572	132072	132322	132572
20	1	0	22.09	22.87	22.38	22.41	22.68	22.05
	1	99	22.15	22.98	22.90	22.36	22.80	22.14
	50	25	22.07	21.97	22.02	21.02	20.97	20.86
	100	0	22.24	22.20	22.25	21.25	21.19	21.24

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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	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1, 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.

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Results:

Mode	Sub test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		9262	9400	9538		
HSDPA II	1	21.07	21.29	20.93	20.3dBm – 25.7dBm	Pass
	2	21.36	21.55	21.18	20.3dBm – 25.7dBm	Pass
	3	21.12	20.89	20.64	19.8dBm – 25.7dBm	Pass
	4	21.03	20.81	20.63	19.8dBm – 25.7dBm	Pass

Mode	Sub test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		1312	1413	1513		
HSDPA IV	1	20.93	20.68	20.63	20.3dBm – 25.7dBm	Pass
	2	21.30	20.93	20.84	20.3dBm – 25.7dBm	Pass
	3	21.10	20.67	20.55	19.8dBm – 25.7dBm	Pass
	4	21.03	20.87	20.43	19.8dBm – 25.7dBm	Pass

Mode	Sub test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		4132	4183	4233		
HSDPA V	1	22.90	22.78	22.10	20.3dBm – 25.7dBm	Pass
	2	22.81	22.84	22.00	20.3dBm – 25.7dBm	Pass
	3	22.49	22.36	21.94	19.8dBm – 25.7dBm	Pass
	4	22.67	22.46	21.85	19.8dBm – 25.7dBm	Pass

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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	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS}	β_{ec}	β_{ed}	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	209/225	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	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	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.

Results:

Mode	Sub test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		9262	9400	9538		
HSUPA II	1	20.54	20.66	21.28	18.8dBm – 25.7dBm	Pass
	2	21.03	20.68	21.40	16.8dBm – 25.7dBm	Pass
	3	21.44	20.98	20.68	17.8dBm – 25.7dBm	Pass
	4	21.20	21.28	20.85	16.8dBm – 25.7dBm	Pass
	5	21.12	21.37	21.06	18.8dBm – 25.7dBm	Pass

Mode	Sub test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		4132	4183	4233		
HSUPA V	1	21.16	21.42	20.97	18.8dBm – 25.7dBm	Pass
	2	20.55	21.20	21.05	16.8dBm – 25.7dBm	Pass
	3	21.14	21.20	21.29	17.8dBm – 25.7dBm	Pass
	4	20.85	20.91	21.46	16.8dBm – 25.7dBm	Pass
	5	20.99	20.58	21.48	18.8dBm – 25.7dBm	Pass

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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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7. EFFECTIVE RADIATED POWER AND EQUIVALENT ISOTROPIC RADIATED POWER MEASUREMENT

7.1. Standard Applicable

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(b)(10) Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

FCC 27.50(c)(10) Portable stations (hand-held devices) are limited to 3 watts ERP.

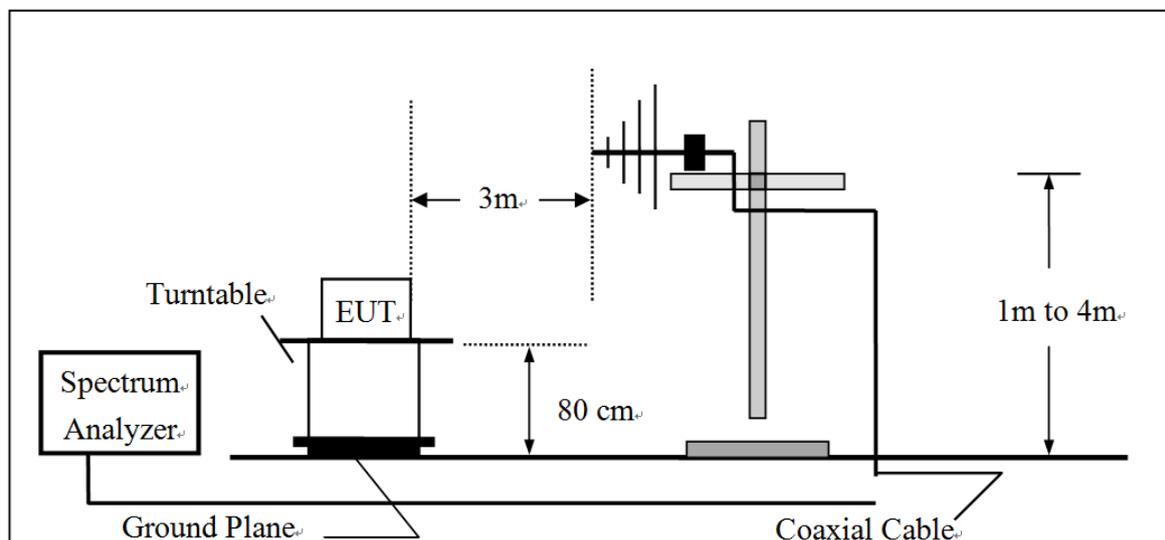
FCC 27.50(d)(4) Fixed, mobile, and portable (hand-held) stations are limited to 1W EIRP.

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

7.2. Test SET-UP

(A) Radiated Power Test Set-Up, Frequency Below 1000MHz



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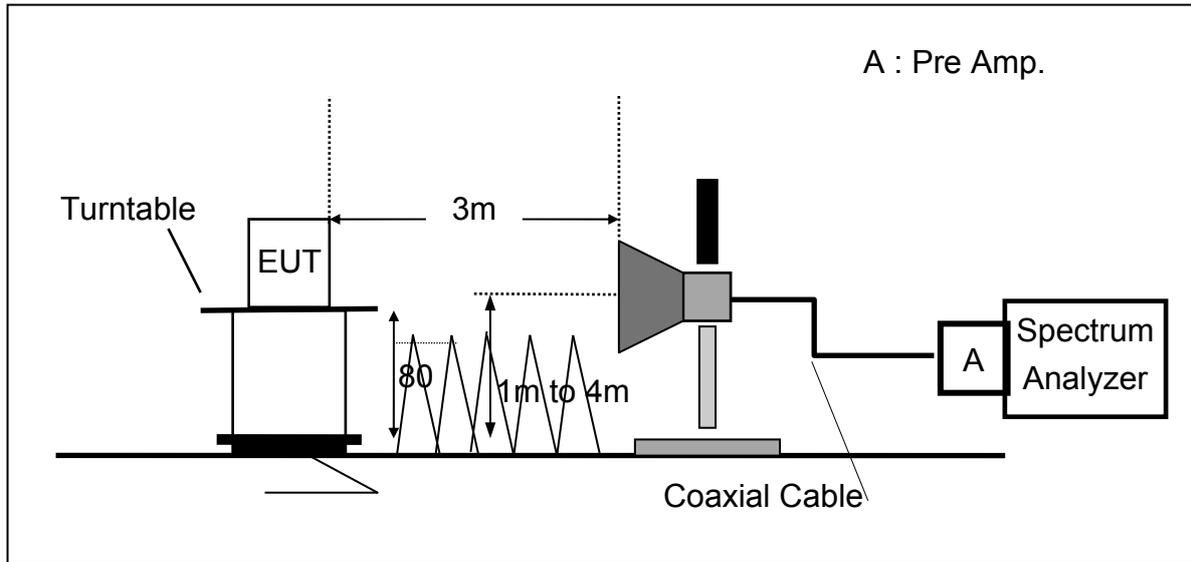
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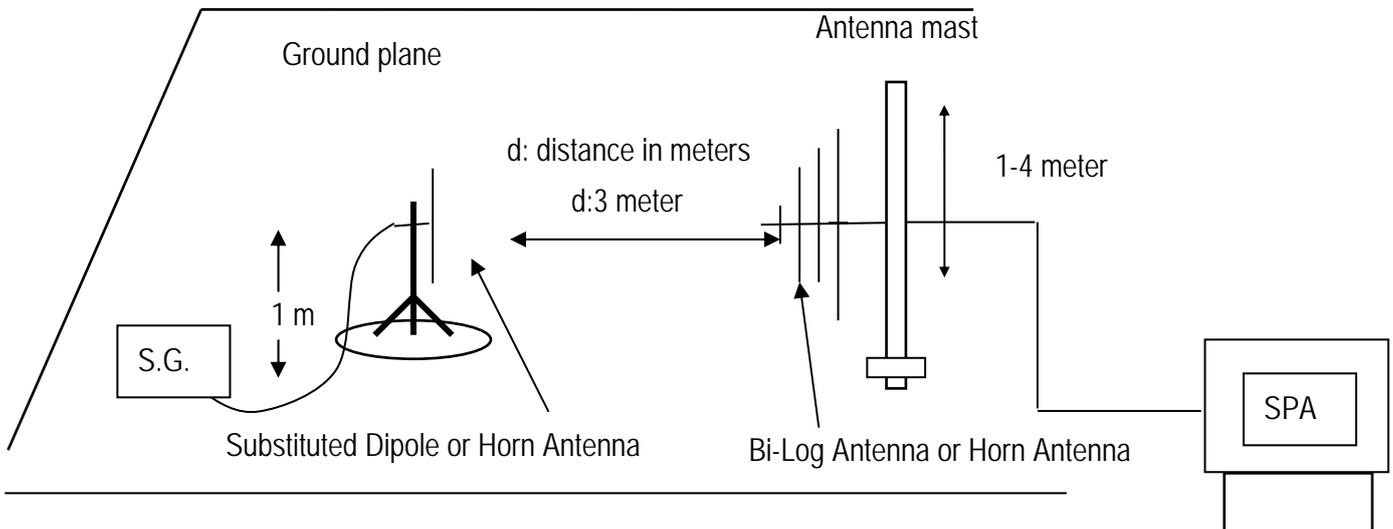
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(B) Radiated Power Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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7.3. Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 971168 D01
2. The EUT was placed on a non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.
3. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated
4. The testing follows the Measurement Procedure of FCC KDB 971168 D01
5. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G.
6. ERP = S.G. output (dBm) + Antenna Gain (dBd) – Cable Loss (dB)
7. EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable Loss (dB)
8. Spectrum setting:
 - (1) Detector = Peak, marker the highest value of the detector by maximum hold, set RBW wide enough to capture the entire signal of emission, and VBW > =3xRBW.
 - (2) KDB 971168 D01 is adopted, and the procedure as lists under item 4, Measurement of the Average Power over the Fundamental Signal Bandwidth, is followed to set correspondingly for the acquisition of proper measurement data.

Set frequency = nominal signal center frequency;
 Set span = 2 X occupied BW;
 Set RBW ≈ 1~5% of the span, not to exceed 1 MHz
 Set VBW = 3 x RBW;
 Select average power (RMS) detector
 Set sweep time and number of measurement points to achieve a minimum of 1 millisecond/pt integration time (ex. Point = 601points, then sweep time = 601*10⁻³ = 6s.

Activate trace averaging routine over a minimum of 10 sweeps;

Activate marker/span pair and set span = signal or channel bandwidth;

Activate the band/interval power marker function;

Record the band power level;

Record adjusted value as the average signal power level. Then activate the occupied bandwidth measurement function.

The proper adjustment due to limitation of spectrum capability is given compensated to spectrum with conversion factor of 10*log (TBW/RBW), where TBW is the transmission of UE exceeding the maximum BW UE can extends, and RBW is the resolution BW in UE.

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7.4. Measurement Equipment Used

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWAZBECK	VULB9168	378	2017/12/29	2018/12/28
Bi-log Antenna	SCHWAZBECK	VULB9168	300	2017/12/20	2018/12/19
Horn Antenna	Schwarzbeck	BBHA9120D	309	2018/01/04	2019/1/3
Horn Antenna	Schwarzbeck	BBHA9120D	1441	2017/08/04	2018/8/3
Spectrum Analyzer	Agilent	E4446A	MY51100003	2017/05/10	2018/5/9
EMI Test Receiver	R&S	ESC17	100760	2017/06/06	2018/6/5
Network Analyze	Anritsu	MS4644A	1216312	2017/05/25	2018/5/24
Radio Communication Analyzer	Anritsu	MT8820C	6201465317	01/15/2018	01/14/2019
Pre-Amplifier	HP	8449B	3008A00578	2018/01/02	2019/1/1
Pre-Amplifier	HP	8447D	2944A07676	2018/01/02	2019/1/1
Attenuator	Mini-Circuit	BW-S10W2+		2018/01/02	2019/1/1
Filter 800-1000	Micro-Tronics	EWT	M1	2018/01/02	2019/1/1
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	2018/01/02	2019/1/1
Low Loss Cable	Huber Suhner	966_RX	9	2018/01/02	2019/1/1
Low Loss Cable	Huber Suhner	966 TX	1	2018/01/02	2019/1/1

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7.5. Measurement Result: (Peak) –using option of peak measurement

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
WCDMA Band II	1852.4	9262	V	9.3	9.95	-4.46	14.79	33.00
			H	14.75	9.95	-4.46	20.24	33.00
	1880.0	9400	V	7.3	10.03	-4.51	12.82	33.00
			H	13.73	10.03	-4.51	19.25	33.00
	1907.6	9538	V	7.45	10.12	-4.55	13.02	33.00
			H	14.2	10.12	-4.55	19.77	33.00
HSDPA Band II	1852.4	9262	V	9.8	9.95	-4.46	15.29	33.00
			H	15.46	9.95	-4.46	20.95	33.00
	1880.0	9400	V	7.68	10.03	-4.51	13.2	33.00
			H	13.81	10.03	-4.51	19.33	33.00
	1907.6	9538	V	7.81	10.12	-4.55	13.38	33.00
			H	14.79	10.12	-4.55	20.36	33.00
HSUPA Band II	1852.4	9262	V	9.17	9.94	-4.46	14.65	33.00
			H	14.48	9.94	-4.46	19.96	33.00
	1880.0	9400	V	7.85	10.04	-4.51	13.38	33.00
			H	13.46	10.03	-4.51	18.98	33.00
	1907.6	9538	V	7.33	10.12	-4.55	12.9	33.00
			H	14.75	10.12	-4.55	20.32	33.00

Remark : (1)The RBW,VBW of SPA for frequency RBW=300 KHz, VBW=1MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
WCDMA Band IV	1712.4	1312	V	12.27	9.49	-4.31	17.45	30.00
			H	15.03	9.48	-4.31	20.2	30.00
	1732.6	1413	V	12.31	9.55	-4.31	17.55	30.00
			H	15.94	9.55	-4.31	21.18	30.00
	1752.6	1513	V	11.9	9.62	-4.33	17.19	30.00
			H	15.53	9.62	-4.33	20.82	30.00
HSDPA Band IV	1712.4	1312	V	12.65	9.48	-4.31	17.82	30.00
			H	15.73	9.48	-4.31	20.9	30.00
	1732.6	1413	V	12.27	9.55	-4.31	17.51	30.00
			H	15.83	9.55	-4.31	21.07	30.00
	1752.6	1513	V	11.85	9.62	-4.34	17.13	30.00
			H	16.4	9.62	-4.33	21.69	30.00
HSUPA Band IV	1712.4	1312	V	14.13	9.48	-4.31	19.3	30.00
			H	16.4	9.48	-4.31	21.57	30.00
	1732.6	1413	V	15.02	9.55	-4.31	20.26	30.00
			H	15.45	9.56	-4.31	20.7	30.00
	1752.6	1513	V	15.21	9.62	-4.34	20.49	30.00
			H	16.66	9.62	-4.34	21.94	30.00

Remark : (1)The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
WCDMA Band V	826.4	4132	V	10.73	3.3	-2.93	11.1	38.45
			H	18.15	3.3	-2.93	18.52	38.45
	836.6	4183	V	9.94	3.29	-2.96	10.27	38.45
			H	18.3	3.29	-2.96	18.63	38.45
	846.6	4233	V	8.98	3.27	-2.99	9.26	38.45
			H	18.15	3.27	-2.99	18.43	38.45
HSDPA Band V	826.4	4132	V	11.24	3.3	-2.93	11.61	38.45
			H	18.61	3.3	-2.93	18.98	38.45
	836.6	4183	V	10.75	3.29	-2.96	11.08	38.45
			H	18.48	3.29	-2.96	18.81	38.45
	846.6	4233	V	9.58	3.27	-2.99	9.86	38.45
			H	18.71	3.27	-2.99	18.99	38.45
HSUPA Band V	826.4	4132	V	10.64	3.3	-2.93	11.01	38.45
			H	18.74	3.3	-2.93	19.11	38.45
	836.6	4183	V	10.16	3.29	-2.96	10.49	38.45
			H	18.75	3.29	-2.97	19.07	38.45
	846.6	4233	V	9.07	3.27	-2.99	9.35	38.45
			H	19.83	3.27	-3	20.1	38.45

Remark : (1)The RBW,VBW of SPA for frequency RBW=300 KHz, VBW=1MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 2 BW: 1.4M QPSK RB: 1,0	1850.7	18607	V	19.52	9.77	-4.67	24.62	33.01
			H	14.16	9.77	-4.67	19.27	33.01
	1880.0	18900	V	19.39	9.85	-4.69	24.54	33.01
			H	14.53	9.85	-4.69	19.68	33.01
1909.3	19193	V	18.34	9.94	-4.72	23.55	33.01	
		H	13.98	9.94	-4.72	19.2	33.01	
LTE BAND 2 BW: 1.4M QPSK RB: 1,5	1850.7	18607	V	19.35	9.77	-4.66	24.45	33.01
			H	14.07	9.77	-4.66	19.17	33.01
	1880.0	18900	V	19.15	9.85	-4.7	24.31	33.01
			H	14.39	9.85	-4.7	19.55	33.01
1909.3	19193	V	18.38	9.94	-4.72	23.6	33.01	
		H	13.96	9.94	-4.72	19.17	33.01	
LTE BAND 2 BW: 1.4M 16QAM RB: 1,0	1850.7	18607	V	19.95	9.77	-4.67	25.05	33.01
			H	14.32	9.77	-4.67	19.43	33.01
	1880.0	18900	V	18.74	9.85	-4.69	23.9	33.01
			H	13.99	9.85	-4.69	19.14	33.01
1909.3	19193	V	18.52	9.94	-4.72	23.73	33.01	
		H	14.08	9.94	-4.72	19.29	33.01	
LTE BAND 2 BW: 1.4M 16QAM RB: 1,5	1850.7	18607	V	20.06	9.77	-4.66	25.16	33.01
			H	14.51	9.77	-4.66	19.61	33.01
	1880.0	18900	V	18.96	9.85	-4.7	24.12	33.01
			H	14.27	9.85	-4.69	19.42	33.01
1909.3	19193	V	18.81	9.94	-4.72	24.03	33.01	
		H	14.23	9.94	-4.72	19.44	33.01	

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 2 BW: 3M QPSK RB: 1,0	1851.5	18615	V	19.51	9.77	-4.67	24.62	33.01
			H	14.11	9.77	-4.67	19.22	33.01
	1880.0	18900	V	19.25	9.85	-4.69	24.41	33.01
			H	14.32	9.85	-4.69	19.48	33.01
	1908.5	19185	V	17.79	9.93	-4.72	23	33.01
			H	13.51	9.93	-4.72	18.72	33.01
LTE BAND 2 BW: 3M QPSK RB: 1,14	1851.5	18615	V	19.65	9.77	-4.67	24.75	33.01
			H	14.39	9.77	-4.66	19.49	33.01
	1880.0	18900	V	19.18	9.85	-4.7	24.34	33.01
			H	14.45	9.85	-4.7	19.61	33.01
	1908.5	19185	V	18.28	9.94	-4.72	23.5	33.01
			H	13.85	9.94	-4.72	19.07	33.01
LTE BAND 2 BW: 3M 16QAM RB: 1,0	1851.5	18615	V	19.83	9.77	-4.67	24.94	33.01
			H	14.51	9.77	-4.67	19.62	33.01
	1880.0	18900	V	18.78	9.85	-4.69	23.94	33.01
			H	13.73	9.85	-4.69	18.88	33.01
	1908.5	19185	V	18.16	9.93	-4.72	23.37	33.01
			H	13.91	9.93	-4.72	19.12	33.01
LTE BAND 2 BW: 3M 16QAM RB: 1,14	1851.5	18615	V	20.03	9.77	-4.66	25.13	33.01
			H	14.98	9.77	-4.67	20.09	33.01
	1880.0	18900	V	19.26	9.85	-4.7	24.42	33.01
			H	14.52	9.86	-4.7	19.67	33.01
	1908.5	19185	V	18.94	9.94	-4.72	24.16	33.01
			H	14.55	9.94	-4.72	19.77	33.01

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 2 BW: 5M QPSK RB: 1,0	1852.5	18625	V	19.27	9.77	-4.67	24.37	33.01
			H	13.82	9.77	-4.67	18.93	33.01
	1880.0	18900	V	19.11	9.84	-4.69	24.26	33.01
			H	13.99	9.84	-4.69	19.15	33.01
	1907.5	19175	V	17.24	9.93	-4.72	22.45	33.01
			H	13.06	9.93	-4.72	18.27	33.01
LTE BAND 2 BW: 5M QPSK RB: 1,24	1852.5	18625	V	19.45	9.78	-4.67	24.56	33.01
			H	14.15	9.77	-4.67	19.25	33.01
	1880.0	18900	V	18.85	9.86	-4.7	24.01	33.01
			H	14.19	9.86	-4.7	19.35	33.01
	1907.5	19175	V	18.01	9.94	-4.72	23.23	33.01
			H	13.62	9.94	-4.72	18.83	33.01
LTE BAND 2 BW: 5M 16QAM RB: 1,0	1852.5	18625	V	20.01	9.77	-4.67	25.11	33.01
			H	14.24	9.77	-4.67	19.35	33.01
	1880.0	18900	V	18.44	9.84	-4.69	23.59	33.01
			H	13.51	9.84	-4.69	18.66	33.01
	1907.5	19175	V	17.32	9.93	-4.72	22.53	33.01
			H	13.09	9.93	-4.72	18.3	33.01
LTE BAND 2 BW: 5M 16QAM RB: 1,24	1852.5	18625	V	20.41	9.78	-4.67	25.52	33.01
			H	14.88	9.78	-4.67	19.99	33.01
	1880.0	18900	V	19.17	9.86	-4.7	24.33	33.01
			H	14.6	9.86	-4.7	19.76	33.01
	1907.5	19175	V	18.58	9.94	-4.72	23.8	33.01
			H	14.24	9.94	-4.72	19.46	33.01

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 2 BW: 10M QPSK RB: 1,0	1855.0	18650	V	19.17	9.77	-4.67	24.28	33.01
			H	13.78	9.77	-4.67	18.88	33.01
	1880.0	18900	V	18.65	9.84	-4.69	23.79	33.01
			H	13.54	9.84	-4.69	18.69	33.01
	1905.0	19150	V	17.3	9.91	-4.71	22.5	33.01
			H	13.04	9.91	-4.71	18.24	33.01
LTE BAND 2 BW: 10M QPSK RB: 1,49	1855.0	18650	V	19.71	9.79	-4.67	24.83	33.01
			H	14.5	9.79	-4.67	19.62	33.01
	1880.0	18900	V	18.83	9.86	-4.7	24	33.01
			H	14.4	9.86	-4.7	19.56	33.01
	1905.0	19150	V	17.96	9.94	-4.72	23.17	33.01
			H	13.66	9.94	-4.72	18.88	33.01
LTE BAND 2 BW: 10M 16QAM RB: 1,0	1855.0	18650	V	19.69	9.77	-4.67	24.8	33.01
			H	14.38	9.77	-4.67	19.49	33.01
	1880.0	18900	V	17.7	9.84	-4.69	22.85	33.01
			H	12.65	9.84	-4.69	17.8	33.01
	1905.0	19150	V	17.25	9.91	-4.71	22.45	33.01
			H	13.1	9.91	-4.71	18.3	33.01
LTE BAND 2 BW: 10M 16QAM RB: 1,49	1855.0	18650	V	20.21	9.79	-4.67	25.32	33.01
			H	14.92	9.79	-4.67	20.04	33.01
	1880.0	18900	V	19.36	9.86	-4.7	24.52	33.01
			H	15.14	9.86	-4.7	20.3	33.01
	1905.0	19150	V	18.71	9.94	-4.72	23.92	33.01
			H	14.31	9.94	-4.72	19.53	33.01

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 2 BW: 15M QPSK RB: 1,0	1857.5	18675	V	19.06	9.77	-4.67	24.17	33.01
			H	13.76	9.77	-4.66	18.87	33.01
	1880.0	18900	V	18.22	9.83	-4.69	23.36	33.01
			H	13.06	9.83	-4.69	18.2	33.01
1902.5	19125	V	18.29	9.9	-4.71	23.48	33.01	
		H	14.13	9.9	-4.71	19.32	33.01	
LTE BAND 2 BW: 15M QPSK RB: 1,74	1857.5	18675	V	19.07	9.8	-4.68	24.2	33.01
			H	13.71	9.8	-4.68	18.83	33.01
	1880.0	18900	V	18.81	9.87	-4.7	23.98	33.01
			H	14.48	9.87	-4.7	19.65	33.01
1902.5	19125	V	17.78	9.94	-4.72	23	33.01	
		H	13.52	9.94	-4.72	18.74	33.01	
LTE BAND 2 BW: 15M 16QAM RB: 1,0	1857.5	18675	V	19.63	9.77	-4.67	24.73	33.01
			H	14.33	9.77	-4.67	19.44	33.01
	1880.0	18900	V	17.33	9.83	-4.69	22.47	33.01
			H	12.02	9.83	-4.69	17.16	33.01
1902.5	19125	V	18.44	9.9	-4.71	23.63	33.01	
		H	14.17	9.9	-4.71	19.36	33.01	
LTE BAND 2 BW: 15M 16QAM RB: 1,74	1857.5	18675	V	19.14	9.8	-4.68	24.26	33.01
			H	13.84	9.8	-4.68	18.97	33.01
	1880.0	18900	V	19.68	9.87	-4.7	24.84	33.01
			H	15.13	9.87	-4.7	20.3	33.01
1902.5	19125	V	18.33	9.94	-4.72	23.55	33.01	
		H	13.88	9.94	-4.72	19.1	33.01	

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 2 BW: 20M QPSK RB: 1,0	1860.0	18700	V	19.15	9.77	-4.66	24.25	33.01
			H	13.81	9.77	-4.66	18.91	33.01
	1880.0	18900	V	18.18	9.83	-4.69	23.33	33.01
			H	12.74	9.83	-4.69	17.88	33.01
1900.0	19100	V	18.9	9.89	-4.71	24.07	33.01	
		H	14.56	9.89	-4.71	19.74	33.01	
LTE BAND 2 BW: 20M QPSK RB: 1,99	1860.0	18700	V	18.3	9.82	-4.68	23.43	33.01
			H	12.8	9.82	-4.68	17.93	33.01
	1880.0	18900	V	19.02	9.88	-4.7	24.19	33.01
			H	14.63	9.88	-4.7	19.81	33.01
1900.0	19100	V	17.81	9.94	-4.72	23.02	33.01	
		H	13.46	9.94	-4.72	18.68	33.01	
LTE BAND 2 BW: 20M 16QAM RB: 1,0	1860.0	18700	V	19.66	9.77	-4.67	24.77	33.01
			H	14.46	9.77	-4.67	19.57	33.01
	1880.0	18900	V	17.67	9.83	-4.69	22.81	33.01
			H	12.27	9.83	-4.69	17.42	33.01
1900.0	19100	V	20.02	9.89	-4.71	25.2	33.01	
		H	15.31	9.89	-4.71	20.49	33.01	
LTE BAND 2 BW: 15M 16QAM RB: 1,99	1860.0	18700	V	18.33	9.82	-4.68	23.46	33.01
			H	12.89	9.82	-4.68	18.03	33.01
	1880.0	18900	V	20.06	9.88	-4.7	25.23	33.01
			H	15.55	9.88	-4.7	20.72	33.01
1900.0	19100	V	18.47	9.94	-4.72	23.69	33.01	
		H	13.97	9.94	-4.72	19.18	33.01	

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 4 BW: 1.4M QPSK RB: 1,0	1710.7	19957	V	18.17	9.33	-4.45	23.06	30.00
			H	12.5	9.34	-4.45	17.38	30.00
	1732.5	20175	V	18.22	9.39	-4.48	23.14	30.00
			H	11.43	9.39	-4.48	16.35	30.00
	1754.3	20393	V	17.88	9.46	-4.5	22.84	30.00
H			11.08	9.46	-4.5	16.05	30.00	
LTE BAND 4 BW: 1.4M QPSK RB: 1,5	1710.7	19957	V	18.12	9.34	-4.45	23.01	30.00
			H	12.52	9.33	-4.45	17.4	30.00
	1732.5	20175	V	17.96	9.4	-4.48	22.88	30.00
			H	11.22	9.4	-4.48	16.14	30.00
	1754.3	20393	V	17.61	9.47	-4.5	22.58	30.00
H			10.71	9.47	-4.5	15.68	30.00	
LTE BAND 4 BW: 1.4M 16QAM RB: 1,0	1710.7	19957	V	17.73	9.33	-4.45	22.61	30.00
			H	11.73	9.33	-4.45	16.62	30.00
	1732.5	20175	V	17.86	9.39	-4.48	22.78	30.00
			H	10.9	9.39	-4.48	15.82	30.00
	1754.3	20393	V	17.99	9.46	-4.49	22.96	30.00
H			11.08	9.46	-4.49	16.05	30.00	
LTE BAND 4 BW: 1.4M 16QAM RB: 1,5	1710.7	19957	V	17.98	9.34	-4.45	22.86	30.00
			H	12.13	9.33	-4.45	17.01	30.00
	1732.5	20175	V	17.72	9.4	-4.48	22.64	30.00
			H	10.85	9.4	-4.48	15.77	30.00
	1754.3	20393	V	18	9.47	-4.5	22.97	30.00
H			10.96	9.47	-4.5	15.93	30.00	

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 4 BW: 3M QPSK RB: 1,0	1711.5	19965	V	18.11	9.33	-4.45	22.99	30.00
			H	12.42	9.33	-4.45	17.3	30.00
	1732.5	20175	V	18.15	9.39	-4.47	23.07	30.00
			H	11.28	9.39	-4.47	16.2	30.00
1753.5	20385	V	17.7	9.46	-4.49	22.67	30.00	
		H	11.11	9.46	-4.49	16.07	30.00	
LTE BAND 4 BW: 3M QPSK RB: 1,14	1711.5	19965	V	18.44	9.33	-4.45	23.32	30.00
			H	12.95	9.33	-4.45	17.84	30.00
	1732.5	20175	V	18.12	9.4	-4.48	23.04	30.00
			H	11.39	9.4	-4.48	16.31	30.00
1753.5	20385	V	17.74	9.47	-4.5	22.71	30.00	
		H	10.76	9.47	-4.5	15.73	30.00	
LTE BAND 4 BW: 3M 16QAM RB: 1,0	1711.5	19965	V	17.6	9.34	-4.45	22.48	30.00
			H	11.82	9.33	-4.45	16.7	30.00
	1732.5	20175	V	18	9.39	-4.47	22.91	30.00
			H	11.02	9.39	-4.47	15.93	30.00
1753.5	20385	V	18.34	9.46	-4.49	23.31	30.00	
		H	11.68	9.46	-4.49	16.65	30.00	
LTE BAND 4 BW: 3M 16QAM RB: 1,14	1711.5	19965	V	18.55	9.33	-4.45	23.43	30.00
			H	12.91	9.33	-4.45	17.8	30.00
	1732.5	20175	V	17.73	9.4	-4.48	22.66	30.00
			H	10.95	9.4	-4.48	15.87	30.00
1753.5	20385	V	18.36	9.47	-4.5	23.33	30.00	
		H	11.29	9.47	-4.5	16.26	30.00	

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 4 BW: 5M QPSK RB: 1,0	1712.5	19975	V	17.84	9.34	-4.45	22.72	30.00
			H	12.16	9.34	-4.45	17.05	30.00
	1732.5	20175	V	18.01	9.39	-4.47	22.92	30.00
			H	11.06	9.39	-4.47	15.97	30.00
	1752.5	20375	V	17.55	9.45	-4.49	22.51	30.00
			H	11.26	9.45	-4.49	16.22	30.00
LTE BAND 4 BW: 5M QPSK RB: 1,24	1712.5	19975	V	18.11	9.34	-4.45	22.99	30.00
			H	12.69	9.34	-4.45	17.57	30.00
	1732.5	20175	V	17.74	9.4	-4.48	22.66	30.00
			H	11.1	9.4	-4.48	16.02	30.00
	1752.5	20375	V	17.41	9.47	-4.5	22.38	30.00
			H	10.56	9.47	-4.5	15.53	30.00
LTE BAND 4 BW: 5M 16QAM RB: 1,0	1712.5	19975	V	17.52	9.34	-4.45	22.4	30.00
			H	12.01	9.34	-4.45	16.9	30.00
	1732.5	20175	V	18.18	9.39	-4.47	23.1	30.00
			H	11.21	9.39	-4.47	16.12	30.00
	1752.5	20375	V	18.2	9.45	-4.49	23.16	30.00
			H	12.02	9.45	-4.49	16.98	30.00
LTE BAND 4 BW: 5M 16QAM RB: 1,24	1712.5	19975	V	18.48	9.34	-4.45	23.37	30.00
			H	13.45	9.34	-4.45	18.34	30.00
	1732.5	20175	V	17.67	9.4	-4.48	22.59	30.00
			H	10.95	9.4	-4.48	15.88	30.00
	1752.5	20375	V	18.33	9.47	-4.5	23.3	30.00
			H	11.5	9.47	-4.5	16.47	30.00

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 4 BW: 10M QPSK RB: 1,0	1715.0	20000	V	17.89	9.34	-4.45	22.78	30.00
			H	12.24	9.34	-4.45	17.12	30.00
	1732.0	20175	V	17.92	9.39	-4.47	22.84	30.00
			H	10.87	9.39	-4.47	15.78	30.00
	1750.0	20350	V	17.44	9.45	-4.49	22.39	30.00
			H	11.17	9.45	-4.49	16.13	30.00
LTE BAND 4 BW: 10M QPSK RB: 1,49	1715.0	20000	V	18.08	9.35	-4.46	22.98	30.00
			H	12.35	9.35	-4.46	17.24	30.00
	1732.0	20175	V	17.81	9.41	-4.48	22.74	30.00
			H	11.26	9.41	-4.48	16.19	30.00
	1750.0	20350	V	17.46	9.47	-4.5	22.43	30.00
			H	10.6	9.46	-4.5	15.57	30.00
LTE BAND 4 BW: 10M 16QAM RB: 1,0	1715.0	20000	V	17.79	9.34	-4.45	22.67	30.00
			H	12.16	9.33	-4.45	17.04	30.00
	1732.0	20175	V	18.23	9.39	-4.48	23.15	30.00
			H	11.36	9.39	-4.47	16.28	30.00
	1750.0	20350	V	17.89	9.45	-4.49	22.85	30.00
			H	11.9	9.45	-4.49	16.86	30.00
LTE BAND 4 BW: 10M 16QAM RB: 1,49	1715.0	20000	V	19.04	9.35	-4.46	23.93	30.00
			H	12.68	9.35	-4.46	17.57	30.00
	1732.0	20175	V	17.63	9.41	-4.48	22.56	30.00
			H	11.16	9.41	-4.48	16.09	30.00
	1750.0	20350	V	17.93	9.47	-4.5	22.9	30.00
			H	11.54	9.47	-4.5	16.51	30.00

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 4 BW: 15M QPSK RB: 1,0	1717.5	20025	V	17.87	9.34	-4.45	22.75	30.00
			H	12.26	9.33	-4.45	17.14	30.00
	1732.5	20175	V	18.03	9.38	-4.47	22.94	30.00
			H	11.07	9.39	-4.47	15.98	30.00
1747.5	20325	V	17.6	9.43	-4.49	22.55	30.00	
		H	11.08	9.43	-4.49	16.03	30.00	
LTE BAND 4 BW: 15M QPSK RB: 1,74	1717.5	20025	V	18.23	9.37	-4.47	23.14	30.00
			H	11.56	9.37	-4.47	16.46	30.00
	1732.5	20175	V	17.87	9.42	-4.48	22.8	30.00
			H	11.28	9.42	-4.48	16.22	30.00
1747.5	20325	V	17.41	9.46	-4.5	22.38	30.00	
		H	10.56	9.46	-4.5	15.53	30.00	
LTE BAND 4 BW: 15M 16QAM RB: 1,0	1717.5	20025	V	17.74	9.34	-4.45	22.62	30.00
			H	12.02	9.34	-4.45	16.91	30.00
	1732.5	20175	V	18.88	9.39	-4.47	23.8	30.00
			H	11.26	9.38	-4.47	16.18	30.00
1747.5	20325	V	17.56	9.43	-4.49	22.51	30.00	
		H	11.19	9.43	-4.49	16.13	30.00	
LTE BAND 4 BW: 15M 16QAM RB: 1,74	1717.5	20025	V	19.27	9.37	-4.46	24.18	30.00
			H	12.15	9.37	-4.47	17.06	30.00
	1732.5	20175	V	18.02	9.42	-4.48	22.96	30.00
			H	11.53	9.42	-4.48	16.47	30.00
1747.5	20325	V	17.88	9.46	-4.5	22.85	30.00	
		H	11.34	9.46	-4.5	16.31	30.00	

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 4 BW: 20M QPSK RB: 1,0	1720.0	20050	V	17.93	9.34	-4.45	22.81	30.00
			H	12.29	9.34	-4.45	17.18	30.00
	1732.5	20175	V	18.03	9.37	-4.47	22.93	30.00
			H	11.41	9.37	-4.47	16.31	30.00
	1745.0	20300	V	17.58	9.41	-4.48	22.51	30.00
			H	10.97	9.41	-4.48	15.9	30.00
LTE BAND 4 BW: 20M QPSK RB: 1,99	1720.0	20050	V	18.05	9.38	-4.47	22.97	30.00
			H	10.98	9.38	-4.47	15.89	30.00
	1732.5	20175	V	17.8	9.42	-4.48	22.74	30.00
			H	11.36	9.42	-4.48	16.3	30.00
	1745.0	20300	V	17.45	9.46	-4.5	22.42	30.00
			H	10.65	9.46	-4.5	15.61	30.00
LTE BAND 4 BW: 20M 16QAM RB: 1,0	1720.0	20050	V	17.89	9.33	-4.45	22.77	30.00
			H	12.17	9.33	-4.45	17.05	30.00
	1732.5	20175	V	18.53	9.37	-4.47	23.44	30.00
			H	12.06	9.37	-4.47	16.97	30.00
	1745.0	20300	V	17.38	9.41	-4.48	22.31	30.00
			H	10.97	9.41	-4.48	15.9	30.00
LTE BAND 4 BW: 20M 16QAM RB: 1,99	1720.0	20050	V	18.27	9.38	-4.47	23.19	30.00
			H	11.1	9.38	-4.47	16.01	30.00
	1732.5	20175	V	17.97	9.42	-4.48	22.91	30.00
			H	11.5	9.42	-4.48	16.44	30.00
	1745.0	20300	V	17.99	9.47	-4.5	22.96	30.00
			H	11.77	9.46	-4.5	16.73	30.00

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 5 BW: 1.4M QPSK RB: 1,0	824.7	20407	V	17.23	3.45	-3.17	17.51	38.45
			H	16.76	3.45	-3.17	17.04	38.45
	836.5	20525	V	18.46	3.45	-3.28	18.63	38.45
			H	16.79	3.45	-3.28	16.96	38.45
	848.3	20643	V	16.77	3.46	-3.35	16.88	38.45
			H	15.42	3.46	-3.36	15.52	38.45
LTE BAND 5 BW: 1.4M QPSK RB: 1,5	824.7	20407	V	17.68	3.45	-3.1	18.03	38.45
			H	17.74	3.45	-3.14	18.04	38.45
	836.5	20525	V	17.72	3.45	-3.3	17.87	38.45
			H	15.98	3.45	-3.3	16.14	38.45
	848.3	20643	V	15.72	3.46	-3.29	15.89	38.45
			H	14.25	3.46	-3.27	14.44	38.45
LTE BAND 5 BW: 1.4M 16QAM RB: 1,0	824.7	20407	V	17.47	3.45	-3.17	17.74	38.45
			H	17.81	3.45	-3.17	18.09	38.45
	836.5	20525	V	18.61	3.45	-3.28	18.78	38.45
			H	17.21	3.45	-3.28	17.38	38.45
	848.3	20643	V	16.85	3.46	-3.33	16.98	38.45
			H	15.69	3.46	-3.25	15.9	38.45
LTE BAND 5 BW: 1.4M 16QAM RB: 1,5	824.7	20407	V	17.97	3.45	-3.11	18.31	38.45
			H	18.18	3.45	-3.1	18.53	38.45
	836.5	20525	V	17.9	3.45	-3.3	18.05	38.45
			H	16.22	3.45	-3.3	16.37	38.45
	848.3	20643	V	15.85	3.46	-3.28	16.03	38.45
			H	14.65	3.46	-3.29	14.82	38.45

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 5 BW: 3M QPSK RB: 1,0	825.5	20415	V	17.07	3.45	-3.17	17.35	38.45
			H	19.2	3.45	-3.17	19.48	38.45
	836.5	20525	V	18.77	3.45	-3.28	18.95	38.45
			H	17.17	3.45	-3.28	17.35	38.45
	847.5	20635	V	17.02	3.46	-3.43	17.06	38.45
			H	15.56	3.46	-3.42	15.6	38.45
LTE BAND 5 BW: 3M QPSK RB: 1,14	825.5	20415	V	18.57	3.45	-3.16	18.86	38.45
			H	17.97	3.45	-3.16	18.25	38.45
	836.5	20525	V	17.16	3.45	-3.31	17.3	38.45
			H	15.36	3.45	-3.31	15.51	38.45
	847.5	20635	V	15.68	3.46	-3.29	15.85	38.45
			H	14.24	3.46	-3.29	14.41	38.45
LTE BAND 5 BW: 3M 16QAM RB: 1,0	825.5	20415	V	17.3	3.45	-3.18	17.57	38.45
			H	17.56	3.45	-3.17	17.84	38.45
	836.5	20525	V	19.33	3.45	-3.27	19.51	38.45
			H	17.88	3.45	-3.28	18.06	38.45
	847.5	20635	V	18.01	3.46	-3.43	18.04	38.45
			H	16.79	3.46	-3.42	16.82	38.45
LTE BAND 5 BW: 3M 16QAM RB: 1,14	825.5	20415	V	19	3.45	-3.16	19.29	38.45
			H	18.95	3.45	-3.15	19.24	38.45
	836.5	20525	V	17.38	3.45	-3.31	17.53	38.45
			H	15.64	3.45	-3.31	15.78	38.45
	847.5	20635	V	15.78	3.46	-3.3	15.94	38.45
			H	14.4	3.46	-3.28	14.58	38.45

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 5 BW: 5M QPSK RB: 1,0	826.5	20425	V	20.02	3.45	-3.17	20.3	38.45
			H	19.62	3.45	-3.13	19.94	38.45
	836.5	20525	V	18.56	3.45	-3.26	18.75	38.45
			H	17	3.45	-3.26	17.19	38.45
	846.5	20625	V	19.58	3.46	-3.4	19.64	38.45
			H	18.01	3.46	-3.4	18.07	38.45
LTE BAND 5 BW: 5M QPSK RB: 1,24	826.5	20425	V	18.9	3.45	-3.18	19.16	38.45
			H	18.11	3.45	-3.19	18.37	38.45
	836.5	20525	V	16.59	3.45	-3.32	16.72	38.45
			H	14.69	3.45	-3.32	14.82	38.45
	846.5	20625	V	15.54	3.46	-3.29	15.71	38.45
			H	14.08	3.46	-3.29	14.25	38.45
LTE BAND 5 BW: 5M 16QAM RB: 1,0	826.5	20425	V	18.73	3.45	-3.17	19.02	38.45
			H	17.34	3.45	-3.18	17.62	38.45
	836.5	20525	V	19.82	3.45	-3.26	20.01	38.45
			H	18.16	3.45	-3.26	18.35	38.45
	846.5	20625	V	17.7	3.46	-3.4	17.76	38.45
			H	16.24	3.46	-3.39	16.31	38.45
LTE BAND 5 BW: 5M 16QAM RB: 1,24	826.5	20425	V	19.89	3.45	-3.19	20.16	38.45
			H	19.04	3.45	-3.18	19.31	38.45
	836.5	20525	V	16.87	3.46	-3.33	17	38.45
			H	14.84	3.45	-3.32	14.97	38.45
	846.5	20625	V	15.82	3.46	-3.28	16	38.45
			H	15.07	3.46	-3.25	15.28	38.45

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 5 BW: 10M QPSK RB: 1,0	829.0	20450	V	16.81	3.45	-3.18	17.07	38.45
			H	16.98	3.45	-3.18	17.25	38.45
	836.5	20525	V	18.46	3.45	-3.23	18.68	38.45
			H	17.19	3.45	-3.23	17.41	38.45
	844.0	20600	V	15.42	3.46	-3.33	15.55	38.45
			H	13.5	3.46	-3.33	13.62	38.45
LTE BAND 5 BW: 10M QPSK RB: 1,49	829.0	20450	V	18.65	3.45	-3.25	18.85	38.45
			H	17.03	3.45	-3.25	17.23	38.45
	836.5	20525	V	15.42	3.46	-3.35	15.52	38.45
			H	13.58	3.46	-3.34	13.7	38.45
	844.0	20600	V	15.46	3.46	-3.3	15.61	38.45
			H	13.99	3.46	-3.31	14.14	38.45
LTE BAND 5 BW: 10M 16QAM RB: 1,0	829.0	20450	V	17.08	3.45	-3.17	17.37	38.45
			H	17.16	3.45	-3.18	17.43	38.45
	836.5	20525	V	20.21	3.45	-3.23	20.43	38.45
			H	18.47	3.45	-3.23	18.69	38.45
	844.0	20600	V	15.73	3.46	-3.34	15.85	38.45
			H	14.15	3.46	-3.35	14.26	38.45
LTE BAND 5 BW: 10M 16QAM RB: 1,49	829.0	20450	V	19.54	3.45	-3.25	19.75	38.45
			H	18.24	3.45	-3.25	18.44	38.45
	836.5	20525	V	15.87	3.46	-3.35	15.98	38.45
			H	13.99	3.46	-3.35	14.09	38.45
	844.0	20600	V	15.65	3.46	-3.34	15.76	38.45
			H	14.36	3.46	-3.32	14.51	38.45

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 7 BW: 5M QPSK RB: 1,0	2502.5	20775	V	19.47	10.5	-5.52	24.45	33.01
			H	16.63	10.5	-5.52	21.61	33.01
	2535.0	21100	V	20.72	10.55	-5.55	25.71	33.01
			H	17.55	10.55	-5.55	22.55	33.01
	2567.5	21425	V	18.54	10.6	-5.61	23.53	33.01
			H	15.59	10.6	-5.61	20.58	33.01
LTE BAND 7 BW: 5M QPSK RB: 1,24	2502.5	20775	V	19.63	10.5	-5.52	24.61	33.01
			H	17	10.51	-5.52	21.98	33.01
	2535.0	21100	V	20.17	10.55	-5.56	25.16	33.01
			H	17.03	10.55	-5.56	22.02	33.01
	2567.5	21425	V	18.09	10.6	-5.62	23.07	33.01
			H	15.19	10.6	-5.62	20.18	33.01
LTE BAND 7 BW: 5M 16QAM RB: 1,0	2502.5	20775	V	19.16	10.5	-5.52	24.14	33.01
			H	16.45	10.5	-5.52	21.43	33.01
	2535.0	21100	V	20.46	10.55	-5.55	25.45	33.01
			H	17.38	10.55	-5.55	22.37	33.01
	2567.5	21425	V	17.99	10.6	-5.61	22.98	33.01
			H	15.13	10.6	-5.61	20.11	33.01
LTE BAND 7 BW: 5M 16QAM RB: 1,24	2502.5	20775	V	19.1	10.5	-5.52	24.08	33.01
			H	16.67	10.5	-5.52	21.65	33.01
	2535.0	21100	V	19.97	10.55	-5.56	24.97	33.01
			H	16.92	10.55	-5.56	21.91	33.01
	2567.5	21425	V	17.68	10.6	-5.62	22.66	33.01
			H	14.68	10.6	-5.62	19.66	33.01

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 7 BW: 10M QPSK RB: 1,0	2505.0	20800	V	19.41	10.5	-5.52	24.39	33.01
			H	16.65	10.5	-5.52	21.63	33.01
	2535.0	21100	V	21.04	10.54	-5.55	26.03	33.01
			H	17.78	10.54	-5.55	22.78	33.01
	2565.0	21400	V	19.28	10.59	-5.6	24.27	33.01
			H	16.42	10.59	-5.6	21.41	33.01
LTE BAND 7 BW: 10M QPSK RB: 1,49	2505.0	20800	V	19.63	10.51	-5.53	24.62	33.01
			H	16.82	10.51	-5.53	21.8	33.01
	2535.0	21100	V	19.94	10.56	-5.56	24.93	33.01
			H	16.96	10.56	-5.56	21.96	33.01
	2565.0	21400	V	18.2	10.6	-5.62	23.18	33.01
			H	15.35	10.6	-5.62	20.33	33.01
LTE BAND 7 BW: 10M 16QAM RB: 1,0	2505.0	20800	V	19.21	10.5	-5.52	24.19	33.01
			H	16.43	10.5	-5.52	21.41	33.01
	2535.0	21100	V	21.08	10.54	-5.55	26.07	33.01
			H	17.7	10.54	-5.55	22.69	33.01
	2565.0	21400	V	19.15	10.59	-5.6	24.14	33.01
			H	16.28	10.59	-5.6	21.27	33.01
LTE BAND 7 BW: 10M 16QAM RB: 1,49	2505.0	20800	V	19.51	10.51	-5.53	24.49	33.01
			H	16.69	10.51	-5.53	21.67	33.01
	2535.0	21100	V	19.99	10.56	-5.56	24.98	33.01
			H	16.78	10.56	-5.56	21.77	33.01
	2565.0	21400	V	17.72	10.6	-5.62	22.7	33.01
			H	14.8	10.6	-5.62	19.79	33.01

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 7 BW: 15M QPSK RB: 1,0	2507.5	20825	V	19.35	10.5	-5.52	24.33	33.01
			H	16.57	10.5	-5.52	21.55	33.01
	2535.0	21100	V	21.36	10.54	-5.55	26.36	33.01
			H	18.06	10.54	-5.55	23.05	33.01
	2562.5	21375	V	19.43	10.58	-5.59	24.42	33.01
			H	16.43	10.58	-5.59	21.42	33.01
LTE BAND 7 BW: 15M QPSK RB: 1,74	2507.5	20825	V	20.34	10.52	-5.53	25.33	33.01
			H	17.19	10.52	-5.53	22.18	33.01
	2535.0	21100	V	19.9	10.56	-5.57	24.89	33.01
			H	17	10.56	-5.57	22	33.01
	2562.5	21375	V	17.95	10.6	-5.62	22.94	33.01
			H	15.08	10.6	-5.62	20.06	33.01
LTE BAND 7 BW: 15M 16QAM RB: 1,0	2507.5	20825	V	19.33	10.5	-5.52	24.31	33.01
			H	16.42	10.5	-5.52	21.4	33.01
	2535.0	21100	V	21.45	10.54	-5.55	26.45	33.01
			H	18.06	10.54	-5.55	23.06	33.01
	2562.5	21375	V	19.73	10.58	-5.59	24.72	33.01
			H	16.72	10.58	-5.59	21.71	33.01
LTE BAND 7 BW: 15M 16QAM RB: 1,74	2507.5	20825	V	20.28	10.52	-5.53	25.27	33.01
			H	17.01	10.52	-5.53	22	33.01
	2535.0	21100	V	20.06	10.56	-5.57	25.05	33.01
			H	17.05	10.56	-5.57	22.05	33.01
	2562.5	21375	V	17.64	10.6	-5.62	22.63	33.01
			H	14.8	10.6	-5.62	19.78	33.01

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 7 BW: 20M QPSK RB: 1,0	2510.0	20850	V	19.42	10.5	-5.52	24.4	33.01
			H	16.63	10.5	-5.52	21.61	33.01
	2535.0	21100	V	21.55	10.54	-5.54	26.54	33.01
			H	18.14	10.54	-5.54	23.13	33.01
	2560.0	21350	V	19.73	10.57	-5.58	24.72	33.01
			H	16.66	10.57	-5.58	21.65	33.01
LTE BAND 7 BW: 20M QPSK RB: 1,99	2510.0	20850	V	20.91	10.53	-5.54	25.9	33.01
			H	17.67	10.53	-5.54	22.66	33.01
	2535.0	21100	V	20.01	10.56	-5.57	25	33.01
			H	17.11	10.56	-5.57	22.11	33.01
	2560.0	21350	V	17.95	10.6	-5.62	22.94	33.01
			H	15.05	10.6	-5.62	20.03	33.01
LTE BAND 7 BW: 20M 16QAM RB: 1,0	2510.0	20850	V	19.28	10.5	-5.52	24.27	33.01
			H	16.37	10.5	-5.52	21.35	33.01
	2535.0	21100	V	21.69	10.54	-5.54	26.68	33.01
			H	17.98	10.54	-5.54	22.97	33.01
	2560.0	21350	V	20.07	10.58	-5.59	25.06	33.01
			H	16.92	10.58	-5.59	21.91	33.01
LTE BAND 7 BW: 20M 16QAM RB: 1,99	2510.0	20850	V	21.11	10.53	-5.54	26.1	33.01
			H	17.85	10.53	-5.54	22.84	33.01
	2535.0	21100	V	20.21	10.56	-5.57	25.2	33.01
			H	17.1	10.56	-5.57	22.09	33.01
	2560.0	21350	V	17.58	10.6	-5.62	22.56	33.01
			H	14.79	10.6	-5.62	19.77	33.01

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 12 BW: 1.4M QPSK RB: 1,0	699.7	23017	V	18.41	3.67	-2.09	19.99	34.77
			H	16.13	3.67	-2.1	17.7	34.77
	707.5	23095	V	20.54	3.65	-1.82	22.37	34.77
			H	18.33	3.65	-1.85	20.14	34.77
	715.3	23173	V	21.43	3.62	-2.32	22.72	34.77
			H	18.47	3.62	-2.3	19.79	34.77
LTE BAND 12 BW: 1.4M QPSK RB: 1,5	699.7	23017	V	19.09	3.68	-2.26	20.52	34.77
			H	16.16	3.67	-2.05	17.77	34.77
	707.5	23095	V	19.99	3.65	-1.88	21.76	34.77
			H	17.65	3.65	-1.91	19.39	34.77
	715.3	23173	V	21.31	3.62	-2.36	22.57	34.77
			H	18.49	3.62	-2.37	19.74	34.77
LTE BAND 12 BW: 1.4M 16QAM RB: 1,0	699.7	23017	V	18.47	3.67	-2.1	20.04	34.77
			H	16.18	3.67	-2.11	17.74	34.77
	707.5	23095	V	20.66	3.65	-1.82	22.49	34.77
			H	18.19	3.65	-1.82	20.03	34.77
	715.3	23173	V	21.38	3.62	-2.3	22.71	34.77
			H	18.52	3.62	-2.31	19.84	34.77
LTE BAND 12 BW: 1.4M 16QAM RB: 1,5	699.7	23017	V	19.05	3.68	-2.26	20.47	34.77
			H	16.35	3.67	-2	18.01	34.77
	707.5	23095	V	20.19	3.65	-1.87	21.97	34.77
			H	17.56	3.65	-1.89	19.32	34.77
	715.3	23173	V	21.73	3.62	-2.38	22.96	34.77
			H	18.93	3.62	-2.36	20.19	34.77

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 12 BW: 3M QPSK RB: 1,0	700.5	23025	V	18.77	3.67	-2.07	20.37	34.77
			H	17.47	3.67	-2.14	19	34.77
	707.5	23095	V	21.33	3.66	-1.84	23.14	34.77
			H	18.63	3.65	-1.82	20.45	34.77
	714.5	23165	V	20.25	3.62	-2.26	21.62	34.77
			H	17.34	3.62	-2.28	18.69	34.77
LTE BAND 12 BW: 3M QPSK RB: 1,14	700.5	23025	V	19.67	3.67	-2.17	21.18	34.77
			H	17.15	3.67	-2.17	18.66	34.77
	707.5	23095	V	20.1	3.65	-1.93	21.81	34.77
			H	17.35	3.65	-1.87	19.13	34.77
	714.5	23165	V	21.55	3.62	-2.31	22.86	34.77
			H	18.68	3.62	-2.32	19.98	34.77
LTE BAND 12 BW: 3M 16QAM RB: 1,0	700.5	23025	V	19.09	3.68	-2.22	20.55	34.77
			H	16.64	3.68	-2.18	18.13	34.77
	707.5	23095	V	21.59	3.66	-1.83	23.42	34.77
			H	19.03	3.66	-1.84	20.85	34.77
	714.5	23165	V	20.23	3.62	-2.27	21.58	34.77
			H	17.54	3.62	-2.3	18.86	34.77
LTE BAND 12 BW: 3M 16QAM RB: 1,14	700.5	23025	V	19.75	3.68	-2.18	21.25	34.77
			H	17.28	3.68	-2.19	18.76	34.77
	707.5	23095	V	20.25	3.65	-1.9	22	34.77
			H	17.58	3.65	-1.91	19.31	34.77
	714.5	23165	V	21.93	3.62	-2.36	23.19	34.77
			H	19.03	3.62	-2.36	20.29	34.77

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 12 BW: 5M QPSK RB: 1,0	701.5	23035	V	21.1	3.67	-2.02	22.74	34.77
			H	16.18	3.67	-2.1	17.75	34.77
	707.5	23095	V	21.99	3.66	-1.9	23.75	34.77
			H	19.42	3.66	-1.89	21.18	34.77
	713.5	23155	V	20.84	3.62	-2.3	22.17	34.77
			H	17.03	3.64	-2.08	18.58	34.77
LTE BAND 12 BW: 5M QPSK RB: 1,24	701.5	23035	V	20.99	3.67	-2.02	22.64	34.77
			H	18.48	3.67	-2.02	20.13	34.77
	707.5	23095	V	20.08	3.64	-1.99	21.74	34.77
			H	17.25	3.64	-1.98	18.91	34.77
	713.5	23155	V	21.43	3.62	-2.36	22.69	34.77
			H	18.5	3.62	-2.37	19.75	34.77
LTE BAND 12 BW: 5M 16QAM RB: 1,0	701.5	23035	V	18.56	3.67	-2.1	20.14	34.77
			H	16.23	3.67	-2.1	17.8	34.77
	707.5	23095	V	22.72	3.66	-1.89	24.48	34.77
			H	19.85	3.66	-1.88	21.63	34.77
	713.5	23155	V	20.19	3.64	-2.09	21.74	34.77
			H	17.34	3.64	-2.09	18.88	34.77
LTE BAND 12 BW: 5M 16QAM RB: 1,24	701.5	23035	V	21.18	3.67	-2.05	22.79	34.77
			H	18.54	3.67	-2.03	20.18	34.77
	707.5	23095	V	20.36	3.64	-1.99	22.01	34.77
			H	17.43	3.64	-1.97	19.1	34.77
	713.5	23155	V	21.88	3.62	-2.35	23.15	34.77
			H	18.96	3.62	-2.37	20.21	34.77

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 12 BW: 10M QPSK RB: 1,0	704.0	23060	V	20.18	3.66	-1.92	21.93	34.77
			H	17.76	3.66	-1.93	19.49	34.77
	707.5	23095	V	20.52	3.67	-2.08	22.11	34.77
			H	17.85	3.65	-1.82	19.68	34.77
	711.0	23130	V	20.96	3.65	-1.81	22.81	34.77
			H	18.27	3.65	-1.8	20.13	34.77
LTE BAND 12 BW: 10M QPSK RB: 1,49	704.0	23060	V	21.1	3.66	-1.87	22.89	34.77
			H	18.41	3.66	-1.86	20.21	34.77
	707.5	23095	V	20.21	3.64	-2.08	21.77	34.77
			H	17.33	3.64	-2.09	18.88	34.77
	711.0	23130	V	21.69	3.62	-2.35	22.96	34.77
			H	18.74	3.62	-2.35	20.01	34.77
LTE BAND 12 BW: 10M 16QAM RB: 1,0	704.0	23060	V	20.95	3.66	-1.93	22.69	34.77
			H	18.45	3.66	-1.92	20.19	34.77
	707.5	23095	V	20.58	3.67	-2.08	22.17	34.77
			H	17.76	3.66	-1.82	19.6	34.77
	711.0	23130	V	21.36	3.65	-1.81	23.2	34.77
			H	18.63	3.65	-1.8	20.48	34.77
LTE BAND 12 BW: 10M 16QAM RB: 1,49	704.0	23060	V	21.68	3.65	-1.94	23.39	34.77
			H	18.48	3.65	-1.87	20.26	34.77
	707.5	23095	V	20.28	3.63	-2.12	21.79	34.77
			H	17.25	3.63	-2.14	18.74	34.77
	711.0	23130	V	21.99	3.62	-2.34	23.27	34.77
			H	19.03	3.62	-2.34	20.31	34.77

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 13 BW: 5M QPSK RB: 1,0	779.5	23205	V	19.1	3.45	-2.83	19.73	34.77
			H	19.12	3.45	-2.83	19.74	34.77
	782.0	23230	V	20.77	3.45	-2.95	21.27	34.77
			H	20.75	3.45	-2.96	21.24	34.77
	784.5	23255	V	21.7	3.45	-3.22	21.93	34.77
			H	21.83	3.45	-3.22	22.06	34.77
LTE BAND 13 BW: 5M QPSK RB: 1,24	779.5	23205	V	22.21	3.45	-3.15	22.51	34.77
			H	22.21	3.45	-3.14	22.52	34.77
	782.0	23230	V	20.06	3.45	-3.41	20.09	34.77
			H	20.26	3.45	-3.45	20.26	34.77
	784.5	23255	V	19.95	3.45	-3.73	19.67	34.77
			H	20.43	3.45	-3.72	20.16	34.77
LTE BAND 13 BW: 5M 16QAM RB: 1,0	779.5	23205	V	19.1	3.45	-2.84	19.71	34.77
			H	19.09	3.45	-2.84	19.7	34.77
	782.0	23230	V	21.17	3.45	-2.94	21.68	34.77
			H	21.12	3.45	-2.92	21.65	34.77
	784.5	23255	V	21.08	3.45	-3.23	21.3	34.77
			H	21.28	3.45	-3.22	21.51	34.77
LTE BAND 13 BW: 5M 16QAM RB: 1,24	779.5	23205	V	22.11	3.45	-3.13	22.44	34.77
			H	22.17	3.45	-3.16	22.46	34.77
	782.0	23230	V	19.61	3.45	-3.47	19.59	34.77
			H	19.76	3.45	-3.47	19.74	34.77
	784.5	23255	V	19.59	3.45	-3.7	19.33	34.77
			H	20.21	3.45	-3.72	19.93	34.77

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 13 BW: 10M QPSK RB: 1,0	782.0	23230	V	19.73	3.45	-3.02	20.16	34.77
			H	19.68	3.45	-2.97	20.16	34.77
LTE BAND 13 BW: 10M QPSK RB: 1,49	782.0	23230	V	20.38	3.45	-3.6	20.22	34.77
			H	20.61	3.45	-3.58	20.47	34.77
LTE BAND 13 BW: 10M 16QAM RB: 1,0	782.0	23230	V	20.51	3.45	-3.31	20.65	34.77
			H	20.33	3.45	-3.08	20.7	34.77
LTE BAND 13 BW: 10M 16QAM RB: 1,49	782.0	23230	V	19.96	3.45	-3.68	19.73	34.77
			H	20.52	3.45	-3.69	20.27	34.77

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 17 BW: 5M QPSK RB: 1,0	706.5	23755	V	21.39	3.65	-1.85	23.19	34.77
			H	18.51	3.65	-1.85	20.32	34.77
	710.0	23790	V	19.98	3.65	-1.87	21.76	34.77
			H	17.52	3.65	-1.87	19.3	34.77
713.5	23825	V	21.11	3.62	-2.33	22.4	34.77	
		H	18.98	3.62	-2.33	20.27	34.77	
LTE BAND 17 BW: 5M QPSK RB: 1,24	706.5	23755	V	19.89	3.65	-1.93	21.61	34.77
			H	17.44	3.65	-1.92	19.17	34.77
	710.0	23790	V	19.58	3.63	-2.15	21.07	34.77
			H	17.7	3.63	-2.14	19.19	34.77
713.5	23825	V	21.3	3.62	-2.36	22.55	34.77	
		H	19.13	3.62	-2.36	20.39	34.77	
LTE BAND 17 BW: 5M 16QAM RB: 1,0	706.5	23755	V	21.08	3.65	-1.84	22.89	34.77
			H	18.65	3.65	-1.84	20.46	34.77
	710.0	23790	V	20.23	3.65	-1.86	22.02	34.77
			H	17.78	3.65	-1.87	19.56	34.77
713.5	23825	V	19.99	3.64	-2.08	21.54	34.77	
		H	17.65	3.64	-2.08	19.21	34.77	
LTE BAND 17 BW: 5M 16QAM RB: 1,24	706.5	23755	V	20.08	3.65	-1.92	21.8	34.77
			H	17.58	3.65	-1.92	19.3	34.77
	710.0	23790	V	19.7	3.63	-2.15	21.18	34.77
			H	17.41	3.63	-2.15	18.89	34.77
713.5	23825	V	21.88	3.62	-2.36	23.15	34.77	
		H	19.71	3.62	-2.35	20.97	34.77	

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 17 BW: 10M QPSK RB: 1,0	709.0	23780	V	20.81	3.65	-1.85	22.61	34.77
			H	18	3.65	-1.85	19.8	34.77
	710.0	23790	V	19.94	3.65	-1.87	21.72	34.77
			H	16.74	3.65	-1.87	18.52	34.77
711.0	23800	V	20.7	3.62	-2.33	21.99	34.77	
		H	18.28	3.62	-2.33	19.57	34.77	
LTE BAND 17 BW: 10M QPSK RB: 1,49	709.0	23780	V	19.1	3.65	-1.93	20.82	34.77
			H	16.58	3.65	-1.92	18.31	34.77
	710.0	23790	V	18.83	3.63	-2.15	20.31	34.77
			H	17.06	3.63	-2.14	18.55	34.77
711.0	23800	V	20.42	3.62	-2.36	21.68	34.77	
		H	18.59	3.62	-2.36	19.85	34.77	
LTE BAND 17 BW: 10M 16QAM RB: 1,0	709.0	23780	V	20.76	3.65	-1.84	22.57	34.77
			H	18.65	3.65	-1.84	20.46	34.77
	710.0	23790	V	19.29	3.65	-1.86	21.08	34.77
			H	17.6	3.65	-1.87	19.38	34.77
711.0	23800	V	19.41	3.64	-2.08	20.97	34.77	
		H	16.98	3.64	-2.08	18.54	34.77	
LTE BAND 17 BW: 10M 16QAM RB: 1,49	709.0	23780	V	19.84	3.65	-1.92	21.57	34.77
			H	17.29	3.65	-1.92	19.02	34.77
	710.0	23790	V	19.32	3.63	-2.15	20.8	34.77
			H	17.24	3.63	-2.15	18.72	34.77
711.0	23800	V	21.54	3.62	-2.36	22.8	34.77	
		H	19.71	3.62	-2.35	20.98	34.77	

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 12 BW: 1.4M QPSK RB: 1,0	699.7	23017	V	18.41	3.67	-2.09	19.99	34.77
			H	16.13	3.67	-2.1	17.7	34.77
	707.5	23095	V	20.54	3.65	-1.82	22.37	34.77
			H	18.33	3.65	-1.85	20.14	34.77
	715.3	23173	V	21.43	3.62	-2.32	22.72	34.77
			H	18.47	3.62	-2.3	19.79	34.77
LTE BAND 12 BW: 1.4M QPSK RB: 1,5	699.7	23017	V	19.09	3.68	-2.26	20.52	34.77
			H	16.16	3.67	-2.05	17.77	34.77
	707.5	23095	V	19.99	3.65	-1.88	21.76	34.77
			H	17.65	3.65	-1.91	19.39	34.77
	715.3	23173	V	21.31	3.62	-2.36	22.57	34.77
			H	18.49	3.62	-2.37	19.74	34.77
LTE BAND 12 BW: 1.4M 16QAM RB: 1,0	699.7	23017	V	18.47	3.67	-2.1	20.04	34.77
			H	16.18	3.67	-2.11	17.74	34.77
	707.5	23095	V	20.66	3.65	-1.82	22.49	34.77
			H	18.19	3.65	-1.82	20.03	34.77
	715.3	23173	V	21.38	3.62	-2.3	22.71	34.77
			H	18.52	3.62	-2.31	19.84	34.77
LTE BAND 12 BW: 1.4M 16QAM RB: 1,5	699.7	23017	V	19.05	3.68	-2.26	20.47	34.77
			H	16.35	3.67	-2	18.01	34.77
	707.5	23095	V	20.19	3.65	-1.87	21.97	34.77
			H	17.56	3.65	-1.89	19.32	34.77
	715.3	23173	V	21.73	3.62	-2.38	22.96	34.77
			H	18.93	3.62	-2.36	20.19	34.77

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 26 BW: 1.4M QPSK RB: 1,0	814.7	26697	V	17.68	3.44	-2.63	18.49	50.00
			H	18	3.44	-2.63	18.81	50.00
	819.0	26740	V	16.62	3.44	-2.67	17.4	50.00
			H	17.38	3.44	-2.66	18.16	50.00
823.3	26783	V	14.68	3.45	-2.94	15.19	50.00	
		H	15.85	3.45	-2.94	16.36	50.00	
LTE BAND 26 BW: 1.4M QPSK RB: 1,5	814.7	26697	V	17.34	3.44	-2.52	18.27	50.00
			H	17.96	3.44	-2.52	18.88	50.00
	819.0	26740	V	15.86	3.44	-2.73	16.58	50.00
			H	16.78	3.44	-2.73	17.5	50.00
823.3	26783	V	14.65	3.45	-2.98	15.12	50.00	
		H	15.78	3.45	-2.99	16.24	50.00	
LTE BAND 26 BW: 1.4M 16QAM RB: 1,0	814.7	26697	V	19.05	3.44	-2.61	19.88	50.00
			H	19.13	3.44	-2.59	19.98	50.00
	819.0	26740	V	16.69	3.44	-2.68	17.45	50.00
			H	17.53	3.44	-2.67	18.3	50.00
823.3	26783	V	14.89	3.45	-2.94	15.4	50.00	
		H	16.11	3.45	-2.94	16.61	50.00	
LTE BAND 26 BW: 1.4M 16QAM RB: 1,5	814.7	26697	V	18.91	3.44	-2.52	19.83	50.00
			H	19.11	3.44	-2.52	20.03	50.00
	819.0	26740	V	15.98	3.44	-2.72	16.71	50.00
			H	16.94	3.44	-2.74	17.65	50.00
823.3	26783	V	14.89	3.45	-2.99	15.35	50.00	
		H	16.04	3.45	-2.97	16.52	50.00	

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 26 BW: 3M QPSK RB: 1,0	815.5	26705	V	19.77	3.44	-2.62	20.59	50.00
			H	19.91	3.44	-2.57	20.77	50.00
	819.0	26740	V	17.25	3.44	-2.62	18.07	50.00
			H	17.93	3.44	-2.63	18.74	50.00
822.5	26775	V	19.44	3.45	-2.94	19.94	50.00	
		H	19.61	3.45	-2.88	20.17	50.00	
LTE BAND 26 BW: 3M QPSK RB: 1,14	815.5	26705	V	17.5	3.44	-2.56	18.38	50.00
			H	18.08	3.44	-2.58	18.94	50.00
	819.0	26740	V	15.35	3.45	-2.78	16.01	50.00
			H	16.33	3.45	-2.77	17	50.00
822.5	26775	V	14.49	3.45	-2.98	14.95	50.00	
		H	15.84	3.45	-2.99	16.3	50.00	
LTE BAND 26 BW: 3M 16QAM RB: 1,0	815.5	26705	V	18.57	3.44	-2.64	19.37	50.00
			H	18.63	3.44	-2.61	19.46	50.00
	819.0	26740	V	17.52	3.44	-2.64	18.32	50.00
			H	18.1	3.44	-2.63	18.91	50.00
822.5	26775	V	15.27	3.45	-2.84	15.88	50.00	
		H	16.55	3.45	-2.84	17.16	50.00	
LTE BAND 26 BW: 3M 16QAM RB: 1,14	815.5	26705	V	18.48	3.44	-2.6	19.33	50.00
			H	18.62	3.44	-2.58	19.48	50.00
	819.0	26740	V	16.44	3.45	-2.78	17.11	50.00
			H	16.43	3.45	-2.79	17.08	50.00
822.5	26775	V	14.9	3.45	-2.97	15.38	50.00	
		H	16.79	3.45	-2.97	17.27	50.00	

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 26 BW: 5M QPSK RB: 1,0	816.5	26715	V	19.61	3.44	-2.64	20.41	50.00
			H	19.84	3.44	-2.63	20.66	50.00
	819.0	26740	V	17.53	3.44	-2.58	18.4	50.00
			H	18.08	3.44	-2.59	18.94	50.00
821.5	26765	V	18.8	3.44	-2.73	19.52	50.00	
		H	20.17	3.44	-2.72	20.9	50.00	
LTE BAND 26 BW: 5M QPSK RB: 1,24	816.5	26715	V	16.55	3.44	-2.69	17.31	50.00
			H	17.33	3.44	-2.69	18.09	50.00
	819.0	26740	V	14.8	3.45	-2.84	15.4	50.00
			H	15.87	3.45	-2.84	16.48	50.00
821.5	26765	V	14.44	3.45	-2.98	14.91	50.00	
		H	15.58	3.45	-2.98	16.05	50.00	
LTE BAND 26 BW: 5M 16QAM RB: 1,0	816.5	26715	V	19.4	3.44	-2.63	20.22	50.00
			H	18.42	3.44	-2.65	19.21	50.00
	819.0	26740	V	18	3.44	-2.54	18.9	50.00
			H	18.48	3.44	-2.59	19.34	50.00
821.5	26765	V	16.34	3.44	-2.73	17.06	50.00	
		H	17.4	3.44	-2.68	18.17	50.00	
LTE BAND 26 BW: 5M 16QAM RB: 1,24	816.5	26715	V	17.19	3.44	-2.7	17.94	50.00
			H	16.99	3.44	-2.68	17.75	50.00
	819.0	26740	V	14.94	3.45	-2.83	15.56	50.00
			H	16.06	3.45	-2.83	16.67	50.00
821.5	26765	V	14.85	3.45	-2.98	15.31	50.00	
		H	15.98	3.45	-2.99	16.45	50.00	

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 26 BW: 10M QPSK RB: 1,0	819.0	26740	V	18.05	3.44	-2.47	19.02	50.00
			H	18.01	3.44	-2.46	19	50.00
LTE BAND 26 BW: 10M QPSK RB: 1,49	819.0	26740	V	14.73	3.45	-2.91	15.27	50.00
			H	15.72	3.45	-2.95	16.22	50.00
LTE BAND 26 BW: 10M 16QAM RB: 1,0	819.0	26740	V	19.62	3.44	-2.45	20.61	50.00
			H	18.81	3.44	-2.42	19.84	50.00
LTE BAND 26 BW: 10M 16QAM RB: 1,49	819.0	26740	V	14.87	3.45	-2.96	15.36	50.00
			H	15.74	3.45	-2.96	16.23	50.00

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 26 BW: 15M QPSK RB: 1,0	831.5	26865	V	18.18	3.44	-2.55	19.07	38.45
			H	18.32	5.59	-2.52	21.39	38.45
	836.5	26915	V	15.23	3.45	-3.05	15.63	38.45
			H	16.3	5.6	-3.04	18.86	38.45
	841.5	26965	V	16.14	3.45	-3.27	16.33	38.45
			H	16.31	5.6	-3.27	18.64	38.45
LTE BAND 26 BW: 15M QPSK RB: 1,74	831.5	26865	V	16.12	3.45	-3.2	16.37	38.45
			H	16.72	5.6	-3.19	19.13	38.45
	836.5	26915	V	14.93	3.45	-3.31	15.08	38.45
			H	13.38	5.6	-3.32	15.67	38.45
	841.5	26965	V	14.54	3.46	-3.33	14.67	38.45
			H	14.25	5.61	-3.33	16.53	38.45
LTE BAND 26 BW: 15M 16QAM RB: 1,0	831.5	26865	V	19.27	3.44	-2.54	20.18	38.45
			H	19.16	5.59	-2.53	22.23	38.45
	836.5	26915	V	16.24	3.45	-3.05	16.64	38.45
			H	17.68	5.6	-2.99	20.28	38.45
	841.5	26965	V	18.06	3.45	-3.28	18.23	38.45
			H	16.99	5.6	-3.27	19.32	38.45
LTE BAND 26 BW: 15M 16QAM RB: 1,74	831.5	26865	V	17.67	3.45	-3.2	17.93	38.45
			H	18.14	5.6	-3.19	20.55	38.45
	836.5	26915	V	16.11	3.45	-3.31	16.25	38.45
			H	13.95	5.6	-3.31	16.24	38.45
	841.5	26965	V	14.93	3.46	-3.31	15.08	38.45
			H	14.59	5.61	-3.32	16.88	38.45

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 26 BW: 1.4M QPSK RB: 1,0	814.7	26697	V	17.68	3.44	-2.63	18.49	50.00
			H	18	3.44	-2.63	18.81	50.00
	819.0	26740	V	16.62	3.44	-2.67	17.4	50.00
			H	17.38	3.44	-2.66	18.16	50.00
823.3	26783	V	14.68	3.45	-2.94	15.19	50.00	
		H	15.85	3.45	-2.94	16.36	50.00	
LTE BAND 26 BW: 1.4M QPSK RB: 1,5	814.7	26697	V	17.34	3.44	-2.52	18.27	50.00
			H	17.96	3.44	-2.52	18.88	50.00
	819.0	26740	V	15.86	3.44	-2.73	16.58	50.00
			H	16.78	3.44	-2.73	17.5	50.00
823.3	26783	V	14.65	3.45	-2.98	15.12	50.00	
		H	15.78	3.45	-2.99	16.24	50.00	
LTE BAND 26 BW: 1.4M 16QAM RB: 1,0	814.7	26697	V	19.05	3.44	-2.61	19.88	50.00
			H	19.13	3.44	-2.59	19.98	50.00
	819.0	26740	V	16.69	3.44	-2.68	17.45	50.00
			H	17.53	3.44	-2.67	18.3	50.00
823.3	26783	V	14.89	3.45	-2.94	15.4	50.00	
		H	16.11	3.45	-2.94	16.61	50.00	
LTE BAND 26 BW: 1.4M 16QAM RB: 1,5	814.7	26697	V	18.91	3.44	-2.52	19.83	50.00
			H	19.11	3.44	-2.52	20.03	50.00
	819.0	26740	V	15.98	3.44	-2.72	16.71	50.00
			H	16.94	3.44	-2.74	17.65	50.00
823.3	26783	V	14.89	3.45	-2.99	15.35	50.00	
		H	16.04	3.45	-2.97	16.52	50.00	

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 26 BW: 3M QPSK RB: 1,0	815.5	26705	V	19.77	3.44	-2.62	20.59	50.00
			H	19.91	3.44	-2.57	20.77	50.00
	819.0	26740	V	17.25	3.44	-2.62	18.07	50.00
			H	17.93	3.44	-2.63	18.74	50.00
822.5	26775	V	19.44	3.45	-2.94	19.94	50.00	
		H	19.61	3.45	-2.88	20.17	50.00	
LTE BAND 26 BW: 3M QPSK RB: 1,14	815.5	26705	V	17.5	3.44	-2.56	18.38	50.00
			H	18.08	3.44	-2.58	18.94	50.00
	819.0	26740	V	15.35	3.45	-2.78	16.01	50.00
			H	16.33	3.45	-2.77	17	50.00
822.5	26775	V	14.49	3.45	-2.98	14.95	50.00	
		H	15.84	3.45	-2.99	16.3	50.00	
LTE BAND 26 BW: 3M 16QAM RB: 1,0	815.5	26705	V	18.57	3.44	-2.64	19.37	50.00
			H	18.63	3.44	-2.61	19.46	50.00
	819.0	26740	V	17.52	3.44	-2.64	18.32	50.00
			H	18.1	3.44	-2.63	18.91	50.00
822.5	26775	V	15.27	3.45	-2.84	15.88	50.00	
		H	16.55	3.45	-2.84	17.16	50.00	
LTE BAND 26 BW: 3M 16QAM RB: 1,14	815.5	26705	V	18.48	3.44	-2.6	19.33	50.00
			H	18.62	3.44	-2.58	19.48	50.00
	819.0	26740	V	16.44	3.45	-2.78	17.11	50.00
			H	16.43	3.45	-2.79	17.08	50.00
822.5	26775	V	14.9	3.45	-2.97	15.38	50.00	
		H	16.79	3.45	-2.97	17.27	50.00	

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 26 BW: 5M QPSK RB: 1,0	816.5	26715	V	19.61	3.44	-2.64	20.41	50.00
			H	19.84	3.44	-2.63	20.66	50.00
	819.0	26740	V	17.53	3.44	-2.58	18.4	50.00
			H	18.08	3.44	-2.59	18.94	50.00
821.5	26765	V	18.8	3.44	-2.73	19.52	50.00	
		H	20.17	3.44	-2.72	20.9	50.00	
LTE BAND 26 BW: 5M QPSK RB: 1,24	816.5	26715	V	16.55	3.44	-2.69	17.31	50.00
			H	17.33	3.44	-2.69	18.09	50.00
	819.0	26740	V	14.8	3.45	-2.84	15.4	50.00
			H	15.87	3.45	-2.84	16.48	50.00
821.5	26765	V	14.44	3.45	-2.98	14.91	50.00	
		H	15.58	3.45	-2.98	16.05	50.00	
LTE BAND 26 BW: 5M 16QAM RB: 1,0	816.5	26715	V	19.4	3.44	-2.63	20.22	50.00
			H	18.42	3.44	-2.65	19.21	50.00
	819.0	26740	V	18	3.44	-2.54	18.9	50.00
			H	18.48	3.44	-2.59	19.34	50.00
821.5	26765	V	16.34	3.44	-2.73	17.06	50.00	
		H	17.4	3.44	-2.68	18.17	50.00	
LTE BAND 26 BW: 5M 16QAM RB: 1,24	816.5	26715	V	17.19	3.44	-2.7	17.94	50.00
			H	16.99	3.44	-2.68	17.75	50.00
	819.0	26740	V	14.94	3.45	-2.83	15.56	50.00
			H	16.06	3.45	-2.83	16.67	50.00
821.5	26765	V	14.85	3.45	-2.98	15.31	50.00	
		H	15.98	3.45	-2.99	16.45	50.00	

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 26 BW: 10M QPSK RB: 1,0	819.0	26740	V	18.05	3.44	-2.47	19.02	50.00
			H	18.01	3.44	-2.46	19	50.00
LTE BAND 26 BW: 10M QPSK RB: 1,49	819.0	26740	V	14.73	3.45	-2.91	15.27	50.00
			H	15.72	3.45	-2.95	16.22	50.00
LTE BAND 26 BW: 10M 16QAM RB: 1,0	819.0	26740	V	19.62	3.44	-2.45	20.61	50.00
			H	18.81	3.44	-2.42	19.84	50.00
LTE BAND 26 BW: 10M 16QAM RB: 1,49	819.0	26740	V	14.87	3.45	-2.96	15.36	50.00
			H	15.74	3.45	-2.96	16.23	50.00

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 30 BW: 5M QPSK RB: 1,0	2307.5	27685	V	16.01	10.39	-5.27	21.13	24.00
			H	14.34	10.39	-5.27	19.47	24.00
	2310.0	27710	V	16.23	10.39	-5.26	21.35	24.00
			H	14.7	10.39	-5.27	19.83	24.00
	2312.5	27735	V	16.37	10.39	-5.27	21.49	24.00
			H	15	10.39	-5.27	20.12	24.00
LTE BAND 30 BW: 5M QPSK RB: 1,24	2307.5	27685	V	16.19	10.39	-5.27	21.31	24.00
			H	14.78	10.39	-5.27	19.9	24.00
	2310.0	27710	V	15.92	10.39	-5.27	21.05	24.00
			H	15.6	10.39	-5.27	20.72	24.00
	2312.5	27735	V	16.15	10.4	-5.27	21.27	24.00
			H	15.87	10.4	-5.27	20.99	24.00
LTE BAND 30 BW: 5M 16QAM RB: 1,0	2307.5	27685	V	14.94	10.39	-5.27	20.07	24.00
			H	14.28	10.39	-5.27	19.41	24.00
	2310.0	27710	V	15.12	10.39	-5.26	20.24	24.00
			H	14.57	10.39	-5.26	19.69	24.00
	2312.5	27735	V	15.36	10.39	-5.27	20.48	24.00
			H	15.01	10.39	-5.27	20.13	24.00
LTE BAND 30 BW: 5M 16QAM RB: 1,24	2307.5	27685	V	15.15	10.39	-5.27	20.27	24.00
			H	14.73	10.39	-5.27	19.85	24.00
	2310.0	27710	V	15.84	10.39	-5.27	20.97	24.00
			H	15.6	10.39	-5.27	20.72	24.00
	2312.5	27735	V	15.16	10.4	-5.27	20.28	24.00
			H	15.88	10.4	-5.27	21	24.00

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 30 BW: 10M QPSK RB: 1,0	2310.0	27710	V	15.77	10.39	-5.27	20.89	24.00
			H	14.21	10.39	-5.27	19.33	24.00
LTE BAND 30 BW: 10M QPSK RB: 1,49	2310.0	27710	V	16.1	10.39	-5.27	21.22	24.00
			H	15.89	10.4	-5.27	21.01	24.00
LTE BAND 30 BW: 10M 16QAM RB: 1,0	2310.0	27710	V	14.76	10.39	-5.27	19.89	24.00
			H	14.26	10.39	-5.27	19.38	24.00
LTE BAND 30 BW: 10M 16QAM RB: 1,49	2310.0	27710	V	16.21	10.4	-5.27	21.33	24.00
			H	15.89	10.4	-5.27	21.01	24.00

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 38 BW: 5M QPSK RB: 1,0	2572.5	37775	V	19.54	10.61	-5.63	24.52	33.00
			H	16.08	10.61	-5.62	21.07	33.00
	2595.0	38000	V	17.52	10.64	-5.64	22.51	33.00
			H	14.23	10.64	-5.65	19.23	33.00
2617.5	38225	V	17.32	10.67	-5.67	22.32	33.00	
		H	15.58	10.67	-5.67	20.58	33.00	
LTE BAND 38 BW: 5M QPSK RB: 1,24	2572.5	37775	V	19.27	10.61	-5.63	24.25	33.00
			H	15.83	10.61	-5.63	20.81	33.00
	2595.0	38000	V	17	10.64	-5.65	21.99	33.00
			H	14.65	10.64	-5.65	19.65	33.00
2617.5	38225	V	17.42	10.68	-5.68	22.42	33.00	
		H	15.22	10.68	-5.68	20.21	33.00	
LTE BAND 38 BW: 5M 16QAM RB: 1,0	2572.5	37775	V	19.29	10.61	-5.62	24.28	33.00
			H	15.78	10.61	-5.62	20.77	33.00
	2595.0	38000	V	17.46	10.64	-5.64	22.46	33.00
			H	13.49	10.64	-5.64	18.48	33.00
2617.5	38225	V	17.4	10.67	-5.67	22.4	33.00	
		H	15.62	10.67	-5.67	20.63	33.00	
LTE BAND 38 BW: 5M 16QAM RB: 1,24	2572.5	37775	V	18.99	10.61	-5.63	23.98	33.00
			H	15.37	10.61	-5.63	20.36	33.00
	2595.0	38000	V	16.88	10.65	-5.65	21.88	33.00
			H	14.12	10.64	-5.65	19.12	33.00
2617.5	38225	V	17.65	10.68	-5.68	22.65	33.00	
		H	15.51	10.68	-5.68	20.51	33.00	

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 38 BW: 10M QPSK RB: 1,0	2575.0	37800	V	19.46	10.61	-5.63	24.44	33.00
			H	15.83	10.61	-5.63	20.82	33.00
	2595.0	38000	V	17.73	10.64	-5.64	22.72	33.00
			H	14.29	10.64	-5.64	19.28	33.00
2615.0	38200	V	16.93	10.66	-5.66	21.93	33.00	
		H	15.59	10.66	-5.66	20.59	33.00	
LTE BAND 38 BW: 10M QPSK RB: 1,49	2575.0	37800	V	18.78	10.62	-5.63	23.77	33.00
			H	14.96	10.62	-5.63	19.95	33.00
	2595.0	38000	V	16.81	10.65	-5.65	21.81	33.00
			H	14.9	10.65	-5.65	19.9	33.00
2615.0	38200	V	17.26	10.68	-5.68	22.26	33.00	
		H	15.15	10.68	-5.68	20.15	33.00	
LTE BAND 38 BW: 10M 16QAM RB: 1,0	2575.0	37800	V	20.26	10.61	-5.62	25.24	33.00
			H	15.69	10.61	-5.63	20.67	33.00
	2595.0	38000	V	16.88	10.63	-5.64	21.88	33.00
			H	14.06	10.64	-5.64	19.05	33.00
2615.0	38200	V	16.83	10.66	-5.66	21.84	33.00	
		H	15.54	10.66	-5.66	20.54	33.00	
LTE BAND 38 BW: 10M 16QAM RB: 1,49	2575.0	37800	V	19.29	10.62	-5.63	24.28	33.00
			H	15.35	10.62	-5.63	20.34	33.00
	2595.0	38000	V	16.41	10.65	-5.65	21.41	33.00
			H	14.51	10.65	-5.65	19.5	33.00
2615.0	38200	V	17.63	10.68	-5.68	22.63	33.00	
		H	15.55	10.68	-5.68	20.55	33.00	

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 38 BW: 15M QPSK RB: 1,0	2577.5	37825	V	19.52	10.61	-5.62	24.5	33.00
			H	15.84	10.61	-5.62	20.83	33.00
	2595.0	38000	V	17.98	10.63	-5.64	22.98	33.00
			H	14.23	10.63	-5.64	19.22	33.00
2612.5	38175	V	16.7	10.66	-5.66	21.7	33.00	
		H	15.53	10.66	-5.66	20.53	33.00	
LTE BAND 38 BW: 15M QPSK RB: 1,74	2577.5	37825	V	18.5	10.63	-5.64	23.49	33.00
			H	14.43	10.63	-5.64	19.42	33.00
	2595.0	38000	V	16.67	10.65	-5.65	21.67	33.00
			H	15.1	10.65	-5.65	20.1	33.00
2612.5	38175	V	17.32	10.68	-5.68	22.32	33.00	
		H	15.17	10.68	-5.68	20.17	33.00	
LTE BAND 38 BW: 15M 16QAM RB: 1,0	2577.5	37825	V	19.29	10.61	-5.62	24.28	33.00
			H	15.64	10.61	-5.62	20.62	33.00
	2595.0	38000	V	17.17	10.63	-5.64	22.16	33.00
			H	13.48	10.63	-5.64	18.47	33.00
2612.5	38175	V	16.44	10.66	-5.66	21.45	33.00	
		H	15.27	10.66	-5.66	20.27	33.00	
LTE BAND 38 BW: 15M 16QAM RB: 1,74	2577.5	37825	V	17.58	10.62	-5.63	22.57	33.00
			H	14.5	10.63	-5.64	19.49	33.00
	2595.0	38000	V	16.35	10.65	-5.65	21.35	33.00
			H	14.73	10.65	-5.65	19.73	33.00
2612.5	38175	V	17.6	10.68	-5.68	22.6	33.00	
		H	15.53	10.68	-5.68	20.53	33.00	

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 38 BW: 20M QPSK RB: 1,0	2580.0	37850	V	19.55	10.61	-5.62	24.54	33.00
			H	15.94	10.61	-5.62	20.92	33.00
	2595.0	38000	V	19.48	10.61	-5.62	24.46	33.00
			H	15.88	10.61	-5.62	20.87	33.00
2610.0	38150	V	16.71	10.65	-5.65	21.71	33.00	
		H	15.01	10.65	-5.65	20.01	33.00	
LTE BAND 38 BW: 20M QPSK RB: 1,99	2580.0	37850	V	17.6	10.63	-5.64	22.59	33.00
			H	14.08	10.64	-5.64	19.08	33.00
	2595.0	38000	V	17.58	10.64	-5.64	22.58	33.00
			H	14.17	10.64	-5.64	19.16	33.00
2610.0	38150	V	17.23	10.68	-5.68	22.23	33.00	
		H	15.2	10.68	-5.68	20.2	33.00	
LTE BAND 38 BW: 20M 16QAM RB: 1,0	2580.0	37850	V	19.33	10.61	-5.62	24.32	33.00
			H	15.58	10.61	-5.63	20.57	33.00
	2595.0	38000	V	19.3	10.61	-5.62	24.28	33.00
			H	16.52	10.61	-5.62	21.5	33.00
2610.0	38150	V	16.39	10.65	-5.65	21.39	33.00	
		H	14.81	10.65	-5.65	19.81	33.00	
LTE BAND 38 BW: 20M 16QAM RB: 1,99	2580.0	37850	V	17.15	10.63	-5.64	22.14	33.00
			H	13.41	10.63	-5.64	18.4	33.00
	2595.0	38000	V	17.06	10.63	-5.64	22.05	33.00
			H	14.39	10.63	-5.64	19.38	33.00
2610.0	38150	V	17.66	10.68	-5.68	22.66	33.00	
		H	15.49	10.68	-5.68	20.49	33.00	

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 41 BW: 5M QPSK RB: 1,0	2498.5	39675	V	19.13	10.5	-5.52	24.11	33.00
			H	17.25	10.5	-5.52	22.23	33.00
	2593.0	40620	V	17.71	10.63	-5.64	22.71	33.00
			H	14.65	10.63	-5.64	19.65	33.00
2687.5	41565	V	18.41	10.77	-5.77	23.41	33.00	
		H	15.59	10.77	-5.77	20.59	33.00	
LTE BAND 41 BW: 5M QPSK RB: 1,24	2498.5	39675	V	20.14	10.5	-5.52	25.12	33.00
			H	17.84	10.5	-5.52	22.82	33.00
	2593.0	40620	V	17.48	10.64	-5.65	22.47	33.00
			H	14.99	10.64	-5.65	19.99	33.00
2687.5	41565	V	18.27	10.78	-5.77	23.28	33.00	
		H	15.2	10.78	-5.77	20.2	33.00	
LTE BAND 41 BW: 5M 16QAM RB: 1,0	2498.5	39675	V	18.73	10.5	-5.52	23.71	33.00
			H	16.92	10.5	-5.52	21.9	33.00
	2593.0	40620	V	17.31	10.63	-5.64	22.3	33.00
			H	14.27	10.63	-5.64	19.26	33.00
2687.5	41565	V	18.22	10.77	-5.77	23.23	33.00	
		H	15.57	10.77	-5.77	20.57	33.00	
LTE BAND 41 BW: 5M 16QAM RB: 1,24	2498.5	39675	V	20.04	10.5	-5.52	25.02	33.00
			H	17.65	10.5	-5.52	22.63	33.00
	2593.0	40620	V	17.04	10.64	-5.65	22.04	33.00
			H	14.52	10.64	-5.65	19.52	33.00
2687.5	41565	V	18.38	10.78	-5.77	23.38	33.00	
		H	15.32	10.78	-5.77	20.33	33.00	

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 41 BW: 10M QPSK RB: 1,0	2501.0	39700	V	18.94	10.5	-5.52	23.92	33.00
			H	16.94	10.5	-5.52	21.92	33.00
	2593.0	40620	V	17.65	10.63	-5.64	22.64	33.00
			H	14.33	10.63	-5.64	19.32	33.00
2685.0	41540	V	17.58	10.77	-5.77	22.58	33.00	
		H	15.41	10.77	-5.77	20.41	33.00	
LTE BAND 41 BW: 10M QPSK RB: 1,49	2501.0	39700	V	20.43	10.51	-5.52	25.41	33.00
			H	17.73	10.51	-5.52	22.71	33.00
	2593.0	40620	V	17.26	10.64	-5.65	22.25	33.00
			H	15	10.64	-5.65	20	33.00
2685.0	41540	V	18.1	10.78	-5.77	23.1	33.00	
		H	15.03	10.78	-5.77	20.03	33.00	
LTE BAND 41 BW: 10M 16QAM RB: 1,0	2501.0	39700	V	18.53	10.5	-5.52	23.51	33.00
			H	16.63	10.5	-5.52	21.61	33.00
	2593.0	40620	V	17.25	10.63	-5.64	22.24	33.00
			H	14.1	10.63	-5.64	19.1	33.00
2685.0	41540	V	17.58	10.77	-5.77	22.58	33.00	
		H	15.34	10.77	-5.77	20.34	33.00	
LTE BAND 41 BW: 10M 16QAM RB: 1,49	2501.0	39700	V	20.76	10.51	-5.52	25.74	33.00
			H	18.11	10.51	-5.52	23.09	33.00
	2593.0	40620	V	16.85	10.64	-5.65	21.84	33.00
			H	14.63	10.64	-5.65	19.63	33.00
2685.0	41540	V	18.24	10.78	-5.77	23.24	33.00	
		H	15.18	10.78	-5.77	20.19	33.00	

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 41 BW: 15M QPSK RB: 1,0	2503.5	39725	V	18.91	10.5	-5.52	23.89	33.00
			H	16.98	10.5	-5.52	21.96	33.00
	2593.0	40620	V	17.78	10.63	-5.64	22.77	33.00
			H	14.25	10.63	-5.64	19.24	33.00
2682.5	41515	V	17.16	10.76	-5.76	22.15	33.00	
		H	14.89	10.76	-5.76	19.89	33.00	
LTE BAND 41 BW: 15M QPSK RB: 1,74	2503.5	39725	V	20.79	10.51	-5.53	25.77	33.00
			H	17.89	10.51	-5.53	22.87	33.00
	2593.0	40620	V	17.16	10.65	-5.65	22.15	33.00
			H	15.08	10.65	-5.65	20.08	33.00
2682.5	41515	V	17.99	10.78	-5.77	23	33.00	
		H	14.92	10.78	-5.77	19.93	33.00	
LTE BAND 41 BW: 15M 16QAM RB: 1,0	2503.5	39725	V	18.49	10.5	-5.52	23.47	33.00
			H	16.56	10.5	-5.52	21.54	33.00
	2593.0	40620	V	17.33	10.63	-5.64	22.32	33.00
			H	13.8	10.63	-5.64	18.79	33.00
2682.5	41515	V	17.11	10.76	-5.76	22.11	33.00	
		H	14.81	10.76	-5.76	19.81	33.00	
LTE BAND 41 BW: 15M 16QAM RB: 1,74	2503.5	39725	V	21.17	10.51	-5.53	26.16	33.00
			H	18.36	10.51	-5.53	23.34	33.00
	2593.0	40620	V	16.74	10.65	-5.65	21.74	33.00
			H	14.64	10.65	-5.65	19.64	33.00
2682.5	41515	V	18.16	10.78	-5.77	23.16	33.00	
		H	15.08	10.78	-5.77	20.09	33.00	

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 41 BW: 20M QPSK RB: 1,0	2506.0	39750	V	18.89	10.5	-5.52	23.87	33.00
			H	17.16	10.5	-5.52	22.14	33.00
	2593.0	40620	V	17.87	10.62	-5.63	22.86	33.00
			H	14.16	10.62	-5.63	19.15	33.00
	2680.0	41490	V	17.24	10.75	-5.76	22.23	33.00
			H	14.83	10.75	-5.76	19.82	33.00
LTE BAND 41 BW: 20M QPSK RB: 1,99	2506.0	39750	V	21.01	10.52	-5.53	26	33.00
			H	18.14	10.52	-5.53	23.13	33.00
	2593.0	40620	V	17.11	10.65	-5.65	22.11	33.00
			H	15.26	10.65	-5.65	20.26	33.00
	2680.0	41490	V	17.97	10.78	-5.77	22.97	33.00
			H	14.99	10.78	-5.77	19.99	33.00
LTE BAND 41 BW: 20M 16QAM RB: 1,0	2506.0	39750	V	18.61	10.5	-5.52	23.59	33.00
			H	16.67	10.5	-5.52	21.65	33.00
	2593.0	40620	V	17.49	10.62	-5.63	22.48	33.00
			H	13.8	10.62	-5.63	18.79	33.00
	2680.0	41490	V	16.96	10.75	-5.76	21.95	33.00
			H	14.45	10.75	-5.76	19.45	33.00
LTE BAND 41 BW: 20M 16QAM RB: 1,99	2506.0	39750	V	21.08	10.52	-5.53	26.07	33.00
			H	18.06	10.52	-5.53	23.05	33.00
	2593.0	40620	V	16.67	10.65	-5.65	21.67	33.00
			H	14.95	10.65	-5.65	19.95	33.00
	2680.0	41490	V	18.15	10.78	-5.77	23.15	33.00
			H	14.98	10.78	-5.77	19.99	33.00

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 66 BW: 1.4M QPSK RB: 1,0	1710.7	131979	V	17.91	9.34	-4.45	22.79	30.00
			H	13.13	9.34	-4.45	18.01	30.00
	1745.0	132322	V	19	9.43	-4.49	23.95	30.00
			H	12.22	9.43	-4.49	17.16	30.00
1779.3	132665	V	17.97	9.54	-4.52	22.99	30.00	
		H	10.62	9.54	-4.52	15.64	30.00	
LTE BAND 66 BW: 1.4M QPSK RB: 1,5	1710.7	131979	V	18.3	9.33	-4.45	23.18	30.00
			H	13.58	9.33	-4.45	18.46	30.00
	1745.0	132322	V	18.81	9.44	-4.49	23.76	30.00
			H	12.04	9.44	-4.49	16.99	30.00
1779.3	132665	V	17.71	9.55	-4.53	22.73	30.00	
		H	10.33	9.55	-4.53	15.35	30.00	
LTE BAND 66 BW: 1.4M 16QAM RB: 1,0	1710.7	131979	V	17.12	9.33	-4.45	22	30.00
			H	12.58	9.33	-4.45	17.46	30.00
	1745.0	132322	V	18.93	9.43	-4.49	23.87	30.00
			H	12.12	9.44	-4.49	17.07	30.00
1779.3	132665	V	17.48	9.54	-4.52	22.5	30.00	
		H	10.21	9.54	-4.52	15.23	30.00	
LTE BAND 66 BW: 1.4M 16QAM RB: 1,5	1710.7	131979	V	17.58	9.33	-4.45	22.46	30.00
			H	13.03	9.33	-4.45	17.91	30.00
	1745.0	132322	V	18.95	9.44	-4.49	23.9	30.00
			H	12.22	9.44	-4.49	17.17	30.00
1779.3	132665	V	17.22	9.55	-4.53	22.24	30.00	
		H	9.85	9.55	-4.53	14.87	30.00	

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dB <i>i</i>	dB	dBm	dBm
LTE BAND 66 BW: 3M QPSK RB: 1,0	1711.5	131987	V	17.9	9.34	-4.45	22.78	30.00
			H	13.13	9.34	-4.45	18.01	30.00
	1745.0	132322	V	18.81	9.43	-4.49	23.76	30.00
			H	11.87	9.43	-4.49	16.82	30.00
	1778.5	132657	V	17.67	9.54	-4.52	22.68	30.00
			H	10.49	9.54	-4.52	15.51	30.00
LTE BAND 66 BW: 3M QPSK RB: 1,14	1711.5	131987	V	18.82	9.33	-4.45	23.7	30.00
			H	14.07	9.33	-4.45	18.95	30.00
	1745.0	132322	V	18.77	9.44	-4.49	23.72	30.00
			H	12.17	9.44	-4.49	17.13	30.00
	1778.5	132657	V	17.66	9.55	-4.53	22.68	30.00
			H	10.29	9.55	-4.53	15.31	30.00
LTE BAND 66 BW: 3M 16QAM RB: 1,0	1711.5	131987	V	17.14	9.34	-4.45	22.03	30.00
			H	12.38	9.33	-4.45	17.26	30.00
	1745.0	132322	V	18.65	9.43	-4.49	23.6	30.00
			H	11.73	9.43	-4.49	16.67	30.00
	1778.5	132657	V	17.6	9.54	-4.52	22.62	30.00
			H	10.39	9.54	-4.52	15.41	30.00
LTE BAND 66 BW: 3M 16QAM RB: 1,14	1711.5	131987	V	18.46	9.33	-4.45	23.34	30.00
			H	13.7	9.33	-4.45	18.59	30.00
	1745.0	132322	V	18.99	9.44	-4.49	23.94	30.00
			H	12.36	9.44	-4.49	17.31	30.00
	1778.5	132657	V	17.06	9.55	-4.53	22.08	30.00
			H	9.76	9.55	-4.53	14.78	30.00

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 66 BW: 5M QPSK RB: 1,0	1712.5	131997	V	17.8	9.34	-4.45	22.68	30.00
			H	13.02	9.34	-4.45	17.9	30.00
	1745.0	132322	V	18.54	9.43	-4.49	23.48	30.00
			H	11.59	9.43	-4.49	16.54	30.00
1777.5	132647	V	17.22	9.53	-4.52	22.23	30.00	
		H	10.42	9.53	-4.52	15.43	30.00	
LTE BAND 66 BW: 5M QPSK RB: 1,24	1712.5	131997	V	18.78	9.34	-4.45	23.67	30.00
			H	14.04	9.34	-4.45	18.92	30.00
	1745.0	132322	V	18.49	9.44	-4.49	23.44	30.00
			H	12.04	9.44	-4.49	16.99	30.00
1777.5	132647	V	17.59	9.55	-4.53	22.61	30.00	
		H	10.24	9.55	-4.53	15.26	30.00	
LTE BAND 66 BW: 5M 16QAM RB: 1,0	1712.5	131997	V	17.12	9.34	-4.45	22	30.00
			H	12.32	9.34	-4.45	17.21	30.00
	1745.0	132322	V	18.41	9.43	-4.49	23.35	30.00
			H	11.44	9.43	-4.49	16.39	30.00
1777.5	132647	V	17.48	9.53	-4.52	22.5	30.00	
		H	10.55	9.53	-4.52	15.56	30.00	
LTE BAND 66 BW: 5M 16QAM RB: 1,24	1712.5	131997	V	18.78	9.34	-4.45	23.66	30.00
			H	14.07	9.34	-4.45	18.96	30.00
	1745.0	132322	V	18.84	9.44	-4.49	23.79	30.00
			H	12.28	9.44	-4.49	17.24	30.00
1777.5	132647	V	17	9.55	-4.53	22.02	30.00	
		H	9.73	9.55	-4.53	14.75	30.00	

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 66 BW: 10M QPSK RB: 1,0	1715.0	132022	V	17.71	9.34	-4.45	22.59	30.00
			H	12.97	9.34	-4.45	17.85	30.00
	1745.0	132322	V	18.32	9.42	-4.48	23.26	30.00
			H	11.44	9.42	-4.48	16.38	30.00
1775.0	132622	V	17	9.52	-4.51	22.01	30.00	
		H	11.03	9.52	-4.51	16.03	30.00	
LTE BAND 66 BW: 10M QPSK RB: 1,49	1715.0	132022	V	18.98	9.35	-4.46	23.88	30.00
			H	13.82	9.35	-4.46	18.72	30.00
	1745.0	132322	V	18.36	9.45	-4.49	23.31	30.00
			H	12.19	9.45	-4.49	17.15	30.00
1775.0	132622	V	17.47	9.55	-4.53	22.48	30.00	
		H	10.14	9.55	-4.53	15.16	30.00	
LTE BAND 66 BW: 10M 16QAM RB: 1,0	1715.0	132022	V	17.27	9.34	-4.45	22.15	30.00
			H	12.45	9.34	-4.45	17.34	30.00
	1745.0	132322	V	17.86	9.42	-4.48	22.8	30.00
			H	10.98	9.42	-4.48	15.92	30.00
1775.0	132622	V	16.9	9.52	-4.51	21.9	30.00	
		H	10.94	9.52	-4.51	15.95	30.00	
LTE BAND 66 BW: 10M 16QAM RB: 1,49	1715.0	132022	V	19.5	9.35	-4.46	24.4	30.00
			H	14.28	9.35	-4.46	19.18	30.00
	1745.0	132322	V	18.48	9.45	-4.49	23.44	30.00
			H	12.22	9.45	-4.49	17.18	30.00
1775.0	132622	V	17.06	9.54	-4.53	22.08	30.00	
		H	9.69	9.55	-4.53	14.71	30.00	

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 66 BW: 15M QPSK RB: 1,0	1717.5	132047	V	17.75	9.33	-4.45	22.63	30.00
			H	13.02	9.34	-4.45	17.91	30.00
	1745.0	132322	V	18.16	9.42	-4.48	23.1	30.00
			H	11.48	9.42	-4.48	16.42	30.00
1772.5	132597	V	16.77	9.5	-4.51	21.77	30.00	
		H	11.84	9.5	-4.51	16.83	30.00	
LTE BAND 66 BW: 15M QPSK RB: 1,74	1717.5	132047	V	18.96	9.37	-4.47	23.86	30.00
			H	13.22	9.37	-4.47	18.13	30.00
	1745.0	132322	V	18.02	9.46	-4.49	22.98	30.00
			H	12.29	9.46	-4.49	17.26	30.00
1772.5	132597	V	17.52	9.54	-4.53	22.54	30.00	
		H	10.2	9.54	-4.52	15.21	30.00	
LTE BAND 66 BW: 15M 16QAM RB: 1,0	1717.5	132047	V	17.23	9.34	-4.45	22.12	30.00
			H	12.67	9.34	-4.45	17.55	30.00
	1745.0	132322	V	17.62	9.41	-4.48	22.56	30.00
			H	11.11	9.41	-4.48	16.05	30.00
1772.5	132597	V	16.46	9.5	-4.51	21.46	30.00	
		H	11.49	9.5	-4.51	16.49	30.00	
LTE BAND 66 BW: 15M 16QAM RB: 1,74	1717.5	132047	V	19.37	9.37	-4.47	24.28	30.00
			H	13.86	9.37	-4.46	18.76	30.00
	1745.0	132322	V	18.9	9.46	-4.49	23.87	30.00
			H	13.14	9.46	-4.49	18.1	30.00
1772.5	132597	V	17.26	9.54	-4.52	22.28	30.00	
		H	9.91	9.54	-4.53	14.93	30.00	

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
LTE BAND 66 BW: 20M QPSK RB: 1,0	1720.0	132072	V	17.9	9.33	-4.45	22.78	30.00
			H	13.17	9.34	-4.45	18.05	30.00
	1745.0	132322	V	18.02	9.41	-4.48	22.95	30.00
			H	11.6	9.41	-4.48	16.53	30.00
	1770.0	132572	V	17.28	9.49	-4.5	22.26	30.00
H			12.79	9.49	-4.5	17.77	30.00	
LTE BAND 66 BW: 20M QPSK RB: 1,99	1720.0	132072	V	18.6	9.38	-4.47	23.51	30.00
			H	12.51	9.38	-4.47	17.43	30.00
	1745.0	132322	V	17.9	9.46	-4.5	22.87	30.00
			H	12.4	9.47	-4.5	17.37	30.00
	1770.0	132572	V	17.57	9.54	-4.52	22.59	30.00
			H	10.2	9.54	-4.52	15.21	30.00
LTE BAND 66 BW: 20M 16QAM RB: 1,0	1720.0	132072	V	17.38	9.34	-4.45	22.27	30.00
			H	12.67	9.34	-4.45	17.56	30.00
	1745.0	132322	V	17.48	9.41	-4.48	22.4	30.00
			H	10.98	9.41	-4.48	15.91	30.00
	1770.0	132572	V	16.77	9.49	-4.5	21.75	30.00
			H	12.08	9.49	-4.5	17.06	30.00
LTE BAND 66 BW: 15M 16QAM RB: 1,99	1720.0	132072	V	18.1	9.38	-4.47	23.01	30.00
			H	12.05	9.38	-4.47	16.96	30.00
	1745.0	132322	V	18.12	9.46	-4.49	23.09	30.00
			H	12.59	9.46	-4.5	17.56	30.00
	1770.0	132572	V	17.35	9.54	-4.52	22.36	30.00
			H	9.93	9.54	-4.52	14.95	30.00

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
LTE BAND 12 BW: 10M QPSK RB: 1,0	704.0	23060	V	20.18	3.66	-1.92	21.93	34.77
			H	17.76	3.66	-1.93	19.49	34.77
	707.5	23095	V	20.52	3.67	-2.08	22.11	34.77
			H	17.85	3.65	-1.82	19.68	34.77
	711.0	23130	V	20.96	3.65	-1.81	22.81	34.77
			H	18.27	3.65	-1.8	20.13	34.77
LTE BAND 12 BW: 10M QPSK RB: 1,49	704.0	23060	V	21.1	3.66	-1.87	22.89	34.77
			H	18.41	3.66	-1.86	20.21	34.77
	707.5	23095	V	20.21	3.64	-2.08	21.77	34.77
			H	17.33	3.64	-2.09	18.88	34.77
	711.0	23130	V	21.69	3.62	-2.35	22.96	34.77
			H	18.74	3.62	-2.35	20.01	34.77
LTE BAND 12 BW: 10M 16QAM RB: 1,0	704.0	23060	V	20.95	3.66	-1.93	22.69	34.77
			H	18.45	3.66	-1.92	20.19	34.77
	707.5	23095	V	20.58	3.67	-2.08	22.17	34.77
			H	17.76	3.66	-1.82	19.6	34.77
	711.0	23130	V	21.36	3.65	-1.81	23.2	34.77
			H	18.63	3.65	-1.8	20.48	34.77
LTE BAND 12 BW: 10M 16QAM RB: 1,49	704.0	23060	V	21.68	3.65	-1.94	23.39	34.77
			H	18.48	3.65	-1.87	20.26	34.77
	707.5	23095	V	20.28	3.63	-2.12	21.79	34.77
			H	17.25	3.63	-2.14	18.74	34.77
	711.0	23130	V	21.99	3.62	-2.34	23.27	34.77
			H	19.03	3.62	-2.34	20.31	34.77

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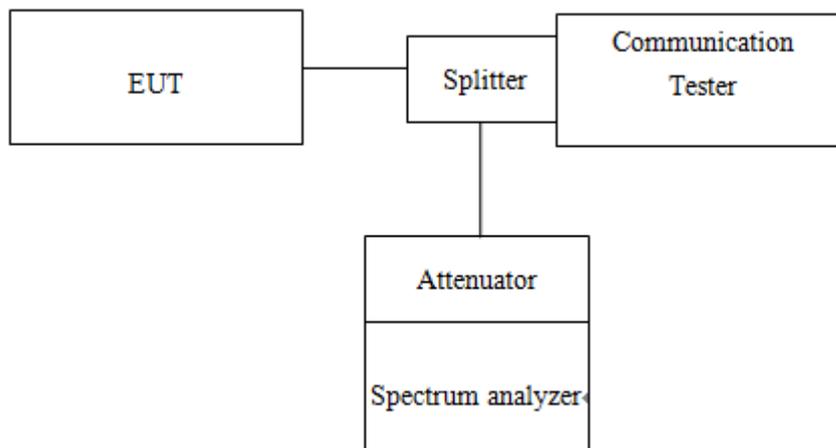
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8. OCCUPIED BANDWIDTH MEASUREMENT

8.1. Standard Applicable

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

8.2. Test Set-up



8.3. Measurement Procedure

99% &26dB Bandwidth with detector peak

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

99% Bandwidth with detector sample

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% ~ 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% ~ 5%, VBW= 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

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8.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018
Communication Tester	Anritsu	MT8820C	6201107337	05/25/2017	05/24/2018
Coaxial Cable 30cm	WOKEN	00100A1F1A 195C	RF01	12/12/2016	12/11/2017
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/13/2017	06/12/2018
DC Block	PASTERNAK	PE8210	RF29	12/12/2016	12/11/2017
Splitter	RF-LAMBAD	RFLT2W1G1 8G	RF35	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018

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8.5. Measurement Result

Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA II	HSDPA II	HSUPA II	WCDMA II	HSDPA II	HSUPA II
1852.40	9262	4.0674	4.0724	4.0619	4.5920	4.6050	4.5950
1880.00	9400	4.0573	4.0560	4.0552	4.5820	4.5910	4.5690
1907.60	9538	4.0629	4.0763	4.0597	4.5940	4.6020	4.5850

Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA IV	HSDPA IV	HSUPA IV	WCDMA IV	HSDPA IV	HSUPA IV
1712.40	1312	4.0662	4.0716	4.0468	4.5860	4.5700	4.5790
1732.60	1413	4.0605	4.0621	4.0664	4.5810	4.6090	4.5970
1752.60	1513	4.0618	4.0536	4.0662	4.5960	4.5840	4.5790

Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA V	HSDPA V	HSUPA V	WCDMA V	HSDPA V	HSUPA V
826.40	4132	4.0447	4.0601	4.0655	4.5850	4.5840	4.6120
836.60	4183	4.0622	4.0701	4.0623	4.5980	4.6050	4.5830
846.60	4233	4.0724	4.0797	4.0696	4.6180	4.5980	4.6250

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LTE BAND 2 Channel bandwidth: 1.4MHz						LTE BAND 2 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
1850.7	18607	1.1037	1.1162	1.3245	1.3224	1851.5	18615	2.7150	2.7290	3.0397	3.0556
1880.0	18900	1.1090	1.1180	1.3166	1.3255	1880.0	18900	2.7267	2.7126	3.0459	3.0394
1909.3	19193	1.1089	1.1112	1.3273	1.3303	1908.5	19185	2.7305	2.7108	3.0705	3.0333
LTE BAND 2 Channel bandwidth: 5MHz						LTE BAND 2 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
1852.5	18625	4.5148	4.5102	5.0637	5.0265	1855.0	18650	9.0349	9.0432	10.383	10.463
1880.0	18900	4.5216	4.5407	5.1160	5.0910	1880.0	18900	9.0966	9.0693	10.481	10.529
1907.5	19175	4.5165	4.5171	5.0950	5.0448	1905.0	19150	9.0337	9.0288	10.381	10.361
LTE BAND 2 Channel bandwidth: 15MHz						LTE BAND 2 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
1857.5	18675	13.541	13.521	15.558	15.575	1860.0	18700	17.953	17.971	19.763	20.088
1880.0	18900	13.530	13.525	15.267	15.495	1880.0	18900	18.067	17.977	20.197	20.220
1902.5	19125	13.484	13.505	15.649	15.689	1900.0	19100	17.896	17.897	19.783	19.730
LTE BAND 4 Channel bandwidth: 1.4MHz						LTE BAND 4 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
1710.7	19957	1.1087	1.1146	1.3254	1.3179	1711.5	19965	2.7204	2.7126	3.0554	3.0449
1732.5	20175	1.1184	1.1100	1.3132	1.3125	1732.5	20175	2.7305	2.7194	3.0534	3.0317
1754.3	20393	1.1078	1.1140	1.3203	1.3267	1753.5	20385	2.7269	2.7168	3.0677	3.0283
LTE BAND 4 Channel bandwidth: 5MHz						LTE BAND 4 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
1712.5	19957	4.5130	4.5137	4.9853	5.0348	1715.0	20000	9.0726	9.0395	10.406	10.486
1732.5	20175	4.5220	4.5224	5.0530	5.1142	1732.5	20175	9.0548	9.0634	10.606	10.489
1752.5	20375	4.5214	4.5183	5.0516	5.0965	1750.0	20350	9.0258	9.0317	10.441	10.326
LTE BAND 4 Channel bandwidth: 15MHz						LTE BAND 4 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
1717.5	20025	13.464	13.496	15.499	15.265	1720.0	20050	17.981	17.961	19.888	19.968
1732.5	20175	13.512	13.544	15.618	15.867	1732.5	20175	18.046	17.984	20.112	20.228
1747.5	20325	13.512	13.488	15.650	15.439	1745.0	20300	17.913	17.949	19.806	19.717

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LTE BAND 5 Channel bandwidth: 1.4MHz						LTE BAND 5 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
824.7	20407	1.1093	1.1251	1.3032	1.3302	825.5	20415	2.7213	2.7041	3.0627	3.0294
836.5	20525	1.1088	1.1095	1.3209	1.3314	836.5	20525	2.7189	2.7263	3.0474	3.0637
848.3	20643	1.1101	1.1141	1.3214	1.3220	847.5	20635	2.7183	2.7158	3.0350	3.0531
LTE BAND 5 Channel bandwidth: 5MHz						LTE BAND 5 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
826.5	20425	4.5163	4.5170	5.0757	5.1013	829.0	20450	9.0344	9.0409	10.502	10.396
836.5	20525	4.5269	4.5193	5.0350	5.0531	836.5	20525	9.0824	9.0967	10.576	10.594
846.5	20625	4.5315	4.5048	5.0040	4.9759	844.0	20600	8.9727	8.9939	10.443	10.479
LTE BAND 7 Channel bandwidth: 5MHz						LTE BAND 7 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
2502.5	20775	4.5292	4.5263	5.0626	5.0362	2505.0	20800	9.0391	9.0509	10.502	10.489
2535.0	21100	4.5192	4.5123	5.1034	5.1251	2535.0	21100	9.0312	9.0622	10.507	10.435
2567.5	21425	4.5182	4.5115	5.0964	5.0696	2565.0	21400	9.0374	9.0181	10.429	10.570
LTE BAND 7 Channel bandwidth: 15MHz						LTE BAND 7 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
2507.5	20825	13.514	13.490	15.603	15.860	2510.0	20850	18.028	18.018	19.897	19.905
2535.0	21100	13.517	13.538	15.259	15.748	2535.0	21100	17.980	18.032	20.279	20.075
2562.5	21375	13.515	13.577	15.627	15.699	2560.0	21350	18.000	18.009	19.811	19.990
LTE BAND 12 Channel bandwidth: 1.4MHz						LTE BAND 12 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
699.7	23017	1.1061	1.1166	1.3240	1.3274	700.5	23025	2.7287	2.7173	3.0482	3.0487
707.5	23095	1.1108	1.1098	1.3146	1.3212	707.5	23095	2.7238	2.7338	3.0616	3.0509
715.3	23173	1.1083	1.1180	1.3190	1.3180	714.5	23165	2.7324	2.7187	3.0011	3.0306
LTE BAND 12 Channel bandwidth: 5MHz						LTE BAND 12 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
701.5	23035	4.5067	4.4963	5.0579	5.0117	704.0	23060	9.0112	9.0170	10.515	10.471
707.5	23095	4.5351	4.5122	5.1106	5.0411	707.5	23095	9.1340	9.0533	10.482	10.527
713.5	23155	4.4868	4.4945	4.9844	5.0523	711.0	23130	9.0342	9.0133	10.500	10.333

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LTE BAND 13 Channel bandwidth: 5MHz						LTE BAND 13 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
779.5	23205	4.5248	4.5224	5.0541	5.0574	782.0	23230	9.014	8.966	10.442	10.363
782.0	23230	4.4988	4.5058	5.0015	5.0152						
784.5	23255	4.5237	4.5109	5.0987	5.0881						
LTE BAND 17 Channel bandwidth: 5MHz						LTE BAND 17 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
706.5	23755	4.5181	4.5260	5.0751	5.0570	709.0	23780	9.0629	9.0573	10.536	10.581
710.0	23790	4.5078	4.5444	5.0305	5.0499	710.0	23790	9.0634	9.0588	10.488	10.380
713.5	23825	4.5114	4.5038	5.0321	4.9641	711.0	23780	9.0457	9.0209	10.395	10.289
LTE BAND 26 Channel bandwidth: 1.4MHz						LTE BAND 26 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
824.7	26797	1.1055	1.1184	1.3215	1.3274	825.5	26805	2.7298	2.7206	3.0552	3.0489
836.5	26915	1.1075	1.1138	1.3257	1.3216	836.5	26915	2.7143	2.7236	3.0515	3.0404
848.3	27033	1.1067	1.1178	1.3171	1.3263	847.5	27025	2.7309	2.7249	3.0457	3.0612
LTE BAND 26 Channel bandwidth: 5MHz						LTE BAND 26 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
826.5	26815	4.5121	4.5238	5.0565	4.8004	829.0	26840	9.0281	9.0472	10.394	10.378
836.5	26915	4.5107	4.5157	5.0438	5.0441	836.5	26915	9.0851	9.1413	10.526	10.545
846.5	27015	4.5238	4.5187	5.0146	5.0052	844.0	26990	8.9937	8.9715	10.372	10.370
LTE BAND 26 Channel bandwidth: 15MHz											
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)							
		QPSK	16QAM	QPSK	16QAM						
831.5	26865	13.535	13.571	15.567	15.495						
836.5	26915	13.591	13.650	15.833	16.309						
841.5	26965	13.450	13.409	15.021	15.357						

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LTE BAND 26 for part 90S Channel bandwidth: 1.4MHz						LTE BAND 26 for part 90S Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
814.7	26697	1.1069	1.1104	1.3172	1.3259	815.5	26705	2.7161	2.7169	3.0347	3.0300
819.0	26740	1.1010	1.1152	1.3130	1.3274	819.0	26740	2.7234	2.7096	3.0504	3.0386
823.3	26783	1.1141	1.1202	1.3135	1.3374	822.5	26775	2.7255	2.7213	3.0275	3.0384

LTE BAND 26 for part 90S Channel bandwidth: 5MHz						LTE BAND 26 for part 90S Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
816.5	26715	4.5275	4.5242	5.0943	5.0593	819.0	26740	9.1275	9.0755	10.653	10.480
819.0	26740	4.5207	4.5225	5.0635	5.0564						
821.5	26765	4.5110	4.5166	4.9809	5.0260						

LTE BAND 30 Channel bandwidth: 5MHz						LTE BAND 30 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	16QAM	QPSK
2307.5	27685	4.5161	4.5089	5.0440	5.3295	2310.0	27710	9.0000	9.0307	10.4932	10.5226
2310.0	27710	4.5285	4.5041	5.0484	5.0470						
2312.5	27735	4.5228	4.5025	5.0212	5.0514						

LTE BAND 38 Channel bandwidth: 5MHz						LTE BAND 38 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
2572.5	37775	4.5136	4.5096	4.9407	5.4284	2575.0	37800	9.0349	9.0302	10.422	10.457
2595.0	38000	4.4832	4.5134	4.9750	5.0956	2595.0	38000	9.0401	9.0407	10.451	10.466
2617.5	38225	4.5088	4.5115	5.0183	5.2873	2615.0	38200	9.0288	9.0191	10.411	10.313

LTE BAND 38 Channel bandwidth: 15MHz						LTE BAND 38 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
2577.5	37825	13.516	13.535	15.696	16.922	2580.0	37850	17.959	18.028	19.497	19.783
2595.0	38000	13.490	13.484	15.566	15.387	2595.0	38000	17.951	17.986	19.702	19.895
2612.5	38175	13.506	13.514	15.334	15.302	2610.0	38150	17.987	17.981	19.355	20.359

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LTE BAND 41 Channel bandwidth: 5MHz						LTE BAND 41 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
2498.5	39675	4.5151	4.5093	5.0009	5.1245	2501.0	39700	9.0230	9.0156	10.676	10.643
2593.0	40620	4.5229	4.5138	5.0153	5.0549	2593.0	40620	9.0318	9.0476	10.620	10.484
2687.5	41565	4.5394	4.5184	5.1091	5.6732	2685.0	41540	9.0238	9.0467	10.486	10.383

LTE BAND 41 Channel bandwidth: 15MHz						LTE BAND 41 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
2503.5	39725	13.529	13.535	15.700	15.607	2506.0	39750	17.985	17.940	19.965	19.740
2593.0	40620	13.516	13.459	15.249	15.486	2593.0	40620	17.958	17.947	20.042	19.594
2682.5	41515	13.512	13.506	16.302	15.225	2680.0	41490	17.954	17.943	20.520	19.900

LTE BAND 66 Channel bandwidth: 1.4MHz						LTE BAND 66 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
1710.7	131979	1.1154	1.1205	1.3338	1.3471	1711.5	131987	2.7175	2.7386	3.0849	3.0460
1745.0	132322	1.1095	1.1170	1.3194	1.3276	1745.0	132322	2.7283	2.7205	3.0501	3.0377
1779.3	132665	1.1234	1.1280	1.3342	1.3272	1778.5	132657	2.7189	2.7107	3.0579	3.0480

LTE BAND 66 Channel bandwidth: 5MHz						LTE BAND 66 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
1712.5	131997	4.5187	4.5338	5.0761	5.0270	1715.0	132022	9.0145	9.0782	10.4613	10.5449
1745.0	132322	4.5153	4.4998	5.0445	5.0650	1745.0	132322	9.0653	9.0333	10.5160	10.5565
1777.5	132647	4.5102	4.5036	5.0708	5.0381	1775.0	132622	9.0066	9.0322	10.4763	10.4799

LTE BAND 66 Channel bandwidth: 15MHz						LTE BAND 66 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)		Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM			QPSK	16QAM	QPSK	16QAM
1717.5	132047	13.4990	13.4790	15.4880	15.3470	1720.0	132072	18.0060	17.9850	19.8410	20.0930
1745.0	132322	13.4770	13.4820	15.2960	15.3320	1745.0	132322	17.9700	17.9650	20.0150	20.0310
1772.5	132597	13.4500	13.4790	15.2560	15.3300	1770.0	132572	17.9430	17.9650	19.8320	19.9300

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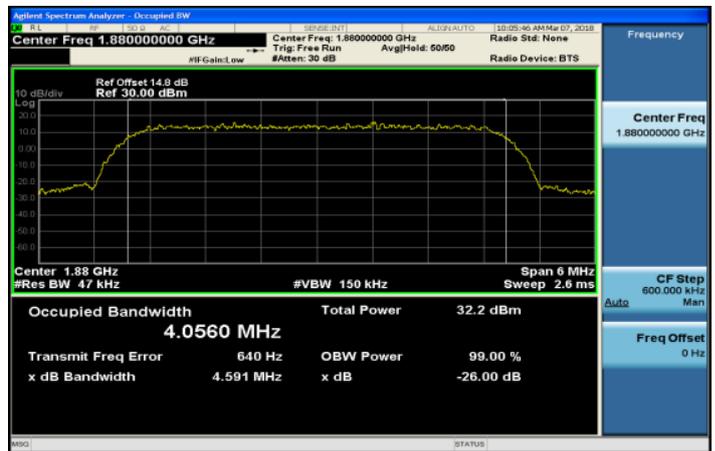
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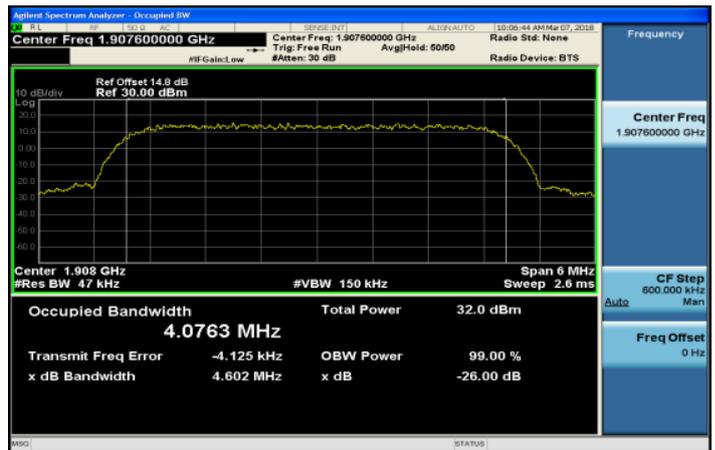
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HSDPA_B2_HighCH9538-1907.6



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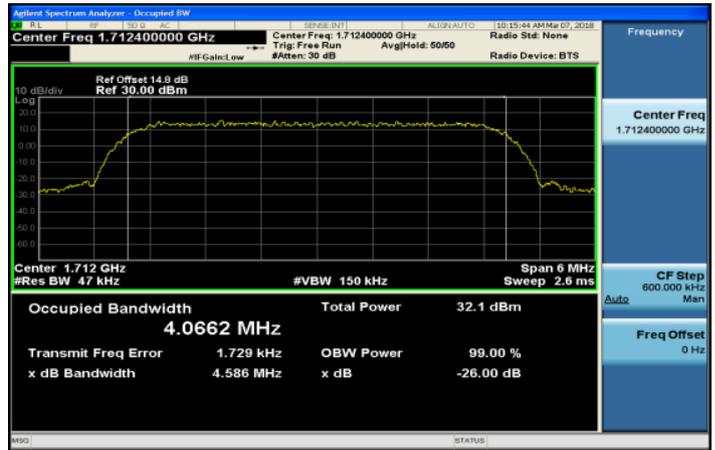
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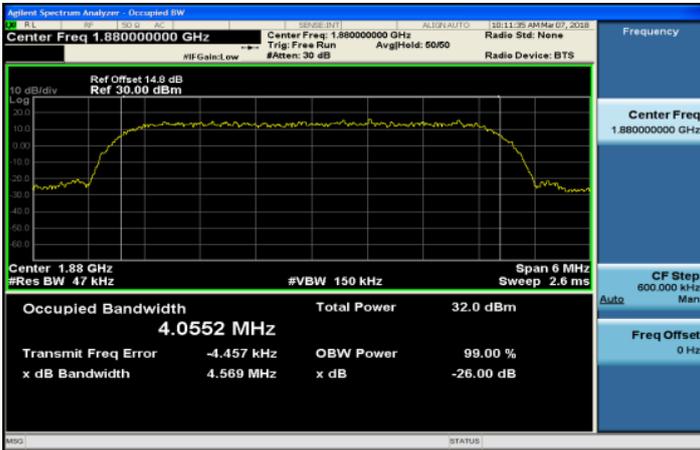
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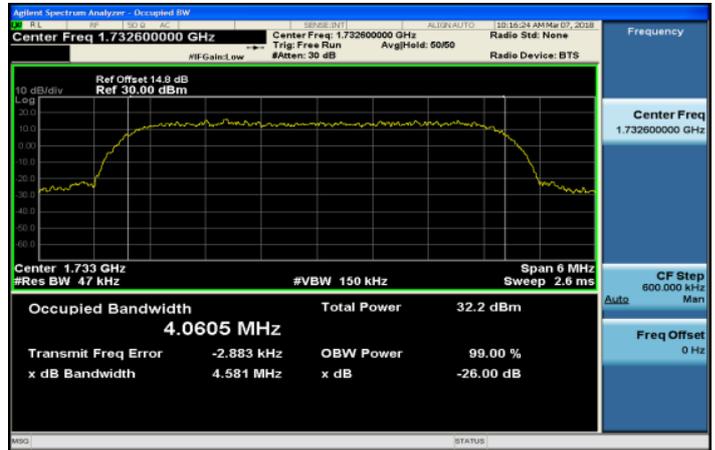
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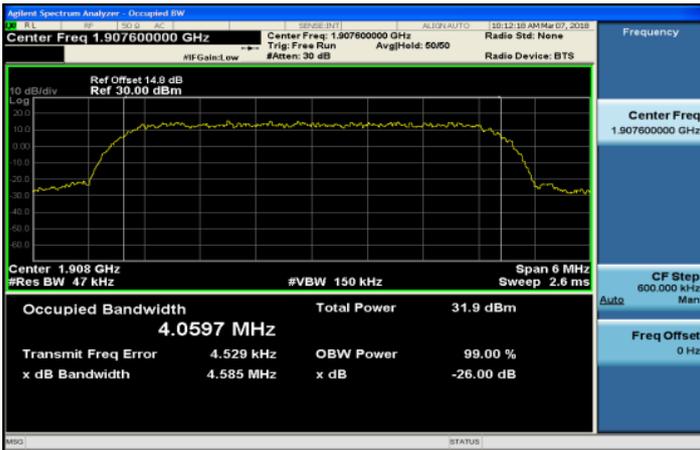
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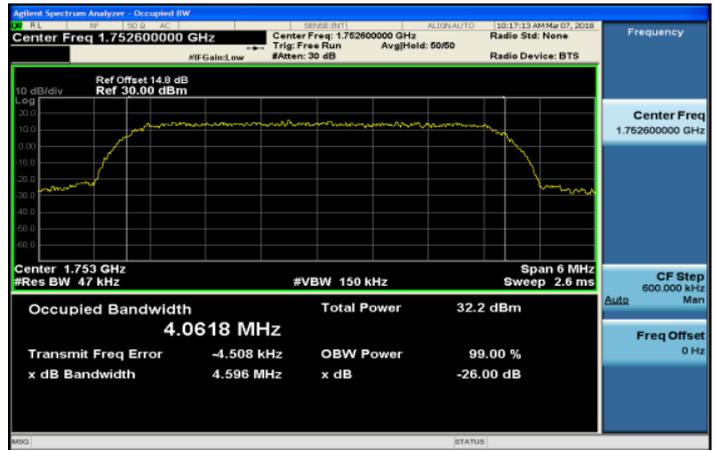
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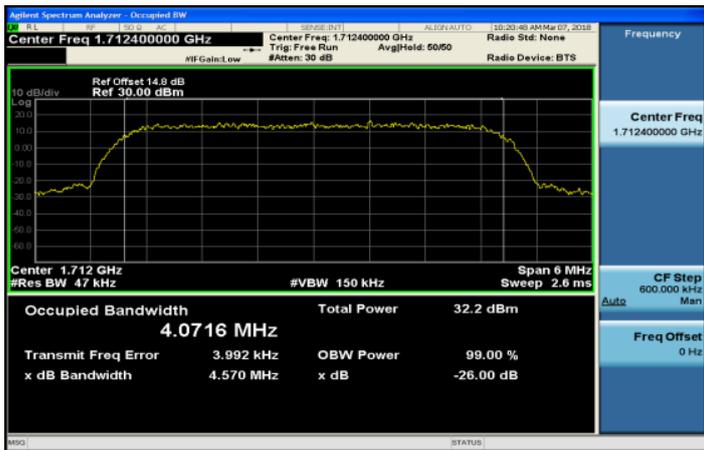


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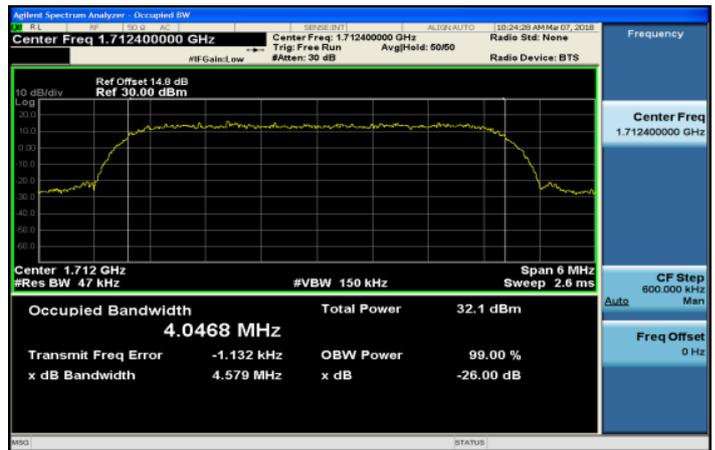
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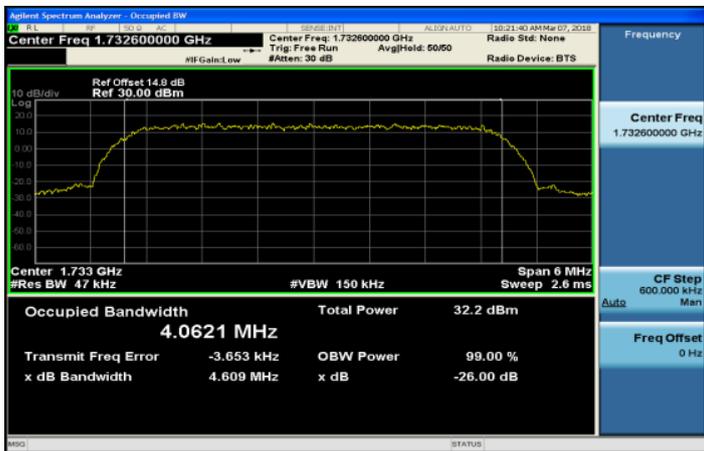
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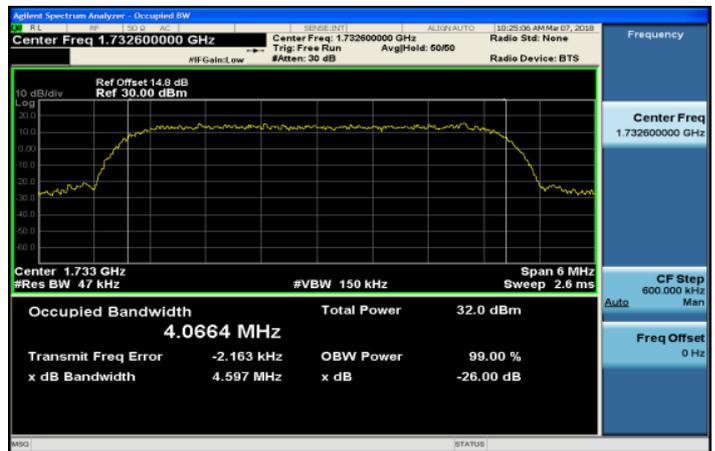
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HSUPA_B4_MidCH1413-1732.6



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HSUPA_B4_HighCH1513-1752.6



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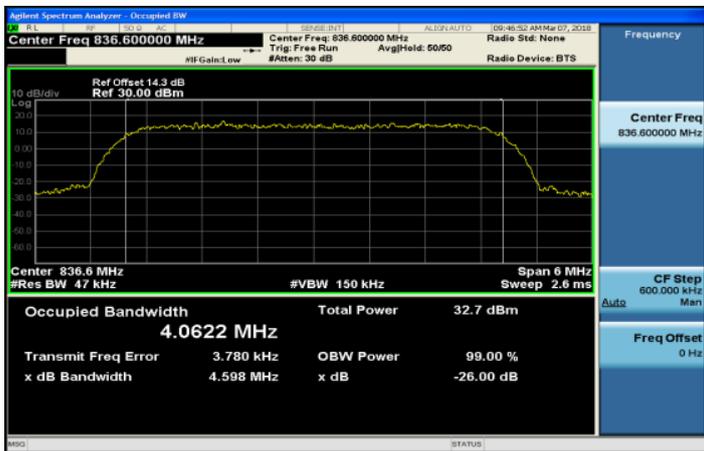
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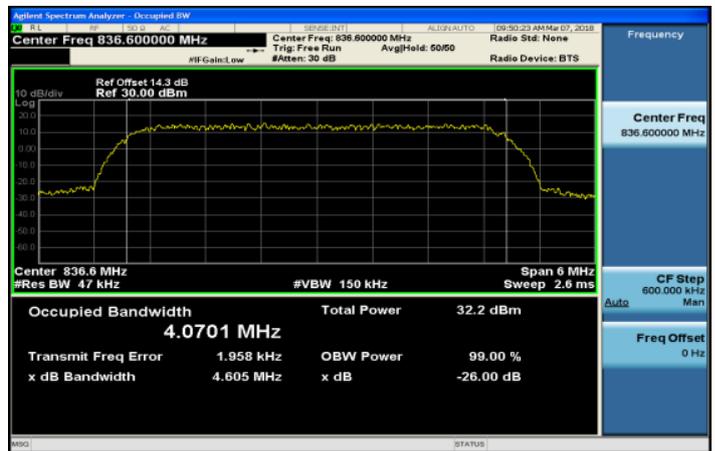
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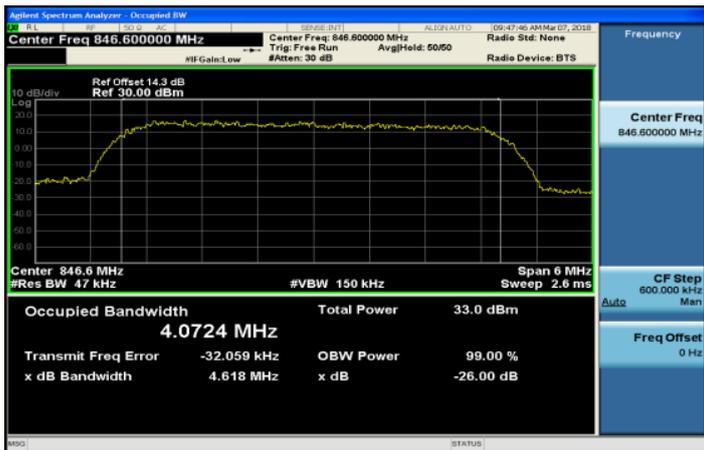
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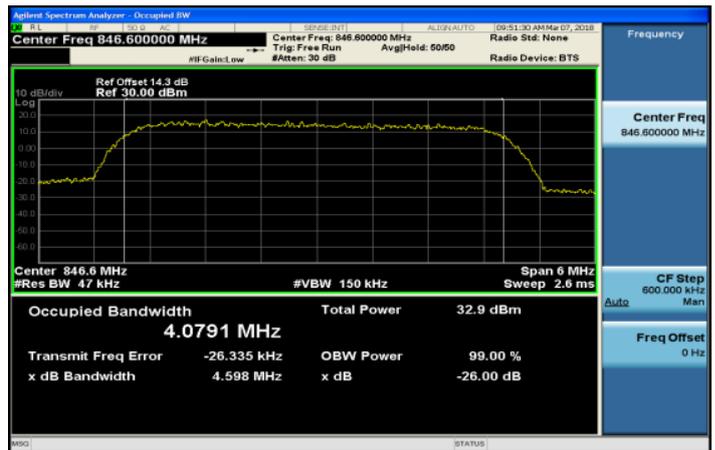
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WCDMA_B5_HighCH4233-846.6



HSDPA_B5_HighCH4233-846.6



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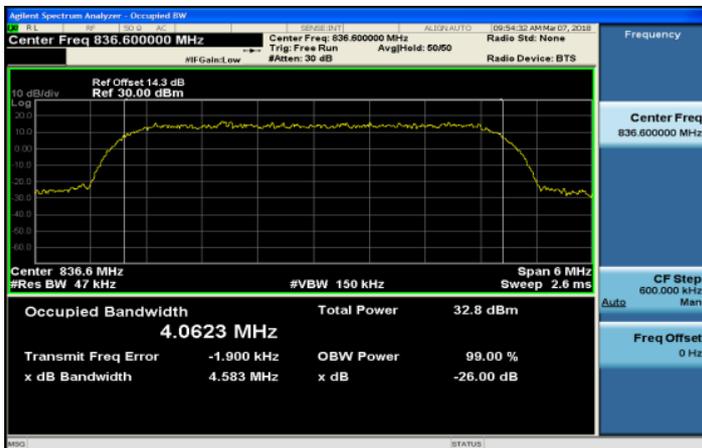
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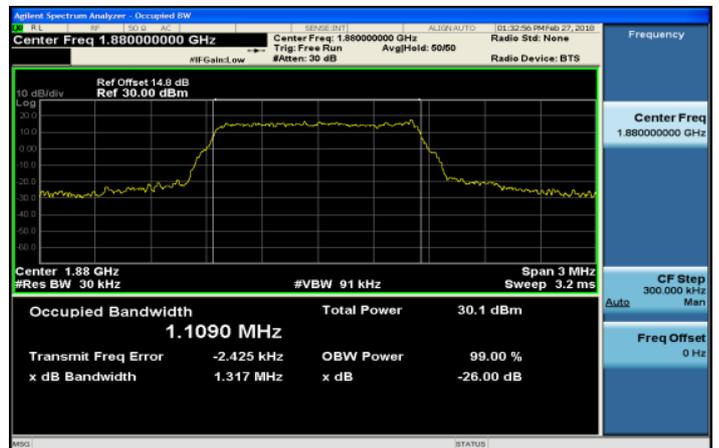
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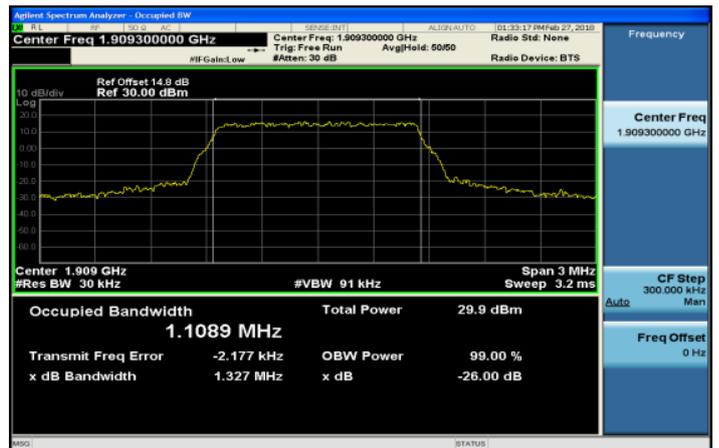
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HSUPA_B5_HighCH4233-846.6



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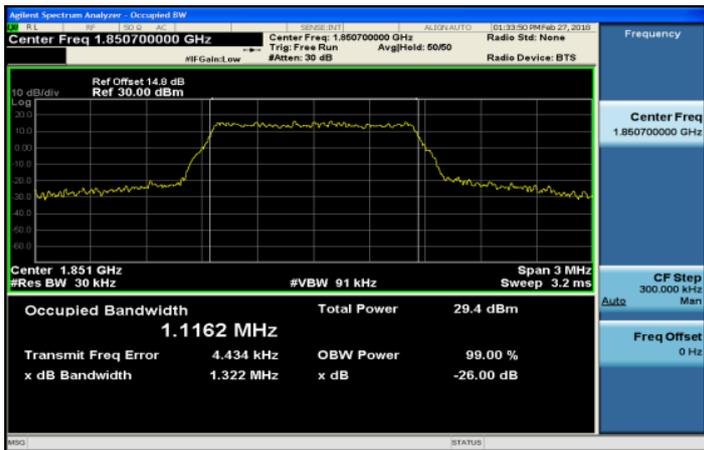


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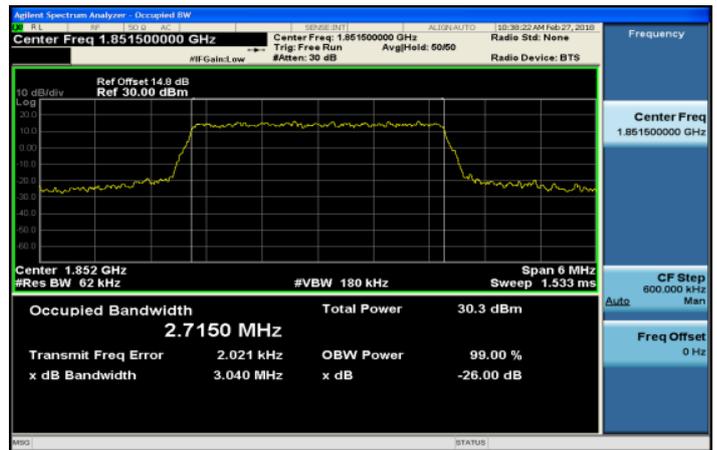
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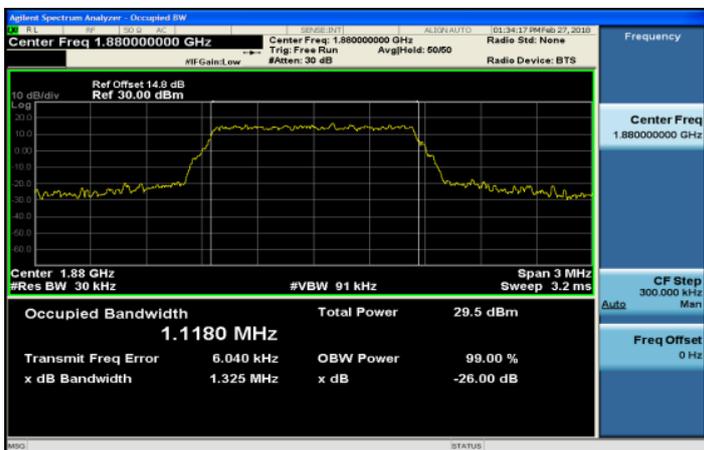
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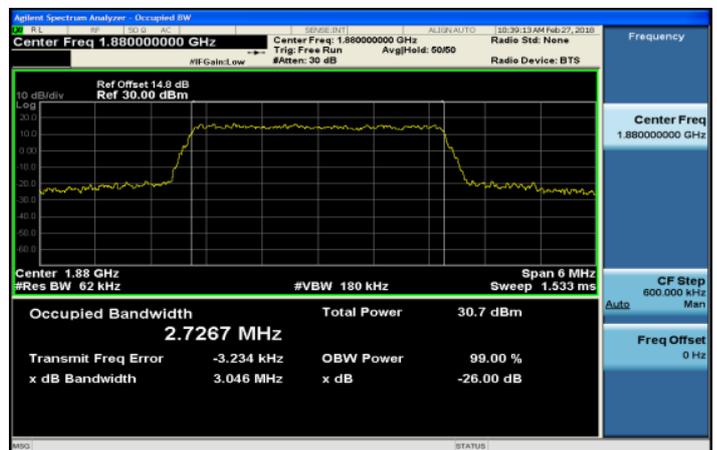
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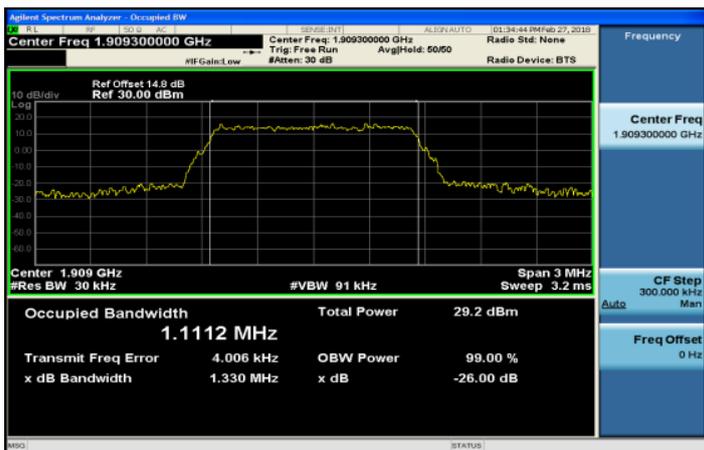
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Band2_3MHz_QPSK_15_0_MidCH18900-1880



Band2_1_4MHz_16QAM_6_0_HighCH19193-1909.3



Band2_3MHz_QPSK_15_0_HighCH19185-1908.5



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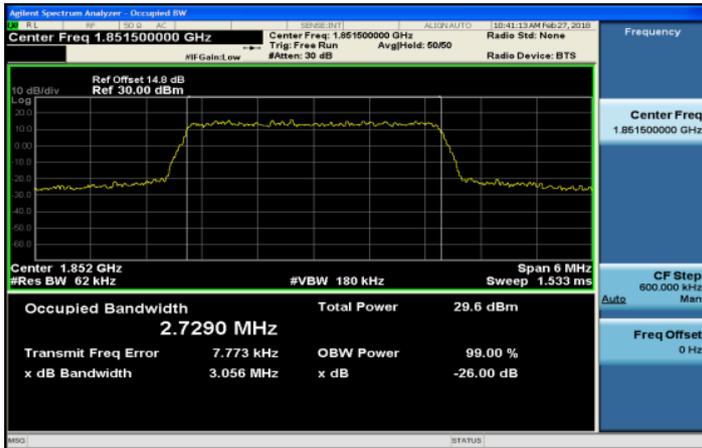
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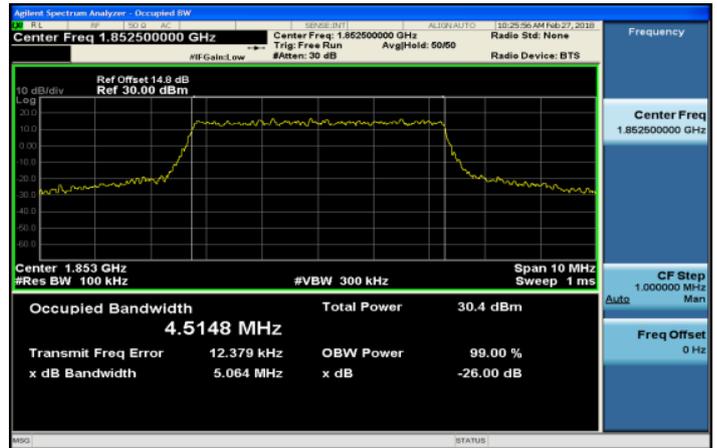
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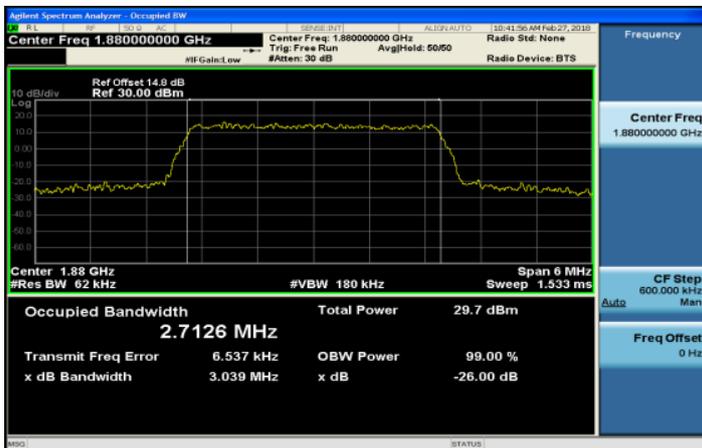
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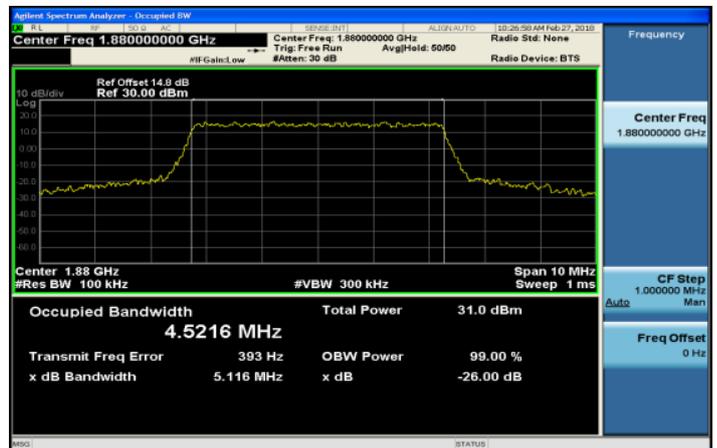
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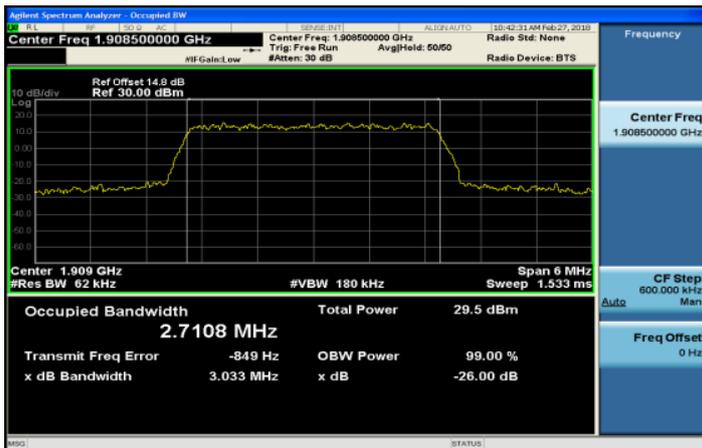
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Band2_5MHz_QPSK_25_0_MidCH18900-1880



Band2_3MHz_16QAM_15_0_HighCH19185-1908.5



Band2_5MHz_QPSK_25_0_HighCH19175-1907.5

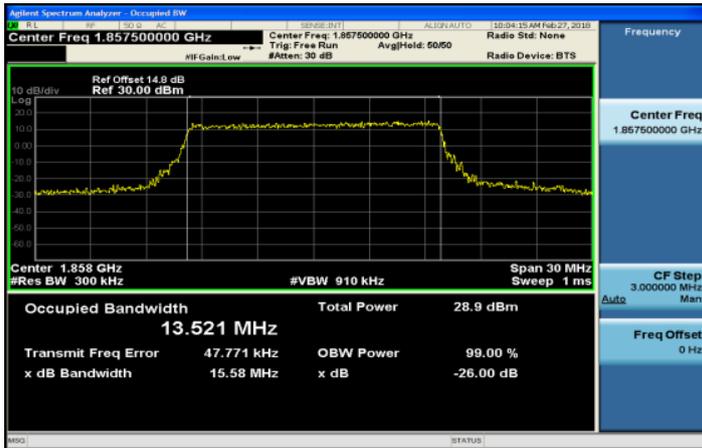


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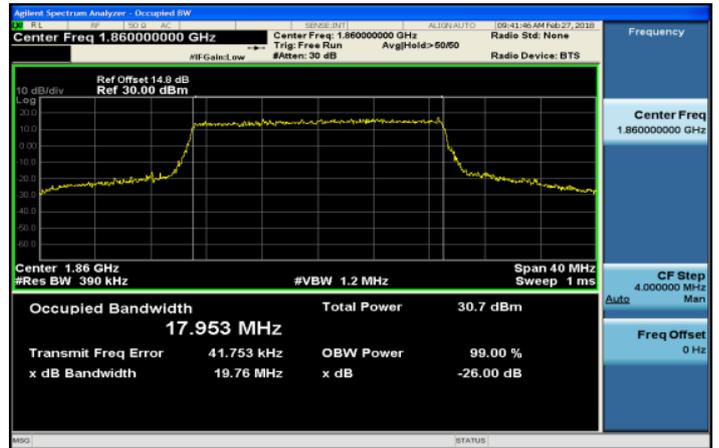
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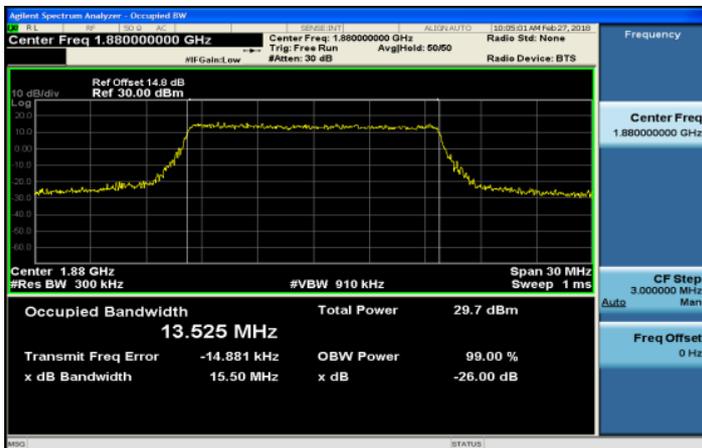
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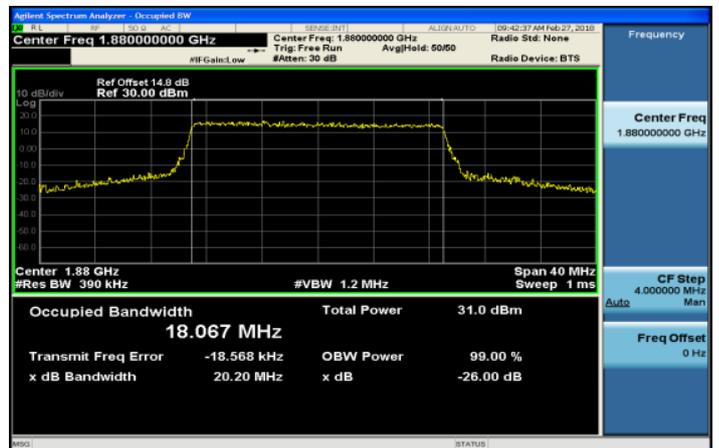
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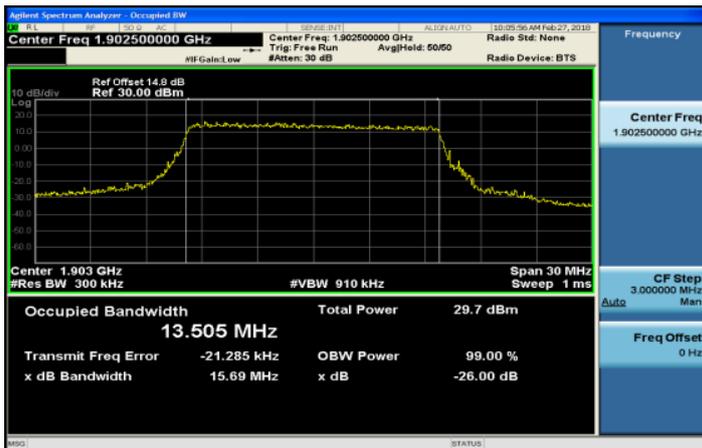
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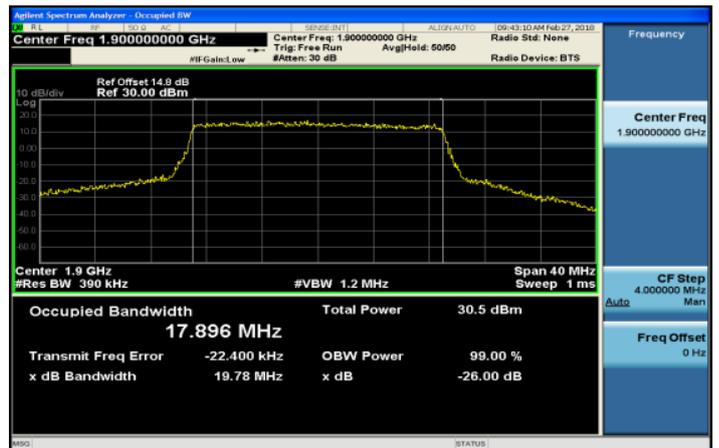
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Band2_15MHz_16QAM_75_0_HighCH19125-1902.5



Band2_20MHz_QPSK_100_0_HighCH19100-1900



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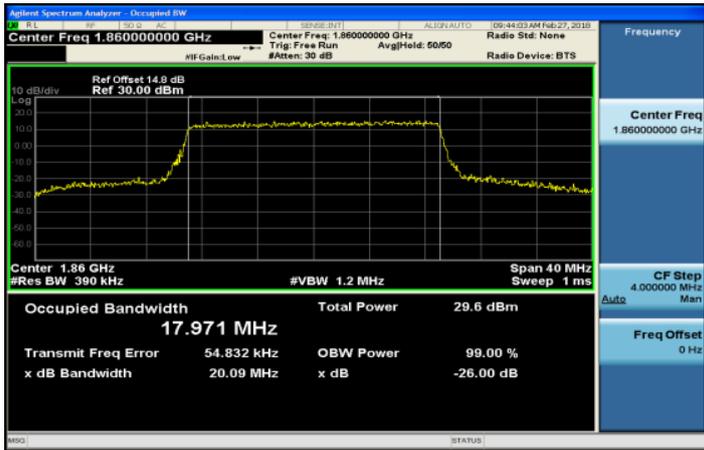
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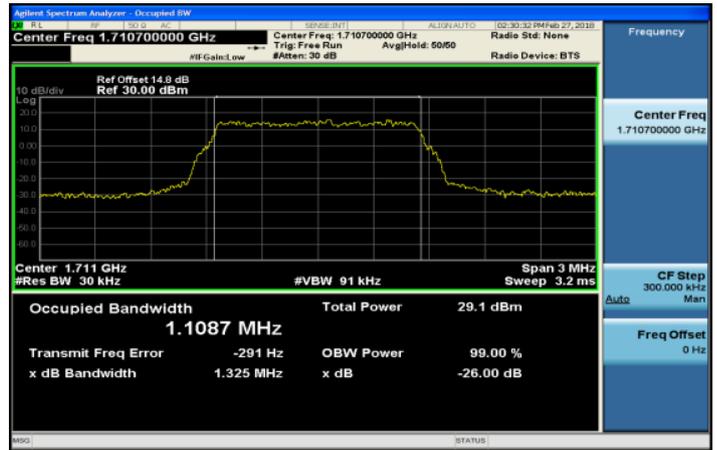
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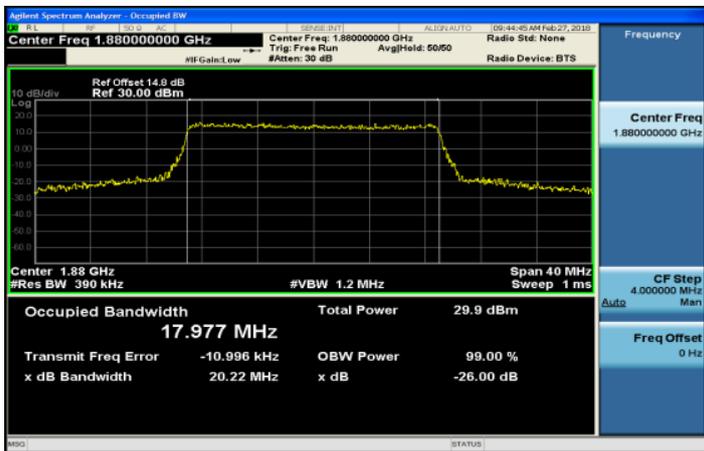
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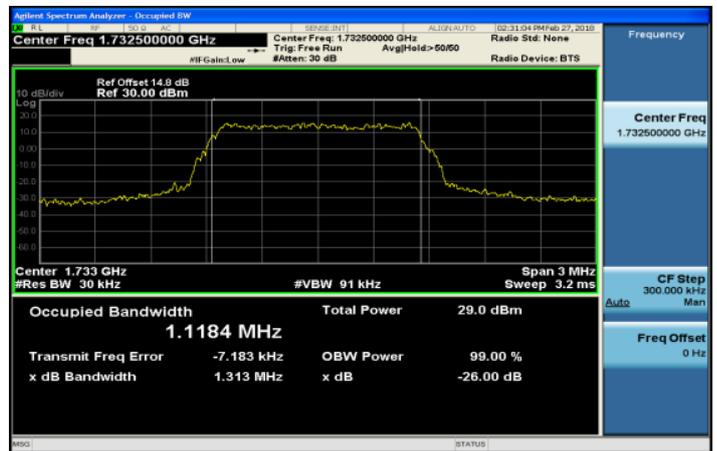
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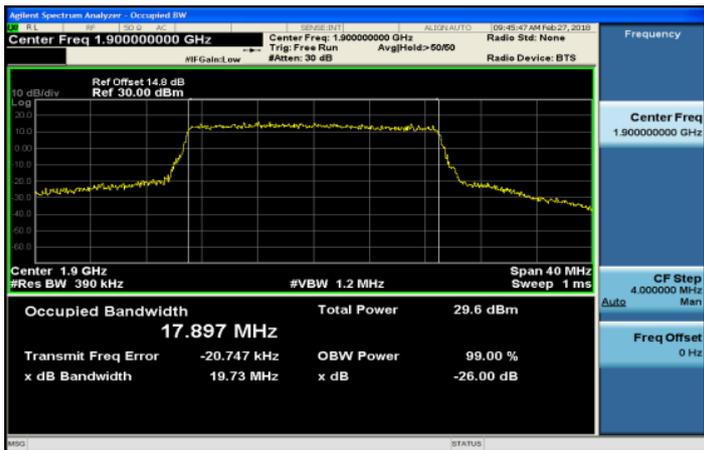
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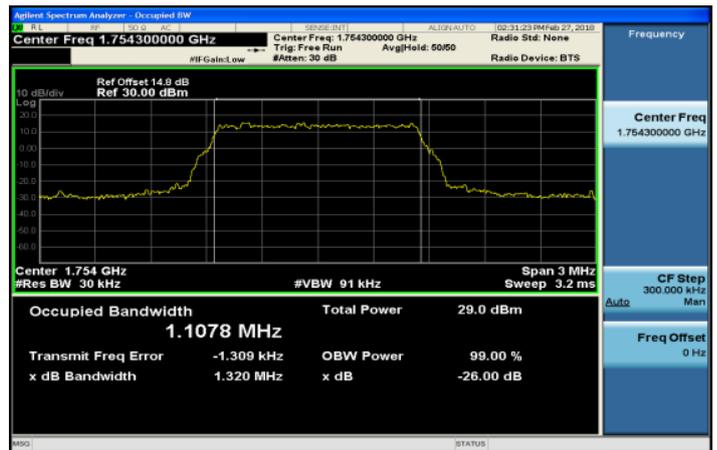
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Band2_20MHz_16QAM_100_0_HighCH19100-1900



Band4_1_4MHz_QPSK_6_0_HighCH20393-1754.3



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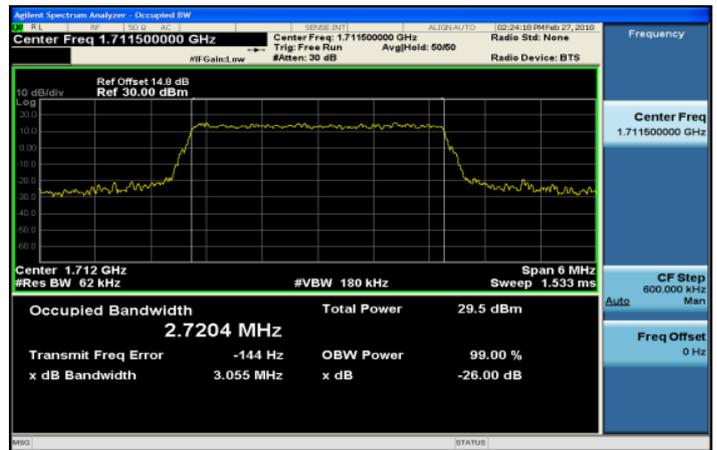
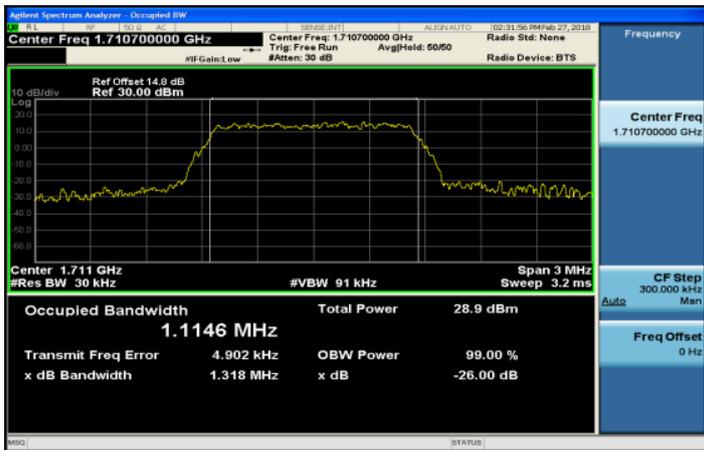
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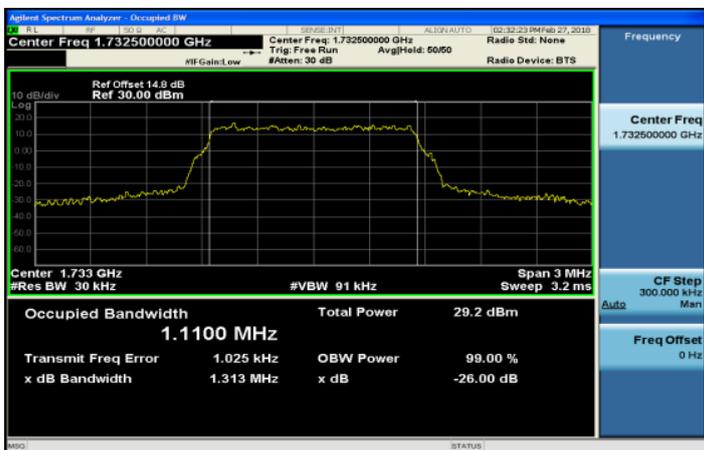
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Band4_3MHz_QPSK_15_0_LowCH19965-1711.5



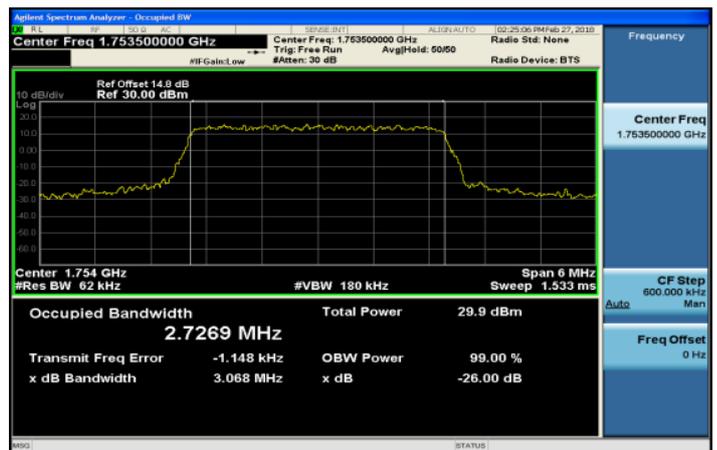
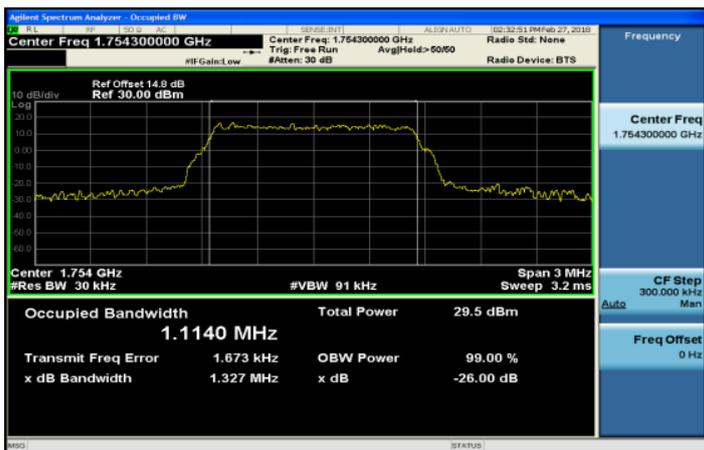
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Band4_3MHz_QPSK_15_0_MidCH20175-1732.5



Band4_1_4MHz_16QAM_6_0_HighCH20393-1754.3

Band4_3MHz_QPSK_15_0_HighCH20385-1753.5



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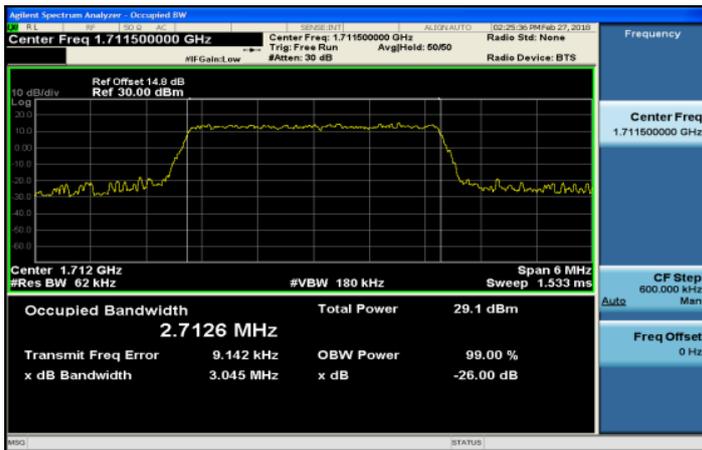
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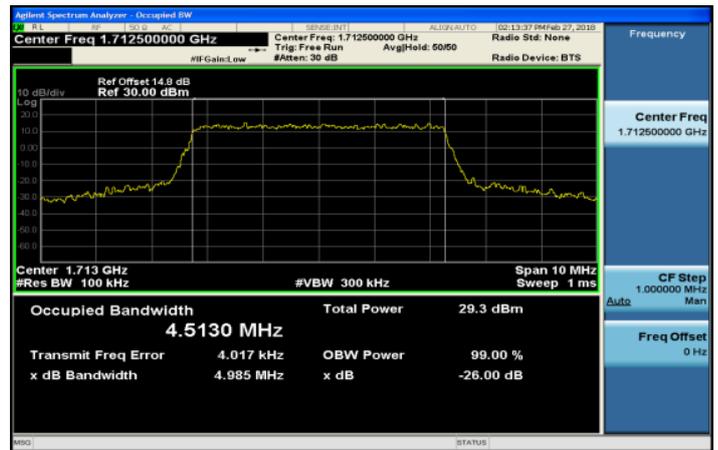
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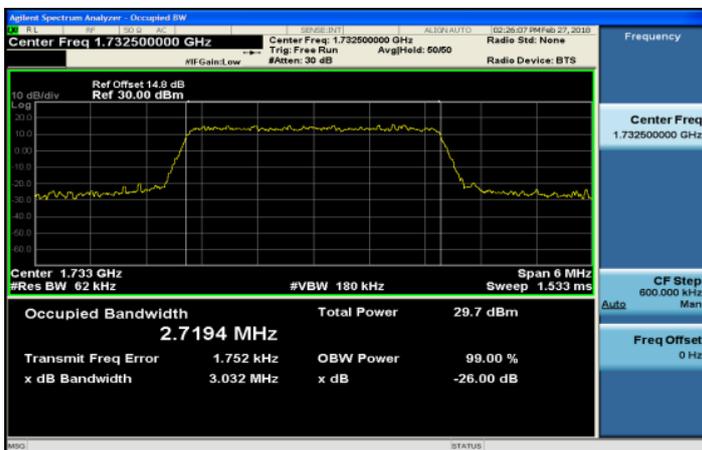
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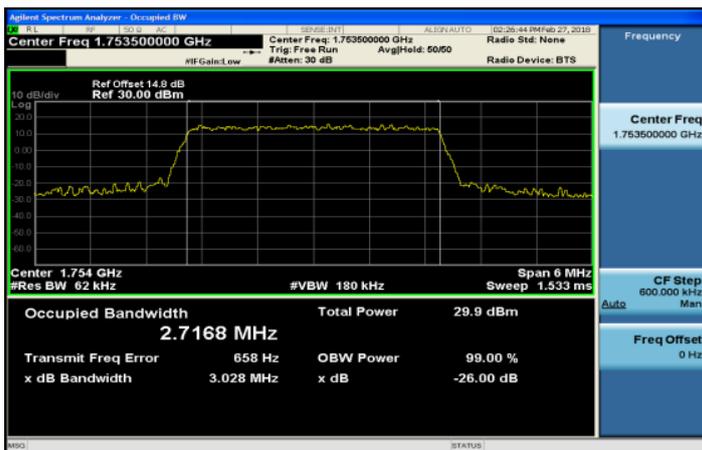
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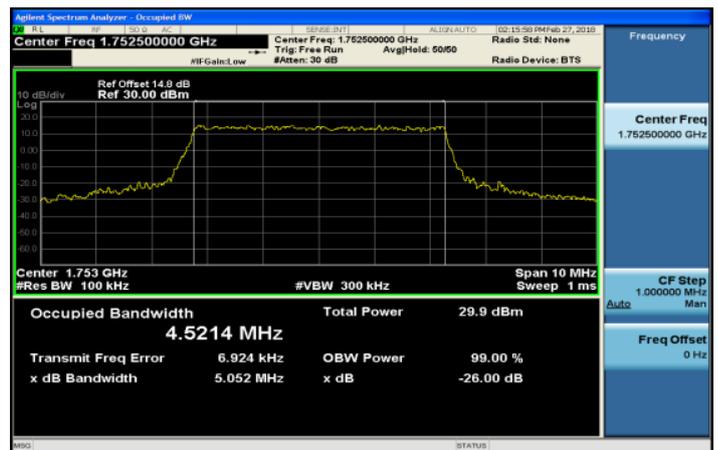
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Band4_5MHz_QPSK_25_0_HighCH20375-1752.5

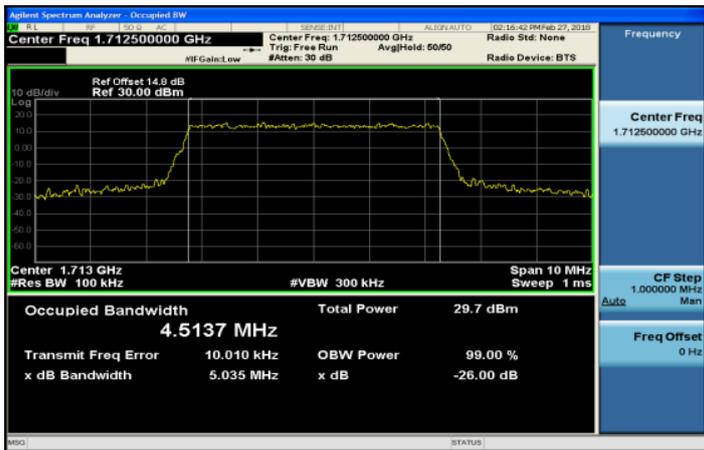


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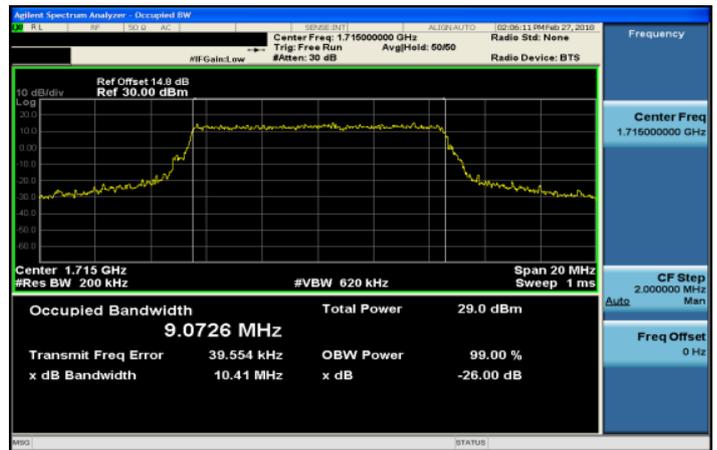
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Band4_10MHz_QPSK_50_0_LowCH20000-1715



Band4_5MHz_16QAM_25_0_MidCH20175-1732.5



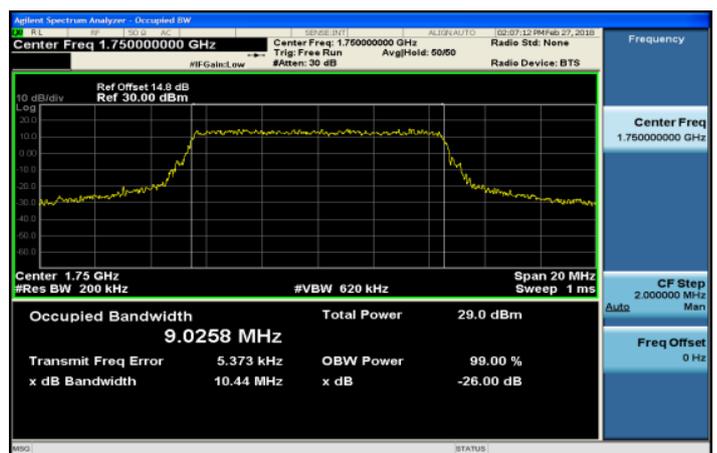
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Band4_5MHz_16QAM_25_0_HighCH20375-1752.5



Band4_10MHz_QPSK_50_0_HighCH20350-1750



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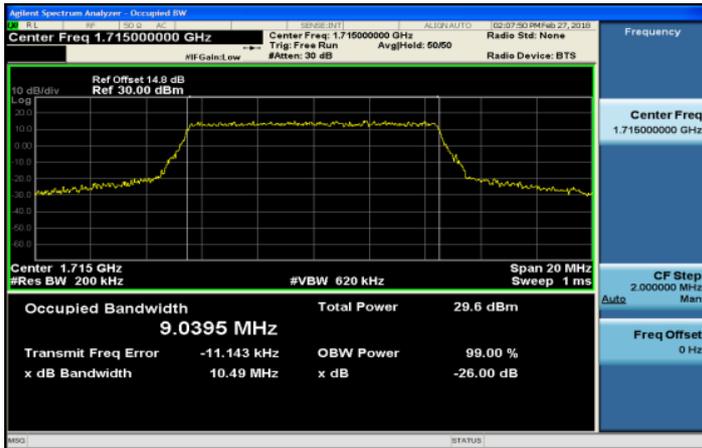
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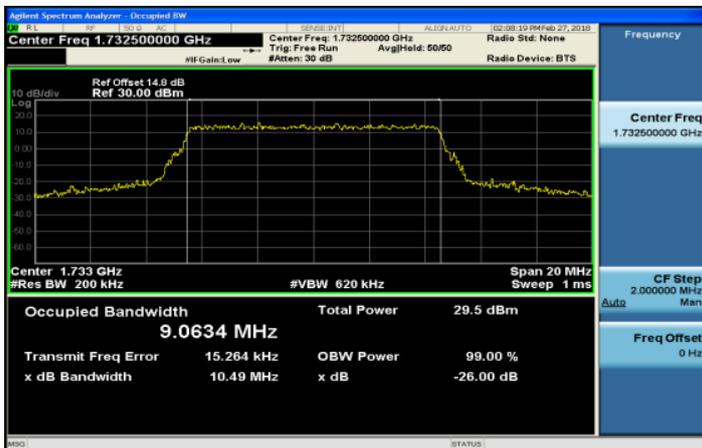
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Band4_15MHz_QPSK_75_0_LowCH20025-1717.5



Band4_10MHz_16QAM_50_0_MidCH20175-1732.5



Band4_15MHz_QPSK_75_0_MidCH20175-1732.5



Band4_10MHz_16QAM_50_0_HighCH20350-1750



Band4_15MHz_QPSK_75_0_HighCH20325-1747.5



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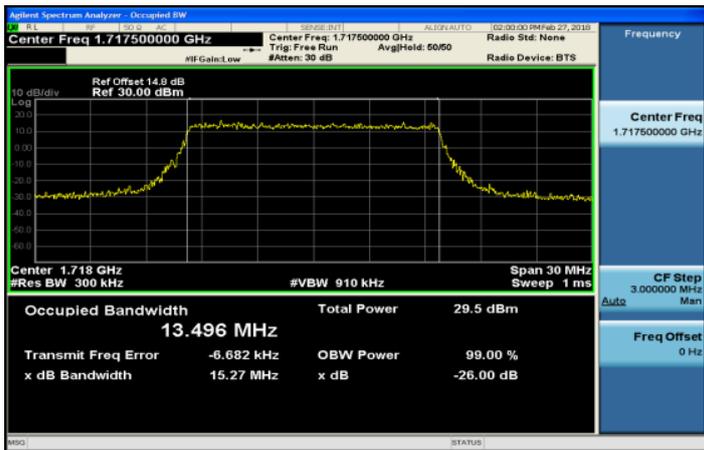
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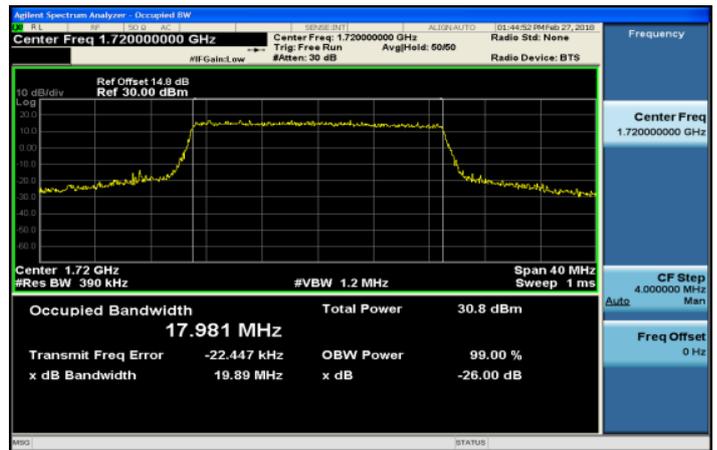
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Band4_15MHz_16QAM_75_0_LowCH20025-1717.5



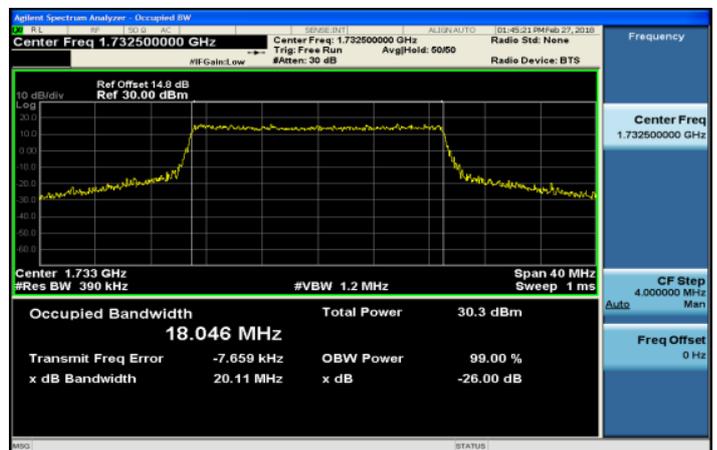
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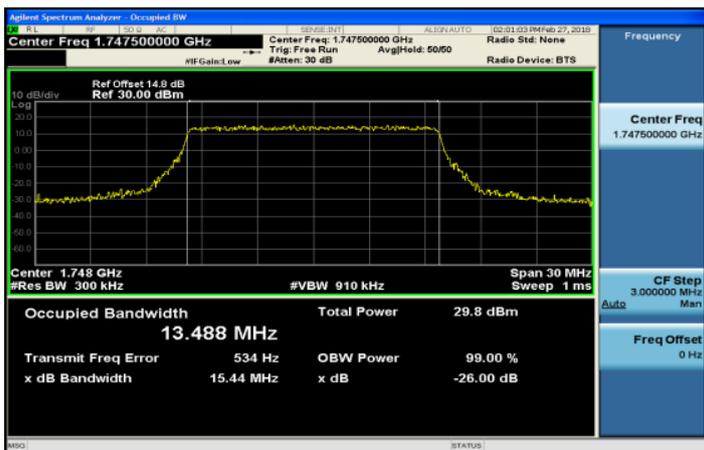
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Band4_20MHz_QPSK_100_0_MidCH20175-1732.5



Band4_15MHz_16QAM_75_0_HighCH20325-1747.5



Band4_20MHz_QPSK_100_0_HighCH20300-1745



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