

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 REQUIREMENT

OF

| | |
|--------------------------|--|
| Product Name: | Tablet |
| Brand Name: | HP |
| Model No.: | HSN-I06C |
| Model Difference: | N/A |
| FCC ID: | B94HNI06CAM |
| Report No.: | ER/2016/90027 |
| Issue Date: | Oct. 28, 2016 |
| FCC Rule Part: | 2 , 22H & 24E & 27B, C & L |
| Prepared for: | HP Inc. 3390 East Harmony Road Fort Collins, Colorado 80528 United States |
| Prepared by: | SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803 |

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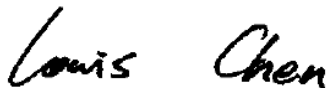
VERIFICATION OF COMPLIANCE

Applicant: HP Inc.
3390 East Harmony Road Fort Collins, Colorado 80528 United States
Product Name: Tablet
Brand Name: HP
Model No.: HSN-I06C
Model Difference: N/A
FCC ID: B94HNI06CAM
File Number: ER/2016/90027
Date of test: Sep. 09, 2016 ~ Oct. 06, 2016
Date of EUT Received: Sep. 09, 2016

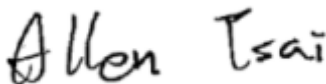
We hereby certify that:

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 TIA/EIA-603-D-2010 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.

Test By:**Date:**

Oct. 28, 2016

Louis Chen / Engineer**Prepared By:****Date:**

Oct. 28, 2016

Allen Tsai / Engineer**Approved By:****Date:**

Oct. 28, 2016

Jim Chang / Asst. Manager

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Revision History

| Report Number | Revision | Description | Issue Date |
|---------------|----------|------------------------------|---------------|
| ER/2016/90027 | Rev.00 | Initial creation of document | Oct. 28, 2016 |
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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

| | | |
|------------------------------|---|---|
| Product Name: | Tablet | |
| Brand Name: | HP | |
| Model No.: | HSN-I06C | |
| Model difference: | N/A | |
| Product SW/HW version: | N/A / N/A | |
| Radio SW/HW version: | N/A | |
| Test SW Version: | N/A | |
| RF power setting in TEST SW: | N/A | |
| WWAN Module: | Model No.: T77W595, Supplier: HON HAI PRECISION IND.CO., LTD. | |
| Power Supply: | 7.7Vdc from Rechargeable Li-polymer Battery or 5 V from AC/DC Adapter | |
| | Battery: | Model No.: HSTNN-DB7Q, Supplier: DYNAPACK ELECTRONIC TECHNOLOGY (SUZHOU) CO., LTD. |
| | Adapter: | 1. Model No.:TPA-CA06, Supplier: CHICONY POWER TECHNOLOGY (CHONGQING) CO.,LTD. 2. Model No.:TPN-AA03, Supplier: Acbel Electronic (Wuhan) Co., Ltd. 3. Model No.:TPN-DA07, Supplier:DELTA ELECTRONICS (JIANGSU) LTD. 4. Model No.:TPN-LA06, Supplier:LITE-ON TECHNOLOGY (CHANGZHOU)CO.,LTD. |

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WCDMA / LTE:

| Cellular Phone Standards Frequency Range and Power | Operating Frequency | | Rated Power |
|--|----------------------------|---------------------------|-------------|
| | GPRS 850 | 824.2 MHz– 848.8 MHz | 33dBm |
| | EDGE 850 | 824.2 MHz– 848.8 MHz | 27dBm |
| | GPRS 1900 | 1850.2MHz – 1909.8MHz | 30dBm |
| | EDGE 1900 | 1850.2MHz – 1909.8MHz | 26dBm |
| | WCDMA / HSPA+ Band II | 1852.4MHz – 1907.6MHz | 24dBm |
| | WCDMA / HSPA+ Band IV | 1712.4MHz – 1752.6MHz | 24dBm |
| | WCDMA / HSPA+ Band V | 826.4MHz - 846.6MHz | 24dBm |
| | CDMA2000 Cellular BC0 | 824.7MHz – 848.31MHz | 24dBm |
| | CDMA2000 PCS BC1 | 1851.25 MHz – 1908.75 MHz | 24dBm |
| | CDMA2000 EVDO Cellular BC0 | 824.7MHz – 848.31MHz | 24dBm |
| | CDMA2000 EVDO PCS BC1 | 1851.25 MHz – 1908.75 MHz | 24dBm |
| | LTE-Band 2 (1.4MHz) | 1850.7MHz– 1909.3MHz | 23dBm |
| | LTE-Band 2 (3MHz) | 1851.5MHz – 1908.5MHz | 23dBm |
| | LTE-Band 2 (5MHz) | 1852.5MHz – 1907.5MHz | 23dBm |
| | LTE-Band 2 (10MHz) | 1855.0MHz – 1905.0MHz | 23dBm |
| | LTE-Band 2 (15MHz) | 1857.5MHz – 1902.5MHz | 23dBm |
| | LTE-Band 2 (20MHz) | 1860.0MHz – 1900.0MHz | 23dBm |
| | LTE-Band 4 (1.4MHz) | 1710.7MHz– 1754.3MHz | 23dBm |
| | LTE-Band 4 (3MHz) | 1711.5MHz – 1753.5MHz | 23dBm |
| | LTE-Band 4 (5MHz) | 1712.5MHz – 1752.5MHz | 23dBm |
| | LTE-Band 4 (10MHz) | 1715MHz – 1750MHz | 23dBm |
| | LTE-Band 4 (15MHz) | 1717.5MHz – 1747.5MHz | 23dBm |
| | LTE-Band 4 (20MHz) | 1720MHz – 1745MHz | 23dBm |
| | LTE-Band 5 (1.4MHz) | 824.7MHz – 848.3MHz | 23dBm |
| | LTE-Band 5 (3MHz) | 825.5MHz – 847.5MHz | 23dBm |
| | LTE-Band 5 (5MHz) | 826.5MHz – 846.5MHz | 23dBm |
| | LTE-Band 5 (10MHz) | 829.0MHz – 844.0MHz | 23dBm |

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| Cellular Phone Standards Frequency Range and Power | Operating Frequency | | Rated Power |
|--|-----------------------|-----------------------|-------------|
| | LTE-Band 7 (5MHz) | 2502.5MHz – 2567.5MHz | 23dBm |
| | LTE-Band 7 (10MHz) | 2505.0MHz – 2565.0MHz | 23dBm |
| | LTE-Band 7 (15MHz) | 2507.5MHz – 2562.5MHz | 23dBm |
| | LTE-Band 7 (20MHz) | 2510.0MHz – 2560MHz | 23dBm |
| | LTE-Band 12 (1.4MHz) | 699.7MHz– 715.3MHz | 23dBm |
| | LTE-Band 12 (3MHz) | 700.5MHz – 714.5MHz | 23dBm |
| | LTE-Band 12 (5MHz) | 701.5MHz – 713.5MHz | 23dBm |
| | LTE-Band 12 (10MHz) | 704.0MHz – 711.0MHz | 23dBm |
| | LTE-Band 13 (5MHz) | 779.5MHz - 784.5MHz | 23dBm |
| | LTE-Band 13 (10MHz) | 782.0MHz | 23dBm |
| | LTE-Band 17 (5MHz) | 706.5MHz – 713.5MHz | 23dBm |
| | LTE-Band 17 (10MHz) | 709.0MHz –711.0MHz | 23dBm |
| | IMEI: 358895060487924 | | |

Type of Emission:

| Frequency Band | Type of Emission: |
|-------------------------------|-------------------|
| GPRS 850 | 244KGXW |
| EDGE 850 | 246KG7W |
| GPRS 1900 | 245KGXW |
| EDGE 1900 | 248KG7W |
| CDMA 2000 Cellular (BC0) | 1M27F9W |
| CDMA 2000 EVDO Cellular (BC0) | 1M27F9W |
| CDMA 2000 PCS (BC1) | 1M28F9W |
| CDMA 2000 EVDO PCS (BC1) | 1M28F9W |
| WCDMA Band II | 4M15F9W |
| HSDPA Band II | 4M16F9W |
| HSUPA Band II | 4M16F9W |
| WCDMA Band IV | 4M16F9W |
| HSDPA Band IV | 4M16F9W |
| HSUPA Band IV | 4M16F9W |
| WCDMA Band V | 4M16F9W |
| HSDPA Band V | 4M16F9W |
| HSUPA Band V | 4M15F9W |

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| LTE Band | BW (MHz) | Modulation | Type of Emission |
|------------|----------|------------|------------------|
| LTE Band 2 | 1.4MHz | QPSK | 1M10G7D |
| LTE Band 2 | 1.4MHz | 16QAM | 1M11D7W |
| LTE Band 2 | 3MHz | QPSK | 2M71G7D |
| LTE Band 2 | 3MHz | 16QAM | 2M71D7W |
| LTE Band 2 | 5MHz | QPSK | 4M51G7D |
| LTE Band 2 | 5MHz | 16QAM | 4M51D7W |
| LTE Band 2 | 10MHz | QPSK | 9M01G7D |
| LTE Band 2 | 10MHz | 16QAM | 8M96D7W |
| LTE Band 2 | 15MHz | QPSK | 13M5G7D |
| LTE Band 2 | 15MHz | 16QAM | 13M4D7W |
| LTE Band 2 | 20MHz | QPSK | 17M9G7D |
| LTE Band 2 | 20MHz | 16QAM | 17M9D7W |
| LTE Band 4 | 1.4MHz | QPSK | 1M10G7D |
| LTE Band 4 | 1.4MHz | 16QAM | 1M10D7W |
| LTE Band 4 | 3MHz | QPSK | 2M71G7D |
| LTE Band 4 | 3MHz | 16QAM | 2M71D7W |
| LTE Band 4 | 5MHz | QPSK | 4M51G7D |
| LTE Band 4 | 5MHz | 16QAM | 4M50D7W |
| LTE Band 4 | 10MHz | QPSK | 8M99G7D |
| LTE Band 4 | 10MHz | 16QAM | 8M96D7W |
| LTE Band 4 | 15MHz | QPSK | 13M5G7D |
| LTE Band 4 | 15MHz | 16QAM | 13M5D7W |
| LTE Band 4 | 20MHz | QPSK | 17M9G7D |
| LTE Band 4 | 20MHz | 16QAM | 17M9D7W |
| LTE Band 5 | 1.4MHz | QPSK | 1M10G7D |
| LTE Band 5 | 1.4MHz | 16QAM | 1M10D7W |
| LTE Band 5 | 3MHz | QPSK | 2M71G7D |
| LTE Band 5 | 3MHz | 16QAM | 2M71D7W |
| LTE Band 5 | 5MHz | QPSK | 4M51G7D |
| LTE Band 5 | 5MHz | 16QAM | 4M50D7W |
| LTE Band 5 | 10MHz | QPSK | 9M03G7D |
| LTE Band 5 | 10MHz | 16QAM | 9M01D7W |
| LTE Band 7 | 5MHz | QPSK | 4M51G7D |
| LTE Band 7 | 5MHz | 16QAM | 4M51D7W |
| LTE Band 7 | 10MHz | QPSK | 9M01G7D |
| LTE Band 7 | 10MHz | 16QAM | 8M96D7W |
| LTE Band 7 | 15MHz | QPSK | 13M5G7D |
| LTE Band 7 | 15MHz | 16QAM | 13M5D7W |
| LTE Band 7 | 20MHz | QPSK | 17M9G7D |
| LTE Band 7 | 20MHz | 16QAM | 17M9D7W |

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| LTE Band | BW (MHz) | Modulation | Type of Emission |
|-------------|----------|------------|------------------|
| LTE Band 12 | 1.4MHz | QPSK | 1M11G7D |
| LTE Band 12 | 1.4MHz | 16QAM | 1M10D7W |
| LTE Band 12 | 3MHz | QPSK | 2M72G7D |
| LTE Band 12 | 3MHz | 16QAM | 2M71D7W |
| LTE Band 12 | 5MHz | QPSK | 4M53G7D |
| LTE Band 12 | 5MHz | 16QAM | 4M52D7W |
| LTE Band 12 | 10MHz | QPSK | 9M06G7D |
| LTE Band 12 | 10MHz | 16QAM | 9M04D7W |
| LTE Band 13 | 5MHz | QPSK | 4M99G7D |
| LTE Band 13 | 5MHz | 16QAM | 4M51D7W |
| LTE Band 13 | 10MHz | QPSK | 9M00G7D |
| LTE Band 13 | 10MHz | 16QAM | 8M95D7W |
| LTE Band 17 | 5MHz | QPSK | 4M52G7D |
| LTE Band 17 | 5MHz | 16QAM | 4M52D7W |
| LTE Band 17 | 10MHz | QPSK | 9M00G7D |
| LTE Band 17 | 10MHz | 16QAM | 8M95D7W |

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Max ERP/EIRP Power Measurement Result:

| | dBm | | W |
|-------------------------------------|-------|------|-------|
| GPRS 850 | 23.86 | ERP | 0.243 |
| EDGE 850 | 20.62 | ERP | 0.115 |
| GPRS 1900 | 27.02 | EIRP | 0.504 |
| EDGE 1900 | 25.46 | EIRP | 0.352 |
| CDMA 2000 Cellular (BC0) | 15.80 | ERP | 0.038 |
| CDMA 2000 EVDO Cellular (BC0) | 15.40 | ERP | 0.035 |
| CDMA 2000 PCS (BC1) | 21.10 | EIRP | 0.129 |
| CDMA 2000 EVDO PCS (BC1) | 20.16 | EIRP | 0.104 |
| WCDMA Band II | 26.42 | EIRP | 0.439 |
| HSDPA Band II | 23.91 | EIRP | 0.246 |
| HSUPA Band II | 23.28 | EIRP | 0.213 |
| WCDMA Band IV | 27.97 | EIRP | 0.627 |
| HSDPA Band IV | 25.65 | EIRP | 0.367 |
| HSUPA Band IV | 24.55 | EIRP | 0.285 |
| WCDMA Band V | 20.62 | ERP | 0.115 |
| HSDPA Band V | 19.64 | ERP | 0.092 |
| HSUPA Band V | 17.60 | ERP | 0.058 |
| LTE-Band 2 (Bandwidth 1.4MHz) QPSK | 25.45 | EIRP | 0.351 |
| LTE-Band 2 (Bandwidth 1.4MHz) 16QAM | 25.70 | EIRP | 0.372 |
| LTE-Band 2 (Bandwidth 3MHz) QPSK | 25.80 | EIRP | 0.380 |
| LTE-Band 2 (Bandwidth 3MHz) 16QAM | 25.95 | EIRP | 0.394 |
| LTE-Band 2 (Bandwidth 5MHz) QPSK | 25.81 | EIRP | 0.381 |
| LTE-Band 2 (Bandwidth 5MHz) 16QAM | 25.94 | EIRP | 0.393 |
| LTE-Band 2 (Bandwidth 10MHz) QPSK | 25.80 | EIRP | 0.380 |
| LTE-Band 2 (Bandwidth 10MHz) 16QAM | 26.15 | EIRP | 0.412 |
| LTE-Band 2 (Bandwidth 15MHz) QPSK | 25.71 | EIRP | 0.372 |
| LTE-Band 2 (Bandwidth 15MHz) 16QAM | 25.96 | EIRP | 0.394 |
| LTE-Band 2 (Bandwidth 20MHz) QPSK | 25.11 | EIRP | 0.324 |
| LTE-Band 2 (Bandwidth 20MHz) 16QAM | 25.37 | EIRP | 0.344 |

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| | dBm | | W |
|-------------------------------------|--------------|------|----------|
| LTE-Band 4 (Bandwidth 1.4MHz) QPSK | 24.29 | EIRP | 0.269 |
| LTE-Band 4 (Bandwidth 1.4MHz) 16QAM | 24.42 | EIRP | 0.277 |
| LTE-Band 4 (Bandwidth 3MHz) QPSK | 24.48 | EIRP | 0.281 |
| LTE-Band 4 (Bandwidth 3MHz) 16QAM | 24.58 | EIRP | 0.287 |
| LTE-Band 4 (Bandwidth 5MHz) QPSK | 24.63 | EIRP | 0.290 |
| LTE-Band 4 (Bandwidth 5MHz) 16QAM | 24.78 | EIRP | 0.301 |
| LTE-Band 4 (Bandwidth 10MHz) QPSK | 24.54 | EIRP | 0.284 |
| LTE-Band 4 (Bandwidth 10MHz) 16QAM | 24.75 | EIRP | 0.299 |
| LTE-Band 4 (Bandwidth 15MHz) QPSK | 24.74 | EIRP | 0.298 |
| LTE-Band 4 (Bandwidth 15MHz) 16QAM | 24.99 | EIRP | 0.316 |
| LTE-Band 4 (Bandwidth 20MHz) QPSK | 24.74 | EIRP | 0.298 |
| LTE-Band 4 (Bandwidth 20MHz) 16QAM | 25.12 | EIRP | 0.325 |
| LTE-Band 5 (Bandwidth 1.4MHz) QPSK | 18.87 | ERP | 0.077 |
| LTE-Band 5 (Bandwidth 1.4MHz) 16QAM | 18.27 | ERP | 0.067 |
| LTE-Band 5 (Bandwidth 3MHz) QPSK | 20.06 | ERP | 0.101 |
| LTE-Band 5 (Bandwidth 3MHz) 16QAM | 19.43 | ERP | 0.088 |
| LTE-Band 5 (Bandwidth 5MHz) QPSK | 20.33 | ERP | 0.108 |
| LTE-Band 5 (Bandwidth 5MHz) 16QAM | 20.58 | ERP | 0.114 |
| LTE-Band 5 (Bandwidth 10MHz) QPSK | 19.99 | ERP | 0.100 |
| LTE-Band 5 (Bandwidth 10MHz) 16QAM | 19.70 | ERP | 0.093 |
| LTE-Band 7 (Bandwidth 5MHz) QPSK | 23.03 | EIRP | 0.201 |
| LTE-Band 7 (Bandwidth 5MHz) 16QAM | 23.24 | EIRP | 0.211 |
| LTE-Band 7 (Bandwidth 10MHz) QPSK | 23.02 | EIRP | 0.200 |
| LTE-Band 7 (Bandwidth 10MHz) 16QAM | 23.28 | EIRP | 0.213 |
| LTE-Band 7 (Bandwidth 15MHz) QPSK | 22.54 | EIRP | 0.179 |
| LTE-Band 7 (Bandwidth 15MHz) 16QAM | 22.84 | EIRP | 0.192 |
| LTE-Band 7 (Bandwidth 20MHz) QPSK | 22.65 | EIRP | 0.184 |
| LTE-Band 7 (Bandwidth 20MHz) 16QAM | 22.77 | EIRP | 0.189 |

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| | dBm | | W |
|--------------------------------------|--------------|-----|----------|
| LTE-Band 12 (Bandwidth 1.4MHz) QPSK | 20.74 | ERP | 0.119 |
| LTE-Band 12 (Bandwidth 1.4MHz) 16QAM | 20.89 | ERP | 0.123 |
| LTE-Band 12 (Bandwidth 3MHz) QPSK | 21.03 | ERP | 0.127 |
| LTE-Band 12 (Bandwidth 3MHz) 16QAM | 21.26 | ERP | 0.134 |
| LTE-Band 12 (Bandwidth 5MHz) QPSK | 21.17 | ERP | 0.131 |
| LTE-Band 12 (Bandwidth 5MHz) 16QAM | 21.36 | ERP | 0.137 |
| LTE-Band 12 (Bandwidth 10MHz) QPSK | 20.93 | ERP | 0.124 |
| LTE-Band 12 (Bandwidth 10MHz) 16QAM | 21.18 | ERP | 0.131 |
| LTE-Band 13 (Bandwidth 5MHz) QPSK | 18.40 | ERP | 0.069 |
| LTE-Band 13 (Bandwidth 5MHz) 16QAM | 18.47 | ERP | 0.070 |
| LTE-Band 13 (Bandwidth 10MHz) QPSK | 17.90 | ERP | 0.062 |
| LTE-Band 13 (Bandwidth 10MHz) 16QAM | 18.11 | ERP | 0.065 |
| LTE-Band 17 (Bandwidth 5MHz) QPSK | 20.75 | ERP | 0.119 |
| LTE-Band 17 (Bandwidth 5MHz) 16QAM | 21.17 | ERP | 0.131 |
| LTE-Band 17 (Bandwidth 10MHz) QPSK | 21.34 | ERP | 0.136 |
| LTE-Band 17 (Bandwidth 10MHz) 16QAM | 21.69 | ERP | 0.148 |

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1.2. Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) supports below functions.

| Product Feature | |
|-------------------------------|---------------------------------------|
| GPRS / EGPRS Multi Slot Class | GPRS Class 12 / Class 12 |
| CDMA / EVDO | BC0 / BC1 |
| WCDMA Operating Band(s) | FDD Band II / IV / V |
| WCDMA Rel. Version | Rel.99 |
| LTE Operating Band(s) | FCC Band 2 / 4 / 5 / 7 / 12 / 13 / 17 |
| LTE Rel. Version | Rel.10 |
| Bluetooth Version | V4.2 dual mode |
| Wi-Fi- Specification | 802.11a/b/g/n/ac |
| NFC Specification | NFC |

Note: The above EUT information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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1.3. Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22, 24, 27

ANSI / TIA / EIA 603-D-2010

KDB971168 D01 Power Meas license Digital System

KDB941225 of the Output power Procedure of (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.

1.4. Test Facility

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

FCC Registration Numbers are: 509634

1.5. Special Accessories

No special accessories were used during testing.

1.6. 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 TIA/EIA 603C, 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 TIA/EIA 603C, The EUT is placed on a turn table which is 0.8 m above ground plane. 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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The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Following shows an offset computation example with cable loss 1 dB for low band and 1 for high band with 10 dB attenuator and 3.2 splitter.

Low Band: Offset = RF cable loss (dB)+ attenuation factor(dB) =3.6+10=13.6(dB)

High Band: Offset = RF cable loss (dB)+ attenuation factor(dB) =4+10=14(dB)

2.5. Final Amplifier Voltage and Current Information:

| Test Mode | DC voltage (V) | DC current (mA) |
|-----------|----------------|-----------------|
| GPRS 850 | 7.7 Vdc | 526 |
| GPRS 1900 | 7.7 Vdc | 533 |
| EDGE 850 | 7.7 Vdc | 486 |
| EDGE 1900 | 7.7 Vdc | 516 |
| WCDMA B2 | 7.7 Vdc | 722 |
| WCDMA B4 | 7.7 Vdc | 691 |
| WCDMA B5 | 7.7 Vdc | 665 |
| HSUPA B2 | 7.7 Vdc | 741 |
| HSUPA B4 | 7.7 Vdc | 689 |
| HSUPA B5 | 7.7 Vdc | 654 |
| HSDPA B2 | 7.7 Vdc | 751 |
| HSDPA B4 | 7.7 Vdc | 674 |
| HSDPA B5 | 7.7 Vdc | 635 |

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| Test Mode | DC voltage (V) | DC current (mA) |
|-----------|----------------|-----------------|
| CDMA BC0 | 7.7 Vdc | 931 |
| EVDO BC0 | 7.7 Vdc | 881 |
| CDMA BC1 | 7.7 Vdc | 932 |
| EVDO BC1 | 7.7 Vdc | 889 |

| Test Mode | DC voltage (V) | DC current (mA) |
|-----------------------|----------------|-----------------|
| LTE Band 2_1.4M QPSK | 7.7Vdc | 894 |
| LTE Band 2_1.4M 16QAM | 7.7Vdc | 884 |
| LTE Band 2_3M QPSK | 7.7Vdc | 906 |
| LTE Band 2_3M 16QAM | 7.7Vdc | 891 |
| LTE Band 2_5M QPSK | 7.7Vdc | 903 |
| LTE Band 2_5M 16QAM | 7.7Vdc | 891 |
| LTE Band 2_10M QPSK | 7.7Vdc | 906 |
| LTE Band 2_10M 16QAM | 7.7Vdc | 879 |
| LTE Band 2_15M QPSK | 7.7Vdc | 923 |
| LTE Band 2_15M 16QAM | 7.7Vdc | 973 |
| LTE Band 2_20M QPSK | 7.7Vdc | 959 |
| LTE Band 2_20M 16QAM | 7.7Vdc | 976 |

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| Test Mode | DC voltage (V) | DC current (mA) |
|-----------------------|----------------|-----------------|
| LTE Band 4_1.4M QPSK | 7.7Vdc | 906 |
| LTE Band 4_1.4M 16QAM | 7.7Vdc | 926 |
| LTE Band 4_3M QPSK | 7.7Vdc | 924 |
| LTE Band 4_3M 16QAM | 7.7Vdc | 911 |
| LTE Band 4_5M QPSK | 7.7Vdc | 935 |
| LTE Band 4_5M 16QAM | 7.7Vdc | 903 |
| LTE Band 4_10M QPSK | 7.7Vdc | 934 |
| LTE Band 4_10M 16QAM | 7.7Vdc | 912 |
| LTE Band 4_15M QPSK | 7.7Vdc | 954 |
| LTE Band 4_15M 16QAM | 7.7Vdc | 973 |
| LTE Band 4_20M QPSK | 7.7Vdc | 965 |
| LTE Band 4_20M 16QAM | 7.7Vdc | 931 |

| Test Mode | DC voltage (V) | DC current (mA) |
|-----------------------|----------------|-----------------|
| LTE Band 5_1.4M QPSK | 7.7Vdc | 954 |
| LTE Band 5_1.4M 16QAM | 7.7Vdc | 961 |
| LTE Band 5_3M QPSK | 7.7Vdc | 974 |
| LTE Band 5_3M 16QAM | 7.7Vdc | 987 |
| LTE Band 5_5M QPSK | 7.7Vdc | 966 |
| LTE Band 5_5M 16QAM | 7.7Vdc | 968 |
| LTE Band 5_10M QPSK | 7.7Vdc | 954 |
| LTE Band 5_10M 16QAM | 7.7Vdc | 974 |

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| Test Mode | DC voltage (V) | DC current (mA) |
|----------------------|----------------|-----------------|
| LTE Band 7_5M QPSK | 7.7Vdc | 964 |
| LTE Band 7_5M 16QAM | 7.7Vdc | 974 |
| LTE Band 7_10M QPSK | 7.7Vdc | 964 |
| LTE Band 7_10M 16QAM | 7.7Vdc | 951 |
| LTE Band 7_15M QPSK | 7.7Vdc | 964 |
| LTE Band 7_15M 16QAM | 7.7Vdc | 988 |
| LTE Band 7_20M QPSK | 7.7Vdc | 974 |
| LTE Band 7_20M 16QAM | 7.7Vdc | 986 |

| Test Mode | DC voltage (V) | DC current (mA) |
|------------------------|----------------|-----------------|
| LTE Band 12_1.4M QPSK | 7.7Vdc | 954 |
| LTE Band 12_1.4M 16QAM | 7.7Vdc | 974 |
| LTE Band 12_3M QPSK | 7.7Vdc | 963 |
| LTE Band 12_3M 16QAM | 7.7Vdc | 974 |
| LTE Band 12_5M QPSK | 7.7Vdc | 965 |
| LTE Band 12_5M 16QAM | 7.7Vdc | 977 |
| LTE Band 12_10M QPSK | 7.7Vdc | 961 |
| LTE Band 12_10M 16QAM | 7.7Vdc | 957 |

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| Test Mode | DC voltage (V) | DC current (mA) |
|-----------------------|----------------|-----------------|
| LTE Band 13_5M QPSK | 7.7Vdc | 954 |
| LTE Band 13_5M 16QAM | 7.7Vdc | 966 |
| LTE Band 13_10M QPSK | 7.7Vdc | 987 |
| LTE Band 13_10M 16QAM | 7.7Vdc | 981 |

| Test Mode | DC voltage (V) | DC current (mA) |
|-----------------------|----------------|-----------------|
| LTE Band 17_5M QPSK | 7.7Vdc | 964 |
| LTE Band 17_5M 16QAM | 7.7Vdc | 955 |
| LTE Band 17_10M QPSK | 7.7Vdc | 981 |
| LTE Band 17_10M 16QAM | 7.7Vdc | 971 |

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2.6. Configuration of Tested System

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

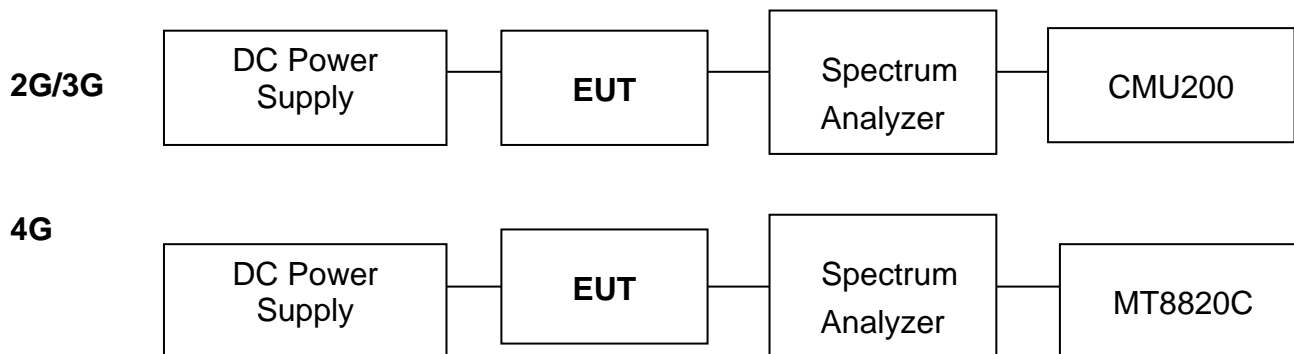


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)

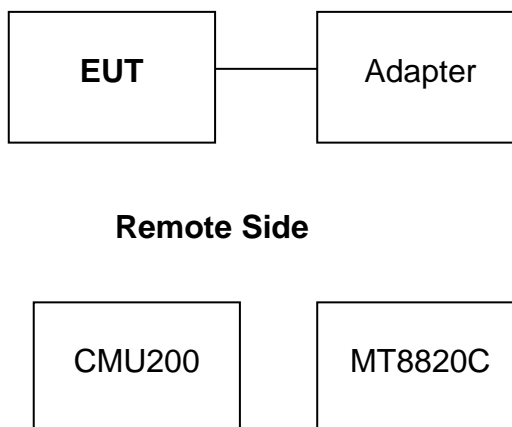


Table 2-1 Equipment Used in

| Item | Equipment | Mfr/Brand | Model/ Type No. | Series No. | Data Cable | Power Cord |
|------|--------------------------------------|-----------|--------------------|------------|------------|-------------|
| 1. | Universal Radio Communication Tester | R&S | CMU200 | 102189 | shielded | Un-shielded |
| 2. | Universal Radio Communication Tester | Anritsu | MT8820C | 6200307563 | 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)(2) §24.232(c) §27.50(c)(9) §27.50(d)(4) §27.50(h)(2) | ERP/ EIRP measure- ment | Compliant |
| §2.1049(h) | 99% & 26dB Occuupied Bandwidth | Compliant |
| §2.1051 §22.917(a) §24.238(a) §27.53(g) §27.50(c)(5) §27.53(h) §27.53(m)(4)(6) | 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(g) §27.53(h) §27.53(m)(4) | Field Strength of Spu- rious 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 | 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 and Wireless charging Cover |
|-------------------------------|----------|---|
| GPRS/EDGE 850 | E2-plan | E2-plan |
| GPRS/EDGE 1900 | E2-plan | E2-plan |
| WCDMA/HSPA Band II | E2-plan | E2-plan |
| WCDMA/HSPA Band IV | E2-plan | E2-plan |
| WCDMA/HSPA Band V | E2-plan | E2-plan |
| CDMA 2000 Cellular (BC0) | E2-plan | E2-plan |
| CDMA 2000 PCS (BC1) | E2-plan | E2-plan |
| CDMA 2000 EVDO Cellular (BC0) | E2-plan | E2-plan |
| CDMA 2000 EVDO PCS (BC1) | 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 | E1-plan | E1-plan |
| LTE Band 12 | E2-plan | E2-plan |
| LTE Band 13 | E2-plan | E2-plan |
| LTE Band 17 | E2-plan | E2-plan |

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GPRS/EDGE MODE

| TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | MODE |
|-----------------------|--------------------------|--------------------------------|---------------------------------|
| ERP | 128 to 251 | 128, 190, 251 | GPRS/EDGE 850 |
| EIRP | 512 to 810 | 512, 661, 810 | GPRS/EDGE 1900 |
| FREQUENCY STABILITY | 128 to 251 512 to 810 | 190 661 | GPRS 850 GPRS 1900 |
| OCCUPIED BANDWIDTH | 128 to 251 512 to 810 | 190 661 | GPRS/EDGE 850 GPRS/EDGE 1900 |
| PEAK TO AVERAGE RATIO | 128 to 251 512 to 810 | 128, 190, 251 512, 661, 810 | GPRS/EDGE 850 GPRS/EDGE 1900 |
| BAND EDGE | 128 to 251 512 to 810 | 128, 251 512, 810 | GPRS/EDGE 850 GPRS/EDGE 1900 |
| CONDCUDED EMISSION | 128 to 251 512 to 810 | 128, 190, 251 512, 661, 810 | GPRS/EDGE 850 GPRS/EDGE 1900 |
| RADIATED EMISSION | 128 to 251 512 to 810 | 128, 190, 251 512, 661, 810 | GPRS 850 GPRS 1900 |

WCDMA/HSPA MODE

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

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CDMA/EVDO MODE

| TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | MODE |
|-----------------------|---------------------------|---------------------------------|---|
| ERP | 1013 to 777 | 1013, 384, 777 | CDMA2000/ EVDO Cellular BC0 |
| EIRP | 25 to 1175 | 25, 600, 1175 | CDMA2000/ EVDO PCS BC1 |
| FREQUENCY STABILITY | 1013 to 777 25 to 1175 | 384 600 | CDMA2000/ EVDO Cellular BC0 CDMA2000/ EVDO PCS BC1 |
| OCCUPIED BANDWIDTH | 1013 to 777 25 to 1175 | 1013, 384, 777 25, 600, 1175 | CDMA2000/ EVDO Cellular BC0 CDMA2000/ EVDO PCS BC1 |
| PEAK TO AVERAGE RATIO | 1013 to 777 25 to 1175 | 1013, 384, 777 25, 600, 1175 | CDMA2000/ EVDO Cellular BC0 CDMA2000/ EVDO PCS BC1 |
| BAND EDGE | 1013 to 777 25 to 1175 | 1013, 777 25, 1175 | CDMA2000/ EVDO Cellular BC0 CDMA2000/ EVDO PCS BC1 |
| CONDCUDED EMISSION | 1013 to 777 25 to 1175 | 1013, 384, 777 25, 600, 1175 | CDMA2000/ EVDO Cellular BC0 CDMA2000/ EVDO PCS BC1 |
| RADIATED EMISSION | 1013 to 777 25 to 1175 | 1013, 384, 777 25, 600, 1175 | CDMA2000 Cellular BC0 CDMA2000 PCS BC1 |

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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 BANDWIDTH | 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 | 18675 to 19125 | 18675, 18900, 19125 | 15MHz | 16QAM | 1 RB, 0 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 BANDWIDTH | 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, 99 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 BANDWIDTH | 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 | QPSK | 1 RB, 24 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 BANDWIDTH | 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 | CHANNEL BANDWIDTH | 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 AVERAGE 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 |
| CONDCUDED EMISSION | 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 | 23035 to 23155 | 23035, 23095, 23155 | 5MHz | 16QAM | 1 RB, 0 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 | 16QAM | 1 RB, 0 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 | +/- 0.70 dB |
| Terminals and Band Edge | |
| 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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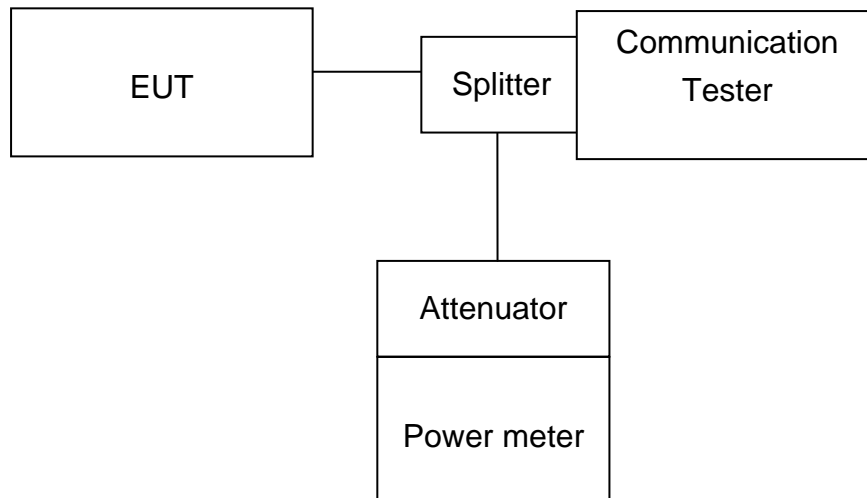
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6. RF CONDUCTED OUTPUT POWER MEASUREMENT

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

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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. |
| Power Meter | Anritsu | ML2495A | 1005007 | 12/09/2015 | 12/08/2016 |
| Power Sensor | Anritsu | MA2411B | 917032 | 12/09/2015 | 12/08/2016 |
| EXA Spectrum Analyzer | Agilent | N9030A | MY53120760 | 02/26/2016 | 02/25/2017 |
| DC Block | Mini-Circuits | BLK-18-S+ | 1 | 01/02/2016 | 01/01/2017 |
| Coaxial Cable | HUBER+SUHNER | SUCOFLEX 102 | 23670/2 | 01/02/2016 | 01/01/2017 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 2 | 01/02/2016 | 01/01/2017 |
| Splitter | Agilent | 11636B | N/A | 01/02/2016 | 01/01/2017 |
| DC Power Supply | Agilent | E3640A | MY52410006 | 11/05/2015 | 11/04/2016 |
| Temperature Chamber | TERCHY | MHG-120LF | 911009 | 05/17/2016 | 05/16/2017 |
| Radio Communication Analyser | Anritsu | MT8820C | 6201465317 | 12/10/2015 | 12/09/2016 |
| Radio Communication Analyzer | R&S | CMU200 | 102189 | 02/11/2016 | 02/10/2017 |

6.5. Measurement Result

RF Conducted Output Power

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| EUT Mode | Frequency (MHz) | CH | Peak Power (1DN 1UP) Class 8 (dBm) | Average Burst Power (1DN 1UP) Class 8 (dBm) | Peak Power (1DN 2UP) Class 10 (dBm) | Average Burst Power (1DN 2UP) Class 10 (dBm) |
|-----------|--------------------|-----|---|--|--|---|
| GPRS 850 | 824.2 | 128 | 33.80 | 33.28 | 33.70 | 32.95 |
| | 836.6 | 190 | 33.60 | 33.27 | 33.80 | 32.96 |
| | 848.8 | 251 | 33.30 | 33.20 | 33.60 | 32.90 |
| GPRS 1900 | 1850.2 | 512 | 31.60 | 30.35 | 30.70 | 29.97 |
| | 1880.0 | 661 | 31.30 | 30.03 | 30.70 | 29.94 |
| | 1909.8 | 810 | 31.50 | 30.25 | 30.60 | 29.91 |
| EDGE 850 | 824.2 | 128 | 30.60 | 27.17 | 29.70 | 26.49 |
| | 836.6 | 190 | 30.50 | 27.15 | 29.70 | 26.46 |
| | 848.8 | 251 | 30.90 | 27.18 | 29.60 | 26.42 |
| EDGE 1900 | 1850.2 | 512 | 29.90 | 26.40 | 29.90 | 25.31 |
| | 1880.0 | 661 | 29.60 | 26.13 | 29.60 | 25.08 |
| | 1909.8 | 810 | 29.70 | 26.26 | 29.70 | 25.16 |

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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:

| EUT Mode | | WCDMA Band II | | HSDPA Band II | | HSUPA Band II | |
|-----------------|------|------------------|------------------|------------------|------------------|------------------|------------------|
| Frequency (MHz) | CH | Peak Power (dBm) | Avg. Power (dBm) | Peak Power (dBm) | Avg. Power (dBm) | Peak Power (dBm) | Avg. Power (dBm) |
| 1852.4 | 9262 | 27.81 | 23.86 | 27.31 | 22.87 | 26.79 | 22.84 |
| 1880.0 | 9400 | 28.33 | 24.07 | 27.39 | 22.93 | 27.32 | 23.07 |
| 1907.6 | 9538 | 28.81 | 24.24 | 27.79 | 23.31 | 27.44 | 23.26 |

| EUT Mode | | WCDMA Band IV | | HSDPA Band IV | | HSUPA Band IV | |
|-----------------|------|------------------|------------------|------------------|------------------|------------------|------------------|
| Frequency (MHz) | CH | Peak Power (dBm) | Avg. Power (dBm) | Peak Power (dBm) | Avg. Power (dBm) | Peak Power (dBm) | Avg. Power (dBm) |
| 1712.4 | 1312 | 27.43 | 24.12 | 27.12 | 23.22 | 26.78 | 23.42 |
| 1732.6 | 1412 | 27.60 | 24.46 | 27.33 | 23.32 | 26.89 | 23.45 |
| 1752.6 | 1513 | 27.55 | 24.24 | 27.23 | 23.27 | 26.87 | 23.43 |

| EUT Mode | | WCDMA Band V | | HSDPA Band V | | HSUPA Band V | |
|-----------------|------|------------------|------------------|------------------|------------------|------------------|------------------|
| Frequency (MHz) | CH | Peak Power (dBm) | Avg. Power (dBm) | Peak Power (dBm) | Avg. Power (dBm) | Peak Power (dBm) | Avg. Power (dBm) |
| 826.4 | 4132 | 27.26 | 24.16 | 26.55 | 23.12 | 26.22 | 23.05 |
| 836.6 | 4183 | 27.61 | 24.26 | 26.84 | 23.17 | 26.40 | 23.33 |
| 846.6 | 4233 | 27.65 | 24.37 | 27.16 | 23.22 | 26.73 | 23.48 |

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CDMA2000/EVDO MODE

| Mode | Freq. (MHz) | CH | Avg. Power (dBm) |
|------------------------|-------------|------|------------------|
| CDMA 2000 Cellular BC0 | 824.7 | 1013 | 23.55 |
| | 836.52 | 384 | 23.52 |
| | 848.31 | 777 | 23.71 |

| Mode | Freq. (MHz) | CH | Avg. Power (dBm) |
|-------------------|-------------|------|------------------|
| CDMA 2000 PCS BC1 | 1851.25 | 25 | 23.44 |
| | 1880 | 600 | 23.61 |
| | 1908.75 | 1175 | 23.45 |

| Mode | Freq. (MHz) | CH | Avg. Power (dBm) |
|-------------------------|-------------|------|------------------|
| CDMA 2000 EVDO Cellular | 824.7 | 1013 | 23.48 |
| | 836.52 | 384 | 23.50 |
| | 848.31 | 777 | 23.68 |

| Mode | Freq. (MHz) | CH | Avg. Power (dBm) |
|--------------------|-------------|------|------------------|
| CDMA 2000 EVDO PCS | 1851.25 | 25 | 23.35 |
| | 1880 | 600 | 23.55 |
| | 1908.75 | 1175 | 23.39 |

Cable loss CDMA2000 Cell BC0: 0.4 dB
Cable loss CDMA PCS BC1: 0.8 dB

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LTE Result:

LTE Band 2

| LTE Band 2 Uplink frequency band : 1850 to 1910 MHz | | | | | | | | |
|---|------------|--------------|---------------------------|---------------------------|----------------------------|---------------------------|---------------------------|----------------------------|
| BW (MHz) | RB Size | RB Offset | Conducted power(dBm) | | | | | |
| | | | QPSK | | | 16QAM | | |
| | | | Channel (Low) 18607 | Channel (Mid) 18900 | Channel (High) 19193 | Channel (Low) 18607 | Channel (Mid) 18900 | Channel (High) 19193 |
| 1.4 | 1 | 0 | 23.34 | 23.26 | 23.43 | 22.45 | 22.56 | 22.63 |
| | 1 | 5 | 23.44 | 23.29 | 23.47 | 22.18 | 22.33 | 22.43 |
| | 3 | 2 | 23.58 | 23.32 | 23.46 | 22.27 | 22.30 | 22.61 |
| | 6 | 0 | 22.51 | 22.38 | 22.55 | 21.37 | 21.23 | 21.37 |

| LTE Band 2 Uplink frequency band : 1850 to 1910 MHz | | | | | | | | |
|---|------------|--------------|---------------------------|---------------------------|----------------------------|---------------------------|---------------------------|----------------------------|
| BW (MHz) | RB Size | RB Offset | Conducted power(dBm) | | | | | |
| | | | QPSK | | | 16QAM | | |
| | | | Channel (Low) 18615 | Channel (Mid) 18900 | Channel (High) 19185 | Channel (Low) 18615 | Channel (Mid) 18900 | Channel (High) 19185 |
| 3 | 1 | 0 | 23.43 | 23.40 | 23.43 | 22.43 | 21.94 | 22.08 |
| | 1 | 14 | 23.52 | 23.30 | 23.37 | 22.29 | 22.44 | 22.17 |
| | 8 | 4 | 22.42 | 22.28 | 22.46 | 21.40 | 21.26 | 21.32 |
| | 15 | 0 | 22.47 | 22.35 | 22.52 | 21.52 | 21.25 | 21.35 |

| LTE Band 2 Uplink frequency band : 1850 to 1910 MHz | | | | | | | | |
|---|------------|--------------|---------------------------|---------------------------|----------------------------|---------------------------|---------------------------|----------------------------|
| BW (MHz) | RB Size | RB Offset | Conducted power(dBm) | | | | | |
| | | | QPSK | | | 16QAM | | |
| | | | Channel (Low) 18625 | Channel (Mid) 18900 | Channel (High) 19175 | Channel (Low) 18625 | Channel (Mid) 18900 | Channel (High) 19175 |
| 5 | 1 | 0 | 23.47 | 23.25 | 23.49 | 22.45 | 22.54 | 22.42 |
| | 1 | 24 | 23.06 | 23.38 | 23.50 | 22.03 | 22.53 | 22.21 |
| | 12 | 6 | 22.38 | 22.26 | 22.57 | 21.44 | 21.26 | 21.41 |
| | 25 | 0 | 22.47 | 22.19 | 22.51 | 21.45 | 21.24 | 21.46 |

| LTE Band 2 Uplink frequency band : 1850 to 1910 MHz | | | | | | | | |
|---|------------|--------------|---------------------------|---------------------------|----------------------------|---------------------------|---------------------------|----------------------------|
| BW (MHz) | RB Size | RB Offset | Conducted power(dBm) | | | | | |
| | | | QPSK | | | 16QAM | | |
| | | | Channel (Low) 18650 | Channel (Mid) 18900 | Channel (High) 19150 | Channel (Low) 18650 | Channel (Mid) 18900 | Channel (High) 19150 |
| 10 | 1 | 0 | 23.34 | 23.15 | 23.35 | 22.74 | 22.48 | 22.29 |
| | 1 | 49 | 23.31 | 23.43 | 23.61 | 22.05 | 22.24 | 22.39 |
| | 25 | 12 | 22.30 | 22.41 | 22.46 | 21.23 | 21.23 | 21.35 |
| | 50 | 0 | 22.31 | 22.40 | 22.45 | 21.26 | 21.29 | 21.42 |

| LTE Band 2 Uplink frequency band : 1850 to 1910 MHz | | | | | | | | |
|---|------------|--------------|---------------------------|---------------------------|----------------------------|---------------------------|---------------------------|----------------------------|
| BW (MHz) | RB Size | RB Offset | Conducted power(dBm) | | | | | |
| | | | QPSK | | | 16QAM | | |
| | | | Channel (Low) 18675 | Channel (Mid) 18900 | Channel (High) 19125 | Channel (Low) 18675 | Channel (Mid) 18900 | Channel (High) 19125 |
| 15 | 1 | 0 | 23.69 | 23.19 | 23.52 | 22.23 | 22.53 | 22.13 |
| | 1 | 74 | 23.23 | 23.50 | 23.58 | 22.64 | 22.27 | 22.15 |
| | 36 | 19 | 22.16 | 22.41 | 22.42 | 21.01 | 21.27 | 21.37 |
| | 75 | 0 | 22.40 | 22.39 | 22.50 | 21.21 | 21.23 | 21.34 |

| LTE Band 2 Uplink frequency band : 1850 to 1910 MHz | | | | | | | | |
|---|------------|--------------|---------------------------|---------------------------|----------------------------|---------------------------|---------------------------|----------------------------|
| BW (MHz) | RB Size | RB Offset | Conducted power(dBm) | | | | | |
| | | | QPSK | | | 16QAM | | |
| | | | Channel (Low) 18700 | Channel (Mid) 18900 | Channel (High) 19100 | Channel (Low) 18700 | Channel (Mid) 18900 | Channel (High) 19100 |
| 20 | 1 | 0 | 23.62 | 23.43 | 23.40 | 22.70 | 22.11 | 22.63 |
| | 1 | 99 | 23.27 | 23.53 | 23.43 | 22.06 | 22.68 | 22.31 |
| | 50 | 25 | 22.30 | 22.42 | 22.44 | 21.19 | 21.30 | 21.36 |
| | 100 | 0 | 22.40 | 22.54 | 22.52 | 21.21 | 21.36 | 21.42 |

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LTE Band 4

| LTE Band 4 Uplink frequency band : 1710 to 1755 MHz | | | | | | | | |
|---|------------|--------------|---------------------------|---------------------------|----------------------------|---------------------------|---------------------------|----------------------------|
| BW (MHz) | RB Size | RB Offset | Conducted power(dBm) | | | | | |
| | | | QPSK | | | 16QAM | | |
| | | | Channel (Low) 19957 | Channel (Mid) 20175 | Channel (High) 20393 | Channel (Low) 19957 | Channel (Mid) 20175 | Channel (High) 20393 |
| 1.4 | 1 | 0 | 23.43 | 23.57 | 23.25 | 22.63 | 22.42 | 22.42 |
| | 1 | 5 | 23.57 | 23.66 | 23.60 | 22.55 | 22.67 | 22.86 |
| | 3 | 2 | 23.45 | 23.63 | 23.51 | 22.61 | 22.63 | 22.37 |
| | 6 | 0 | 22.15 | 22.71 | 22.33 | 21.43 | 21.67 | 21.47 |

| LTE Band 4 Uplink frequency band : 1710 to 1755 MHz | | | | | | | | |
|---|------------|--------------|---------------------------|---------------------------|----------------------------|---------------------------|---------------------------|----------------------------|
| BW (MHz) | RB Size | RB Offset | Conducted power(dBm) | | | | | |
| | | | QPSK | | | 16QAM | | |
| | | | Channel (Low) 19965 | Channel (Mid) 20175 | Channel (High) 20385 | Channel (Low) 19965 | Channel (Mid) 20175 | Channel (High) 20385 |
| 3 | 1 | 0 | 23.54 | 23.63 | 23.44 | 22.06 | 22.29 | 22.32 |
| | 1 | 14 | 23.20 | 23.67 | 23.53 | 22.30 | 22.51 | 22.66 |
| | 8 | 4 | 22.83 | 22.62 | 22.53 | 21.32 | 21.47 | 21.57 |
| | 15 | 0 | 22.78 | 22.68 | 22.48 | 21.27 | 21.60 | 21.74 |

| LTE Band 4 Uplink frequency band : 1710 to 1755 MHz | | | | | | | | |
|---|------------|--------------|---------------------------|---------------------------|----------------------------|---------------------------|---------------------------|----------------------------|
| BW (MHz) | RB Size | RB Offset | Conducted power(dBm) | | | | | |
| | | | QPSK | | | 16QAM | | |
| | | | Channel (Low) 19975 | Channel (Mid) 20175 | Channel (High) 20375 | Channel (Low) 19975 | Channel (Mid) 20175 | Channel (High) 20375 |
| 5 | 1 | 0 | 23.62 | 23.58 | 23.43 | 22.35 | 22.72 | 22.74 |
| | 1 | 24 | 23.22 | 23.60 | 23.44 | 22.33 | 22.54 | 23.00 |
| | 12 | 6 | 22.37 | 22.62 | 22.62 | 21.46 | 21.76 | 21.44 |
| | 25 | 0 | 22.30 | 22.62 | 22.58 | 21.88 | 21.58 | 21.51 |

| LTE Band 4 Uplink frequency band : 1710 to 1755 MHz | | | | | | | | |
|---|------------|--------------|---------------------------|---------------------------|----------------------------|---------------------------|---------------------------|----------------------------|
| BW (MHz) | RB Size | RB Offset | Conducted power(dBm) | | | | | |
| | | | QPSK | | | 16QAM | | |
| | | | Channel (Low) 20000 | Channel (Mid) 20175 | Channel (High) 20350 | Channel (Low) 20000 | Channel (Mid) 20175 | Channel (High) 20350 |
| 10 | 1 | 0 | 23.26 | 23.76 | 23.56 | 22.40 | 22.91 | 22.54 |
| | 1 | 49 | 23.56 | 23.62 | 23.37 | 22.83 | 22.15 | 22.49 |
| | 25 | 12 | 22.47 | 22.61 | 22.58 | 21.45 | 21.62 | 21.60 |
| | 50 | 0 | 22.53 | 22.77 | 23.00 | 21.53 | 21.67 | 21.61 |

| LTE Band 4 Uplink frequency band : 1710 to 1755 MHz | | | | | | | | |
|---|------------|--------------|---------------------------|---------------------------|----------------------------|---------------------------|---------------------------|----------------------------|
| BW (MHz) | RB Size | RB Offset | Conducted power(dBm) | | | | | |
| | | | QPSK | | | 16QAM | | |
| | | | Channel (Low) 20025 | Channel (Mid) 20175 | Channel (High) 20325 | Channel (Low) 20025 | Channel (Mid) 20175 | Channel (High) 20325 |
| 15 | 1 | 0 | 23.47 | 23.77 | 23.56 | 22.72 | 22.65 | 22.98 |
| | 1 | 74 | 23.52 | 23.57 | 24.00 | 22.64 | 22.58 | 22.56 |
| | 36 | 19 | 22.66 | 22.65 | 22.70 | 21.52 | 21.73 | 21.52 |
| | 75 | 0 | 22.68 | 22.69 | 22.71 | 21.59 | 21.78 | 21.72 |

| LTE Band 4 Uplink frequency band : 1710 to 1755 MHz | | | | | | | | |
|---|------------|--------------|---------------------------|---------------------------|----------------------------|---------------------------|---------------------------|----------------------------|
| BW (MHz) | RB Size | RB Offset | Conducted power(dBm) | | | | | |
| | | | QPSK | | | 16QAM | | |
| | | | Channel (Low) 20050 | Channel (Mid) 20175 | Channel (High) 20300 | Channel (Low) 20050 | Channel (Mid) 20175 | Channel (High) 20300 |
| 20 | 1 | 0 | 23.50 | 23.83 | 23.63 | 22.21 | 22.94 | 22.86 |
| | 1 | 99 | 23.54 | 23.69 | 23.93 | 22.57 | 22.02 | 22.28 |
| | 50 | 25 | 22.74 | 22.77 | 22.71 | 21.70 | 21.79 | 21.62 |
| | 100 | 0 | 22.89 | 22.75 | 22.79 | 21.85 | 21.68 | 21.73 |

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LTE Band 5

| LTE Band 5_Uplink frequency band : 824 to 849 MHz | | | | | | | | |
|---|------------|--------------|---------------------------|---------------------------|----------------------------|---------------------------|---------------------------|----------------------------|
| BW (MHz) | RB Size | RB Offset | Conducted power(dBm) | | | | | |
| | | | QPSK | | | 16QAM | | |
| | | | Channel (Low) 20407 | Channel (Mid) 20525 | Channel (High) 20643 | Channel (Low) 20407 | Channel (Mid) 20525 | Channel (High) 20643 |
| 1.4 | 1 | 0 | 22.95 | 23.04 | 23.13 | 21.97 | 21.90 | 22.45 |
| | 1 | 5 | 23.01 | 23.24 | 23.32 | 21.89 | 22.50 | 22.31 |
| | 3 | 2 | 23.02 | 23.24 | 23.31 | 22.05 | 22.21 | 22.28 |
| | 6 | 0 | 22.14 | 22.25 | 22.30 | 20.96 | 21.17 | 21.17 |

| LTE Band 5_Uplink frequency band : 824 to 849 MHz | | | | | | | | |
|---|------------|--------------|---------------------------|---------------------------|----------------------------|---------------------------|---------------------------|----------------------------|
| BW (MHz) | RB Size | RB Offset | Conducted power(dBm) | | | | | |
| | | | QPSK | | | 16QAM | | |
| | | | Channel (Low) 20415 | Channel (Mid) 20525 | Channel (High) 20635 | Channel (Low) 20415 | Channel (Mid) 20525 | Channel (High) 20635 |
| 3 | 1 | 0 | 22.94 | 23.05 | 23.31 | 21.40 | 21.66 | 22.10 |
| | 1 | 14 | 23.05 | 23.25 | 23.20 | 22.31 | 22.04 | 22.35 |
| | 8 | 4 | 22.03 | 22.23 | 22.25 | 21.02 | 21.30 | 21.12 |
| | 15 | 0 | 22.00 | 22.21 | 22.19 | 21.08 | 21.20 | 21.22 |

| LTE Band 5_Uplink frequency band : 824 to 849 MHz | | | | | | | | |
|---|------------|--------------|----------------------|------------------|-------------------|------------------|------------------|-------------------|
| BW (MHz) | RB Size | RB Offset | Conducted power(dBm) | | | | | |
| | | | QPSK | | | 16QAM | | |
| | | | Channel (Low) | Channel (Mid) | Channel (High) | Channel (Low) | Channel (Mid) | Channel (High) |
| | | | 20425 | 20525 | 20625 | 20425 | 20525 | 20625 |
| 5 | 1 | 0 | 22.95 | 23.13 | 23.23 | 21.89 | 21.74 | 22.06 |
| | 1 | 24 | 23.00 | 23.22 | 23.19 | 21.82 | 22.15 | 22.03 |
| | 12 | 6 | 22.11 | 22.17 | 22.28 | 21.07 | 21.14 | 21.29 |
| | 25 | 0 | 22.03 | 22.25 | 22.24 | 21.06 | 21.24 | 21.18 |

| LTE Band 5_Uplink frequency band : 824 to 849 MHz | | | | | | | | |
|---|------------|--------------|---------------------------|---------------------------|----------------------------|---------------------------|---------------------------|----------------------------|
| BW (MHz) | RB Size | RB Offset | Conducted power(dBm) | | | | | |
| | | | QPSK | | | 16QAM | | |
| | | | Channel (Low) 20450 | Channel (Mid) 20525 | Channel (High) 20600 | Channel (Low) 20450 | Channel (Mid) 20525 | Channel (High) 20600 |
| 10 | 1 | 0 | 23.07 | 23.46 | 23.26 | 22.07 | 22.04 | 22.28 |
| | 1 | 49 | 23.12 | 23.20 | 23.18 | 22.00 | 22.49 | 22.44 |
| | 25 | 12 | 22.17 | 22.18 | 22.29 | 21.07 | 21.13 | 21.32 |
| | 50 | 0 | 22.18 | 22.35 | 22.35 | 21.10 | 21.21 | 21.33 |

LTE Band 7

| LTE Band 7_Uplink frequency band : 2500 to 2570 MHz | | | | | | | | |
|---|------------|--------------|---------------------------|---------------------------|----------------------------|---------------------------|---------------------------|----------------------------|
| BW (MHz) | RB Size | RB Offset | Conducted power(dBm) | | | | | |
| | | | QPSK | | | 16QAM | | |
| | | | Channel (Low) 20775 | Channel (Mid) 21100 | Channel (High) 21425 | Channel (Low) 20775 | Channel (Mid) 21100 | Channel (High) 21425 |
| 5 | 1 | 0 | 23.22 | 23.29 | 23.18 | 21.87 | 22.35 | 22.25 |
| | 1 | 24 | 23.04 | 23.67 | 23.08 | 21.81 | 22.26 | 22.32 |
| | 12 | 6 | 22.06 | 22.42 | 22.21 | 21.21 | 21.53 | 21.22 |
| | 25 | 0 | 21.99 | 22.49 | 22.20 | 21.17 | 21.48 | 21.24 |

| LTE Band 7_Uplink frequency band : 2500 to 2570 MHz | | | | | | | | |
|---|------------|--------------|---------------------------|---------------------------|----------------------------|---------------------------|---------------------------|----------------------------|
| BW (MHz) | RB Size | RB Offset | Conducted power(dBm) | | | | | |
| | | | QPSK | | | 16QAM | | |
| | | | Channel (Low) 20800 | Channel (Mid) 21100 | Channel (High) 21400 | Channel (Low) 20800 | Channel (Mid) 21100 | Channel (High) 21400 |
| 10 | 1 | 0 | 23.37 | 23.16 | 23.25 | 22.31 | 22.34 | 22.26 |
| | 1 | 49 | 23.15 | 23.36 | 23.20 | 21.94 | 22.37 | 22.27 |
| | 25 | 12 | 22.09 | 22.47 | 22.27 | 21.17 | 21.47 | 21.31 |
| | 50 | 0 | 22.08 | 22.65 | 22.27 | 21.12 | 21.42 | 21.36 |

| LTE Band 7_Uplink frequency band : 2500 to 2570 MHz | | | | | | | | |
|---|------------|--------------|----------------------|------------------|-------------------|------------------|------------------|-------------------|
| BW (MHz) | RB Size | RB Offset | Conducted power(dBm) | | | | | |
| | | | QPSK | | | 16QAM | | |
| | | | Channel (Low) | Channel (Mid) | Channel (High) | Channel (Low) | Channel (Mid) | Channel (High) |
| | | | 20825 | 21100 | 21375 | 20825 | 21100 | 21375 |
| 15 | 1 | 0 | 23.10 | 23.21 | 23.30 | 21.86 | 22.04 | 22.40 |
| | 1 | 74 | 23.15 | 23.41 | 23.20 | 22.57 | 22.15 | 22.45 |
| | 36 | 19 | 22.20 | 22.45 | 22.31 | 21.08 | 21.49 | 21.33 |
| | 75 | 0 | 22.19 | 22.44 | 22.22 | 21.18 | 21.47 | 21.27 |

| LTE Band 7_Uplink frequency band : 2500 to 2570 MHz | | | | | | | | |
|---|------------|--------------|---------------------------|---------------------------|----------------------------|---------------------------|---------------------------|----------------------------|
| BW (MHz) | RB Size | RB Offset | Conducted power(dBm) | | | | | |
| | | | QPSK | | | 16QAM | | |
| | | | Channel (Low) 20850 | Channel (Mid) 21100 | Channel (High) 21350 | Channel (Low) 20850 | Channel (Mid) 21100 | Channel (High) 21350 |
| 20 | 1 | 0 | 23.27 | 23.45 | 23.45 | 22.33 | 22.52 | 22.12 |
| | 1 | 99 | 23.19 | 23.51 | 23.35 | 22.08 | 21.81 | 22.34 |
| | 50 | 25 | 22.28 | 22.51 | 22.41 | 21.25 | 21.52 | 21.34 |
| | 100 | 0 | 22.25 | 22.49 | 22.31 | 21.27 | 21.47 | 21.39 |

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LTE Band 12

| LTE Band 12_Uplink frequency band : 699 to 716 MHz | | | | | | | | |
|--|------------|--------------|---------------------------|---------------------------|----------------------------|---------------------------|---------------------------|----------------------------|
| BW (MHz) | RB Size | RB Offset | Conducted power(dBm) | | | | | |
| | | | QPSK | | | 16QAM | | |
| | | | Channel (Low) 23017 | Channel (Mid) 23095 | Channel (High) 23173 | Channel (Low) 23017 | Channel (Mid) 23095 | Channel (High) 23173 |
| 1.4 | 1 | 0 | 22.88 | 22.83 | 23.11 | 21.71 | 22.14 | 21.67 |
| | 1 | 5 | 23.03 | 23.09 | 23.19 | 21.71 | 21.79 | 21.54 |
| | 3 | 2 | 23.04 | 23.40 | 23.29 | 22.01 | 22.13 | 22.19 |
| | 6 | 0 | 22.05 | 22.16 | 22.25 | 20.95 | 21.01 | 21.20 |

| LTE Band 12_Uplink frequency band : 699 to 716 MHz | | | | | | | | |
|--|------------|--------------|---------------------------|---------------------------|----------------------------|---------------------------|---------------------------|----------------------------|
| BW (MHz) | RB Size | RB Offset | Conducted power(dBm) | | | | | |
| | | | QPSK | | | 16QAM | | |
| | | | Channel (Low) 23025 | Channel (Mid) 23095 | Channel (High) 23165 | Channel (Low) 23025 | Channel (Mid) 23095 | Channel (High) 23165 |
| 3 | 1 | 0 | 22.96 | 23.05 | 23.18 | 21.94 | 21.81 | 22.35 |
| | 1 | 14 | 23.05 | 23.13 | 23.20 | 21.62 | 22.24 | 22.52 |
| | 8 | 4 | 21.96 | 22.25 | 22.17 | 20.99 | 21.29 | 21.32 |
| | 15 | 0 | 21.96 | 22.19 | 22.25 | 20.92 | 20.91 | 21.18 |

| LTE Band 12_Uplink frequency band : 699 to 716 MHz | | | | | | | | |
|--|------------|--------------|---------------------------|---------------------------|----------------------------|---------------------------|---------------------------|----------------------------|
| BW (MHz) | RB Size | RB Offset | Conducted power(dBm) | | | | | |
| | | | QPSK | | | 16QAM | | |
| | | | Channel (Low) 23035 | Channel (Mid) 23095 | Channel (High) 23155 | Channel (Low) 23035 | Channel (Mid) 23095 | Channel (High) 23155 |
| 5 | 1 | 0 | 22.89 | 22.95 | 23.20 | 22.20 | 22.36 | 22.22 |
| | 1 | 24 | 23.14 | 23.04 | 23.11 | 22.47 | 22.02 | 22.21 |
| | 12 | 6 | 22.08 | 22.24 | 22.19 | 21.09 | 21.38 | 21.07 |
| | 25 | 0 | 22.00 | 21.93 | 22.21 | 20.70 | 21.34 | 21.14 |

| LTE Band 12_Uplink frequency band : 699 to 716 MHz | | | | | | | | |
|--|------------|--------------|---------------------------|---------------------------|----------------------------|---------------------------|---------------------------|----------------------------|
| BW (MHz) | RB Size | RB Offset | Conducted power(dBm) | | | | | |
| | | | QPSK | | | 16QAM | | |
| | | | Channel (Low) 23060 | Channel (Mid) 23095 | Channel (High) 23130 | Channel (Low) 23060 | Channel (Mid) 23095 | Channel (High) 23130 |
| 10 | 1 | 0 | 22.93 | 22.96 | 23.05 | 22.18 | 22.26 | 22.21 |
| | 1 | 49 | 23.31 | 23.19 | 23.12 | 22.12 | 22.10 | 21.84 |
| | 25 | 12 | 22.03 | 22.04 | 22.08 | 20.99 | 21.09 | 21.12 |
| | 50 | 0 | 22.27 | 22.10 | 22.23 | 21.33 | 21.08 | 21.15 |

LTE Band 13

| LTE Band 13_Uplink frequency band : 777 to 787 MHz | | | | | | | | |
|--|------------|--------------|---------------------------|---------------------------|----------------------------|---------------------------|---------------------------|----------------------------|
| BW (MHz) | RB Size | RB Offset | Conducted power(dBm) | | | | | |
| | | | QPSK | | | 16 QAM | | |
| | | | Channel (Low) 23205 | Channel (Mid) 23230 | Channel (High) 23255 | Channel (Low) 23205 | Channel (Mid) 23230 | Channel (High) 23255 |
| 5 | 1 | 0 | 22.87 | 22.97 | 23.23 | 22.22 | 22.03 | 22.26 |
| | 1 | 24 | 23.05 | 23.10 | 23.55 | 22.16 | 22.30 | 21.89 |
| | 12 | 6 | 22.33 | 22.12 | 22.15 | 21.45 | 21.29 | 21.19 |
| | 25 | 0 | 22.24 | 22.13 | 22.11 | 20.77 | 21.22 | 21.16 |

| LTE Band 13_Uplink frequency band : 777 to 787 MHz | | | | | | | | |
|--|------------|--------------|----------------------|---------------------------|--|--------|---------------------------|--|
| BW (MHz) | RB Size | RB Offset | Conducted power(dBm) | | | | | |
| | | | QPSK | | | 16 QAM | | |
| | | | | Channel (Mid) 23230 | | | Channel (Mid) 23230 | |
| 10 | 1 | 0 | | 23.19 | | | 23.19 | |
| | 1 | 49 | | 23.26 | | | 23.26 | |
| | 25 | 12 | | 22.08 | | | 22.08 | |
| | 50 | 0 | | 22.22 | | | 22.22 | |

LTE Band 17

| LTE Band 17 _Uplink frequency band : 704 to 716 MHz | | | | | | | | |
|---|------------|--------------|----------------------|------------------|-------------------|------------------|------------------|-------------------|
| BW (MHz) | RB Size | RB Offset | Conducted power(dBm) | | | | | |
| | | | QPSK | | | 16QAM | | |
| | | | Channel (Low) | Channel (Mid) | Channel (High) | Channel (Low) | Channel (Mid) | Channel (High) |
| | | | 23755 | 23790 | 23825 | 23755 | 23790 | 23825 |
| 5 | 1 | 0 | 22.84 | 23.14 | 23.04 | 22.22 | 22.10 | 21.55 |
| | 1 | 24 | 23.14 | 23.15 | 23.07 | 22.23 | 22.23 | 21.94 |
| | 12 | 6 | 22.07 | 22.08 | 22.13 | 21.20 | 21.13 | 21.19 |
| | 25 | 0 | 22.07 | 22.11 | 22.06 | 21.15 | 21.12 | 21.19 |

| LTE Band 17_Uplink frequency band : 704 to 716 MHz | | | | | | | | |
|--|------------|--------------|----------------------|------------------|-------------------|------------------|------------------|-------------------|
| BW (MHz) | RB Size | RB Offset | Conducted power(dBm) | | | | | |
| | | | QPSK | | | 16QAM | | |
| | | | Channel (Low) | Channel (Mid) | Channel (High) | Channel (Low) | Channel (Mid) | Channel (High) |
| | | | 23780 | 23790 | 23800 | 23780 | 23790 | 23800 |
| 10 | 1 | 0 | 22.76 | 22.68 | 23.07 | 21.62 | 21.83 | 22.05 |
| | 1 | 49 | 23.17 | 23.06 | 23.08 | 22.40 | 21.62 | 22.03 |
| | 25 | 12 | 22.14 | 22.14 | 21.94 | 21.13 | 21.15 | 20.97 |
| | 50 | 0 | 22.11 | 22.15 | 22.19 | 21.04 | 21.05 | 21.05 |

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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 Lim- itation (dBm) | Comments |
|---------------|----------|-----------------------------|-------|-------|-------------------------------------|----------|
| | | 9262 | 9400 | 9538 | | |
| HSDPA (B2) | 1 | 24.03 | 23.96 | 24.10 | 20.3dBm – 25.7dBm | Pass |
| | 2 | 23.74 | 23.93 | 24.09 | 20.3dBm – 25.7dBm | Pass |
| | 3 | 23.55 | 23.51 | 23.57 | 19.8dBm – 25.7dBm | Pass |
| | 4 | 23.62 | 23.52 | 23.69 | 19.8dBm – 25.7dBm | Pass |

| Mode | Sub-test | Avg. Power (dBm) Channel | | | Power Class 3 Lim- itation (dBm) | Comments |
|---------------|----------|-----------------------------|-------|-------|-------------------------------------|----------|
| | | 1312 | 1413 | 1513 | | |
| HSDPA (B4) | 1 | 23.91 | 24.32 | 24.36 | 20.3dBm – 25.7dBm | Pass |
| | 2 | 24.05 | 24.35 | 24.11 | 20.3dBm – 25.7dBm | Pass |
| | 3 | 23.45 | 23.84 | 23.87 | 19.8dBm – 25.7dBm | Pass |
| | 4 | 23.50 | 23.88 | 23.93 | 19.8dBm – 25.7dBm | Pass |

| Mode | Sub-test | Avg. Power (dBm) Channel | | | Power Class 3 Lim- itation (dBm) | Comments |
|---------------|----------|-----------------------------|-------|-------|-------------------------------------|----------|
| | | 4132 | 4183 | 4233 | | |
| HSDPA (B5) | 1 | 23.95 | 24.12 | 24.49 | 20.3dBm – 25.7dBm | Pass |
| | 2 | 24.09 | 24.15 | 24.24 | 20.3dBm – 25.7dBm | Pass |
| | 3 | 23.49 | 23.64 | 24.00 | 19.8dBm – 25.7dBm | Pass |
| | 4 | 23.54 | 23.68 | 24.06 | 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) | | | Power Class 3 Limitation (dBm) | Comments |
|-----------|----------|------------------|-------|-------|--------------------------------|----------|
| | | 9262 | 9400 | 9538 | | |
| HSUPA(B2) | 1 | 23.78 | 24.05 | 24.18 | 18.8dBm – 25.7dBm | Pass |
| | 2 | 21.83 | 22.12 | 22.22 | 16.8dBm – 25.7dBm | Pass |
| | 3 | 22.84 | 23.07 | 23.26 | 17.8dBm – 25.7dBm | Pass |
| | 4 | 21.96 | 22.17 | 22.26 | 16.8dBm – 25.7dBm | Pass |
| | 5 | 23.67 | 23.91 | 24.09 | 18.8dBm – 25.7dBm | Pass |

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| Mode | Sub-test | Avg. Power (dBm) Channel | | | Power Class 3 Lim- itation (dBm) | Comments |
|-----------------------|----------|-----------------------------|--------------|-------|-------------------------------------|-------------|
| | | 1312 | 1413 | 1513 | | |
| HSDPA (B4) | 1 | 24.08 | 24.39 | 24.16 | 20.3dBm – 25.7dBm | Pass |
| | 2 | 22.14 | 22.47 | 22.20 | 20.3dBm – 25.7dBm | Pass |
| | 3 | 23.12 | 23.45 | 23.24 | 19.8dBm – 25.7dBm | Pass |
| | 4 | 22.19 | 22.53 | 22.28 | 19.8dBm – 25.7dBm | Pass |
| | 5 | 23.94 | 24.22 | 24.05 | 19.8dBm – 25.7dBm | Pass |

| Mode | Sub-test | Avg. Power (dBm) Channel | | | Power Class 3 Lim- itation (dBm) | Comments |
|------------------|----------|-----------------------------|-------|--------------|-------------------------------------|-------------|
| | | 4132 | 4183 | 4233 | | |
| HSUPA(B5) | 1 | 24.12 | 24.19 | 24.29 | 18.8dBm – 25.7dBm | Pass |
| | 2 | 22.18 | 22.27 | 22.33 | 16.8dBm – 25.7dBm | Pass |
| | 3 | 23.16 | 23.25 | 23.37 | 17.8dBm – 25.7dBm | Pass |
| | 4 | 22.23 | 22.33 | 22.41 | 16.8dBm – 25.7dBm | Pass |
| | 5 | 23.98 | 24.02 | 24.18 | 18.8dBm – 25.7dBm | Pass |

WCDMA/HSDPA/HSUPA band II, IV, V

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

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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.

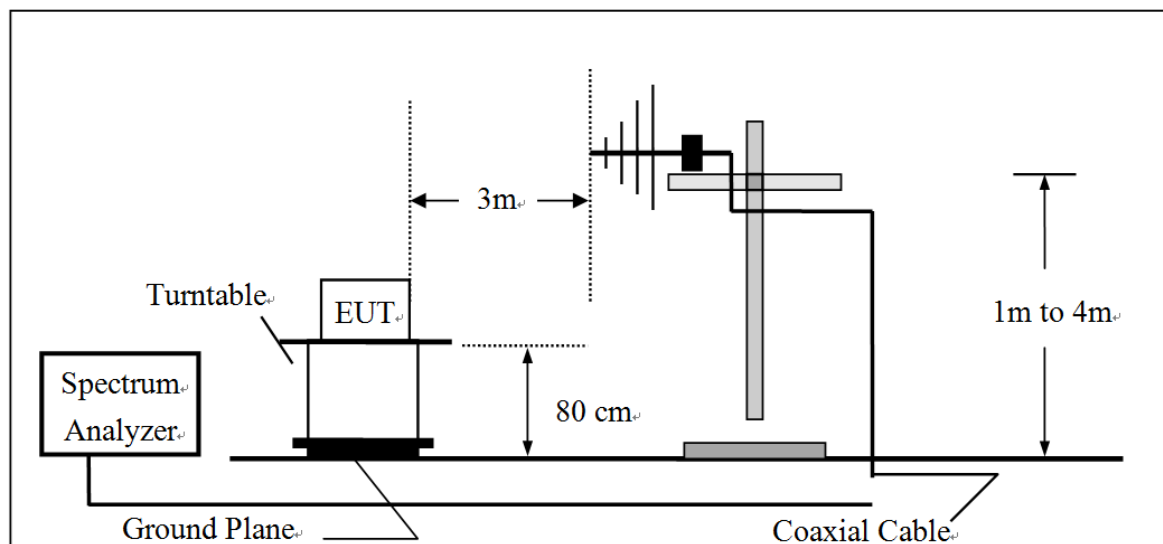
FCC 27.50(c) (9) Control stations and mobile stations are limited to 30 watts ERP.

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

7.2. Test SET-UP

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



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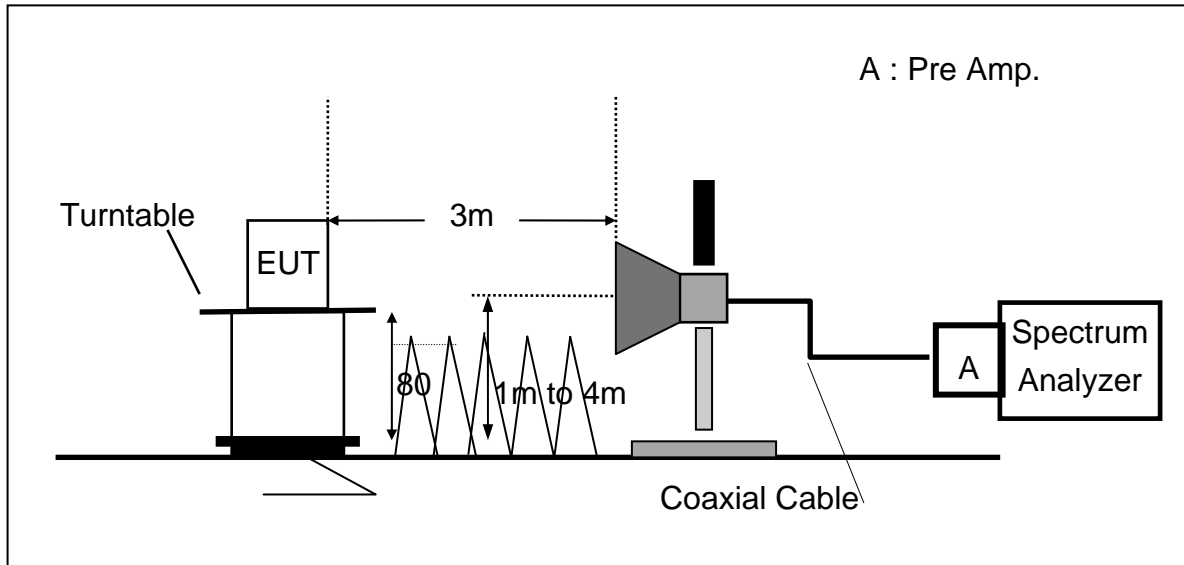
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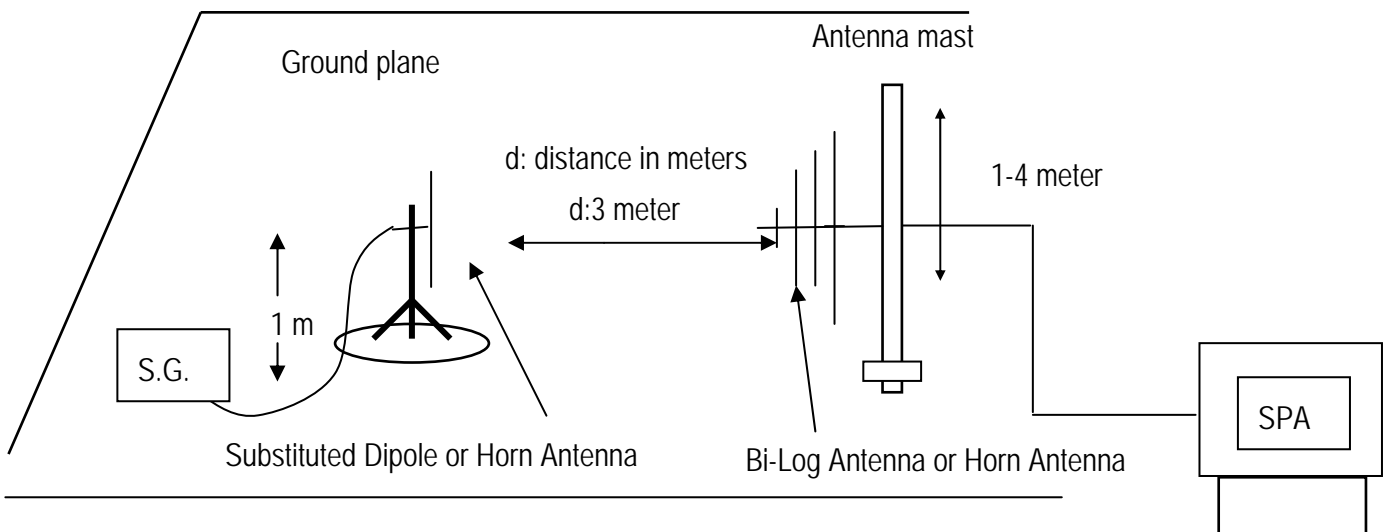
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(B) Radiated Power Test Set-UP Frequency Over 1 GHz



(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. $ERP = S.G. \text{ output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$
7. $ERP = S.G. \text{ output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$
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 $VBW \geq 3 \times RBW$.
 - (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 $\approx 1 \sim 5\%$ 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 = $601 \times 10^{-3} = 6s$).

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 $10 \times \log(TBW/RBW)$, 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. |
| EMI Test Receiver | R&S | ESCI7 | 100760 | 05/10/2016 | 05/09/2017 |
| Spectrum Analyzer | Agilent | E4446A | MY51100003 | 01/29/2016 | 01/28/2017 |
| Loop Antenna | ETS.LINDGREN | 6502 | 148045 | 09/07/2015 | 09/06/2016 |
| Bilog Antenna | SCHWAZBECK | VULB9168 | 378 | 12/14/2015 | 12/13/2016 |
| Bi-log Antenna | SCHWAZBECK | VULB9168 | 300 | 12/12/2015 | 12/11/2016 |
| Horn Antenna | SCHWAZBECK | BBHA9120D | 1441 | 08/10/2015 | 08/09/2016 |
| Horn Antenna | SCHWAZBECK | BBHA9170 | 185 | 07/18/2016 | 07/17/2017 |
| Pre-Amplifier | Agilent | 8447D | 2944A07676 | 01/02/2016 | 01/01/2017 |
| Pre-Amplifier | EMC Instruments Corp. | EMC0126530 | 980038 | 01/02/2016 | 01/01/2017 |
| Turn Table | HD | DT420 | N/A | N.C.R | N.C.R |
| Antenna Tower | ChamPro | AM-BS-4500-B | 060776-ABS | N.C.R | N.C.R |
| Controller | ChamPro | EM1000 | 60776 | N.C.R | N.C.R |
| Low Loss Cable | Huber Suhner | 966_RX | 9 | 01/02/2016 | 01/01/2017 |
| 3m Site NSA | SGS | 966 chamber | N/A | 07/01/2016 | 06/30/2017 |
| Low Loss Cable | Huber Suhner | 966 TX | 1 | 01/02/2016 | 01/01/2017 |
| Radio Communication Analyzer | R&S | CMU200 | 102189 | 02/11/2016 | 02/10/2017 |
| Radio Communication Analyzer | Anritsu | MT8820C | 6200995019 | 09/25/2015 | 09/24/2016 |
| Radio Communication Analyzer | Anritsu | MT8820C | 6201465317 | 12/10/2015 | 12/09/2016 |
| Signal Generator | Agilent | E4438C | MY45093613 | 07/07/2016 | 07/06/2017 |
| Filter 800-1000 | Micro-Tronics | EWT | M1 | 01/02/2016 | 01/01/2017 |
| Filter 1800-2000 | Micro-Tronics | EWT | M1 | 01/02/2016 | 01/01/2017 |
| 1GHz High Pass Filter | Micro-Tronics | HPM50108 | 32 | 01/02/2016 | 01/01/2017 |
| 2GHz High Pass Filter | Micro-Tronics | HPM50110 | 36 | 01/02/2016 | 01/01/2017 |

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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 | ERP | Limit |
| | MHz | | V/H | dBm | dBd | dB | dBm | dBm |
| GPRS 850 | 824.2 | 128 | V | 17.68 | 3.31 | -2.92 | 18.06 | 38.45 |
| | | | H | 23.16 | 3.31 | -2.92 | 23.54 | 38.45 |
| | 836.6 | 190 | V | 18.91 | 3.29 | -2.96 | 19.24 | 38.45 |
| | | | H | 23.16 | 3.29 | -2.96 | 23.48 | 38.45 |
| | 848.8 | 251 | V | 19.74 | 3.27 | -3.00 | 20.01 | 38.45 |
| | | | H | 23.60 | 3.27 | -3.00 | 23.86 | 38.45 |

| 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 |
| EDGE 850 | 824.2 | 128 | V | 15.65 | 3.31 | -2.92 | 16.03 | 38.45 |
| | | | H | 20.24 | 3.31 | -2.92 | 20.62 | 38.45 |
| | 836.6 | 190 | V | 15.86 | 3.29 | -2.96 | 16.18 | 38.45 |
| | | | H | 19.41 | 3.29 | -2.96 | 19.74 | 38.45 |
| | 848.8 | 251 | V | 14.78 | 3.27 | -3.00 | 15.04 | 38.45 |
| | | | H | 19.05 | 3.27 | -3.00 | 19.31 | 38.45 |

Remark: The RBW,VBW of SPA for frequency RBW=300KHz, 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 |
| GPRS 1900 | 1850.2 | 512 | V | 12.40 | 9.94 | -4.46 | 17.88 | 33.00 |
| | | | H | 20.51 | 9.94 | -4.46 | 25.99 | 33.00 |
| | 1880.0 | 661 | V | 18.26 | 10.03 | -4.51 | 23.79 | 33.00 |
| | | | H | 21.49 | 10.03 | -4.51 | 27.02 | 33.00 |
| | 1909.8 | 810 | V | 16.37 | 10.13 | -4.55 | 21.94 | 33.00 |
| | | | H | 20.21 | 10.13 | -4.55 | 25.79 | 33.00 |

| 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 |
| EDGE 1900 | 1850.2 | 512 | V | 17.44 | 9.94 | -4.46 | 22.92 | 33.00 |
| | | | H | 19.56 | 9.94 | -4.46 | 25.04 | 33.00 |
| | 1880.0 | 661 | V | 18.61 | 10.03 | -4.51 | 24.13 | 33.00 |
| | | | H | 19.93 | 10.03 | -4.51 | 25.46 | 33.00 |
| | 1909.8 | 810 | V | 15.21 | 10.13 | -4.55 | 20.78 | 33.00 |
| | | | H | 18.01 | 10.13 | -4.55 | 23.59 | 33.00 |

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

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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 |
| CDMA 2000 Cellular BC0 | 824.7 | 1013 | V | 13.58 | 3.30 | -2.93 | 13.96 | 38.45 |
| | | | H | 14.98 | 3.30 | -2.93 | 15.36 | 38.45 |
| | 836.52 | 384 | V | 12.65 | 3.29 | -2.96 | 12.97 | 38.45 |
| | | | H | 14.49 | 3.29 | -2.96 | 14.81 | 38.45 |
| | 848.31 | 777 | V | 12.97 | 3.27 | -3.00 | 13.24 | 38.45 |
| | | | H | 15.53 | 3.27 | -3.00 | 15.80 | 38.45 |

| 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 |
| EVDO 2000 Cellular BC0 | 824.7 | 1013 | V | 13.27 | 3.30 | -2.93 | 13.65 | 38.45 |
| | | | H | 14.14 | 3.30 | -2.93 | 14.51 | 38.45 |
| | 836.52 | 384 | V | 11.67 | 3.29 | -2.96 | 11.99 | 38.45 |
| | | | H | 13.47 | 3.29 | -2.96 | 13.79 | 38.45 |
| | 848.31 | 777 | V | 11.86 | 3.27 | -3.00 | 12.12 | 38.45 |
| | | | H | 15.13 | 3.27 | -3.00 | 15.40 | 38.45 |

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

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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 |
| CDMA 2000 PCS BC1 | 824.7 | 1013 | V | 11.87 | 9.94 | -4.46 | 17.36 | 33.00 |
| | | | H | 15.62 | 9.94 | -4.46 | 21.10 | 33.00 |
| | 836.52 | 384 | V | 9.61 | 10.03 | -4.51 | 15.13 | 33.00 |
| | | | H | 15.27 | 10.03 | -4.51 | 20.80 | 33.00 |
| | 848.31 | 777 | V | 9.78 | 10.13 | -4.55 | 15.36 | 33.00 |
| | | | H | 14.94 | 10.13 | -4.55 | 20.51 | 33.00 |

| 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 |
| EVDO 2000 PCS BC1 | 824.7 | 1013 | V | 9.57 | 9.94 | -4.46 | 15.05 | 33.00 |
| | | | H | 14.68 | 9.94 | -4.46 | 20.16 | 33.00 |
| | 836.52 | 384 | V | 8.55 | 10.03 | -4.51 | 14.08 | 33.00 |
| | | | H | 14.22 | 10.03 | -4.51 | 19.75 | 33.00 |
| | 848.31 | 777 | V | 8.23 | 10.13 | -4.55 | 13.80 | 33.00 |
| | | | H | 13.74 | 10.12 | -4.55 | 19.32 | 33.00 |

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

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| EUT | | | Measurement | | | | | |
|----------------|-----------------------|------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band | Fundamental Frequency | CH | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP | Limit |
| WCDMA B2 | MHz | | V/H | dBm | dBi | dB | dBm | dBm |
| | 1852.4 | 9262 | V | 14.69 | 9.95 | -4.46 | 20.18 | 33.00 |
| | | | H | 18.18 | 9.95 | -4.46 | 23.66 | 33.00 |
| | 1880.0 | 9400 | V | 17.61 | 10.04 | -4.51 | 23.13 | 33.00 |
| | | | H | 20.89 | 10.03 | -4.51 | 26.42 | 33.00 |
| | 1907.6 | 9538 | V | 14.62 | 10.12 | -4.55 | 20.19 | 33.00 |
| | | | H | 18.92 | 10.12 | -4.55 | 24.50 | 33.00 |

| 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 |
| HSDPA B2 | 1852.4 | 9262 | V | 14.64 | 9.95 | -4.46 | 20.12 | 33.00 |
| | | | H | 17.31 | 9.95 | -4.46 | 22.79 | 33.00 |
| | 1880.0 | 9400 | V | 15.99 | 10.03 | -4.51 | 21.51 | 33.00 |
| | | | H | 18.39 | 10.03 | -4.51 | 23.91 | 33.00 |
| | 1907.6 | 9538 | V | 16.04 | 10.12 | -4.55 | 21.61 | 33.00 |
| | | | H | 16.77 | 10.12 | -4.55 | 22.34 | 33.00 |

| 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 |
| HSUPA B2 | 1852.4 | 9262 | V | 13.91 | 9.95 | -4.46 | 19.39 | 33.00 |
| | | | H | 16.59 | 9.95 | -4.46 | 22.07 | 33.00 |
| | 1880.0 | 9400 | V | 12.87 | 10.03 | -4.51 | 18.39 | 33.00 |
| | | | H | 17.68 | 10.03 | -4.51 | 23.20 | 33.00 |
| | 1907.6 | 9538 | V | 14.20 | 10.12 | -4.55 | 19.77 | 33.00 |
| | | | H | 17.71 | 10.12 | -4.55 | 23.28 | 33.00 |

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 5MHz , 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 |
| WCDMA B4 | 1712.4 | 1312 | V | 16.81 | 9.48 | -4.31 | 21.98 | 30.00 |
| | | | H | 22.79 | 9.48 | -4.31 | 27.97 | 30.00 |
| | 1732.6 | 1413 | V | 17.06 | 9.55 | -4.31 | 22.30 | 30.00 |
| | | | H | 21.09 | 9.55 | -4.31 | 26.33 | 30.00 |
| | 1752.6 | 1513 | V | 16.85 | 9.62 | -4.34 | 22.14 | 30.00 |
| | | | H | 19.95 | 9.62 | -4.34 | 25.23 | 30.00 |

| 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 |
| HSDPA B4 | 1712.4 | 1312 | V | 16.75 | 9.48 | -4.31 | 21.92 | 30.00 |
| | | | H | 20.48 | 9.48 | -4.31 | 25.65 | 30.00 |
| | 1732.6 | 1413 | V | 17.33 | 9.55 | -4.31 | 22.57 | 30.00 |
| | | | H | 19.47 | 9.55 | -4.31 | 24.71 | 30.00 |
| | 1752.6 | 1513 | V | 15.86 | 9.62 | -4.34 | 21.14 | 30.00 |
| | | | H | 18.58 | 9.62 | -4.34 | 23.86 | 30.00 |

| 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 |
| HSUPA B4 | 1712.4 | 1312 | V | 15.40 | 9.48 | -4.31 | 20.57 | 30.00 |
| | | | H | 19.38 | 9.48 | -4.31 | 24.55 | 30.00 |
| | 1732.6 | 1413 | V | 15.59 | 9.55 | -4.31 | 20.83 | 30.00 |
| | | | H | 19.09 | 9.55 | -4.31 | 24.33 | 30.00 |
| | 1752.6 | 1513 | V | 15.74 | 9.62 | -4.34 | 21.02 | 30.00 |
| | | | H | 17.83 | 9.62 | -4.33 | 23.11 | 30.00 |

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 5MHz , 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 |
| WCDMA B5 | 826.4 | 4132 | V | 13.62 | 3.30 | -2.93 | 13.99 | 38.45 |
| | | | H | 20.25 | 3.30 | -2.93 | 20.62 | 38.45 |
| | 836.6 | 4183 | V | 16.09 | 3.29 | -2.97 | 16.40 | 38.45 |
| | | | H | 18.33 | 3.29 | -2.96 | 18.66 | 38.45 |
| | 846.6 | 4233 | V | 14.63 | 3.27 | -3.00 | 14.90 | 38.45 |
| | | | H | 17.24 | 3.27 | -3.00 | 17.52 | 38.45 |

| 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 |
| HSDPA B5 | 826.4 | 4132 | V | 13.30 | 3.30 | -2.93 | 13.67 | 38.45 |
| | | | H | 19.26 | 3.30 | -2.93 | 19.64 | 38.45 |
| | 836.6 | 4183 | V | 11.78 | 3.29 | -2.96 | 12.10 | 38.45 |
| | | | H | 16.15 | 3.29 | -2.96 | 16.48 | 38.45 |
| | 846.6 | 4233 | V | 13.51 | 3.27 | -3.00 | 13.79 | 38.45 |
| | | | H | 17.86 | 3.27 | -3.00 | 18.13 | 38.45 |

| 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 |
| HSUPA B5 | 826.4 | 4132 | V | 13.26 | 3.30 | -2.93 | 13.64 | 38.45 |
| | | | H | 16.52 | 3.30 | -2.93 | 16.89 | 38.45 |
| | 836.6 | 4183 | V | 12.66 | 3.29 | -2.96 | 12.99 | 38.45 |
| | | | H | 16.02 | 3.29 | -2.96 | 16.34 | 38.45 |
| | 846.6 | 4233 | V | 12.98 | 3.27 | -3.00 | 13.25 | 38.45 |
| | | | H | 17.32 | 3.27 | -3.00 | 17.60 | 38.45 |

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 5MHz , 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 |
| BAND 2 BW: 1.4M QPSK RB: 1,0 | 1850.7 | 18607 | V | 15.74 | 9.95 | -4.46 | 21.22 | 33.01 |
| | | | H | 18.16 | 9.95 | -4.46 | 23.64 | 33.01 |
| | 1880.0 | 18900 | V | 16.78 | 10.03 | -4.51 | 22.30 | 33.01 |
| | | | H | 19.93 | 10.03 | -4.51 | 25.45 | 33.01 |
| | 1909.3 | 19193 | V | 15.54 | 10.12 | -4.55 | 21.11 | 33.01 |
| | | | H | 17.76 | 10.12 | -4.55 | 23.33 | 33.01 |
| BAND 2 BW: 1.4M QPSK RB: 1,5 | 1850.7 | 18607 | V | 15.67 | 9.94 | -4.46 | 21.15 | 33.01 |
| | | | H | 18.08 | 9.94 | -4.46 | 23.56 | 33.01 |
| | 1880.0 | 18900 | V | 16.58 | 10.03 | -4.51 | 22.10 | 33.01 |
| | | | H | 19.82 | 10.03 | -4.51 | 25.34 | 33.01 |
| | 1909.3 | 19193 | V | 15.15 | 10.12 | -4.55 | 20.72 | 33.01 |
| | | | H | 17.42 | 10.12 | -4.55 | 22.99 | 33.01 |
| BAND 2 BW: 1.4M 16QAM RB: 1,0 | 1850.7 | 18607 | V | 15.84 | 9.95 | -4.46 | 21.32 | 33.01 |
| | | | H | 18.23 | 9.95 | -4.46 | 23.72 | 33.01 |
| | 1880.0 | 18900 | V | 16.99 | 10.03 | -4.51 | 22.51 | 33.01 |
| | | | H | 20.17 | 10.03 | -4.51 | 25.70 | 33.01 |
| | 1909.3 | 19193 | V | 15.65 | 10.12 | -4.55 | 21.23 | 33.01 |
| | | | H | 17.88 | 10.12 | -4.55 | 23.45 | 33.01 |
| BAND 2 BW: 1.4M 16QAM RB: 1,5 | 1850.7 | 18607 | V | 15.81 | 9.94 | -4.46 | 21.28 | 33.01 |
| | | | H | 18.18 | 9.94 | -4.46 | 23.66 | 33.01 |
| | 1880.0 | 18900 | V | 16.81 | 10.03 | -4.51 | 22.34 | 33.01 |
| | | | H | 20.03 | 10.03 | -4.51 | 25.55 | 33.01 |
| | 1909.3 | 19193 | V | 15.01 | 10.12 | -4.55 | 20.58 | 33.01 |
| | | | H | 17.53 | 10.12 | -4.55 | 23.10 | 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 |
| BAND 2 BW: 3M QPSK RB: 1,0 | 1851.5 | 18615 | V | 16.28 | 9.95 | -4.46 | 21.76 | 33.01 |
| | | | H | 18.71 | 9.95 | -4.46 | 24.19 | 33.01 |
| | 1880.0 | 18900 | V | 17.21 | 10.03 | -4.50 | 22.73 | 33.01 |
| | | | H | 20.28 | 10.03 | -4.50 | 25.80 | 33.01 |
| | 1908.5 | 19185 | V | 16.49 | 10.11 | -4.54 | 22.06 | 33.01 |
| | | | H | 18.57 | 10.11 | -4.55 | 24.14 | 33.01 |
| BAND 2 BW: 3M QPSK RB: 1,14 | 1851.5 | 18615 | V | 15.69 | 9.94 | -4.46 | 21.17 | 33.01 |
| | | | H | 18.41 | 9.94 | -4.46 | 23.89 | 33.01 |
| | 1880.0 | 18900 | V | 16.68 | 10.03 | -4.51 | 22.21 | 33.01 |
| | | | H | 19.91 | 10.03 | -4.51 | 25.44 | 33.01 |
| | 1908.5 | 19185 | V | 15.45 | 10.12 | -4.55 | 21.02 | 33.01 |
| | | | H | 17.64 | 10.12 | -4.55 | 23.22 | 33.01 |
| BAND 2 BW: 3M 16QAM RB: 1,0 | 1851.5 | 18615 | V | 16.24 | 9.95 | -4.46 | 21.72 | 33.01 |
| | | | H | 18.86 | 9.95 | -4.46 | 24.34 | 33.01 |
| | 1880.0 | 18900 | V | 17.20 | 10.02 | -4.50 | 22.72 | 33.01 |
| | | | H | 20.43 | 10.03 | -4.50 | 25.95 | 33.01 |
| | 1908.5 | 19185 | V | 16.62 | 10.11 | -4.55 | 22.18 | 33.01 |
| | | | H | 18.69 | 10.11 | -4.55 | 24.26 | 33.01 |
| BAND 2 BW: 3M 16QAM RB: 1,14 | 1851.5 | 18615 | V | 15.76 | 9.94 | -4.46 | 21.24 | 33.01 |
| | | | H | 18.30 | 9.94 | -4.46 | 23.78 | 33.01 |
| | 1880.0 | 18900 | V | 16.81 | 10.03 | -4.51 | 22.33 | 33.01 |
| | | | H | 20.11 | 10.03 | -4.51 | 25.63 | 33.01 |
| | 1908.5 | 19185 | V | 15.30 | 10.12 | -4.55 | 20.88 | 33.01 |
| | | | H | 17.52 | 10.12 | -4.55 | 23.09 | 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 |
| BAND 2 BW: 5M QPSK RB: 1,0 | 1852.5 | 18625 | V | 15.82 | 9.95 | -4.46 | 21.31 | 33.01 |
| | | | H | 18.63 | 9.95 | -4.46 | 24.11 | 33.01 |
| | 1880.0 | 18900 | V | 17.42 | 10.02 | -4.50 | 22.94 | 33.01 |
| | | | H | 20.29 | 10.02 | -4.50 | 25.81 | 33.01 |
| | 1907.5 | 19175 | V | 17.09 | 10.11 | -4.54 | 22.66 | 33.01 |
| | | | H | 19.09 | 10.11 | -4.54 | 24.66 | 33.01 |
| BAND 2 BW: 5M QPSK RB: 1,24 | 1852.5 | 18625 | V | 15.05 | 9.95 | -4.46 | 20.54 | 33.01 |
| | | | H | 18.07 | 9.95 | -4.46 | 23.55 | 33.01 |
| | 1880.0 | 18900 | V | 16.58 | 10.04 | -4.51 | 22.10 | 33.01 |
| | | | H | 19.75 | 10.04 | -4.51 | 25.28 | 33.01 |
| | 1907.5 | 19175 | V | 15.54 | 10.12 | -4.55 | 21.12 | 33.01 |
| | | | H | 17.75 | 10.12 | -4.55 | 23.32 | 33.01 |
| BAND 2 BW: 5M 16QAM RB: 1,0 | 1852.5 | 18625 | V | 16.01 | 9.95 | -4.46 | 21.49 | 33.01 |
| | | | H | 18.86 | 9.95 | -4.46 | 24.35 | 33.01 |
| | 1880.0 | 18900 | V | 17.53 | 10.02 | -4.50 | 23.05 | 33.01 |
| | | | H | 20.42 | 10.02 | -4.50 | 25.94 | 33.01 |
| | 1907.5 | 19175 | V | 17.20 | 10.11 | -4.54 | 22.77 | 33.01 |
| | | | H | 19.16 | 10.11 | -4.54 | 24.72 | 33.01 |
| BAND 2 BW: 5M 16QAM RB: 1,24 | 1852.5 | 18625 | V | 15.12 | 9.95 | -4.46 | 20.60 | 33.01 |
| | | | H | 18.16 | 9.95 | -4.46 | 23.64 | 33.01 |
| | 1880.0 | 18900 | V | 16.82 | 10.04 | -4.51 | 22.35 | 33.01 |
| | | | H | 19.99 | 10.04 | -4.51 | 25.51 | 33.01 |
| | 1907.5 | 19175 | V | 15.42 | 10.12 | -4.55 | 21.00 | 33.01 |
| | | | H | 17.54 | 10.12 | -4.55 | 23.12 | 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 |
| BAND 2 BW: 10M QPSK RB: 1,0 | 1855.0 | 18650 | V | 15.63 | 9.95 | -4.46 | 21.11 | 33.01 |
| | | | H | 18.69 | 9.95 | -4.46 | 24.17 | 33.01 |
| | 1880.0 | 18900 | V | 17.47 | 10.01 | -4.50 | 22.99 | 33.01 |
| | | | H | 20.28 | 10.02 | -4.50 | 25.80 | 33.01 |
| | 1905.0 | 19150 | V | 16.86 | 10.09 | -4.54 | 22.41 | 33.01 |
| | | | H | 18.98 | 10.09 | -4.54 | 24.54 | 33.01 |
| BAND 2 BW: 10M QPSK RB: 1,49 | 1855.0 | 18650 | V | 14.38 | 9.96 | -4.47 | 19.87 | 33.01 |
| | | | H | 17.80 | 9.96 | -4.47 | 23.29 | 33.01 |
| | 1880.0 | 18900 | V | 15.87 | 10.04 | -4.51 | 21.40 | 33.01 |
| | | | H | 19.24 | 10.04 | -4.51 | 24.77 | 33.01 |
| | 1905.0 | 19150 | V | 15.53 | 10.12 | -4.55 | 21.10 | 33.01 |
| | | | H | 17.73 | 10.12 | -4.55 | 23.30 | 33.01 |
| BAND 2 BW: 10M 16QAM RB: 1,0 | 1855.0 | 18650 | V | 15.89 | 9.95 | -4.46 | 21.37 | 33.01 |
| | | | H | 18.85 | 9.95 | -4.46 | 24.33 | 33.01 |
| | 1880.0 | 18900 | V | 17.76 | 10.02 | -4.50 | 23.28 | 33.01 |
| | | | H | 20.64 | 10.01 | -4.50 | 26.15 | 33.01 |
| | 1905.0 | 19150 | V | 16.94 | 10.09 | -4.54 | 22.50 | 33.01 |
| | | | H | 19.29 | 10.09 | -4.54 | 24.85 | 33.01 |
| BAND 2 BW: 10M 16QAM RB: 1,49 | 1855.0 | 18650 | V | 14.42 | 9.97 | -4.47 | 19.92 | 33.01 |
| | | | H | 17.96 | 9.96 | -4.47 | 23.45 | 33.01 |
| | 1880.0 | 18900 | V | 16.11 | 10.04 | -4.51 | 21.64 | 33.01 |
| | | | H | 19.53 | 10.04 | -4.51 | 25.06 | 33.01 |
| | 1905.0 | 19150 | V | 15.85 | 10.12 | -4.55 | 21.42 | 33.01 |
| | | | H | 18.05 | 10.12 | -4.55 | 23.62 | 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 |
| BAND 2 BW: 15M QPSK RB: 1,0 | 1857.5 | 18675 | V | 15.73 | 9.94 | -4.46 | 21.21 | 33.01 |
| | | | H | 19.23 | 9.95 | -4.46 | 24.71 | 33.01 |
| | 1880.0 | 18900 | V | 15.60 | 10.01 | -4.50 | 21.11 | 33.01 |
| | | | H | 20.20 | 10.01 | -4.50 | 25.71 | 33.01 |
| | 1902.5 | 19125 | V | 14.49 | 10.08 | -4.53 | 20.04 | 33.01 |
| | | | H | 18.52 | 10.08 | -4.53 | 24.07 | 33.01 |
| BAND 2 BW: 15M QPSK RB: 1,74 | 1857.5 | 18675 | V | 14.92 | 9.98 | -4.48 | 20.42 | 33.01 |
| | | | H | 18.36 | 9.98 | -4.48 | 23.86 | 33.01 |
| | 1880.0 | 18900 | V | 13.76 | 10.05 | -4.52 | 19.29 | 33.01 |
| | | | H | 18.87 | 10.05 | -4.52 | 24.41 | 33.01 |
| | 1902.5 | 19125 | V | 14.20 | 10.12 | -4.55 | 19.77 | 33.01 |
| | | | H | 18.35 | 10.12 | -4.55 | 23.93 | 33.01 |
| BAND 2 BW: 15M 16QAM RB: 1,0 | 1857.5 | 18675 | V | 15.93 | 9.95 | -4.46 | 21.41 | 33.01 |
| | | | H | 19.48 | 9.95 | -4.46 | 24.96 | 33.01 |
| | 1880.0 | 18900 | V | 15.84 | 10.01 | -4.50 | 21.35 | 33.01 |
| | | | H | 20.45 | 10.01 | -4.50 | 25.96 | 33.01 |
| | 1902.5 | 19125 | V | 14.25 | 10.08 | -4.53 | 19.80 | 33.01 |
| | | | H | 17.96 | 10.08 | -4.53 | 23.51 | 33.01 |
| BAND 2 BW: 15M 16QAM RB: 1,74 | 1857.5 | 18675 | V | 15.10 | 9.98 | -4.48 | 20.60 | 33.01 |
| | | | H | 18.52 | 9.98 | -4.48 | 24.02 | 33.01 |
| | 1880.0 | 18900 | V | 14.06 | 10.05 | -4.52 | 19.59 | 33.01 |
| | | | H | 19.17 | 10.05 | -4.52 | 24.71 | 33.01 |
| | 1902.5 | 19125 | V | 14.55 | 10.12 | -4.55 | 20.12 | 33.01 |
| | | | H | 18.70 | 10.12 | -4.55 | 24.27 | 33.01 |

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 |
| BAND 2 BW: 20M QPSK RB: 1,0 | 1860.0 | 18700 | V | 14.29 | 9.94 | -4.46 | 19.77 | 33.01 |
| | | | H | 18.95 | 9.94 | -4.46 | 24.43 | 33.01 |
| | 1880.0 | 18900 | V | 15.16 | 10.00 | -4.49 | 20.68 | 33.01 |
| | | | H | 19.60 | 10.00 | -4.49 | 25.11 | 33.01 |
| | 1900.0 | 19100 | V | 14.04 | 10.07 | -4.52 | 19.58 | 33.01 |
| | | | H | 18.15 | 10.07 | -4.52 | 23.69 | 33.01 |
| BAND 2 BW: 20M QPSK RB: 1,99 | 1860.0 | 18700 | V | 14.79 | 9.99 | -4.49 | 20.30 | 33.01 |
| | | | H | 18.93 | 9.99 | -4.49 | 24.44 | 33.01 |
| | 1880.0 | 18900 | V | 13.50 | 10.06 | -4.52 | 19.04 | 33.01 |
| | | | H | 18.43 | 10.06 | -4.52 | 23.96 | 33.01 |
| | 1900.0 | 19100 | V | 14.21 | 10.12 | -4.55 | 19.79 | 33.01 |
| | | | H | 18.52 | 10.12 | -4.55 | 24.09 | 33.01 |
| BAND 2 BW: 20M 16QAM RB: 1,0 | 1860.0 | 18700 | V | 14.41 | 9.95 | -4.47 | 19.90 | 33.01 |
| | | | H | 19.18 | 9.94 | -4.46 | 24.66 | 33.01 |
| | 1880.0 | 18900 | V | 15.39 | 10.01 | -4.50 | 20.90 | 33.01 |
| | | | H | 19.85 | 10.01 | -4.50 | 25.37 | 33.01 |
| | 1900.0 | 19100 | V | 14.13 | 10.08 | -4.53 | 19.68 | 33.01 |
| | | | H | 18.35 | 10.08 | -4.53 | 23.89 | 33.01 |
| BAND 2 BW: 20M 16QAM RB: 1,99 | 1860.0 | 18700 | V | 15.10 | 9.99 | -4.49 | 20.61 | 33.01 |
| | | | H | 19.24 | 9.99 | -4.49 | 24.74 | 33.01 |
| | 1880.0 | 18900 | V | 13.84 | 10.06 | -4.52 | 19.38 | 33.01 |
| | | | H | 18.74 | 10.06 | -4.52 | 24.28 | 33.01 |
| | 1900.0 | 19100 | V | 14.58 | 10.12 | -4.55 | 20.15 | 33.01 |
| | | | H | 18.85 | 10.12 | -4.55 | 24.42 | 33.01 |

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 |
| BAND 4 BW: 1.4M/ QPSK RB: 1,0 | 1710.7 | 19957 | V | 14.01 | 9.48 | -4.31 | 19.18 | 30.00 |
| | | | H | 18.98 | 9.48 | -4.31 | 24.15 | 30.00 |
| | 1732.5 | 20175 | V | 14.36 | 9.54 | -4.31 | 19.60 | 30.00 |
| | | | H | 18.88 | 9.54 | -4.31 | 24.11 | 30.00 |
| | 1754.3 | 20393 | V | 13.91 | 9.62 | -4.34 | 19.19 | 30.00 |
| | | | H | 18.42 | 9.62 | -4.34 | 23.70 | 30.00 |
| BAND 4 BW: 1.4M QPSK RB: 1,5 | 1710.7 | 19957 | V | 13.93 | 9.47 | -4.31 | 19.10 | 30.00 |
| | | | H | 19.12 | 9.47 | -4.31 | 24.29 | 30.00 |
| | 1732.5 | 20175 | V | 14.47 | 9.55 | -4.31 | 19.71 | 30.00 |
| | | | H | 19.00 | 9.55 | -4.31 | 24.24 | 30.00 |
| | 1754.3 | 20393 | V | 13.67 | 9.62 | -4.34 | 18.96 | 30.00 |
| | | | H | 18.25 | 9.62 | -4.34 | 23.53 | 30.00 |
| BAND 4 BW: 1.4M 16QAM RB: 1,0 | 1710.7 | 19957 | V | 14.11 | 9.48 | -4.31 | 19.28 | 30.00 |
| | | | H | 19.12 | 9.48 | -4.31 | 24.29 | 30.00 |
| | 1732.5 | 20175 | V | 14.38 | 9.54 | -4.31 | 19.61 | 30.00 |
| | | | H | 18.94 | 9.55 | -4.31 | 24.17 | 30.00 |
| | 1754.3 | 20393 | V | 14.05 | 9.62 | -4.33 | 19.33 | 30.00 |
| | | | H | 18.66 | 9.62 | -4.33 | 23.94 | 30.00 |
| BAND 4 BW: 1.4M 16QAM RB: 1,5 | 1710.7 | 19957 | V | 14.15 | 9.47 | -4.31 | 19.32 | 30.00 |
| | | | H | 19.26 | 9.47 | -4.31 | 24.42 | 30.00 |
| | 1732.5 | 20175 | V | 14.53 | 9.55 | -4.31 | 19.76 | 30.00 |
| | | | H | 19.10 | 9.55 | -4.31 | 24.34 | 30.00 |
| | 1754.3 | 20393 | V | 13.99 | 9.62 | -4.34 | 19.28 | 30.00 |
| | | | H | 18.58 | 9.62 | -4.34 | 23.87 | 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 | dBi | dB | dBm | dBm |
| BAND 4 BW: 3M QPSK RB: 1,0 | 1711.5 | 19965 | V | 13.90 | 9.48 | -4.31 | 19.07 | 30.00 |
| | | | H | 19.04 | 9.48 | -4.31 | 24.21 | 30.00 |
| | 1732.5 | 20175 | V | 14.07 | 9.54 | -4.31 | 19.30 | 30.00 |
| | | | H | 19.00 | 9.54 | -4.31 | 24.24 | 30.00 |
| | 1753.5 | 20385 | V | 14.25 | 9.61 | -4.33 | 19.53 | 30.00 |
| | | | H | 18.76 | 9.61 | -4.33 | 24.04 | 30.00 |
| BAND 4 BW: 3M QPSK RB: 1,14 | 1711.5 | 19965 | V | 13.80 | 9.48 | -4.31 | 18.96 | 30.00 |
| | | | H | 19.06 | 9.48 | -4.31 | 24.22 | 30.00 |
| | 1732.5 | 20175 | V | 14.20 | 9.55 | -4.31 | 19.44 | 30.00 |
| | | | H | 19.24 | 9.55 | -4.31 | 24.48 | 30.00 |
| | 1753.5 | 20385 | V | 13.91 | 9.62 | -4.34 | 19.20 | 30.00 |
| | | | H | 18.35 | 9.62 | -4.34 | 23.64 | 30.00 |
| BAND 4 BW: 3M 16QAM RB: 1,0 | 1711.5 | 19965 | V | 14.02 | 9.48 | -4.31 | 19.19 | 30.00 |
| | | | H | 19.18 | 9.48 | -4.31 | 24.35 | 30.00 |
| | 1732.5 | 20175 | V | 14.03 | 9.54 | -4.31 | 19.26 | 30.00 |
| | | | H | 19.07 | 9.54 | -4.31 | 24.30 | 30.00 |
| | 1753.5 | 20385 | V | 14.43 | 9.61 | -4.33 | 19.71 | 30.00 |
| | | | H | 19.09 | 9.61 | -4.33 | 24.37 | 30.00 |
| BAND 4 BW: 3M 16QAM RB: 1,14 | 1711.5 | 19965 | V | 13.97 | 9.48 | -4.31 | 19.13 | 30.00 |
| | | | H | 19.20 | 9.48 | -4.31 | 24.37 | 30.00 |
| | 1732.5 | 20175 | V | 14.30 | 9.55 | -4.31 | 19.54 | 30.00 |
| | | | H | 19.34 | 9.55 | -4.31 | 24.58 | 30.00 |
| | 1753.5 | 20385 | V | 14.25 | 9.62 | -4.34 | 19.53 | 30.00 |
| | | | H | 18.68 | 9.62 | -4.34 | 23.97 | 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 |
| BAND 4 BW: 5M QPSK RB: 1,0 | 1712.5 | 19975 | V | 14.00 | 9.48 | -4.31 | 19.17 | 30.00 |
| | | | H | 19.16 | 9.48 | -4.31 | 24.33 | 30.00 |
| | 1732.5 | 20175 | V | 13.43 | 9.54 | -4.31 | 18.66 | 30.00 |
| | | | H | 18.96 | 9.54 | -4.31 | 24.19 | 30.00 |
| | 1752.5 | 20375 | V | 13.89 | 9.61 | -4.33 | 19.17 | 30.00 |
| | | | H | 19.22 | 9.61 | -4.33 | 24.50 | 30.00 |
| BAND 4 BW: 5M QPSK RB: 1,24 | 1712.5 | 19975 | V | 13.76 | 9.48 | -4.31 | 18.93 | 30.00 |
| | | | H | 18.96 | 9.48 | -4.31 | 24.13 | 30.00 |
| | 1732.5 | 20175 | V | 13.63 | 9.55 | -4.31 | 18.88 | 30.00 |
| | | | H | 19.38 | 9.55 | -4.31 | 24.63 | 30.00 |
| | 1752.5 | 20375 | V | 13.19 | 9.62 | -4.34 | 18.47 | 30.00 |
| | | | H | 18.54 | 9.62 | -4.34 | 23.83 | 30.00 |
| BAND 4 BW: 5M 16QAM RB: 1,0 | 1712.5 | 19975 | V | 14.14 | 9.48 | -4.31 | 19.31 | 30.00 |
| | | | H | 19.25 | 9.48 | -4.31 | 24.42 | 30.00 |
| | 1732.5 | 20175 | V | 13.47 | 9.54 | -4.31 | 18.70 | 30.00 |
| | | | H | 19.01 | 9.54 | -4.31 | 24.24 | 30.00 |
| | 1752.5 | 20375 | V | 14.08 | 9.61 | -4.33 | 19.36 | 30.00 |
| | | | H | 19.44 | 9.61 | -4.33 | 24.72 | 30.00 |
| BAND 4 BW: 5M 16QAM RB: 1,24 | 1712.5 | 19975 | V | 13.91 | 9.48 | -4.31 | 19.09 | 30.00 |
| | | | H | 19.11 | 9.48 | -4.31 | 24.28 | 30.00 |
| | 1732.5 | 20175 | V | 13.79 | 9.55 | -4.31 | 19.03 | 30.00 |
| | | | H | 19.54 | 9.55 | -4.31 | 24.78 | 30.00 |
| | 1752.5 | 20375 | V | 13.50 | 9.62 | -4.34 | 18.78 | 30.00 |
| | | | H | 18.88 | 9.62 | -4.34 | 24.16 | 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 |
| BAND 4 BW: 10M QPSK RB: 1,0 | 1715.0 | 20000 | V | 13.83 | 9.48 | -4.31 | 19.00 | 30.00 |
| | | | H | 18.75 | 9.48 | -4.31 | 23.92 | 30.00 |
| | 1732.5 | 20175 | V | 13.23 | 9.54 | -4.31 | 18.46 | 30.00 |
| | | | H | 18.35 | 9.54 | -4.31 | 23.58 | 30.00 |
| | 1750.0 | 20350 | V | 12.90 | 9.60 | -4.33 | 18.18 | 30.00 |
| | | | H | 19.25 | 9.60 | -4.33 | 24.53 | 30.00 |
| BAND 4 BW: 10M QPSK RB: 1,49 | 1715.0 | 20000 | V | 13.63 | 9.50 | -4.31 | 18.82 | 30.00 |
| | | | H | 18.20 | 9.50 | -4.31 | 23.39 | 30.00 |
| | 1732.5 | 20175 | V | 12.99 | 9.56 | -4.31 | 18.24 | 30.00 |
| | | | H | 19.29 | 9.56 | -4.31 | 24.54 | 30.00 |
| | 1750.0 | 20350 | V | 12.53 | 9.62 | -4.34 | 17.81 | 30.00 |
| | | | H | 18.53 | 9.62 | -4.34 | 23.81 | 30.00 |
| BAND 4 BW: 10M 16QAM RB: 1,0 | 1715.0 | 20000 | V | 14.07 | 9.48 | -4.31 | 19.24 | 30.00 |
| | | | H | 19.00 | 9.48 | -4.31 | 24.17 | 30.00 |
| | 1732.5 | 20175 | V | 13.43 | 9.54 | -4.31 | 18.66 | 30.00 |
| | | | H | 18.54 | 9.54 | -4.31 | 23.78 | 30.00 |
| | 1750.0 | 20350 | V | 13.14 | 9.60 | -4.33 | 18.41 | 30.00 |
| | | | H | 19.43 | 9.60 | -4.33 | 24.71 | 30.00 |
| BAND 4 BW: 10M 16QAM RB: 1,49 | 1715.0 | 20000 | V | 13.78 | 9.50 | -4.31 | 18.97 | 30.00 |
| | | | H | 18.36 | 9.50 | -4.31 | 23.55 | 30.00 |
| | 1732.5 | 20175 | V | 13.17 | 9.56 | -4.31 | 18.42 | 30.00 |
| | | | H | 19.50 | 9.56 | -4.31 | 24.75 | 30.00 |
| | 1750.0 | 20350 | V | 12.93 | 9.62 | -4.34 | 18.22 | 30.00 |
| | | | H | 18.90 | 9.62 | -4.34 | 24.18 | 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 |
| BAND 4 BW: 15M QPSK RB: 1,0 | 1717.5 | 20025 | V | 13.87 | 9.48 | -4.31 | 19.04 | 30.00 |
| | | | H | 18.65 | 9.48 | -4.31 | 23.82 | 30.00 |
| | 1732.5 | 20175 | V | 13.35 | 9.53 | -4.31 | 18.57 | 30.00 |
| | | | H | 18.18 | 9.53 | -4.31 | 23.40 | 30.00 |
| | 1747.5 | 20325 | V | 12.73 | 9.59 | -4.32 | 18.00 | 30.00 |
| | | | H | 19.35 | 9.59 | -4.32 | 24.62 | 30.00 |
| BAND 4 BW: 15M QPSK RB: 1,74 | 1717.5 | 20025 | V | 13.59 | 9.52 | -4.31 | 18.79 | 30.00 |
| | | | H | 18.16 | 9.52 | -4.31 | 23.37 | 30.00 |
| | 1732.5 | 20175 | V | 12.91 | 9.57 | -4.31 | 18.16 | 30.00 |
| | | | H | 19.48 | 9.57 | -4.31 | 24.74 | 30.00 |
| | 1747.5 | 20325 | V | 12.29 | 9.62 | -4.34 | 17.57 | 30.00 |
| | | | H | 18.51 | 9.62 | -4.34 | 23.79 | 30.00 |
| BAND 4 BW: 15M 16QAM RB: 1,0 | 1717.5 | 20025 | V | 14.11 | 9.48 | -4.31 | 19.28 | 30.00 |
| | | | H | 18.91 | 9.48 | -4.31 | 24.08 | 30.00 |
| | 1732.5 | 20175 | V | 13.49 | 9.53 | -4.31 | 18.72 | 30.00 |
| | | | H | 18.35 | 9.53 | -4.31 | 23.57 | 30.00 |
| | 1747.5 | 20325 | V | 12.96 | 9.59 | -4.32 | 18.23 | 30.00 |
| | | | H | 19.57 | 9.58 | -4.32 | 24.84 | 30.00 |
| BAND 4 BW: 15M 16QAM RB: 1,74 | 1717.5 | 20025 | V | 13.77 | 9.52 | -4.31 | 18.98 | 30.00 |
| | | | H | 18.34 | 9.52 | -4.31 | 23.55 | 30.00 |
| | 1732.5 | 20175 | V | 13.17 | 9.57 | -4.31 | 18.43 | 30.00 |
| | | | H | 19.73 | 9.57 | -4.31 | 24.99 | 30.00 |
| | 1747.5 | 20325 | V | 12.63 | 9.62 | -4.34 | 17.91 | 30.00 |
| | | | H | 18.85 | 9.62 | -4.34 | 24.13 | 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 |
| BAND 4 BW: 20M QPSK RB: 1,0 | 1720.0 | 20050 | V | 13.85 | 9.48 | -4.31 | 19.02 | 30.00 |
| | | | H | 18.59 | 9.48 | -4.31 | 23.76 | 30.00 |
| | 1732.5 | 20175 | V | 13.51 | 9.52 | -4.31 | 18.72 | 30.00 |
| | | | H | 18.02 | 9.52 | -4.31 | 23.23 | 30.00 |
| | 1745.0 | 20300 | V | 12.72 | 9.56 | -4.31 | 17.97 | 30.00 |
| | | | H | 19.02 | 9.56 | -4.31 | 24.27 | 30.00 |
| BAND 4 BW: 20M QPSK RB: 1,99 | 1720.0 | 20050 | V | 13.36 | 9.53 | -4.31 | 18.59 | 30.00 |
| | | | H | 18.50 | 9.53 | -4.31 | 23.73 | 30.00 |
| | 1732.5 | 20175 | V | 12.89 | 9.58 | -4.31 | 18.16 | 30.00 |
| | | | H | 19.48 | 9.58 | -4.31 | 24.74 | 30.00 |
| | 1745.0 | 20300 | V | 12.39 | 9.62 | -4.34 | 17.67 | 30.00 |
| | | | H | 18.60 | 9.62 | -4.33 | 23.89 | 30.00 |
| BAND 4 BW: 20M 16QAM RB: 1,0 | 1720.0 | 20050 | V | 14.17 | 9.48 | -4.31 | 19.35 | 30.00 |
| | | | H | 18.93 | 9.48 | -4.31 | 24.11 | 30.00 |
| | 1732.5 | 20175 | V | 13.64 | 9.53 | -4.31 | 18.86 | 30.00 |
| | | | H | 18.22 | 9.53 | -4.31 | 23.43 | 30.00 |
| | 1745.0 | 20300 | V | 12.89 | 9.57 | -4.31 | 18.16 | 30.00 |
| | | | H | 19.28 | 9.56 | -4.31 | 24.53 | 30.00 |
| BAND 4 BW: 20M 16QAM RB: 1,99 | 1720.0 | 20050 | V | 13.64 | 9.53 | -4.31 | 18.86 | 30.00 |
| | | | H | 18.77 | 9.53 | -4.31 | 23.99 | 30.00 |
| | 1732.5 | 20175 | V | 13.27 | 9.58 | -4.31 | 18.54 | 30.00 |
| | | | H | 19.86 | 9.58 | -4.31 | 25.12 | 30.00 |
| | 1745.0 | 20300 | V | 12.83 | 9.62 | -4.33 | 18.12 | 30.00 |
| | | | H | 19.05 | 9.62 | -4.33 | 24.34 | 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 | ERP | Limit |
| | MHz | | V/H | dBm | dBd | dB | dBm | dBm |
| BAND 5 BW: 1.4M QPSK RB: 1,0 | 824.7 | 20407 | V | 13.38 | 3.30 | -2.93 | 13.76 | 38.45 |
| | | | H | 18.30 | 3.30 | -2.93 | 18.68 | 38.45 |
| | 836.5 | 20525 | V | 13.68 | 3.29 | -2.96 | 14.01 | 38.45 |
| | | | H | 18.25 | 3.29 | -2.96 | 18.58 | 38.45 |
| | 848.3 | 20643 | V | 12.73 | 3.27 | -3.00 | 13.00 | 38.45 |
| | | | H | 18.02 | 3.27 | -2.99 | 18.29 | 38.45 |
| BAND 5 BW: 1.4M QPSK RB: 1,5 | 824.7 | 20407 | V | 13.72 | 3.31 | -2.92 | 14.10 | 38.45 |
| | | | H | 18.49 | 3.31 | -2.92 | 18.87 | 38.45 |
| | 836.5 | 20525 | V | 13.48 | 3.29 | -2.96 | 13.81 | 38.45 |
| | | | H | 18.09 | 3.29 | -2.96 | 18.43 | 38.45 |
| | 848.3 | 20643 | V | 11.62 | 3.27 | -3.00 | 11.89 | 38.45 |
| | | | H | 16.86 | 3.27 | -3.00 | 17.13 | 38.45 |
| BAND 5 BW: 1.4M 16QAM RB: 1,0 | 824.7 | 20407 | V | 12.82 | 3.30 | -2.93 | 13.19 | 38.45 |
| | | | H | 17.74 | 3.30 | -2.93 | 18.11 | 38.45 |
| | 836.5 | 20525 | V | 13.13 | 3.29 | -2.96 | 13.46 | 38.45 |
| | | | H | 17.66 | 3.29 | -2.96 | 18.00 | 38.45 |
| | 848.3 | 20643 | V | 12.21 | 3.27 | -2.99 | 12.49 | 38.45 |
| | | | H | 17.53 | 3.27 | -2.99 | 17.81 | 38.45 |
| BAND 5 BW: 1.4M 16QAM RB: 1,5 | 824.7 | 20407 | V | 13.12 | 3.31 | -2.92 | 13.50 | 38.45 |
| | | | H | 17.89 | 3.31 | -2.92 | 18.27 | 38.45 |
| | 836.5 | 20525 | V | 12.27 | 3.29 | -2.96 | 12.60 | 38.45 |
| | | | H | 17.50 | 3.29 | -2.96 | 17.83 | 38.45 |
| | 848.3 | 20643 | V | 10.92 | 3.27 | -3.00 | 11.20 | 38.45 |
| | | | H | 16.21 | 3.27 | -3.00 | 16.49 | 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 |
| BAND 5 BW: 3M QPSK RB: 1,0 | 825.5 | 20415 | V | 13.26 | 3.30 | -2.93 | 13.64 | 38.45 |
| | | | H | 18.22 | 3.30 | -2.93 | 18.59 | 38.45 |
| | 836.5 | 20525 | V | 14.47 | 3.29 | -2.95 | 14.81 | 38.45 |
| | | | H | 18.98 | 3.29 | -2.95 | 19.32 | 38.45 |
| | 847.5 | 20635 | V | 14.43 | 3.28 | -2.99 | 14.72 | 38.45 |
| | | | H | 19.77 | 3.28 | -2.99 | 20.06 | 38.45 |
| BAND 5 BW: 3M QPSK RB: 1,14 | 825.5 | 20415 | V | 14.74 | 3.30 | -2.93 | 15.12 | 38.45 |
| | | | H | 19.39 | 3.30 | -2.93 | 19.77 | 38.45 |
| | 836.5 | 20525 | V | 12.42 | 3.29 | -2.96 | 12.75 | 38.45 |
| | | | H | 17.07 | 3.29 | -2.96 | 17.39 | 38.45 |
| | 847.5 | 20635 | V | 11.59 | 3.27 | -3.00 | 11.86 | 38.45 |
| | | | H | 16.78 | 3.27 | -3.00 | 17.05 | 38.45 |
| BAND 5 BW: 3M 16QAM RB: 1,0 | 825.5 | 20415 | V | 12.66 | 3.30 | -2.93 | 13.04 | 38.45 |
| | | | H | 17.65 | 3.30 | -2.93 | 18.02 | 38.45 |
| | 836.5 | 20525 | V | 13.34 | 3.29 | -2.95 | 13.68 | 38.45 |
| | | | H | 17.85 | 3.29 | -2.95 | 18.19 | 38.45 |
| | 847.5 | 20635 | V | 13.81 | 3.28 | -2.99 | 14.10 | 38.45 |
| | | | H | 19.14 | 3.28 | -2.99 | 19.43 | 38.45 |
| BAND 5 BW: 3M 16QAM RB: 1,14 | 825.5 | 20415 | V | 13.56 | 3.30 | -2.93 | 13.94 | 38.45 |
| | | | H | 18.25 | 3.30 | -2.93 | 18.63 | 38.45 |
| | 836.5 | 20525 | V | 11.91 | 3.29 | -2.96 | 12.23 | 38.45 |
| | | | H | 16.60 | 3.29 | -2.96 | 16.92 | 38.45 |
| | 847.5 | 20635 | V | 10.91 | 3.27 | -3.00 | 11.18 | 38.45 |
| | | | H | 16.09 | 3.27 | -3.00 | 16.37 | 38.45 |

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 |
| BAND 5 BW: 5M QPSK RB: 1,0 | 826.5 | 20425 | V | 13.45 | 3.30 | -2.93 | 13.82 | 38.45 |
| | | | H | 18.25 | 3.30 | -2.93 | 18.62 | 38.45 |
| | 836.5 | 20525 | V | 14.67 | 3.29 | -2.95 | 15.01 | 38.45 |
| | | | H | 19.13 | 3.29 | -2.95 | 19.47 | 38.45 |
| | 846.5 | 20625 | V | 14.58 | 3.28 | -2.98 | 14.87 | 38.45 |
| | | | H | 19.85 | 3.28 | -2.98 | 20.14 | 38.45 |
| BAND 5 BW: 5M QPSK RB: 1,24 | 826.5 | 20425 | V | 15.54 | 3.30 | -2.93 | 15.90 | 38.45 |
| | | | H | 19.96 | 3.30 | -2.93 | 20.33 | 38.45 |
| | 836.5 | 20525 | V | 13.06 | 3.29 | -2.96 | 13.38 | 38.45 |
| | | | H | 17.83 | 3.29 | -2.96 | 18.15 | 38.45 |
| | 846.5 | 20625 | V | 12.32 | 3.27 | -3.00 | 12.60 | 38.45 |
| | | | H | 17.61 | 3.27 | -3.00 | 17.89 | 38.45 |
| BAND 5 BW: 5M 16QAM RB: 1,0 | 826.5 | 20425 | V | 12.87 | 3.30 | -2.93 | 13.24 | 38.45 |
| | | | H | 17.78 | 3.30 | -2.93 | 18.15 | 38.45 |
| | 836.5 | 20525 | V | 14.44 | 3.29 | -2.95 | 14.78 | 38.45 |
| | | | H | 18.85 | 3.29 | -2.95 | 19.19 | 38.45 |
| | 846.5 | 20625 | V | 15.38 | 3.28 | -2.98 | 15.68 | 38.45 |
| | | | H | 19.96 | 3.28 | -2.98 | 20.25 | 38.45 |
| BAND 5 BW: 5M 16QAM RB: 1,24 | 826.5 | 20425 | V | 15.60 | 3.30 | -2.93 | 15.97 | 38.45 |
| | | | H | 20.21 | 3.30 | -2.93 | 20.58 | 38.45 |
| | 836.5 | 20525 | V | 11.89 | 3.29 | -2.96 | 12.21 | 38.45 |
| | | | H | 16.61 | 3.29 | -2.96 | 16.93 | 38.45 |
| | 846.5 | 20625 | V | 11.00 | 3.27 | -3.00 | 11.28 | 38.45 |
| | | | H | 16.25 | 3.27 | -3.00 | 16.53 | 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 |
| BAND 5 BW: 10M QPSK RB: 1,0 | 829.0 | 20450 | V | 12.67 | 3.30 | -2.93 | 13.04 | 38.45 |
| | | | H | 17.63 | 3.30 | -2.93 | 18.01 | 38.45 |
| | 836.5 | 20525 | V | 15.18 | 3.30 | -2.94 | 15.53 | 38.45 |
| | | | H | 19.64 | 3.30 | -2.94 | 19.99 | 38.45 |
| | 844.0 | 20600 | V | 12.23 | 3.29 | -2.97 | 12.55 | 38.45 |
| | | | H | 17.14 | 3.28 | -2.98 | 17.45 | 38.45 |
| BAND 5 BW: 10M QPSK RB: 1,49 | 829.0 | 20450 | V | 14.84 | 3.29 | -2.95 | 15.18 | 38.45 |
| | | | H | 19.34 | 3.29 | -2.95 | 19.68 | 38.45 |
| | 836.5 | 20525 | V | 13.11 | 3.28 | -2.97 | 13.42 | 38.45 |
| | | | H | 18.23 | 3.28 | -2.98 | 18.53 | 38.45 |
| | 844.0 | 20600 | V | 11.72 | 3.27 | -3.00 | 12.00 | 38.45 |
| | | | H | 17.01 | 3.27 | -3.00 | 17.29 | 38.45 |
| BAND 5 BW: 10M 16QAM RB: 1,0 | 829.0 | 20450 | V | 12.24 | 3.30 | -2.93 | 12.61 | 38.45 |
| | | | H | 17.23 | 3.30 | -2.93 | 17.60 | 38.45 |
| | 836.5 | 20525 | V | 14.85 | 3.30 | -2.94 | 15.21 | 38.45 |
| | | | H | 19.35 | 3.30 | -2.94 | 19.70 | 38.45 |
| | 844.0 | 20600 | V | 11.76 | 3.29 | -2.97 | 12.08 | 38.45 |
| | | | H | 16.77 | 3.28 | -2.98 | 17.07 | 38.45 |
| BAND 5 BW: 10M 16QAM RB: 1,49 | 829.0 | 20450 | V | 14.69 | 3.29 | -2.95 | 15.03 | 38.45 |
| | | | H | 19.15 | 3.29 | -2.95 | 19.49 | 38.45 |
| | 836.5 | 20525 | V | 12.03 | 3.28 | -2.97 | 12.34 | 38.45 |
| | | | H | 17.02 | 3.28 | -2.97 | 17.33 | 38.45 |
| | 844.0 | 20600 | V | 11.16 | 3.27 | -3.00 | 11.43 | 38.45 |
| | | | H | 16.50 | 3.27 | -3.00 | 16.77 | 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 |
| BAND 7 BW: 5M QPSK RB: 1,0 | 2502.5 | 20775 | V | 14.89 | 10.90 | -5.26 | 20.53 | 33.01 |
| | | | H | 16.08 | 10.90 | -5.25 | 21.72 | 33.01 |
| | 2535.0 | 21100 | V | 15.08 | 10.94 | -5.30 | 20.72 | 33.01 |
| | | | H | 15.80 | 10.94 | -5.30 | 21.44 | 33.01 |
| | 2567.5 | 21425 | V | 16.90 | 10.98 | -5.34 | 22.54 | 33.01 |
| | | | H | 16.64 | 10.98 | -5.34 | 22.28 | 33.01 |
| BAND 7 BW: 5M QPSK RB: 1,24 | 2502.5 | 20775 | V | 16.17 | 10.90 | -5.26 | 21.82 | 33.01 |
| | | | H | 17.39 | 10.90 | -5.26 | 23.03 | 33.01 |
| | 2535.0 | 21100 | V | 14.31 | 10.95 | -5.31 | 19.95 | 33.01 |
| | | | H | 15.08 | 10.95 | -5.31 | 20.72 | 33.01 |
| | 2567.5 | 21425 | V | 16.87 | 10.99 | -5.34 | 22.52 | 33.01 |
| | | | H | 16.44 | 10.99 | -5.34 | 22.09 | 33.01 |
| BAND 7 BW: 5M 16QAM RB: 1,0 | 2502.5 | 20775 | V | 15.09 | 10.90 | -5.25 | 20.74 | 33.01 |
| | | | H | 16.36 | 10.90 | -5.26 | 22.01 | 33.01 |
| | 2535.0 | 21100 | V | 15.42 | 10.94 | -5.30 | 21.06 | 33.01 |
| | | | H | 16.17 | 10.94 | -5.30 | 21.81 | 33.01 |
| | 2567.5 | 21425 | V | 17.00 | 10.98 | -5.34 | 22.64 | 33.01 |
| | | | H | 16.74 | 10.98 | -5.34 | 22.38 | 33.01 |
| BAND 7 BW: 5M 16QAM RB: 1,24 | 2502.5 | 20775 | V | 16.31 | 10.90 | -5.26 | 21.96 | 33.01 |
| | | | H | 17.60 | 10.90 | -5.26 | 23.24 | 33.01 |
| | 2535.0 | 21100 | V | 14.40 | 10.95 | -5.31 | 20.04 | 33.01 |
| | | | H | 15.22 | 10.95 | -5.31 | 20.85 | 33.01 |
| | 2567.5 | 21425 | V | 17.08 | 10.99 | -5.34 | 22.73 | 33.01 |
| | | | H | 16.67 | 10.99 | -5.34 | 22.31 | 33.01 |

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 |
| BAND 7 BW: 10M QPSK RB: 1,0 | 2505.0 | 20800 | V | 15.20 | 10.90 | -5.26 | 20.85 | 33.01 |
| | | | H | 16.05 | 10.90 | -5.26 | 21.70 | 33.01 |
| | 2535.0 | 21100 | V | 16.10 | 10.94 | -5.29 | 21.74 | 33.01 |
| | | | H | 16.58 | 10.94 | -5.30 | 22.23 | 33.01 |
| | 2565.0 | 21400 | V | 16.67 | 10.98 | -5.34 | 22.30 | 33.01 |
| | | | H | 16.48 | 10.98 | -5.34 | 22.12 | 33.01 |
| BAND 7 BW: 10M QPSK RB: 1,49 | 2505.0 | 20800 | V | 16.62 | 10.91 | -5.26 | 22.27 | 33.01 |
| | | | H | 17.37 | 10.91 | -5.26 | 23.02 | 33.01 |
| | 2535.0 | 21100 | V | 14.38 | 10.95 | -5.31 | 20.02 | 33.01 |
| | | | H | 14.91 | 10.95 | -5.31 | 20.55 | 33.01 |
| | 2565.0 | 21400 | V | 16.92 | 10.99 | -5.34 | 22.57 | 33.01 |
| | | | H | 16.42 | 10.99 | -5.34 | 22.07 | 33.01 |
| BAND 7 BW: 10M 16QAM RB: 1,0 | 2505.0 | 20800 | V | 15.54 | 10.90 | -5.26 | 21.19 | 33.01 |
| | | | H | 16.51 | 10.90 | -5.26 | 22.15 | 33.01 |
| | 2535.0 | 21100 | V | 16.33 | 10.94 | -5.29 | 21.97 | 33.01 |
| | | | H | 16.81 | 10.94 | -5.29 | 22.45 | 33.01 |
| | 2565.0 | 21400 | V | 16.82 | 10.98 | -5.34 | 22.46 | 33.01 |
| | | | H | 16.63 | 10.98 | -5.34 | 22.27 | 33.01 |
| BAND 7 BW: 10M 16QAM RB: 1,49 | 2505.0 | 20800 | V | 16.85 | 10.91 | -5.26 | 22.50 | 33.01 |
| | | | H | 17.63 | 10.91 | -5.26 | 23.28 | 33.01 |
| | 2535.0 | 21100 | V | 14.48 | 10.95 | -5.31 | 20.12 | 33.01 |
| | | | H | 15.08 | 10.95 | -5.31 | 20.72 | 33.01 |
| | 2565.0 | 21400 | V | 17.25 | 10.99 | -5.34 | 22.90 | 33.01 |
| | | | H | 16.72 | 10.99 | -5.34 | 22.37 | 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 |
| BAND 7 BW: 15M QPSK RB: 1,0 | 2507.5 | 20825 | V | 14.99 | 10.90 | -5.26 | 20.64 | 33.01 |
| | | | H | 16.07 | 10.90 | -5.26 | 21.72 | 33.01 |
| | 2535.0 | 21100 | V | 16.54 | 10.93 | -5.29 | 22.18 | 33.01 |
| | | | H | 16.90 | 10.93 | -5.29 | 22.54 | 33.01 |
| | 2562.5 | 21375 | V | 16.13 | 10.97 | -5.34 | 21.76 | 33.01 |
| | | | H | 16.09 | 10.97 | -5.34 | 21.73 | 33.01 |
| BAND 7 BW: 15M QPSK RB: 1,74 | 2507.5 | 20825 | V | 15.95 | 10.92 | -5.27 | 21.60 | 33.01 |
| | | | H | 16.76 | 10.92 | -5.27 | 22.41 | 33.01 |
| | 2535.0 | 21100 | V | 14.37 | 10.95 | -5.32 | 20.01 | 33.01 |
| | | | H | 14.82 | 10.95 | -5.32 | 20.46 | 33.01 |
| | 2562.5 | 21375 | V | 16.89 | 10.99 | -5.34 | 22.54 | 33.01 |
| | | | H | 16.26 | 10.99 | -5.34 | 21.91 | 33.01 |
| BAND 7 BW: 15M 16QAM RB: 1,0 | 2507.5 | 20825 | V | 15.36 | 10.90 | -5.26 | 21.01 | 33.01 |
| | | | H | 16.40 | 10.90 | -5.26 | 22.05 | 33.01 |
| | 2535.0 | 21100 | V | 16.74 | 10.94 | -5.29 | 22.39 | 33.01 |
| | | | H | 17.11 | 10.93 | -5.29 | 22.76 | 33.01 |
| | 2562.5 | 21375 | V | 16.24 | 10.97 | -5.34 | 21.87 | 33.01 |
| | | | H | 16.28 | 10.97 | -5.34 | 21.91 | 33.01 |
| BAND 7 BW: 15M 16QAM RB: 1,74 | 2507.5 | 20825 | V | 16.13 | 10.92 | -5.27 | 21.78 | 33.01 |
| | | | H | 17.03 | 10.92 | -5.27 | 22.68 | 33.01 |
| | 2535.0 | 21100 | V | 14.92 | 10.95 | -5.32 | 20.55 | 33.01 |
| | | | H | 15.36 | 10.95 | -5.32 | 21.00 | 33.01 |
| | 2562.5 | 21375 | V | 17.19 | 10.99 | -5.34 | 22.84 | 33.01 |
| | | | H | 16.58 | 10.99 | -5.34 | 22.23 | 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 |
| BAND 7 BW: 20M QPSK RB: 1,0 | 2510.0 | 20850 | V | 15.21 | 10.90 | -5.26 | 20.86 | 33.01 |
| | | | H | 15.99 | 10.90 | -5.26 | 21.64 | 33.01 |
| | 2535.0 | 21100 | V | 16.80 | 10.93 | -5.29 | 22.45 | 33.01 |
| | | | H | 17.00 | 10.93 | -5.29 | 22.65 | 33.01 |
| | 2560.0 | 21350 | V | 15.61 | 10.96 | -5.33 | 21.24 | 33.01 |
| | | | H | 15.73 | 10.96 | -5.33 | 21.36 | 33.01 |
| BAND 7 BW: 20M QPSK RB: 1,99 | 2510.0 | 20850 | V | 16.05 | 10.92 | -5.27 | 21.70 | 33.01 |
| | | | H | 16.53 | 10.92 | -5.27 | 22.18 | 33.01 |
| | 2535.0 | 21100 | V | 14.70 | 10.96 | -5.32 | 20.34 | 33.01 |
| | | | H | 14.96 | 10.95 | -5.32 | 20.59 | 33.01 |
| | 2560.0 | 21350 | V | 16.76 | 10.99 | -5.34 | 22.41 | 33.01 |
| | | | H | 16.12 | 10.99 | -5.34 | 21.76 | 33.01 |
| BAND 7 BW: 20M 16QAM RB: 1,0 | 2510.0 | 20850 | V | 15.41 | 10.90 | -5.26 | 21.06 | 33.01 |
| | | | H | 16.47 | 10.90 | -5.26 | 22.11 | 33.01 |
| | 2535.0 | 21100 | V | 16.96 | 10.93 | -5.29 | 22.61 | 33.01 |
| | | | H | 17.12 | 10.93 | -5.29 | 22.77 | 33.01 |
| | 2560.0 | 21350 | V | 15.77 | 10.96 | -5.33 | 21.40 | 33.01 |
| | | | H | 15.91 | 10.96 | -5.33 | 21.54 | 33.01 |
| BAND 7 BW: 20M 16QAM RB: 1,99 | 2510.0 | 20850 | V | 16.30 | 10.92 | -5.27 | 21.95 | 33.01 |
| | | | H | 16.80 | 10.92 | -5.27 | 22.45 | 33.01 |
| | 2535.0 | 21100 | V | 15.11 | 10.95 | -5.32 | 20.75 | 33.01 |
| | | | H | 15.41 | 10.95 | -5.32 | 21.04 | 33.01 |
| | 2560.0 | 21350 | V | 17.09 | 10.99 | -5.34 | 22.73 | 33.01 |
| | | | H | 16.48 | 10.99 | -5.34 | 22.13 | 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 |
| BAND 12 BW: 1.4M QPSK RB: 1,0 | 699.7 | 23017 | V | 14.04 | 3.08 | -2.96 | 14.16 | 34.77 |
| | | | H | 19.50 | 3.08 | -2.96 | 19.62 | 34.77 |
| | 707.5 | 23095 | V | 14.40 | 3.09 | -3.04 | 14.46 | 34.77 |
| | | | H | 20.68 | 3.09 | -3.04 | 20.74 | 34.77 |
| | 715.3 | 23173 | V | 12.34 | 3.11 | -3.06 | 12.39 | 34.77 |
| | | | H | 19.13 | 3.11 | -3.06 | 19.18 | 34.77 |
| BAND 12 BW: 1.4M QPSK RB: 1,5 | 699.7 | 23017 | V | 14.25 | 3.08 | -2.96 | 14.37 | 34.77 |
| | | | H | 19.82 | 3.08 | -2.96 | 19.94 | 34.77 |
| | 707.5 | 23095 | V | 13.56 | 3.09 | -3.04 | 13.61 | 34.77 |
| | | | H | 19.88 | 3.09 | -3.04 | 19.93 | 34.77 |
| | 715.3 | 23173 | V | 12.42 | 3.11 | -3.06 | 12.47 | 34.77 |
| | | | H | 19.32 | 3.11 | -3.06 | 19.37 | 34.77 |
| BAND 12 BW: 1.4M 16QAM RB: 1,0 | 699.7 | 23017 | V | 14.29 | 3.08 | -2.96 | 14.41 | 34.77 |
| | | | H | 19.71 | 3.08 | -2.96 | 19.83 | 34.77 |
| | 707.5 | 23095 | V | 14.54 | 3.09 | -3.04 | 14.60 | 34.77 |
| | | | H | 20.83 | 3.09 | -3.04 | 20.89 | 34.77 |
| | 715.3 | 23173 | V | 12.46 | 3.11 | -3.06 | 12.51 | 34.77 |
| | | | H | 19.29 | 3.11 | -3.06 | 19.34 | 34.77 |
| BAND 12 BW: 1.4M 16QAM RB: 1,5 | 699.7 | 23017 | V | 14.37 | 3.08 | -2.96 | 14.49 | 34.77 |
| | | | H | 19.96 | 3.08 | -2.96 | 20.08 | 34.77 |
| | 707.5 | 23095 | V | 13.78 | 3.09 | -3.04 | 13.84 | 34.77 |
| | | | H | 20.12 | 3.09 | -3.04 | 20.17 | 34.77 |
| | 715.3 | 23173 | V | 12.59 | 3.11 | -3.06 | 12.64 | 34.77 |
| | | | H | 19.51 | 3.11 | -3.06 | 19.55 | 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 |
| BAND 12 BW: 3M QPSK RB: 1,0 | 700.5 | 23025 | V | 14.05 | 3.08 | -2.96 | 14.17 | 34.77 |
| | | | H | 19.49 | 3.08 | -2.96 | 19.61 | 34.77 |
| | 707.5 | 23095 | V | 14.78 | 3.09 | -3.03 | 14.83 | 34.77 |
| | | | H | 20.97 | 3.09 | -3.03 | 21.03 | 34.77 |
| | 714.5 | 23165 | V | 11.87 | 3.11 | -3.06 | 11.92 | 34.77 |
| | | | H | 18.54 | 3.11 | -3.06 | 18.59 | 34.77 |
| BAND 12 BW: 3M QPSK RB: 1,14 | 700.5 | 23025 | V | 14.34 | 3.08 | -2.97 | 14.45 | 34.77 |
| | | | H | 20.07 | 3.08 | -2.97 | 20.17 | 34.77 |
| | 707.5 | 23095 | V | 12.89 | 3.10 | -3.04 | 12.95 | 34.77 |
| | | | H | 19.23 | 3.10 | -3.04 | 19.29 | 34.77 |
| | 714.5 | 23165 | V | 12.40 | 3.11 | -3.06 | 12.44 | 34.77 |
| | | | H | 19.30 | 3.11 | -3.06 | 19.35 | 34.77 |
| BAND 12 BW: 3M 16QAM RB: 1,0 | 700.5 | 23025 | V | 14.19 | 3.08 | -2.96 | 14.32 | 34.77 |
| | | | H | 19.62 | 3.08 | -2.96 | 19.75 | 34.77 |
| | 707.5 | 23095 | V | 15.02 | 3.09 | -3.03 | 15.08 | 34.77 |
| | | | H | 21.20 | 3.09 | -3.04 | 21.26 | 34.77 |
| | 714.5 | 23165 | V | 11.94 | 3.11 | -3.06 | 11.99 | 34.77 |
| | | | H | 18.58 | 3.11 | -3.06 | 18.63 | 34.77 |
| BAND 12 BW: 3M 16QAM RB: 1,14 | 700.5 | 23025 | V | 14.38 | 3.08 | -2.97 | 14.49 | 34.77 |
| | | | H | 20.12 | 3.08 | -2.98 | 20.23 | 34.77 |
| | 707.5 | 23095 | V | 13.09 | 3.10 | -3.04 | 13.15 | 34.77 |
| | | | H | 19.41 | 3.10 | -3.04 | 19.47 | 34.77 |
| | 714.5 | 23165 | V | 12.63 | 3.11 | -3.06 | 12.67 | 34.77 |
| | | | H | 19.54 | 3.11 | -3.06 | 19.59 | 34.77 |

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 |
| BAND 12 BW: 5M QPSK RB: 1,0 | 701.5 | 23035 | V | 14.02 | 3.08 | -2.96 | 14.14 | 34.77 |
| | | | H | 19.51 | 3.08 | -2.96 | 19.63 | 34.77 |
| | 707.5 | 23095 | V | 14.93 | 3.09 | -3.03 | 14.99 | 34.77 |
| | | | H | 21.11 | 3.09 | -3.03 | 21.17 | 34.77 |
| | 713.5 | 23155 | V | 11.68 | 3.10 | -3.05 | 11.73 | 34.77 |
| | | | H | 18.11 | 3.10 | -3.05 | 18.16 | 34.77 |
| BAND 12 BW: 5M QPSK RB: 1,24 | 701.5 | 23035 | V | 14.76 | 3.09 | -3.01 | 14.84 | 34.77 |
| | | | H | 20.72 | 3.09 | -3.01 | 20.80 | 34.77 |
| | 707.5 | 23095 | V | 12.39 | 3.10 | -3.04 | 12.44 | 34.77 |
| | | | H | 18.76 | 3.10 | -3.04 | 18.81 | 34.77 |
| | 713.5 | 23155 | V | 12.50 | 3.11 | -3.06 | 12.55 | 34.77 |
| | | | H | 19.26 | 3.11 | -3.06 | 19.31 | 34.77 |
| BAND 12 BW: 5M 16QAM RB: 1,0 | 701.5 | 23035 | V | 14.18 | 3.08 | -2.96 | 14.30 | 34.77 |
| | | | H | 19.68 | 3.08 | -2.99 | 19.77 | 34.77 |
| | 707.5 | 23095 | V | 15.23 | 3.09 | -3.03 | 15.29 | 34.77 |
| | | | H | 21.30 | 3.09 | -3.03 | 21.36 | 34.77 |
| | 713.5 | 23155 | V | 11.79 | 3.10 | -3.05 | 11.84 | 34.77 |
| | | | H | 18.23 | 3.10 | -3.05 | 18.28 | 34.77 |
| BAND 12 BW: 5M 16QAM RB: 1,24 | 701.5 | 23035 | V | 15.05 | 3.09 | -3.01 | 15.13 | 34.77 |
| | | | H | 20.97 | 3.09 | -3.01 | 21.04 | 34.77 |
| | 707.5 | 23095 | V | 12.55 | 3.10 | -3.04 | 12.60 | 34.77 |
| | | | H | 18.93 | 3.10 | -3.05 | 18.98 | 34.77 |
| | 713.5 | 23155 | V | 12.73 | 3.11 | -3.06 | 12.77 | 34.77 |
| | | | H | 19.54 | 3.11 | -3.06 | 19.59 | 34.77 |

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 |
| BAND 12 BW: 10M QPSK RB: 1,0 | 704.0 | 23060 | V | 14.04 | 3.08 | -2.96 | 14.16 | 34.77 |
| | | | H | 19.56 | 3.08 | -2.96 | 19.68 | 34.77 |
| | 707.5 | 23095 | V | 14.58 | 3.09 | -3.00 | 14.66 | 34.77 |
| | | | H | 20.50 | 3.09 | -3.00 | 20.58 | 34.77 |
| | 711.0 | 23130 | V | 14.63 | 3.09 | -3.04 | 14.69 | 34.77 |
| | | | H | 20.87 | 3.09 | -3.03 | 20.93 | 34.77 |
| BAND 12 BW: 10M QPSK RB: 1,49 | 704.0 | 23060 | V | 13.21 | 3.10 | -3.04 | 13.26 | 34.77 |
| | | | H | 19.51 | 3.10 | -3.04 | 19.56 | 34.77 |
| | 707.5 | 23095 | V | 11.59 | 3.10 | -3.05 | 11.64 | 34.77 |
| | | | H | 18.15 | 3.10 | -3.05 | 18.20 | 34.77 |
| | 711.0 | 23130 | V | 12.51 | 3.11 | -3.06 | 12.56 | 34.77 |
| | | | H | 19.41 | 3.11 | -3.06 | 19.46 | 34.77 |
| BAND 12 BW: 10M 16QAM RB: 1,0 | 704.0 | 23060 | V | 14.23 | 3.08 | -2.96 | 14.35 | 34.77 |
| | | | H | 19.70 | 3.08 | -2.96 | 19.83 | 34.77 |
| | 707.5 | 23095 | V | 14.68 | 3.08 | -2.99 | 14.76 | 34.77 |
| | | | H | 20.56 | 3.09 | -3.01 | 20.64 | 34.77 |
| | 711.0 | 23130 | V | 14.90 | 3.09 | -3.04 | 14.95 | 34.77 |
| | | | H | 21.12 | 3.09 | -3.03 | 21.18 | 34.77 |
| BAND 12 BW: 10M 16QAM RB: 1,49 | 704.0 | 23060 | V | 13.41 | 3.09 | -3.04 | 13.47 | 34.77 |
| | | | H | 19.83 | 3.10 | -3.04 | 19.88 | 34.77 |
| | 707.5 | 23095 | V | 11.79 | 3.10 | -3.05 | 11.85 | 34.77 |
| | | | H | 18.33 | 3.10 | -3.05 | 18.38 | 34.77 |
| | 711.0 | 23130 | V | 12.63 | 3.11 | -3.06 | 12.68 | 34.77 |
| | | | H | 19.58 | 3.11 | -3.06 | 19.63 | 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 |
| BAND 13 BW: 5M QPSK RB: 1,0 | 779.5 | 23205 | V | 11.35 | 3.27 | -2.91 | 11.71 | 34.77 |
| | | | H | 14.56 | 3.27 | -2.91 | 14.92 | 34.77 |
| | 782.0 | 23230 | V | 13.54 | 3.27 | -2.91 | 13.90 | 34.77 |
| | | | H | 16.91 | 3.29 | -2.91 | 17.28 | 34.77 |
| | 784.5 | 23255 | V | 13.32 | 3.28 | -2.91 | 13.69 | 34.77 |
| | | | H | 17.05 | 3.29 | -2.91 | 17.43 | 34.77 |
| BAND 13 BW: 5M QPSK RB: 1,24 | 779.5 | 23205 | V | 13.12 | 3.28 | -2.91 | 13.49 | 34.77 |
| | | | H | 16.76 | 3.29 | -2.91 | 17.14 | 34.77 |
| | 782.0 | 23230 | V | 14.23 | 3.29 | -2.91 | 14.61 | 34.77 |
| | | | H | 18.00 | 3.30 | -2.91 | 18.40 | 34.77 |
| | 784.5 | 23255 | V | 13.75 | 3.29 | -2.91 | 14.13 | 34.77 |
| | | | H | 17.56 | 3.29 | -2.91 | 17.95 | 34.77 |
| BAND 13 BW: 5M 16QAM RB: 1,0 | 779.5 | 23205 | V | 11.37 | 3.27 | -2.91 | 11.73 | 34.77 |
| | | | H | 14.72 | 3.28 | -2.91 | 15.09 | 34.77 |
| | 782.0 | 23230 | V | 13.56 | 3.27 | -2.91 | 13.92 | 34.77 |
| | | | H | 17.09 | 3.28 | -2.91 | 17.47 | 34.77 |
| | 784.5 | 23255 | V | 13.41 | 3.28 | -2.91 | 13.79 | 34.77 |
| | | | H | 17.14 | 3.29 | -2.91 | 17.53 | 34.77 |
| BAND 13 BW: 5M 16QAM RB: 1,24 | 779.5 | 23205 | V | 13.23 | 3.28 | -2.91 | 13.60 | 34.77 |
| | | | H | 16.83 | 3.29 | -2.91 | 17.22 | 34.77 |
| | 782.0 | 23230 | V | 14.31 | 3.29 | -2.91 | 14.69 | 34.77 |
| | | | H | 18.08 | 3.30 | -2.91 | 18.47 | 34.77 |
| | 784.5 | 23255 | V | 13.93 | 3.29 | -2.91 | 14.32 | 34.77 |
| | | | H | 17.72 | 3.29 | -2.91 | 18.11 | 34.77 |

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 |
| BAND 13 BW: 10M QPSK RB: 1,0 | 782.0 | 23230 | V | 11.88 | 3.27 | -2.91 | 12.24 | 34.77 |
| | | | H | 15.04 | 3.27 | -2.91 | 15.40 | 34.77 |
| BAND 13 BW: 10M QPSK RB: 1,49 | 782.0 | 23230 | V | 13.83 | 3.29 | -2.91 | 14.22 | 34.77 |
| | | | H | 17.51 | 3.29 | -2.91 | 17.90 | 34.77 |
| BAND 13 BW: 10M 16QAM RB: 1,0 | 782.0 | 23230 | V | 11.86 | 3.27 | -2.91 | 12.22 | 34.77 |
| | | | H | 15.02 | 3.28 | -2.91 | 15.39 | 34.77 |
| BAND 13 BW: 10M 16QAM RB: 1,49 | 782.0 | 23230 | V | 13.99 | 3.29 | -2.91 | 14.38 | 34.77 |
| | | | H | 17.72 | 3.29 | -2.91 | 18.11 | 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 |
| BAND 17 BW: 5M QPSK RB: 1,0 | 706.5 | 23755 | V | 14.78 | 3.09 | -3.04 | 14.84 | 34.77 |
| | | | H | 20.69 | 3.09 | -3.04 | 20.75 | 34.77 |
| | 710.0 | 23790 | V | 14.06 | 3.09 | -3.04 | 14.12 | 34.77 |
| | | | H | 20.13 | 3.09 | -3.04 | 20.19 | 34.77 |
| | 713.5 | 23825 | V | 12.12 | 3.10 | -3.05 | 12.17 | 34.77 |
| | | | H | 18.32 | 3.10 | -3.05 | 18.37 | 34.77 |
| BAND 17 BW: 5M QPSK RB: 1,24 | 706.5 | 23755 | V | 13.46 | 3.10 | -3.04 | 13.52 | 34.77 |
| | | | H | 19.58 | 3.10 | -3.04 | 19.64 | 34.77 |
| | 710.0 | 23790 | V | 12.15 | 3.10 | -3.05 | 12.20 | 34.77 |
| | | | H | 18.40 | 3.10 | -3.05 | 18.45 | 34.77 |
| | 713.5 | 23825 | V | 12.92 | 3.11 | -3.06 | 12.97 | 34.77 |
| | | | H | 19.62 | 3.11 | -3.06 | 19.67 | 34.77 |
| BAND 17 BW: 5M 16QAM RB: 1,0 | 706.5 | 23755 | V | 15.12 | 3.09 | -3.04 | 15.18 | 34.77 |
| | | | H | 21.11 | 3.09 | -3.04 | 21.17 | 34.77 |
| | 710.0 | 23790 | V | 14.27 | 3.09 | -3.04 | 14.32 | 34.77 |
| | | | H | 20.38 | 3.09 | -3.04 | 20.43 | 34.77 |
| | 713.5 | 23825 | V | 12.24 | 3.10 | -3.05 | 12.29 | 34.77 |
| | | | H | 18.46 | 3.10 | -3.05 | 18.51 | 34.77 |
| BAND 17 BW: 5M 16QAM RB: 1,24 | 706.5 | 23755 | V | 13.72 | 3.10 | -3.04 | 13.77 | 34.77 |
| | | | H | 19.78 | 3.10 | -3.04 | 19.83 | 34.77 |
| | 710.0 | 23790 | V | 12.18 | 3.10 | -3.05 | 12.23 | 34.77 |
| | | | H | 18.47 | 3.10 | -3.05 | 18.52 | 34.77 |
| | 713.5 | 23825 | V | 13.08 | 3.11 | -3.06 | 13.13 | 34.77 |
| | | | H | 19.77 | 3.11 | -3.06 | 19.82 | 34.77 |

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 |
| BAND 17 BW: 10M QPSK RB: 1,0 | 709.0 | 23780 | V | 14.96 | 3.09 | -3.03 | 15.01 | 34.77 |
| | | | H | 20.92 | 3.09 | -3.04 | 20.97 | 34.77 |
| | 710.0 | 23790 | V | 15.26 | 3.09 | -3.03 | 15.31 | 34.77 |
| | | | H | 21.28 | 3.09 | -3.03 | 21.34 | 34.77 |
| | 711.0 | 23800 | V | 14.99 | 3.09 | -3.04 | 15.04 | 34.77 |
| | | | H | 21.07 | 3.09 | -3.04 | 21.12 | 34.77 |
| BAND 17 BW: 10M QPSK RB: 1,49 | 709.0 | 23780 | V | 12.51 | 3.11 | -3.06 | 12.56 | 34.77 |
| | | | H | 18.95 | 3.11 | -3.06 | 19.00 | 34.77 |
| | 710.0 | 23790 | V | 12.82 | 3.11 | -3.06 | 12.87 | 34.77 |
| | | | H | 19.39 | 3.11 | -3.06 | 19.44 | 34.77 |
| | 711.0 | 23800 | V | 12.93 | 3.11 | -3.06 | 12.98 | 34.77 |
| | | | H | 19.65 | 3.11 | -3.06 | 19.70 | 34.77 |
| BAND 17 BW: 10M 16QAM RB: 1,0 | 709.0 | 23780 | V | 15.02 | 3.09 | -3.04 | 15.07 | 34.77 |
| | | | H | 21.05 | 3.09 | -3.04 | 21.10 | 34.77 |
| | 710.0 | 23790 | V | 15.44 | 3.09 | -3.03 | 15.50 | 34.77 |
| | | | H | 21.63 | 3.09 | -3.03 | 21.69 | 34.77 |
| | 711.0 | 23800 | V | 15.29 | 3.09 | -3.03 | 15.34 | 34.77 |
| | | | H | 21.28 | 3.09 | -3.04 | 21.33 | 34.77 |
| BAND 17 BW: 10M 16QAM RB: 1,49 | 709.0 | 23780 | V | 12.67 | 3.11 | -3.06 | 12.72 | 34.77 |
| | | | H | 19.14 | 3.11 | -3.06 | 19.19 | 34.77 |
| | 710.0 | 23790 | V | 13.06 | 3.11 | -3.06 | 13.11 | 34.77 |
| | | | H | 19.69 | 3.11 | -3.06 | 19.74 | 34.77 |
| | 711.0 | 23800 | V | 13.13 | 3.11 | -3.06 | 13.18 | 34.77 |
| | | | H | 19.86 | 3.11 | -3.06 | 19.90 | 34.77 |

Remark :

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

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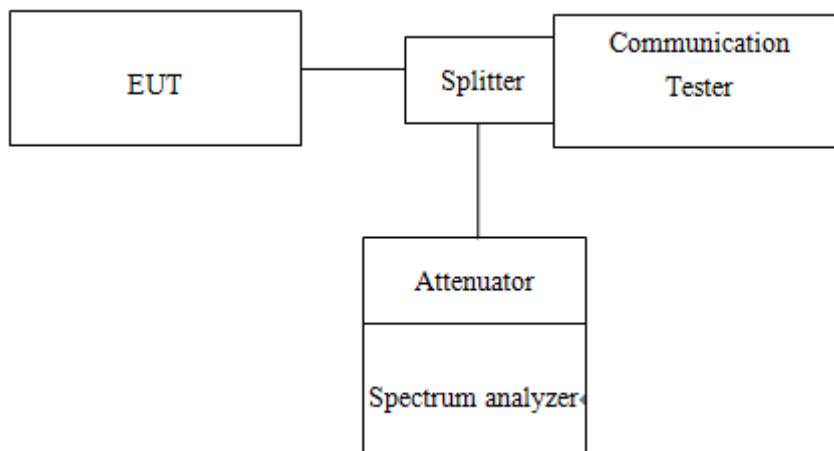
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8. OCCUPIED BANDWIDTH MEASUREMENT

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. |
| Power Meter | Anritsu | ML2495A | 1005007 | 12/09/2015 | 12/08/2016 |
| Power Sensor | Anritsu | MA2411B | 917032 | 12/09/2015 | 12/08/2016 |
| EXA Spectrum Analyzer | Agilent | N9030A | MY53120760 | 02/26/2016 | 20/25/2017 |
| DC Block | Mini-Circuits | BLK-18-S+ | 1 | 01/02/2016 | 01/01/2017 |
| Coaxial Cable | HUBER+SUHNER | SUCOFLEX 102 | 23670/2 | 01/02/2016 | 01/01/2017 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 2 | 01/02/2016 | 01/01/2017 |
| Splitter | Agilent | 11636B | N/A | 01/02/2016 | 01/01/2017 |
| DC Power Supply | Agilent | E3640A | MY52410006 | 11/05/2015 | 11/04/2016 |
| Temperature Chamber | TERCHY | MHG-120LF | 911009 | 05/17/2016 | 05/16/2017 |
| Radio Communication Analyzer | R&S | CMU200 | 102189 | 02/11/2016 | 02/10/2017 |
| Radio Communication Analyzer | Anritsu | MT8820C | 6200995019 | 09/25/2015 | 09/24/2016 |
| Radio Communication Analyzer | Anritsu | MT8820C | 6201465317 | 12/10/2015 | 12/09/2016 |

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8.5. Measurement Result

| Freq. (MHz) | CH | 99% BW (MHz) | 99% BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) |
|----------------|-----|--------------------|--------------------|----------------------|----------------------|
| | | GPRS 850 | EDGE 850 | GPRS 850 | EDGE 850 |
| 824.2 | 128 | 0.24430 | 0.24554 | 0.3223 | 0.3132 |
| 836.6 | 190 | 0.24399 | 0.24235 | 0.3202 | 0.3156 |
| 848.8 | 251 | 0.24240 | 0.24117 | 0.3175 | 0.3047 |

| Freq. (MHz) | CH | 99% BW (MHz) | 99% BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) |
|----------------|-----|--------------------|--------------------|----------------------|----------------------|
| | | GPRS 1900 | EDGE 1900 | GPRS 1900 | EDGE 1900 |
| 1850.2 | 512 | 0.24497 | 0.24812 | 0.3197 | 0.3168 |
| 1880.0 | 661 | 0.24410 | 0.24439 | 0.3119 | 0.3062 |
| 1909.8 | 810 | 0.24459 | 0.24234 | 0.3197 | 0.3015 |

| Freq. (MHz) | CH | 99% BW (MHz) | 99% BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) |
|----------------|-----|--------------------|--------------------|----------------------|----------------------|
| | | CDMA BC0 | EVDO BC0 | CDMA BC0 | EVDO BC0 |
| 824.2 | 128 | 1.2665 | 1.2697 | 1.415 | 1.416 |
| 836.6 | 190 | 1.2629 | 1.2691 | 1.415 | 1.412 |
| 848.8 | 251 | 1.2713 | 1.2696 | 1.413 | 1.418 |

| Freq. (MHz) | CH | 99% BW (MHz) | 99% BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) |
|----------------|-----|--------------------|--------------------|----------------------|----------------------|
| | | CDMA BC1 | EVDO BC1 | CDMA BC1 | EVDO BC1 |
| 1850.2 | 512 | 1.2740 | 1.2725 | 1.420 | 1.431 |
| 1880.0 | 661 | 1.2736 | 1.2774 | 1.418 | 1.419 |
| 1909.8 | 810 | 1.2806 | 1.2763 | 1.444 | 1.431 |

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| Freq. (MHz) | CH | 99% BW (MHz) | 99% BW (MHz) | 99% BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) |
|----------------|------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|
| | | WCDMA II | HSDPA II | HSUPA II | WCDMA II | HSDPA II | HSUPA II |
| 1850.20 | 9262 | 4.1477 | 4.1469 | 4.1391 | 4.623 | 4.616 | 4.626 |
| 1880.00 | 9400 | 4.1491 | 4.1492 | 4.1583 | 4.624 | 4.621 | 4.626 |
| 1909.80 | 9538 | 4.1483 | 4.1556 | 4.1465 | 4.626 | 4.629 | 4.619 |

| Freq. (MHz) | CH | 99% BW (MHz) | 99% BW (MHz) | 99% BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) |
|----------------|------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|
| | | WCDMA IV | HSDPA IV | HSUPA IV | WCDMA IV | HSDPA IV | HSUPA IV |
| 1712.40 | 1312 | 4.1510 | 4.1538 | 4.1562 | 4.628 | 4.610 | 4.624 |
| 1732.60 | 1413 | 4.1462 | 4.1514 | 4.1535 | 4.618 | 4.619 | 4.615 |
| 1752.60 | 1513 | 4.1551 | 4.1551 | 4.1598 | 4.629 | 4.617 | 4.631 |

| Freq. (MHz) | CH | 99% BW (MHz) | 99% BW (MHz) | 99% BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) |
|----------------|------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|
| | | WCDMA V | HSDPA V | HSUPA V | WCDMA V | HSDPA V | HSUPA V |
| 826.40 | 4132 | 4.1577 | 4.1577 | 4.1509 | 4.616 | 4.616 | 4.615 |
| 836.60 | 4183 | 4.1454 | 4.1626 | 4.1514 | 4.610 | 4.610 | 4.626 |
| 846.60 | 4233 | 4.1404 | 4.1409 | 4.1232 | 4.631 | 4.631 | 4.608 |

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| LTE BAND 2 Channel bandwidth: 1.4MHz | | | | | |
|--------------------------------------|-------|--------------------|--------------------|----------------------|----------------------|
| Freq. (MHz) | CH | 99% BW (MHz) | 99% BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1850.7 | 18607 | 1.0964 | 1.1046 | 1.292 | 1.316 |
| 1880.0 | 18900 | 1.0953 | 1.0967 | 1.301 | 1.280 |
| 1909.3 | 19193 | 1.0972 | 1.1059 | 1.289 | 1.293 |

| LTE BAND 2 Channel bandwidth: 3MHz | | | | | |
|------------------------------------|-------|--------------------|--------------------|----------------------|----------------------|
| Freq. (MHz) | CH | 99% BW (MHz) | 99% BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1851.5 | 18615 | 2.7065 | 2.7083 | 2.981 | 3.000 |
| 1880.0 | 18900 | 2.7098 | 2.7047 | 2.981 | 2.992 |
| 1908.5 | 19185 | 2.7099 | 2.7069 | 2.979 | 2.980 |

| LTE BAND 2 Channel bandwidth: 5MHz | | | | | |
|------------------------------------|-------|--------------------|--------------------|----------------------|----------------------|
| Freq. (MHz) | CH | 99% BW (MHz) | 99% BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1852.5 | 18625 | 4.5038 | 4.5067 | 4.978 | 4.956 |
| 1880.0 | 18900 | 4.5104 | 4.5126 | 5.036 | 5.032 |
| 1907.5 | 19175 | 4.5113 | 4.5112 | 4.976 | 5.015 |

| LTE BAND 2 Channel bandwidth: 10MHz | | | | | |
|-------------------------------------|-------|--------------------|--------------------|----------------------|----------------------|
| Freq. (MHz) | CH | 99% BW (MHz) | 99% BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1855.0 | 18650 | 8.9895 | 8.9454 | 9.924 | 9.735 |
| 1880.0 | 18900 | 9.0010 | 8.9560 | 9.911 | 9.829 |
| 1905.0 | 19150 | 9.0068 | 8.9569 | 9.847 | 9.749 |

| LTE BAND 2 Channel bandwidth: 15MHz | | | | | |
|-------------------------------------|-------|--------------------|--------------------|----------------------|----------------------|
| Freq. (MHz) | CH | 99% BW (MHz) | 99% BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1857.5 | 18675 | 13.439 | 13.431 | 14.69 | 14.68 |
| 1880.0 | 18900 | 13.421 | 13.441 | 14.65 | 14.71 |
| 1902.5 | 19125 | 13.472 | 13.449 | 14.66 | 14.68 |

| LTE BAND 2 Channel bandwidth: 20MHz | | | | | |
|-------------------------------------|-------|--------------------|--------------------|----------------------|----------------------|
| Freq. (MHz) | CH | 99% BW (MHz) | 99% BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1860.0 | 18700 | 17.865 | 17.856 | 19.33 | 19.33 |
| 1880.0 | 18900 | 17.887 | 17.872 | 19.37 | 19.37 |
| 1900.0 | 19100 | 17.901 | 17.922 | 19.39 | 19.44 |

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| LTE BAND 4 Channel bandwidth: 1.4MHz | | | | | |
|--------------------------------------|-------|--------------------|--------------------|----------------------|----------------------|
| Freq. (MHz) | CH | 99% BW (MHz) | 99% BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1710.7 | 19957 | 1.0996 | 1.0998 | 1.295 | 1.314 |
| 1732.5 | 20175 | 1.0973 | 1.1038 | 1.270 | 1.298 |
| 1754.3 | 20393 | 1.1038 | 1.0982 | 1.285 | 1.287 |

| LTE BAND 4 Channel bandwidth: 3MHz | | | | | |
|------------------------------------|-------|--------------------|--------------------|----------------------|----------------------|
| Freq. (MHz) | CH | 99% BW (MHz) | 99% BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1711.5 | 19965 | 2.7053 | 2.7053 | 2.995 | 2.998 |
| 1732.5 | 20175 | 2.7014 | 2.7076 | 2.967 | 3.002 |
| 1753.5 | 20385 | 2.7018 | 2.7107 | 3.009 | 2.998 |

| LTE BAND 4 Channel bandwidth: 5MHz | | | | | |
|------------------------------------|-------|--------------------|--------------------|----------------------|----------------------|
| Freq. (MHz) | CH | 99% BW (MHz) | 99% BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1712.5 | 19957 | 4.5052 | 4.4902 | 4.997 | 4.985 |
| 1732.5 | 20175 | 4.5030 | 4.4959 | 5.003 | 4.984 |
| 1752.5 | 20375 | 4.4985 | 4.5039 | 5.033 | 4.969 |

| LTE BAND 4 Channel bandwidth: 10MHz | | | | | |
|-------------------------------------|-------|--------------------|--------------------|----------------------|----------------------|
| Freq. (MHz) | CH | 99% BW (MHz) | 99% BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1715.0 | 20000 | 8.9884 | 8.9551 | 9.846 | 9.810 |
| 1732.5 | 20175 | 8.9891 | 8.9649 | 9.814 | 9.750 |
| 1750.0 | 20350 | 8.9901 | 8.9586 | 9.855 | 9.760 |

| LTE BAND 4 Channel bandwidth: 15MHz | | | | | |
|-------------------------------------|-------|--------------------|--------------------|----------------------|----------------------|
| Freq. (MHz) | CH | 99% BW (MHz) | 99% BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1717.5 | 20025 | 13.465 | 13.456 | 14.59 | 14.64 |
| 1732.5 | 20175 | 13.469 | 13.434 | 14.50 | 14.53 |
| 1747.5 | 20325 | 13.465 | 13.459 | 14.67 | 14.66 |

| LTE BAND 4 Channel bandwidth: 20MHz | | | | | |
|-------------------------------------|-------|--------------------|--------------------|----------------------|----------------------|
| Freq. (MHz) | CH | 99% BW (MHz) | 99% BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1720.0 | 20050 | 17.861 | 17.902 | 19.35 | 19.28 |
| 1732.5 | 20175 | 17.860 | 17.854 | 19.30 | 19.26 |
| 1745.0 | 20300 | 17.902 | 17.912 | 19.35 | 19.32 |

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| LTE BAND 5 Channel bandwidth: 1.4MHz | | | | | |
|--------------------------------------|-------|--------------------|--------------------|----------------------|----------------------|
| Freq. (MHz) | CH | 99% BW (MHz) | 99% BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 824.7 | 20407 | 1.0980 | 1.1002 | 1.270 | 1.300 |
| 836.5 | 20525 | 1.0974 | 1.0960 | 1.286 | 1.309 |
| 848.3 | 20643 | 1.0974 | 1.1040 | 1.299 | 1.278 |

| LTE BAND 5 Channel bandwidth: 3MHz | | | | | |
|------------------------------------|-------|--------------------|--------------------|----------------------|----------------------|
| Freq. (MHz) | CH | 99% BW (MHz) | 99% BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 825.5 | 20415 | 2.7099 | 2.7059 | 3.004 | 2.985 |
| 836.5 | 20525 | 2.7136 | 2.7025 | 2.993 | 2.992 |
| 847.5 | 20635 | 2.7104 | 2.7080 | 3.010 | 2.995 |

| LTE BAND 5 Channel bandwidth: 5MHz | | | | | |
|------------------------------------|-------|--------------------|--------------------|----------------------|----------------------|
| Freq. (MHz) | CH | 99% BW (MHz) | 99% BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 826.5 | 20425 | 4.4862 | 4.5010 | 4.993 | 4.929 |
| 836.5 | 20525 | 4.5058 | 4.4947 | 5.015 | 5.007 |
| 846.5 | 20625 | 4.4958 | 4.4977 | 4.999 | 4.968 |

| LTE BAND 5 Channel bandwidth: 10MHz | | | | | |
|-------------------------------------|-------|--------------------|--------------------|----------------------|----------------------|
| Freq. (MHz) | CH | 99% BW (MHz) | 99% BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 829.0 | 20450 | 8.9787 | 8.9831 | 9.933 | 10.160 |
| 836.5 | 20525 | 9.0250 | 9.0080 | 9.904 | 9.852 |
| 844.0 | 20600 | 8.9577 | 8.9499 | 9.770 | 9.767 |

| LTE BAND 7 Channel bandwidth: 5MHz | | | | | |
|------------------------------------|-------|--------------------|--------------------|----------------------|----------------------|
| Freq. (MHz) | CH | 99% BW (MHz) | 99% BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 2502.5 | 20775 | 4.5086 | 4.5125 | 5.007 | 5.008 |
| 2535.0 | 21100 | 4.5097 | 4.5048 | 5.023 | 5.017 |
| 2567.5 | 21425 | 4.5146 | 4.5048 | 5.013 | 4.965 |

| LTE BAND 7 Channel bandwidth: 10MHz | | | | | |
|-------------------------------------|-------|--------------------|--------------------|----------------------|----------------------|
| Freq. (MHz) | CH | 99% BW (MHz) | 99% BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 2505.0 | 20800 | 9.0066 | 8.9622 | 9.914 | 9.769 |
| 2535.0 | 21100 | 8.9863 | 8.9600 | 9.801 | 9.742 |
| 2565.0 | 21400 | 8.9887 | 8.9806 | 9.915 | 9.863 |

| LTE BAND 7 Channel bandwidth: 15MHz | | | | | |
|-------------------------------------|-------|--------------------|--------------------|----------------------|----------------------|
| Freq. (MHz) | CH | 99% BW (MHz) | 99% BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 2507.5 | 20825 | 13.430 | 13.447 | 14.67 | 14.61 |
| 2535.0 | 21100 | 13.471 | 13.479 | 14.54 | 14.63 |
| 2562.5 | 21375 | 13.433 | 13.465 | 14.20 | 14.34 |

| LTE BAND 7 Channel bandwidth: 20MHz | | | | | |
|-------------------------------------|-------|--------------------|--------------------|----------------------|----------------------|
| Freq. (MHz) | CH | 99% BW (MHz) | 99% BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 2510.0 | 20850 | 17.874 | 17.861 | 18.97 | 18.95 |
| 2535.0 | 21100 | 17.928 | 17.885 | 18.95 | 18.87 |
| 2560.0 | 21350 | 17.864 | 17.900 | 19.00 | 18.88 |

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| LTE BAND 12 Channel bandwidth: 1.4MHz | | | | | |
|---------------------------------------|-------|--------------------|--------------------|----------------------|----------------------|
| Freq. (MHz) | CH | 99% BW (MHz) | 99% BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 699.7 | 23017 | 1.1083 | 1.0961 | 1.238 | 1.244 |
| 707.5 | 23095 | 1.1007 | 1.1036 | 1.267 | 1.291 |
| 715.3 | 23173 | 1.1031 | 1.1042 | 1.563 | 1.314 |

| LTE BAND 12 Channel bandwidth: 3MHz | | | | | |
|-------------------------------------|-------|--------------------|--------------------|----------------------|----------------------|
| Freq. (MHz) | CH | 99% BW (MHz) | 99% BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 700.5 | 23025 | 2.7050 | 2.7005 | 2.977 | 2.975 |
| 707.5 | 23095 | 2.7166 | 2.7036 | 2.985 | 2.988 |
| 714.5 | 23165 | 2.7117 | 2.7085 | 3.011 | 2.997 |

| LTE BAND 12 Channel bandwidth: 5MHz | | | | | |
|-------------------------------------|-------|--------------------|--------------------|----------------------|----------------------|
| Freq. (MHz) | CH | 99% BW (MHz) | 99% BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 701.5 | 23035 | 4.5173 | 4.5105 | 5.027 | 4.998 |
| 707.5 | 23095 | 4.5073 | 4.5049 | 5.021 | 5.012 |
| 713.5 | 23155 | 4.5310 | 4.5178 | 5.023 | 5.041 |

| LTE BAND 12 Channel bandwidth: 10MHz | | | | | |
|--------------------------------------|-------|--------------------|--------------------|----------------------|----------------------|
| Freq. (MHz) | CH | 99% BW (MHz) | 99% BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 704.0 | 23060 | 9.0578 | 9.0390 | 9.962 | 9.904 |
| 707.5 | 23095 | 9.0229 | 8.9576 | 9.846 | 9.711 |
| 711.0 | 23130 | 8.9710 | 8.9476 | 9.783 | 9.868 |

| LTE BAND 13 Channel bandwidth: 5MHz | | | | | |
|-------------------------------------|-------|--------------------|--------------------|----------------------|----------------------|
| Freq. (MHz) | CH | 99% BW (MHz) | 99% BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 701.5 | 23035 | 4.9910 | 4.5059 | 5.037 | 4.987 |
| 707.5 | 23095 | 4.5134 | 4.5105 | 5.036 | 5.000 |
| 713.5 | 23155 | 4.5012 | 4.5073 | 4.998 | 5.030 |

| LTE BAND 13 Channel bandwidth: 10MHz | | | | | |
|--------------------------------------|-------|--------------------|--------------------|----------------------|----------------------|
| Freq. (MHz) | CH | 99% BW (MHz) | 99% BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 782.0 | 23230 | 8.9979 | 8.9482 | 9.802 | 9.746 |

| LTE BAND 17 Channel bandwidth: 5MHz | | | | | |
|-------------------------------------|-------|--------------------|--------------------|----------------------|----------------------|
| Freq. (MHz) | CH | 99% BW (MHz) | 99% BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 706.5 | 23755 | 4.5176 | 4.5164 | 4.812 | 5.006 |
| 710.0 | 23790 | 4.5022 | 4.4931 | 5.037 | 5.002 |
| 713.5 | 23825 | 4.4773 | 4.5231 | 4.812 | 4.991 |

| LTE BAND 17 Channel bandwidth: 10MHz | | | | | |
|--------------------------------------|-------|--------------------|--------------------|----------------------|----------------------|
| Freq. (MHz) | CH | 99% BW (MHz) | 99% BW (MHz) | 26 dB BW (MHz) | 26 dB BW (MHz) |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 709.0 | 23780 | 9.0012 | 8.9443 | 9.781 | 9.756 |
| 710.0 | 23790 | 8.9857 | 8.9415 | 9.756 | 9.764 |
| 711.0 | 23780 | 8.9762 | 8.9504 | 9.869 | 9.802 |

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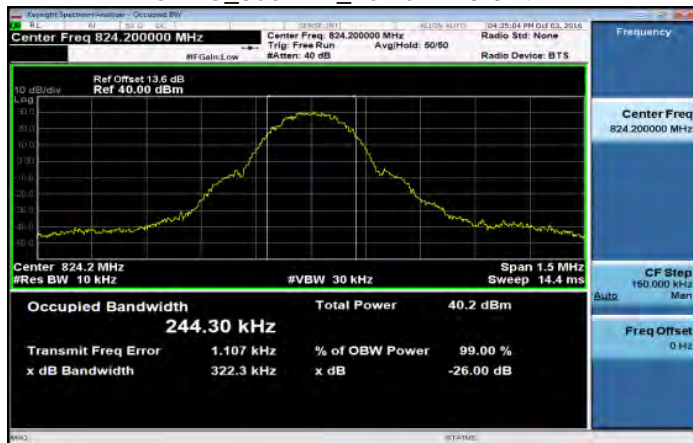
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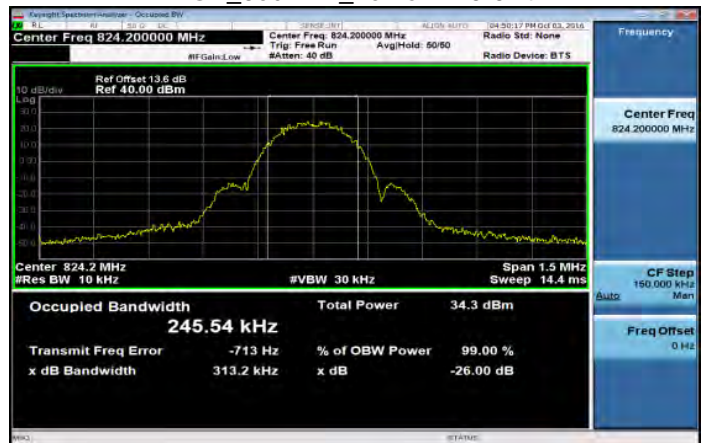
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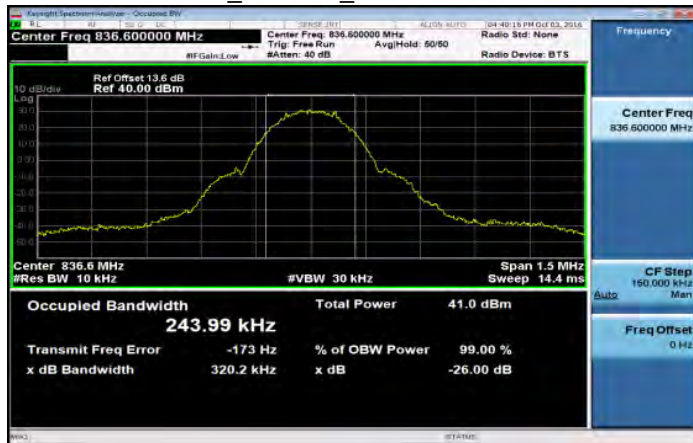
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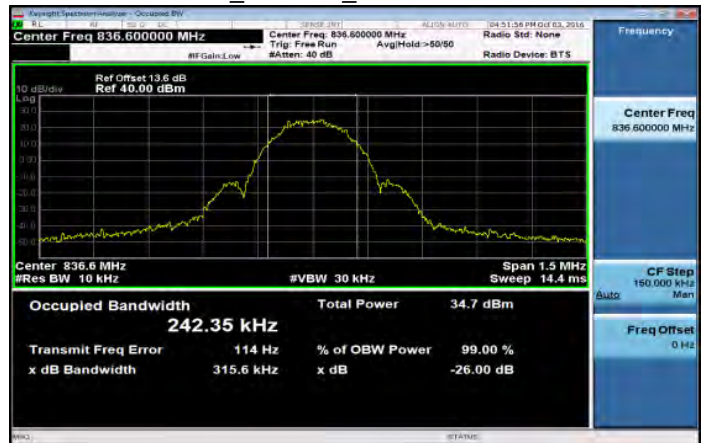
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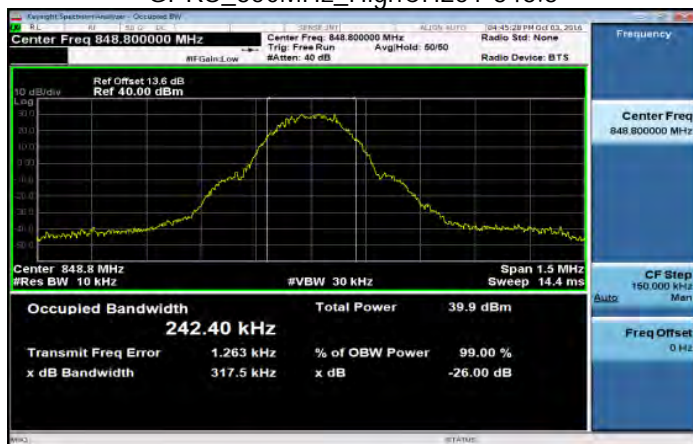
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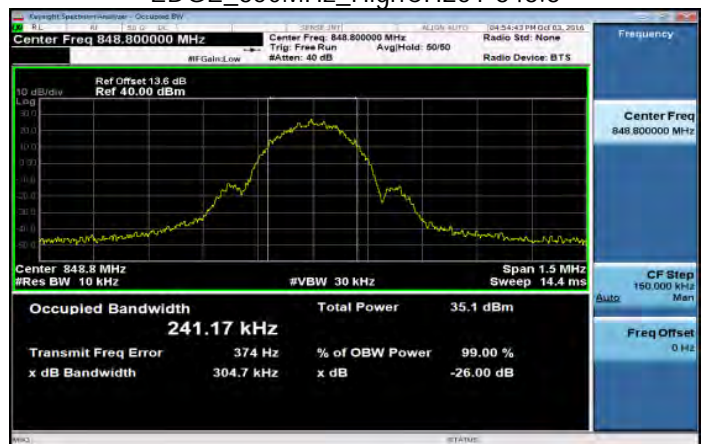
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GPRS_850MHz_HighCH251-848.8



EDGE_850MHz_HighCH251-848.8



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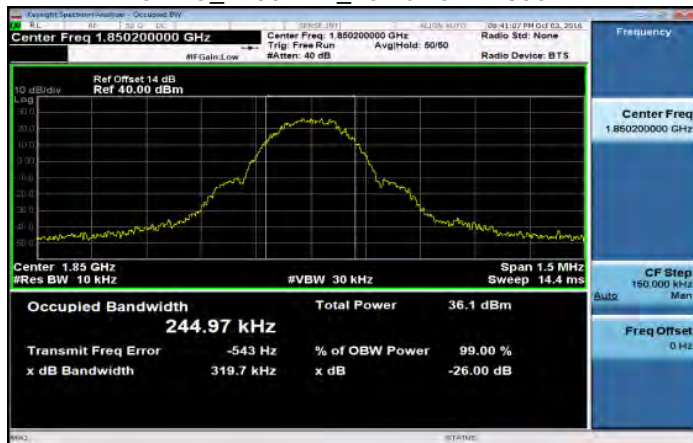
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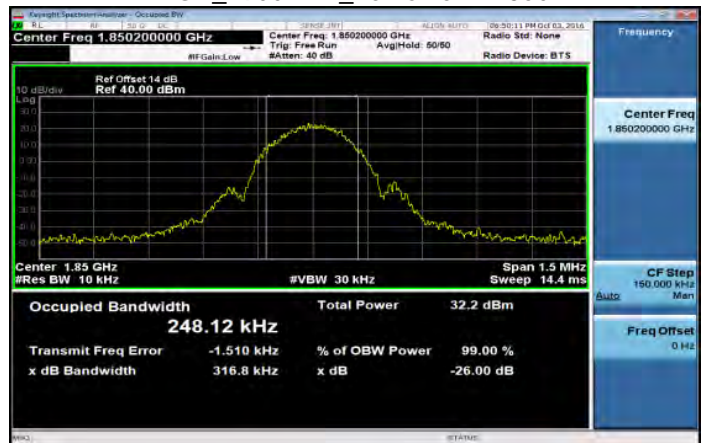
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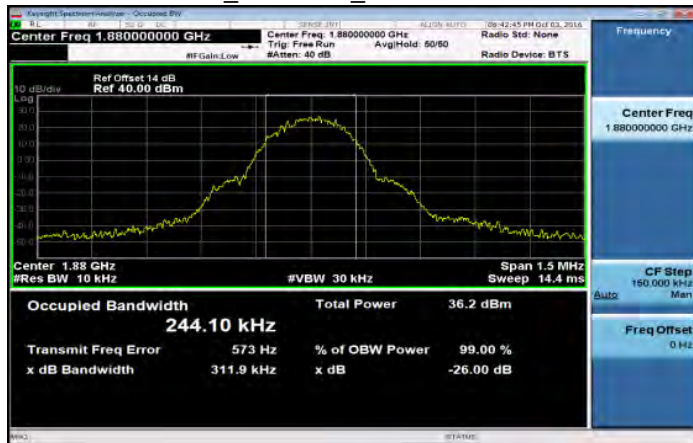
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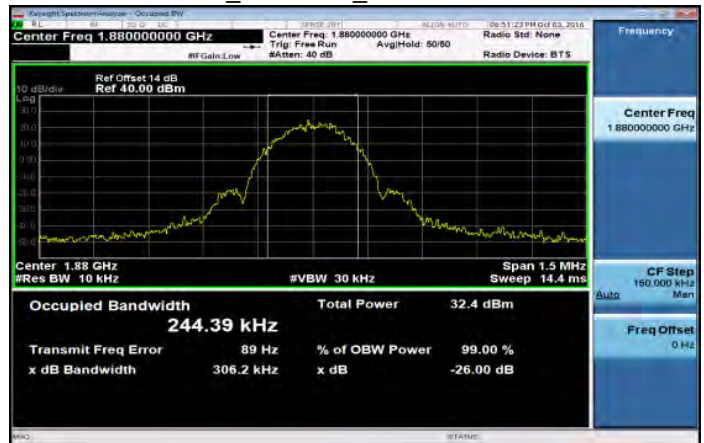
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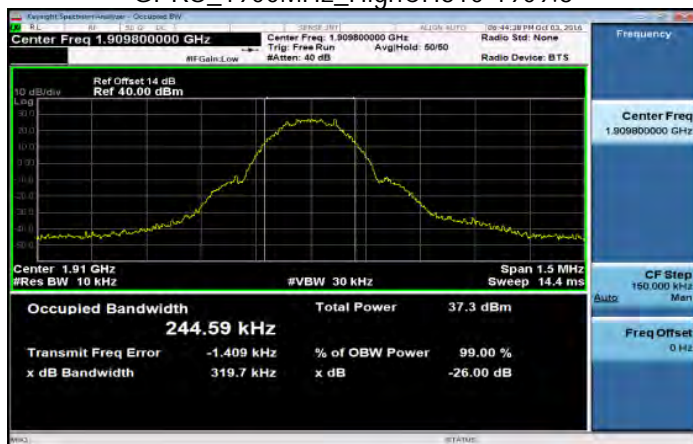
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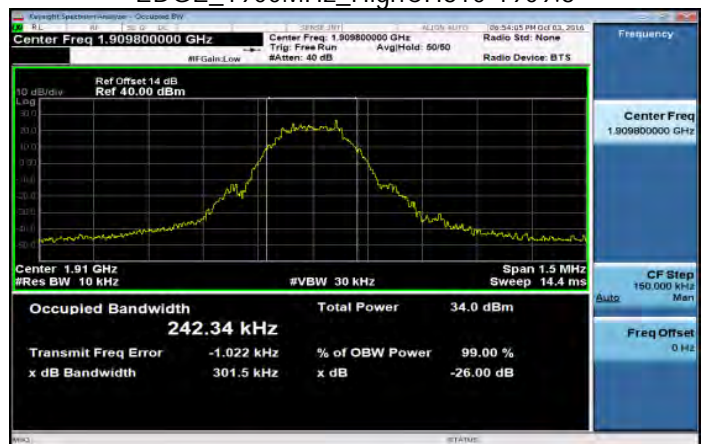
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GPRS_1900MHz_HighCH810-1909.8



EDGE_1900MHz_HighCH810-1909.8



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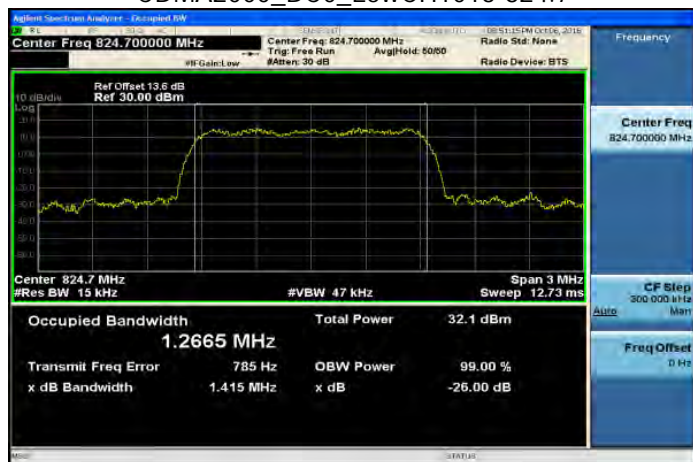
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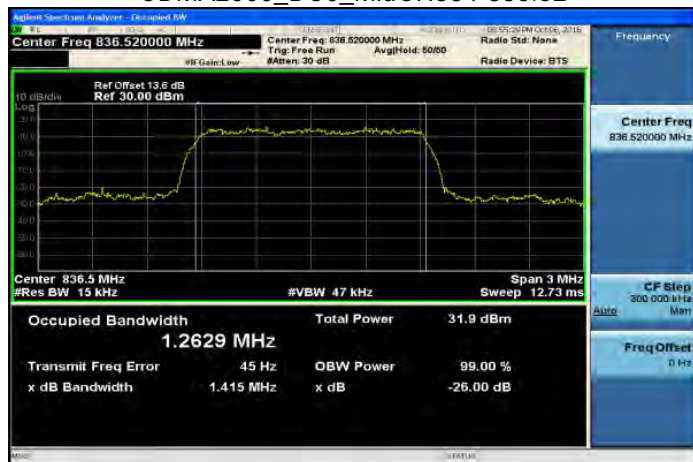
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EVDO_BC0_LowCH1013-824.7



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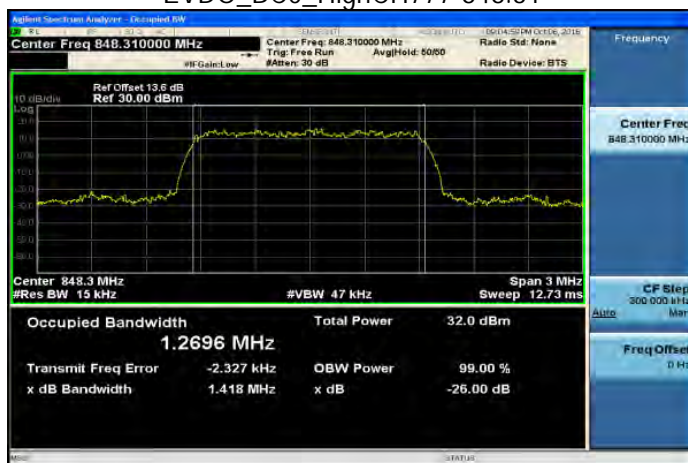
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CDMA2000_BC0_HighCH777-848.31



EVDO_BC0_HighCH777-848.31



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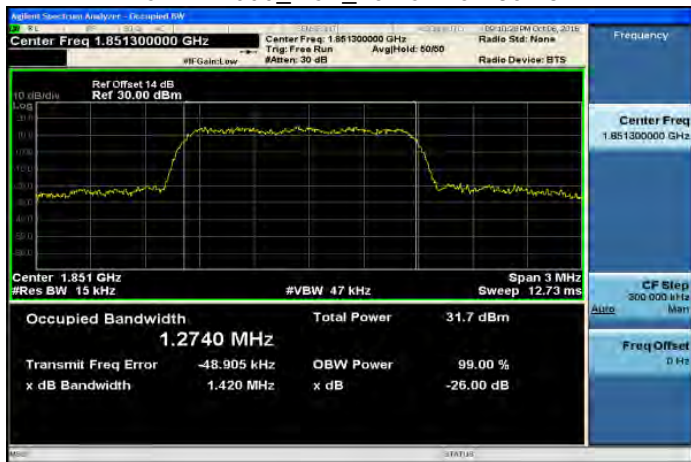
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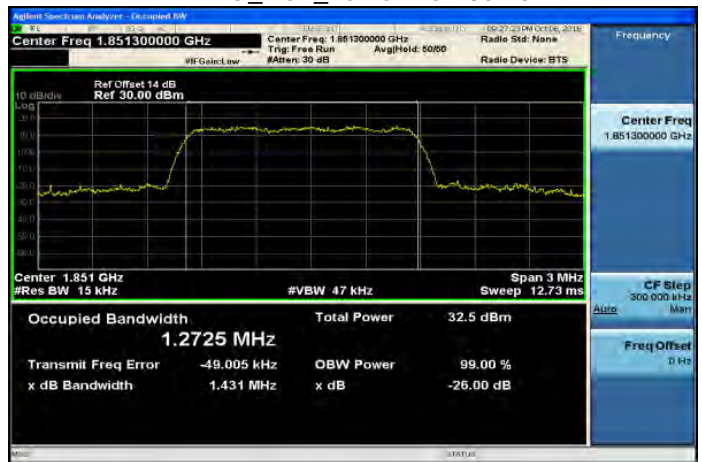
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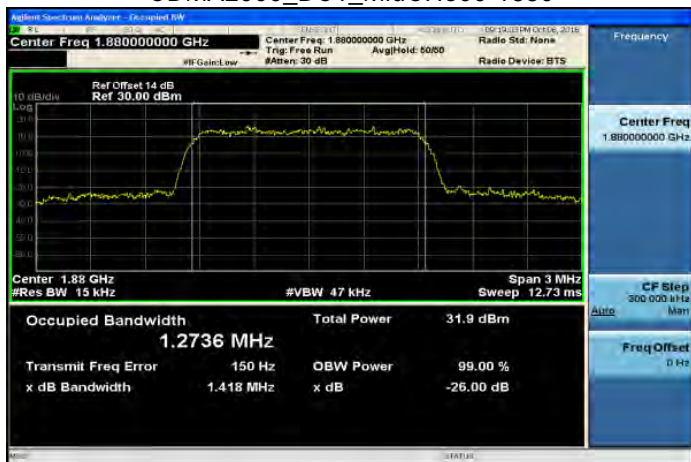
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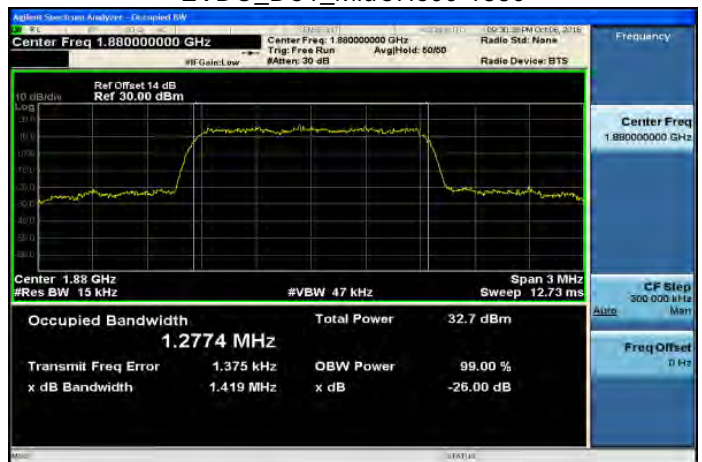
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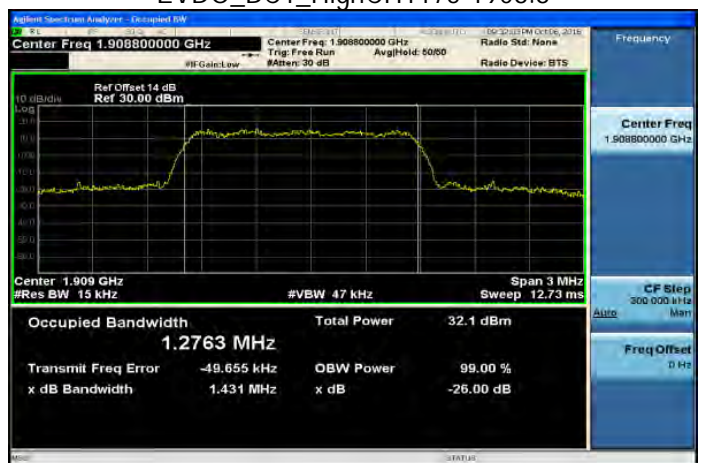
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CDMA2000_BC1_HighCH1175-1908.8



EVDO_BC1_HighCH1175-1908.8



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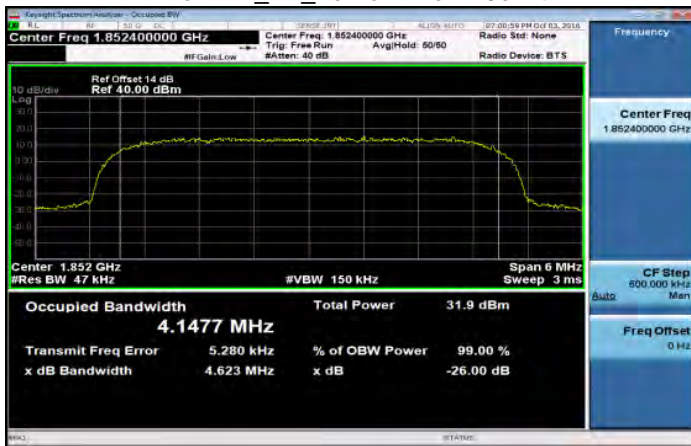
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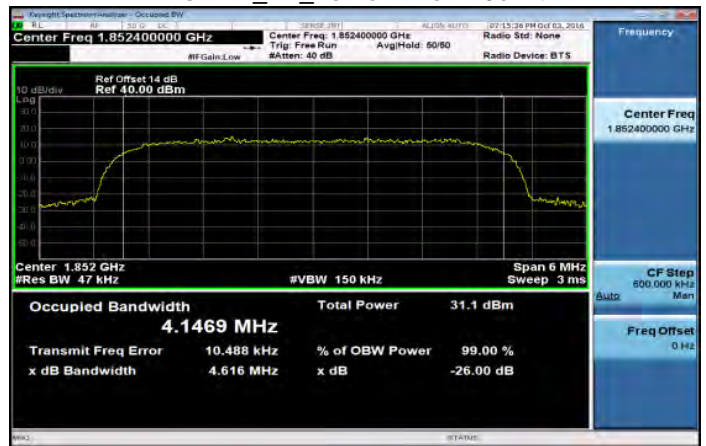
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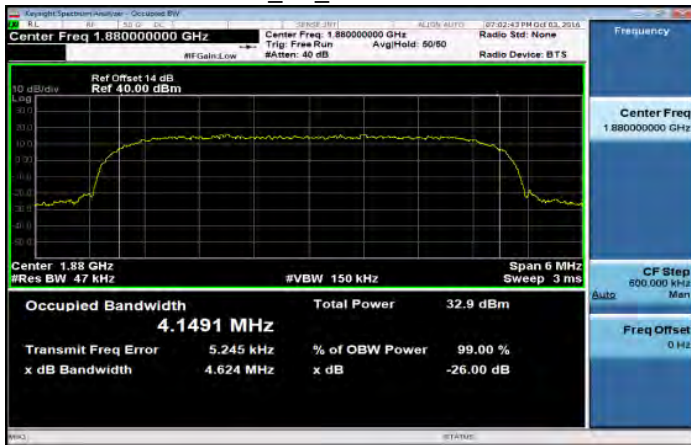
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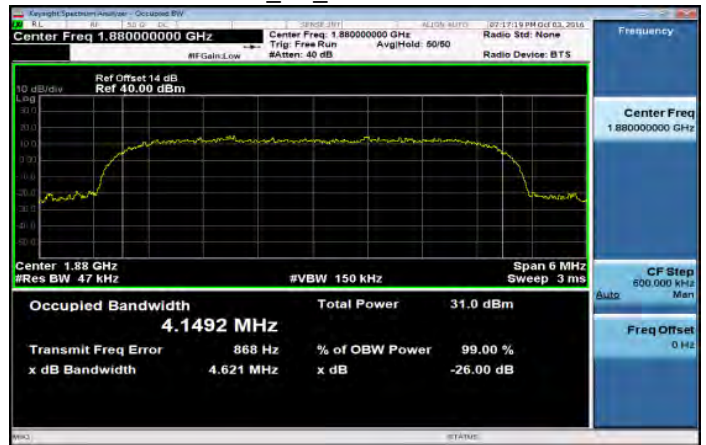
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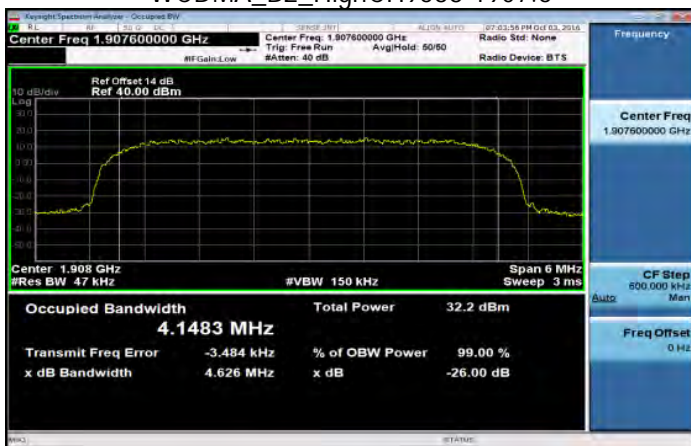
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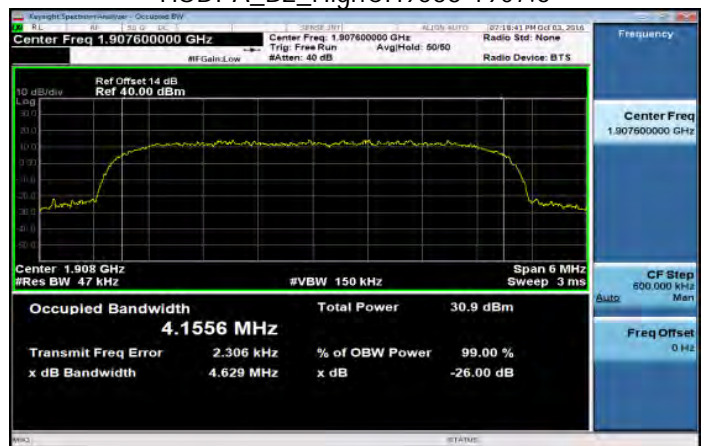
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HSDPA_B2_HighCH9538-1907.6



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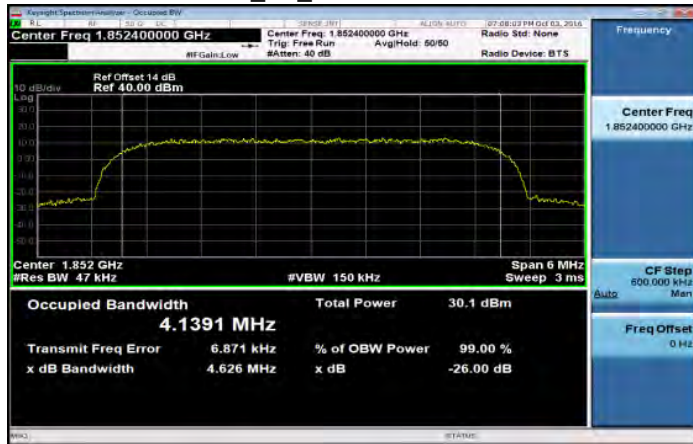
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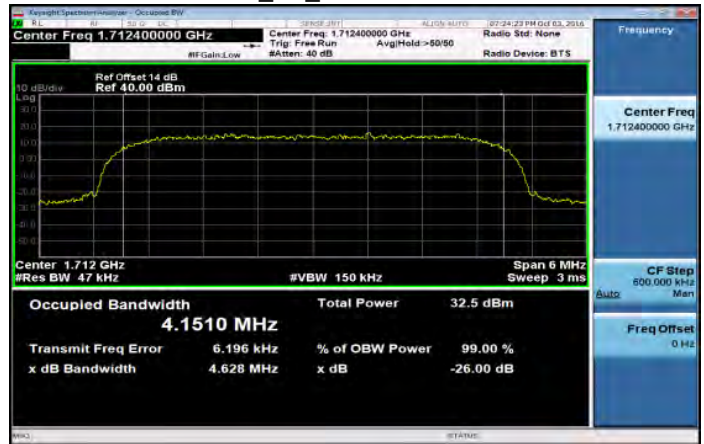
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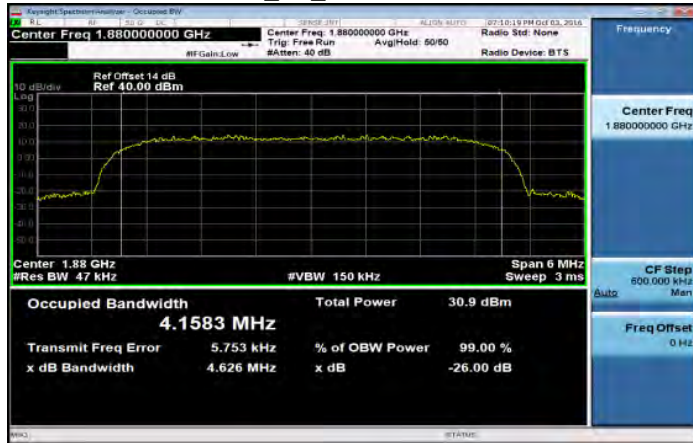
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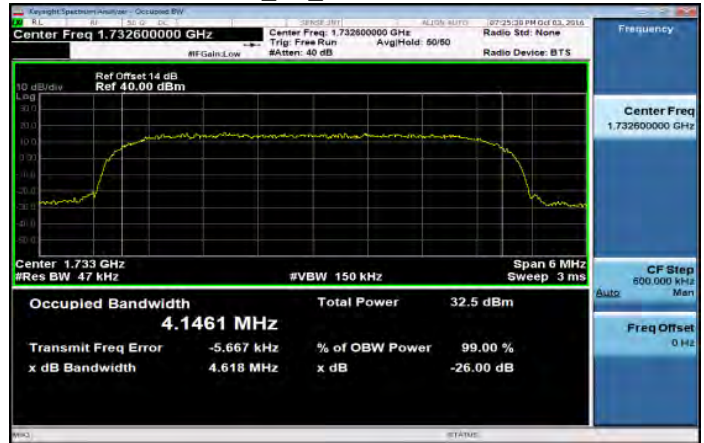
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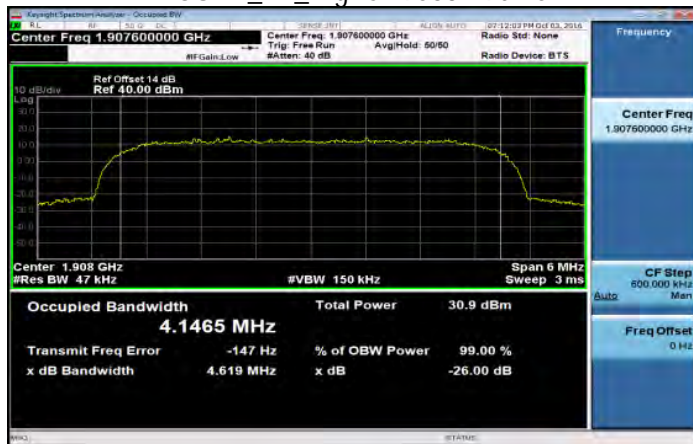
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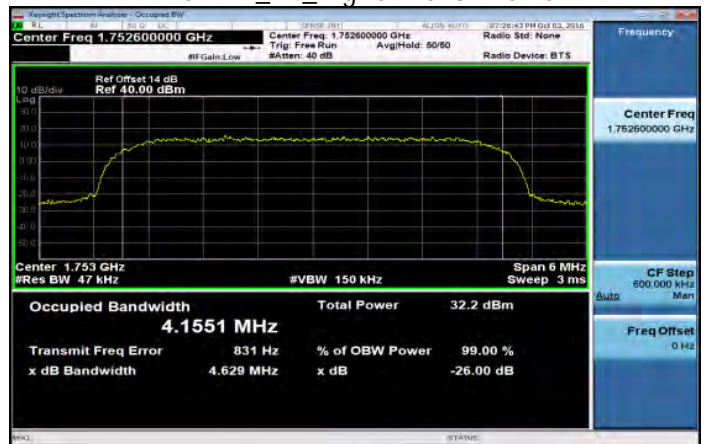
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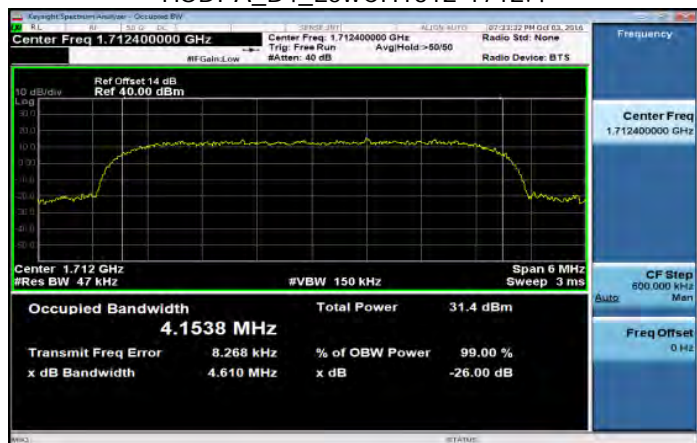
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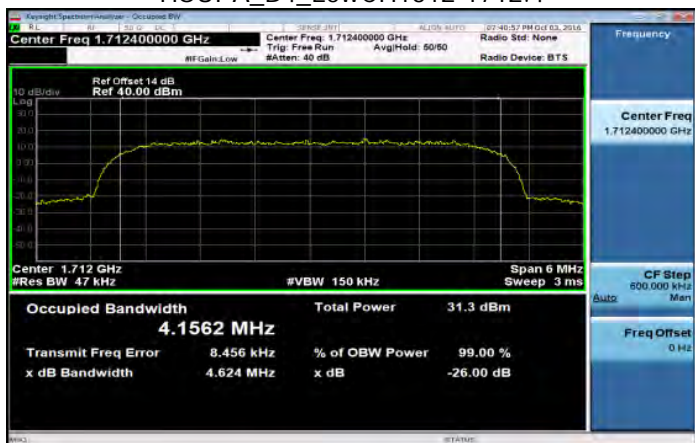
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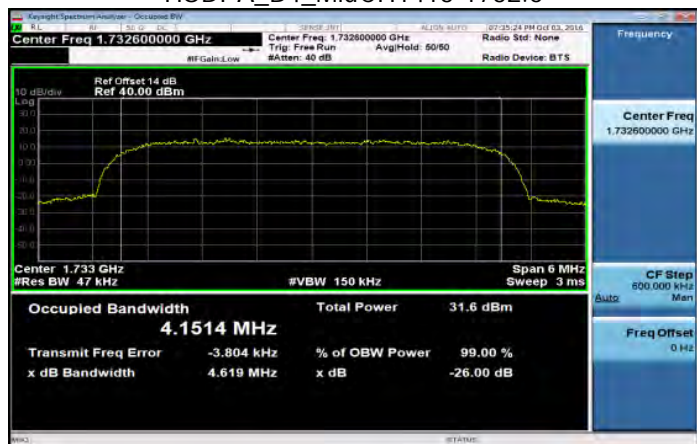
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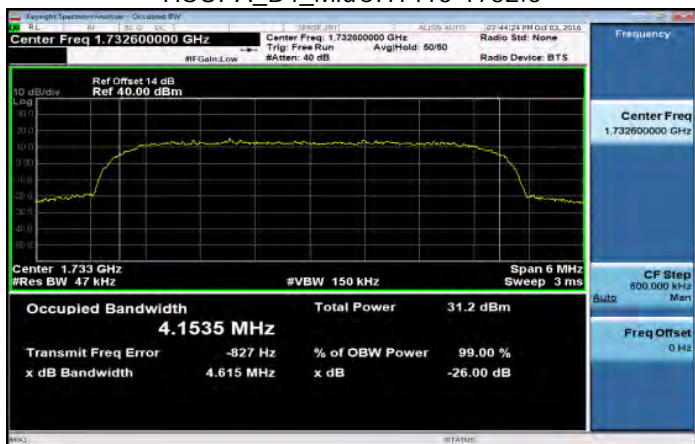
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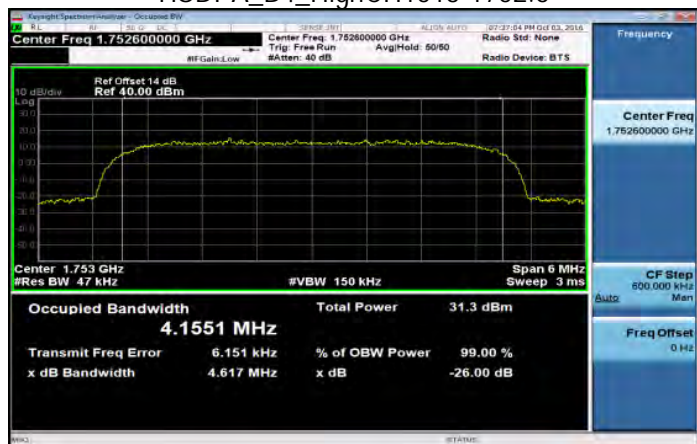
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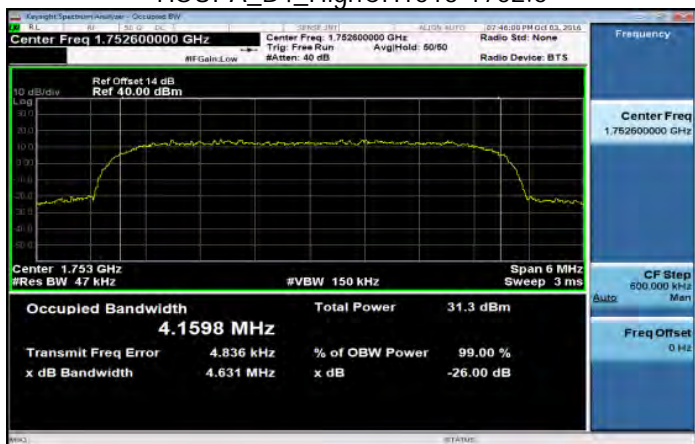
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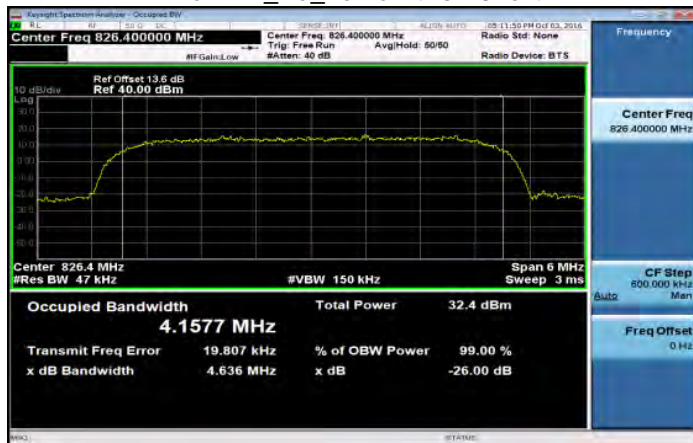
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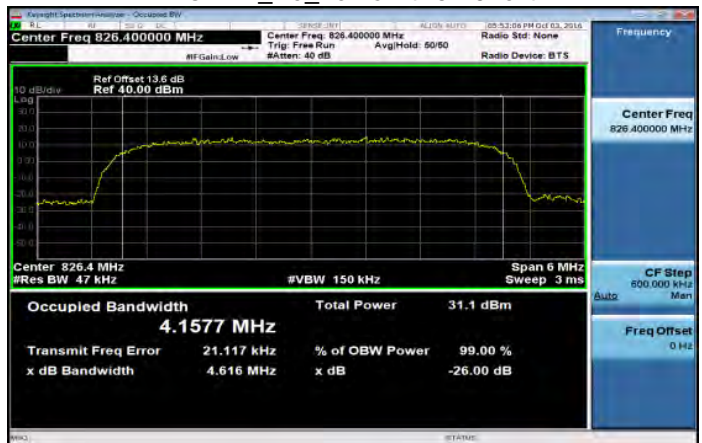
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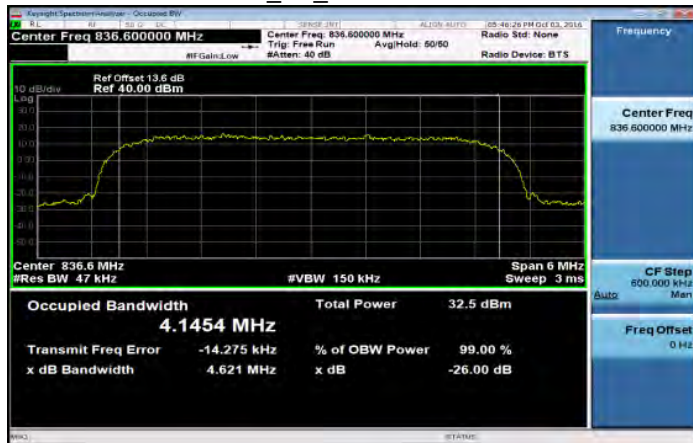
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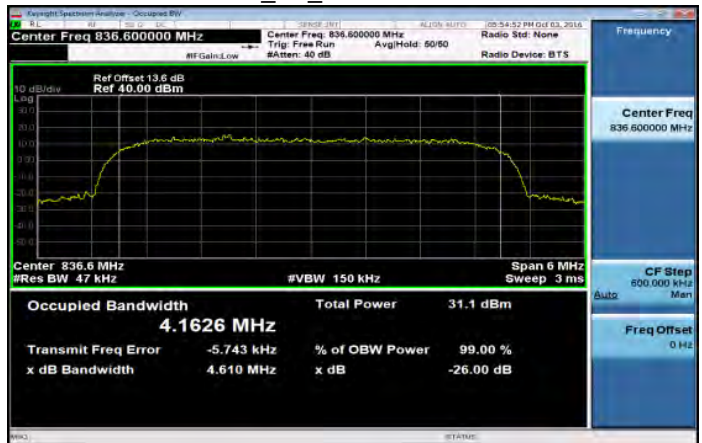
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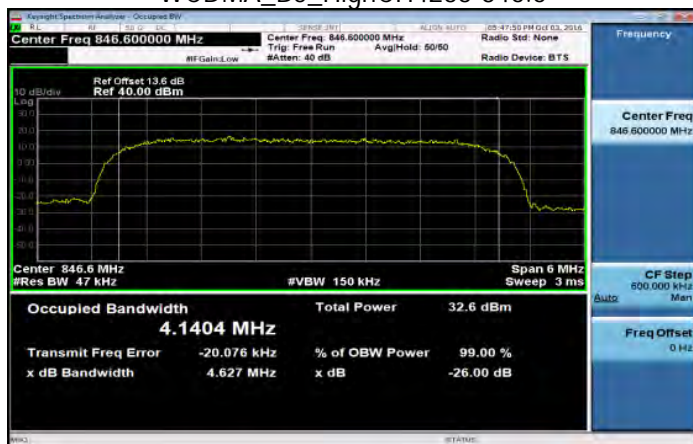
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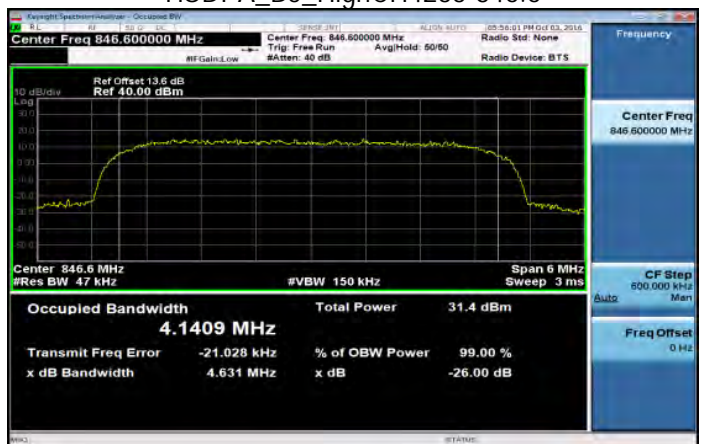
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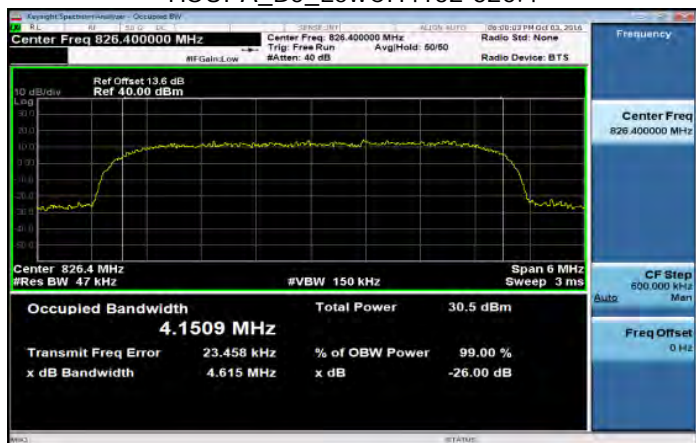
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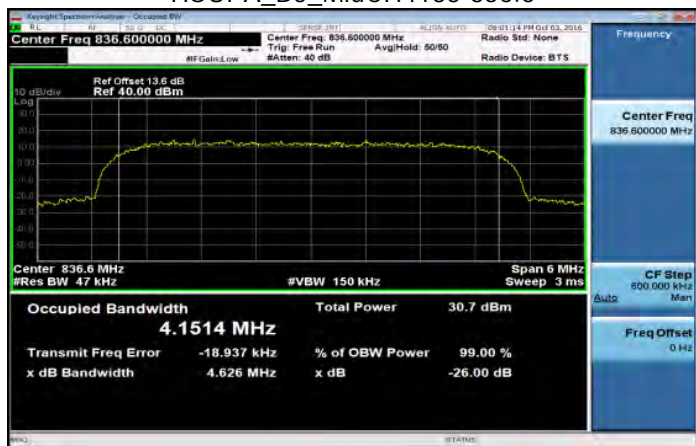
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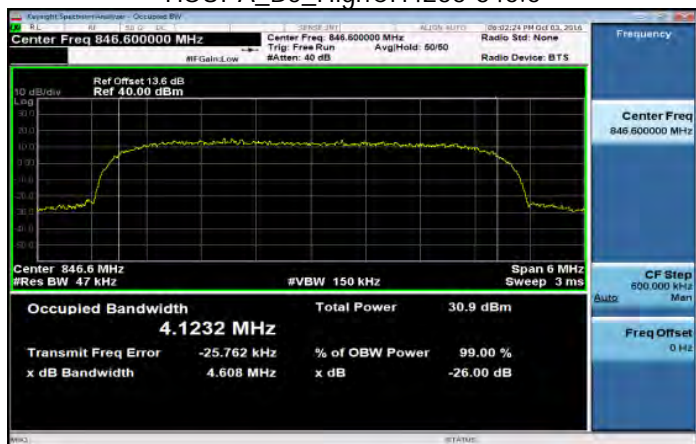
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HSUPA_B5_HighCH4233-846.6



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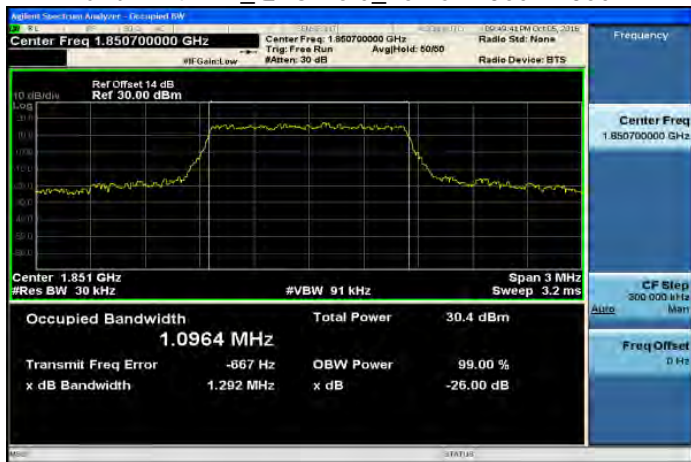
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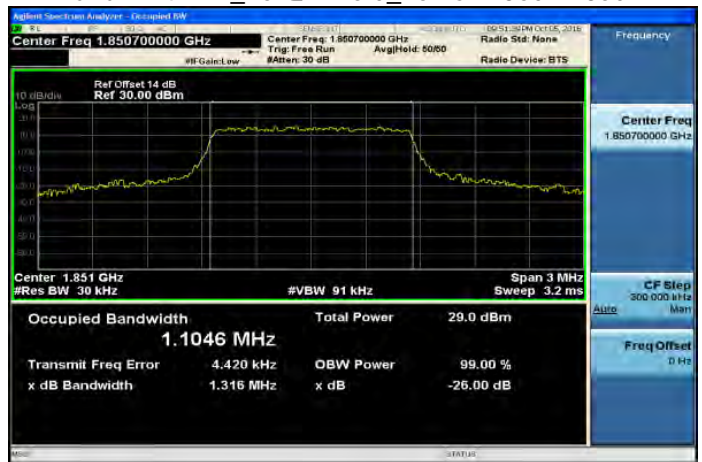
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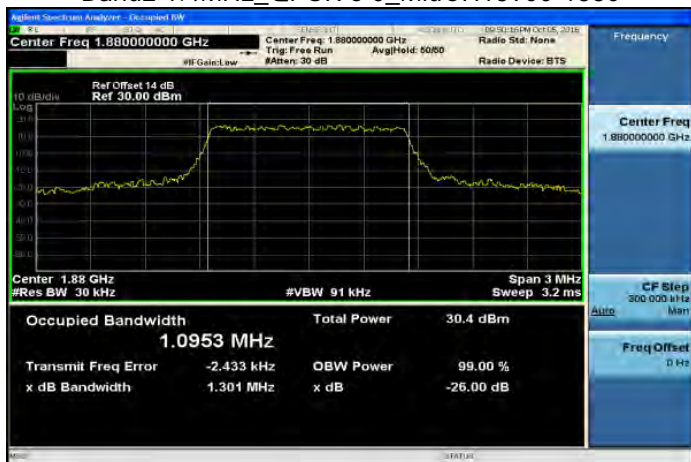
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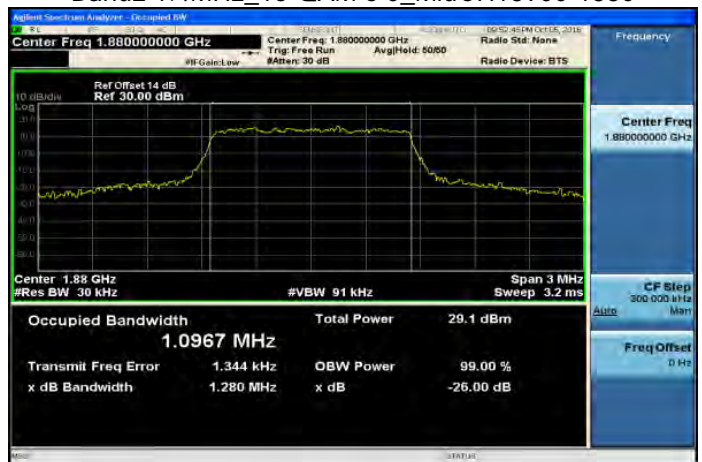
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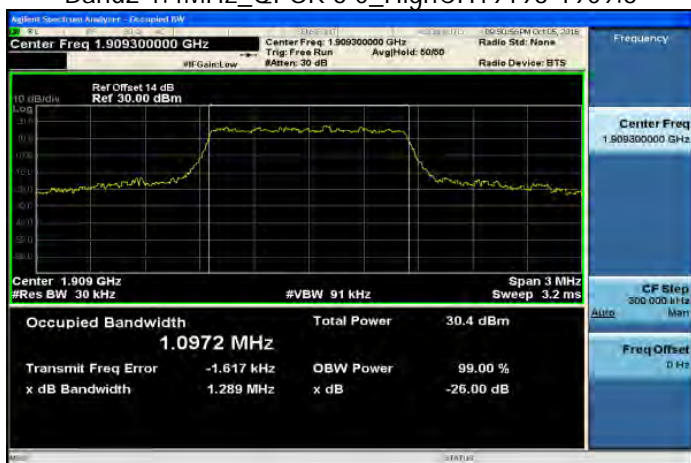
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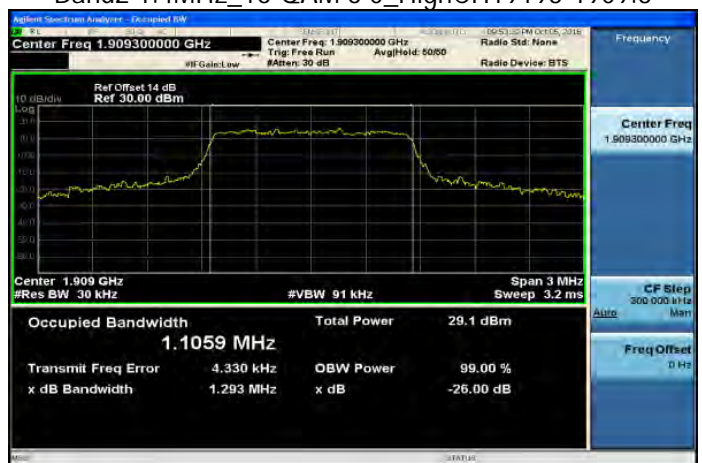
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Band2 1.4MHz_QPSK 6 0_HighCH19193-1909.3



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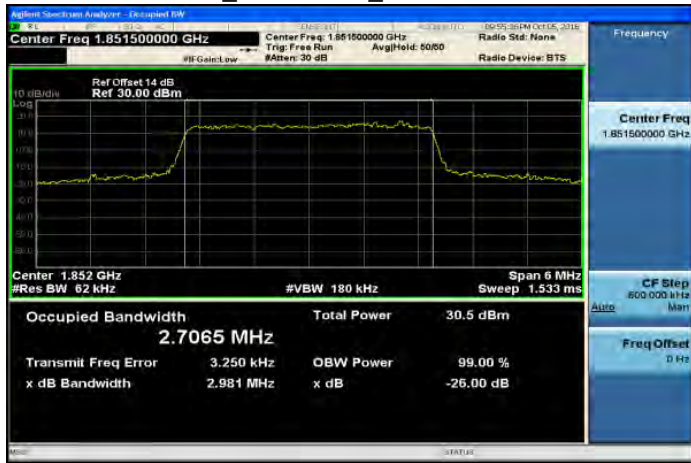
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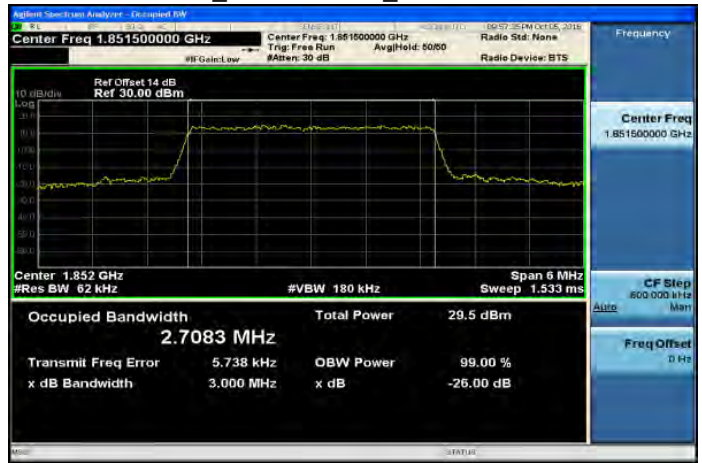
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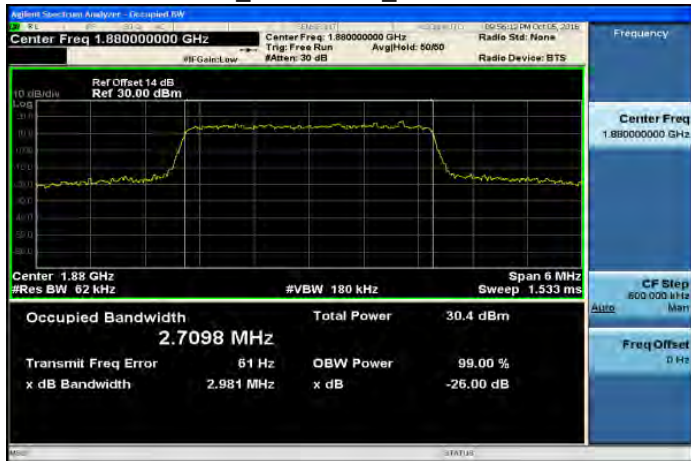
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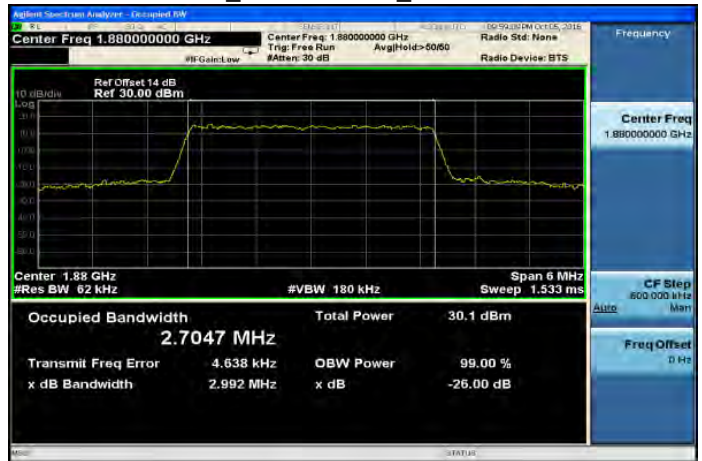
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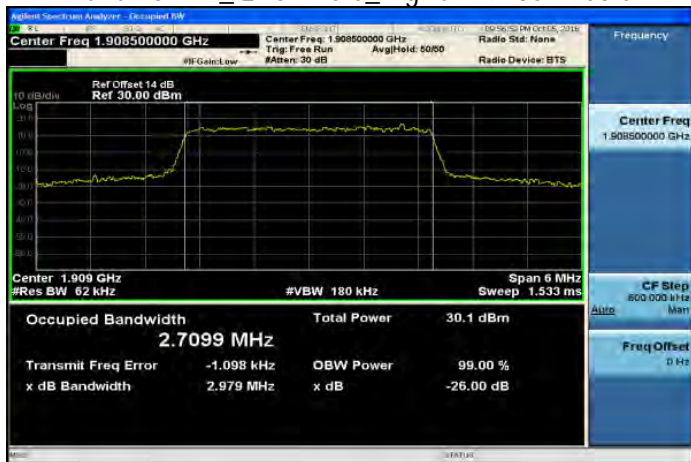
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Band2 3MHz_QPSK 15 0_HighCH19185-1908.5



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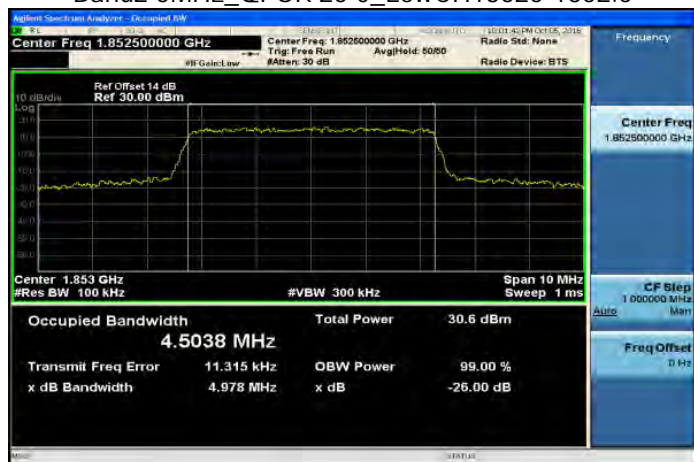
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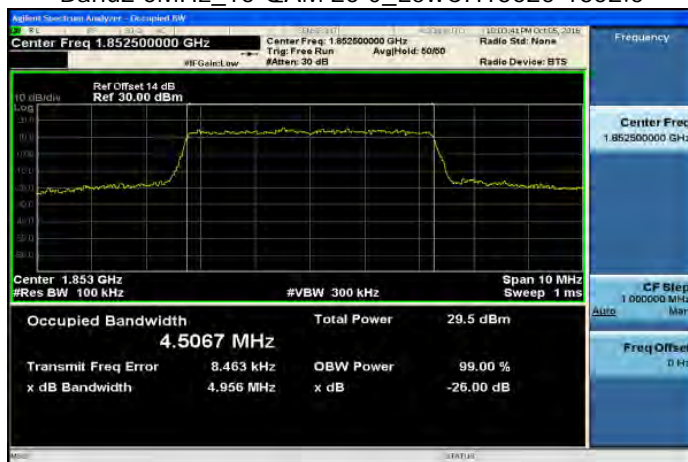
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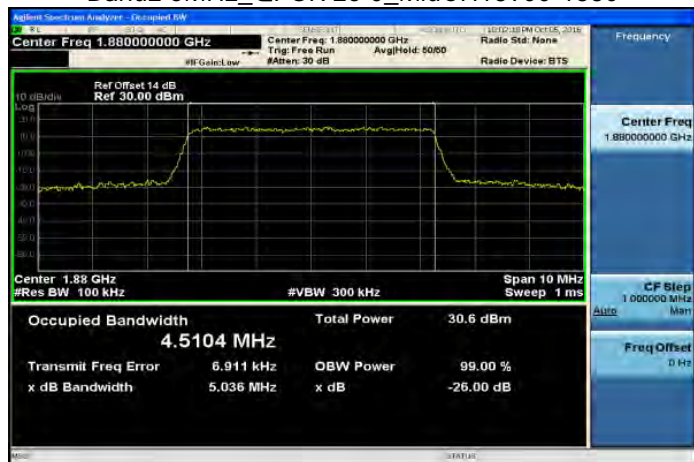
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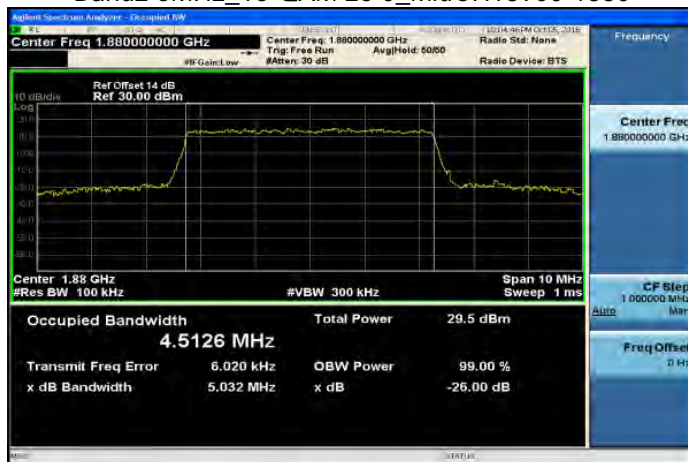
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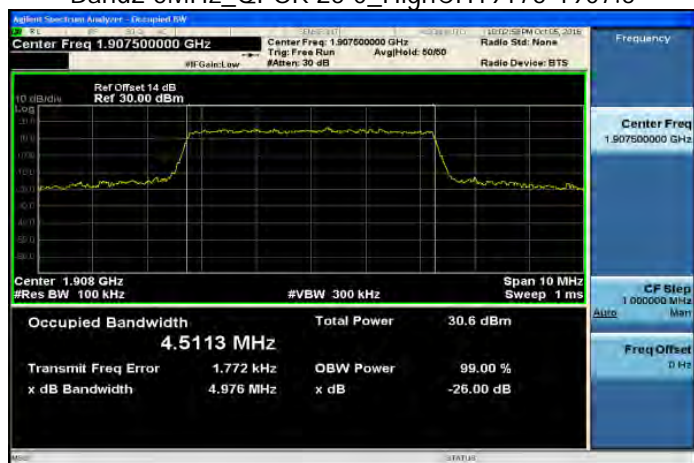
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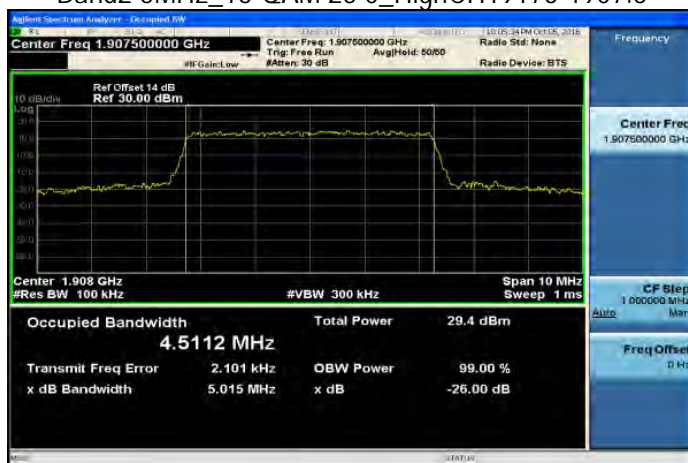
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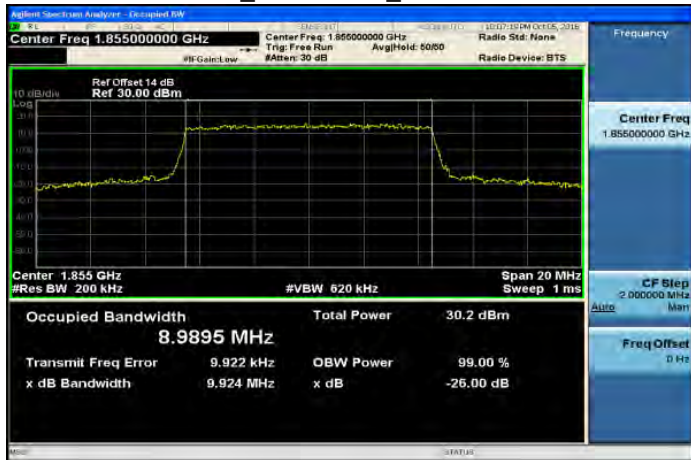
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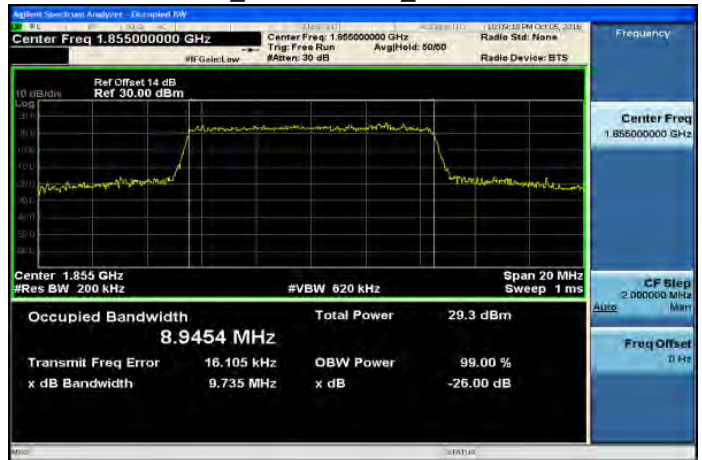
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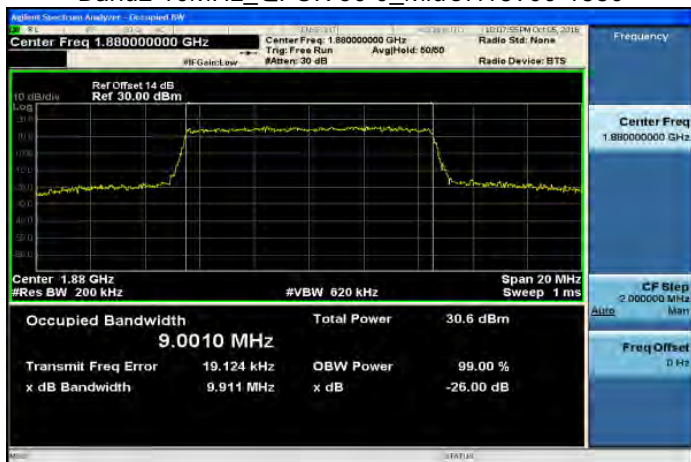
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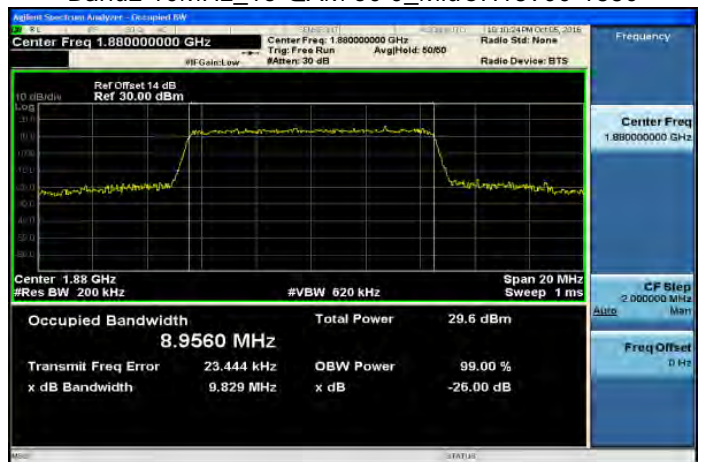
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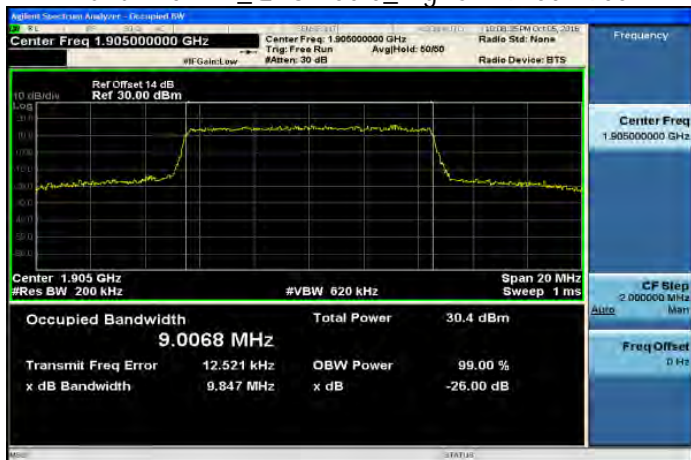
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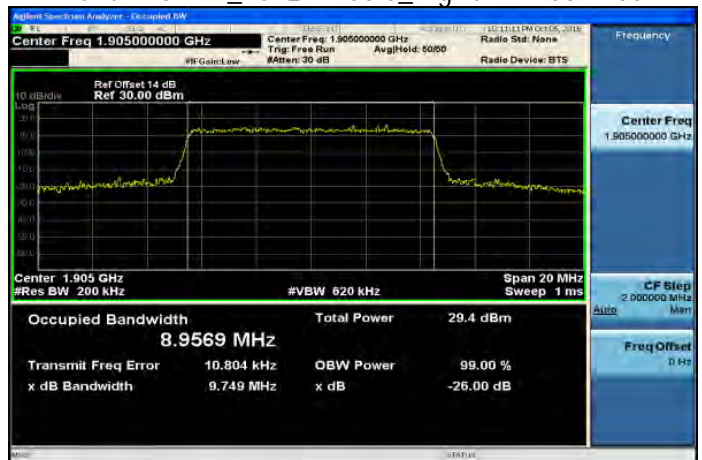
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Band2 10MHz_QPSK 50 0_HighCH19150-1905



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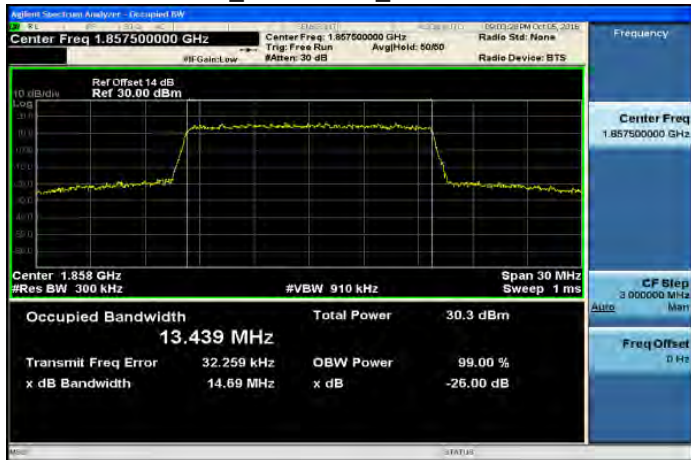
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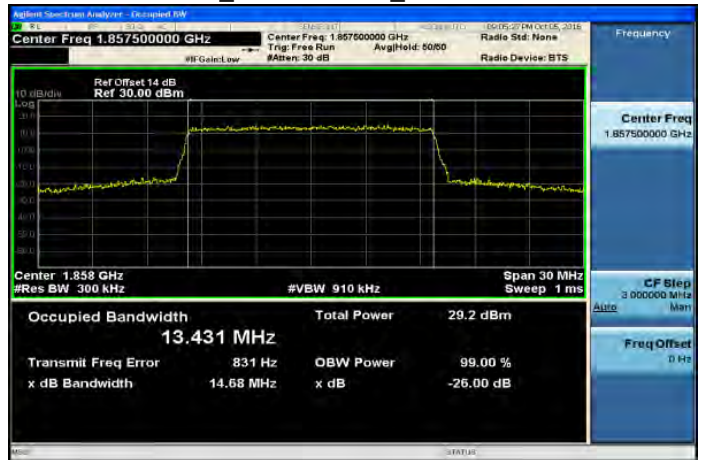
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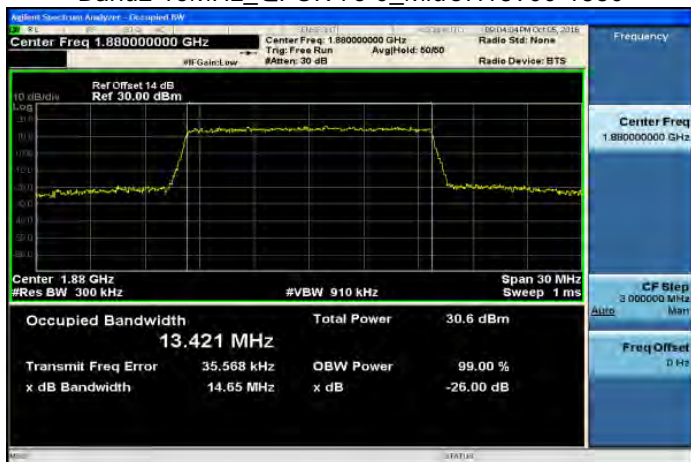
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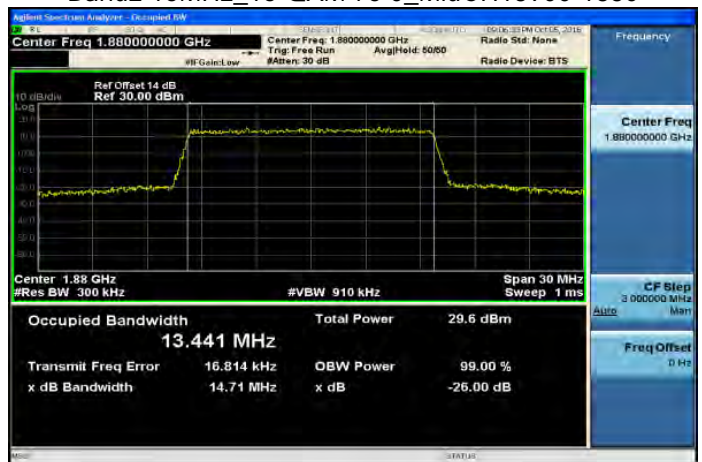
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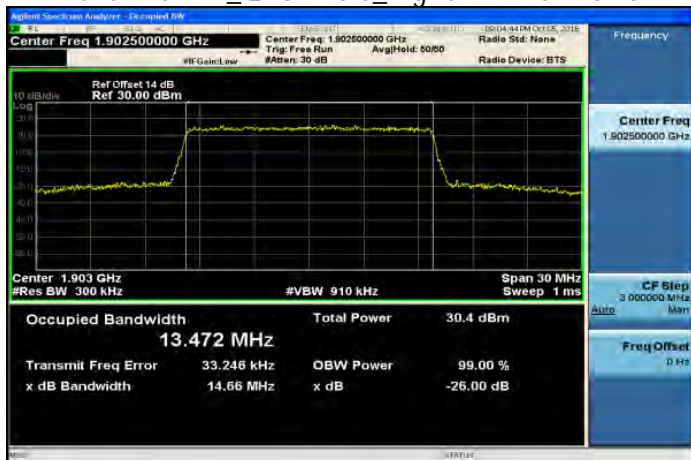
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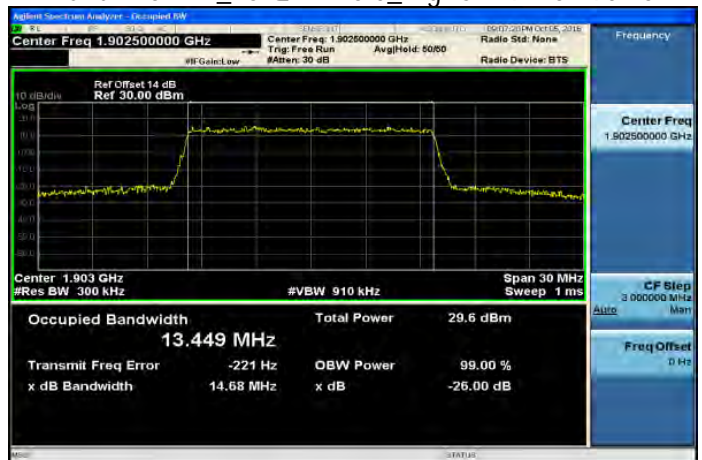
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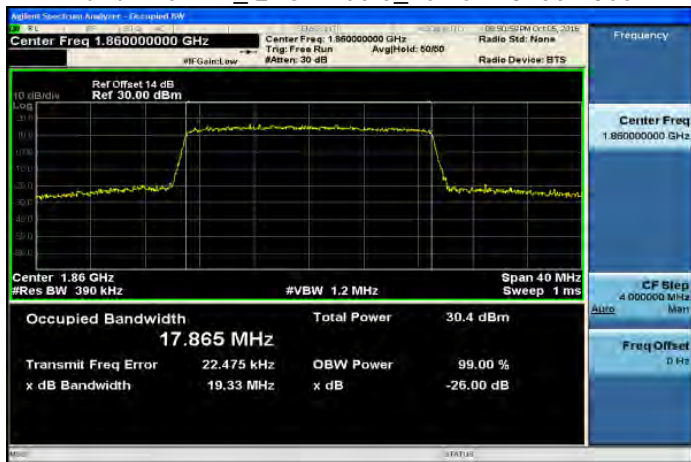
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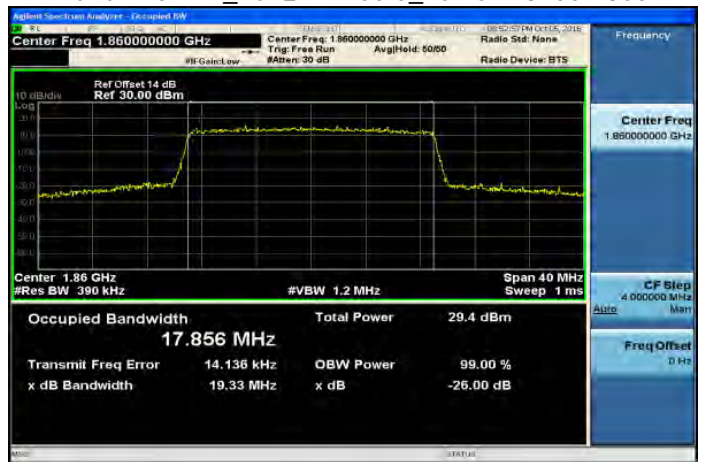
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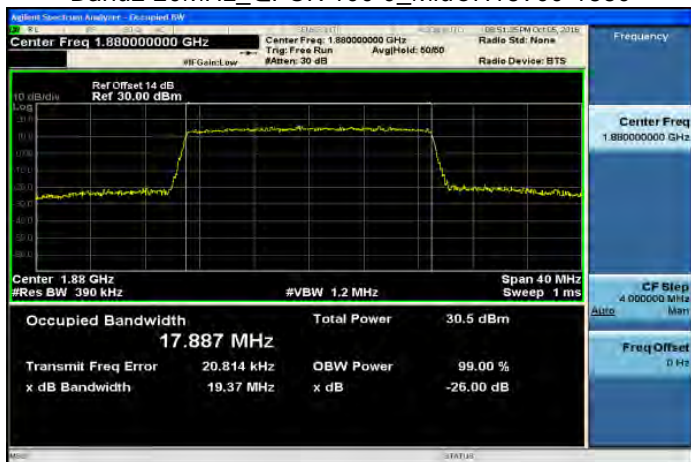
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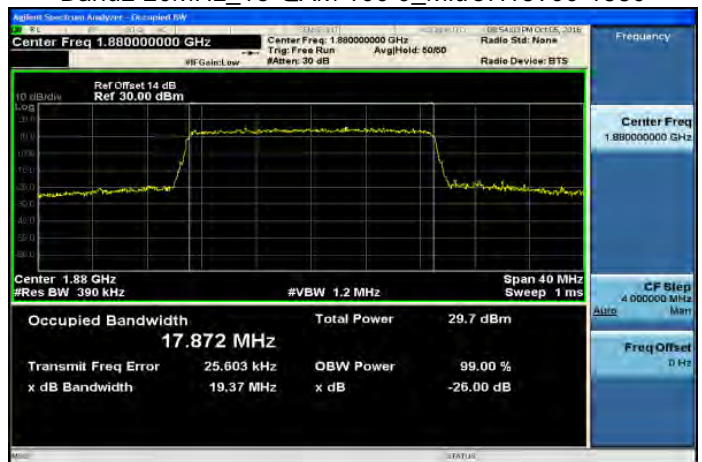
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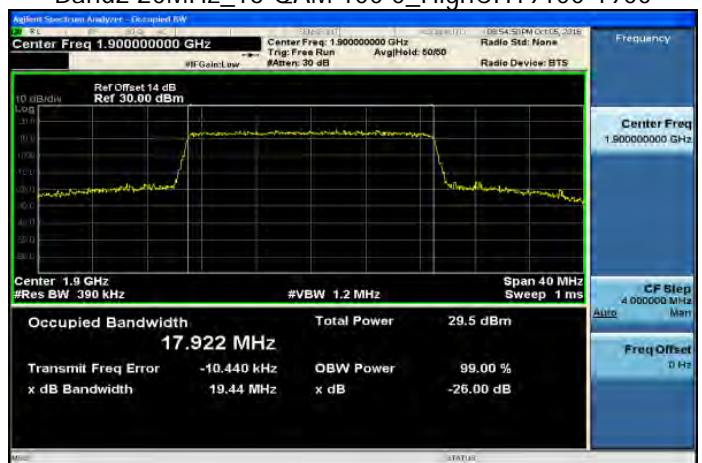
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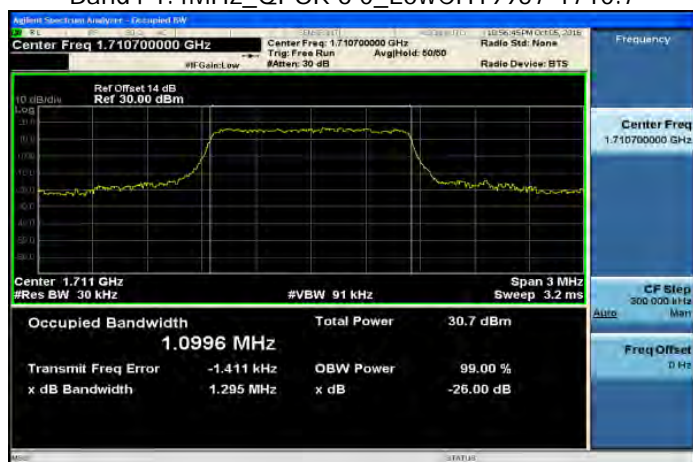
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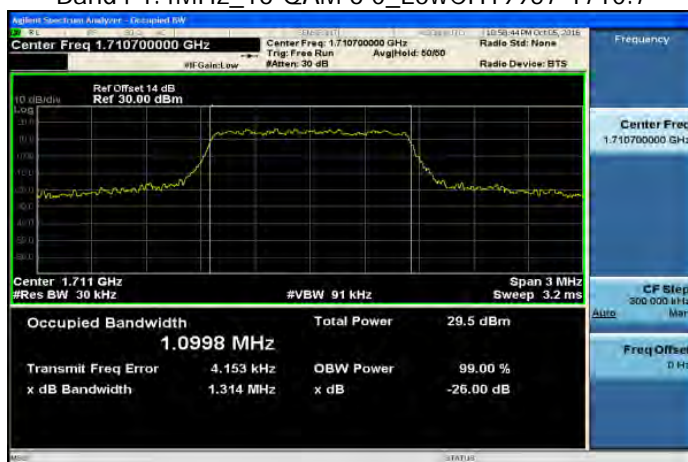
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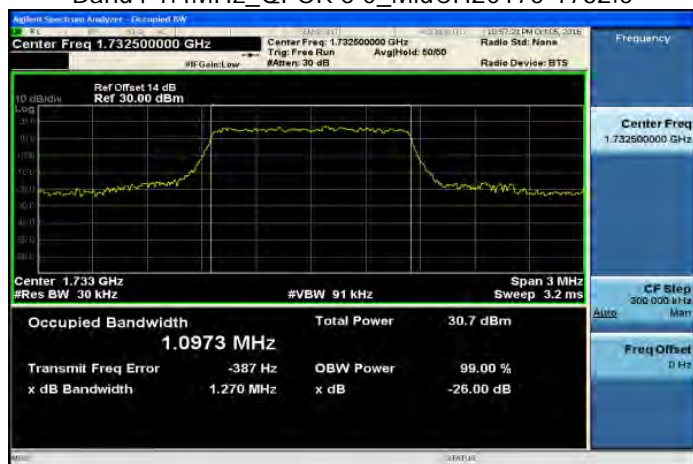
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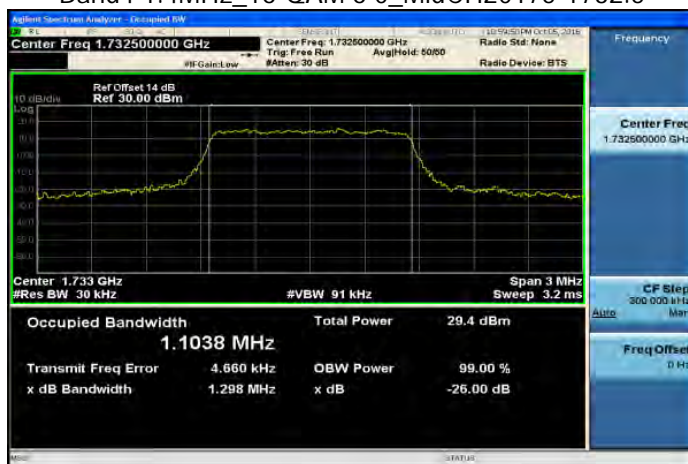
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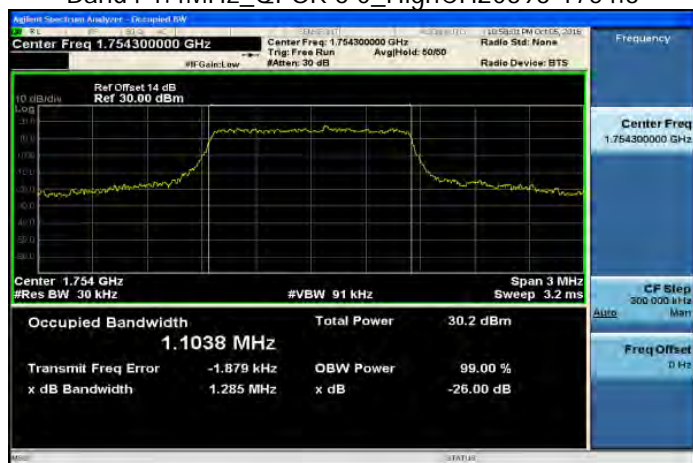
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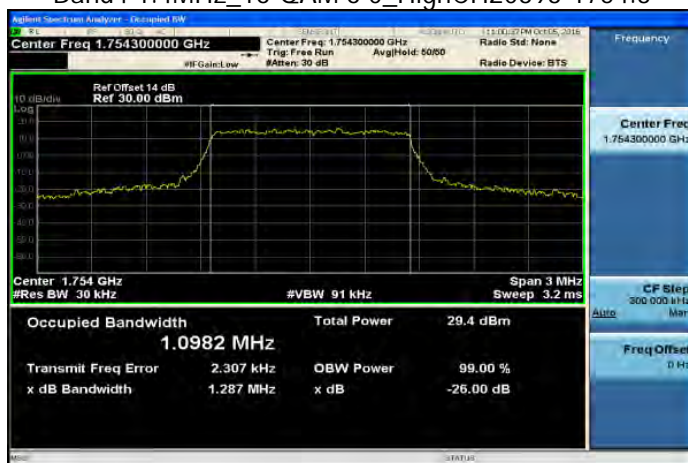
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Band4 1.4MHz_QPSK 6 0_HighCH20393-1754.3



Band4 1.4MHz_16-QAM 6 0_HighCH20393-1754.3



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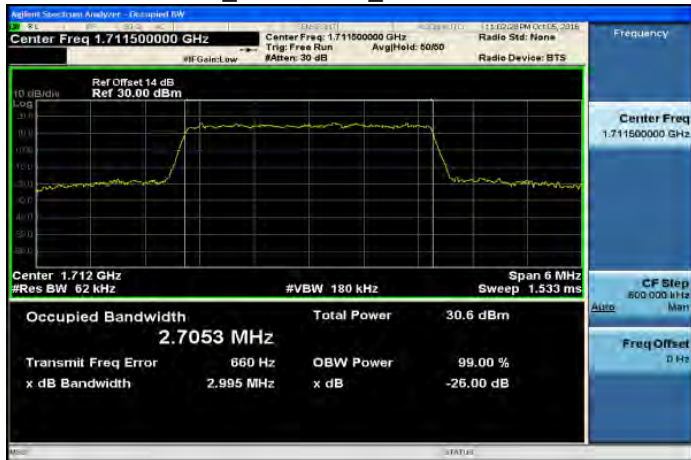
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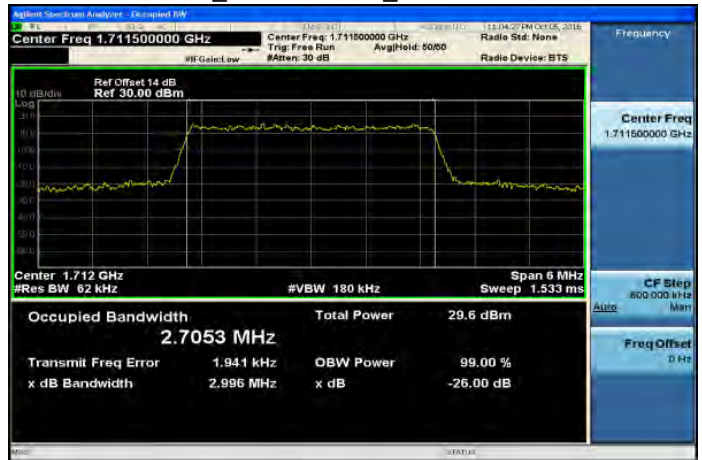
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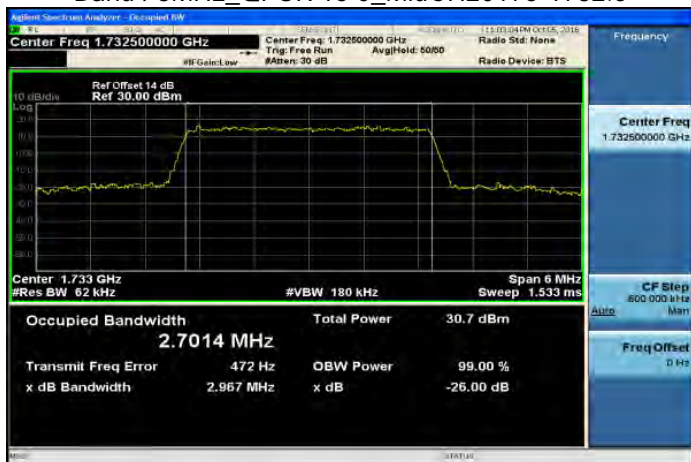
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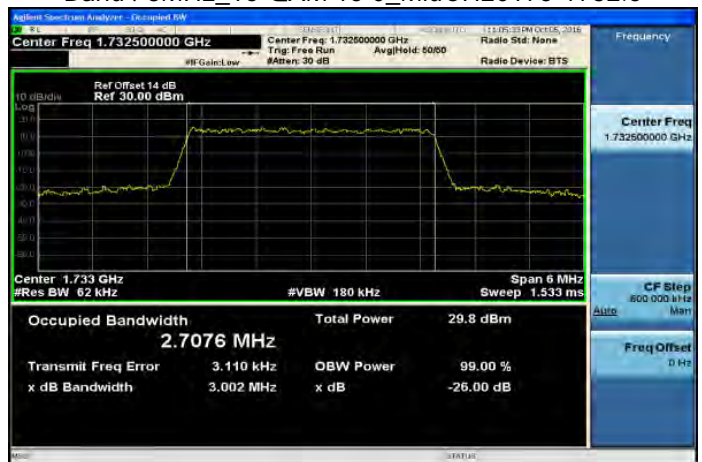
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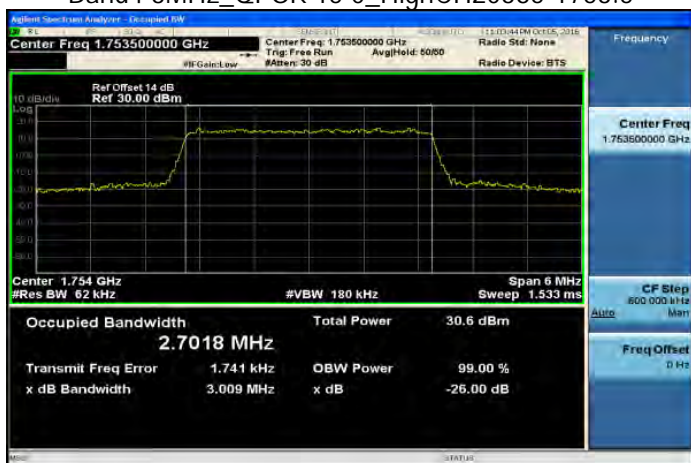
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Band4 3MHz_16-QAM 15 0_MidCH20175-1732.5



Band4 3MHz_QPSK 15 0_HighCH20385-1753.5



Band4 3MHz_16-QAM 15 0_HighCH20385-1753.5



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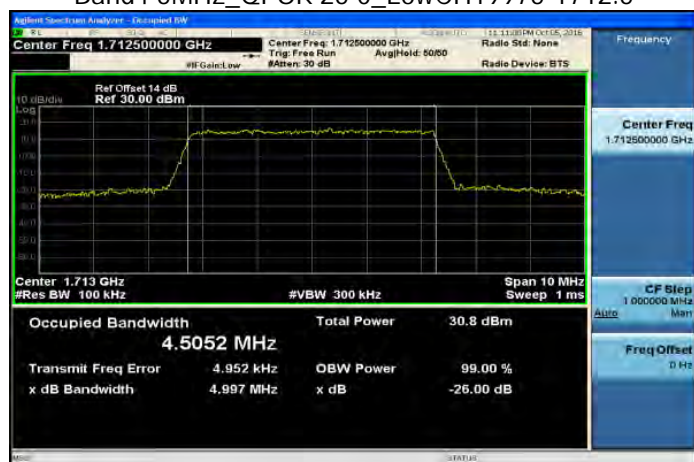
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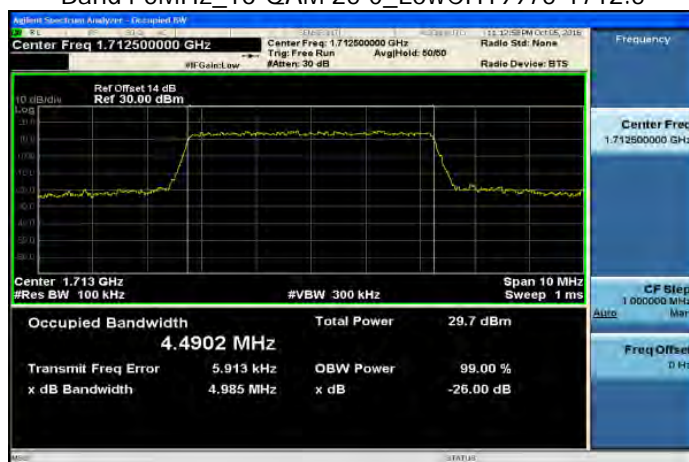
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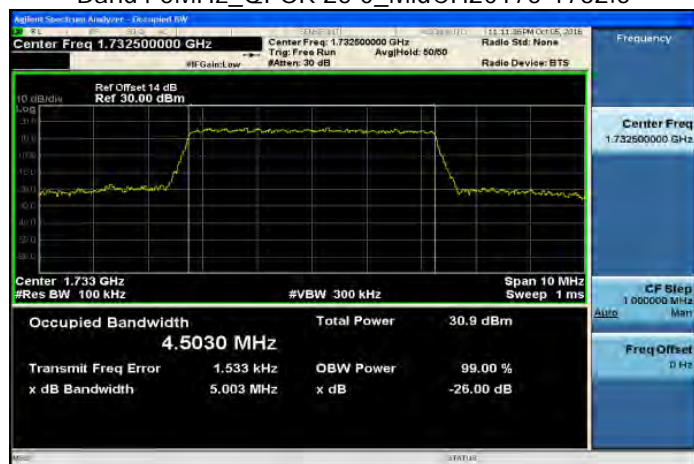
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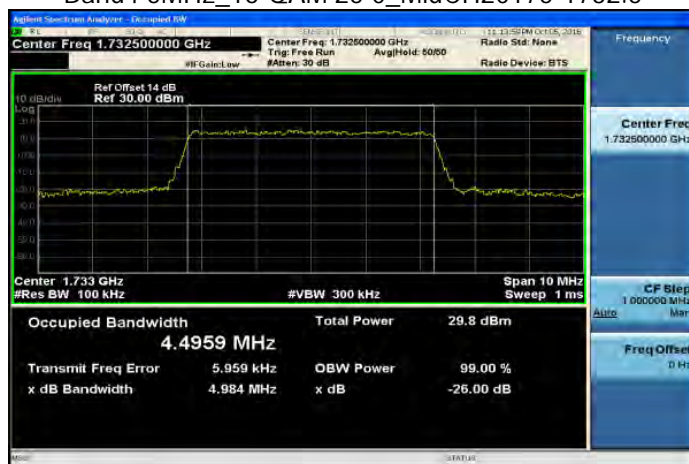
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Band4 5MHz_QPSK 25 0_MidCH20175-1732.5



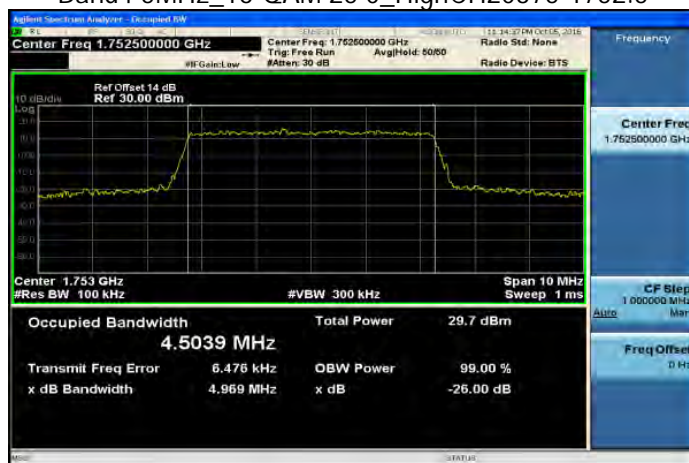
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Band4 5MHz_QPSK 25 0_HighCH20375-1752.5



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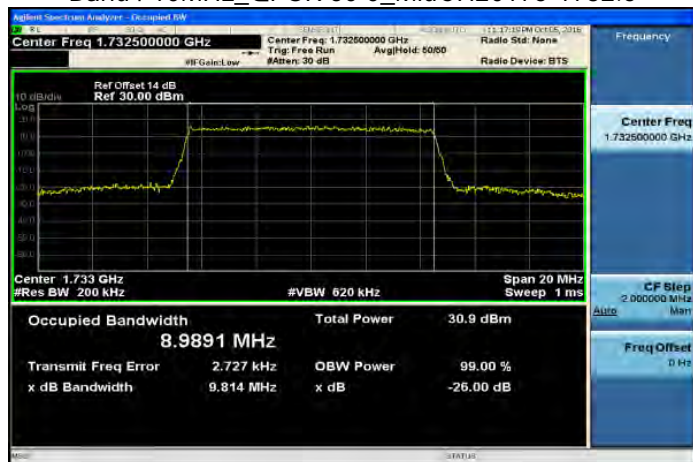
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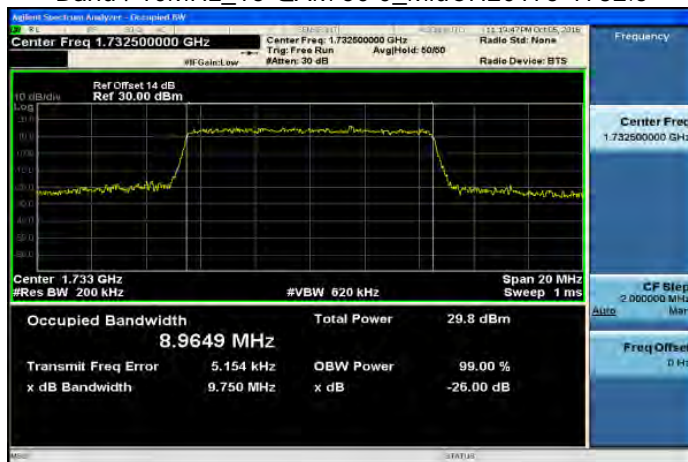
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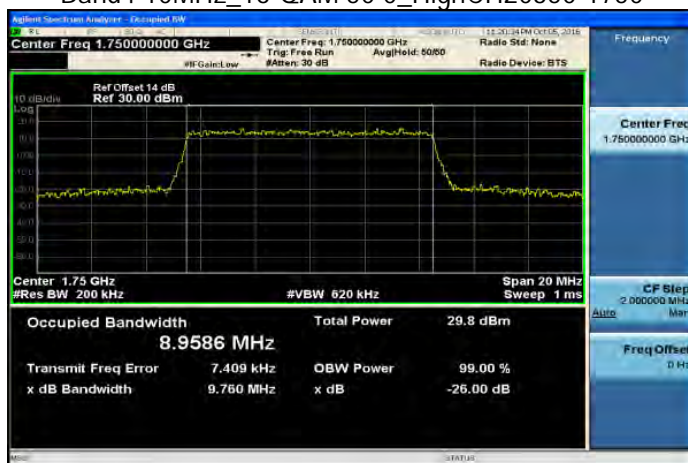
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Band4 10MHz_QPSK 50 0_HighCH20350-1750



Band4 10MHz_16-QAM 50 0_HighCH20350-1750



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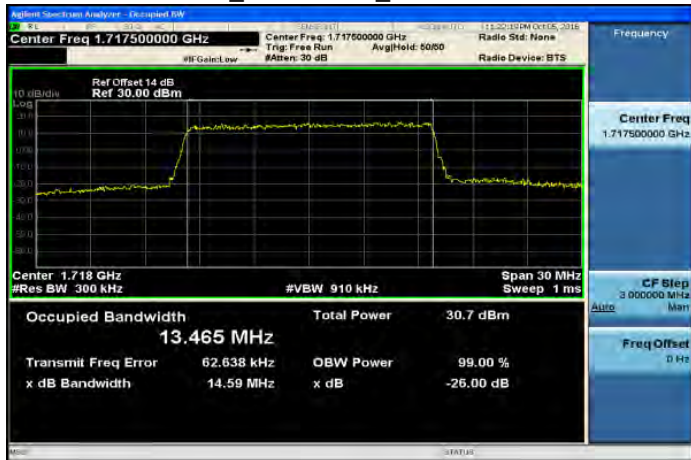
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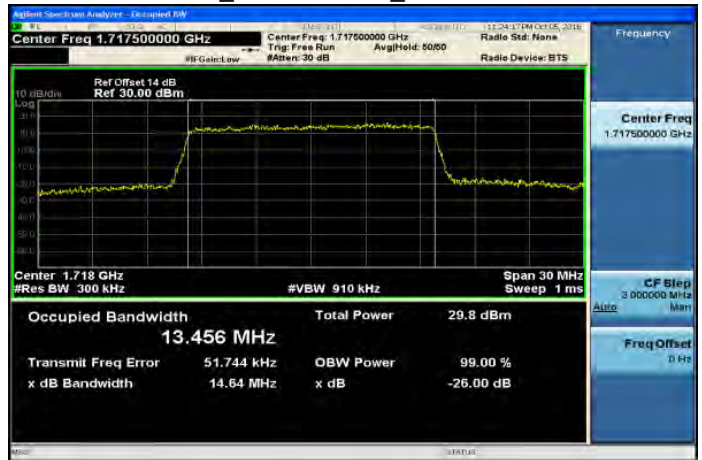
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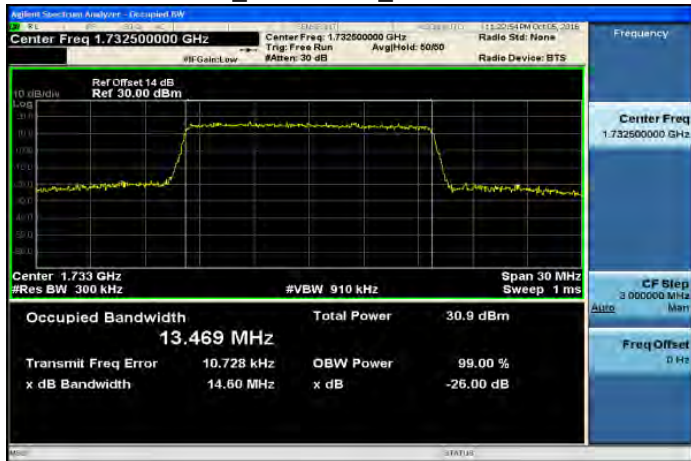
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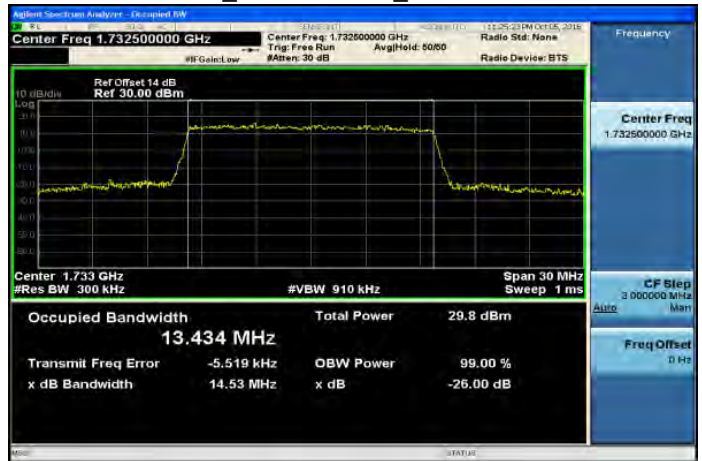
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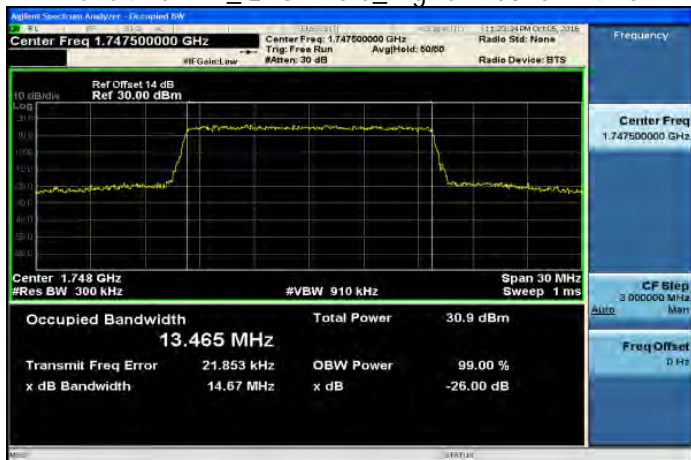
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Band4 15MHz_QPSK 75 0_HighCH20325-1747.5



Band4 15MHz_16-QAM 75 0_HighCH20325-1747.5



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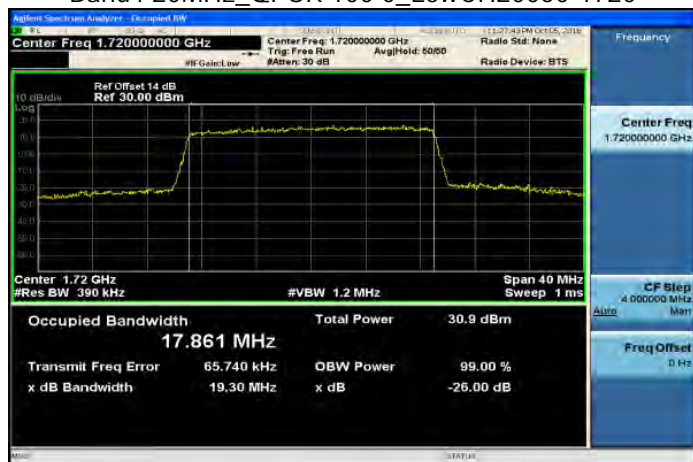
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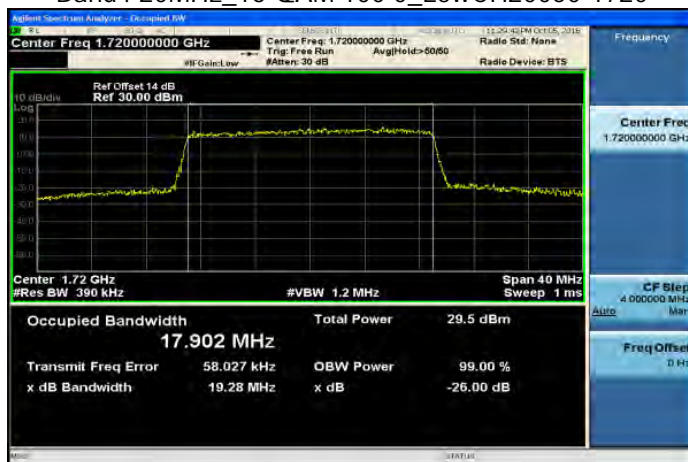
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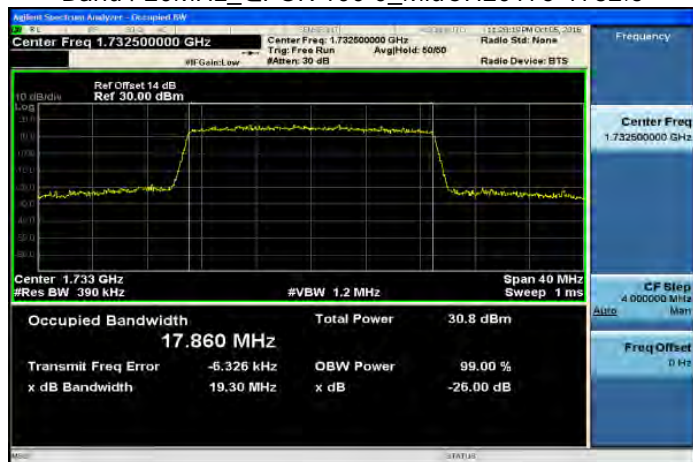
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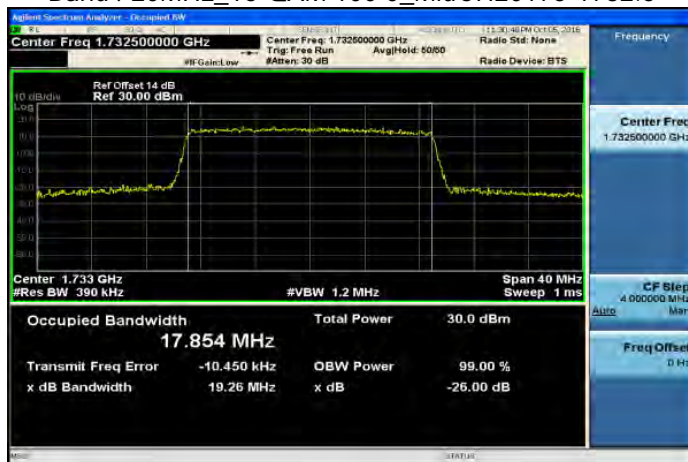
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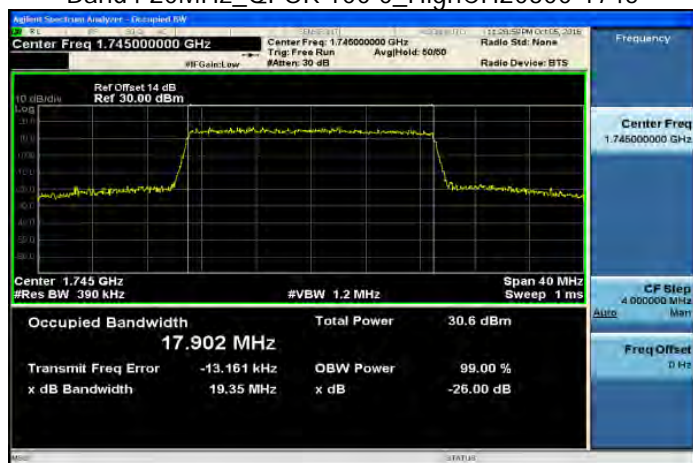
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Band4 20MHz_QPSK 100 0_HighCH20300-1745



Band4 20MHz_16-QAM 100 0_HighCH20300-1745



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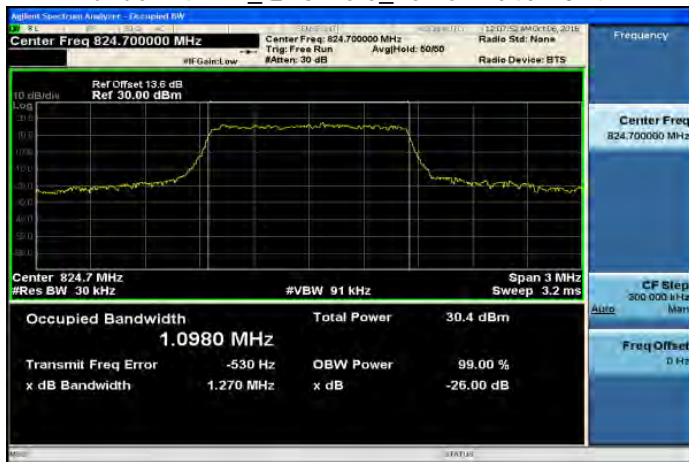
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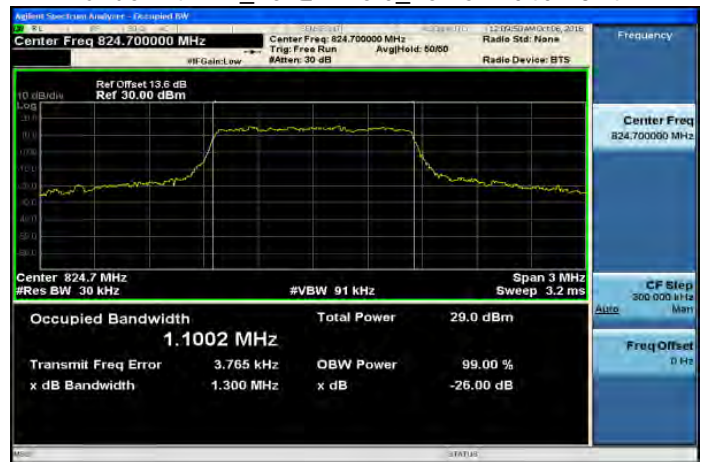
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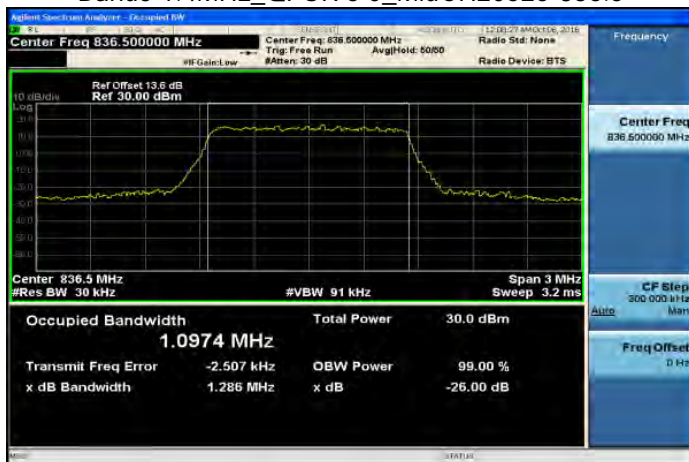
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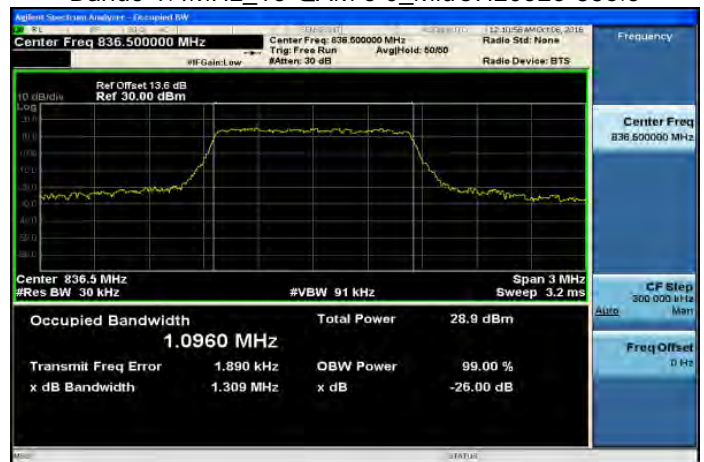
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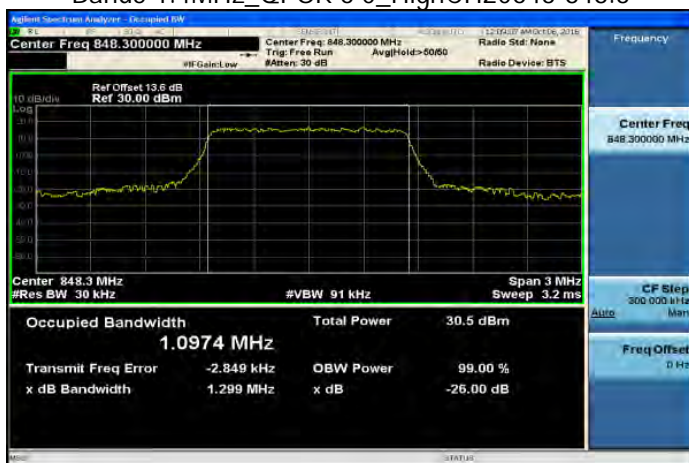
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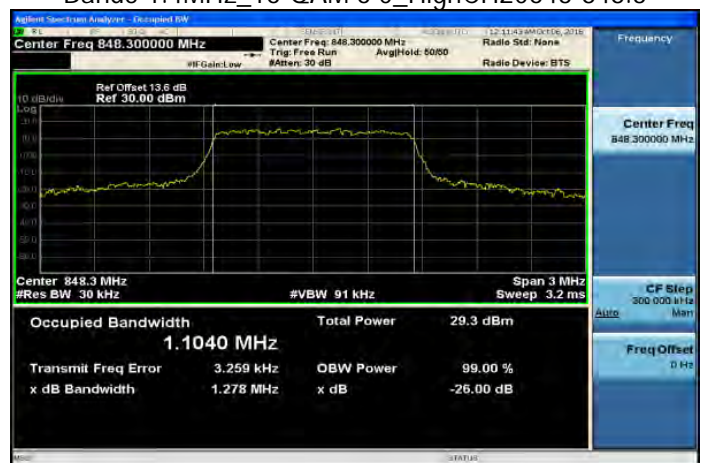
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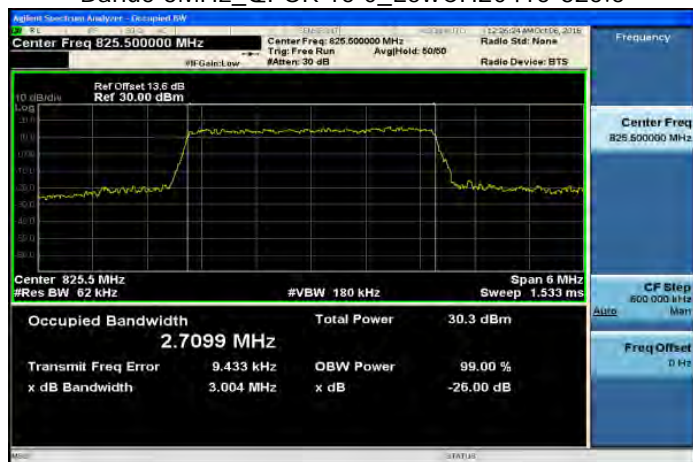
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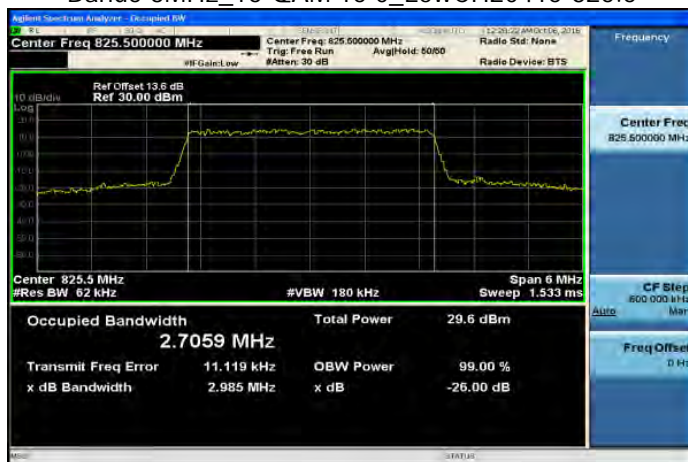
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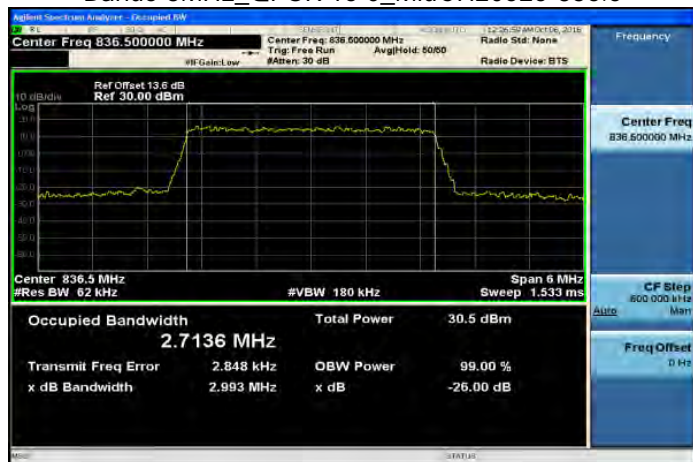
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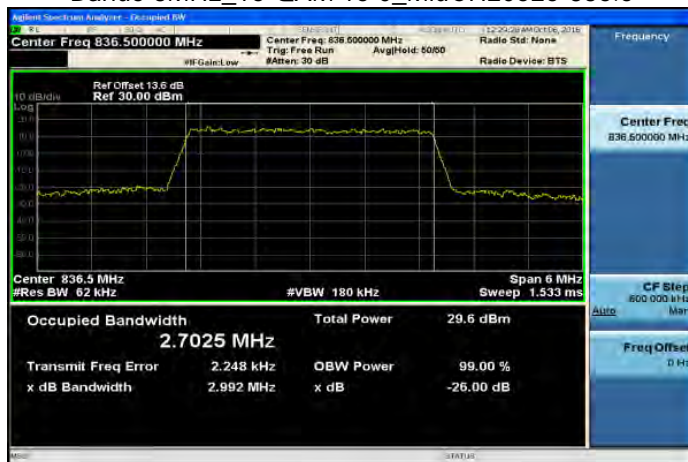
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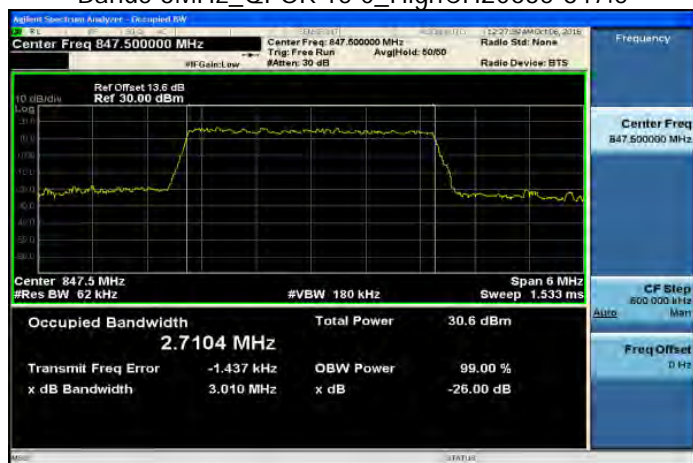
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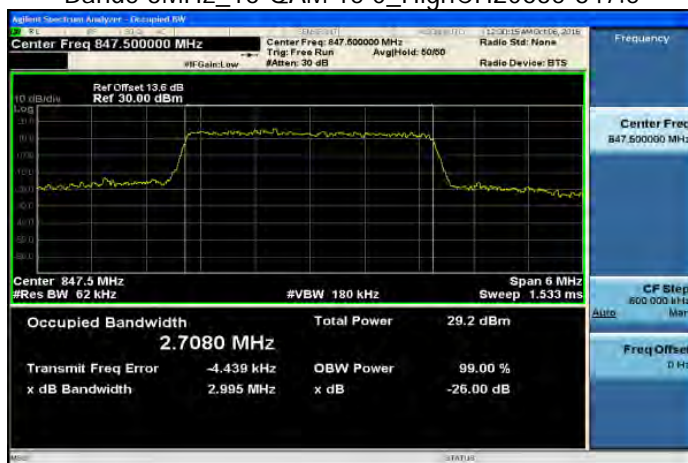
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Band5 3MHz_16-QAM 15 0_HighCH20635-847.5



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Band5 5MHz_QPSK 25 0_LowCH20425-826.5



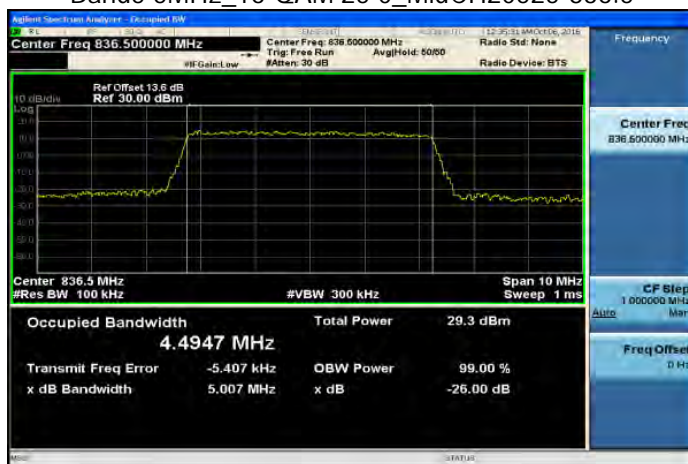
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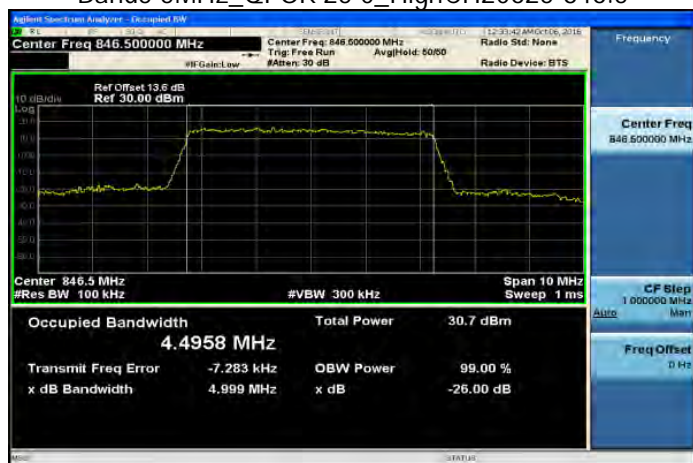
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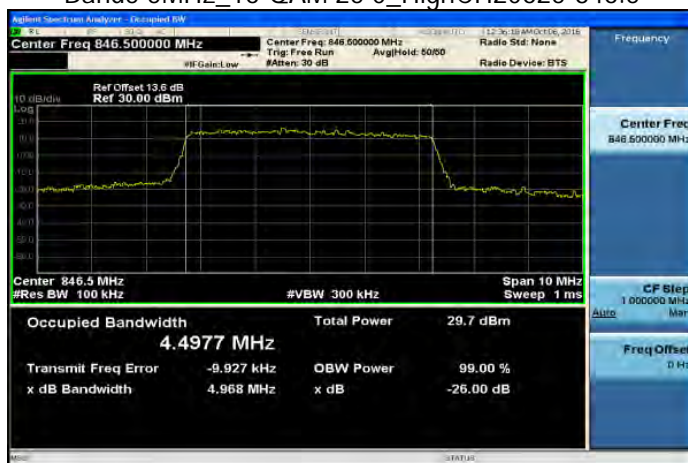
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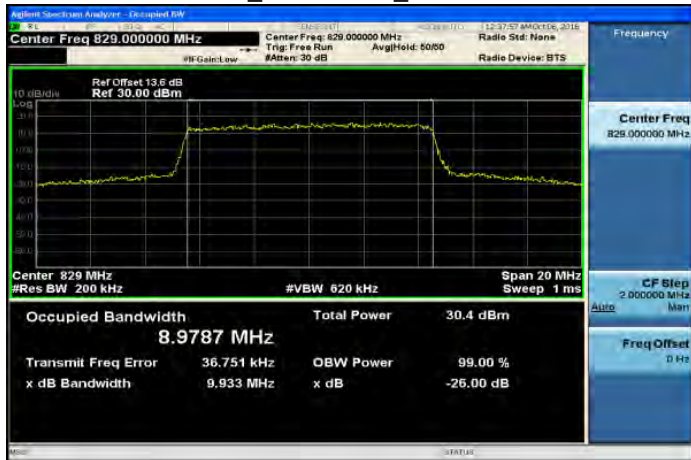
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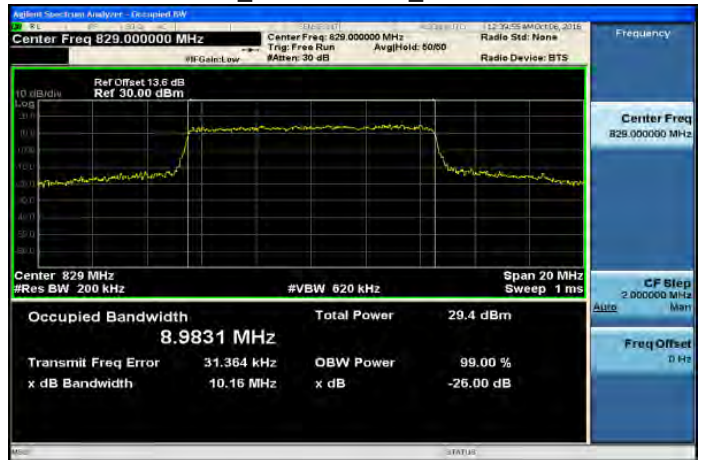
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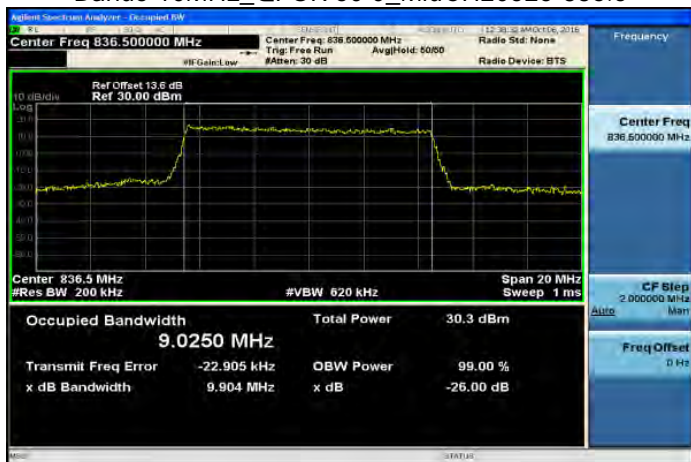
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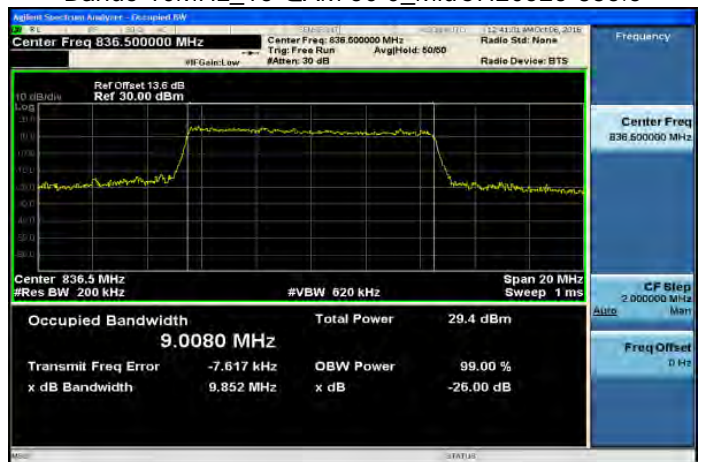
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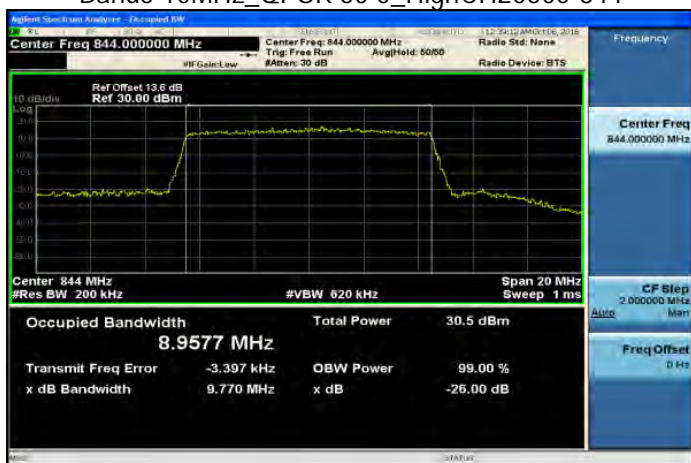
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Band5 10MHz_QPSK 50 0_HighCH20600-844



Band5 10MHz_16-QAM 50 0_HighCH20600-844



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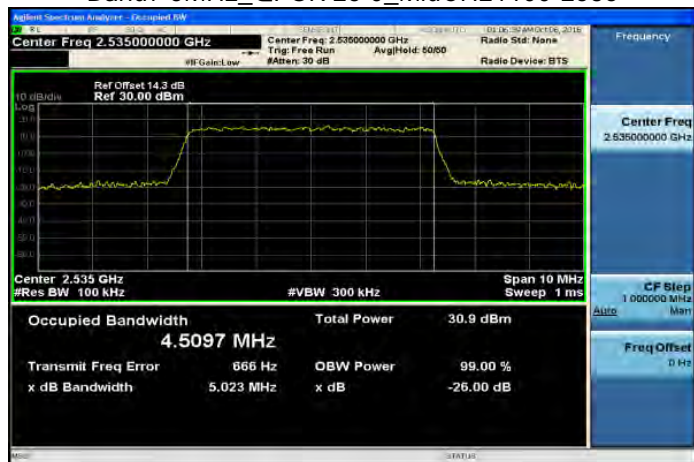
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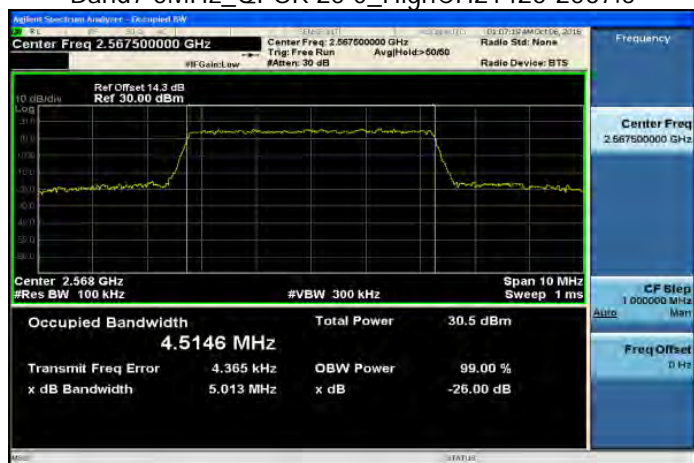
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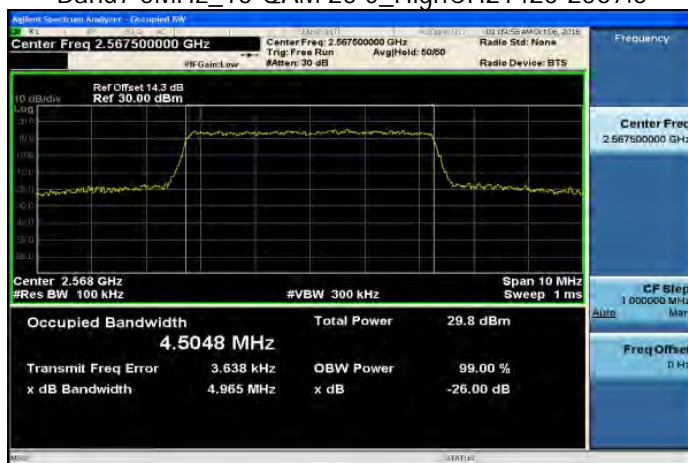
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Band7 5MHz_QPSK 25 0_HighCH21425-2567.5



Band7 5MHz_16-QAM 25 0_HighCH21425-2567.5



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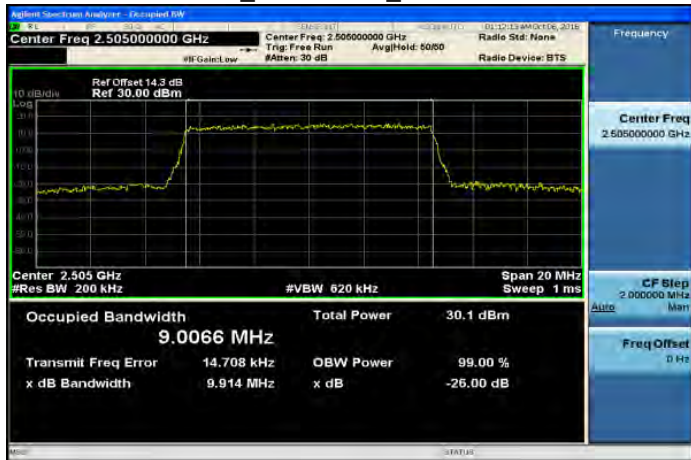
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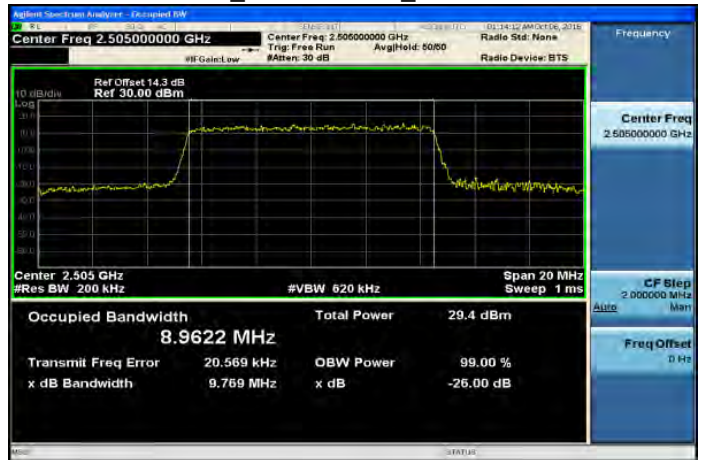
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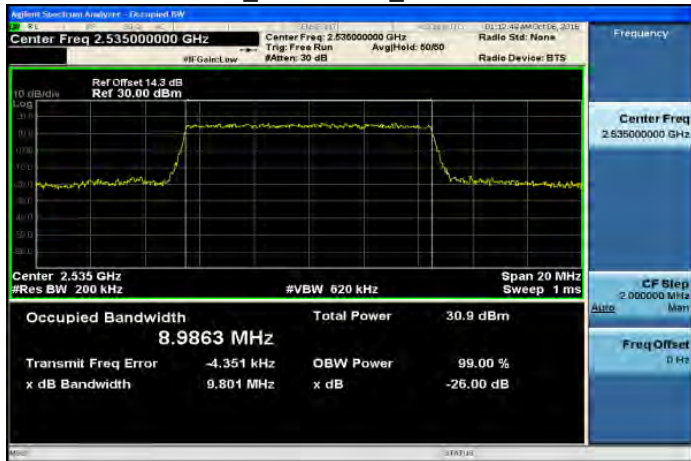
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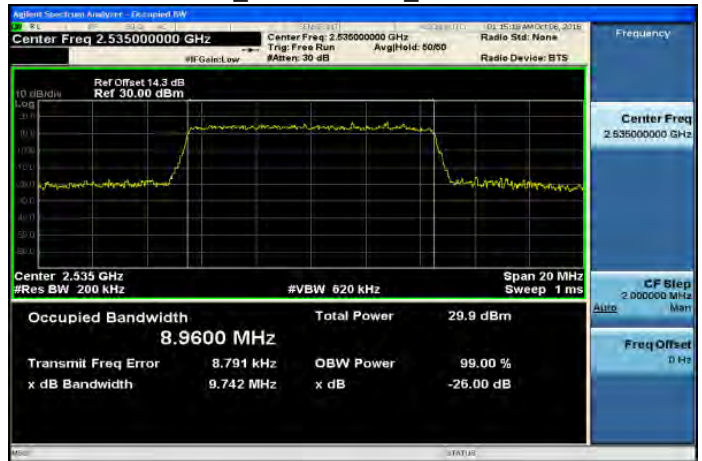
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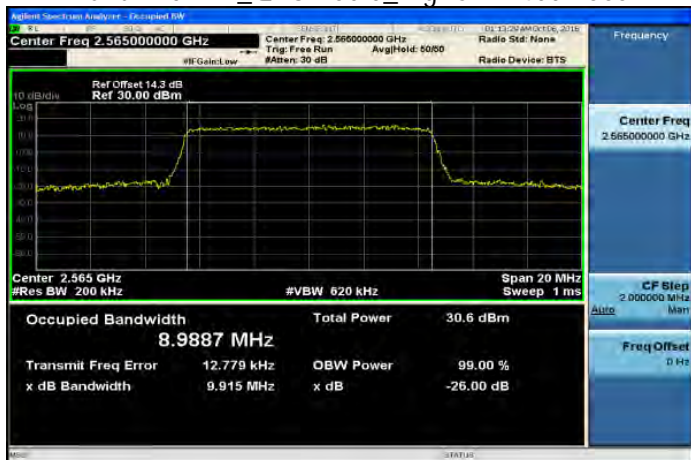
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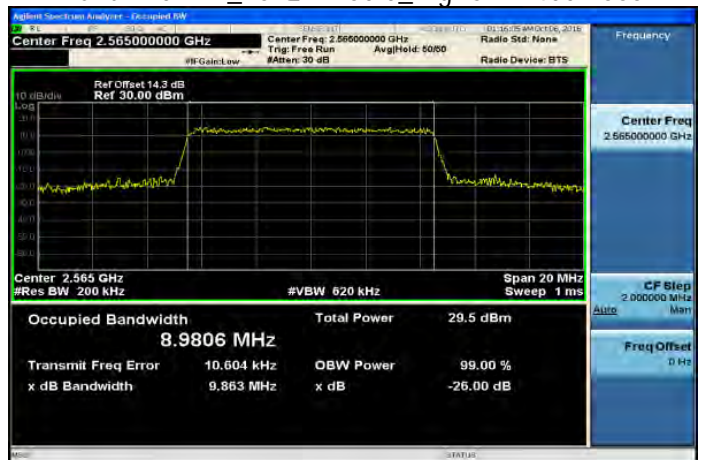
Band7 10MHz_16-QAM 50 0_MidCH21100-2535



Band7 10MHz_QPSK 50 0_HighCH21400-2565



Band7 10MHz_16-QAM 50 0_HighCH21400-2565



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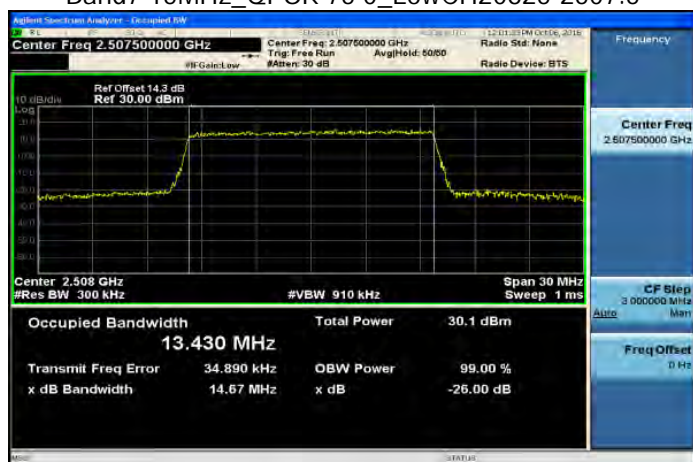
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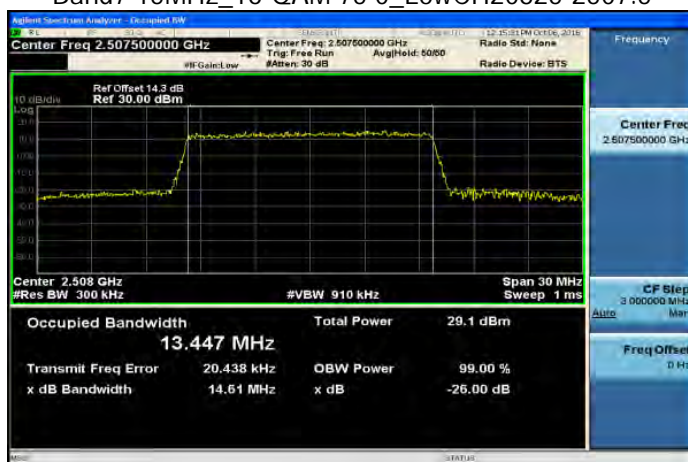
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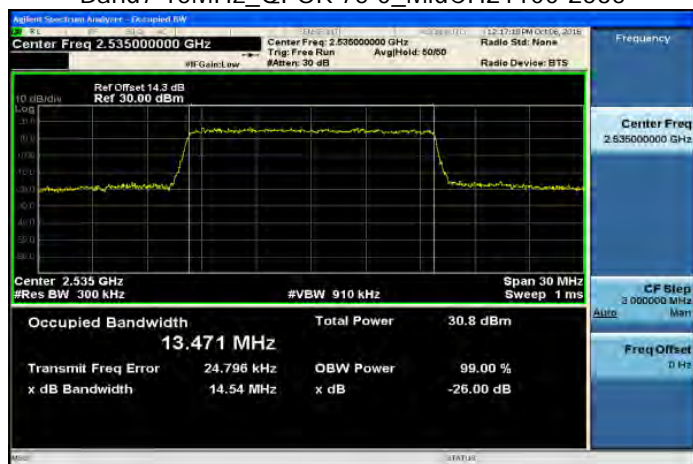
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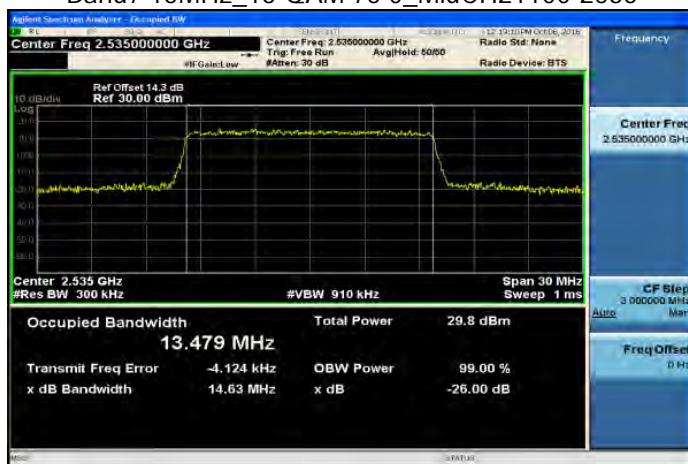
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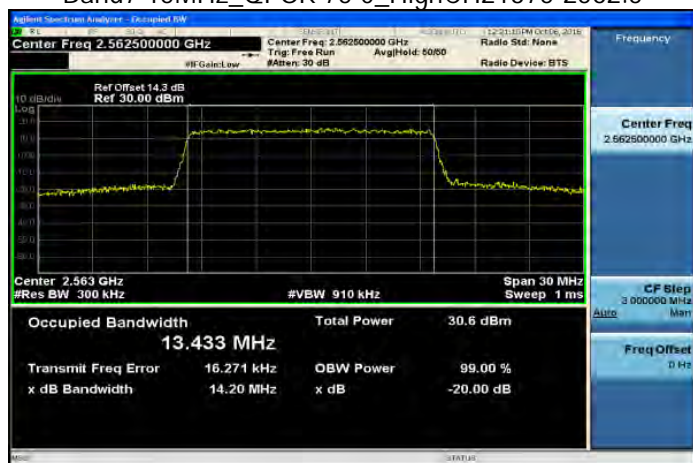
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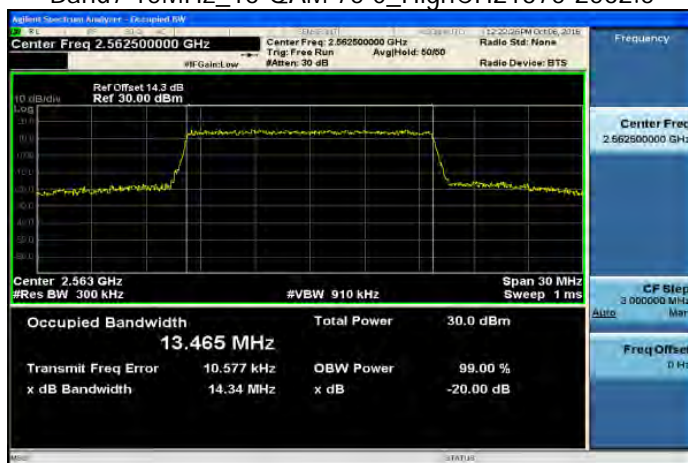
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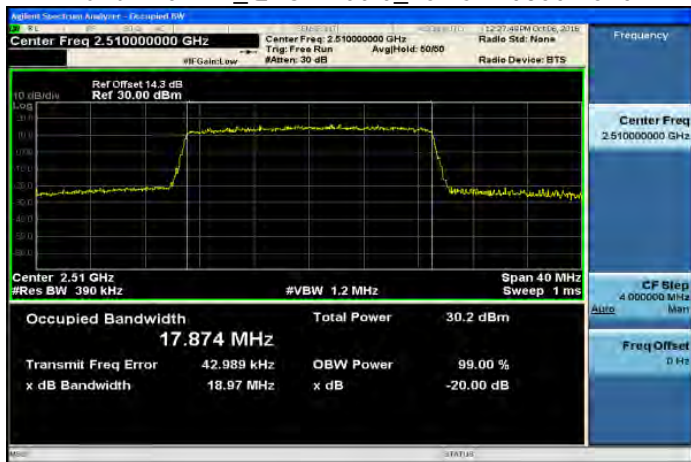
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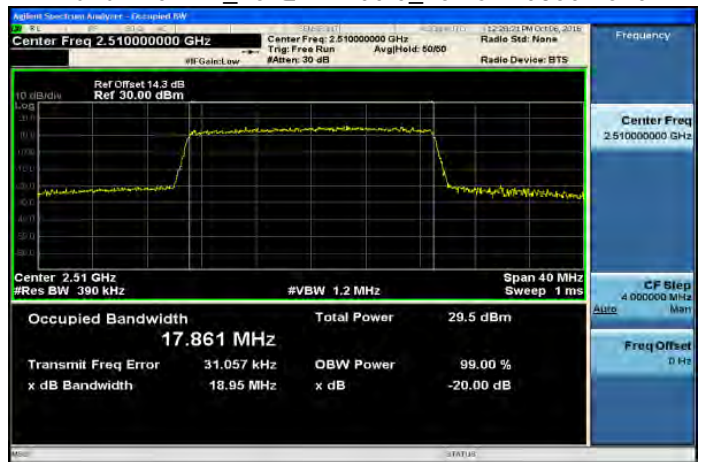
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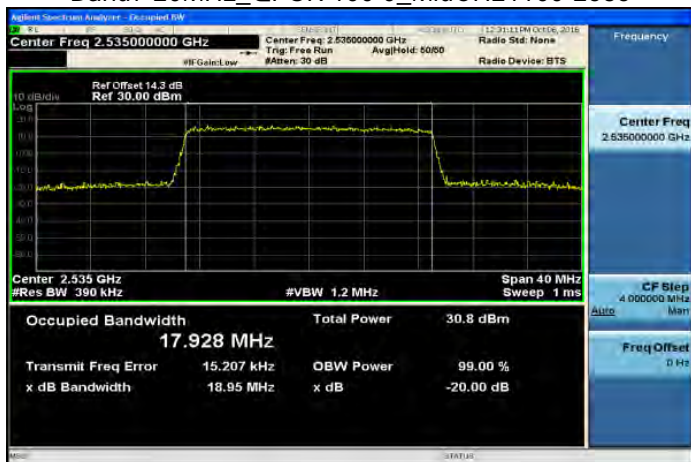
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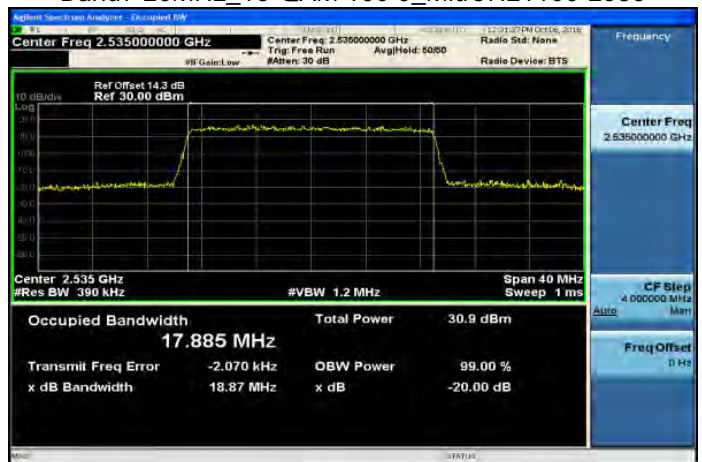
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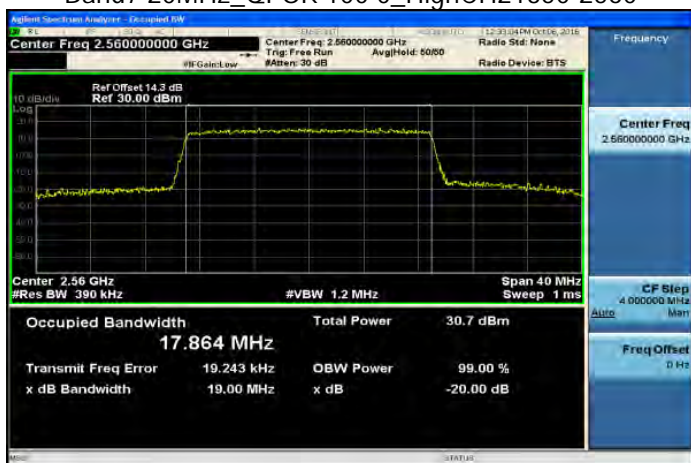
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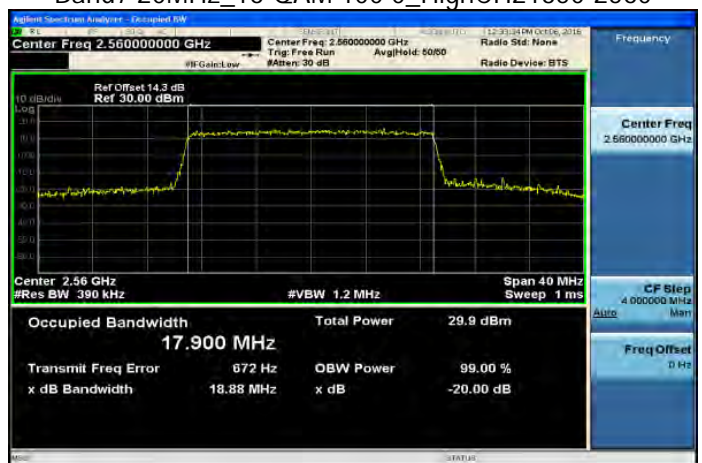
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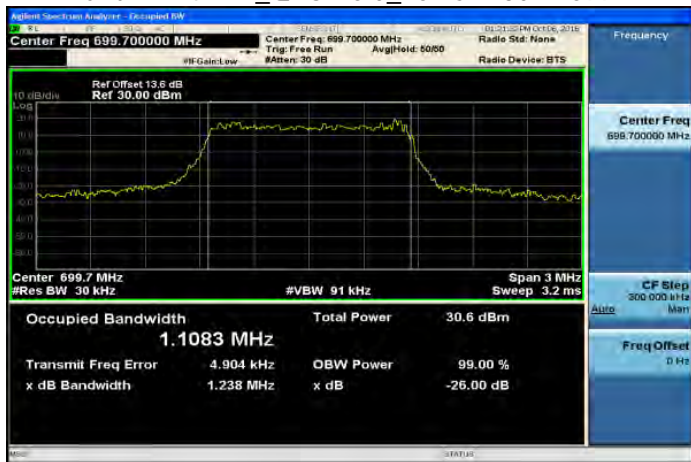
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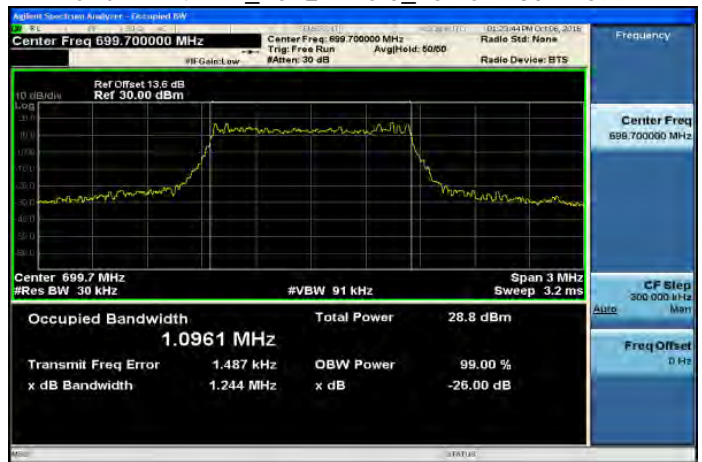
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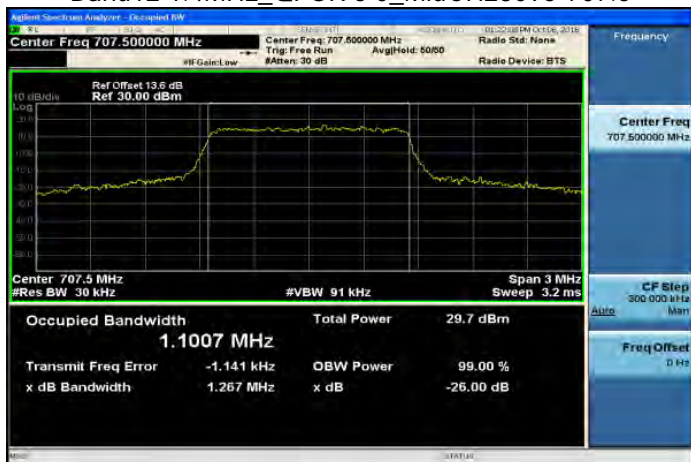
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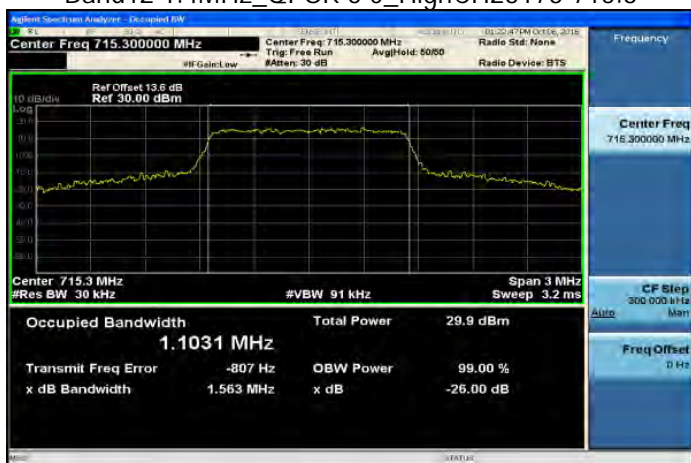
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Band12 1.4MHz_QPSK 6 0_HighCH23173-715.3



Band12 1.4MHz_16-QAM 6 0_HighCH23173-715.3



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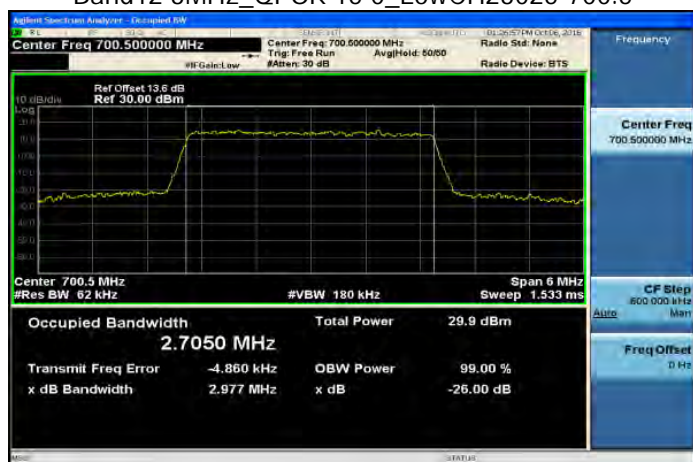
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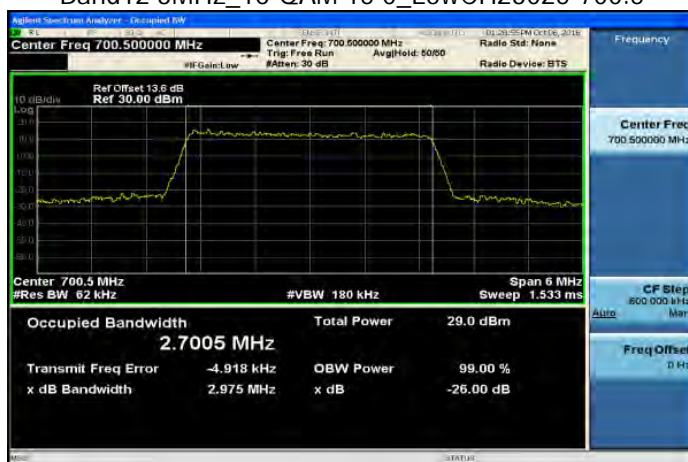
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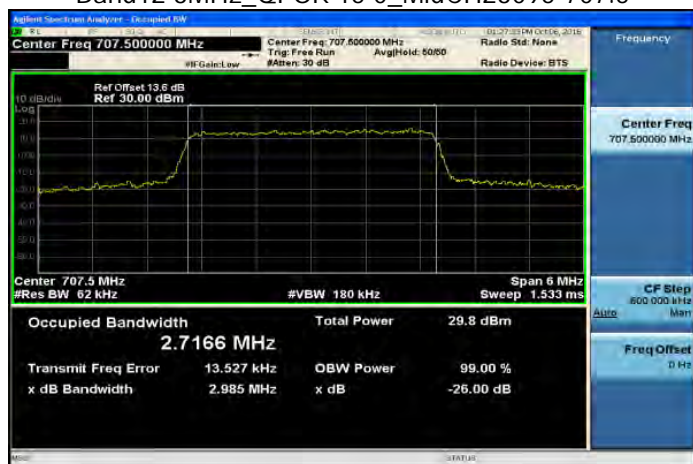
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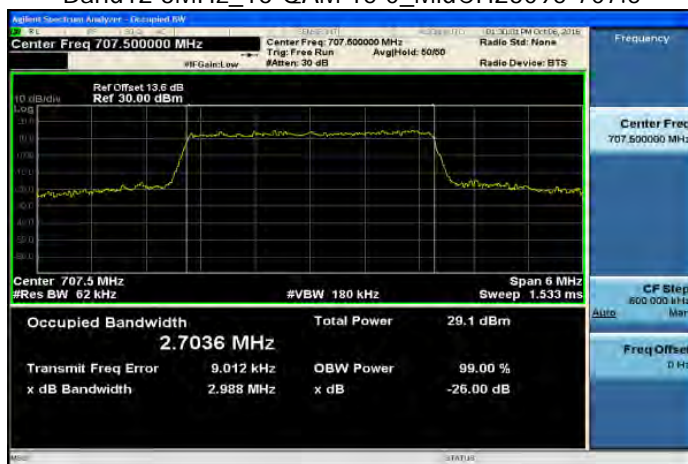
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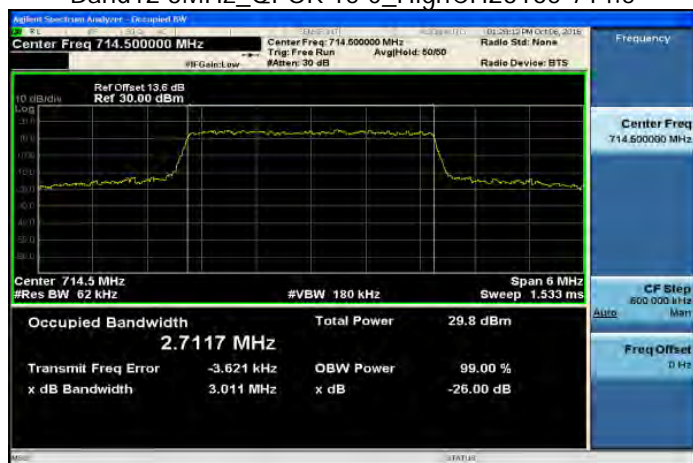
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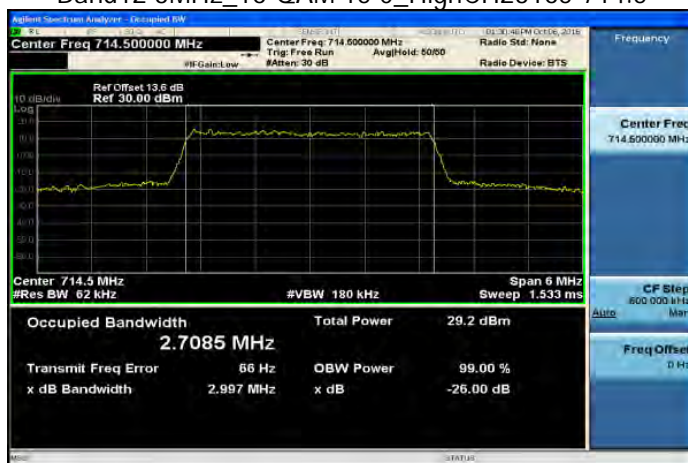
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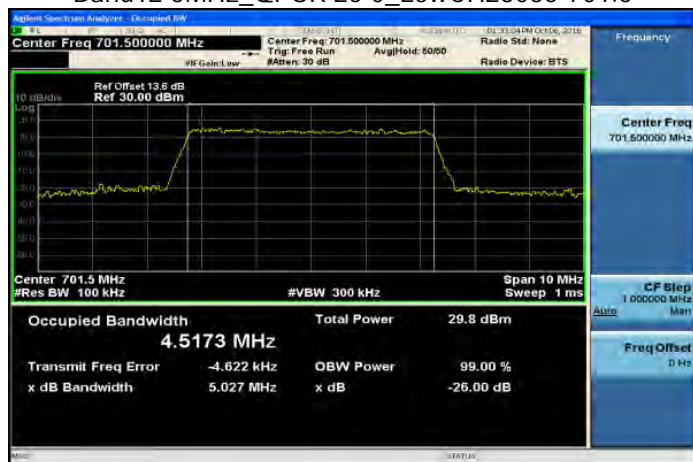
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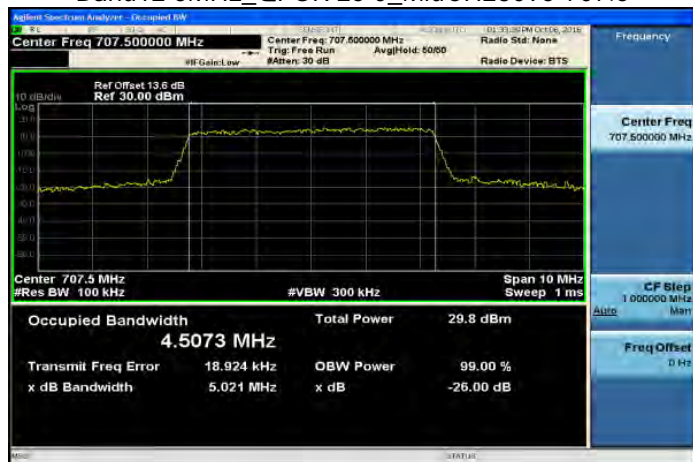
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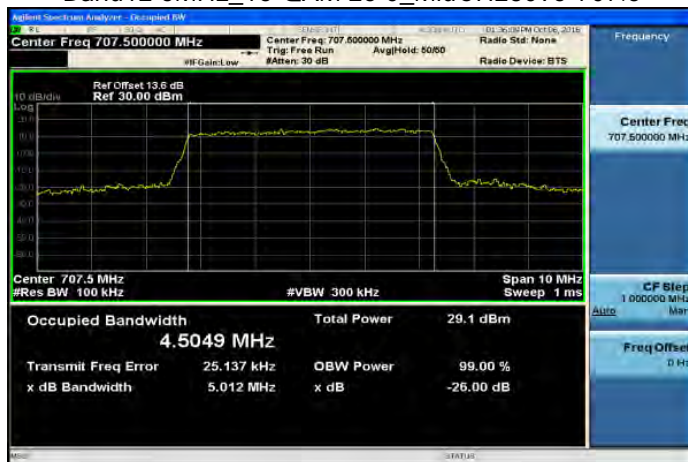
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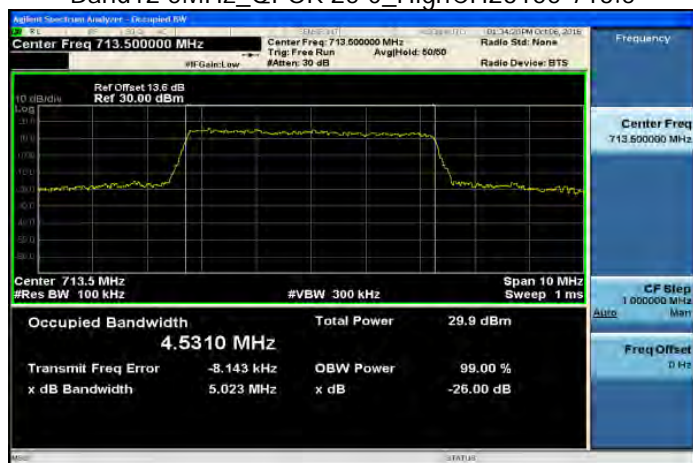
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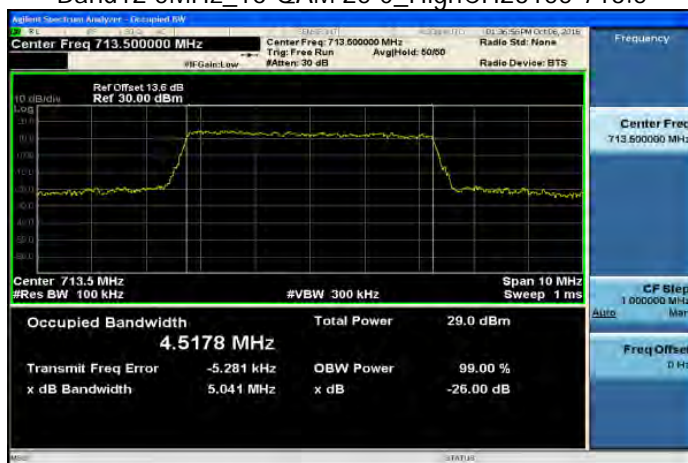
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Band12 5MHz_16-QAM 25 0_HighCH23155-713.5



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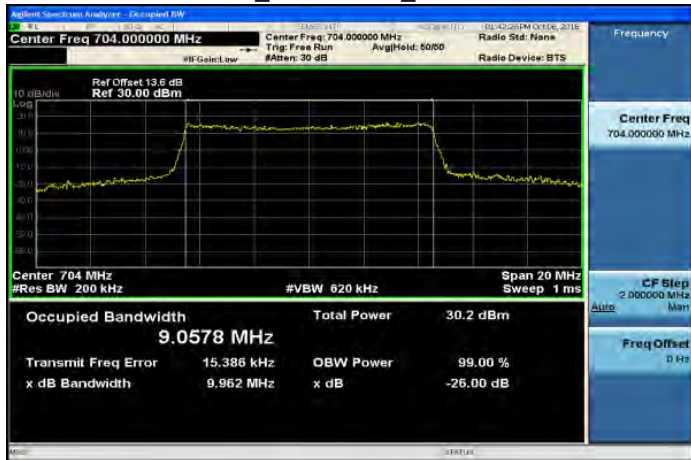
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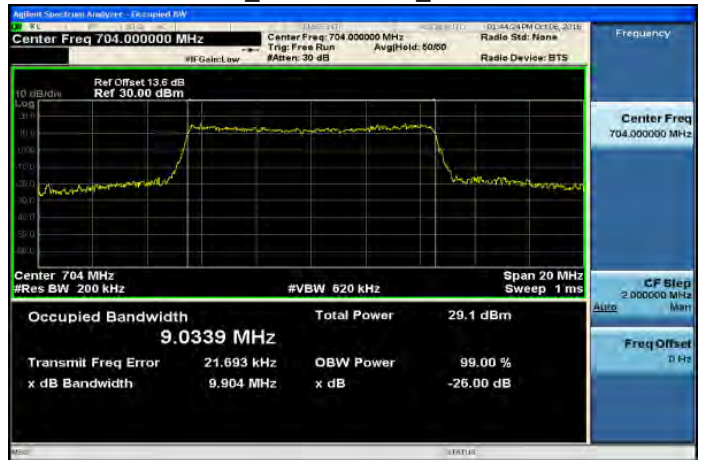
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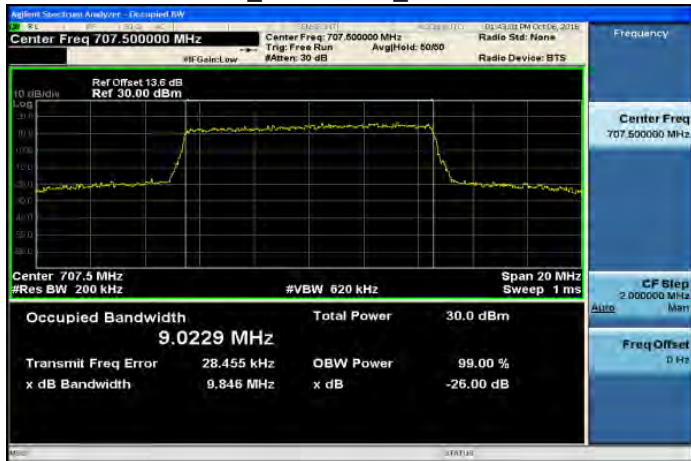
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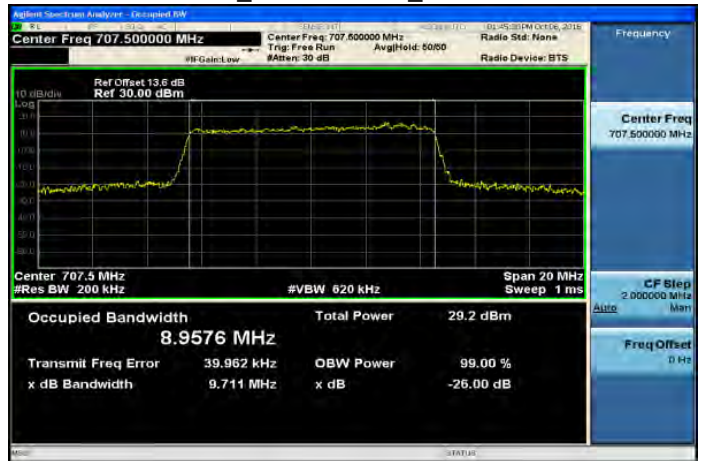
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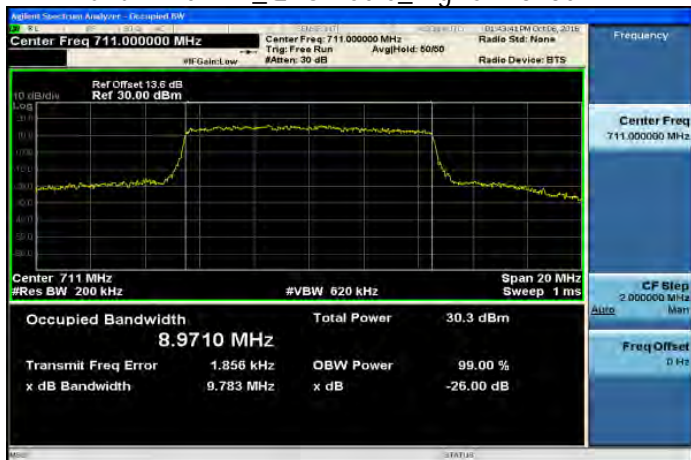
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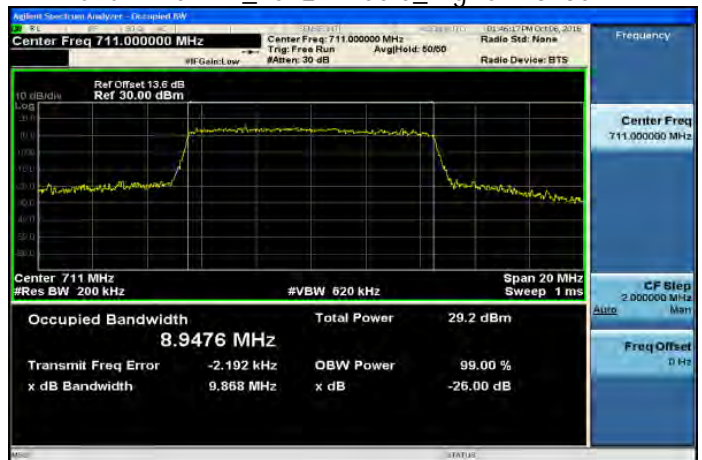
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Band12 10MHz_QPSK 50 0_HighCH23130-711



Band12 10MHz_16-QAM 50 0_HighCH23130-711



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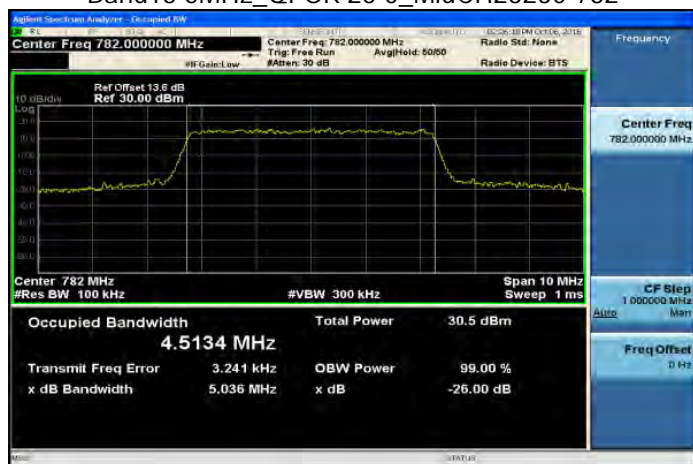
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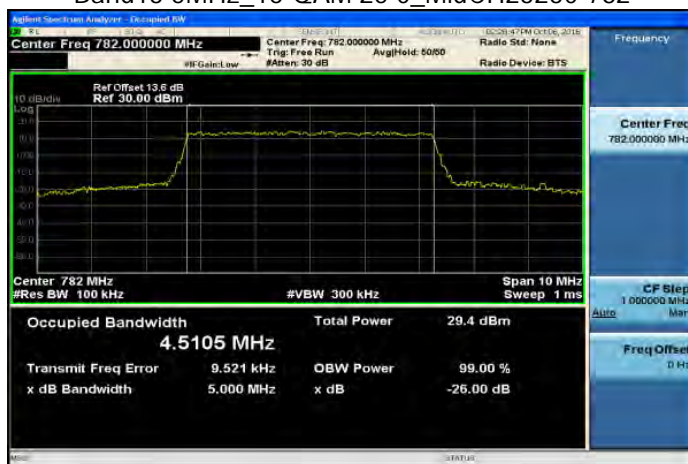
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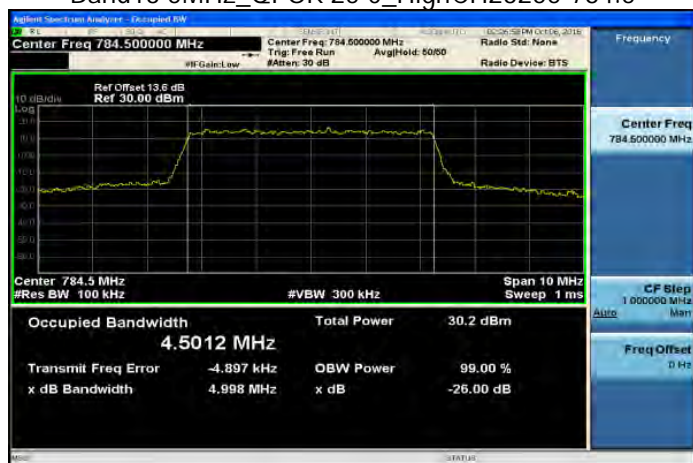
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Band13 5MHz_16-QAM 25 0_MidCH23230-782



Band13 5MHz_QPSK 25 0_HighCH23255-784.5



Band13 5MHz_16-QAM 25 0_HighCH23255-784.5



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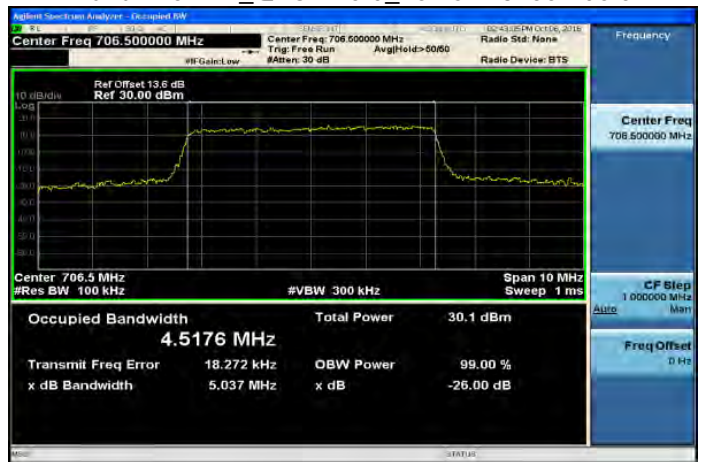
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Band13 10MHz_QPSK 50 0_MidCH23230-782



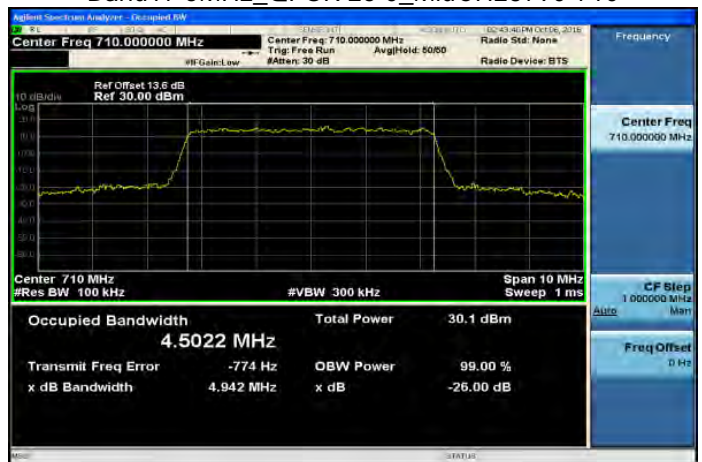
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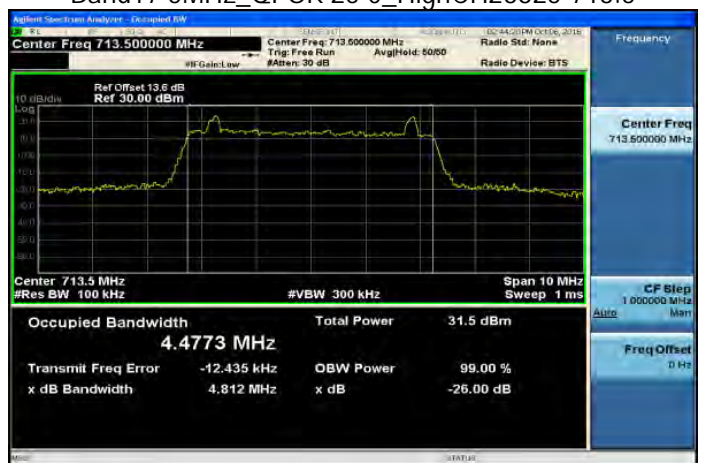
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Band17 5MHz_QPSK 25 0_MidCH23790-710



Band17 5MHz_QPSK 25 0_HighCH23825-713.5



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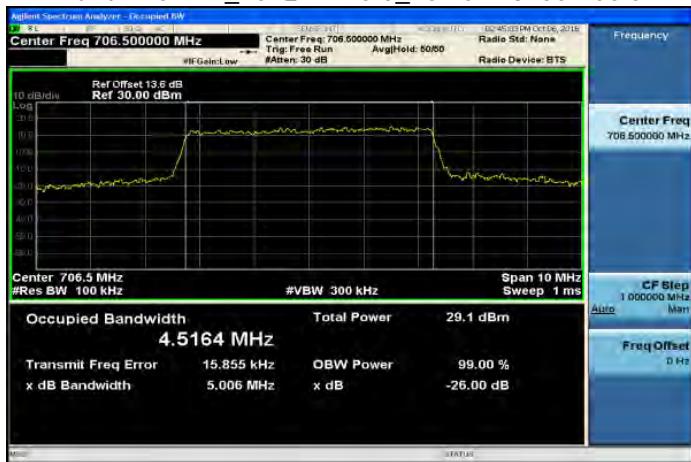
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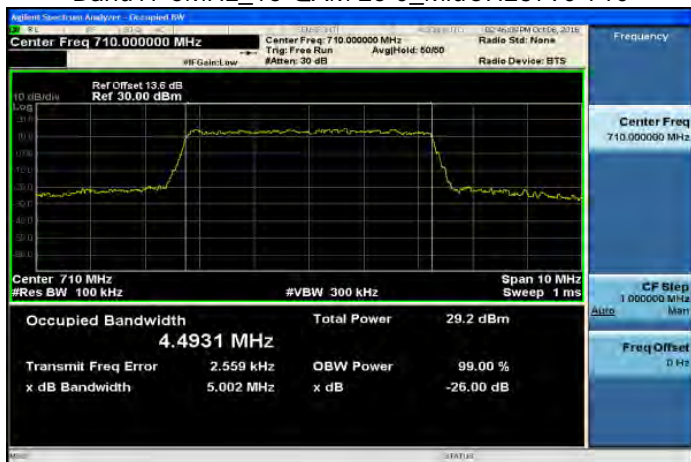
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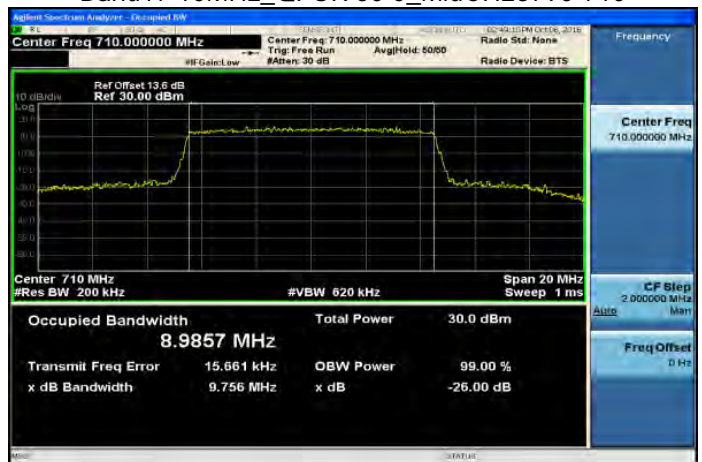
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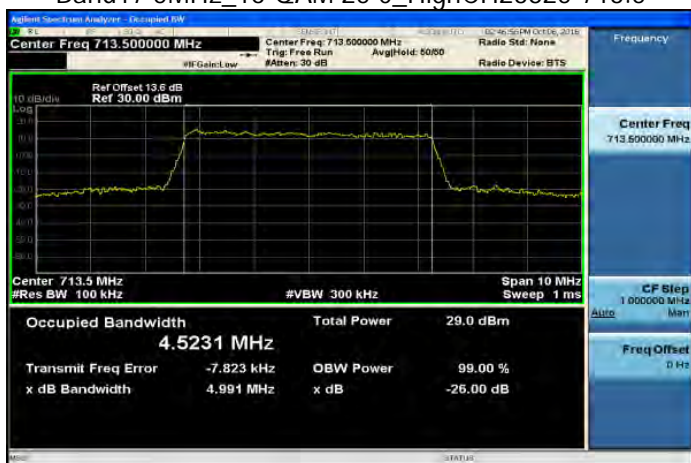
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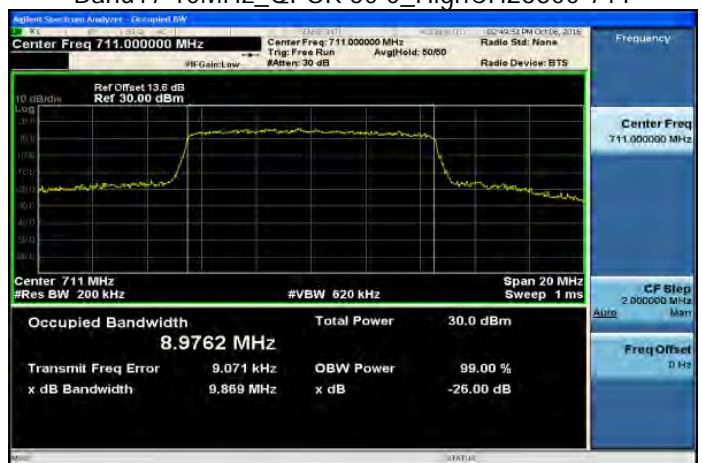
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Band17 5MHz_16-QAM 25 0_HighCH23825-713.5



Band17 10MHz_QPSK 50 0_HighCH23800-711



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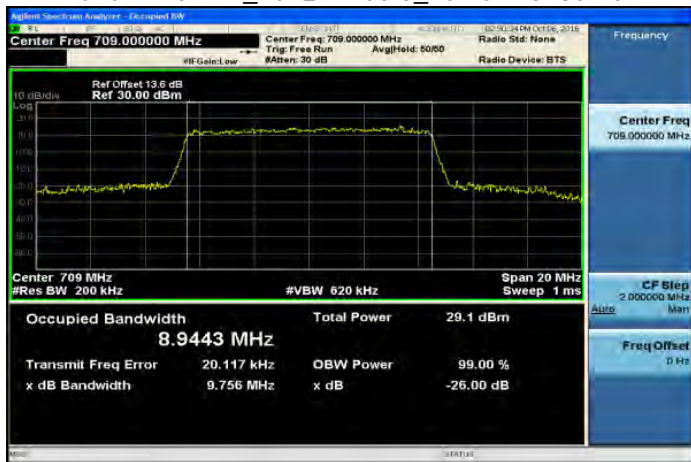
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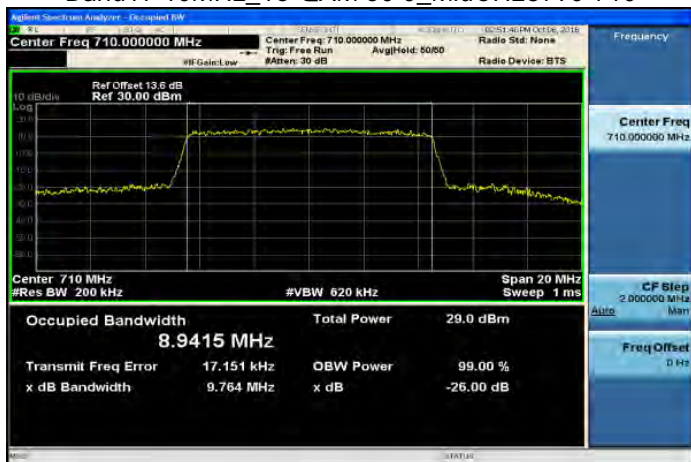
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Band17 10MHz_16-QAM 50 0_HighCH23800-711



Band17 10MHz_16-QAM 50 0_MidCH23790-710



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