



FCC RADIO TEST REPORT

FCC ID : A4RG013C
Equipment : Smartphone
Model Name : G013C
Applicant : Google LLC
1600 Amphitheatre Parkway,
Mountain View, California, 94043 USA
Standard : 47 CFR Part 2, 22(H), 24(E), 27

The test was completed on Jul. 05, 2018. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Jones Tsai

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Appendix A. Test Results of Conducted Test

Appendix B. Test Results of ERP/EIRP and Radiated Test



History of this test report

| Report No. | Version | Description | Issued Date |
|--------------|---------|---|---------------|
| FG820502-02B | 01 | Initial issue of report | Jul. 05, 2018 |
| FG820502-02B | 02 | Revising test data in section 1.4 and appendix a. | Jul. 18, 2018 |
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Summary of Test Result

| Report Clause | Ref Std. Clause | Test Items | Result (PASS/FAIL) | Remark |
|---------------|---|--|--------------------|--------|
| 3.2 | §2.1046 | Conducted Output Power | Reporting only | - |
| | §22.913 (a)(2) | Effective Radiated Power (Band 5) (Band 26) | Pass | |
| | §27.50 (b)(10) §27.50 (c)(10) | Effective Radiated Power (Band 12) (Band 13) (Band 17) (Band 71) | | |
| | §24.232 (c) §27.50 (h)(2) | Equivalent Isotropic Radiated Power (Band 2) (Band 25) (Band 7) (Band 38) (Band 41) | | |
| | §27.50 (d)(4) | Equivalent Isotropic Radiated Power (Band 4) (Band 66) | | |
| | - | Effective Isotropic Radiated Power (Band 30) | | |
| 3.3 | §24.232 (d) §27.50 (d)(5) | Peak-to-Average Ratio | Pass | - |
| 3.4 | §27.50 (a)(3) | EIRP Power Density (Band 30) | Pass | - |
| 3.5 | §2.1049 | Occupied Bandwidth | Reporting only | - |
| 3.6 | §2.1051 §22.917 (a) §24.238 (a) §27.53 (c)(2)(4) §27.53 (g) §27.53 (h) | Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26) (Band 66) (Band 71) | Pass | - |
| | §2.1051 §27.53 (m)(4) | Conducted Band Edge Measurement (Band 7) (Band 38) (Band 41) | | |
| | §2.1051 §27.53 (a)(4) | Conducted Band Edge Measurement (Band 30) | | |
| 3.7 | §2.1051 §22.917 (a) §24.238 (a) §27.53 (c)(2) §27.53 (g) §27.53 (h) | Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26) (Band 66) (Band 71) | Pass | - |
| | §2.1051 §27.53 (m)(4) | Conducted Spurious Emission (Band 7) (Band 38) (Band 41) | | |
| | §2.1051 §27.53 (a)(4) | Conducted Spurious Emission (Band 30) | | |
| 3.8 | §2.1055 §22.355 §24.235 §27.54 | Frequency Stability Temperature & Voltage | Pass | - |



| Report Clause | Ref Std. Clause | Test Items | Result (PASS/FAIL) | Remark |
|---------------|--|---|--------------------|---|
| 4.2 | §2.1053 §22.917 (a) §24.238 (a) §27.53 (c)(2) §27.53 (f) §27.53 (g) | Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26) (Band 66) (Band 71) | Pass | Under limit 1.42 dB at 8016.000 MHz |
| | §2.1053 §27.53 (m)(4) | Radiated Spurious Emission (Band 7) (Band 38) (Band 41) | | |
| | §2.1053 §27.53 (a)(4) | Radiated Spurious Emission (Band 30) | | |

Reviewed by: Joseph Lin

Report Producer: Maggie Chiang



1 General Description

1.1 Product Feature of Equipment Under Test

| Product Feature | |
|---------------------------------|---|
| Equipment | Smartphone |
| Model Name | G013C |
| FCC ID | A4RG013C |
| EUT supports Radios application | CDMA/EV-DO/GSM/EGPRS/WCDMA/HSPA/LTE/NFC/ GNSS/WPC WLAN 11b/g/n HT20/VHT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE |
| EUT Stage | Identical Prototype |

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

| EUT Information List | |
|----------------------|-----------|
| No. | S/N |
| #1 | 85KY0092X |
| #2 | 85LY009B6 |



1.2 Product Specification of Equipment Under Test

| Standards-related Product Specification | |
|---|--|
| Tx Frequency | LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 13: 779.5 MHz ~ 784.5 MHz LTE Band 17: 706.5 MHz ~ 713.5 MHz LTE Band 25: 1850.7MHz ~ 1914.3 MHz LTE Band 26: 824.7MHz ~ 848.3 MHz LTE Band 30: 2307.5 MHz ~2312.5 MHz LTE Band 38: 2572.5 MHz ~ 2617.5 MHz LTE Band 41: 2498.5 MHz ~ 2687.5 MHz LTE Band 66: 1710.7 MHz ~ 1754.3 MHz LTE Band 71: 665.5 MHz ~ 695.5 MHz |
| Rx Frequency | LTE Band 2: 1930.7 MHz ~ 1989.3 MHz LTE Band 4: 2110.7 MHz ~ 2154.3 MHz LTE Band 5: 869.7 MHz ~ 893.3 MHz LTE Band 7: 2622.5MHz ~ 2687.5 MHz LTE Band 12: 729.7 MHz ~ 745.3 MHz LTE Band 13: 748.5 MHz ~ 753.5 MHz LTE Band 17: 736.5 MHz ~ 743.5 MHz LTE Band 25: 1930.7MHz ~ 1994.3 MHz LTE Band 26: 869.7MHz ~ 893.3MHz LTE Band 30: 2352.5 MHz ~ 2357.5 MHz LTE Band 38: 2572.5MHz ~ 2617.5MHz LTE Band 41: 2498.5 MHz ~ 2687.5 MHz LTE Band 66: 2110.7 MHz ~ 2154.3 MHz LTE Band 71: 619.5 MHz ~ 649.5 MHz |
| Bandwidth | LTE Band 2: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 4: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 5: 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 7: 5MHz / 10MHz / 15MHz / 20MHz LTE Band 12: 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 13: 5MHz / 10MHz LTE Band 17: 5MHz / 10MHz LTE Band 25: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 26: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz LTE Band 30: 5MHz / 10MHz LTE Band 38: 5MHz / 10MHz / 15MHz / 20MHz LTE Band 41: 5MHz / 10MHz / 15MHz / 20MHz LTE Band 66: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 71: 5MHz / 10MHz / 15MHz / 20MHz |



| Standards-related Product Specification | |
|---|--|
| Maximum Output Power to Antenna | LTE Band 2 : 23.72 dBm LTE Band 4 : 23.32 dBm LTE Band 5 : 23.91 dBm LTE Band 7 : 23.36 dBm LTE Band 12 : 23.81 dBm LTE Band 13 : 23.60 dBm LTE Band 17 : 23.59 dBm LTE Band 25 : 23.61 dBm LTE Band 26 : 24.32 dBm LTE Band 30 : 23.19 dBm LTE Band 38 : 23.37 dBm LTE Band 41 : 25.08 dBm LTE Band 41 : 26.12 dBm for HPUE LTE Band 66 : 23.23 dBm LTE Band 71 : 24.47 dBm |
| Antenna Type / Gain | <For Main Antenna> LTE Band 2 : integrated loop Antenna type with gain 3.70 dBi LTE Band 4 : integrated loop Antenna type with gain 3.70 dBi LTE Band 5 : integrated loop Antenna type with gain -1.60 dBi LTE Band 7 : integrated loop Antenna type with gain -0.90 dBi LTE Band 12 : integrated loop Antenna type with gain -1.60 dBi LTE Band 13 : integrated loop Antenna type with gain -1.60 dBi LTE Band 17 : integrated loop Antenna type with gain -1.60 dBi LTE Band 25 : integrated loop Antenna type with gain 3.70 dBi LTE Band 26 : integrated loop Antenna type with gain -1.60 dBi LTE Band 30 : integrated loop Antenna type with gain -0.90 dBi LTE Band 38 : integrated loop Antenna type with gain -0.90 dBi LTE Band 41 : integrated loop Antenna type with gain -0.90 dBi LTE Band 66 : integrated loop Antenna type with gain 3.70 dBi LTE Band 71 : integrated loop Antenna type with gain -1.60 dBi <For Aux. Antenna> LTE Band 2 : integrated monopole Antenna type with gain -0.50 dBi LTE Band 4 : integrated monopole Antenna type with gain -0.50 dBi LTE Band 5 : integrated monopole Antenna type with gain -3.00 dBi LTE Band 7 : integrated monopole Antenna type with gain -0.90 dBi LTE Band 12 : integrated monopole Antenna type with gain -3.50 dBi LTE Band 13 : integrated monopole Antenna type with gain -3.50 dBi LTE Band 17 : integrated monopole Antenna type with gain -3.50 dBi LTE Band 25 : integrated monopole Antenna type with gain -0.50 dBi LTE Band 26 : integrated monopole Antenna type with gain -3.00 dBi LTE Band 30 : integrated monopole Antenna type with gain -0.90 dBi LTE Band 38 : integrated monopole Antenna type with gain -0.90 dBi LTE Band 41 : integrated monopole Antenna type with gain -0.90 dBi LTE Band 66 : integrated monopole Antenna type with gain -0.50 dBi LTE Band 71 : integrated monopole Antenna type with gain -3.50 dBi |
| Type of Modulation | QPSK / 16QAM / 64QAM |

1.3 Modification of EUT

No modifications are made to the EUT during all test items.



1.4 Emission Designator

<For Main Antenna>

| LTE Band 2 | | QPSK | | | 16QAM | | | 64QAM | | |
|-------------|-----------------------|------------------------------|---------------------------|-----------------|------------------------------|---------------------------|-----------------|------------------------------|---------------------------|-----------------|
| BW (MHz) | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) |
| 1.4 | 1850.7 ~ 1909.3 | - | - | 0.5433 | - | - | 0.4624 | - | - | 0.3664 |
| 3 | 1851.5 ~ 1908.5 | - | - | 0.5433 | - | - | 0.4667 | - | - | 0.3639 |
| 5 | 1852.5 ~ 1907.5 | - | - | 0.5470 | - | - | 0.4634 | - | - | 0.3664 |
| 10 | 1855.0 ~ 1905.0 | - | - | 0.5433 | - | - | 0.4667 | - | - | 0.3648 |
| 15 | 1857.5 ~ 1902.5 | - | - | 0.5508 | - | - | 0.4677 | - | - | 0.3681 |
| 20 | 1860.0 ~ 1900.0 | - | - | 0.5521 | - | - | 0.4571 | - | - | 0.3715 |
| LTE Band 25 | | QPSK | | | 16QAM | | | 64QAM | | |
| BW (MHz) | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) |
| 1.4 | 1850.7 ~ 1914.3 | 1M09G7D | - | 0.5070 | 1M10W7D | - | 0.4416 | 1M10W7D | - | 0.3436 |
| 3 | 1851.5 ~ 1913.5 | 2M72G7D | - | 0.5105 | 2M73W7D | - | 0.4335 | 2M72W7D | - | 0.3420 |
| 5 | 1852.5 ~ 1912.5 | 4M50G7D | - | 0.5152 | 4M50W7D | - | 0.4498 | 4M51W7D | - | 0.3443 |
| 10 | 1855.0 ~ 1910.0 | 9M05G7D | 0.0063 | 0.5164 | 9M03W7D | - | 0.4457 | 9M03W7D | - | 0.3467 |
| 15 | 1857.5 ~ 1907.5 | 13M5G7D | - | 0.5321 | 13M5W7D | - | 0.4519 | 13M5W7D | - | 0.3631 |
| 20 | 1860.0 ~ 1905.0 | 18M3G7D | - | 0.5383 | 18M4W7D | - | 0.4592 | 18M3W7D | - | 0.3614 |
| LTE Band 4 | | QPSK | | | 16QAM | | | 64QAM | | |
| BW (MHz) | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) |
| 1.4 | 1710.7 ~ 1754.3 | - | - | 0.4603 | - | - | 0.3917 | - | - | 0.3342 |
| 3 | 1711.5 ~ 1753.5 | - | - | 0.4592 | - | - | 0.3963 | - | - | 0.3069 |
| 5 | 1712.5 ~ 1752.5 | - | - | 0.4667 | - | - | 0.4036 | - | - | 0.3141 |
| 10 | 1715.0 ~ 1750.0 | - | - | 0.4667 | - | - | 0.4055 | - | - | 0.3373 |
| 15 | 1717.5 ~ 1747.5 | - | - | 0.4764 | - | - | 0.4130 | - | - | 0.3388 |
| 20 | 1720.0 ~ 1745.0 | - | - | 0.5035 | - | - | 0.4365 | - | - | 0.3428 |
| LTE Band 5 | | QPSK | | | 16QAM | | | 64QAM | | |
| BW (MHz) | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) |
| 1.4 | 824.7 ~ 848.3 | - | - | 0.0993 | - | - | 0.0861 | - | - | 0.0673 |
| 3 | 825.5 ~ 847.5 | - | - | 0.1012 | - | - | 0.0869 | - | - | 0.0690 |
| 5 | 826.5 ~ 846.5 | - | - | 0.1028 | - | - | 0.0863 | - | - | 0.0678 |
| 10 | 829.0 ~ 844.0 | - | - | 0.1038 | - | - | 0.0912 | - | - | 0.0689 |



| LTE Band 7 | | QPSK | | | 16QAM | | | 64QAM | | |
|-------------|-----------------------|------------------------------|---------------------------|-----------------|------------------------------|---------------------------|-----------------|------------------------------|---------------------------|-----------------|
| BW (MHz) | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) |
| 5 | 2502.5 ~ 2567.5 | 4M50G7D | - | 0.1570 | 4M48W7D | - | 0.1352 | 4M51W7D | - | 0.1159 |
| 10 | 2505.0 ~ 2565.0 | 9M03G7D | 0.0061 | 0.1567 | 9M03W7D | - | 0.1361 | 9M09W7D | - | 0.1153 |
| 15 | 2507.5 ~ 2562.5 | 13M5G7D | - | 0.1574 | 13M6W7D | - | 0.1355 | 13M4W7D | - | 0.1059 |
| 20 | 2510.0 ~ 2560.0 | 18M4G7D | - | 0.1762 | 18M5W7D | - | 0.1531 | 18M4W7D | - | 0.1178 |
| LTE Band 12 | | QPSK | | | 16QAM | | | 64QAM | | |
| BW (MHz) | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) |
| 1.4 | 699.7 ~ 715.3 | 1M09G7D | - | 0.1012 | 1M10W7D | - | 0.0869 | 1M09W7D | - | 0.0671 |
| 3 | 700.5 ~ 714.5 | 2M73G7D | - | 0.1000 | 2M73W7D | - | 0.0851 | 2M74W7D | - | 0.0662 |
| 5 | 701.5 ~ 713.5 | 4M51G7D | - | 0.0991 | 4M50W7D | - | 0.0863 | 4M51W7D | - | 0.0665 |
| 10 | 704.0 ~ 711.0 | 9M07G7D | 0.0188 | 0.1014 | 9M07W7D | - | 0.0861 | 9M03W7D | - | 0.0678 |
| LTE Band 13 | | QPSK | | | 16QAM | | | 64QAM | | |
| BW (MHz) | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) |
| 5 | 779.5 ~ 784.5 | 4M49G7D | - | 0.0962 | 4M52W7D | - | 0.0830 | 4M50W7D | - | 0.0647 |
| 10 | 782.0 | 8M99G7D | 0.0121 | 0.0966 | 9M03W7D | - | 0.0838 | 9M01W7D | - | 0.0638 |
| LTE Band 17 | | QPSK | | | 16QAM | | | 64QAM | | |
| BW (MHz) | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) |
| 5 | 706.5 ~ 713.5 | - | - | 0.0962 | - | - | 0.0820 | - | - | 0.0638 |
| 10 | 709.0 ~ 711.0 | - | - | 0.0964 | - | - | 0.0841 | - | - | 0.0652 |
| LTE Band 26 | | QPSK | | | 16QAM | | | 64QAM | | |
| BW (MHz) | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) |
| 1.4 | 824.7 ~ 848.3 | 1M09G7D | - | 0.1000 | 1M09W7D | - | 0.0859 | 1M09W7D | - | 0.0668 |
| 3 | 825.5 ~ 847.5 | 2M72G7D | - | 0.1007 | 2M72W7D | - | 0.0867 | 2M73W7D | - | 0.0671 |
| 5 | 826.5 ~ 846.5 | 4M50G7D | - | 0.1016 | 4M52W7D | - | 0.0855 | 4M50W7D | - | 0.0678 |
| 10 | 829.0 ~ 844.0 | 9M05G7D | 0.0053 | 0.1023 | 9M01W7D | - | 0.0875 | 9M09W7D | - | 0.0697 |
| 15 | 831.5 ~ 841.5 | 13M5G7D | - | 0.1140 | 13M5W7D | - | 0.0944 | 13M5W7D | - | 0.0750 |



| LTE Band 38 | | QPSK | | | 16QAM | | | 64QAM | | |
|------------------|-----------------------|------------------------------|---------------------------|-----------------|------------------------------|---------------------------|-----------------|------------------------------|---------------------------|-----------------|
| BW (MHz) | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) |
| 5 | 2572.5 ~ 2617.5 | - | - | 0.1702 | - | - | 0.1387 | - | - | 0.1014 |
| 10 | 2575.0 ~ 2615.0 | - | - | 0.1702 | - | - | 0.1380 | - | - | 0.0998 |
| 15 | 2577.5 ~ 2612.5 | - | - | 0.1746 | - | - | 0.1432 | - | - | 0.1045 |
| 20 | 2580.0 ~ 2610.0 | - | - | 0.1766 | - | - | 0.1469 | - | - | 0.1064 |
| LTE Band 41 | | QPSK | | | 16QAM | | | 64QAM | | |
| BW (MHz) | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) |
| 5 | 2498.5 ~ 2687.5 | - | - | 0.2344 | - | - | 0.1914 | - | - | 0.1396 |
| 10 | 2501.0 ~ 2685.0 | - | - | 0.2360 | - | - | 0.1945 | - | - | 0.1409 |
| 15 | 2503.5 ~ 2682.5 | - | - | 0.2393 | - | - | 0.1977 | - | - | 0.1429 |
| 20 | 2506.0 ~ 2680.0 | - | - | 0.2618 | - | - | 0.2113 | - | - | 0.1607 |
| LTE Band 41 HPUE | | QPSK | | | 16QAM | | | 64QAM | | |
| BW (MHz) | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) |
| 5 | 2498.5 ~ 2687.5 | 4M52G7D | - | 0.3266 | 4M51W7D | - | 0.2780 | 4M53W7D | - | 0.2123 |
| 10 | 2501.0 ~ 2685.0 | 9M07G7D | 0.0052 | 0.3289 | 9M03W7D | - | 0.2805 | 9M03W7D | - | 0.2158 |
| 15 | 2503.5 ~ 2682.5 | 13M5G7D | - | 0.3296 | 13M5W7D | - | 0.2831 | 13M4W7D | - | 0.2158 |
| 20 | 2506.0 ~ 2680.0 | 18M3G7D | - | 0.3327 | 18M3W7D | - | 0.3006 | 18M4W7D | - | 0.2958 |
| LTE Band 66 | | QPSK | | | 16QAM | | | 64QAM | | |
| BW (MHz) | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) |
| 1.4 | 1710.7 ~ 1779.3 | 1M09G7D | - | 0.4920 | 1M10W7D | - | 0.4385 | 1M09W7D | - | 0.3412 |
| 3 | 1711.5 ~ 1778.5 | 2M73G7D | - | 0.4753 | 2M75W7D | - | 0.4102 | 2M74W7D | - | 0.3192 |
| 5 | 1712.5 ~ 1777.5 | 4M50G7D | - | 0.4764 | 4M49W7D | - | 0.4102 | 4M52W7D | - | 0.3206 |
| 10 | 1715.0 ~ 1775.0 | 9M03G7D | 0.0124 | 0.4775 | 9M03W7D | - | 0.4140 | 9M05W7D | - | 0.3243 |
| 15 | 1717.5 ~ 1772.5 | 13M5G7D | - | 0.4831 | 13M5W7D | - | 0.4305 | 13M5W7D | - | 0.3273 |
| 20 | 1720.0 ~ 1770.0 | 18M4G7D | - | 0.4932 | 18M4W7D | - | 0.4276 | 18M5W7D | - | 0.3258 |



| LTE Band 71 | | QPSK | | | 16QAM | | | 64QAM | | |
|-------------|-----------------------|------------------------------|---------------------------|---------------------|------------------------------|---------------------------|---------------------|------------------------------|---------------------------|---------------------|
| BW (MHz) | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) |
| 5 | 665.5 ~ 695.5 | 4M51G7D | - | 0.1928 | 4M50W7D | - | 0.1671 | 4M50W7D | - | 0.1309 |
| 10 | 668.0 ~ 693.0 | 9M03G7D | 0.0128 | 0.1905 | 8M99W7D | - | 0.1648 | 9M01W7D | - | 0.1294 |
| 15 | 670.5 ~ 690.5 | 13M5G7D | - | 0.2193 | 13M5W7D | - | 0.1849 | 13M4W7D | - | 0.1416 |
| 20 | 673.0 ~ 688.0 | 18M4G7D | | 0.2799 | 18M5W7D | | 0.2239 | 18M5W7D | | 0.1774 |
| LTE Band 30 | | QPSK | | | 16QAM | | | 64QAM | | |
| BW (MHz) | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum PSD EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum PSD EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum PSD EIRP(W) |
| 5 | 2307.5 ~ 2312.5 | 4M50G7D | - | 0.1683 | 4M51W7D | - | 0.1455 | 4M50W7D | - | 0.1130 |
| 10 | 2310.0 | 9M01G7D | 0.0015 | 0.1694 | 9M01W7D | - | 0.1449 | 9M03W7D | - | 0.1153 |

<For Aux. Antenna>

| LTE Band 2 | | QPSK | | | 16QAM | | | 64QAM | | |
|-------------|-----------------------|------------------------------|---------------------------|-----------------|------------------------------|---------------------------|-----------------|------------------------------|---------------------------|-----------------|
| BW (MHz) | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) |
| 1.4 | 1850.7 ~ 1909.3 | - | - | 0.2065 | - | - | 0.1758 | - | - | 0.1393 |
| 3 | 1851.5 ~ 1908.5 | - | - | 0.2065 | - | - | 0.1774 | - | - | 0.1384 |
| 5 | 1852.5 ~ 1907.5 | - | - | 0.2080 | - | - | 0.1762 | - | - | 0.1393 |
| 10 | 1855.0 ~ 1905.0 | - | - | 0.2065 | - | - | 0.1774 | - | - | 0.1387 |
| 15 | 1857.5 ~ 1902.5 | - | - | 0.2094 | - | - | 0.1778 | - | - | 0.1400 |
| 20 | 1860.0 ~ 1900.0 | - | - | 0.2099 | - | - | 0.1738 | - | - | 0.1413 |
| LTE Band 25 | | QPSK | | | 16QAM | | | 64QAM | | |
| BW (MHz) | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) |
| 1.4 | 1850.7 ~ 1914.3 | - | - | 0.1928 | - | - | 0.1679 | - | - | 0.1306 |
| 3 | 1851.5 ~ 1913.5 | - | - | 0.1941 | - | - | 0.1648 | - | - | 0.1300 |
| 5 | 1852.5 ~ 1912.5 | - | - | 0.1959 | - | - | 0.1710 | - | - | 0.1309 |
| 10 | 1855.0 ~ 1910.0 | - | - | 0.1963 | - | - | 0.1694 | - | - | 0.1318 |
| 15 | 1857.5 ~ 1907.5 | - | - | 0.2023 | - | - | 0.1718 | - | - | 0.1380 |
| 20 | 1860.0 ~ 1905.0 | - | - | 0.2046 | - | - | 0.1746 | - | - | 0.1374 |



| LTE Band 4 | | QPSK | | | 16QAM | | | 64QAM | | |
|-------------|-----------------------|------------------------------|---------------------------|-----------------|------------------------------|---------------------------|-----------------|------------------------------|---------------------------|-----------------|
| BW (MHz) | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) |
| 1.4 | 1710.7 ~ 1754.3 | - | - | 0.1750 | - | - | 0.1489 | - | - | 0.1271 |
| 3 | 1711.5 ~ 1753.5 | - | - | 0.1746 | - | - | 0.1507 | - | - | 0.1167 |
| 5 | 1712.5 ~ 1752.5 | - | - | 0.1774 | - | - | 0.1535 | - | - | 0.1194 |
| 10 | 1715.0 ~ 1750.0 | - | - | 0.1774 | - | - | 0.1542 | - | - | 0.1282 |
| 15 | 1717.5 ~ 1747.5 | - | - | 0.1811 | - | - | 0.1570 | - | - | 0.1288 |
| 20 | 1720.0 ~ 1745.0 | - | - | 0.1914 | - | - | 0.1660 | - | - | 0.1303 |
| LTE Band 5 | | QPSK | | | 16QAM | | | 64QAM | | |
| BW (MHz) | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) |
| 1.4 | 824.7 ~ 848.3 | - | - | 0.0719 | - | - | 0.0624 | - | - | 0.0488 |
| 3 | 825.5 ~ 847.5 | - | - | 0.0733 | - | - | 0.0630 | - | - | 0.0500 |
| 5 | 826.5 ~ 846.5 | - | - | 0.0745 | - | - | 0.0625 | - | - | 0.0491 |
| 10 | 829.0 ~ 844.0 | - | - | 0.0752 | - | - | 0.0661 | - | - | 0.0499 |
| LTE Band 7 | | QPSK | | | 16QAM | | | 64QAM | | |
| BW (MHz) | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) |
| 5 | 2502.5 ~ 2567.5 | - | - | 0.1570 | - | - | 0.1352 | - | - | 0.1159 |
| 10 | 2505.0 ~ 2565.0 | - | - | 0.1567 | - | - | 0.1361 | - | - | 0.1153 |
| 15 | 2507.5 ~ 2562.5 | - | - | 0.1574 | - | - | 0.1355 | - | - | 0.1059 |
| 20 | 2510.0 ~ 2560.0 | - | - | 0.1762 | - | - | 0.1531 | - | - | 0.1178 |
| LTE Band 12 | | QPSK | | | 16QAM | | | 64QAM | | |
| BW (MHz) | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) |
| 1.4 | 699.7 ~ 715.3 | - | - | 0.0653 | - | - | 0.0561 | - | - | 0.0434 |
| 3 | 700.5 ~ 714.5 | - | - | 0.0646 | - | - | 0.0550 | - | - | 0.0428 |
| 5 | 701.5 ~ 713.5 | - | - | 0.0640 | - | - | 0.0557 | - | - | 0.0430 |
| 10 | 704.0 ~ 711.0 | - | - | 0.0655 | - | - | 0.0556 | - | - | 0.0438 |
| LTE Band 13 | | QPSK | | | 16QAM | | | 64QAM | | |
| BW (MHz) | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) |
| 5 | 779.5 ~ 784.5 | - | - | 0.0621 | - | - | 0.0536 | - | - | 0.0418 |
| 10 | 782.0 | - | - | 0.0624 | - | - | 0.0541 | - | - | 0.0412 |



| LTE Band 17 | | QPSK | | | 16QAM | | | 64QAM | | |
|------------------|-----------------------|------------------------------|---------------------------|-----------------|------------------------------|---------------------------|-----------------|------------------------------|---------------------------|-----------------|
| BW (MHz) | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) |
| 5 | 706.5 ~ 713.5 | - | - | 0.0621 | - | - | 0.0530 | - | - | 0.0412 |
| 10 | 709.0 ~ 711.0 | - | - | 0.0622 | - | - | 0.0543 | - | - | 0.0421 |
| LTE Band 26 | | QPSK | | | 16QAM | | | 64QAM | | |
| BW (MHz) | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) |
| 1.4 | 824.7 ~ 848.3 | - | - | 0.0724 | - | - | 0.0622 | - | - | 0.0484 |
| 3 | 825.5 ~ 847.5 | - | - | 0.0729 | - | - | 0.0628 | - | - | 0.0486 |
| 5 | 826.5 ~ 846.5 | - | - | 0.0736 | - | - | 0.0619 | - | - | 0.0491 |
| 10 | 829.0 ~ 844.0 | - | - | 0.0741 | - | - | 0.0634 | - | - | 0.0505 |
| 15 | 831.5 ~ 841.5 | - | - | 0.0826 | - | - | 0.0684 | - | - | 0.0543 |
| LTE Band 38 | | QPSK | | | 16QAM | | | 64QAM | | |
| BW (MHz) | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) |
| 5 | 2572.5 ~ 2617.5 | - | - | 0.1702 | - | - | 0.1387 | - | - | 0.1014 |
| 10 | 2575.0 ~ 2615.0 | - | - | 0.1702 | - | - | 0.1380 | - | - | 0.0998 |
| 15 | 2577.5 ~ 2612.5 | - | - | 0.1746 | - | - | 0.1432 | - | - | 0.1045 |
| 20 | 2580.0 ~ 2610.0 | - | - | 0.1766 | - | - | 0.1469 | - | - | 0.1064 |
| LTE Band 41 | | QPSK | | | 16QAM | | | 64QAM | | |
| BW (MHz) | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) |
| 5 | 2498.5 ~ 2687.5 | - | - | 0.2344 | - | - | 0.1914 | - | - | 0.1396 |
| 10 | 2501.0 ~ 2685.0 | - | - | 0.2360 | - | - | 0.1945 | - | - | 0.1409 |
| 15 | 2503.5 ~ 2682.5 | - | - | 0.2393 | - | - | 0.1977 | - | - | 0.1429 |
| 20 | 2506.0 ~ 2680.0 | - | - | 0.2618 | - | - | 0.2113 | - | - | 0.1607 |
| LTE Band 41 HPUE | | QPSK | | | 16QAM | | | 64QAM | | |
| BW (MHz) | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) |
| 5 | 2498.5 ~ 2687.5 | - | - | 0.3266 | - | - | 0.2780 | - | - | 0.2123 |
| 10 | 2501.0 ~ 2685.0 | - | - | 0.3289 | - | - | 0.2805 | - | - | 0.2158 |
| 15 | 2503.5 ~ 2682.5 | - | - | 0.3296 | - | - | 0.2831 | - | - | 0.2158 |
| 20 | 2506.0 ~ 2680.0 | - | - | 0.3327 | - | - | 0.3006 | - | - | 0.2958 |



| LTE Band 66 | | QPSK | | | 16QAM | | | 64QAM | | |
|-------------|-----------------------|------------------------------|---------------------------|---------------------|------------------------------|---------------------------|---------------------|------------------------------|---------------------------|---------------------|
| BW (MHz) | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) |
| 1.4 | 1710.7 ~ 1779.3 | - | - | 0.1871 | - | - | 0.1667 | - | - | 0.1297 |
| 3 | 1711.5 ~ 1778.5 | - | - | 0.1807 | - | - | 0.1560 | - | - | 0.1213 |
| 5 | 1712.5 ~ 1777.5 | - | - | 0.1811 | - | - | 0.1560 | - | - | 0.1219 |
| 10 | 1715.0 ~ 1775.0 | - | - | 0.1816 | - | - | 0.1574 | - | - | 0.1233 |
| 15 | 1717.5 ~ 1772.5 | - | - | 0.1837 | - | - | 0.1637 | - | - | 0.1245 |
| 20 | 1720.0 ~ 1770.0 | - | - | 0.1875 | - | - | 0.1626 | - | - | 0.1239 |
| LTE Band 71 | | QPSK | | | 16QAM | | | 64QAM | | |
| BW (MHz) | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) |
| 5 | 665.5 ~ 695.5 | - | - | 0.1928 | - | - | 0.1671 | - | - | 0.1309 |
| 10 | 668.0 ~ 693.0 | - | - | 0.1905 | - | - | 0.1648 | - | - | 0.1294 |
| 15 | 670.5 ~ 690.5 | - | - | 0.2193 | - | - | 0.1849 | - | - | 0.1416 |
| 20 | 673.0 ~ 688.0 | - | - | 0.2799 | - | - | 0.2239 | - | - | 0.1774 |
| LTE Band 30 | | QPSK | | | 16QAM | | | 64QAM | | |
| BW (MHz) | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum PSD EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum PSD EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum PSD EIRP(W) |
| 5 | 2307.5 ~ 2312.5 | - | - | 0.1683 | - | - | 0.1455 | - | - | 0.1130 |
| 10 | 2310.0 | - | - | 0.1694 | - | - | 0.1449 | - | - | 0.1153 |



1.5 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1190 and TW0007 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

| | |
|---------------------------|---|
| Test Site | SPORTON INTERNATIONAL INC. |
| Test Site Location | No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978 |
| Test Site No. | Sporton Site No. |
| | TH05-HY |

Note: The test site complies with ANSI C63.4 2014 requirement.

| | |
|---------------------------|---|
| Test Site | SPORTON INTERNATIONAL INC. |
| Test Site Location | No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855 |
| Test Site No. | Sporton Site No. |
| | 03CH13-HY |

Note: The test site complies with ANSI C63.4 2014 requirement.

1.6 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ 47 CFR Part 2, 22(H), 24(E), 27
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane for LTE Band 26, 12, 13, 38, 71 for Main Antenna and Band 26, 13, 38 for Aux. Antenna, Y plane for LTE Band 41, 66, 30 for Main Antenna and Band 7, 12, 41, 71 for Aux. Antenna, and Z plane for LTE Band 7, 25 for Main Antenna and Band 25, 30, 66 for Aux. Antenna) were recorded in this report.

| Test Items | Band | Bandwidth (MHz) | | | | | | Modulation | | | RB # | | | Test Channel | | |
|-------------------|------|-----------------|---|---|----|----|----|------------|-------|-------|------|------|------|--------------|---|---|
| | | 1.4 | 3 | 5 | 10 | 15 | 20 | QPSK | 16QAM | 64QAM | 1 | Half | Full | L | M | H |
| Max. Output Power | 2 | v | v | v | v | v | v | v | v | v | v | v | v | v | v | v |
| | 4 | v | v | v | v | v | v | v | v | v | v | v | v | v | v | v |
| | 5 | v | v | v | v | - | - | v | v | v | v | v | v | v | v | v |
| | 7 | - | - | v | v | v | v | v | v | v | v | v | v | v | v | v |
| | 12 | v | v | v | v | - | - | v | v | v | v | v | v | v | v | v |
| | 13 | - | - | v | v | - | - | v | v | v | v | v | v | v | v | v |
| | 17 | - | - | v | v | - | - | v | v | v | v | v | v | v | v | v |
| | 25 | v | v | v | v | v | v | v | v | v | v | v | v | v | v | v |
| | 26 | v | v | v | v | v | - | v | v | v | v | v | v | v | v | v |
| | 38 | - | - | v | v | v | v | v | v | v | v | v | v | v | v | v |
| | 41 | - | - | v | v | v | v | v | v | v | v | v | v | v | v | v |
| | 66 | v | v | v | v | v | v | v | v | v | v | v | v | v | v | v |
| 71 | - | - | v | v | v | v | v | v | v | v | v | v | v | v | v | |



| Test Items | Band | Bandwidth (MHz) | | | | | Modulation | | | RB # | | | Test Channel | | | |
|------------------------|------|--------------------|---|---|----|----|------------|------|-------|-------|---|------|--------------|---|---|---|
| | | 1.4 | 3 | 5 | 10 | 15 | 20 | QPSK | 16QAM | 64QAM | 1 | Half | Full | L | M | H |
| Peak-to-Average Ratio | 2 | Covered by Band 25 | | | | | | | | | | | v | v | v | |
| | 4 | Covered by Band 66 | | | | | | | | | | | v | v | v | |
| | 5 | Covered by Band 26 | | | | | | | | | | | v | v | v | |
| | 7 | - | - | | | | v | v | v | v | v | | v | v | v | v |
| | 12 | | | | v | - | - | v | v | v | v | | v | v | v | v |
| | 13 | - | - | | v | - | - | v | v | v | v | v | v | v | v | v |
| | 17 | Covered by Band 12 | | | | | | | | | | | v | v | v | |
| | 25 | | | | | | v | v | v | v | v | | v | v | v | v |
| | 26 | | | | | v | - | v | v | v | v | | v | v | v | v |
| | 38 | Covered by Band 41 | | | | | | | | | | | v | v | v | |
| | 41 | - | - | | | | v | v | v | v | v | | v | v | v | v |
| | 66 | | | | | | v | v | v | v | v | | v | v | v | v |
| 71 | - | - | | | | v | v | v | v | v | | v | v | v | v | |
| 26dB and 99% Bandwidth | 2 | Covered by Band 25 | | | | | | | | | | | v | v | v | |
| | 4 | Covered by Band 66 | | | | | | | | | | | v | v | v | |
| | 5 | Covered by Band 26 | | | | | | | | | | | v | v | v | |
| | 7 | - | - | v | v | v | v | v | v | v | | | v | v | v | v |
| | 12 | v | v | v | v | - | - | v | v | v | | | v | v | v | v |
| | 13 | - | - | v | v | - | - | v | v | v | | | v | v | v | v |
| | 17 | Covered by Band 12 | | | | | | | | | | | v | v | v | |
| | 25 | v | v | v | v | v | v | v | v | v | | | v | v | v | v |
| | 26 | v | v | v | v | v | - | v | v | v | | | v | v | v | v |
| | 38 | Covered by Band 41 | | | | | | | | | | | v | v | v | |
| | 41 | - | - | v | v | v | v | v | v | v | | | v | v | v | v |
| | 66 | v | v | v | v | v | v | v | v | v | | | v | v | v | v |
| 71 | - | - | v | v | v | v | v | v | v | | | v | v | v | v | |



| Test Items | Band | Bandwidth (MHz) | | | | | | Modulation | | | RB # | | | Test Channel | | |
|-----------------------------|------|--------------------|---|---|----|----|----|------------|-------|-------|------|------|------|--------------|---|---|
| | | 1.4 | 3 | 5 | 10 | 15 | 20 | QPSK | 16QAM | 64QAM | 1 | Half | Full | L | M | H |
| Conducted Band Edge | 2 | Covered by Band 25 | | | | | | | | | | | v | | v | |
| | 4 | Covered by Band 66 | | | | | | | | | | | v | | v | |
| | 5 | Covered by Band 26 | | | | | | | | | | | v | | v | |
| | 7 | - | - | v | v | v | v | v | v | v | v | | v | v | | v |
| | 12 | v | v | v | v | - | - | v | v | v | v | | v | v | | v |
| | 13 | - | - | v | v | - | - | v | v | v | v | | v | v | | v |
| | 17 | Covered by Band 12 | | | | | | | | | | | v | | v | |
| | 25 | v | v | v | v | v | v | v | v | v | v | | v | v | | v |
| | 26 | v | v | v | v | v | - | v | v | v | v | | v | v | | v |
| | 38 | Covered by Band 41 | | | | | | | | | | | v | | v | |
| | 41 | - | - | v | v | v | v | v | v | v | v | | v | v | | v |
| | 66 | v | v | v | v | v | v | v | v | v | v | | v | v | | v |
| 71 | - | - | v | v | v | v | v | v | v | v | | v | v | | v | |
| Conducted Spurious Emission | 2 | Covered by Band 25 | | | | | | | | | | | v | v | v | |
| | 4 | Covered by Band 66 | | | | | | | | | | | v | v | v | |
| | 5 | Covered by Band 26 | | | | | | | | | | | v | v | v | |
| | 7 | - | - | v | v | v | v | v | v | v | v | | | v | v | v |
| | 12 | v | v | v | v | - | - | v | v | v | v | | | v | v | v |
| | 13 | - | - | v | v | - | - | v | v | v | v | | | v | v | v |
| | 17 | Covered by Band 12 | | | | | | | | | | | v | v | v | |
| | 25 | v | v | v | v | v | v | v | v | v | v | | | v | v | v |
| | 26 | v | v | v | v | v | - | v | v | v | v | | | v | v | v |
| | 38 | Covered by Band 41 | | | | | | | | | | | v | v | v | |
| | 41 | - | - | v | v | v | v | v | v | v | v | | | v | v | v |
| | 66 | v | v | v | v | v | v | v | v | v | v | | | v | v | v |
| 71 | - | - | v | v | v | v | v | v | v | v | | | v | v | v | |



| Test Items | Band | Bandwidth (MHz) | | | | | | Modulation | | | RB # | | | Test Channel | | |
|---------------------|------|--------------------|---|---|----|----|----|------------|-------|-------|------|------|------|--------------|---|---|
| | | 1.4 | 3 | 5 | 10 | 15 | 20 | QPSK | 16QAM | 64QAM | 1 | Half | Full | L | M | H |
| Frequency Stability | 2 | Covered by Band 25 | | | | | | | | | | | | v | | |
| | 4 | Covered by Band 66 | | | | | | | | | | | | v | | |
| | 5 | Covered by Band 26 | | | | | | | | | | | | v | | |
| | 7 | - | - | | v | | | v | | | | | v | | v | |
| | 12 | | | | v | - | - | v | | | | | v | | v | |
| | 13 | - | - | | v | - | - | v | | | | | v | | v | |
| | 17 | Covered by Band 12 | | | | | | | | | | | | v | | |
| | 25 | | | | v | | | v | | | | | v | | v | |
| | 26 | | | | v | | - | v | | | | | v | | v | |
| | 38 | Covered by Band 41 | | | | | | | | | | | | v | | |
| | 41 | - | - | | v | | | v | | | | | v | | v | |
| | 66 | | | | v | | | v | | | | | v | | v | |
| 71 | - | - | | v | | | v | | | | | v | | v | | |
| E.R.P / E.I.R.P | 2 | v | v | v | v | v | v | v | v | v | v | v | v | v | v | v |
| | 4 | v | v | v | v | v | v | v | v | v | v | v | v | v | v | v |
| | 5 | v | v | v | v | - | - | v | v | v | v | v | v | v | v | v |
| | 7 | - | - | v | v | v | v | v | v | v | v | v | v | v | v | v |
| | 12 | v | v | v | v | - | - | v | v | v | v | v | v | v | v | v |
| | 13 | - | - | v | v | - | - | v | v | v | v | v | v | v | v | v |
| | 17 | - | - | v | v | - | - | v | v | v | v | v | v | v | v | v |
| | 25 | v | v | v | v | v | v | v | v | v | v | v | v | v | v | v |
| | 26 | v | v | v | v | v | - | v | v | v | v | v | v | v | v | v |
| | 38 | - | - | v | v | v | v | v | v | v | v | v | v | v | v | v |
| | 41 | - | - | v | v | v | v | v | v | v | v | v | v | v | v | v |
| | 66 | v | v | v | v | v | v | v | v | v | v | v | v | v | v | v |
| 71 | - | - | v | v | v | v | v | v | v | v | v | v | v | v | v | |



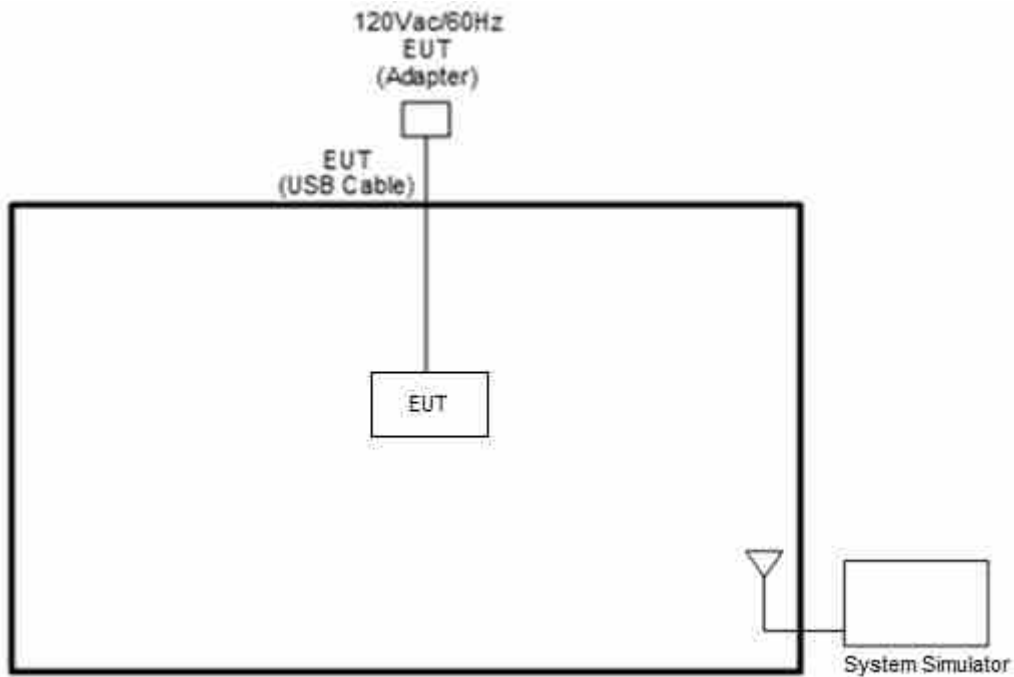
| Test Items | Band | Bandwidth (MHz) | | | | | | Modulation | | | RB # | | | Test Channel | | |
|----------------------------|---|--------------------|---|---|----|----|----|------------|-------|-------|------|------|------|--------------|---|---|
| | | 1.4 | 3 | 5 | 10 | 15 | 20 | QPSK | 16QAM | 64QAM | 1 | Half | Full | L | M | H |
| Radiated Spurious Emission | 2 | Covered by Band 25 | | | | | | | | | | | | v | v | v |
| | 4 | Covered by Band 66 | | | | | | | | | | | | v | v | v |
| | 5 | Covered by Band 26 | | | | | | | | | | | | v | v | v |
| | 7 | Worst Case | | | | | | | | | | | | v | v | v |
| | 12 | Worst Case | | | | | | | | | | | | v | v | v |
| | 13 | Worst Case | | | | | | | | | | | | v | v | v |
| | 17 | Covered by Band 12 | | | | | | | | | | | | v | v | v |
| | 25 | Worst Case | | | | | | | | | | | | v | v | v |
| | 26 | Worst Case | | | | | | | | | | | | v | v | v |
| | 38 | Covered by Band 41 | | | | | | | | | | | | v | v | v |
| | 41 | Worst Case | | | | | | | | | | | | v | v | v |
| | 66 | Worst Case | | | | | | | | | | | | v | v | v |
| | 71 | Worst Case | | | | | | | | | | | | v | v | v |
| Remark | <ol style="list-style-type: none"> The mark "v" means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. All the radiated test cases were performed with Adapter 1. | | | | | | | | | | | | | | | |



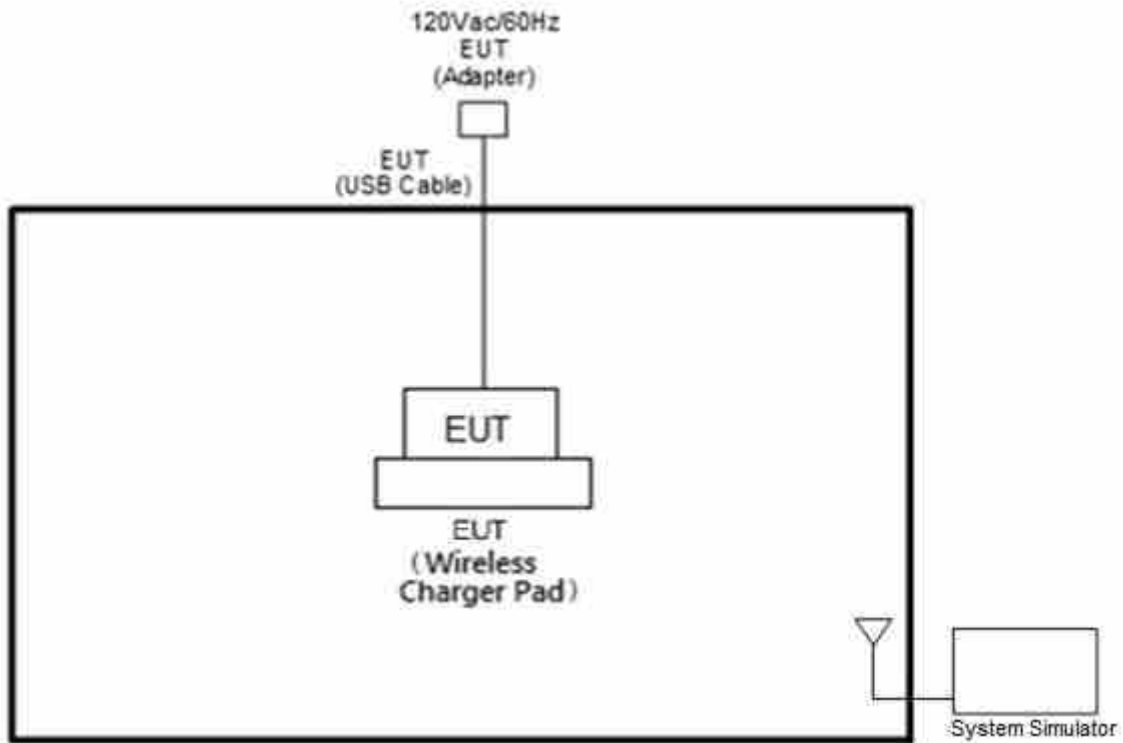
| Test Items | Band | Bandwidth (MHz) | | | | | | Modulation | | | RB # | | | Test Channel | | |
|-----------------------------|---|-------------------|---|---|----|----|----|------------|-------|-------|------|------|------|--------------|---|---|
| | | 1.4 | 3 | 5 | 10 | 15 | 20 | QPSK | 16QAM | 64QAM | 1 | Half | Full | L | M | H |
| Max. Output Power | 30 | - | - | v | v | - | - | v | v | v | v | v | v | v | v | v |
| Peak-to-Average Ratio | 30 | - | - | v | v | - | - | v | v | v | v | | v | v | v | v |
| E.I.R.P PSD | 30 | - | - | v | v | - | - | v | v | v | v | v | v | v | v | v |
| 26dB and 99% Bandwidth | 30 | - | - | v | v | - | - | v | v | v | | | v | v | v | v |
| Conducted Band Edge | 30 | - | - | v | v | - | - | v | v | v | v | | v | | | v |
| Conducted Spurious Emission | 30 | - | - | v | v | - | - | v | v | v | v | | | v | v | v |
| Frequency Stability | 30 | - | - | v | v | - | - | v | v | v | | | v | | v | |
| Radiated Spurious Emission | 30 | Worst Case | | | | | | | | | | | v | v | v | |
| Remark | <ol style="list-style-type: none"> The mark "v" means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. All the radiated test cases were performed with Adapter 1. | | | | | | | | | | | | | | | |

2.2 Connection Diagram of Test System

<For Adapter Mode>



<For WPC Charging Mode>





2.3 Support Unit used in test configuration and system

| Item | Equipment | Trade Name | Model No. | FCC ID | Data Cable | Power Cord |
|------|------------------|------------|-----------|--------|------------|------------|
| 1. | LTE Base Station | Anritsu | MT8821C | N/A | N/A | N/A |

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 attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

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

$$\text{Offset} = \text{RF cable loss} + \text{attenuator factor}.$$

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 4.2 + 10 = 14.2 \text{ (dB)} \end{aligned}$$



2.5 Frequency List of Low/Middle/High Channels

| LTE Band 2 Channel and Frequency List | | | | |
|---------------------------------------|------------------------|--------|--------|---------|
| BW [MHz] | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20 | Channel | 18700 | 18900 | 19100 |
| | Frequency | 1860 | 1880 | 1900 |
| 15 | Channel | 18675 | 18900 | 19125 |
| | Frequency | 1857.5 | 1880 | 1902.5 |
| 10 | Channel | 18650 | 18900 | 19150 |
| | Frequency | 1855 | 1880 | 1905 |
| 5 | Channel | 18625 | 18900 | 19175 |
| | Frequency | 1852.5 | 1880 | 1907.5 |
| 3 | Channel | 18615 | 18900 | 19185 |
| | Frequency | 1851.5 | 1880 | 1908.5 |
| 1.4 | Channel | 18607 | 18900 | 19193 |
| | Frequency | 1850.7 | 1880 | 1909.3 |

| LTE Band 4 Channel and Frequency List | | | | |
|---------------------------------------|------------------------|--------|--------|---------|
| BW [MHz] | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20 | Channel | 20050 | 20175 | 20300 |
| | Frequency | 1720 | 1732.5 | 1745 |
| 15 | Channel | 20025 | 20175 | 20325 |
| | Frequency | 1717.5 | 1732.5 | 1747.5 |
| 10 | Channel | 20000 | 20175 | 20350 |
| | Frequency | 1715 | 1732.5 | 1750 |
| 5 | Channel | 19975 | 20175 | 20375 |
| | Frequency | 1712.5 | 1732.5 | 1752.5 |
| 3 | Channel | 19965 | 20175 | 20385 |
| | Frequency | 1711.5 | 1732.5 | 1753.5 |
| 1.4 | Channel | 19957 | 20175 | 20393 |
| | Frequency | 1710.7 | 1732.5 | 1754.3 |



| LTE Band 5 Channel and Frequency List | | | | |
|---------------------------------------|------------------------|--------|--------|---------|
| BW [MHz] | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10 | Channel | 20450 | 20525 | 20600 |
| | Frequency | 829 | 836.5 | 844 |
| 5 | Channel | 20425 | 20525 | 20625 |
| | Frequency | 826.5 | 836.5 | 846.5 |
| 3 | Channel | 20415 | 20525 | 20635 |
| | Frequency | 825.5 | 836.5 | 847.5 |
| 1.4 | Channel | 20407 | 20525 | 20643 |
| | Frequency | 824.7 | 836.5 | 848.3 |

| LTE Band 7 Channel and Frequency List | | | | |
|---------------------------------------|------------------------|--------|--------|---------|
| BW [MHz] | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20 | Channel | 20850 | 21100 | 21350 |
| | Frequency | 2510 | 2535 | 2560 |
| 15 | Channel | 20825 | 21100 | 21375 |
| | Frequency | 2507.5 | 2535 | 2562.5 |
| 10 | Channel | 20800 | 21100 | 21400 |
| | Frequency | 2505 | 2535 | 2565 |
| 5 | Channel | 20775 | 21100 | 21425 |
| | Frequency | 2502.5 | 2535 | 2567.5 |

| LTE Band 12 Channel and Frequency List | | | | |
|--|------------------------|--------|--------|---------|
| BW [MHz] | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10 | Channel | 23060 | 23095 | 23130 |
| | Frequency | 704 | 707.5 | 711 |
| 5 | Channel | 23035 | 23095 | 23155 |
| | Frequency | 701.5 | 707.5 | 713.5 |
| 3 | Channel | 23025 | 23095 | 23165 |
| | Frequency | 700.5 | 707.5 | 714.5 |
| 1.4 | Channel | 23017 | 23095 | 23173 |
| | Frequency | 699.7 | 707.5 | 715.3 |



| LTE Band 13 Channel and Frequency List | | | | |
|--|------------------------|--------|--------|---------|
| BW [MHz] | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10 | Channel | - | 23230 | - |
| | Frequency | - | 782 | - |
| 5 | Channel | 23205 | 23230 | 23255 |
| | Frequency | 779.5 | 782 | 784.5 |

| LTE Band 17 Channel and Frequency List | | | | |
|--|------------------------|--------|--------|---------|
| BW [MHz] | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10 | Channel | 23780 | 23790 | 23800 |
| | Frequency | 709 | 710 | 711 |
| 5 | Channel | 23755 | 23790 | 23825 |
| | Frequency | 706.5 | 710 | 713.5 |

| LTE Band 25 Channel and Frequency List | | | | |
|--|------------------------|--------|--------|---------|
| BW [MHz] | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20 | Channel | 26140 | 26340 | 26590 |
| | Frequency | 1860 | 1880 | 1905 |
| 15 | Channel | 26115 | 26340 | 26615 |
| | Frequency | 1857.5 | 1880 | 1907.5 |
| 10 | Channel | 26090 | 26340 | 26640 |
| | Frequency | 1855 | 1880 | 1910 |
| 5 | Channel | 26065 | 26340 | 26665 |
| | Frequency | 1852.5 | 1880 | 1912.5 |
| 3 | Channel | 26055 | 26340 | 26675 |
| | Frequency | 1851.5 | 1880 | 1913.5 |
| 1.4 | Channel | 26047 | 26340 | 26683 |
| | Frequency | 1850.7 | 1880 | 1914.3 |



| LTE Band 26 Channel and Frequency List | | | | |
|--|------------------------|--------|--------|---------|
| BW [MHz] | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 15 | Channel | 26865 | 26915 | 26965 |
| | Frequency | 831.5 | 836.5 | 841.5 |
| 10 | Channel | 26840 | 26915 | 26990 |
| | Frequency | 829 | 836.5 | 844 |
| 5 | Channel | 26815 | 26915 | 27015 |
| | Frequency | 826.5 | 836.5 | 846.5 |
| 3 | Channel | 26805 | 26915 | 27025 |
| | Frequency | 825.5 | 836.5 | 847.5 |
| 1.4 | Channel | 26797 | 26915 | 27033 |
| | Frequency | 824.7 | 836.5 | 848.3 |

| LTE Band 38 Channel and Frequency List | | | | |
|--|------------------------|--------|--------|---------|
| BW [MHz] | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20 | Channel | 37850 | 38000 | 38150 |
| | Frequency | 2580 | 2595 | 2610 |
| 15 | Channel | 37825 | 38000 | 38175 |
| | Frequency | 2577.5 | 2595 | 2612.5 |
| 10 | Channel | 37800 | 38000 | 38200 |
| | Frequency | 2575 | 2595 | 2615 |
| 5 | Channel | 37775 | 38000 | 38225 |
| | Frequency | 2572.5 | 2595 | 2617.5 |

| LTE Band 41 Channel and Frequency List | | | | |
|--|------------------------|--------|--------|---------|
| BW [MHz] | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20 | Channel | 39750 | 40620 | 41490 |
| | Frequency | 2506 | 2593 | 2680 |
| 15 | Channel | 39725 | 40620 | 41515 |
| | Frequency | 2503.5 | 2593 | 2682.5 |
| 10 | Channel | 39700 | 40620 | 41540 |
| | Frequency | 2501 | 2593 | 2685 |
| 5 | Channel | 39675 | 40620 | 41565 |
| | Frequency | 2498.5 | 2593 | 2687.5 |



| LTE Band 66 Channel and Frequency List | | | | |
|--|------------------------|--------|--------|---------|
| BW [MHz] | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20 | Channel | 132072 | 132322 | 132572 |
| | Frequency | 1720 | 1745 | 1770 |
| 15 | Channel | 132047 | 132322 | 132597 |
| | Frequency | 1717.5 | 1745 | 1772.5 |
| 10 | Channel | 132022 | 132322 | 132622 |
| | Frequency | 1715 | 1745 | 1775 |
| 5 | Channel | 131997 | 132322 | 132647 |
| | Frequency | 1712.5 | 1745 | 1777.5 |
| 3 | Channel | 131987 | 132322 | 132657 |
| | Frequency | 1711.5 | 1745 | 1778.5 |
| 1.4 | Channel | 131979 | 132322 | 132665 |
| | Frequency | 1710.7 | 1745 | 1779.3 |

| LTE Band 71 Channel and Frequency List | | | | |
|--|------------------------|--------|--------|---------|
| BW [MHz] | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20 | Channel | 133222 | 133297 | 133372 |
| | Frequency | 673 | 680.5 | 688 |
| 15 | Channel | 133197 | 133297 | 133397 |
| | Frequency | 670.5 | 680.5 | 690.5 |
| 10 | Channel | 133172 | 133297 | 133422 |
| | Frequency | 668 | 680.5 | 693 |
| 5 | Channel | 133147 | 133297 | 133447 |
| | Frequency | 665.5 | 680.5 | 695.5 |

| LTE Band 30 Channel and Frequency List | | | | |
|--|------------------------|--------|--------|---------|
| BW [MHz] | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10 | Channel | - | 27710 | - |
| | Frequency | - | 2310 | - |
| 5 | Channel | 27685 | 27710 | 27735 |
| | Frequency | 2307.5 | 2310 | 2312.5 |

3 Conducted Test Items

3.1 Measuring Instruments

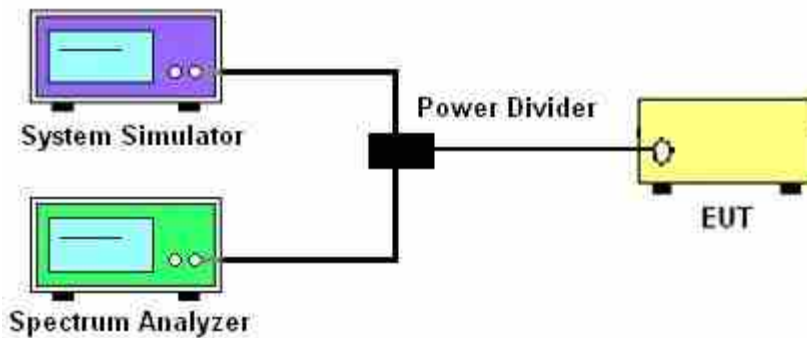
See list of measuring instruments of this test report.

3.1.1 Test Setup

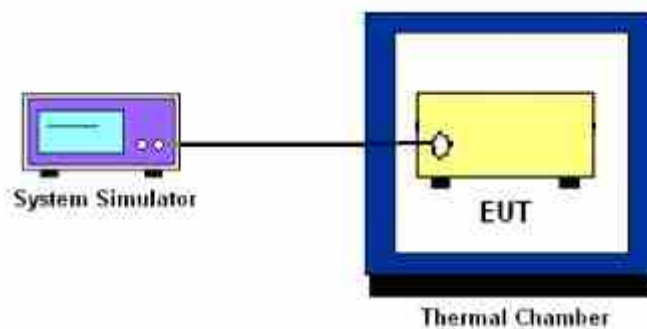
3.1.2 Conducted Output Power



3.1.3 Peak-to-Average Ratio, Occupied Bandwidth ,Conducted Band-Edge and Conducted Spurious Emission



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to Appendix A.



3.2 Conducted Output Power and ERP/EIRP

3.2.1 Description of the Conducted Output Power Measurement and ERP/EIRP Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5 and Band 26.

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12 and Band 13 and Band 17 and Band 71.

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2 and Band 25 and Band 7 and Band 38 and Band 41.

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4 and Band 66.

The EIRP of mobile transmitters must not exceed 0.25 Watts for LTE Band 30.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.2.2 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.



3.3 Peak-to-Average Ratio

3.3.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.3.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 5.7.1

1. The EUT was connected to spectrum and system simulator via a power divider.
2. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
3. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
4. Record the deviation as Peak to Average Ratio.



3.4 EIRP Power Density

3.4.1 Description of EIRP Power Density

For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, *except that* for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305-2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.

3.4.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 5.4

1. Set instrument center frequency to OBW center frequency.
2. Set span to at least 1.5 times the OBW.
3. Set the RBW to the specified reference bandwidth (5MHz).
4. Set VBW $\geq 3 \times$ RBW.
5. Detector = RMS (power averaging).
6. Ensure that the number of measurement points in the sweep $\geq 2 \times$ span/RBW.
7. Sweep time = auto couple.
8. Employ trace averaging (RMS) mode over a minimum of 100 traces.
9. Use the peak marker function to determine the maximum amplitude level within the reference bandwidth (PSD).
10. Determine the EIRP by adding the effective antenna gain to the adjusted power level.



3.5 Occupied Bandwidth

3.5.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.5.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 4.2

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
3. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
4. Set the detection mode to peak, and the trace mode to max hold.
5. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
(this is the reference value)
6. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
7. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.



3.6 Conducted Band Edge

3.6.1 Description of Conducted Band Edge Measurement

22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53 (c)

For operations in the 776-788 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least $65 + 10 \log_{10} p(\text{watts})$, dB, for mobile and portable equipment.

27.53 (g)

For operations in the 600MHz band and 698 -746 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

27.53 (h)

For operations in the 1710 – 1755 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

**27.53(m)(4)**

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

27.53 (a)(4)

For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

- (i) By a factor of not less than: $43 + 10 \log (P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log (P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log (P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log (P)$ dB on all frequencies between 2328 and 2337 MHz.
- (ii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log (P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log (P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log (P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log (P)$ dB below 2288 MHz.
- (iii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz.



3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.0.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured.
3. Set RBW \geq 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
5. Set spectrum analyzer with RMS detector.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. Checked that all the results comply with the emission limit line.
The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
8. For LTE Band 7, 38, 41, the other 40 dB, and 55 dB have additionally applied same calculation above.



3.7 Conducted Spurious Emission

3.7.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For Band 7, 38, 41:

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

For Band 30

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $70 + 10 \log (P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

3.7.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.0.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
6. Set spectrum analyzer with RMS detector.
7. Taking the record of maximum spurious emission.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
10. For Band 7, 38, 41
The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)



3.8 Frequency Stability

3.8.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

3.8.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in 10°C step up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.8.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was placed in a temperature chamber at $20\pm 5^{\circ}\text{C}$ and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

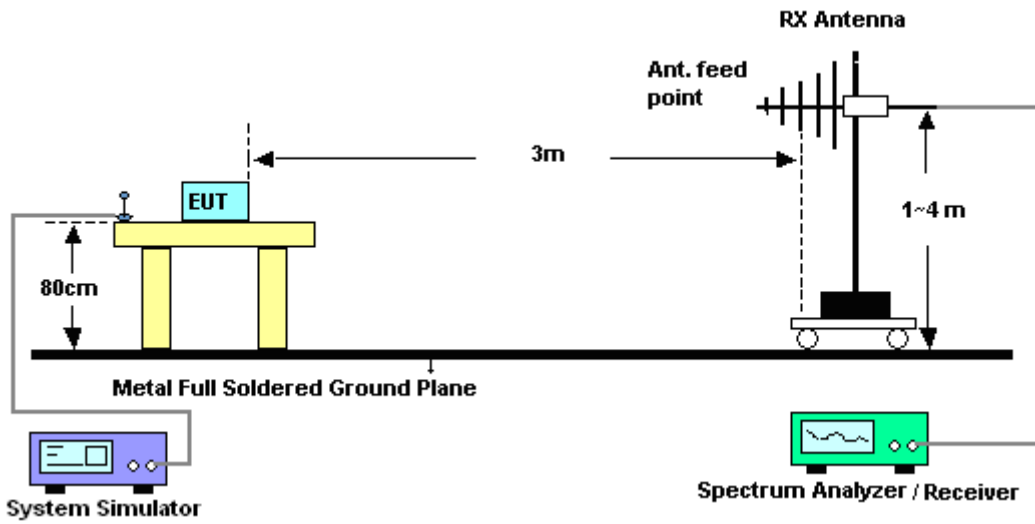
4 Radiated Test Items

4.1 Measuring Instruments

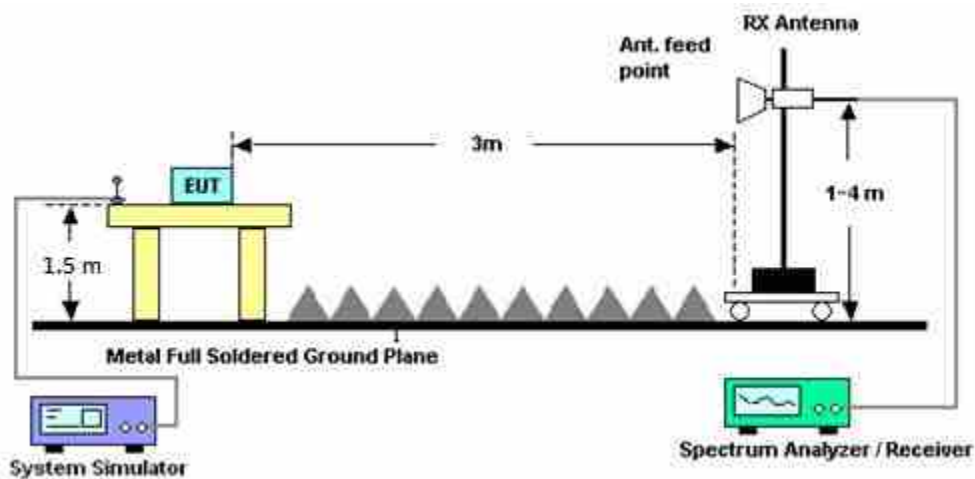
See list of measuring instruments of this test report.

4.1.1 Test Setup

For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



4.1.2 Test Result of Radiated Test

Please refer to Appendix B.



4.2 Radiated Spurious Emission

4.2.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For Band 7, 38, 41

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

For Band 13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

For Band 30

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $70 + 10 \log (P)$ dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.



4.2.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 5.8 and ANSI / TIA-603-E Section 2.2.12.

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
11. For Band 7, 38, 41:
The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)
 $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
 $ERP \text{ (dBm)} = EIRP - 2.15$
12. For Band 30
The limit line is derived from $70 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [70 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [70 + 10\log(P)] \text{ (dB)}$
 $= -40\text{dBm}.$



5 List of Measuring Equipment

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|---------------------------|-------------------|--|-------------|-------------------------|------------------|------------------------------|---------------|-----------------------|
| LTE Base Station | Anritsu | MT8820C | 6201432821 | GSM/GPRS /WCDMA/LTE | Oct. 13, 2017 | Mar. 11, 2018~ Jul. 05, 2018 | Oct. 12, 2018 | Conducted (TH05-HY) |
| Spectrum Analyzer | Rohde & Schwarz | FSV40 | 101397 | 10Hz~40GHz | Nov. 07, 2017 | Mar. 11, 2018~ Jul. 05, 2018 | Nov. 06, 2018 | Conducted (TH05-HY) |
| Temperature Chamber | ESPEC | SH-641 | 92013720 | -30°C~70°C | Aug. 28, 2017 | Mar. 11, 2018~ Jul. 05, 2018 | Aug. 27, 2018 | Conducted (TH05-HY) |
| Programmable Power Supply | GW Instek | PSS-2005 | EL890001 | 1V~20V 0.5A~5A | Oct. 06, 2017 | Mar. 11, 2018~ Jul. 05, 2018 | Oct. 05, 2018 | Conducted (TH05-HY) |
| Coupler | Warison | 1-18GHz 20dB 25WSMA Directional Coupler | #B | 1G~18GHz | Dec. 04, 2017 | Mar. 11, 2018~ Jul. 05, 2018 | Dec. 03, 2018 | Conducted (TH05-HY) |
| Amplifier | Sonoma-Instrument | 310 N | 187282 | 9KHz~1GHz | Jan. 19, 2018 | Jun. 16, 2018~ Jun. 23, 2018 | Jan. 18, 2020 | Radiation (03CH13-HY) |
| Bilog Antenna | TESEQ | CBL 6111D&00800N1 D01N-06 | 40103&07 | 30MHz to 1GHz | Jan. 10, 2018 | Jun. 16, 2018~ Jun. 23, 2018 | Jan. 09, 2019 | Radiation (03CH13-HY) |
| Horn Antenna | SCHWARZBECK | BBHA 9120 D | 9120D-1212 | 1GHz ~ 18GHz | May 10, 2018 | Jun. 16, 2018~ Jun. 23, 2018 | May 09, 2019 | Radiation (03CH13-HY) |
| Preamplifier | MITEQ | AMF-7D-001018 00-30-10P | 1590074 | 1GHz~18GHz | May 21, 2018 | Jun. 16, 2018~ Jun. 23, 2018 | May 20, 2019 | Radiation (03CH13-HY) |
| Preamplifier | Keysight | 83017A | MY53270147 | 1GHz~26.5GHz | Feb. 02, 2018 | Jun. 16, 2018~ Jun. 23, 2018 | Feb. 01, 2019 | Radiation (03CH13-HY) |
| Spectrum Analyzer | Keysight | N9010A | MY55370526 | 10Hz~44GHz | Mar. 15, 2018 | Jun. 16, 2018~ Jun. 23, 2018 | Mar. 14, 2019 | Radiation (03CH13-HY) |
| Filter | Wainwright | WHKX12-2700-3 000-18000-60SS | SN2 | 3G High Pass | Sep. 18, 2017 | Jun. 16, 2018~ Jun. 23, 2018 | Sep. 17, 2018 | Radiation (03CH13-HY) |
| Antenna Mast | EMEC | AM-BS-4500-B | N/A | 1m~4m | N/A | Jun. 16, 2018~ Jun. 23, 2018 | N/A | Radiation (03CH13-HY) |
| Turn Table | EMEC | TT2000 | N/A | 0~360 Degree | N/A | Jun. 16, 2018~ Jun. 23, 2018 | N/A | Radiation (03CH13-HY) |
| SHF-EHF Horn Antenna | SCHWARZBECK | BBHA 9170 | BBHA9170251 | 18GHz- 40GHz | Nov. 10, 2017 | Jun. 16, 2018~ Jun. 23, 2018 | Nov. 09, 2018 | Radiation (03CH13-HY) |
| Horn Antenna | SCHWARZBECK | BBHA 9120 D | 9120D-1522 | 1G~18GHz | May 10, 2018 | Jun. 16, 2018~ Jun. 23, 2018 | May 09, 2019 | Radiation (03CH13-HY) |
| Signal Generator | Anritsu | MG3694C | 163401 | 0.1Hz~40GHz | Jan. 15, 2018 | Jun. 16, 2018~ Jun. 23, 2018 | Jan. 14, 2019 | Radiation (03CH13-HY) |
| SHF-EHF Horn Antenna | SCHWARZBECK | BBHA 9170 | BBHA9170584 | 18GHz- 40GHz | Nov. 27, 2017 | Jun. 16, 2018~ Jun. 23, 2018 | Nov. 26, 2018 | Radiation (03CH13-HY) |
| Filter | Wainwright | WHKX12-1080-1 200-15000-60ST | SN3 | 1.2GHz High Pass Filter | Jul. 06, 2017 | Jun. 16, 2018~ Jun. 23, 2018 | Jul. 05, 2018 | Radiation (03CH13-HY) |
| Software | AUDIX | E3 6.2009-8-24c | RK-001124 | N/A | N/A | Jun. 16, 2018~ Jun. 23, 2018 | N/A | Radiation (03CH13-HY) |



| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|------------|----------------|---------------|------------|-------------------------------------|------------------|---------------------------------|---------------|--------------------------|
| RF Cable | HUBER + SUHNER | SUCOFLEX 126E | 0030/126E | 30M-18G | Jan. 22, 2018 | Jun. 16, 2018~ Jun. 23, 2018 | Jan. 21, 2019 | Radiation (03CH13-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 104 | 335041/4 | 30M-18G | Jan. 22, 2018 | Jun. 16, 2018~ Jun. 23, 2018 | Jan. 21, 2019 | Radiation (03CH13-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 104 | MY24961/4 | 30M~18GHz | Jan. 22, 2018 | Jun. 16, 2018~ Jun. 23, 2018 | Jan. 21, 2019 | Radiation (03CH13-HY) |
| Amplifier | MITEQ | TTA1840-35-HG | 1871923 | 18GHz~40GHz, VSWR : 2.5:1 max | Jul. 18, 2017 | Jun. 16, 2018~ Jun. 23, 2018 | Jul. 17, 2018 | Radiation (03CH13-HY) |



6 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

| | |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 3.07 |
|---|------|

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

| | |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 3.48 |
|---|------|

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

| | |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 3.92 |
|---|------|



Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

| LTE Band 2 Maximum Average Power [dBm] | | | | | | |
|--|---------|-----------|--------|--------|--------|---------|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 20 | 1 | 0 | QPSK | 23.50 | 23.69 | 23.72 |
| 20 | 1 | 49 | | 23.35 | 23.29 | 23.43 |
| 20 | 1 | 99 | | 23.27 | 23.30 | 23.50 |
| 20 | 50 | 0 | | 22.45 | 22.40 | 22.63 |
| 20 | 50 | 24 | | 22.43 | 22.35 | 22.53 |
| 20 | 50 | 50 | | 22.37 | 22.29 | 22.46 |
| 20 | 100 | 0 | | 22.43 | 22.35 | 22.60 |
| 20 | 1 | 0 | 16-QAM | 22.76 | 22.76 | 22.86 |
| 20 | 1 | 49 | | 22.63 | 22.64 | 22.71 |
| 20 | 1 | 99 | | 22.66 | 22.74 | 22.90 |
| 20 | 50 | 0 | | 21.54 | 21.52 | 21.71 |
| 20 | 50 | 24 | | 21.53 | 21.48 | 21.63 |
| 20 | 50 | 50 | | 21.48 | 21.42 | 21.56 |
| 20 | 100 | 0 | | 21.56 | 21.41 | 21.67 |
| 20 | 1 | 0 | 64-QAM | 21.74 | 21.77 | 22.00 |
| 20 | 1 | 49 | | 21.55 | 21.57 | 21.75 |
| 20 | 1 | 99 | | 21.61 | 21.61 | 21.82 |
| 20 | 50 | 0 | | 20.58 | 20.52 | 20.73 |
| 20 | 50 | 24 | | 20.54 | 20.49 | 20.66 |
| 20 | 50 | 50 | | 20.46 | 20.40 | 20.60 |
| 20 | 100 | 0 | | 20.51 | 20.48 | 20.67 |
| 15 | 1 | 0 | QPSK | 23.51 | 23.41 | 23.71 |
| 15 | 1 | 37 | | 23.33 | 23.30 | 23.64 |
| 15 | 1 | 74 | | 23.33 | 23.26 | 23.67 |
| 15 | 36 | 0 | | 22.47 | 22.39 | 22.71 |
| 15 | 36 | 20 | | 22.43 | 22.37 | 22.62 |
| 15 | 36 | 39 | | 22.35 | 22.26 | 22.69 |
| 15 | 75 | 0 | | 22.37 | 22.34 | 22.66 |
| 15 | 1 | 0 | 16-QAM | 22.79 | 22.85 | 22.91 |
| 15 | 1 | 37 | | 22.69 | 22.56 | 22.90 |
| 15 | 1 | 74 | | 22.61 | 22.69 | 23.00 |
| 15 | 36 | 0 | | 21.59 | 21.45 | 21.81 |
| 15 | 36 | 20 | | 21.51 | 21.48 | 21.70 |
| 15 | 36 | 39 | | 21.48 | 21.45 | 21.77 |
| 15 | 75 | 0 | | 21.51 | 21.46 | 21.76 |
| 15 | 1 | 0 | 64-QAM | 21.82 | 21.68 | 21.86 |
| 15 | 1 | 37 | | 21.64 | 21.48 | 21.96 |
| 15 | 1 | 74 | | 21.65 | 21.60 | 21.93 |
| 15 | 36 | 0 | | 20.64 | 20.55 | 20.84 |
| 15 | 36 | 20 | | 20.56 | 20.51 | 20.76 |
| 15 | 36 | 39 | | 20.52 | 20.42 | 20.78 |
| 15 | 75 | 0 | | 20.49 | 20.47 | 20.74 |



| LTE Band 2 Maximum Average Power [dBm] | | | | | | |
|--|---------|-----------|--------|--------|--------|---------|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 10 | 1 | 0 | QPSK | 23.36 | 23.32 | 23.64 |
| 10 | 1 | 25 | | 23.32 | 23.24 | 23.65 |
| 10 | 1 | 49 | | 23.33 | 23.21 | 23.61 |
| 10 | 25 | 0 | | 22.40 | 22.33 | 22.61 |
| 10 | 25 | 12 | | 22.41 | 22.33 | 22.71 |
| 10 | 25 | 25 | | 22.39 | 22.26 | 22.65 |
| 10 | 50 | 0 | | 22.37 | 22.34 | 22.59 |
| 10 | 1 | 0 | 16-QAM | 22.84 | 22.72 | 22.98 |
| 10 | 1 | 25 | | 22.65 | 22.71 | 22.99 |
| 10 | 1 | 49 | | 22.70 | 22.52 | 22.96 |
| 10 | 25 | 0 | | 21.55 | 21.49 | 21.76 |
| 10 | 25 | 12 | | 21.54 | 21.46 | 21.83 |
| 10 | 25 | 25 | | 21.48 | 21.41 | 21.76 |
| 10 | 50 | 0 | | 21.49 | 21.45 | 21.71 |
| 10 | 1 | 0 | 64-QAM | 21.63 | 21.65 | 21.84 |
| 10 | 1 | 25 | | 21.69 | 21.57 | 21.92 |
| 10 | 1 | 49 | | 21.52 | 21.48 | 21.92 |
| 10 | 25 | 0 | | 20.54 | 20.45 | 20.75 |
| 10 | 25 | 12 | | 20.48 | 20.48 | 20.80 |
| 10 | 25 | 25 | | 20.48 | 20.43 | 20.77 |
| 10 | 50 | 0 | | 20.49 | 20.48 | 20.71 |
| 5 | 1 | 0 | QPSK | 23.45 | 23.33 | 23.68 |
| 5 | 1 | 12 | | 23.41 | 23.30 | 23.62 |
| 5 | 1 | 24 | | 23.37 | 23.26 | 23.59 |
| 5 | 12 | 0 | | 22.45 | 22.36 | 22.69 |
| 5 | 12 | 7 | | 22.42 | 22.32 | 22.65 |
| 5 | 12 | 13 | | 22.41 | 22.33 | 22.63 |
| 5 | 25 | 0 | | 22.39 | 22.30 | 22.66 |
| 5 | 1 | 0 | 16-QAM | 22.70 | 22.73 | 22.78 |
| 5 | 1 | 12 | | 22.70 | 22.69 | 22.96 |
| 5 | 1 | 24 | | 22.65 | 22.55 | 22.96 |
| 5 | 12 | 0 | | 21.54 | 21.43 | 21.79 |
| 5 | 12 | 7 | | 21.54 | 21.44 | 21.79 |
| 5 | 12 | 13 | | 21.53 | 21.41 | 21.77 |
| 5 | 25 | 0 | | 21.50 | 21.42 | 21.78 |
| 5 | 1 | 0 | 64-QAM | 21.66 | 21.68 | 21.92 |
| 5 | 1 | 12 | | 21.72 | 21.53 | 21.92 |
| 5 | 1 | 24 | | 21.61 | 21.62 | 21.94 |
| 5 | 12 | 0 | | 20.56 | 20.47 | 20.79 |
| 5 | 12 | 7 | | 20.55 | 20.51 | 20.86 |
| 5 | 12 | 13 | | 20.56 | 20.47 | 20.80 |
| 5 | 25 | 0 | | 20.51 | 20.43 | 20.78 |



| LTE Band 2 Maximum Average Power [dBm] | | | | | | |
|--|---------|-----------|--------|--------|--------|---------|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 3 | 1 | 0 | QPSK | 23.37 | 23.29 | 23.65 |
| 3 | 1 | 8 | | 23.31 | 23.24 | 23.56 |
| 3 | 1 | 14 | | 23.33 | 23.22 | 23.54 |
| 3 | 8 | 0 | | 22.37 | 22.31 | 22.63 |
| 3 | 8 | 4 | | 22.43 | 22.33 | 22.64 |
| 3 | 8 | 7 | | 22.38 | 22.26 | 22.60 |
| 3 | 15 | 0 | | 22.35 | 22.25 | 22.59 |
| 3 | 1 | 0 | 16-QAM | 22.65 | 22.53 | 22.99 |
| 3 | 1 | 8 | | 22.62 | 22.69 | 22.72 |
| 3 | 1 | 14 | | 22.72 | 22.62 | 22.98 |
| 3 | 8 | 0 | | 21.53 | 21.45 | 21.77 |
| 3 | 8 | 4 | | 21.51 | 21.47 | 21.77 |
| 3 | 8 | 7 | | 21.51 | 21.45 | 21.75 |
| 3 | 15 | 0 | | 21.46 | 21.38 | 21.75 |
| 3 | 1 | 0 | 64-QAM | 21.58 | 21.56 | 21.91 |
| 3 | 1 | 8 | | 21.59 | 21.47 | 21.81 |
| 3 | 1 | 14 | | 21.66 | 21.54 | 21.78 |
| 3 | 8 | 0 | | 20.53 | 20.44 | 20.73 |
| 3 | 8 | 4 | | 20.54 | 20.43 | 20.78 |
| 3 | 8 | 7 | | 20.51 | 20.41 | 20.73 |
| 3 | 15 | 0 | | 20.45 | 20.38 | 20.74 |
| 1.4 | 1 | 0 | QPSK | 23.37 | 23.24 | 23.56 |
| 1.4 | 1 | 3 | | 23.38 | 23.32 | 23.62 |
| 1.4 | 1 | 5 | | 23.33 | 23.20 | 23.53 |
| 1.4 | 3 | 0 | | 23.38 | 23.27 | 23.65 |
| 1.4 | 3 | 1 | | 23.36 | 23.30 | 23.61 |
| 1.4 | 3 | 3 | | 23.36 | 23.27 | 23.61 |
| 1.4 | 6 | 0 | | 22.35 | 22.25 | 22.62 |
| 1.4 | 1 | 0 | 16-QAM | 22.62 | 22.62 | 22.88 |
| 1.4 | 1 | 3 | | 22.71 | 22.71 | 22.95 |
| 1.4 | 1 | 5 | | 22.66 | 22.61 | 22.91 |
| 1.4 | 3 | 0 | | 22.45 | 22.26 | 22.74 |
| 1.4 | 3 | 1 | | 22.46 | 22.42 | 22.74 |
| 1.4 | 3 | 3 | | 22.49 | 22.41 | 22.69 |
| 1.4 | 6 | 0 | | 21.55 | 21.44 | 21.83 |
| 1.4 | 1 | 0 | 64-QAM | 21.58 | 21.53 | 21.94 |
| 1.4 | 1 | 3 | | 21.68 | 21.61 | 21.93 |
| 1.4 | 1 | 5 | | 21.56 | 21.51 | 21.86 |
| 1.4 | 3 | 0 | | 21.57 | 21.51 | 21.82 |
| 1.4 | 3 | 1 | | 21.60 | 21.50 | 21.94 |
| 1.4 | 3 | 3 | | 21.59 | 21.50 | 21.80 |
| 1.4 | 6 | 0 | | 20.47 | 20.39 | 20.74 |



| LTE Band 25 Maximum Average Power [dBm] | | | | | | |
|---|---------|-----------|--------|--------|--------|---------|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 20 | 1 | 0 | QPSK | 23.42 | 23.39 | 23.61 |
| 20 | 1 | 49 | | 23.26 | 23.24 | 23.37 |
| 20 | 1 | 99 | | 23.22 | 23.10 | 23.43 |
| 20 | 50 | 0 | | 22.46 | 22.35 | 22.59 |
| 20 | 50 | 24 | | 22.42 | 22.33 | 22.46 |
| 20 | 50 | 50 | | 22.31 | 22.23 | 22.42 |
| 20 | 100 | 0 | | 22.40 | 22.34 | 22.51 |
| 20 | 1 | 0 | 16-QAM | 22.88 | 22.69 | 22.92 |
| 20 | 1 | 49 | | 22.59 | 22.70 | 22.74 |
| 20 | 1 | 99 | | 22.54 | 22.61 | 22.67 |
| 20 | 50 | 0 | | 21.57 | 21.53 | 21.66 |
| 20 | 50 | 24 | | 21.47 | 21.45 | 21.62 |
| 20 | 50 | 50 | | 21.42 | 21.42 | 21.48 |
| 20 | 100 | 0 | | 21.49 | 21.43 | 21.57 |
| 20 | 1 | 0 | 64-QAM | 21.66 | 21.63 | 21.88 |
| 20 | 1 | 49 | | 21.53 | 21.48 | 21.63 |
| 20 | 1 | 99 | | 21.39 | 21.54 | 21.69 |
| 20 | 50 | 0 | | 20.56 | 20.52 | 20.69 |
| 20 | 50 | 24 | | 20.50 | 20.48 | 20.62 |
| 20 | 50 | 50 | | 20.43 | 20.41 | 20.55 |
| 20 | 100 | 0 | | 20.48 | 20.43 | 20.58 |
| 15 | 1 | 0 | QPSK | 23.44 | 23.31 | 23.56 |
| 15 | 1 | 37 | | 23.31 | 23.21 | 23.33 |
| 15 | 1 | 74 | | 23.22 | 23.19 | 23.50 |
| 15 | 36 | 0 | | 22.42 | 22.37 | 22.49 |
| 15 | 36 | 20 | | 22.41 | 22.31 | 22.45 |
| 15 | 36 | 39 | | 22.34 | 22.28 | 22.46 |
| 15 | 75 | 0 | | 22.37 | 22.33 | 22.50 |
| 15 | 1 | 0 | 16-QAM | 22.79 | 22.69 | 22.85 |
| 15 | 1 | 37 | | 22.71 | 22.52 | 22.80 |
| 15 | 1 | 74 | | 22.47 | 22.62 | 22.75 |
| 15 | 36 | 0 | | 21.50 | 21.43 | 21.64 |
| 15 | 36 | 20 | | 21.52 | 21.49 | 21.56 |
| 15 | 36 | 39 | | 21.41 | 21.35 | 21.47 |
| 15 | 75 | 0 | | 21.47 | 21.41 | 21.55 |
| 15 | 1 | 0 | 64-QAM | 21.69 | 21.55 | 21.90 |
| 15 | 1 | 37 | | 21.52 | 21.50 | 21.65 |
| 15 | 1 | 74 | | 21.44 | 21.57 | 21.76 |
| 15 | 36 | 0 | | 20.57 | 20.46 | 20.66 |
| 15 | 36 | 20 | | 20.54 | 20.47 | 20.60 |
| 15 | 36 | 39 | | 20.48 | 20.40 | 20.53 |
| 15 | 75 | 0 | | 20.50 | 20.43 | 20.56 |



| LTE Band 25 Maximum Average Power [dBm] | | | | | | |
|---|---------|-----------|--------|--------|--------|---------|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 10 | 1 | 0 | QPSK | 23.43 | 23.26 | 23.39 |
| 10 | 1 | 25 | | 23.30 | 23.23 | 23.40 |
| 10 | 1 | 49 | | 23.26 | 23.18 | 23.39 |
| 10 | 25 | 0 | | 22.39 | 22.33 | 22.38 |
| 10 | 25 | 12 | | 22.40 | 22.35 | 22.32 |
| 10 | 25 | 25 | | 22.35 | 22.29 | 22.39 |
| 10 | 50 | 0 | | 22.38 | 22.30 | 22.36 |
| 10 | 1 | 0 | 16-QAM | 22.71 | 22.46 | 22.64 |
| 10 | 1 | 25 | | 22.64 | 22.48 | 22.79 |
| 10 | 1 | 49 | | 22.62 | 22.53 | 22.69 |
| 10 | 25 | 0 | | 21.52 | 21.44 | 21.52 |
| 10 | 25 | 12 | | 21.51 | 21.44 | 21.46 |
| 10 | 25 | 25 | | 21.44 | 21.38 | 21.49 |
| 10 | 50 | 0 | | 21.49 | 21.41 | 21.43 |
| 10 | 1 | 0 | 64-QAM | 21.70 | 21.50 | 21.63 |
| 10 | 1 | 25 | | 21.58 | 21.55 | 21.58 |
| 10 | 1 | 49 | | 21.45 | 21.50 | 21.62 |
| 10 | 25 | 0 | | 20.49 | 20.43 | 20.47 |
| 10 | 25 | 12 | | 20.51 | 20.45 | 20.49 |
| 10 | 25 | 25 | | 20.44 | 20.41 | 20.53 |
| 10 | 50 | 0 | | 20.54 | 20.39 | 20.48 |
| 5 | 1 | 0 | QPSK | 23.38 | 23.23 | 23.39 |
| 5 | 1 | 12 | | 23.33 | 23.24 | 23.40 |
| 5 | 1 | 24 | | 23.30 | 23.24 | 23.42 |
| 5 | 12 | 0 | | 22.43 | 22.33 | 22.45 |
| 5 | 12 | 7 | | 22.43 | 22.31 | 22.41 |
| 5 | 12 | 13 | | 22.39 | 22.33 | 22.38 |
| 5 | 25 | 0 | | 22.38 | 22.28 | 22.42 |
| 5 | 1 | 0 | 16-QAM | 22.81 | 22.51 | 22.83 |
| 5 | 1 | 12 | | 22.61 | 22.50 | 22.74 |
| 5 | 1 | 24 | | 22.56 | 22.52 | 22.69 |
| 5 | 12 | 0 | | 21.51 | 21.40 | 21.53 |
| 5 | 12 | 7 | | 21.50 | 21.47 | 21.56 |
| 5 | 12 | 13 | | 21.50 | 21.36 | 21.48 |
| 5 | 25 | 0 | | 21.50 | 21.36 | 21.52 |
| 5 | 1 | 0 | 64-QAM | 21.67 | 21.49 | 21.66 |
| 5 | 1 | 12 | | 21.55 | 21.54 | 21.65 |
| 5 | 1 | 24 | | 21.63 | 21.57 | 21.63 |
| 5 | 12 | 0 | | 20.57 | 20.51 | 20.58 |
| 5 | 12 | 7 | | 20.53 | 20.48 | 20.58 |
| 5 | 12 | 13 | | 20.54 | 20.43 | 20.50 |
| 5 | 25 | 0 | | 20.49 | 20.39 | 20.49 |



| LTE Band 25 Maximum Average Power [dBm] | | | | | | |
|---|---------|-----------|--------|--------|--------|---------|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 3 | 1 | 0 | QPSK | 23.33 | 23.14 | 23.34 |
| 3 | 1 | 8 | | 23.28 | 23.19 | 23.38 |
| 3 | 1 | 14 | | 23.26 | 23.20 | 23.30 |
| 3 | 8 | 0 | | 22.37 | 22.28 | 22.36 |
| 3 | 8 | 4 | | 22.37 | 22.31 | 22.40 |
| 3 | 8 | 7 | | 22.36 | 22.28 | 22.35 |
| 3 | 15 | 0 | | 22.34 | 22.24 | 22.38 |
| 3 | 1 | 0 | 16-QAM | 22.67 | 22.49 | 22.67 |
| 3 | 1 | 8 | | 22.61 | 22.45 | 22.67 |
| 3 | 1 | 14 | | 22.51 | 22.53 | 22.56 |
| 3 | 8 | 0 | | 21.48 | 21.39 | 21.54 |
| 3 | 8 | 4 | | 21.54 | 21.43 | 21.54 |
| 3 | 8 | 7 | | 21.47 | 21.38 | 21.47 |
| 3 | 15 | 0 | | 21.46 | 21.32 | 21.46 |
| 3 | 1 | 0 | 64-QAM | 21.64 | 21.31 | 21.62 |
| 3 | 1 | 8 | | 21.55 | 21.44 | 21.60 |
| 3 | 1 | 14 | | 21.59 | 21.47 | 21.62 |
| 3 | 8 | 0 | | 20.47 | 20.40 | 20.53 |
| 3 | 8 | 4 | | 20.54 | 20.43 | 20.56 |
| 3 | 8 | 7 | | 20.50 | 20.44 | 20.47 |
| 3 | 15 | 0 | | 20.43 | 20.33 | 20.49 |
| 1.4 | 1 | 0 | QPSK | 23.24 | 23.27 | 23.35 |
| 1.4 | 1 | 3 | | 23.30 | 23.21 | 23.23 |
| 1.4 | 1 | 5 | | 23.24 | 23.15 | 23.08 |
| 1.4 | 3 | 0 | | 23.34 | 23.25 | 23.32 |
| 1.4 | 3 | 1 | | 23.35 | 23.27 | 23.32 |
| 1.4 | 3 | 3 | | 23.35 | 23.22 | 23.34 |
| 1.4 | 6 | 0 | | 22.39 | 22.18 | 22.28 |
| 1.4 | 1 | 0 | 16-QAM | 22.75 | 22.61 | 22.60 |
| 1.4 | 1 | 3 | | 22.72 | 22.65 | 22.67 |
| 1.4 | 1 | 5 | | 22.62 | 22.57 | 22.48 |
| 1.4 | 3 | 0 | | 22.46 | 22.35 | 22.28 |
| 1.4 | 3 | 1 | | 22.48 | 22.42 | 22.35 |
| 1.4 | 3 | 3 | | 22.39 | 22.28 | 22.38 |
| 1.4 | 6 | 0 | | 21.54 | 21.34 | 21.46 |
| 1.4 | 1 | 0 | 64-QAM | 21.57 | 21.48 | 21.55 |
| 1.4 | 1 | 3 | | 21.66 | 21.56 | 21.62 |
| 1.4 | 1 | 5 | | 21.62 | 21.41 | 21.47 |
| 1.4 | 3 | 0 | | 21.61 | 21.51 | 21.49 |
| 1.4 | 3 | 1 | | 21.61 | 21.59 | 21.44 |
| 1.4 | 3 | 3 | | 21.50 | 21.47 | 21.52 |
| 1.4 | 6 | 0 | | 20.47 | 20.26 | 20.39 |



| LTE Band 4 Maximum Average Power [dBm] | | | | | | |
|--|---------|-----------|--------|--------------|--------|---------|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 20 | 1 | 0 | QPSK | 23.32 | 23.17 | 23.24 |
| 20 | 1 | 49 | | 23.11 | 23.02 | 23.16 |
| 20 | 1 | 99 | | 23.15 | 23.00 | 23.10 |
| 20 | 50 | 0 | | 22.29 | 22.13 | 22.24 |
| 20 | 50 | 24 | | 22.25 | 22.11 | 22.15 |
| 20 | 50 | 50 | | 22.19 | 22.02 | 22.18 |
| 20 | 100 | 0 | | 22.24 | 22.08 | 22.16 |
| 20 | 1 | 0 | 16-QAM | 22.70 | 22.57 | 22.56 |
| 20 | 1 | 49 | | 22.50 | 22.40 | 22.48 |
| 20 | 1 | 99 | | 22.55 | 22.42 | 22.50 |
| 20 | 50 | 0 | | 21.40 | 21.23 | 21.31 |
| 20 | 50 | 24 | | 21.31 | 21.15 | 21.26 |
| 20 | 50 | 50 | | 21.31 | 21.15 | 21.30 |
| 20 | 100 | 0 | | 21.28 | 21.13 | 21.23 |
| 20 | 1 | 0 | 64-QAM | 21.65 | 21.47 | 21.58 |
| 20 | 1 | 49 | | 21.36 | 21.25 | 21.42 |
| 20 | 1 | 99 | | 21.40 | 21.35 | 21.43 |
| 20 | 50 | 0 | | 20.36 | 20.23 | 20.36 |
| 20 | 50 | 24 | | 20.36 | 20.19 | 20.21 |
| 20 | 50 | 50 | | 20.31 | 20.18 | 20.27 |
| 20 | 100 | 0 | | 20.32 | 20.17 | 20.22 |
| 15 | 1 | 0 | QPSK | 23.08 | 22.96 | 22.97 |
| 15 | 1 | 37 | | 22.89 | 22.81 | 22.85 |
| 15 | 1 | 74 | | 22.92 | 22.76 | 22.86 |
| 15 | 36 | 0 | | 22.04 | 21.90 | 21.89 |
| 15 | 36 | 20 | | 21.95 | 21.87 | 21.94 |
| 15 | 36 | 39 | | 21.92 | 21.78 | 21.89 |
| 15 | 75 | 0 | | 21.97 | 21.83 | 21.86 |
| 15 | 1 | 0 | 16-QAM | 22.46 | 22.26 | 22.33 |
| 15 | 1 | 37 | | 22.23 | 22.14 | 22.27 |
| 15 | 1 | 74 | | 22.31 | 22.06 | 22.27 |
| 15 | 36 | 0 | | 21.12 | 20.99 | 21.00 |
| 15 | 36 | 20 | | 21.05 | 20.93 | 21.03 |
| 15 | 36 | 39 | | 21.01 | 20.86 | 20.99 |
| 15 | 75 | 0 | | 21.08 | 20.91 | 20.94 |
| 15 | 1 | 0 | 64-QAM | 21.60 | 21.52 | 21.58 |
| 15 | 1 | 37 | | 21.47 | 21.42 | 21.55 |
| 15 | 1 | 74 | | 21.51 | 21.40 | 21.53 |
| 15 | 36 | 0 | | 20.50 | 20.37 | 20.38 |
| 15 | 36 | 20 | | 20.45 | 20.33 | 20.44 |
| 15 | 36 | 39 | | 20.25 | 20.28 | 20.41 |
| 15 | 75 | 0 | | 20.22 | 20.33 | 20.34 |



| LTE Band 4 Maximum Average Power [dBm] | | | | | | |
|--|---------|-----------|--------|--------|--------|---------|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 10 | 1 | 0 | QPSK | 22.99 | 22.83 | 22.92 |
| 10 | 1 | 25 | | 22.92 | 22.74 | 22.84 |
| 10 | 1 | 49 | | 22.86 | 22.71 | 22.81 |
| 10 | 25 | 0 | | 21.99 | 21.81 | 21.95 |
| 10 | 25 | 12 | | 21.97 | 21.79 | 21.90 |
| 10 | 25 | 25 | | 21.94 | 21.74 | 21.91 |
| 10 | 50 | 0 | | 21.96 | 21.79 | 21.95 |
| 10 | 1 | 0 | 16-QAM | 22.38 | 22.22 | 22.29 |
| 10 | 1 | 25 | | 22.26 | 22.13 | 22.21 |
| 10 | 1 | 49 | | 22.24 | 22.10 | 22.14 |
| 10 | 25 | 0 | | 21.11 | 20.92 | 21.05 |
| 10 | 25 | 12 | | 21.09 | 20.91 | 21.03 |
| 10 | 25 | 25 | | 21.05 | 20.83 | 21.03 |
| 10 | 50 | 0 | | 21.06 | 20.87 | 21.05 |
| 10 | 1 | 0 | 64-QAM | 21.58 | 21.43 | 21.53 |
| 10 | 1 | 25 | | 21.54 | 21.34 | 21.52 |
| 10 | 1 | 49 | | 21.53 | 21.37 | 21.44 |
| 10 | 25 | 0 | | 20.49 | 20.32 | 20.49 |
| 10 | 25 | 12 | | 20.49 | 20.28 | 20.47 |
| 10 | 25 | 25 | | 20.44 | 20.24 | 20.43 |
| 10 | 50 | 0 | | 20.44 | 20.28 | 20.44 |
| 5 | 1 | 0 | QPSK | 22.99 | 22.80 | 22.92 |
| 5 | 1 | 12 | | 22.93 | 22.73 | 22.83 |
| 5 | 1 | 24 | | 22.92 | 22.75 | 22.87 |
| 5 | 12 | 0 | | 22.01 | 21.80 | 21.90 |
| 5 | 12 | 7 | | 21.99 | 21.80 | 21.92 |
| 5 | 12 | 13 | | 21.94 | 21.78 | 21.87 |
| 5 | 25 | 0 | | 21.96 | 21.77 | 21.89 |
| 5 | 1 | 0 | 16-QAM | 22.35 | 22.16 | 22.30 |
| 5 | 1 | 12 | | 22.36 | 22.04 | 22.23 |
| 5 | 1 | 24 | | 22.24 | 22.08 | 22.23 |
| 5 | 12 | 0 | | 21.06 | 20.89 | 21.04 |
| 5 | 12 | 7 | | 21.10 | 20.92 | 21.02 |
| 5 | 12 | 13 | | 21.05 | 20.84 | 21.00 |
| 5 | 25 | 0 | | 21.05 | 20.87 | 21.00 |
| 5 | 1 | 0 | 64-QAM | 21.27 | 21.07 | 21.22 |
| 5 | 1 | 12 | | 21.19 | 20.98 | 21.17 |
| 5 | 1 | 24 | | 21.17 | 21.01 | 21.14 |
| 5 | 12 | 0 | | 20.12 | 19.92 | 20.07 |
| 5 | 12 | 7 | | 20.14 | 19.90 | 20.06 |
| 5 | 12 | 13 | | 20.09 | 19.90 | 20.01 |
| 5 | 25 | 0 | | 20.03 | 19.85 | 19.98 |



| LTE Band 4 Maximum Average Power [dBm] | | | | | | |
|--|---------|-----------|--------|--------|--------|---------|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 3 | 1 | 0 | QPSK | 22.92 | 22.77 | 22.86 |
| 3 | 1 | 8 | | 22.90 | 22.71 | 22.86 |
| 3 | 1 | 14 | | 22.88 | 22.74 | 22.83 |
| 3 | 8 | 0 | | 21.95 | 21.75 | 21.88 |
| 3 | 8 | 4 | | 21.97 | 21.78 | 21.88 |
| 3 | 8 | 7 | | 21.92 | 21.75 | 21.83 |
| 3 | 15 | 0 | | 21.93 | 21.76 | 21.86 |
| 3 | 1 | 0 | 16-QAM | 22.28 | 22.09 | 22.20 |
| 3 | 1 | 8 | | 22.28 | 22.06 | 22.25 |
| 3 | 1 | 14 | | 22.24 | 22.03 | 22.16 |
| 3 | 8 | 0 | | 21.07 | 20.87 | 21.02 |
| 3 | 8 | 4 | | 21.13 | 20.92 | 21.06 |
| 3 | 8 | 7 | | 21.08 | 20.89 | 21.00 |
| 3 | 15 | 0 | | 21.05 | 20.86 | 20.98 |
| 3 | 1 | 0 | 64-QAM | 21.17 | 21.05 | 21.16 |
| 3 | 1 | 8 | | 21.13 | 20.93 | 21.16 |
| 3 | 1 | 14 | | 21.08 | 20.94 | 21.07 |
| 3 | 8 | 0 | | 20.05 | 19.92 | 20.05 |
| 3 | 8 | 4 | | 20.07 | 19.86 | 19.97 |
| 3 | 8 | 7 | | 20.01 | 19.83 | 19.93 |
| 3 | 15 | 0 | | 19.94 | 19.79 | 19.95 |
| 1.4 | 1 | 0 | QPSK | 22.87 | 22.67 | 22.75 |
| 1.4 | 1 | 3 | | 22.93 | 22.74 | 22.81 |
| 1.4 | 1 | 5 | | 22.85 | 22.63 | 22.75 |
| 1.4 | 3 | 0 | | 22.86 | 22.71 | 22.78 |
| 1.4 | 3 | 1 | | 22.93 | 22.74 | 22.82 |
| 1.4 | 3 | 3 | | 22.87 | 22.68 | 22.78 |
| 1.4 | 6 | 0 | | 21.85 | 21.69 | 21.77 |
| 1.4 | 1 | 0 | 16-QAM | 22.17 | 21.99 | 22.08 |
| 1.4 | 1 | 3 | | 22.22 | 22.04 | 22.23 |
| 1.4 | 1 | 5 | | 22.18 | 21.97 | 22.12 |
| 1.4 | 3 | 0 | | 22.04 | 21.79 | 21.91 |
| 1.4 | 3 | 1 | | 22.03 | 21.81 | 21.91 |
| 1.4 | 3 | 3 | | 21.94 | 21.77 | 21.85 |
| 1.4 | 6 | 0 | | 21.07 | 20.85 | 20.94 |
| 1.4 | 1 | 0 | 64-QAM | 21.46 | 21.30 | 21.40 |
| 1.4 | 1 | 3 | | 21.54 | 21.38 | 21.46 |
| 1.4 | 1 | 5 | | 21.46 | 21.23 | 21.39 |
| 1.4 | 3 | 0 | | 21.41 | 21.19 | 21.37 |
| 1.4 | 3 | 1 | | 21.48 | 21.25 | 21.36 |
| 1.4 | 3 | 3 | | 21.41 | 21.23 | 21.33 |
| 1.4 | 6 | 0 | | 20.37 | 20.19 | 20.25 |



| LTE Band 5 Maximum Average Power [dBm] | | | | | | |
|--|---------|-----------|--------|--------|--------|---------|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 10 | 1 | 0 | QPSK | 23.90 | 23.79 | 23.91 |
| 10 | 1 | 25 | | 23.82 | 23.73 | 23.86 |
| 10 | 1 | 49 | | 23.84 | 23.70 | 23.79 |
| 10 | 25 | 0 | | 22.91 | 22.83 | 22.82 |
| 10 | 25 | 12 | | 22.92 | 22.80 | 22.89 |
| 10 | 25 | 25 | | 22.94 | 22.74 | 22.88 |
| 10 | 50 | 0 | | 22.85 | 22.82 | 22.82 |
| 10 | 1 | 0 | 16-QAM | 23.35 | 23.08 | 23.18 |
| 10 | 1 | 25 | | 23.12 | 23.08 | 23.19 |
| 10 | 1 | 49 | | 23.19 | 23.04 | 23.14 |
| 10 | 25 | 0 | | 22.04 | 21.96 | 21.92 |
| 10 | 25 | 12 | | 21.96 | 21.89 | 21.97 |
| 10 | 25 | 25 | | 22.05 | 21.84 | 21.97 |
| 10 | 50 | 0 | | 21.98 | 21.91 | 21.91 |
| 10 | 1 | 0 | 64-QAM | 22.13 | 22.03 | 22.08 |
| 10 | 1 | 25 | | 22.02 | 21.93 | 22.00 |
| 10 | 1 | 49 | | 22.12 | 21.94 | 22.06 |
| 10 | 25 | 0 | | 21.06 | 20.96 | 20.96 |
| 10 | 25 | 12 | | 20.98 | 20.92 | 21.00 |
| 10 | 25 | 25 | | 20.99 | 20.87 | 20.91 |
| 10 | 50 | 0 | | 21.00 | 20.88 | 20.91 |
| 5 | 1 | 0 | QPSK | 23.68 | 23.81 | 23.87 |
| 5 | 1 | 12 | | 23.66 | 23.71 | 23.75 |
| 5 | 1 | 24 | | 23.73 | 23.67 | 23.73 |
| 5 | 12 | 0 | | 22.63 | 22.79 | 22.86 |
| 5 | 12 | 7 | | 22.77 | 22.79 | 22.84 |
| 5 | 12 | 13 | | 22.78 | 22.69 | 22.81 |
| 5 | 25 | 0 | | 22.75 | 22.73 | 22.79 |
| 5 | 1 | 0 | 16-QAM | 23.11 | 23.03 | 23.04 |
| 5 | 1 | 12 | | 22.92 | 23.09 | 23.08 |
| 5 | 1 | 24 | | 22.95 | 22.86 | 23.00 |
| 5 | 12 | 0 | | 21.79 | 21.84 | 21.93 |
| 5 | 12 | 7 | | 21.93 | 21.84 | 21.93 |
| 5 | 12 | 13 | | 21.84 | 21.80 | 21.84 |
| 5 | 25 | 0 | | 21.84 | 21.86 | 21.90 |
| 5 | 1 | 0 | 64-QAM | 22.03 | 22.02 | 22.06 |
| 5 | 1 | 12 | | 21.87 | 21.96 | 21.99 |
| 5 | 1 | 24 | | 21.85 | 21.94 | 21.98 |
| 5 | 12 | 0 | | 20.79 | 20.91 | 21.00 |
| 5 | 12 | 7 | | 20.97 | 20.93 | 21.00 |
| 5 | 12 | 13 | | 20.85 | 20.84 | 20.92 |
| 5 | 25 | 0 | | 20.87 | 20.89 | 20.93 |



| LTE Band 5 Maximum Average Power [dBm] | | | | | | |
|--|---------|-----------|--------|--------|--------|---------|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 3 | 1 | 0 | QPSK | 23.80 | 23.75 | 23.75 |
| 3 | 1 | 8 | | 23.77 | 23.70 | 23.74 |
| 3 | 1 | 14 | | 23.75 | 23.67 | 23.73 |
| 3 | 8 | 0 | | 22.82 | 22.73 | 22.78 |
| 3 | 8 | 4 | | 22.83 | 22.77 | 22.78 |
| 3 | 8 | 7 | | 22.76 | 22.67 | 22.77 |
| 3 | 15 | 0 | | 22.77 | 22.71 | 22.79 |
| 3 | 1 | 0 | 16-QAM | 23.14 | 22.98 | 23.12 |
| 3 | 1 | 8 | | 23.01 | 23.02 | 23.14 |
| 3 | 1 | 14 | | 23.06 | 23.03 | 23.05 |
| 3 | 8 | 0 | | 21.89 | 21.91 | 21.91 |
| 3 | 8 | 4 | | 21.98 | 21.88 | 21.95 |
| 3 | 8 | 7 | | 21.96 | 21.88 | 21.89 |
| 3 | 15 | 0 | | 21.88 | 21.85 | 21.86 |
| 3 | 1 | 0 | 64-QAM | 22.14 | 22.00 | 22.08 |
| 3 | 1 | 8 | | 22.07 | 21.93 | 21.92 |
| 3 | 1 | 14 | | 21.98 | 21.95 | 22.04 |
| 3 | 8 | 0 | | 20.92 | 20.83 | 20.90 |
| 3 | 8 | 4 | | 20.92 | 20.86 | 20.95 |
| 3 | 8 | 7 | | 20.94 | 20.84 | 20.90 |
| 3 | 15 | 0 | | 20.93 | 20.81 | 20.82 |
| 1.4 | 1 | 0 | QPSK | 23.64 | 23.30 | 23.12 |
| 1.4 | 1 | 3 | | 23.72 | 23.27 | 23.18 |
| 1.4 | 1 | 5 | | 23.64 | 23.26 | 23.11 |
| 1.4 | 3 | 0 | | 23.60 | 23.29 | 23.14 |
| 1.4 | 3 | 1 | | 23.71 | 23.31 | 23.14 |
| 1.4 | 3 | 3 | | 23.69 | 23.32 | 23.09 |
| 1.4 | 6 | 0 | | 22.69 | 22.29 | 22.11 |
| 1.4 | 1 | 0 | 16-QAM | 22.89 | 22.69 | 22.52 |
| 1.4 | 1 | 3 | | 23.10 | 22.54 | 22.42 |
| 1.4 | 1 | 5 | | 23.01 | 22.46 | 22.32 |
| 1.4 | 3 | 0 | | 22.79 | 22.37 | 22.26 |
| 1.4 | 3 | 1 | | 22.83 | 22.40 | 22.21 |
| 1.4 | 3 | 3 | | 22.79 | 22.26 | 22.17 |
| 1.4 | 6 | 0 | | 21.89 | 21.45 | 21.27 |
| 1.4 | 1 | 0 | 64-QAM | 21.89 | 21.59 | 21.32 |
| 1.4 | 1 | 3 | | 22.03 | 21.60 | 21.47 |
| 1.4 | 1 | 5 | | 21.87 | 21.50 | 21.33 |
| 1.4 | 3 | 0 | | 21.77 | 21.52 | 21.32 |
| 1.4 | 3 | 1 | | 21.96 | 21.51 | 21.45 |
| 1.4 | 3 | 3 | | 21.87 | 21.46 | 21.28 |
| 1.4 | 6 | 0 | | 20.78 | 20.38 | 20.20 |



| LTE Band 7 Maximum Average Power [dBm] | | | | | | |
|--|---------|-----------|--------|--------|--------|---------|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 20 | 1 | 0 | QPSK | 23.01 | 23.13 | 23.36 |
| 20 | 1 | 49 | | 23.06 | 23.05 | 23.09 |
| 20 | 1 | 99 | | 23.02 | 23.13 | 23.06 |
| 20 | 50 | 0 | | 22.01 | 22.13 | 22.24 |
| 20 | 50 | 24 | | 22.03 | 22.20 | 22.08 |
| 20 | 50 | 50 | | 22.02 | 22.10 | 22.10 |
| 20 | 100 | 0 | | 22.00 | 22.12 | 22.19 |
| 20 | 1 | 0 | 16-QAM | 22.37 | 22.53 | 22.75 |
| 20 | 1 | 49 | | 22.15 | 22.40 | 22.33 |
| 20 | 1 | 99 | | 22.25 | 22.50 | 22.34 |
| 20 | 50 | 0 | | 21.06 | 21.26 | 21.29 |
| 20 | 50 | 24 | | 21.10 | 21.30 | 21.19 |
| 20 | 50 | 50 | | 21.05 | 21.24 | 21.19 |
| 20 | 100 | 0 | | 21.09 | 21.28 | 21.21 |
| 20 | 1 | 0 | 64-QAM | 21.32 | 21.47 | 21.61 |
| 20 | 1 | 49 | | 21.00 | 21.25 | 21.28 |
| 20 | 1 | 99 | | 21.12 | 21.33 | 21.38 |
| 20 | 50 | 0 | | 20.04 | 20.26 | 20.32 |
| 20 | 50 | 24 | | 20.07 | 20.30 | 20.22 |
| 20 | 50 | 50 | | 20.02 | 20.21 | 20.17 |
| 20 | 100 | 0 | | 20.06 | 20.29 | 20.19 |
| 15 | 1 | 0 | QPSK | 22.64 | 22.80 | 22.87 |
| 15 | 1 | 37 | | 22.53 | 22.77 | 22.65 |
| 15 | 1 | 74 | | 22.58 | 22.67 | 22.62 |
| 15 | 36 | 0 | | 21.59 | 21.75 | 21.70 |
| 15 | 36 | 20 | | 21.56 | 21.81 | 21.60 |
| 15 | 36 | 39 | | 21.60 | 21.73 | 21.60 |
| 15 | 75 | 0 | | 21.65 | 21.80 | 21.70 |
| 15 | 1 | 0 | 16-QAM | 22.00 | 22.13 | 22.22 |
| 15 | 1 | 37 | | 21.79 | 22.08 | 22.00 |
| 15 | 1 | 74 | | 21.94 | 22.00 | 21.96 |
| 15 | 36 | 0 | | 20.67 | 20.82 | 20.79 |
| 15 | 36 | 20 | | 20.64 | 20.90 | 20.75 |
| 15 | 36 | 39 | | 20.69 | 20.80 | 20.67 |
| 15 | 75 | 0 | | 20.74 | 20.86 | 20.81 |
| 15 | 1 | 0 | 64-QAM | 20.88 | 21.08 | 21.15 |
| 15 | 1 | 37 | | 20.75 | 21.06 | 20.93 |
| 15 | 1 | 74 | | 20.82 | 20.94 | 20.89 |
| 15 | 36 | 0 | | 19.70 | 19.89 | 19.82 |
| 15 | 36 | 20 | | 19.65 | 19.93 | 19.76 |
| 15 | 36 | 39 | | 19.75 | 19.85 | 19.72 |
| 15 | 75 | 0 | | 19.75 | 19.91 | 19.82 |



| LTE Band 7 Maximum Average Power [dBm] | | | | | | |
|--|---------|-----------|--------|--------|--------|---------|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 10 | 1 | 0 | QPSK | 22.58 | 22.75 | 22.76 |
| 10 | 1 | 25 | | 22.54 | 22.78 | 22.85 |
| 10 | 1 | 49 | | 22.47 | 22.67 | 22.73 |
| 10 | 25 | 0 | | 21.56 | 21.71 | 21.73 |
| 10 | 25 | 12 | | 21.55 | 21.82 | 21.78 |
| 10 | 25 | 25 | | 21.50 | 21.73 | 21.86 |
| 10 | 50 | 0 | | 21.51 | 21.76 | 21.76 |
| 10 | 1 | 0 | 16-QAM | 21.94 | 22.12 | 22.08 |
| 10 | 1 | 25 | | 21.85 | 22.08 | 22.24 |
| 10 | 1 | 49 | | 21.73 | 22.04 | 22.12 |
| 10 | 25 | 0 | | 20.65 | 20.83 | 20.80 |
| 10 | 25 | 12 | | 20.64 | 20.93 | 20.89 |
| 10 | 25 | 25 | | 20.60 | 20.85 | 20.95 |
| 10 | 50 | 0 | | 20.63 | 20.85 | 20.86 |
| 10 | 1 | 0 | 64-QAM | 21.28 | 21.38 | 21.52 |
| 10 | 1 | 25 | | 20.97 | 21.24 | 21.28 |
| 10 | 1 | 49 | | 21.09 | 21.27 | 21.30 |
| 10 | 25 | 0 | | 19.96 | 20.16 | 20.22 |
| 10 | 25 | 12 | | 20.05 | 20.26 | 20.21 |
| 10 | 25 | 25 | | 20.01 | 20.11 | 20.15 |
| 10 | 50 | 0 | | 20.05 | 20.19 | 20.10 |
| 5 | 1 | 0 | QPSK | 22.55 | 22.67 | 22.86 |
| 5 | 1 | 12 | | 22.55 | 22.74 | 22.83 |
| 5 | 1 | 24 | | 22.49 | 22.73 | 22.72 |
| 5 | 12 | 0 | | 21.55 | 21.70 | 21.91 |
| 5 | 12 | 7 | | 21.56 | 21.81 | 21.88 |
| 5 | 12 | 13 | | 21.50 | 21.74 | 21.84 |
| 5 | 25 | 0 | | 21.51 | 21.78 | 21.89 |
| 5 | 1 | 0 | 16-QAM | 21.93 | 22.02 | 22.14 |
| 5 | 1 | 12 | | 21.80 | 22.17 | 22.21 |
| 5 | 1 | 24 | | 21.81 | 22.06 | 22.07 |
| 5 | 12 | 0 | | 20.65 | 20.79 | 21.00 |
| 5 | 12 | 7 | | 20.65 | 20.91 | 21.03 |
| 5 | 12 | 13 | | 20.64 | 20.84 | 20.94 |
| 5 | 25 | 0 | | 20.63 | 20.89 | 20.97 |
| 5 | 1 | 0 | 64-QAM | 21.26 | 21.41 | 21.54 |
| 5 | 1 | 12 | | 20.93 | 21.25 | 21.24 |
| 5 | 1 | 24 | | 21.03 | 21.25 | 21.37 |
| 5 | 12 | 0 | | 19.96 | 20.21 | 20.31 |
| 5 | 12 | 7 | | 20.05 | 20.23 | 20.15 |
| 5 | 12 | 13 | | 19.99 | 20.18 | 20.09 |
| 5 | 25 | 0 | | 19.97 | 20.23 | 20.12 |



| LTE Band 12 Maximum Average Power [dBm] | | | | | | |
|---|---------|-----------|--------|--------|--------|---------|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 10 | 1 | 0 | QPSK | 23.51 | 23.64 | 23.81 |
| 10 | 1 | 25 | | 23.52 | 23.53 | 23.69 |
| 10 | 1 | 49 | | 23.57 | 23.58 | 23.77 |
| 10 | 25 | 0 | | 22.55 | 22.63 | 22.64 |
| 10 | 25 | 12 | | 22.50 | 22.54 | 22.63 |
| 10 | 25 | 25 | | 22.58 | 22.62 | 22.61 |
| 10 | 50 | 0 | | 22.58 | 22.53 | 22.67 |
| 10 | 1 | 0 | 16-QAM | 22.70 | 22.77 | 22.99 |
| 10 | 1 | 25 | | 22.75 | 22.72 | 23.10 |
| 10 | 1 | 49 | | 22.81 | 22.93 | 22.97 |
| 10 | 25 | 0 | | 21.55 | 21.66 | 21.72 |
| 10 | 25 | 12 | | 21.54 | 21.60 | 21.75 |
| 10 | 25 | 25 | | 21.56 | 21.53 | 21.75 |
| 10 | 50 | 0 | | 21.59 | 21.55 | 21.75 |
| 10 | 1 | 0 | 64-QAM | 21.55 | 21.71 | 21.94 |
| 10 | 1 | 25 | | 21.75 | 21.82 | 21.94 |
| 10 | 1 | 49 | | 21.78 | 21.93 | 22.06 |
| 10 | 25 | 0 | | 20.50 | 20.62 | 20.71 |
| 10 | 25 | 12 | | 20.60 | 20.66 | 20.74 |
| 10 | 25 | 25 | | 20.66 | 20.55 | 20.76 |
| 10 | 50 | 0 | | 20.58 | 20.66 | 20.78 |
| 5 | 1 | 0 | QPSK | 23.33 | 23.46 | 23.68 |
| 5 | 1 | 12 | | 23.33 | 23.48 | 23.66 |
| 5 | 1 | 24 | | 23.46 | 23.54 | 23.71 |
| 5 | 12 | 0 | | 22.40 | 22.53 | 22.61 |
| 5 | 12 | 7 | | 22.36 | 22.48 | 22.57 |
| 5 | 12 | 13 | | 22.47 | 22.44 | 22.60 |
| 5 | 25 | 0 | | 22.37 | 22.46 | 22.59 |
| 5 | 1 | 0 | 16-QAM | 22.58 | 22.72 | 23.11 |
| 5 | 1 | 12 | | 22.54 | 22.85 | 23.00 |
| 5 | 1 | 24 | | 22.70 | 22.86 | 23.04 |
| 5 | 12 | 0 | | 21.48 | 21.58 | 21.75 |
| 5 | 12 | 7 | | 21.47 | 21.62 | 21.71 |
| 5 | 12 | 13 | | 21.54 | 21.54 | 21.71 |
| 5 | 25 | 0 | | 21.46 | 21.62 | 21.68 |
| 5 | 1 | 0 | 64-QAM | 21.49 | 21.69 | 21.88 |
| 5 | 1 | 12 | | 21.62 | 21.71 | 21.85 |
| 5 | 1 | 24 | | 21.67 | 21.78 | 21.98 |
| 5 | 12 | 0 | | 20.59 | 20.56 | 20.81 |
| 5 | 12 | 7 | | 20.52 | 20.65 | 20.74 |
| 5 | 12 | 13 | | 20.59 | 20.60 | 20.78 |
| 5 | 25 | 0 | | 20.49 | 20.60 | 20.73 |



| LTE Band 12 Maximum Average Power [dBm] | | | | | | |
|---|---------|-----------|--------|--------|--------|---------|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 3 | 1 | 0 | QPSK | 23.25 | 23.38 | 23.75 |
| 3 | 1 | 8 | | 23.33 | 23.44 | 23.70 |
| 3 | 1 | 14 | | 23.28 | 23.39 | 23.71 |
| 3 | 8 | 0 | | 22.39 | 22.49 | 22.75 |
| 3 | 8 | 4 | | 22.37 | 22.45 | 22.73 |
| 3 | 8 | 7 | | 22.32 | 22.41 | 22.71 |
| 3 | 15 | 0 | | 22.33 | 22.42 | 22.74 |
| 3 | 1 | 0 | 16-QAM | 22.46 | 22.69 | 23.05 |
| 3 | 1 | 8 | | 22.60 | 22.83 | 22.88 |
| 3 | 1 | 14 | | 22.54 | 22.77 | 23.02 |
| 3 | 8 | 0 | | 21.50 | 21.60 | 21.83 |
| 3 | 8 | 4 | | 21.53 | 21.54 | 21.85 |
| 3 | 8 | 7 | | 21.49 | 21.55 | 21.85 |
| 3 | 15 | 0 | | 21.45 | 21.54 | 21.83 |
| 3 | 1 | 0 | 64-QAM | 21.41 | 21.68 | 21.93 |
| 3 | 1 | 8 | | 21.57 | 21.71 | 21.86 |
| 3 | 1 | 14 | | 21.55 | 21.63 | 21.96 |
| 3 | 8 | 0 | | 20.52 | 20.61 | 20.83 |
| 3 | 8 | 4 | | 20.50 | 20.48 | 20.90 |
| 3 | 8 | 7 | | 20.49 | 20.53 | 20.81 |
| 3 | 15 | 0 | | 20.47 | 20.58 | 20.83 |
| 1.4 | 1 | 0 | QPSK | 23.22 | 23.44 | 23.66 |
| 1.4 | 1 | 3 | | 23.25 | 23.47 | 23.80 |
| 1.4 | 1 | 5 | | 23.13 | 23.40 | 23.73 |
| 1.4 | 3 | 0 | | 23.26 | 23.48 | 23.72 |
| 1.4 | 3 | 1 | | 23.24 | 23.49 | 23.79 |
| 1.4 | 3 | 3 | | 23.23 | 23.47 | 23.78 |
| 1.4 | 6 | 0 | | 22.23 | 22.42 | 22.70 |
| 1.4 | 1 | 0 | 16-QAM | 22.44 | 22.73 | 23.01 |
| 1.4 | 1 | 3 | | 22.61 | 22.89 | 23.14 |
| 1.4 | 1 | 5 | | 22.52 | 22.79 | 23.06 |
| 1.4 | 3 | 0 | | 22.32 | 22.68 | 22.75 |
| 1.4 | 3 | 1 | | 22.27 | 22.59 | 22.79 |
| 1.4 | 3 | 3 | | 22.29 | 22.48 | 22.79 |
| 1.4 | 6 | 0 | | 21.36 | 21.57 | 21.85 |
| 1.4 | 1 | 0 | 64-QAM | 21.45 | 21.72 | 21.99 |
| 1.4 | 1 | 3 | | 21.46 | 21.73 | 22.02 |
| 1.4 | 1 | 5 | | 21.36 | 21.66 | 21.96 |
| 1.4 | 3 | 0 | | 21.47 | 21.68 | 21.85 |
| 1.4 | 3 | 1 | | 21.50 | 21.71 | 21.99 |
| 1.4 | 3 | 3 | | 21.41 | 21.65 | 21.93 |
| 1.4 | 6 | 0 | | 20.39 | 20.51 | 20.80 |



| LTE Band 13 Maximum Average Power [dBm] | | | | | | |
|---|---------|-----------|--------|--------|--------------|---------|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 10 | 1 | 0 | QPSK | | 23.60 | |
| 10 | 1 | 25 | | | 23.41 | |
| 10 | 1 | 49 | | | 23.47 | |
| 10 | 25 | 0 | | | 22.52 | |
| 10 | 25 | 12 | | | 22.44 | |
| 10 | 25 | 25 | | | 22.41 | |
| 10 | 50 | 0 | | | 22.49 | |
| 10 | 1 | 0 | 16-QAM | - | 22.98 | - |
| 10 | 1 | 25 | | | 22.72 | |
| 10 | 1 | 49 | | | 22.85 | |
| 10 | 25 | 0 | | | 21.64 | |
| 10 | 25 | 12 | | | 21.61 | |
| 10 | 25 | 25 | | | 21.47 | |
| 10 | 50 | 0 | | | 21.59 | |
| 10 | 1 | 0 | 64-QAM | | 21.79 | |
| 10 | 1 | 25 | | | 21.70 | |
| 10 | 1 | 49 | | | 21.80 | |
| 10 | 25 | 0 | | | 20.67 | |
| 10 | 25 | 12 | | | 20.56 | |
| 10 | 25 | 25 | | | 20.46 | |
| 10 | 50 | 0 | | | 20.54 | |
| 5 | 1 | 0 | QPSK | 23.57 | 23.50 | 23.52 |
| 5 | 1 | 12 | | 23.53 | 23.34 | 23.58 |
| 5 | 1 | 24 | | 23.46 | 23.35 | 23.51 |
| 5 | 12 | 0 | | 22.61 | 22.44 | 22.52 |
| 5 | 12 | 7 | | 22.53 | 22.46 | 22.51 |
| 5 | 12 | 13 | | 22.49 | 22.39 | 22.54 |
| 5 | 25 | 0 | | 22.51 | 22.42 | 22.50 |
| 5 | 1 | 0 | 16-QAM | 22.91 | 22.79 | 22.94 |
| 5 | 1 | 12 | | 22.94 | 22.61 | 22.86 |
| 5 | 1 | 24 | | 22.90 | 22.68 | 22.83 |
| 5 | 12 | 0 | | 21.66 | 21.57 | 21.60 |
| 5 | 12 | 7 | | 21.69 | 21.49 | 21.59 |
| 5 | 12 | 13 | | 21.58 | 21.46 | 21.65 |
| 5 | 25 | 0 | | 21.67 | 21.53 | 21.56 |
| 5 | 1 | 0 | 64-QAM | 21.86 | 21.77 | 21.82 |
| 5 | 1 | 12 | | 21.77 | 21.71 | 21.82 |
| 5 | 1 | 24 | | 21.67 | 21.53 | 21.77 |
| 5 | 12 | 0 | | 20.71 | 20.59 | 20.63 |
| 5 | 12 | 7 | | 20.67 | 20.57 | 20.67 |
| 5 | 12 | 13 | | 20.69 | 20.49 | 20.66 |
| 5 | 25 | 0 | | 20.65 | 20.56 | 20.59 |



| LTE Band 17 Maximum Average Power [dBm] | | | | | | |
|---|---------|-----------|--------|--------|--------|---------|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 10 | 1 | 0 | QPSK | 23.58 | 23.59 | 23.55 |
| 10 | 1 | 25 | | 23.39 | 23.35 | 23.36 |
| 10 | 1 | 49 | | 23.28 | 23.30 | 23.29 |
| 10 | 25 | 0 | | 22.47 | 22.45 | 22.41 |
| 10 | 25 | 12 | | 22.43 | 22.42 | 22.43 |
| 10 | 25 | 25 | | 22.38 | 22.33 | 22.29 |
| 10 | 50 | 0 | | 22.44 | 22.41 | 22.35 |
| 10 | 1 | 0 | 16-QAM | 23.00 | 22.87 | 22.88 |
| 10 | 1 | 25 | | 22.65 | 22.75 | 22.68 |
| 10 | 1 | 49 | | 22.74 | 22.68 | 22.71 |
| 10 | 25 | 0 | | 21.57 | 21.58 | 21.57 |
| 10 | 25 | 12 | | 21.56 | 21.55 | 21.55 |
| 10 | 25 | 25 | | 21.45 | 21.42 | 21.37 |
| 10 | 50 | 0 | | 21.56 | 21.53 | 21.49 |
| 10 | 1 | 0 | 64-QAM | 21.89 | 21.82 | 21.75 |
| 10 | 1 | 25 | | 21.71 | 21.62 | 21.62 |
| 10 | 1 | 49 | | 21.60 | 21.53 | 21.49 |
| 10 | 25 | 0 | | 20.59 | 20.60 | 20.59 |
| 10 | 25 | 12 | | 20.60 | 20.55 | 20.49 |
| 10 | 25 | 25 | | 20.46 | 20.45 | 20.45 |
| 10 | 50 | 0 | | 20.51 | 20.49 | 20.46 |
| 5 | 1 | 0 | QPSK | 23.55 | 23.58 | 23.51 |
| 5 | 1 | 12 | | 23.55 | 23.47 | 23.44 |
| 5 | 1 | 24 | | 23.51 | 23.45 | 23.36 |
| 5 | 12 | 0 | | 22.59 | 22.56 | 22.48 |
| 5 | 12 | 7 | | 22.59 | 22.52 | 22.47 |
| 5 | 12 | 13 | | 22.52 | 22.47 | 22.40 |
| 5 | 25 | 0 | | 22.56 | 22.49 | 22.43 |
| 5 | 1 | 0 | 16-QAM | 22.89 | 22.89 | 22.87 |
| 5 | 1 | 12 | | 22.88 | 22.83 | 22.71 |
| 5 | 1 | 24 | | 22.80 | 22.79 | 22.70 |
| 5 | 12 | 0 | | 21.67 | 21.63 | 21.55 |
| 5 | 12 | 7 | | 21.70 | 21.61 | 21.57 |
| 5 | 12 | 13 | | 21.65 | 21.56 | 21.50 |
| 5 | 25 | 0 | | 21.68 | 21.59 | 21.49 |
| 5 | 1 | 0 | 64-QAM | 21.80 | 21.79 | 21.77 |
| 5 | 1 | 12 | | 21.79 | 21.75 | 21.66 |
| 5 | 1 | 24 | | 21.75 | 21.68 | 21.55 |
| 5 | 12 | 0 | | 20.64 | 20.62 | 20.54 |
| 5 | 12 | 7 | | 20.65 | 20.60 | 20.57 |
| 5 | 12 | 13 | | 20.59 | 20.56 | 20.46 |
| 5 | 25 | 0 | | 20.65 | 20.58 | 20.59 |



| LTE Band 26 Maximum Average Power [dBm] | | | | | | |
|---|---------|-----------|--------|--------|--------|--------------|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 15 | 1 | 0 | QPSK | 24.30 | 24.24 | 24.32 |
| 15 | 1 | 37 | | 23.73 | 23.73 | 23.75 |
| 15 | 1 | 74 | | 24.21 | 24.15 | 24.21 |
| 15 | 36 | 0 | | 23.01 | 22.95 | 22.89 |
| 15 | 36 | 20 | | 22.84 | 22.77 | 22.88 |
| 15 | 36 | 39 | | 22.97 | 22.79 | 22.83 |
| 15 | 75 | 0 | | 22.91 | 22.86 | 22.97 |
| 15 | 1 | 0 | 16-QAM | 23.47 | 23.44 | 23.50 |
| 15 | 1 | 37 | | 23.08 | 23.07 | 23.05 |
| 15 | 1 | 74 | | 23.48 | 23.45 | 23.50 |
| 15 | 36 | 0 | | 22.05 | 22.05 | 22.04 |
| 15 | 36 | 20 | | 21.90 | 21.84 | 21.96 |
| 15 | 36 | 39 | | 22.02 | 21.91 | 21.94 |
| 15 | 75 | 0 | | 21.97 | 21.96 | 22.04 |
| 15 | 1 | 0 | 64-QAM | 22.48 | 22.49 | 22.50 |
| 15 | 1 | 37 | | 21.90 | 21.90 | 22.06 |
| 15 | 1 | 74 | | 22.39 | 22.35 | 22.47 |
| 15 | 36 | 0 | | 21.13 | 21.08 | 21.06 |
| 15 | 36 | 20 | | 20.93 | 20.90 | 20.93 |
| 15 | 36 | 39 | | 21.05 | 20.96 | 21.00 |
| 15 | 75 | 0 | | 21.02 | 21.01 | 21.06 |
| 10 | 1 | 0 | QPSK | 23.85 | 23.70 | 23.82 |
| 10 | 1 | 25 | | 23.81 | 23.68 | 23.75 |
| 10 | 1 | 49 | | 23.79 | 23.71 | 23.74 |
| 10 | 25 | 0 | | 22.91 | 22.74 | 22.76 |
| 10 | 25 | 12 | | 22.84 | 22.73 | 22.73 |
| 10 | 25 | 25 | | 22.84 | 22.64 | 22.72 |
| 10 | 50 | 0 | | 22.86 | 22.70 | 22.70 |
| 10 | 1 | 0 | 16-QAM | 23.16 | 23.05 | 23.06 |
| 10 | 1 | 25 | | 23.17 | 22.96 | 23.08 |
| 10 | 1 | 49 | | 23.07 | 22.96 | 23.00 |
| 10 | 25 | 0 | | 22.00 | 21.83 | 21.87 |
| 10 | 25 | 12 | | 22.00 | 21.81 | 21.81 |
| 10 | 25 | 25 | | 21.89 | 21.69 | 21.80 |
| 10 | 50 | 0 | | 21.96 | 21.76 | 21.81 |
| 10 | 1 | 0 | 64-QAM | 22.18 | 21.93 | 22.06 |
| 10 | 1 | 25 | | 22.07 | 21.95 | 22.01 |
| 10 | 1 | 49 | | 22.03 | 21.97 | 21.94 |
| 10 | 25 | 0 | | 21.03 | 20.85 | 20.84 |
| 10 | 25 | 12 | | 21.00 | 20.80 | 20.80 |
| 10 | 25 | 25 | | 20.93 | 20.74 | 20.78 |
| 10 | 50 | 0 | | 20.93 | 20.81 | 20.78 |



| LTE Band 26 Maximum Average Power [dBm] | | | | | | |
|---|---------|-----------|--------|--------|--------|---------|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 5 | 1 | 0 | QPSK | 23.69 | 23.70 | 23.82 |
| 5 | 1 | 12 | | 23.62 | 23.63 | 23.72 |
| 5 | 1 | 24 | | 23.66 | 23.65 | 23.74 |
| 5 | 12 | 0 | | 22.66 | 22.73 | 22.78 |
| 5 | 12 | 7 | | 22.69 | 22.69 | 22.75 |
| 5 | 12 | 13 | | 22.73 | 22.65 | 22.71 |
| 5 | 25 | 0 | | 22.75 | 22.64 | 22.74 |
| 5 | 1 | 0 | 16-QAM | 22.99 | 23.02 | 23.04 |
| 5 | 1 | 12 | | 22.95 | 23.01 | 23.07 |
| 5 | 1 | 24 | | 23.01 | 22.93 | 23.06 |
| 5 | 12 | 0 | | 21.79 | 21.80 | 21.84 |
| 5 | 12 | 7 | | 21.74 | 21.80 | 21.82 |
| 5 | 12 | 13 | | 21.78 | 21.72 | 21.84 |
| 5 | 25 | 0 | | 21.83 | 21.75 | 21.85 |
| 5 | 1 | 0 | 64-QAM | 21.97 | 21.98 | 22.06 |
| 5 | 1 | 12 | | 21.86 | 21.84 | 21.99 |
| 5 | 1 | 24 | | 21.86 | 21.89 | 21.91 |
| 5 | 12 | 0 | | 20.82 | 20.84 | 20.88 |
| 5 | 12 | 7 | | 20.81 | 20.83 | 20.84 |
| 5 | 12 | 13 | | 20.89 | 20.79 | 20.82 |
| 5 | 25 | 0 | | 20.87 | 20.78 | 20.86 |
| 3 | 1 | 0 | QPSK | 23.78 | 23.70 | 23.78 |
| 3 | 1 | 8 | | 23.73 | 23.68 | 23.69 |
| 3 | 1 | 14 | | 23.71 | 23.61 | 23.69 |
| 3 | 8 | 0 | | 22.82 | 22.68 | 22.71 |
| 3 | 8 | 4 | | 22.78 | 22.63 | 22.75 |
| 3 | 8 | 7 | | 22.72 | 22.64 | 22.68 |
| 3 | 15 | 0 | | 22.75 | 22.66 | 22.68 |
| 3 | 1 | 0 | 16-QAM | 23.13 | 22.89 | 22.95 |
| 3 | 1 | 8 | | 22.95 | 22.93 | 23.02 |
| 3 | 1 | 14 | | 23.00 | 22.87 | 22.99 |
| 3 | 8 | 0 | | 21.89 | 21.81 | 21.84 |
| 3 | 8 | 4 | | 21.90 | 21.82 | 21.84 |
| 3 | 8 | 7 | | 21.83 | 21.81 | 21.84 |
| 3 | 15 | 0 | | 21.86 | 21.75 | 21.81 |
| 3 | 1 | 0 | 64-QAM | 22.02 | 21.90 | 21.99 |
| 3 | 1 | 8 | | 21.93 | 21.85 | 21.88 |
| 3 | 1 | 14 | | 21.91 | 21.86 | 21.95 |
| 3 | 8 | 0 | | 20.88 | 20.80 | 20.81 |
| 3 | 8 | 4 | | 20.92 | 20.79 | 20.86 |
| 3 | 8 | 7 | | 20.88 | 20.77 | 20.82 |
| 3 | 15 | 0 | | 20.84 | 20.74 | 20.80 |



| LTE Band 26 Maximum Average Power [dBm] | | | | | | |
|---|---------|-----------|--------|--------|--------|---------|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 1.4 | 1 | 0 | QPSK | 23.63 | 23.58 | 23.65 |
| 1.4 | 1 | 3 | | 23.75 | 23.65 | 23.68 |
| 1.4 | 1 | 5 | | 23.66 | 23.56 | 23.58 |
| 1.4 | 3 | 0 | | 23.73 | 23.64 | 23.66 |
| 1.4 | 3 | 1 | | 23.74 | 23.66 | 23.68 |
| 1.4 | 3 | 3 | | 23.71 | 23.60 | 23.64 |
| 1.4 | 6 | 0 | | 22.71 | 22.56 | 22.61 |
| 1.4 | 1 | 0 | 16-QAM | 23.09 | 22.92 | 22.94 |
| 1.4 | 1 | 3 | | 23.09 | 23.03 | 23.04 |
| 1.4 | 1 | 5 | | 22.93 | 22.95 | 22.86 |
| 1.4 | 3 | 0 | | 22.78 | 22.70 | 22.68 |
| 1.4 | 3 | 1 | | 22.88 | 22.76 | 22.75 |
| 1.4 | 3 | 3 | | 22.77 | 22.66 | 22.78 |
| 1.4 | 6 | 0 | | 21.88 | 21.70 | 21.78 |
| 1.4 | 1 | 0 | 64-QAM | 21.92 | 21.84 | 21.88 |
| 1.4 | 1 | 3 | | 22.00 | 21.89 | 21.94 |
| 1.4 | 1 | 5 | | 21.92 | 21.78 | 21.84 |
| 1.4 | 3 | 0 | | 21.92 | 21.82 | 21.84 |
| 1.4 | 3 | 1 | | 21.98 | 21.89 | 21.82 |
| 1.4 | 3 | 3 | | 21.89 | 21.80 | 21.91 |
| 1.4 | 6 | 0 | | 20.82 | 20.65 | 20.70 |



| LTE Band 38 Maximum Average Power [dBm] | | | | | | |
|---|---------|-----------|--------|--------|--------|---------|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 20 | 1 | 0 | QPSK | 23.37 | 23.10 | 23.31 |
| 20 | 1 | 49 | | 23.08 | 22.99 | 23.09 |
| 20 | 1 | 99 | | 22.98 | 22.90 | 22.97 |
| 20 | 50 | 0 | | 22.28 | 22.15 | 22.15 |
| 20 | 50 | 24 | | 22.17 | 22.10 | 22.08 |
| 20 | 50 | 50 | | 22.06 | 22.02 | 22.09 |
| 20 | 100 | 0 | | 22.15 | 22.04 | 22.06 |
| 20 | 1 | 0 | 16-QAM | 22.57 | 22.41 | 22.40 |
| 20 | 1 | 49 | | 22.24 | 22.15 | 22.22 |
| 20 | 1 | 99 | | 22.09 | 22.06 | 22.15 |
| 20 | 50 | 0 | | 21.39 | 21.26 | 21.26 |
| 20 | 50 | 24 | | 21.28 | 21.18 | 21.19 |
| 20 | 50 | 50 | | 21.15 | 21.13 | 21.17 |
| 20 | 100 | 0 | | 21.26 | 21.19 | 21.15 |
| 20 | 1 | 0 | 64-QAM | 21.17 | 21.03 | 20.99 |
| 20 | 1 | 49 | | 20.86 | 20.75 | 20.84 |
| 20 | 1 | 99 | | 20.71 | 20.62 | 20.73 |
| 20 | 50 | 0 | | 20.40 | 20.30 | 20.22 |
| 20 | 50 | 24 | | 20.27 | 20.18 | 20.18 |
| 20 | 50 | 50 | | 20.18 | 20.10 | 20.18 |
| 20 | 100 | 0 | | 20.27 | 20.17 | 20.19 |
| 15 | 1 | 0 | QPSK | 23.32 | 23.10 | 23.07 |
| 15 | 1 | 37 | | 23.05 | 23.01 | 23.01 |
| 15 | 1 | 74 | | 23.01 | 23.02 | 23.01 |
| 15 | 36 | 0 | | 22.22 | 22.04 | 22.02 |
| 15 | 36 | 20 | | 22.12 | 22.03 | 22.01 |
| 15 | 36 | 39 | | 22.00 | 22.01 | 22.00 |
| 15 | 75 | 0 | | 22.11 | 22.02 | 22.02 |
| 15 | 1 | 0 | 16-QAM | 22.46 | 22.23 | 22.20 |
| 15 | 1 | 37 | | 22.23 | 22.04 | 22.09 |
| 15 | 1 | 74 | | 22.14 | 22.00 | 22.02 |
| 15 | 36 | 0 | | 21.28 | 21.07 | 21.05 |
| 15 | 36 | 20 | | 21.20 | 21.02 | 21.03 |
| 15 | 36 | 39 | | 21.07 | 20.91 | 20.97 |
| 15 | 75 | 0 | | 21.23 | 21.04 | 21.00 |
| 15 | 1 | 0 | 64-QAM | 21.09 | 20.84 | 20.79 |
| 15 | 1 | 37 | | 20.81 | 20.62 | 20.69 |
| 15 | 1 | 74 | | 20.73 | 20.60 | 20.65 |
| 15 | 36 | 0 | | 20.29 | 20.12 | 20.05 |
| 15 | 36 | 20 | | 20.21 | 20.05 | 20.06 |
| 15 | 36 | 39 | | 20.13 | 19.93 | 20.00 |
| 15 | 75 | 0 | | 20.21 | 20.02 | 20.03 |



| LTE Band 38 Maximum Average Power [dBm] | | | | | | |
|---|---------|-----------|--------|--------|--------|---------|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 10 | 1 | 0 | QPSK | 23.21 | 22.92 | 22.93 |
| 10 | 1 | 25 | | 23.08 | 22.84 | 22.93 |
| 10 | 1 | 49 | | 22.96 | 22.81 | 22.83 |
| 10 | 25 | 0 | | 22.08 | 21.94 | 21.98 |
| 10 | 25 | 12 | | 22.15 | 21.96 | 21.99 |
| 10 | 25 | 25 | | 22.11 | 21.88 | 21.94 |
| 10 | 50 | 0 | | 22.07 | 21.83 | 21.87 |
| 10 | 1 | 0 | 16-QAM | 22.30 | 22.07 | 22.07 |
| 10 | 1 | 25 | | 22.25 | 22.03 | 22.05 |
| 10 | 1 | 49 | | 22.26 | 21.98 | 22.00 |
| 10 | 25 | 0 | | 21.16 | 20.92 | 21.05 |
| 10 | 25 | 12 | | 21.13 | 21.00 | 20.98 |
| 10 | 25 | 25 | | 21.12 | 20.91 | 20.87 |
| 10 | 50 | 0 | | 21.17 | 20.95 | 21.06 |
| 10 | 1 | 0 | 64-QAM | 20.87 | 20.69 | 20.73 |
| 10 | 1 | 25 | | 20.89 | 20.58 | 20.64 |
| 10 | 1 | 49 | | 20.82 | 20.57 | 20.67 |
| 10 | 25 | 0 | | 20.32 | 20.05 | 20.07 |
| 10 | 25 | 12 | | 20.28 | 20.01 | 20.05 |
| 10 | 25 | 25 | | 20.20 | 19.96 | 20.07 |
| 10 | 50 | 0 | | 20.27 | 20.03 | 20.02 |
| 5 | 1 | 0 | QPSK | 23.21 | 22.95 | 22.98 |
| 5 | 1 | 12 | | 23.14 | 22.92 | 22.96 |
| 5 | 1 | 24 | | 23.04 | 22.82 | 22.88 |
| 5 | 12 | 0 | | 22.17 | 21.97 | 22.02 |
| 5 | 12 | 7 | | 22.17 | 21.96 | 22.03 |
| 5 | 12 | 13 | | 22.12 | 21.90 | 21.94 |
| 5 | 25 | 0 | | 22.13 | 21.93 | 21.94 |
| 5 | 1 | 0 | 16-QAM | 22.32 | 22.07 | 22.15 |
| 5 | 1 | 12 | | 22.30 | 22.07 | 22.11 |
| 5 | 1 | 24 | | 22.26 | 22.01 | 22.04 |
| 5 | 12 | 0 | | 21.22 | 20.99 | 21.05 |
| 5 | 12 | 7 | | 21.23 | 21.00 | 21.04 |
| 5 | 12 | 13 | | 21.16 | 20.95 | 20.97 |
| 5 | 25 | 0 | | 21.24 | 21.03 | 21.07 |
| 5 | 1 | 0 | 64-QAM | 20.96 | 20.71 | 20.78 |
| 5 | 1 | 12 | | 20.91 | 20.67 | 20.72 |
| 5 | 1 | 24 | | 20.87 | 20.64 | 20.69 |
| 5 | 12 | 0 | | 20.32 | 20.08 | 20.12 |
| 5 | 12 | 7 | | 20.32 | 20.09 | 20.12 |
| 5 | 12 | 13 | | 20.27 | 20.03 | 20.08 |
| 5 | 25 | 0 | | 20.27 | 20.08 | 20.09 |



| LTE Band 41 Maximum Average Power [dBm] | | | | | | |
|---|---------|-----------|--------|--------|--------|---------|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 20 | 1 | 0 | QPSK | 24.86 | 24.88 | 24.31 |
| 20 | 1 | 49 | | 24.60 | 24.60 | 25.08 |
| 20 | 1 | 99 | | 24.70 | 24.63 | 24.13 |
| 20 | 50 | 0 | | 23.72 | 23.75 | 24.16 |
| 20 | 50 | 24 | | 23.78 | 23.67 | 24.15 |
| 20 | 50 | 50 | | 23.73 | 23.56 | 24.12 |
| 20 | 100 | 0 | | 23.74 | 23.63 | 23.85 |
| 20 | 1 | 0 | 16-QAM | 24.02 | 24.04 | 23.57 |
| 20 | 1 | 49 | | 23.72 | 23.77 | 24.15 |
| 20 | 1 | 99 | | 23.80 | 23.73 | 23.28 |
| 20 | 50 | 0 | | 22.84 | 22.87 | 23.18 |
| 20 | 50 | 24 | | 22.88 | 22.77 | 23.15 |
| 20 | 50 | 50 | | 22.81 | 22.68 | 23.02 |
| 20 | 100 | 0 | | 22.87 | 22.78 | 23.11 |
| 20 | 1 | 0 | 64-QAM | 22.60 | 22.64 | 22.16 |
| 20 | 1 | 49 | | 22.35 | 22.36 | 22.96 |
| 20 | 1 | 99 | | 22.40 | 22.36 | 21.88 |
| 20 | 50 | 0 | | 21.88 | 21.87 | 22.17 |
| 20 | 50 | 24 | | 21.86 | 21.76 | 22.18 |
| 20 | 50 | 50 | | 21.81 | 21.67 | 22.14 |
| 20 | 100 | 0 | | 21.87 | 21.77 | 22.07 |
| 15 | 1 | 0 | QPSK | 24.69 | 24.54 | 24.48 |
| 15 | 1 | 37 | | 24.55 | 24.34 | 24.34 |
| 15 | 1 | 74 | | 24.67 | 24.27 | 24.30 |
| 15 | 36 | 0 | | 23.64 | 23.42 | 23.41 |
| 15 | 36 | 20 | | 23.61 | 23.38 | 23.30 |
| 15 | 36 | 39 | | 23.63 | 23.27 | 23.36 |
| 15 | 75 | 0 | | 23.67 | 23.35 | 23.32 |
| 15 | 1 | 0 | 16-QAM | 23.86 | 23.69 | 23.62 |
| 15 | 1 | 37 | | 23.69 | 23.49 | 23.45 |
| 15 | 1 | 74 | | 23.78 | 23.41 | 23.39 |
| 15 | 36 | 0 | | 22.73 | 22.48 | 22.46 |
| 15 | 36 | 20 | | 22.65 | 22.42 | 22.34 |
| 15 | 36 | 39 | | 22.69 | 22.34 | 22.43 |
| 15 | 75 | 0 | | 22.79 | 22.46 | 22.43 |
| 15 | 1 | 0 | 64-QAM | 22.45 | 22.27 | 22.20 |
| 15 | 1 | 37 | | 22.27 | 22.08 | 22.08 |
| 15 | 1 | 74 | | 22.38 | 22.03 | 22.03 |
| 15 | 36 | 0 | | 21.77 | 21.50 | 21.51 |
| 15 | 36 | 20 | | 21.70 | 21.47 | 21.40 |
| 15 | 36 | 39 | | 21.72 | 21.39 | 21.47 |
| 15 | 75 | 0 | | 21.81 | 21.48 | 21.47 |



| LTE Band 41 Maximum Average Power [dBm] | | | | | | |
|---|---------|-----------|--------|--------|--------|---------|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 10 | 1 | 0 | QPSK | 24.63 | 24.44 | 24.56 |
| 10 | 1 | 25 | | 24.55 | 24.34 | 24.42 |
| 10 | 1 | 49 | | 24.50 | 24.28 | 24.47 |
| 10 | 25 | 0 | | 23.60 | 23.37 | 23.42 |
| 10 | 25 | 12 | | 23.59 | 23.37 | 23.47 |
| 10 | 25 | 25 | | 23.52 | 23.28 | 23.45 |
| 10 | 50 | 0 | | 23.58 | 23.35 | 23.40 |
| 10 | 1 | 0 | 16-QAM | 23.79 | 23.59 | 23.68 |
| 10 | 1 | 25 | | 23.70 | 23.49 | 23.55 |
| 10 | 1 | 49 | | 23.63 | 23.39 | 23.60 |
| 10 | 25 | 0 | | 22.72 | 22.45 | 22.52 |
| 10 | 25 | 12 | | 22.69 | 22.44 | 22.57 |
| 10 | 25 | 25 | | 22.63 | 22.38 | 22.55 |
| 10 | 50 | 0 | | 22.70 | 22.45 | 22.52 |
| 10 | 1 | 0 | 64-QAM | 22.39 | 22.21 | 22.31 |
| 10 | 1 | 25 | | 22.32 | 22.11 | 22.17 |
| 10 | 1 | 49 | | 22.26 | 22.03 | 22.23 |
| 10 | 25 | 0 | | 21.80 | 21.52 | 21.59 |
| 10 | 25 | 12 | | 21.76 | 21.51 | 21.64 |
| 10 | 25 | 25 | | 21.69 | 21.43 | 21.63 |
| 10 | 50 | 0 | | 21.69 | 21.46 | 21.51 |
| 5 | 1 | 0 | QPSK | 24.60 | 24.40 | 24.37 |
| 5 | 1 | 12 | | 24.58 | 24.35 | 24.34 |
| 5 | 1 | 24 | | 24.50 | 24.26 | 24.27 |
| 5 | 12 | 0 | | 23.64 | 23.37 | 23.37 |
| 5 | 12 | 7 | | 23.62 | 23.36 | 23.38 |
| 5 | 12 | 13 | | 23.59 | 23.32 | 23.32 |
| 5 | 25 | 0 | | 23.57 | 23.34 | 23.33 |
| 5 | 1 | 0 | 16-QAM | 23.72 | 23.52 | 23.51 |
| 5 | 1 | 12 | | 23.72 | 23.50 | 23.49 |
| 5 | 1 | 24 | | 23.69 | 23.43 | 23.44 |
| 5 | 12 | 0 | | 22.69 | 22.41 | 22.41 |
| 5 | 12 | 7 | | 22.67 | 22.40 | 22.41 |
| 5 | 12 | 13 | | 22.62 | 22.35 | 22.37 |
| 5 | 25 | 0 | | 22.71 | 22.44 | 22.44 |
| 5 | 1 | 0 | 64-QAM | 22.35 | 22.14 | 22.12 |
| 5 | 1 | 12 | | 22.33 | 22.11 | 22.09 |
| 5 | 1 | 24 | | 22.29 | 22.07 | 22.08 |
| 5 | 12 | 0 | | 21.77 | 21.51 | 21.49 |
| 5 | 12 | 7 | | 21.77 | 21.48 | 21.50 |
| 5 | 12 | 13 | | 21.73 | 21.45 | 21.46 |
| 5 | 25 | 0 | | 21.76 | 21.48 | 21.48 |



| LTE Band 30 Maximum Average Power [dBm] | | | | | | |
|---|---------|-----------|--------|--------|--------|---------|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 10 | 1 | 0 | QPSK | | 23.19 | |
| 10 | 1 | 25 | | | 23.08 | |
| 10 | 1 | 49 | | | 23.01 | |
| 10 | 25 | 0 | | | 22.19 | |
| 10 | 25 | 12 | | | 22.16 | |
| 10 | 25 | 25 | | | 22.07 | |
| 10 | 50 | 0 | | | 22.17 | |
| 10 | 1 | 0 | 16-QAM | - | 22.51 | - |
| 10 | 1 | 25 | | | 22.40 | |
| 10 | 1 | 49 | | | 22.26 | |
| 10 | 25 | 0 | | | 21.31 | |
| 10 | 25 | 12 | | | 21.24 | |
| 10 | 25 | 25 | | | 21.16 | |
| 10 | 50 | 0 | | | 21.23 | |
| 10 | 1 | 0 | 64-QAM | | 21.52 | |
| 10 | 1 | 25 | | | 21.33 | |
| 10 | 1 | 49 | | | 21.21 | |
| 10 | 25 | 0 | | | 20.30 | |
| 10 | 25 | 12 | | | 20.25 | |
| 10 | 25 | 25 | | | 20.23 | |
| 10 | 50 | 0 | | | 20.27 | |
| 5 | 1 | 0 | QPSK | 23.16 | 23.13 | 23.16 |
| 5 | 1 | 12 | | 23.05 | 23.05 | 22.91 |
| 5 | 1 | 24 | | 23.04 | 23.02 | 23.00 |
| 5 | 12 | 0 | | 22.11 | 22.11 | 22.14 |
| 5 | 12 | 7 | | 22.13 | 22.13 | 21.98 |
| 5 | 12 | 13 | | 22.05 | 22.10 | 21.93 |
| 5 | 25 | 0 | | 22.08 | 22.10 | 22.08 |
| 5 | 1 | 0 | 16-QAM | 22.42 | 22.53 | 22.44 |
| 5 | 1 | 12 | | 22.43 | 22.37 | 22.23 |
| 5 | 1 | 24 | | 22.37 | 22.27 | 22.24 |
| 5 | 12 | 0 | | 21.25 | 21.26 | 21.18 |
| 5 | 12 | 7 | | 21.23 | 21.25 | 21.06 |
| 5 | 12 | 13 | | 21.22 | 21.20 | 21.00 |
| 5 | 25 | 0 | | 21.26 | 21.19 | 21.15 |
| 5 | 1 | 0 | 64-QAM | 21.43 | 21.38 | 21.43 |
| 5 | 1 | 12 | | 21.33 | 21.38 | 21.27 |
| 5 | 1 | 24 | | 21.25 | 21.28 | 21.23 |
| 5 | 12 | 0 | | 20.26 | 20.30 | 20.27 |
| 5 | 12 | 7 | | 20.25 | 20.26 | 20.17 |
| 5 | 12 | 13 | | 20.27 | 20.22 | 20.05 |
| 5 | 25 | 0 | | 20.20 | 20.17 | 20.20 |



| LTE Band 66 Maximum Average Power [dBm] | | | | | | |
|---|---------|-----------|--------|--------|--------|---------|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 20 | 1 | 0 | QPSK | 23.23 | 23.03 | 23.01 |
| 20 | 1 | 49 | | 23.10 | 23.18 | 23.07 |
| 20 | 1 | 99 | | 23.11 | 23.10 | 23.10 |
| 20 | 50 | 0 | | 22.23 | 22.06 | 22.04 |
| 20 | 50 | 24 | | 22.14 | 22.04 | 22.01 |
| 20 | 50 | 50 | | 22.04 | 22.02 | 22.02 |
| 20 | 100 | 0 | | 22.15 | 22.08 | 22.03 |
| 20 | 1 | 0 | 16-QAM | 22.61 | 22.27 | 22.21 |
| 20 | 1 | 49 | | 22.26 | 22.07 | 22.05 |
| 20 | 1 | 99 | | 22.22 | 22.16 | 22.09 |
| 20 | 50 | 0 | | 21.22 | 21.02 | 21.02 |
| 20 | 50 | 24 | | 21.17 | 21.10 | 20.88 |
| 20 | 50 | 50 | | 21.10 | 21.02 | 21.02 |
| 20 | 100 | 0 | | 21.17 | 21.08 | 21.11 |
| 20 | 1 | 0 | 64-QAM | 21.43 | 21.35 | 21.29 |
| 20 | 1 | 49 | | 21.20 | 21.03 | 21.05 |
| 20 | 1 | 99 | | 21.17 | 21.08 | 21.02 |
| 20 | 50 | 0 | | 20.24 | 20.04 | 20.01 |
| 20 | 50 | 24 | | 20.15 | 20.10 | 19.89 |
| 20 | 50 | 50 | | 20.08 | 19.99 | 19.80 |
| 20 | 100 | 0 | | 20.15 | 20.09 | 19.91 |
| 15 | 1 | 0 | QPSK | 23.14 | 22.99 | 22.94 |
| 15 | 1 | 37 | | 22.96 | 22.89 | 22.67 |
| 15 | 1 | 74 | | 23.01 | 22.81 | 22.76 |
| 15 | 36 | 0 | | 22.15 | 21.96 | 21.88 |
| 15 | 36 | 20 | | 22.11 | 22.01 | 21.79 |
| 15 | 36 | 39 | | 22.07 | 21.95 | 21.73 |
| 15 | 75 | 0 | | 22.10 | 21.95 | 21.76 |
| 15 | 1 | 0 | 16-QAM | 22.64 | 22.27 | 22.28 |
| 15 | 1 | 37 | | 22.32 | 22.18 | 21.90 |
| 15 | 1 | 74 | | 22.33 | 22.16 | 22.24 |
| 15 | 36 | 0 | | 21.25 | 21.01 | 20.93 |
| 15 | 36 | 20 | | 21.20 | 21.12 | 20.90 |
| 15 | 36 | 39 | | 21.15 | 21.05 | 20.79 |
| 15 | 75 | 0 | | 21.21 | 21.09 | 20.86 |
| 15 | 1 | 0 | 64-QAM | 21.45 | 21.35 | 21.25 |
| 15 | 1 | 37 | | 21.31 | 21.20 | 21.04 |
| 15 | 1 | 74 | | 21.25 | 21.13 | 21.01 |
| 15 | 36 | 0 | | 20.30 | 20.05 | 20.02 |
| 15 | 36 | 20 | | 20.23 | 20.12 | 19.97 |
| 15 | 36 | 39 | | 20.17 | 20.10 | 19.87 |
| 15 | 75 | 0 | | 20.20 | 20.07 | 19.88 |



| LTE Band 66 Maximum Average Power [dBm] | | | | | | |
|---|---------|-----------|--------|--------|--------|---------|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 10 | 1 | 0 | QPSK | 23.09 | 22.88 | 22.79 |
| 10 | 1 | 25 | | 23.00 | 22.88 | 22.83 |
| 10 | 1 | 49 | | 22.99 | 22.77 | 22.74 |
| 10 | 25 | 0 | | 22.11 | 21.86 | 21.82 |
| 10 | 25 | 12 | | 22.11 | 22.00 | 21.75 |
| 10 | 25 | 25 | | 22.06 | 21.93 | 21.83 |
| 10 | 50 | 0 | | 22.08 | 21.96 | 21.76 |
| 10 | 1 | 0 | 16-QAM | 22.47 | 22.15 | 22.16 |
| 10 | 1 | 25 | | 22.46 | 22.20 | 22.19 |
| 10 | 1 | 49 | | 22.40 | 22.07 | 21.99 |
| 10 | 25 | 0 | | 21.24 | 20.96 | 20.90 |
| 10 | 25 | 12 | | 21.21 | 21.07 | 20.87 |
| 10 | 25 | 25 | | 21.15 | 21.04 | 20.91 |
| 10 | 50 | 0 | | 21.16 | 21.09 | 20.86 |
| 10 | 1 | 0 | 64-QAM | 21.41 | 21.10 | 21.08 |
| 10 | 1 | 25 | | 21.29 | 21.23 | 21.13 |
| 10 | 1 | 49 | | 21.20 | 21.00 | 21.05 |
| 10 | 25 | 0 | | 20.21 | 20.02 | 19.91 |
| 10 | 25 | 12 | | 20.22 | 20.08 | 19.85 |
| 10 | 25 | 25 | | 20.15 | 20.04 | 19.91 |
| 10 | 50 | 0 | | 20.20 | 20.06 | 19.86 |
| 5 | 1 | 0 | QPSK | 23.08 | 22.88 | 22.81 |
| 5 | 1 | 12 | | 23.06 | 22.88 | 22.79 |
| 5 | 1 | 24 | | 23.05 | 22.85 | 22.76 |
| 5 | 12 | 0 | | 22.12 | 21.83 | 21.82 |
| 5 | 12 | 7 | | 22.11 | 21.96 | 21.81 |
| 5 | 12 | 13 | | 22.02 | 21.89 | 21.78 |
| 5 | 25 | 0 | | 22.07 | 21.91 | 21.80 |
| 5 | 1 | 0 | 16-QAM | 22.43 | 22.13 | 22.10 |
| 5 | 1 | 12 | | 22.33 | 22.24 | 22.08 |
| 5 | 1 | 24 | | 22.40 | 22.19 | 22.01 |
| 5 | 12 | 0 | | 21.24 | 20.94 | 20.91 |
| 5 | 12 | 7 | | 21.21 | 21.05 | 20.93 |
| 5 | 12 | 13 | | 21.21 | 21.06 | 20.90 |
| 5 | 25 | 0 | | 21.20 | 21.04 | 20.90 |
| 5 | 1 | 0 | 64-QAM | 21.36 | 21.12 | 21.08 |
| 5 | 1 | 12 | | 21.30 | 20.97 | 21.07 |
| 5 | 1 | 24 | | 21.26 | 20.98 | 21.04 |
| 5 | 12 | 0 | | 19.96 | 19.98 | 19.92 |
| 5 | 12 | 7 | | 19.93 | 20.12 | 19.93 |
| 5 | 12 | 13 | | 20.01 | 20.09 | 19.94 |
| 5 | 25 | 0 | | 19.98 | 20.10 | 19.91 |



| LTE Band 66 Maximum Average Power [dBm] | | | | | | |
|---|---------|-----------|--------|--------|--------|---------|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 3 | 1 | 0 | QPSK | 23.07 | 22.80 | 22.78 |
| 3 | 1 | 8 | | 23.00 | 22.87 | 22.79 |
| 3 | 1 | 14 | | 22.99 | 22.83 | 22.72 |
| 3 | 8 | 0 | | 22.10 | 21.94 | 21.75 |
| 3 | 8 | 4 | | 22.10 | 21.94 | 21.78 |
| 3 | 8 | 7 | | 22.03 | 21.94 | 21.80 |
| 3 | 15 | 0 | | 22.08 | 21.97 | 21.80 |
| 3 | 1 | 0 | 16-QAM | 22.43 | 22.08 | 22.19 |
| 3 | 1 | 8 | | 22.32 | 22.23 | 22.13 |
| 3 | 1 | 14 | | 22.33 | 22.19 | 22.01 |
| 3 | 8 | 0 | | 21.24 | 21.06 | 20.94 |
| 3 | 8 | 4 | | 21.29 | 21.15 | 21.00 |
| 3 | 8 | 7 | | 21.23 | 21.09 | 20.94 |
| 3 | 15 | 0 | | 21.20 | 21.03 | 20.91 |
| 3 | 1 | 0 | 64-QAM | 21.31 | 21.08 | 20.98 |
| 3 | 1 | 8 | | 21.34 | 21.21 | 21.04 |
| 3 | 1 | 14 | | 21.30 | 21.17 | 20.99 |
| 3 | 8 | 0 | | 20.22 | 20.10 | 19.90 |
| 3 | 8 | 4 | | 20.29 | 20.10 | 19.94 |
| 3 | 8 | 7 | | 20.19 | 20.09 | 19.93 |
| 3 | 15 | 0 | | 20.18 | 20.01 | 19.87 |
| 1.4 | 1 | 0 | QPSK | 23.21 | 23.16 | 23.18 |
| 1.4 | 1 | 3 | | 23.20 | 23.20 | 23.22 |
| 1.4 | 1 | 5 | | 23.18 | 23.18 | 23.21 |
| 1.4 | 3 | 0 | | 23.20 | 23.20 | 23.15 |
| 1.4 | 3 | 1 | | 23.15 | 23.18 | 23.20 |
| 1.4 | 3 | 3 | | 23.20 | 23.20 | 23.19 |
| 1.4 | 6 | 0 | | 22.33 | 22.24 | 22.40 |
| 1.4 | 1 | 0 | 16-QAM | 22.62 | 22.58 | 22.58 |
| 1.4 | 1 | 3 | | 22.62 | 22.56 | 22.72 |
| 1.4 | 1 | 5 | | 22.69 | 22.54 | 22.47 |
| 1.4 | 3 | 0 | | 22.47 | 22.37 | 22.44 |
| 1.4 | 3 | 1 | | 22.44 | 22.33 | 22.40 |
| 1.4 | 3 | 3 | | 22.43 | 22.27 | 22.35 |
| 1.4 | 6 | 0 | | 21.49 | 21.39 | 21.56 |
| 1.4 | 1 | 0 | 64-QAM | 21.49 | 21.45 | 21.59 |
| 1.4 | 1 | 3 | | 21.58 | 21.52 | 21.63 |
| 1.4 | 1 | 5 | | 21.54 | 21.49 | 21.49 |
| 1.4 | 3 | 0 | | 21.57 | 21.40 | 21.55 |
| 1.4 | 3 | 1 | | 21.54 | 21.42 | 21.54 |
| 1.4 | 3 | 3 | | 21.53 | 21.39 | 21.47 |
| 1.4 | 6 | 0 | | 20.41 | 20.32 | 20.46 |



| LTE Band 71 Maximum Average Power [dBm] | | | | | | |
|---|---------|-----------|--------|--------|--------|---------|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 20 | 1 | 0 | QPSK | 24.47 | 24.18 | 24.36 |
| 20 | 1 | 49 | | 23.18 | 23.05 | 23.49 |
| 20 | 1 | 99 | | 24.00 | 24.04 | 23.91 |
| 20 | 50 | 0 | | 22.59 | 22.40 | 22.76 |
| 20 | 50 | 24 | | 22.32 | 22.19 | 22.51 |
| 20 | 50 | 50 | | 22.43 | 22.39 | 22.75 |
| 20 | 100 | 0 | | 22.51 | 22.38 | 22.72 |
| 20 | 1 | 0 | 16-QAM | 23.50 | 23.46 | 23.50 |
| 20 | 1 | 49 | | 22.52 | 22.35 | 22.73 |
| 20 | 1 | 99 | | 23.40 | 23.30 | 23.07 |
| 20 | 50 | 0 | | 21.66 | 21.52 | 21.85 |
| 20 | 50 | 24 | | 21.37 | 21.29 | 21.67 |
| 20 | 50 | 50 | | 21.51 | 21.50 | 21.94 |
| 20 | 100 | 0 | | 21.58 | 21.45 | 21.80 |
| 20 | 1 | 0 | 64-QAM | 22.39 | 22.44 | 22.49 |
| 20 | 1 | 49 | | 21.42 | 21.33 | 21.68 |
| 20 | 1 | 99 | | 22.31 | 22.15 | 22.31 |
| 20 | 50 | 0 | | 20.69 | 20.47 | 20.84 |
| 20 | 50 | 24 | | 20.33 | 20.18 | 20.60 |
| 20 | 50 | 50 | | 20.60 | 20.51 | 20.94 |
| 20 | 100 | 0 | | 20.59 | 20.49 | 20.80 |
| 15 | 1 | 0 | QPSK | 23.41 | 23.18 | 23.12 |
| 15 | 1 | 37 | | 22.70 | 22.52 | 22.62 |
| 15 | 1 | 74 | | 22.98 | 23.00 | 22.78 |
| 15 | 36 | 0 | | 22.04 | 21.77 | 21.84 |
| 15 | 36 | 20 | | 21.72 | 21.63 | 21.77 |
| 15 | 36 | 39 | | 21.75 | 21.76 | 21.87 |
| 15 | 75 | 0 | | 21.78 | 21.69 | 21.85 |
| 15 | 1 | 0 | 16-QAM | 22.67 | 22.48 | 22.43 |
| 15 | 1 | 37 | | 22.04 | 21.83 | 22.08 |
| 15 | 1 | 74 | | 22.31 | 22.31 | 22.50 |
| 15 | 36 | 0 | | 21.08 | 20.92 | 20.94 |
| 15 | 36 | 20 | | 20.84 | 20.70 | 20.86 |
| 15 | 36 | 39 | | 20.83 | 20.84 | 20.90 |
| 15 | 75 | 0 | | 20.88 | 20.93 | 20.92 |
| 15 | 1 | 0 | 64-QAM | 21.51 | 21.44 | 21.32 |
| 15 | 1 | 37 | | 20.89 | 20.77 | 20.98 |
| 15 | 1 | 74 | | 21.21 | 21.32 | 20.86 |
| 15 | 36 | 0 | | 20.12 | 19.88 | 20.00 |
| 15 | 36 | 20 | | 19.80 | 19.73 | 19.89 |
| 15 | 36 | 39 | | 19.90 | 19.85 | 19.99 |
| 15 | 75 | 0 | | 19.92 | 19.75 | 19.95 |



| LTE Band 71 Maximum Average Power [dBm] | | | | | | |
|---|---------|-----------|--------|--------|--------|---------|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 10 | 1 | 0 | QPSK | 22.80 | 22.64 | 22.70 |
| 10 | 1 | 25 | | 22.75 | 22.47 | 22.66 |
| 10 | 1 | 49 | | 22.57 | 22.61 | 22.73 |
| 10 | 25 | 0 | | 21.84 | 21.54 | 21.66 |
| 10 | 25 | 12 | | 21.76 | 21.54 | 21.72 |
| 10 | 25 | 25 | | 21.62 | 21.44 | 21.68 |
| 10 | 50 | 0 | | 21.68 | 21.51 | 21.68 |
| 10 | 1 | 0 | 16-QAM | 22.17 | 21.93 | 22.09 |
| 10 | 1 | 25 | | 21.97 | 21.77 | 22.02 |
| 10 | 1 | 49 | | 21.83 | 21.99 | 22.03 |
| 10 | 25 | 0 | | 20.99 | 20.65 | 20.80 |
| 10 | 25 | 12 | | 20.90 | 20.71 | 20.80 |
| 10 | 25 | 25 | | 20.72 | 20.52 | 20.84 |
| 10 | 50 | 0 | | 20.79 | 20.57 | 20.79 |
| 10 | 1 | 0 | 64-QAM | 21.07 | 20.88 | 20.99 |
| 10 | 1 | 25 | | 21.01 | 20.78 | 20.90 |
| 10 | 1 | 49 | | 20.81 | 20.84 | 21.12 |
| 10 | 25 | 0 | | 19.90 | 19.76 | 19.81 |
| 10 | 25 | 12 | | 19.85 | 19.71 | 19.82 |
| 10 | 25 | 25 | | 19.68 | 19.53 | 19.85 |
| 10 | 50 | 0 | | 19.75 | 19.69 | 19.80 |
| 5 | 1 | 0 | QPSK | 22.67 | 22.56 | 22.73 |
| 5 | 1 | 12 | | 22.85 | 22.47 | 22.75 |
| 5 | 1 | 24 | | 22.83 | 22.54 | 22.79 |
| 5 | 12 | 0 | | 21.86 | 21.54 | 21.70 |
| 5 | 12 | 7 | | 21.88 | 21.52 | 21.75 |
| 5 | 12 | 13 | | 21.86 | 21.49 | 21.70 |
| 5 | 25 | 0 | | 21.88 | 21.48 | 21.75 |
| 5 | 1 | 0 | 16-QAM | 22.23 | 21.88 | 21.96 |
| 5 | 1 | 12 | | 22.19 | 21.84 | 22.02 |
| 5 | 1 | 24 | | 22.10 | 21.89 | 22.09 |
| 5 | 12 | 0 | | 21.03 | 20.68 | 20.82 |
| 5 | 12 | 7 | | 21.06 | 20.65 | 20.87 |
| 5 | 12 | 13 | | 21.02 | 20.59 | 20.82 |
| 5 | 25 | 0 | | 20.99 | 20.60 | 20.84 |
| 5 | 1 | 0 | 64-QAM | 21.17 | 20.86 | 20.90 |
| 5 | 1 | 12 | | 21.13 | 20.79 | 20.98 |
| 5 | 1 | 24 | | 21.06 | 20.85 | 21.03 |
| 5 | 12 | 0 | | 20.10 | 19.70 | 19.84 |
| 5 | 12 | 7 | | 20.00 | 19.66 | 19.88 |
| 5 | 12 | 13 | | 19.99 | 19.62 | 19.84 |
| 5 | 25 | 0 | | 19.98 | 19.58 | 19.88 |



<For HPUE>

| LTE Band 41 Maximum Average Power [dBm] | | | | | | |
|---|---------|-----------|--------|--------|--------|---------|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 20 | 1 | 0 | QPSK | 26.12 | 26.08 | 25.10 |
| 20 | 1 | 49 | | 25.92 | 25.85 | 25.20 |
| 20 | 1 | 99 | | 25.96 | 25.85 | 25.30 |
| 20 | 50 | 0 | | 25.19 | 25.13 | 24.94 |
| 20 | 50 | 24 | | 25.23 | 25.03 | 25.14 |
| 20 | 50 | 50 | | 25.12 | 24.92 | 25.40 |
| 20 | 100 | 0 | | 25.21 | 25.01 | 24.79 |
| 20 | 1 | 0 | 16-QAM | 25.46 | 25.44 | 24.52 |
| 20 | 1 | 49 | | 25.28 | 25.20 | 25.68 |
| 20 | 1 | 99 | | 25.28 | 25.17 | 24.65 |
| 20 | 50 | 0 | | 24.30 | 24.22 | 24.11 |
| 20 | 50 | 24 | | 24.32 | 24.15 | 24.44 |
| 20 | 50 | 50 | | 24.25 | 24.04 | 24.50 |
| 20 | 100 | 0 | | 24.33 | 24.13 | 23.97 |
| 20 | 1 | 0 | 64-QAM | 25.35 | 25.35 | 24.54 |
| 20 | 1 | 49 | | 25.16 | 25.11 | 25.61 |
| 20 | 1 | 99 | | 25.15 | 25.06 | 24.54 |
| 20 | 50 | 0 | | 24.23 | 24.17 | 24.11 |
| 20 | 50 | 24 | | 24.26 | 24.09 | 24.39 |
| 20 | 50 | 50 | | 24.20 | 23.96 | 24.45 |
| 20 | 100 | 0 | | 24.34 | 24.16 | 24.14 |
| 15 | 1 | 0 | QPSK | 26.08 | 26.05 | 25.59 |
| 15 | 1 | 37 | | 26.03 | 25.94 | 26.07 |
| 15 | 1 | 74 | | 26.03 | 25.91 | 26.01 |
| 15 | 36 | 0 | | 25.17 | 25.10 | 24.70 |
| 15 | 36 | 20 | | 25.13 | 25.06 | 25.03 |
| 15 | 36 | 39 | | 25.16 | 24.93 | 25.12 |
| 15 | 75 | 0 | | 25.18 | 24.99 | 24.65 |
| 15 | 1 | 0 | 16-QAM | 25.42 | 25.41 | 24.76 |
| 15 | 1 | 37 | | 25.28 | 25.24 | 25.29 |
| 15 | 1 | 74 | | 25.34 | 25.14 | 25.25 |
| 15 | 36 | 0 | | 24.25 | 24.18 | 23.94 |
| 15 | 36 | 20 | | 24.21 | 24.11 | 24.11 |
| 15 | 36 | 39 | | 24.20 | 24.00 | 24.20 |
| 15 | 75 | 0 | | 24.30 | 24.12 | 23.93 |
| 15 | 1 | 0 | 64-QAM | 24.24 | 24.21 | 23.73 |
| 15 | 1 | 37 | | 24.08 | 24.03 | 24.13 |
| 15 | 1 | 74 | | 24.18 | 23.96 | 24.10 |
| 15 | 36 | 0 | | 23.28 | 23.18 | 23.04 |
| 15 | 36 | 20 | | 23.24 | 23.16 | 23.16 |
| 15 | 36 | 39 | | 23.25 | 23.05 | 23.23 |
| 15 | 75 | 0 | | 23.31 | 23.14 | 23.13 |



| LTE Band 41 Maximum Average Power [dBm] | | | | | | |
|---|---------|-----------|--------|--------|--------|---------|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 10 | 1 | 0 | QPSK | 26.03 | 26.00 | 25.92 |
| 10 | 1 | 25 | | 25.98 | 25.91 | 26.00 |
| 10 | 1 | 49 | | 25.93 | 25.83 | 26.07 |
| 10 | 25 | 0 | | 25.14 | 25.07 | 25.09 |
| 10 | 25 | 12 | | 25.13 | 25.02 | 25.11 |
| 10 | 25 | 25 | | 25.09 | 25.00 | 25.09 |
| 10 | 50 | 0 | | 25.15 | 25.04 | 24.99 |
| 10 | 1 | 0 | 16-QAM | 25.36 | 25.31 | 25.23 |
| 10 | 1 | 25 | | 25.33 | 25.24 | 25.32 |
| 10 | 1 | 49 | | 25.29 | 25.16 | 25.38 |
| 10 | 25 | 0 | | 24.27 | 24.20 | 24.22 |
| 10 | 25 | 12 | | 24.26 | 24.13 | 24.23 |
| 10 | 25 | 25 | | 24.20 | 24.08 | 24.19 |
| 10 | 50 | 0 | | 24.25 | 24.16 | 24.17 |
| 10 | 1 | 0 | 64-QAM | 24.20 | 24.13 | 24.24 |
| 10 | 1 | 25 | | 24.13 | 24.06 | 24.15 |
| 10 | 1 | 49 | | 24.08 | 23.98 | 24.22 |
| 10 | 25 | 0 | | 23.33 | 23.23 | 23.28 |
| 10 | 25 | 12 | | 23.32 | 23.20 | 23.29 |
| 10 | 25 | 25 | | 23.25 | 23.13 | 23.27 |
| 10 | 50 | 0 | | 23.24 | 23.11 | 23.19 |
| 5 | 1 | 0 | QPSK | 26.00 | 25.92 | 26.04 |
| 5 | 1 | 12 | | 25.99 | 25.89 | 26.00 |
| 5 | 1 | 24 | | 25.93 | 25.81 | 25.94 |
| 5 | 12 | 0 | | 25.15 | 25.02 | 25.11 |
| 5 | 12 | 7 | | 25.14 | 25.04 | 25.09 |
| 5 | 12 | 13 | | 25.13 | 25.00 | 25.06 |
| 5 | 25 | 0 | | 25.12 | 24.97 | 25.07 |
| 5 | 1 | 0 | 16-QAM | 25.30 | 25.25 | 25.33 |
| 5 | 1 | 12 | | 25.34 | 25.24 | 25.33 |
| 5 | 1 | 24 | | 25.28 | 25.18 | 25.26 |
| 5 | 12 | 0 | | 24.25 | 24.15 | 24.22 |
| 5 | 12 | 7 | | 24.25 | 24.13 | 24.21 |
| 5 | 12 | 13 | | 24.20 | 24.09 | 24.16 |
| 5 | 25 | 0 | | 24.24 | 24.12 | 24.20 |
| 5 | 1 | 0 | 64-QAM | 24.13 | 24.07 | 24.17 |
| 5 | 1 | 12 | | 24.11 | 24.05 | 24.17 |
| 5 | 1 | 24 | | 24.10 | 24.01 | 24.12 |
| 5 | 12 | 0 | | 23.28 | 23.18 | 23.28 |
| 5 | 12 | 7 | | 23.28 | 23.19 | 23.27 |
| 5 | 12 | 13 | | 23.24 | 23.13 | 23.23 |
| 5 | 25 | 0 | | 23.28 | 23.18 | 23.25 |



LTE Band 7

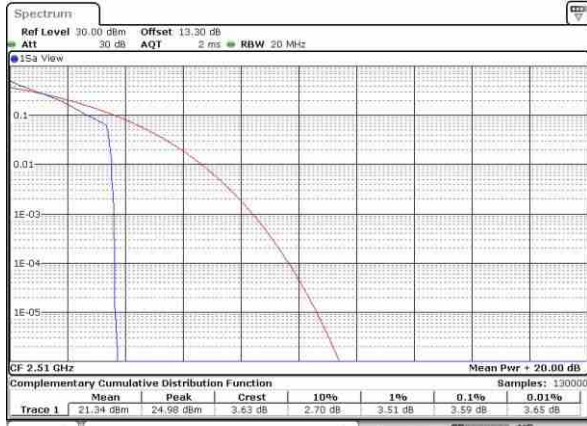
Peak-to-Average Ratio

| Mode | LTE Band 7 / 20MHz | | | | |
|------------|--------------------|---------|-------|---------|-------------|
| Mod. | QPSK | | 16QAM | | Limit: 13dB |
| RB Size | 1RB | Full RB | 1RB | Full RB | Result |
| Lowest CH | 3.59 | 4.46 | 5.1 | 5.86 | PASS |
| Middle CH | 3.45 | 4.32 | 4.32 | 5.59 | |
| Highest CH | 3.54 | 4.29 | 5.19 | 5.51 | |
| Mode | LTE Band 7 / 20MHz | | | | |
| Mod. | 64QAM | | | | Limit: 13dB |
| RB Size | 1RB | Full RB | | | Result |
| Lowest CH | 6.41 | 6.26 | - | - | PASS |
| Middle CH | 5.30 | 6.41 | - | - | |
| Highest CH | 6.20 | 6.29 | - | - | |



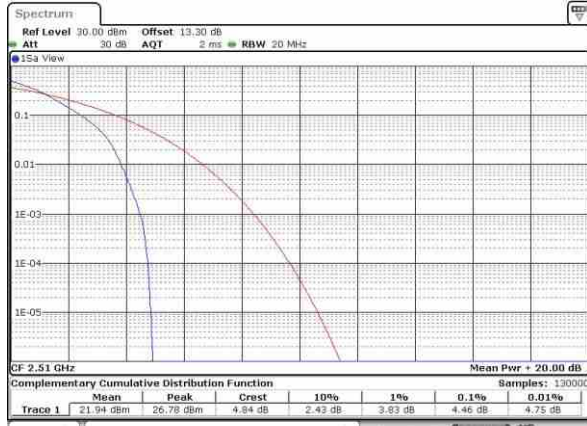
LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



Date: 13, MAR, 2018 15:17:30

Lowest Channel / Full RB



Date: 13, MAR, 2018 15:18:17

Middle Channel / 1RB



Date: 13, MAR, 2018 15:18:42

Middle Channel / Full RB



Date: 13, MAR, 2018 15:19:01

Highest Channel / 1RB



Date: 13, MAR, 2018 15:19:25

Highest Channel / Full RB

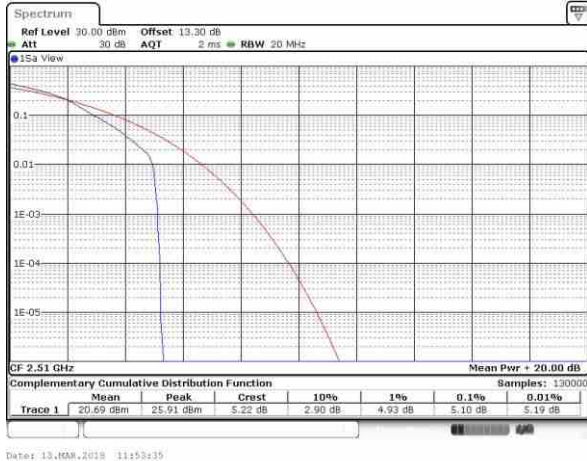


Date: 13, MAR, 2018 15:19:37



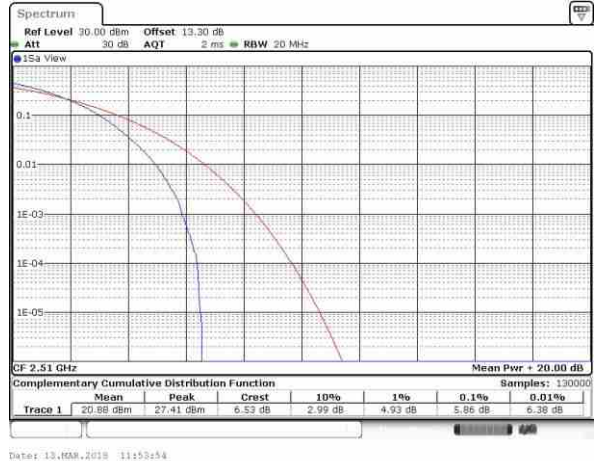
LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



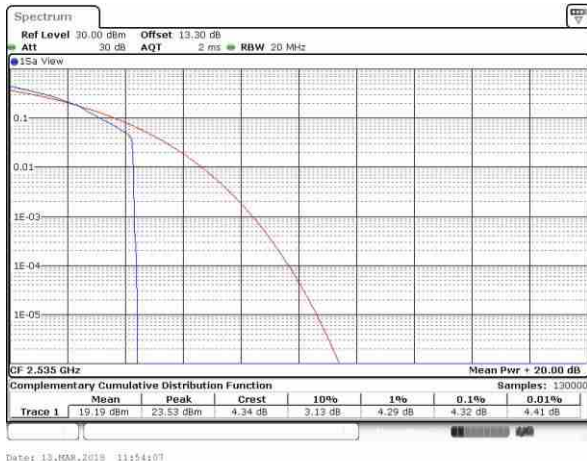
Date: 13, MAR, 2018 11:53:35

Lowest Channel / Full RB



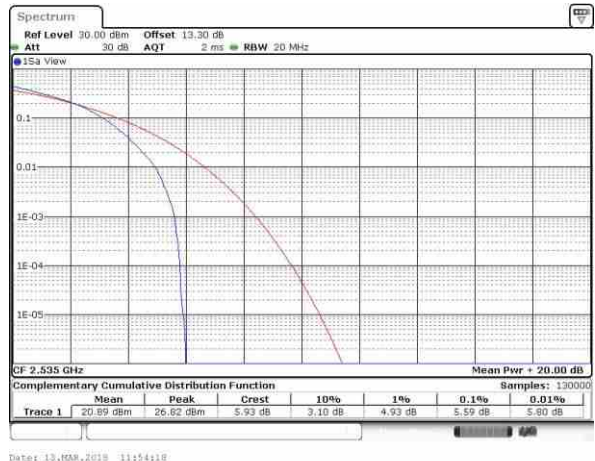
Date: 13, MAR, 2018 11:53:54

Middle Channel / 1RB



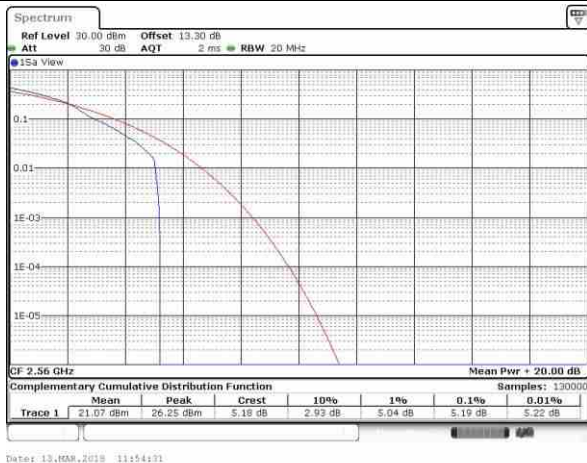
Date: 13, MAR, 2018 11:54:07

Middle Channel / Full RB



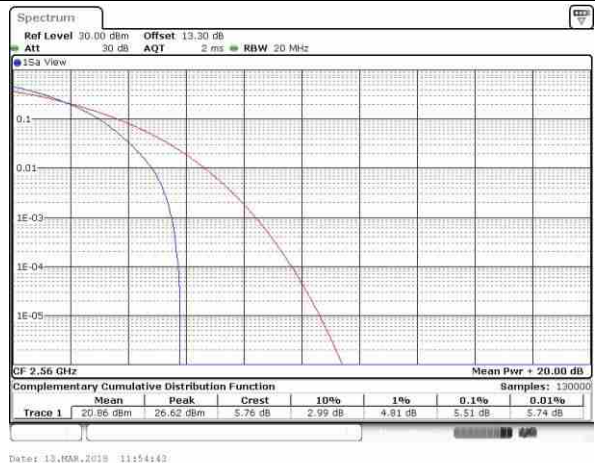
Date: 13, MAR, 2018 11:54:18

Highest Channel / 1RB



Date: 13, MAR, 2018 11:54:31

Highest Channel / Full RB

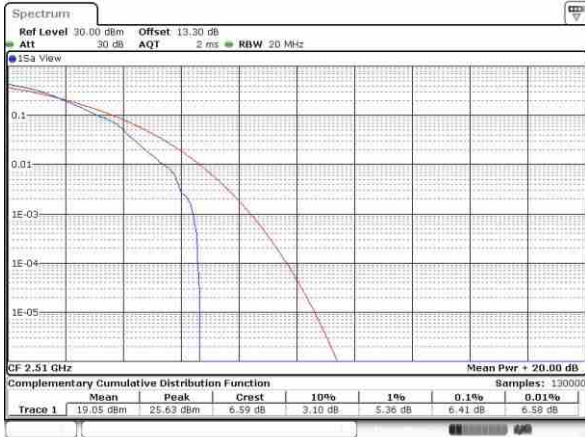


Date: 13, MAR, 2018 11:54:42



LTE Band 7 / 20MHz / 64QAM

Lowest Channel / 1RB



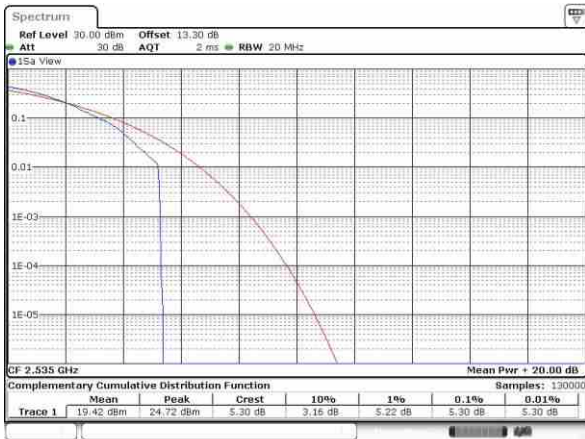
Date: 16, MAR, 2018 11:29:37

Lowest Channel / Full RB



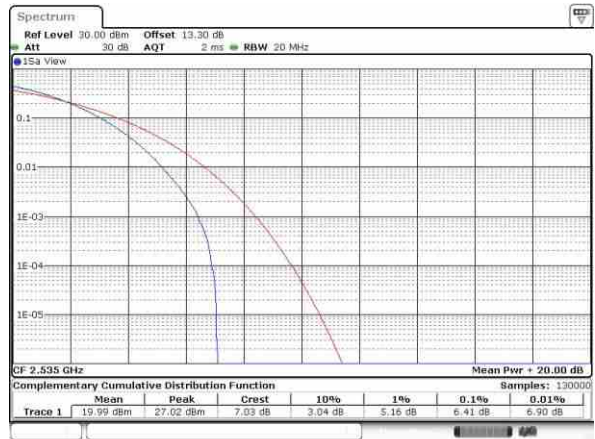
Date: 16, MAR, 2018 11:29:49

Middle Channel / 1RB



Date: 16, MAR, 2018 11:30:01

Middle Channel / Full RB



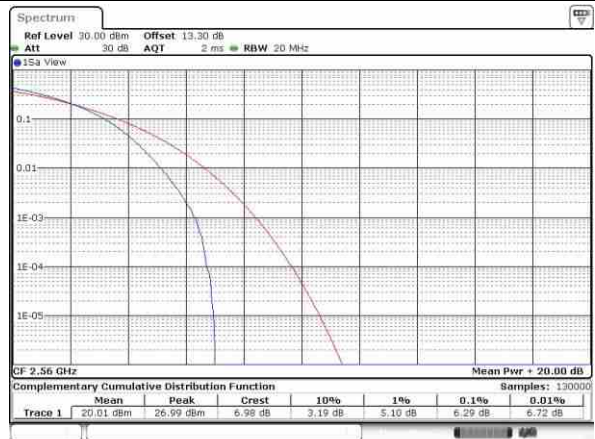
Date: 16, MAR, 2018 11:30:13

Highest Channel / 1RB



Date: 16, MAR, 2018 11:30:32

Highest Channel / Full RB



Date: 16, MAR, 2018 11:30:58



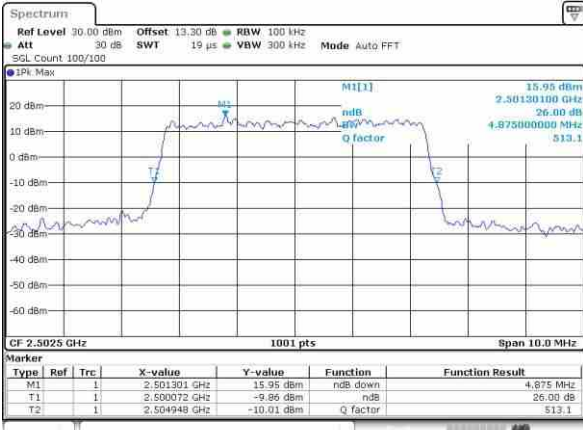
26dB Bandwidth

| Mode | LTE Band 7 : 26dB BW(MHz) | | | | | | | | | | | |
|------------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | - | - | - | - | 4.88 | 4.91 | 9.69 | 9.91 | 14.18 | 14.45 | 20.38 | 20.26 |
| Middle CH | - | - | - | - | 4.90 | 4.94 | 9.79 | 9.65 | 14.42 | 14.27 | 20.18 | 20.54 |
| Highest CH | - | - | - | - | 4.93 | 4.97 | 9.79 | 9.83 | 14.57 | 14.33 | 20.18 | 20.02 |
| Mode | LTE Band 7 : 26dB BW(MHz) | | | | | | | | | | | |
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | |
| Lowest CH | - | - | - | - | 5.00 | - | 9.85 | - | 14.36 | - | 20.06 | - |
| Middle CH | - | - | - | - | 4.97 | - | 9.81 | - | 14.21 | - | 20.18 | - |
| Highest CH | - | - | - | - | 4.98 | - | 9.75 | - | 14.30 | - | 20.06 | - |



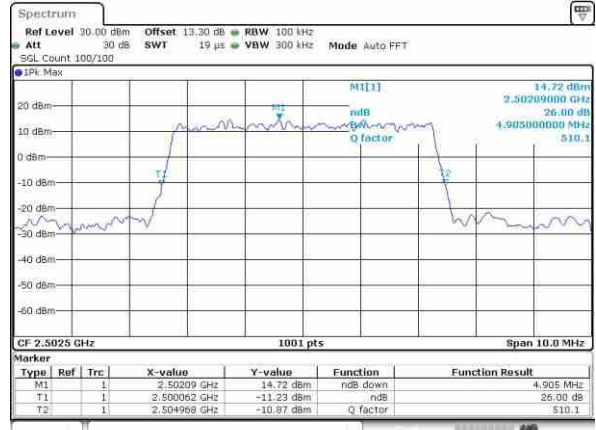
LTE Band 7

Lowest Channel / 5MHz / QPSK



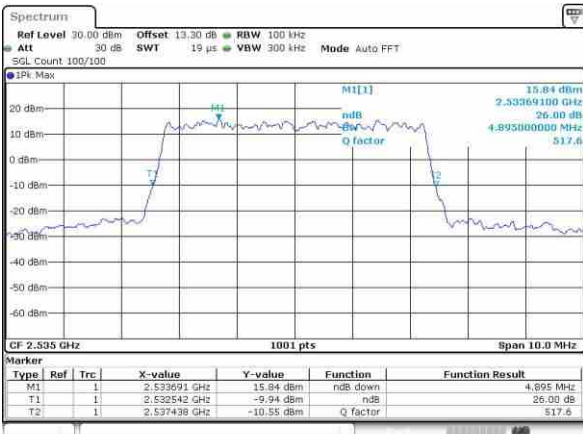
Date: 13, MAR, 2018 11:39:00

Lowest Channel / 5MHz / 16QAM



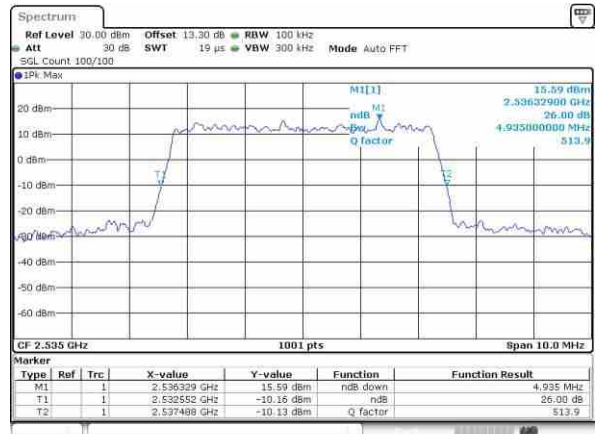
Date: 13, MAR, 2018 11:39:11

Middle Channel / 5MHz / QPSK



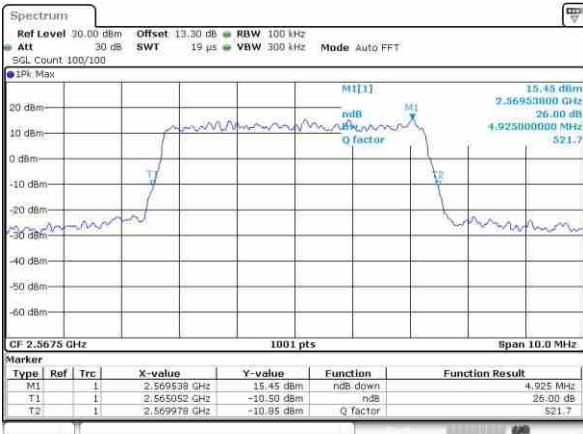
Date: 13, MAR, 2018 11:39:47

Middle Channel / 5MHz / 16QAM



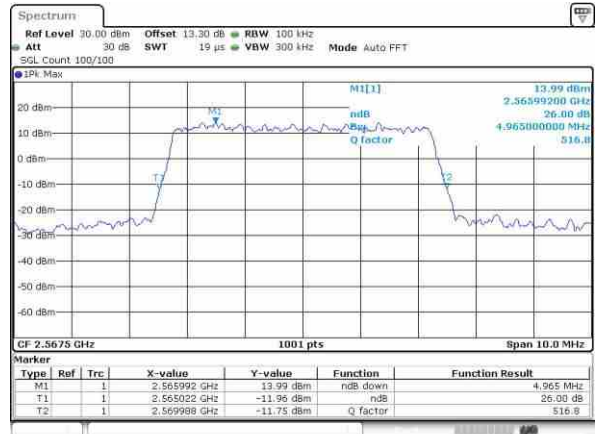
Date: 13, MAR, 2018 11:39:59

Highest Channel / 5MHz / QPSK



Date: 13, MAR, 2018 11:40:34

Highest Channel / 5MHz / 16QAM

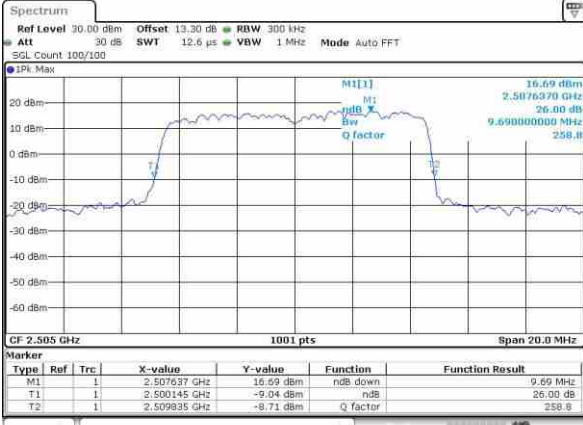


Date: 13, MAR, 2018 11:40:46



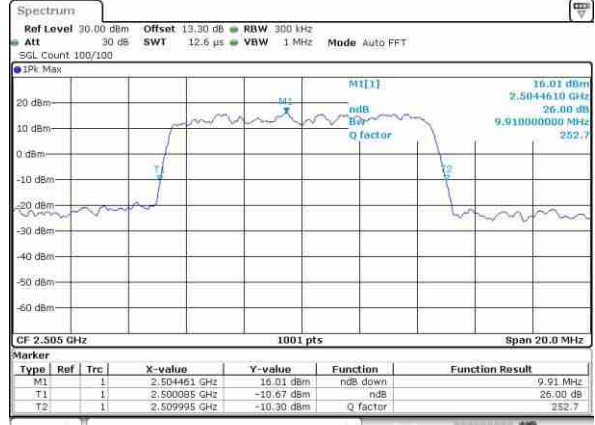
LTE Band 7

Lowest Channel / 10MHz / QPSK



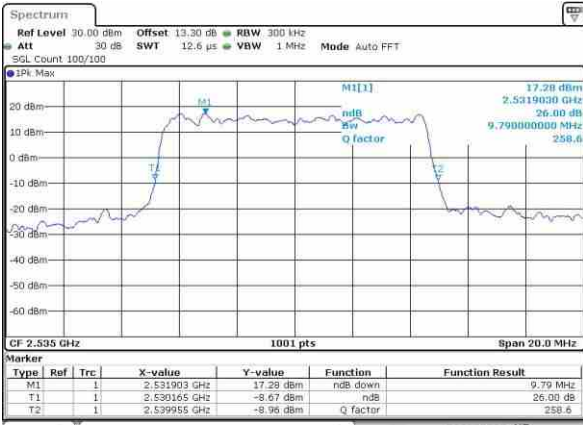
Date: 13, MAR, 2018 11:41:21

Lowest Channel / 10MHz / 16QAM



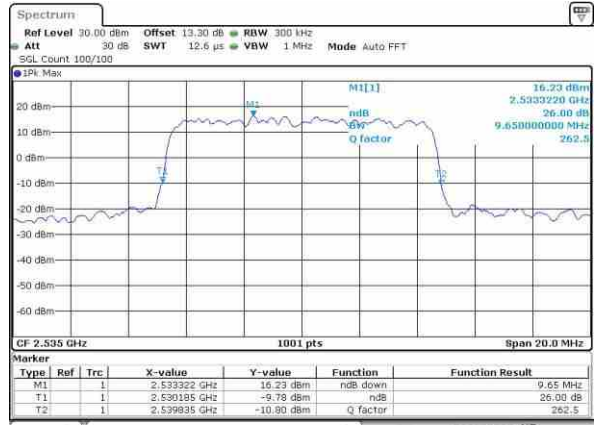
Date: 13, MAR, 2018 11:41:32

Middle Channel / 10MHz / QPSK



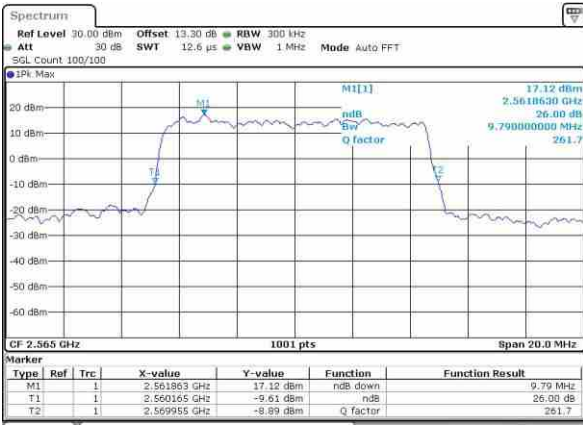
Date: 13, MAR, 2018 11:42:08

Middle Channel / 10MHz / 16QAM



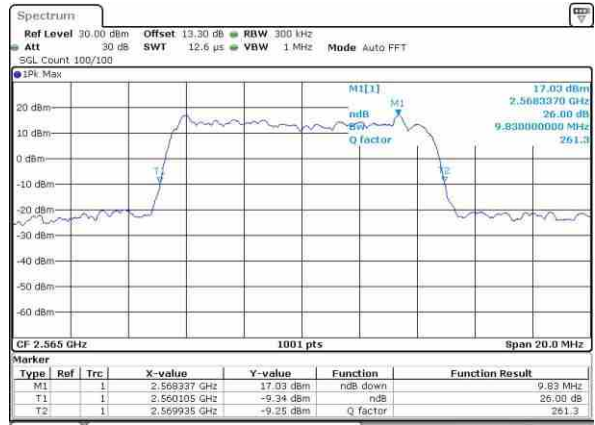
Date: 13, MAR, 2018 11:42:09

Highest Channel / 10MHz / QPSK



Date: 13, MAR, 2018 11:42:55

Highest Channel / 10MHz / 16QAM

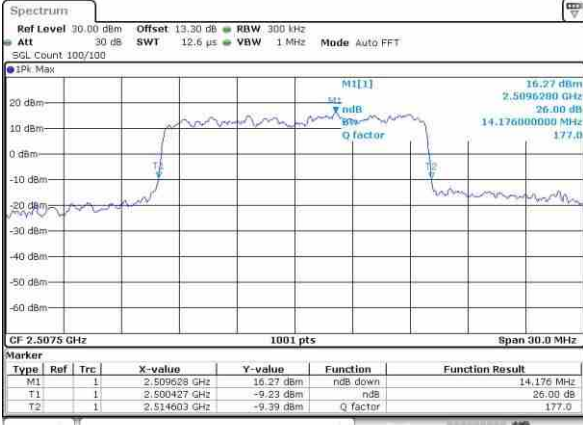


Date: 13, MAR, 2018 11:43:07



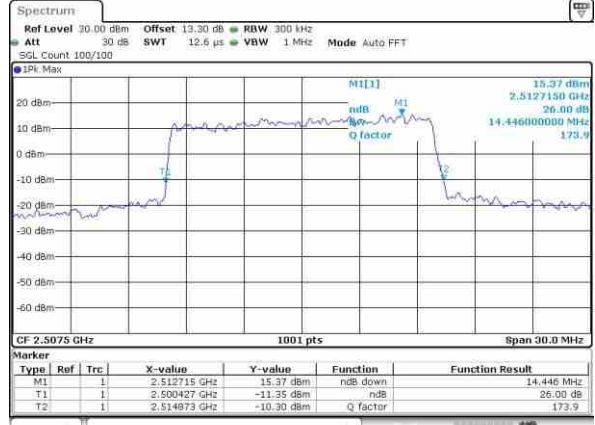
LTE Band 7

Lowest Channel / 15MHz / QPSK



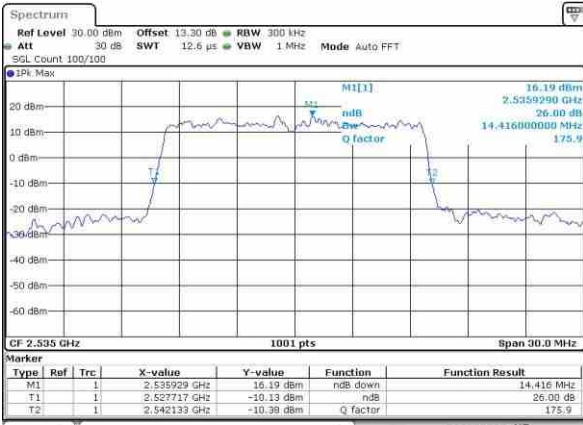
Date: 13, MAR, 2018 11:43:42

Lowest Channel / 15MHz / 16QAM



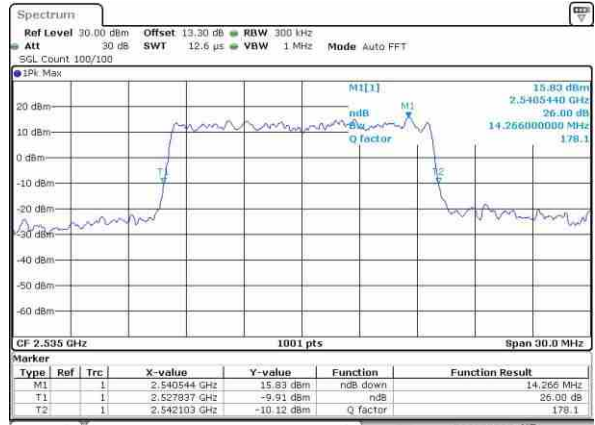
Date: 13, MAR, 2018 11:43:54

Middle Channel / 15MHz / QPSK



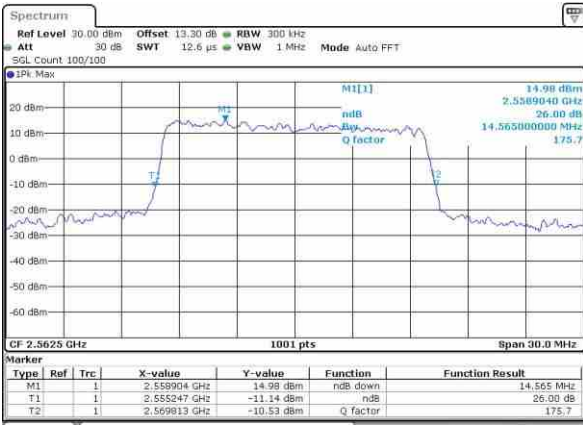
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Middle Channel / 15MHz / 16QAM



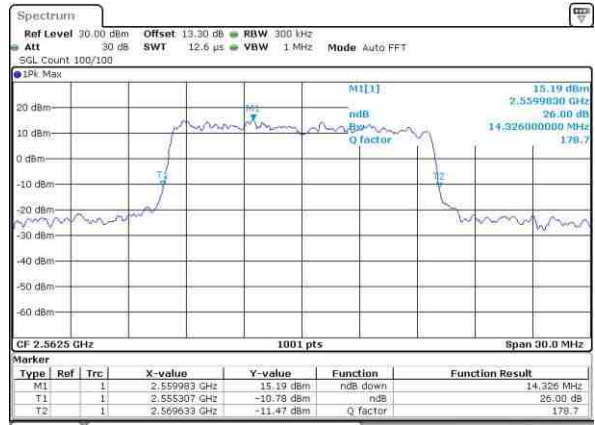
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Highest Channel / 15MHz / QPSK



Date: 13, MAR, 2018 11:45:17

Highest Channel / 15MHz / 16QAM

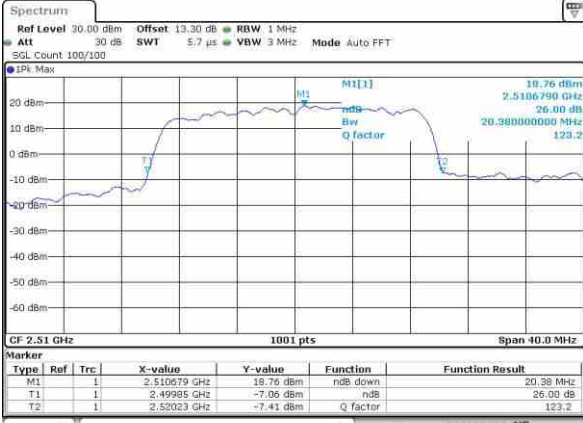


Date: 13, MAR, 2018 11:45:28



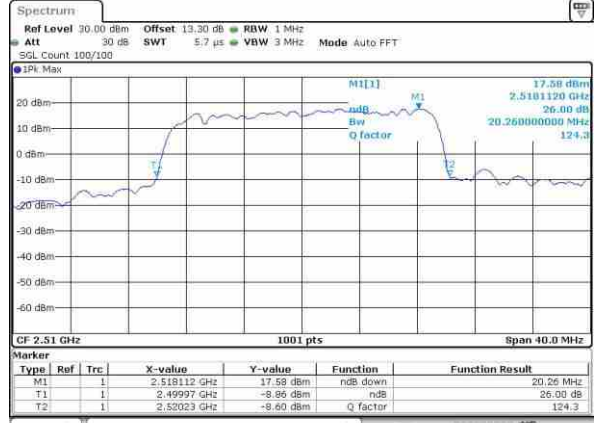
LTE Band 7

Lowest Channel / 20MHz / QPSK



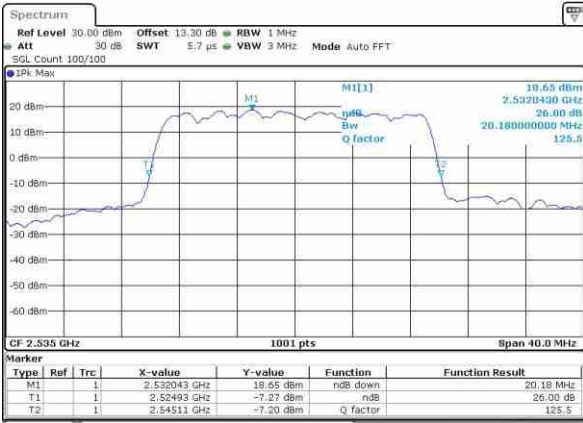
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Lowest Channel / 20MHz / 16QAM



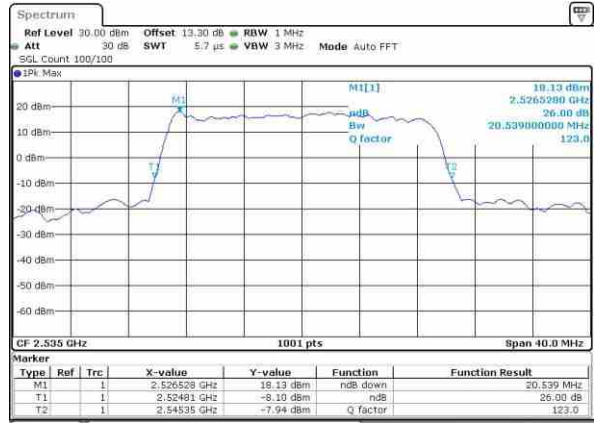
Date: 13, MAR, 2018 11:46:16

Middle Channel / 20MHz / QPSK



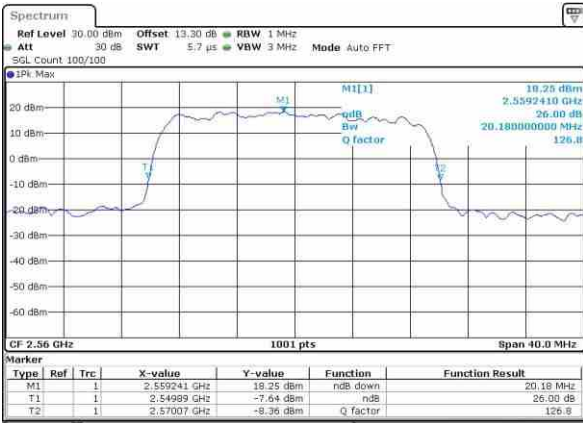
Date: 13, MAR, 2018 11:46:51

Middle Channel / 20MHz / 16QAM



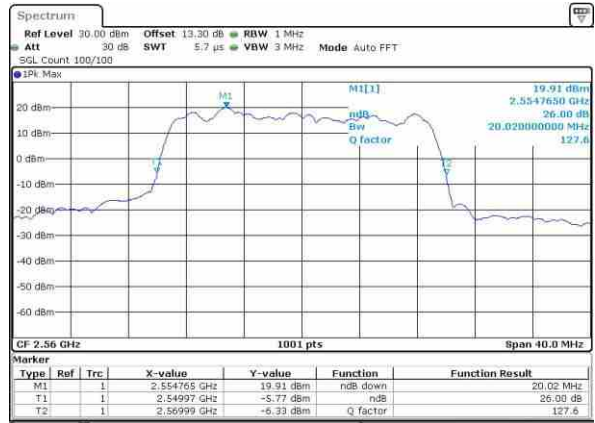
Date: 13, MAR, 2018 11:47:02

Highest Channel / 20MHz / QPSK



Date: 13, MAR, 2018 11:47:38

Highest Channel / 20MHz / 16QAM

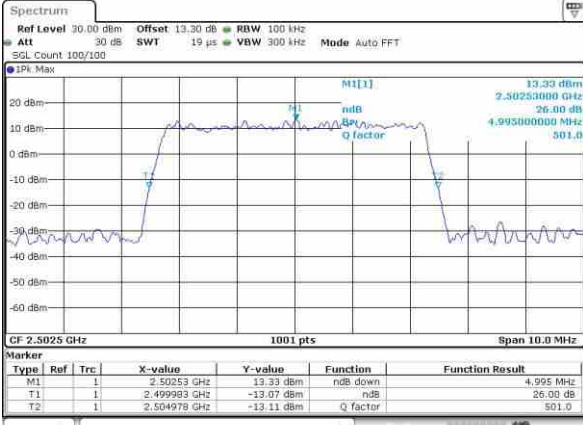


Date: 13, MAR, 2018 11:47:50



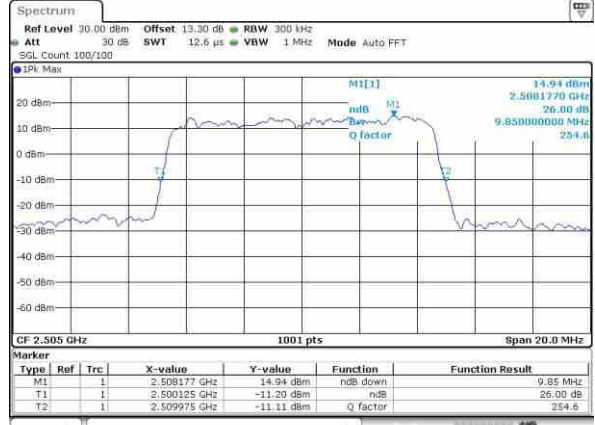
LTE Band 7

Lowest Channel / 5MHz / 64QAM



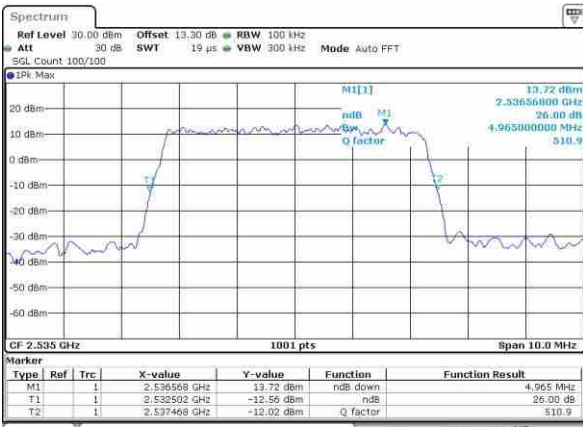
Date: 16, MAR, 2018 10:27:59

Lowest Channel / 10MHz / 64QAM



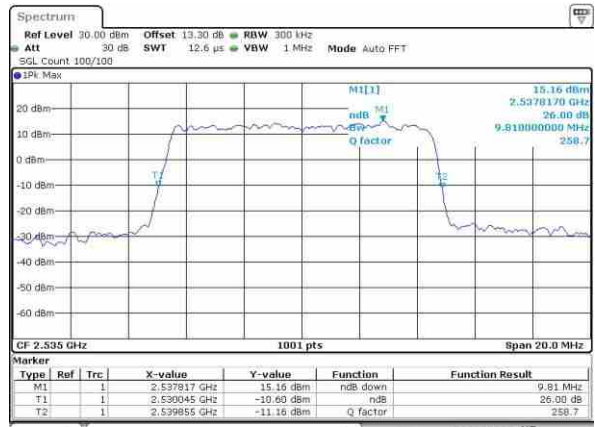
Date: 16, MAR, 2018 10:36:47

Middle Channel / 5MHz / 64QAM



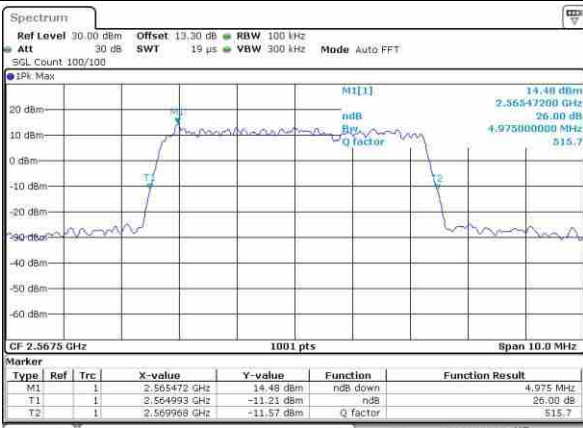
Date: 16, MAR, 2018 10:33:42

Middle Channel / 10MHz / 64QAM



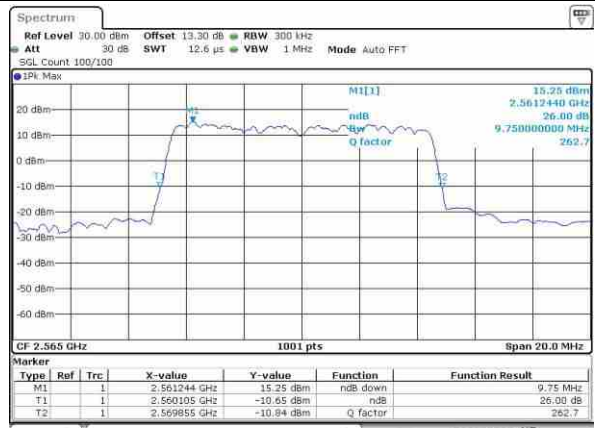
Date: 16, MAR, 2018 10:41:38

Highest Channel / 5MHz / 64QAM



Date: 16, MAR, 2018 10:33:04

Highest Channel / 10MHz / 64QAM

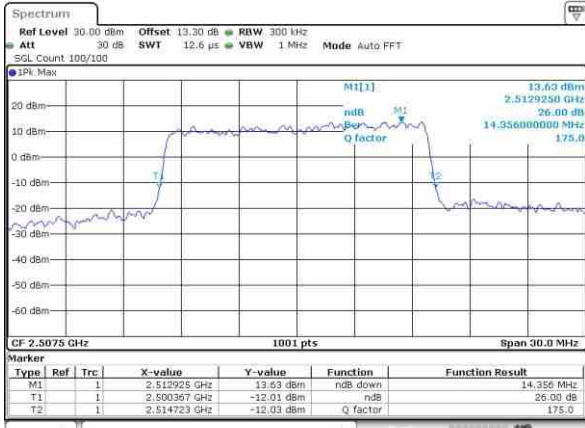


Date: 16, MAR, 2018 10:43:00



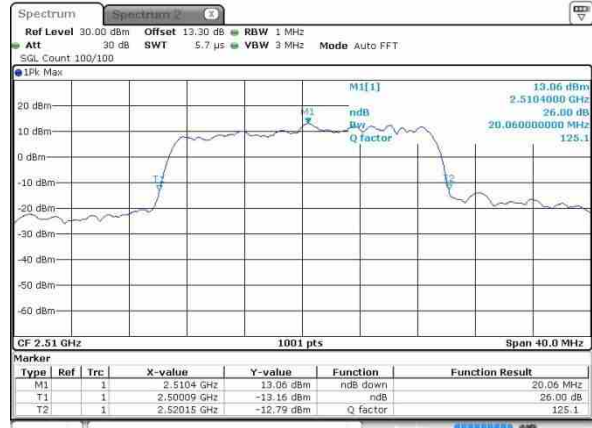
LTE Band 7

Lowest Channel / 15MHz / 64QAM



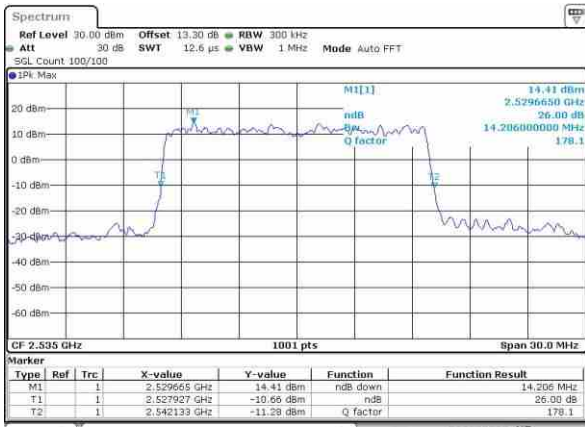
Date: 16/MAR/2018 10:16:43

Lowest Channel / 20MHz / 64QAM



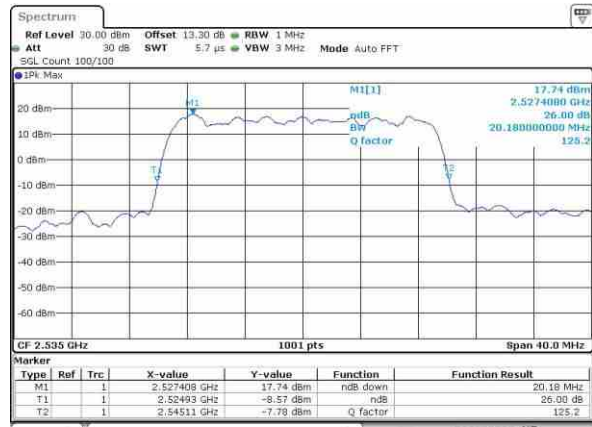
Date: 27 MAR 2018 00:07:59

Middle Channel / 15MHz / 64QAM



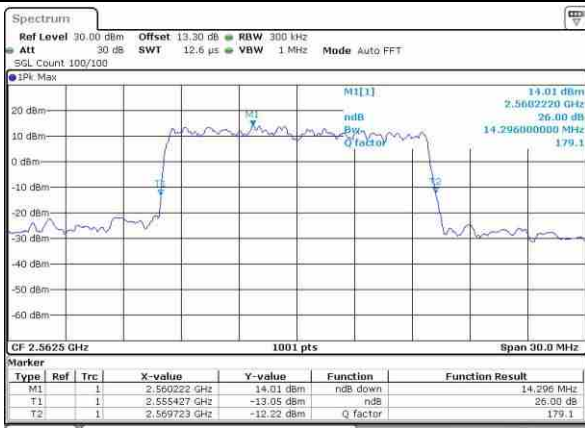
Date: 16/MAR/2018 10:55:25

Middle Channel / 20MHz / 64QAM



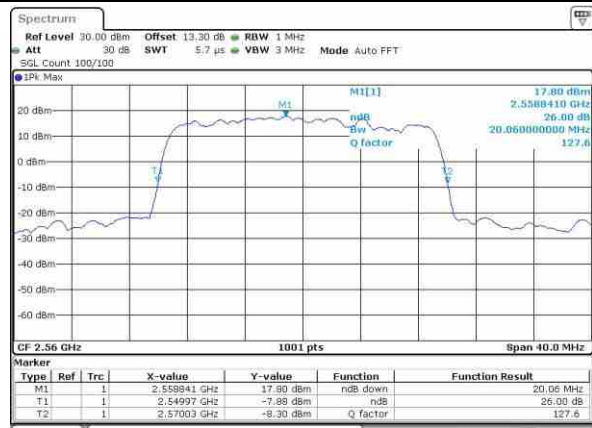
Date: 16/MAR/2018 11:24:40

Highest Channel / 15MHz / 64QAM



Date: 16/MAR/2018 10:51:51

Highest Channel / 20MHz / 64QAM



Date: 16/MAR/2018 11:26:02



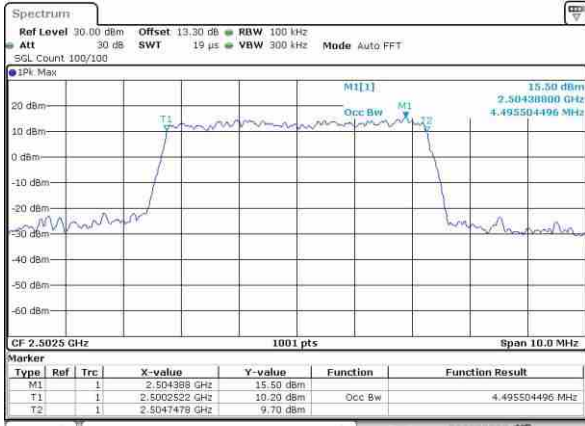
Occupied Bandwidth

| Mode | LTE Band 7 : 99%OBW(MHz) | | | | | | | | | | | |
|------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | - | - | - | - | 4.5 | 4.48 | 9.01 | 9.01 | 13.46 | 13.43 | 18.38 | 18.46 |
| Middle CH | - | - | - | - | 4.48 | 4.5 | 9.03 | 9.03 | 13.43 | 13.55 | 18.38 | 18.26 |
| Highest CH | - | - | - | - | 4.5 | 4.47 | 9.03 | 8.99 | 13.49 | 13.46 | 18.18 | 18.3 |
| Mode | LTE Band 7 : 99%OBW(MHz) | | | | | | | | | | | |
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | |
| Lowest CH | - | - | - | - | 4.48 | - | 9.01 | - | 13.43 | - | 18.42 | - |
| Middle CH | - | - | - | - | 4.51 | - | 8.99 | - | 13.40 | - | 18.30 | - |
| Highest CH | - | - | - | - | 4.49 | - | 9.09 | - | 13.40 | - | 18.10 | - |



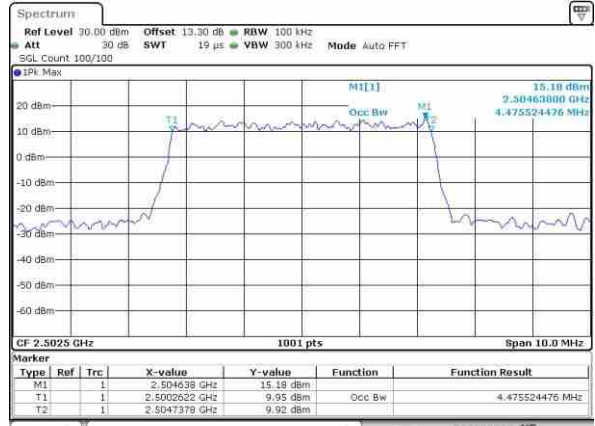
LTE Band 7

Lowest Channel / 5MHz / QPSK



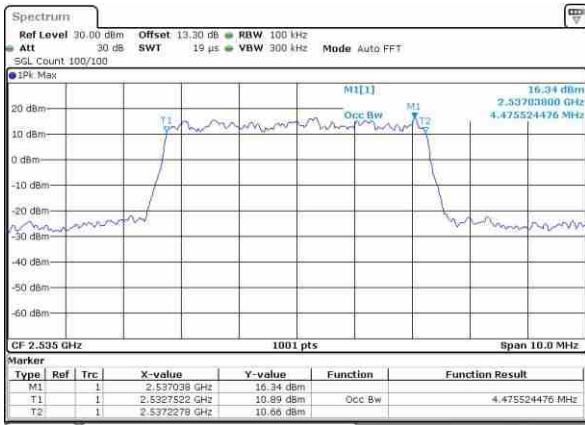
Date: 13, MAR, 2018 11:38:36

Lowest Channel / 5MHz / 16QAM



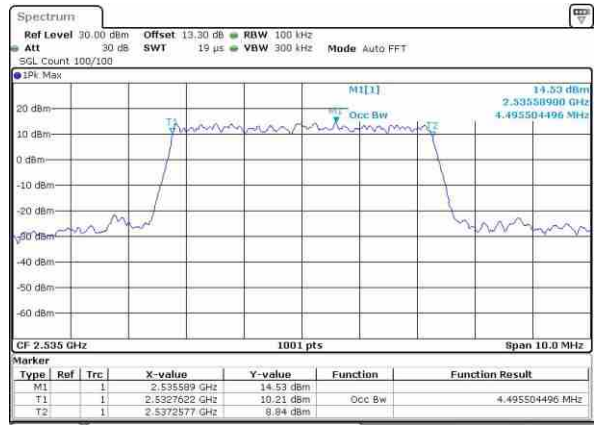
Date: 13, MAR, 2018 11:38:48

Middle Channel / 5MHz / QPSK



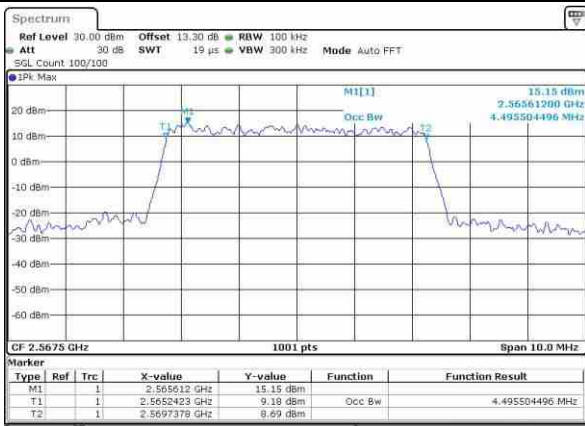
Date: 13, MAR, 2018 11:39:23

Middle Channel / 5MHz / 16QAM



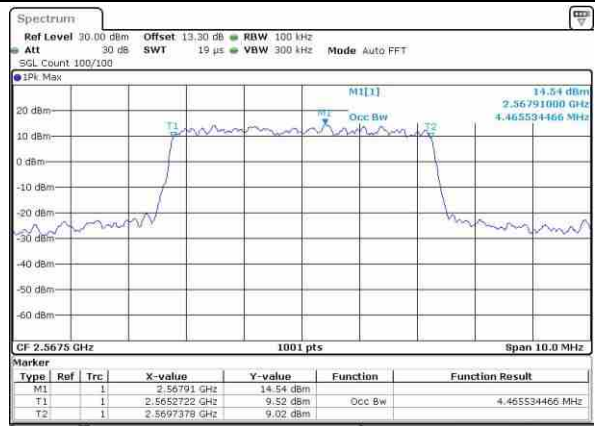
Date: 13, MAR, 2018 11:39:35

Highest Channel / 5MHz / QPSK



Date: 13, MAR, 2018 11:40:10

Highest Channel / 5MHz / 16QAM

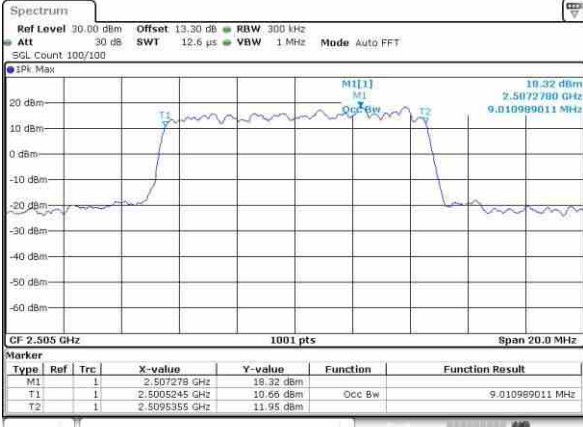


Date: 13, MAR, 2018 11:40:22



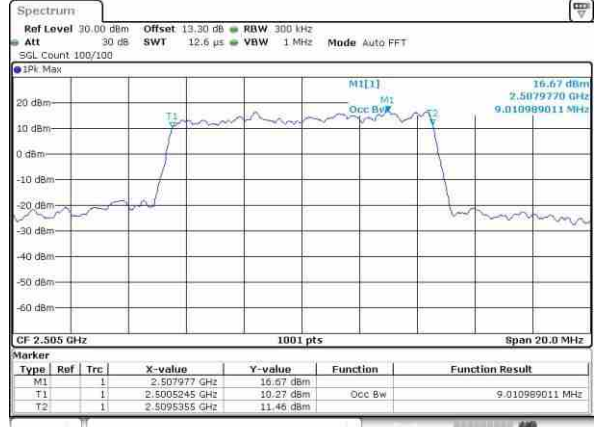
LTE Band 7

Lowest Channel / 10MHz / QPSK



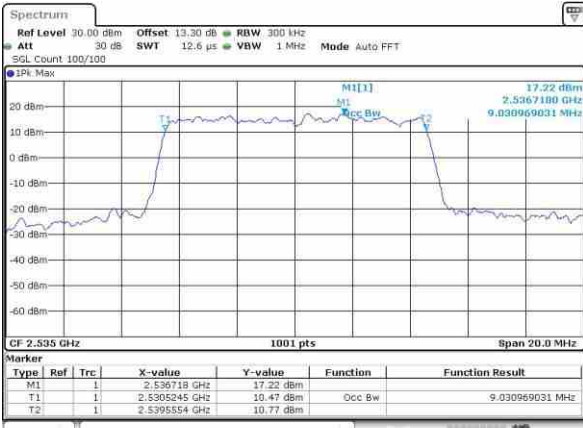
Date: 13, MAR, 2018 11:40:58

Lowest Channel / 10MHz / 16QAM



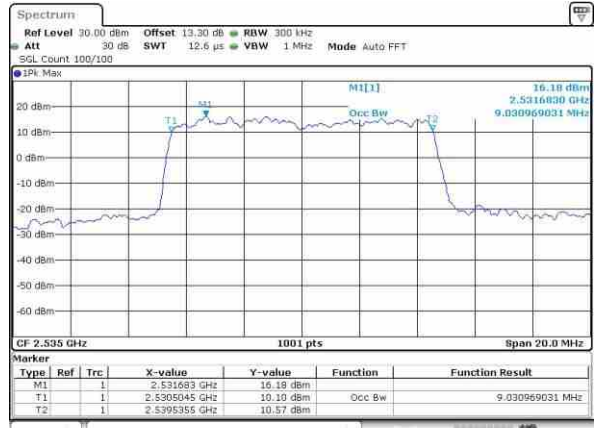
Date: 13, MAR, 2018 11:41:09

Middle Channel / 10MHz / QPSK



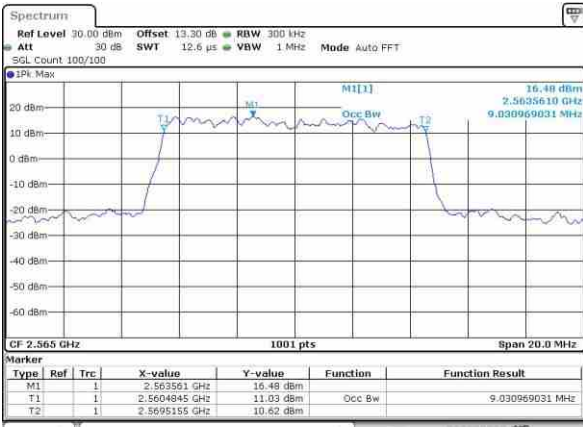
Date: 13, MAR, 2018 11:41:45

Middle Channel / 10MHz / 16QAM



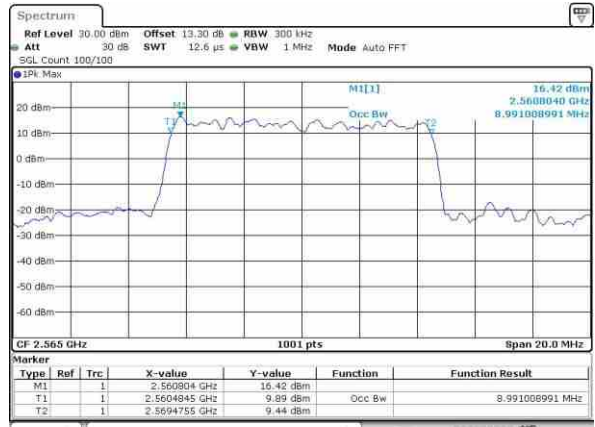
Date: 13, MAR, 2018 11:41:56

Highest Channel / 10MHz / QPSK



Date: 13, MAR, 2018 11:42:32

Highest Channel / 10MHz / 16QAM

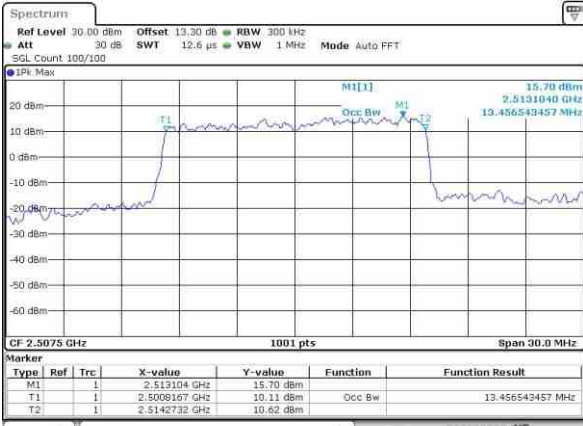


Date: 13, MAR, 2018 11:42:48



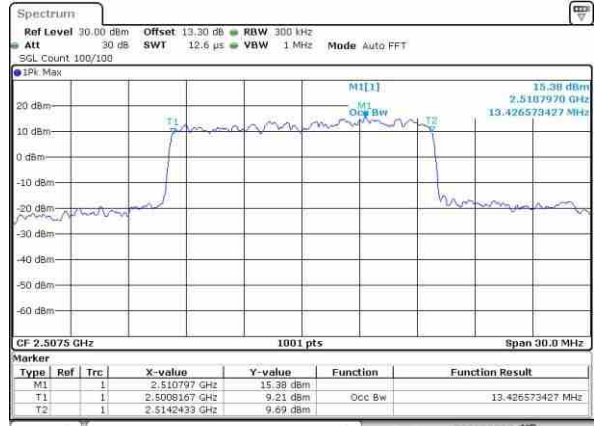
LTE Band 7

Lowest Channel / 15MHz / QPSK



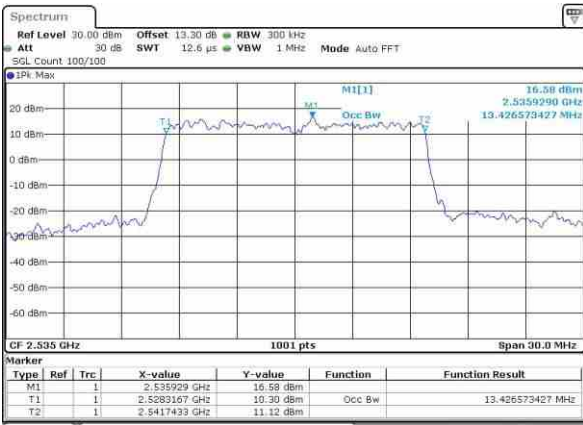
Date: 13, MAR, 2018 11:43:19

Lowest Channel / 15MHz / 16QAM



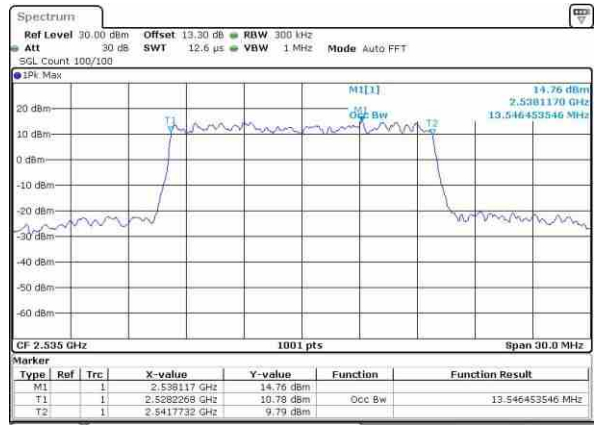
Date: 13, MAR, 2018 11:43:31

Middle Channel / 15MHz / QPSK



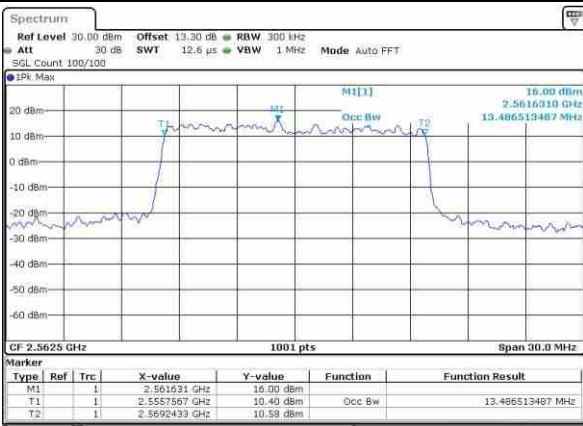
Date: 13, MAR, 2018 11:44:06

Middle Channel / 15MHz / 16QAM



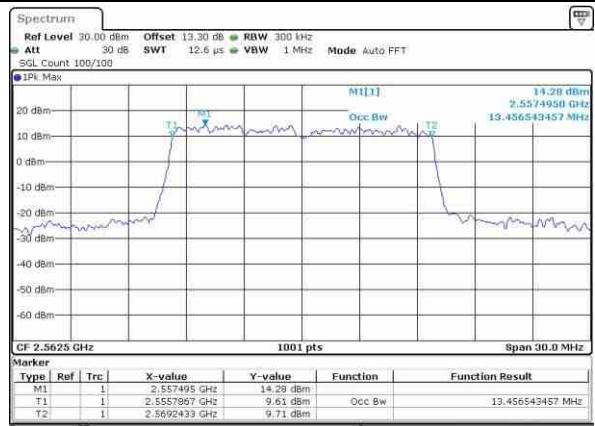
Date: 13, MAR, 2018 11:44:18

Highest Channel / 15MHz / QPSK



Date: 13, MAR, 2018 11:44:53

Highest Channel / 15MHz / 16QAM

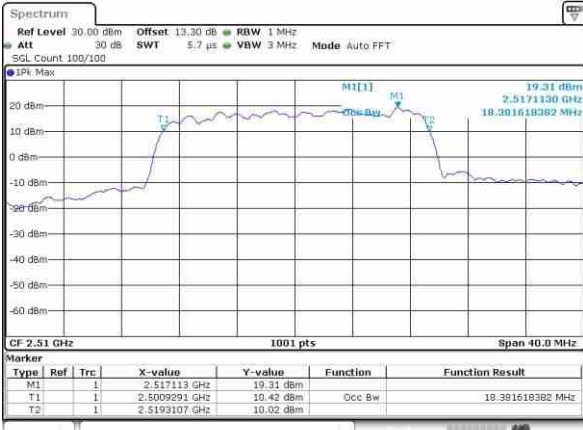


Date: 13, MAR, 2018 11:44:05



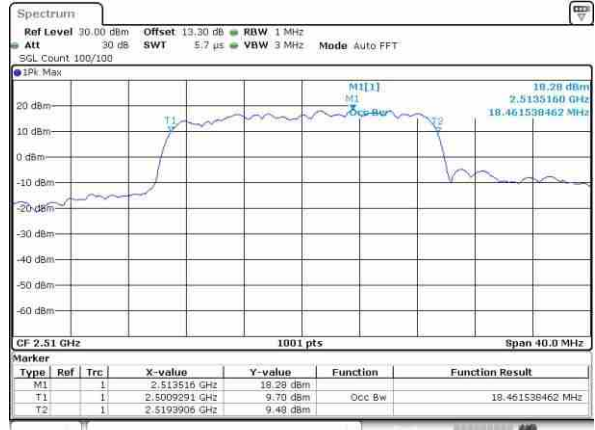
LTE Band 7

Lowest Channel / 20MHz / QPSK



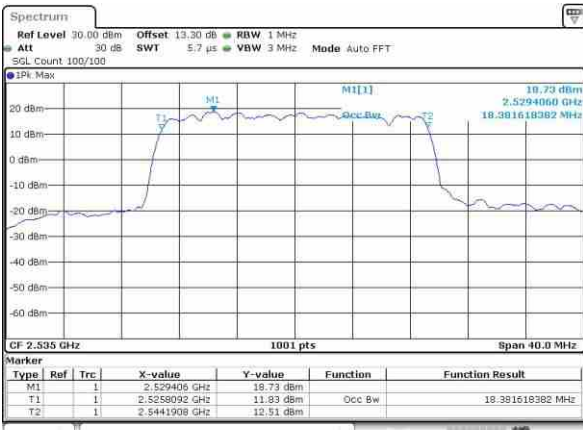
Date: 13, MAR, 2018 11:45:40

Lowest Channel / 20MHz / 16QAM



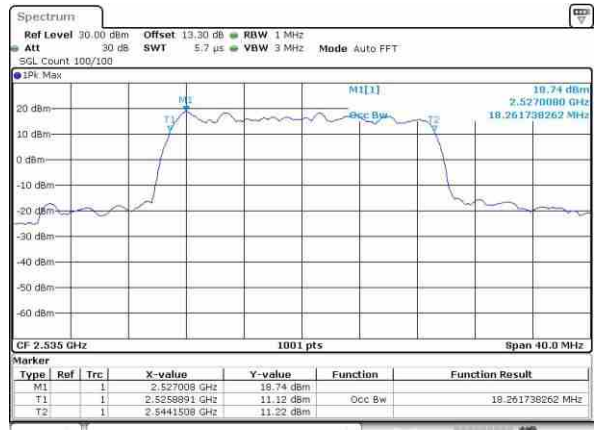
Date: 13, MAR, 2018 11:45:52

Middle Channel / 20MHz / QPSK



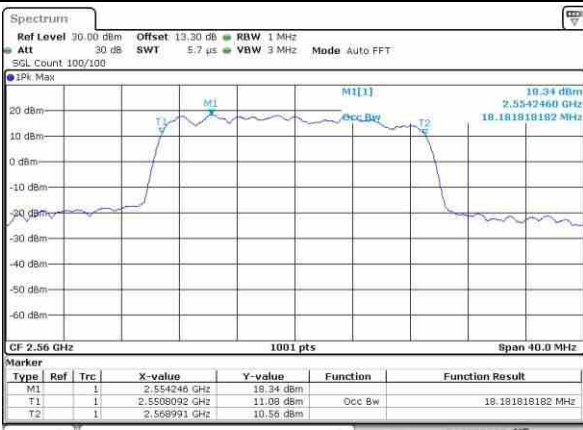
Date: 13, MAR, 2018 11:46:27

Middle Channel / 20MHz / 16QAM



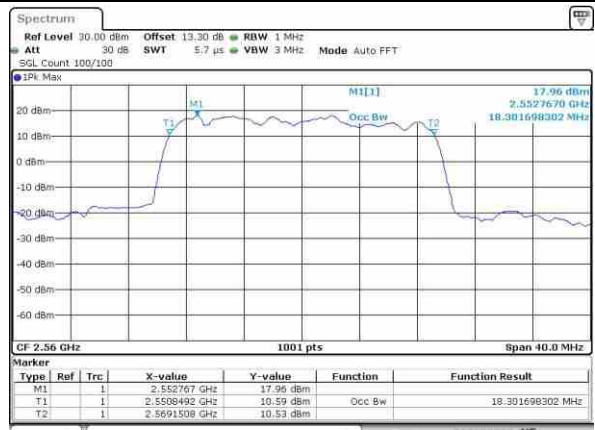
Date: 13, MAR, 2018 11:46:39

Highest Channel / 20MHz / QPSK



Date: 13, MAR, 2018 11:47:14

Highest Channel / 20MHz / 16QAM

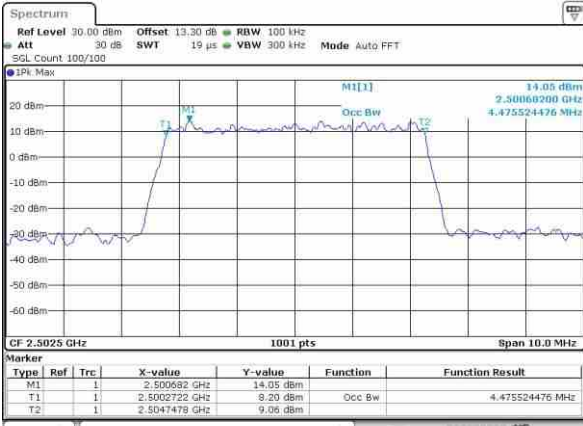


Date: 13, MAR, 2018 11:47:26



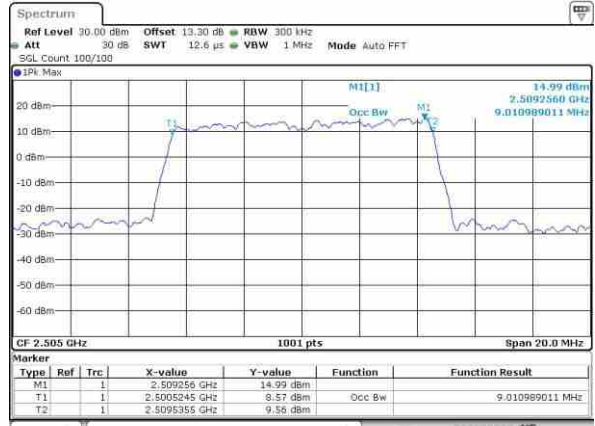
LTE Band 7

Lowest Channel / 5MHz / 64QAM



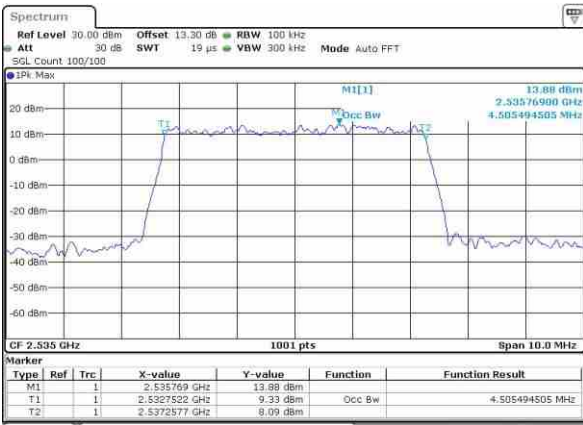
Date: 16, MAR, 2018 10:27:47

Lowest Channel / 10MHz / 64QAM



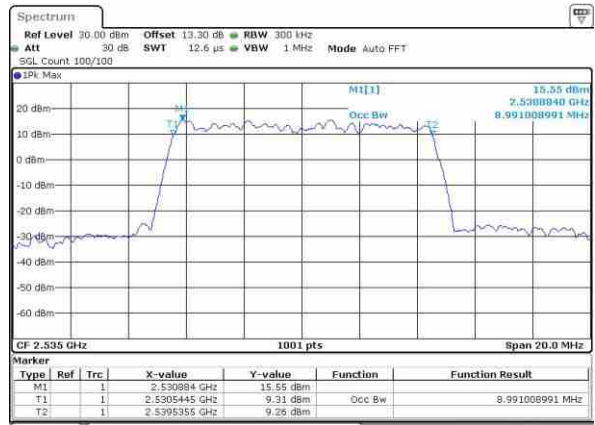
Date: 16, MAR, 2018 10:38:35

Middle Channel / 5MHz / 64QAM



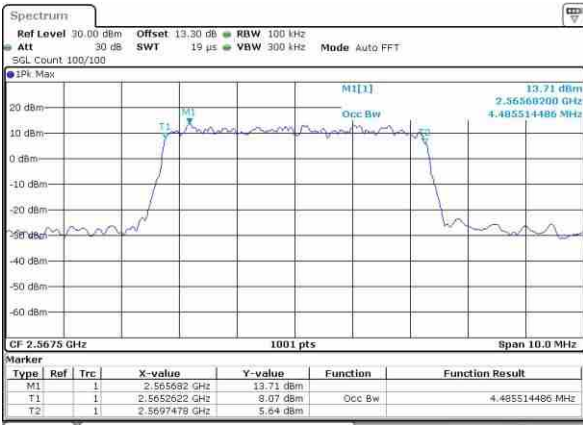
Date: 16, MAR, 2018 10:33:30

Middle Channel / 10MHz / 64QAM



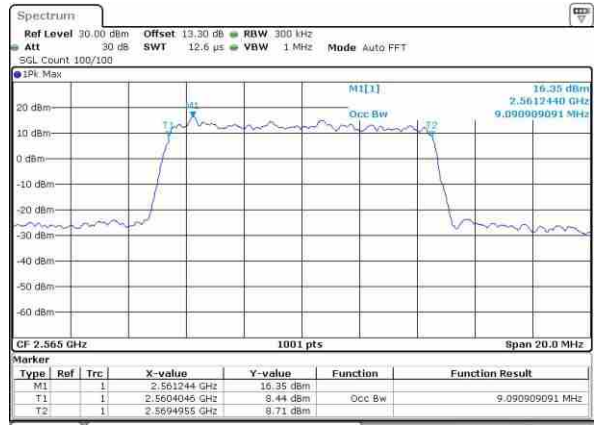
Date: 16, MAR, 2018 10:41:26

Highest Channel / 5MHz / 64QAM



Date: 16, MAR, 2018 10:32:52

Highest Channel / 10MHz / 64QAM

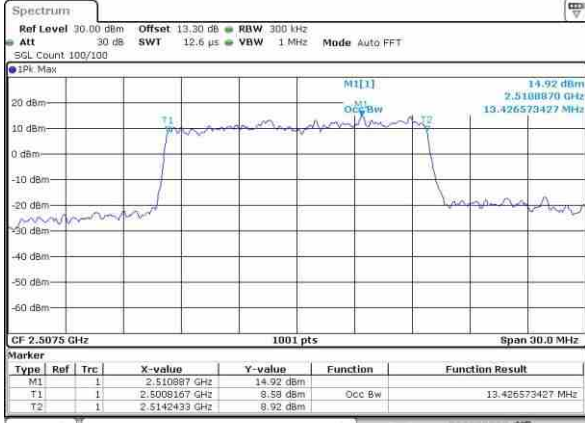


Date: 16, MAR, 2018 10:42:48



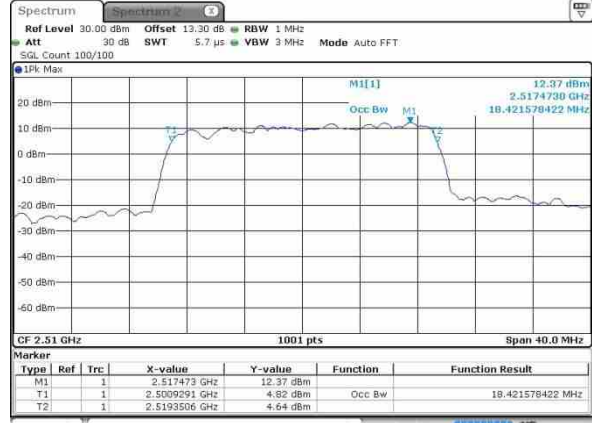
LTE Band 7

Lowest Channel / 15MHz / 64QAM



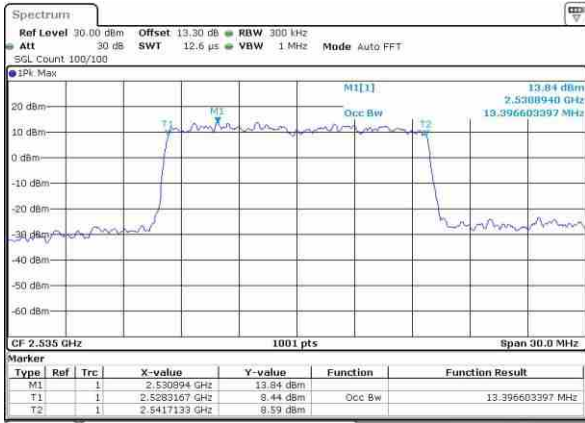
Date: 16/MAR/2018 10:46:31

Lowest Channel / 20MHz / 64QAM



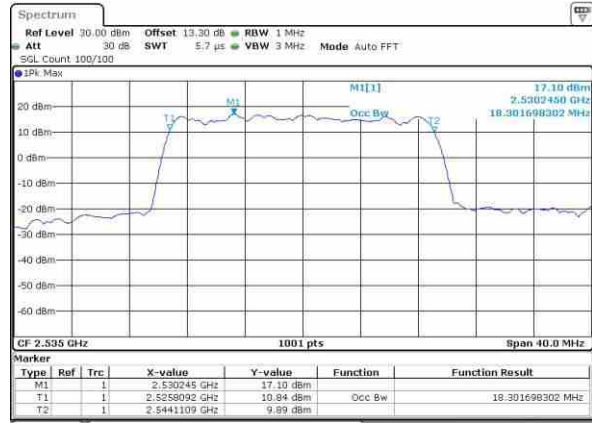
Date: 27 MAR 2018 00:08:11

Middle Channel / 15MHz / 64QAM



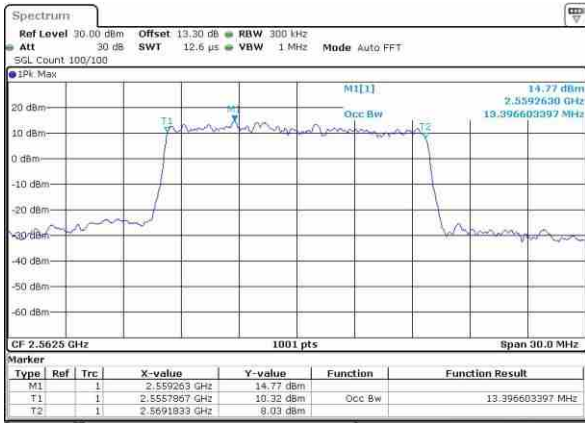
Date: 16/MAR/2018 10:58:13

Middle Channel / 20MHz / 64QAM



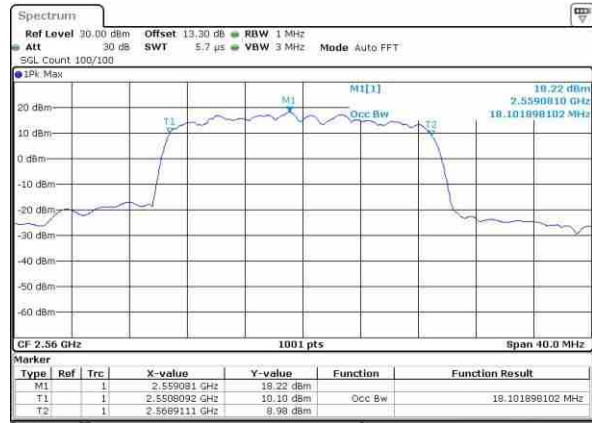
Date: 16/MAR/2018 11:24:28

Highest Channel / 15MHz / 64QAM



Date: 16/MAR/2018 10:51:35

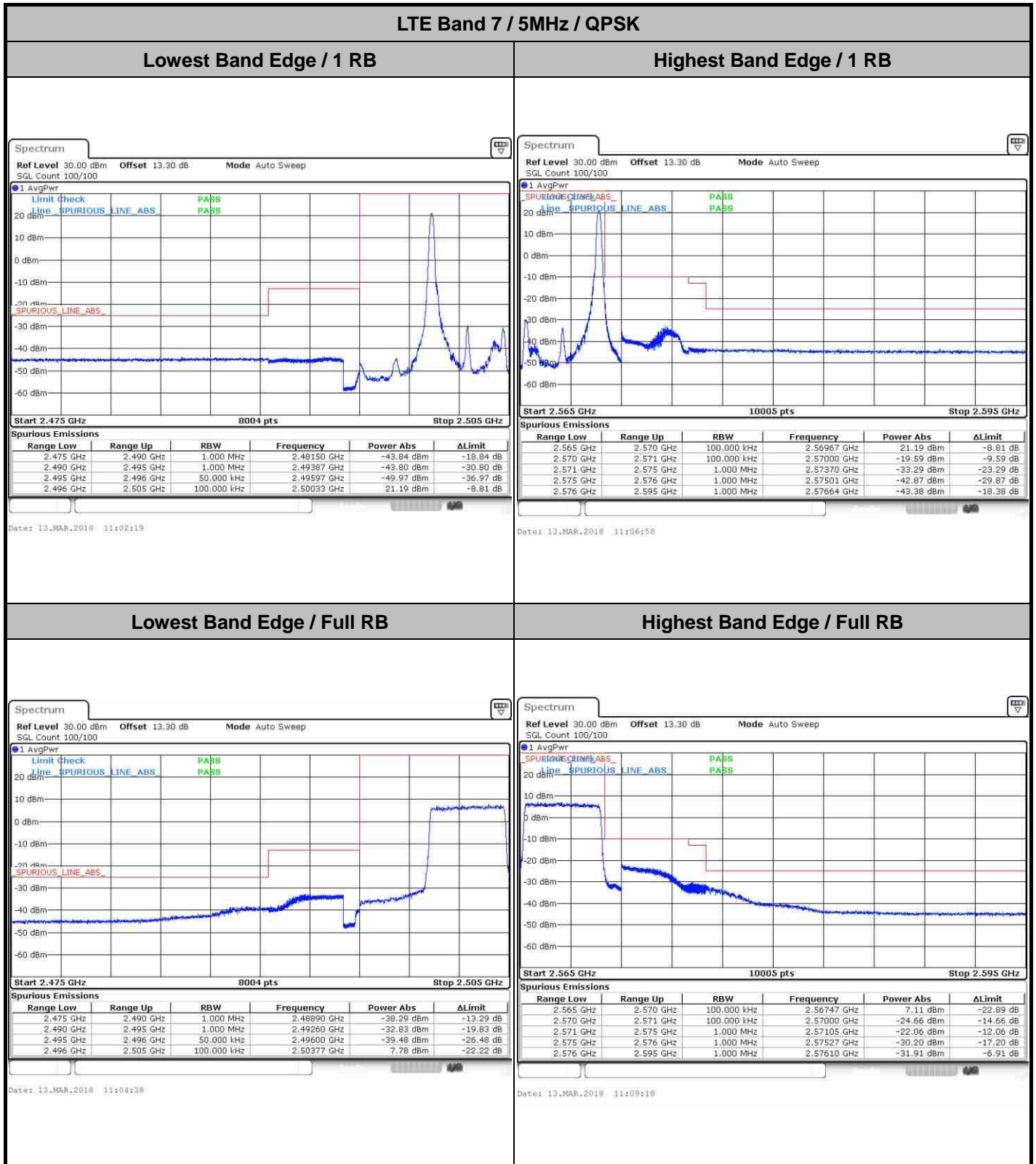
Highest Channel / 20MHz / 64QAM



Date: 16/MAR/2018 11:25:50



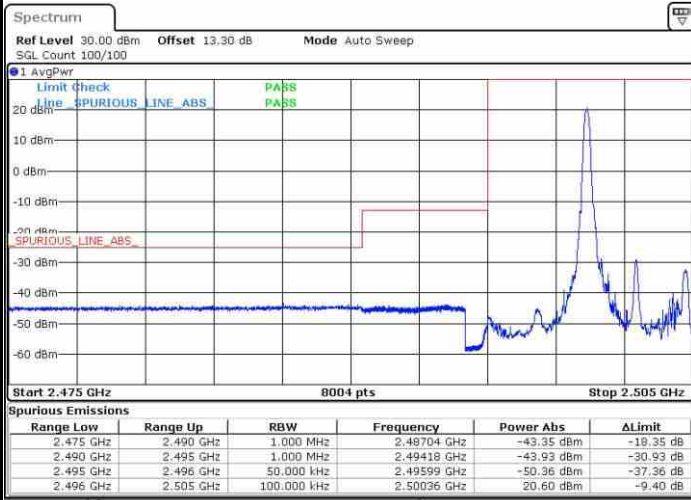
Conducted Band Edge





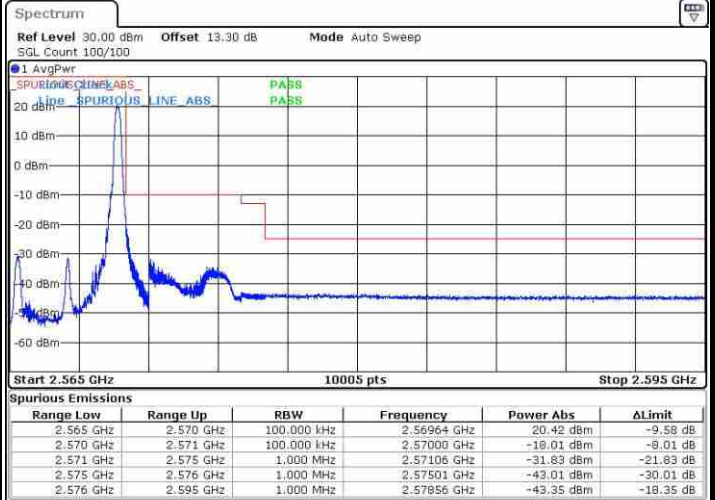
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



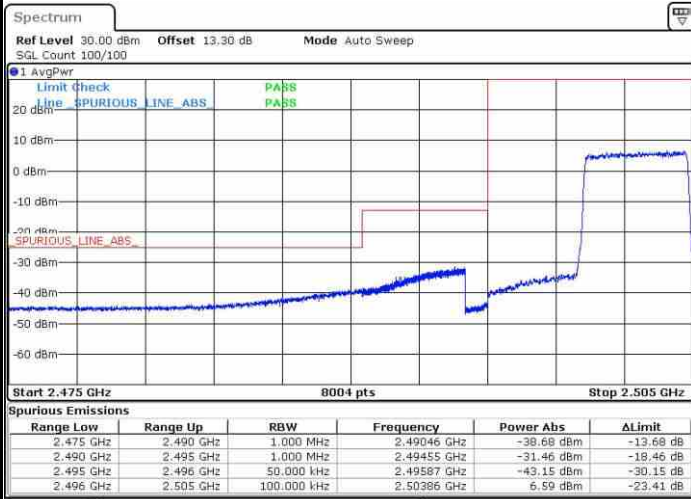
Date: 13.MAR.2019 11:03:28

Highest Band Edge / 1 RB



Date: 13.MAR.2019 11:08:07

Lowest Band Edge / Full RB



Date: 13.MAR.2019 11:05:49

Highest Band Edge / Full RB

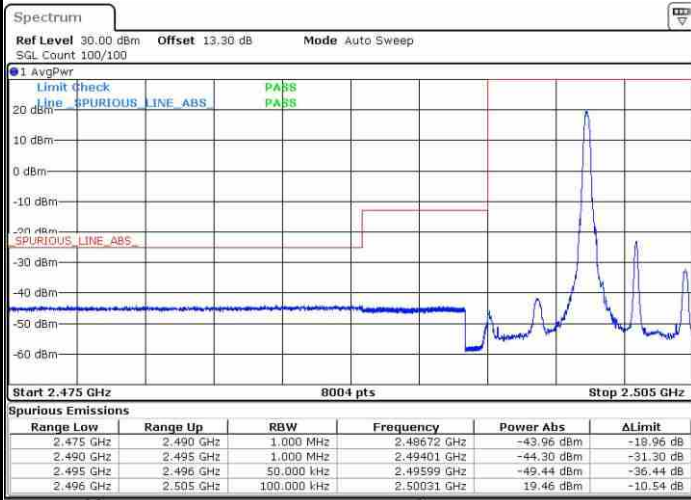


Date: 13.MAR.2019 11:10:27

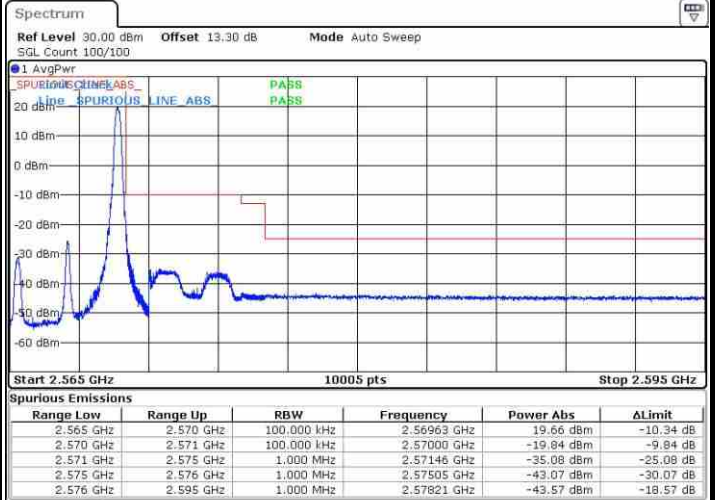


LTE Band 7 / 5MHz / 64QAM

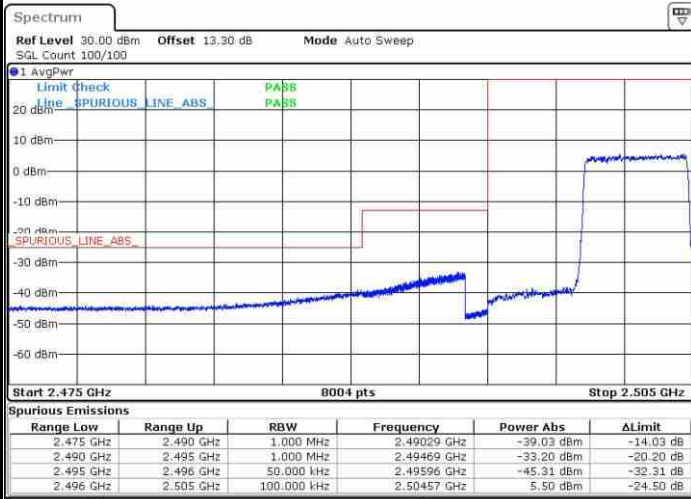
Lowest Band Edge / 1RB



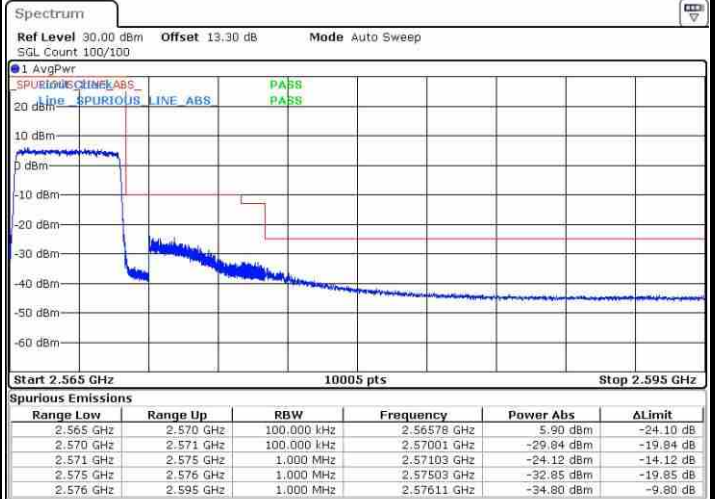
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



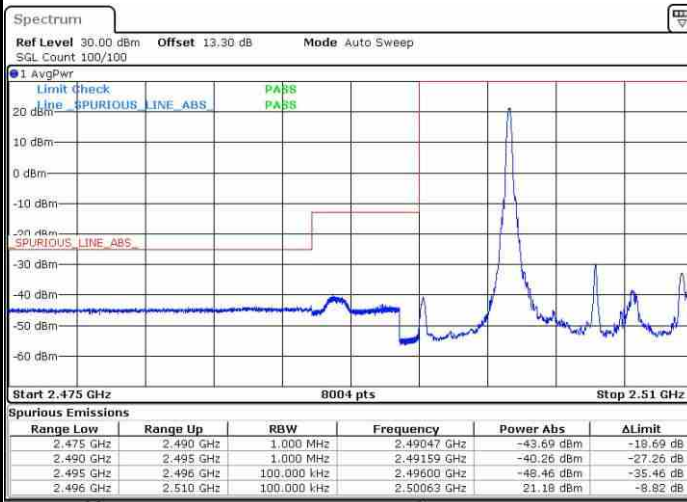
Highest Band Edge / Full RB





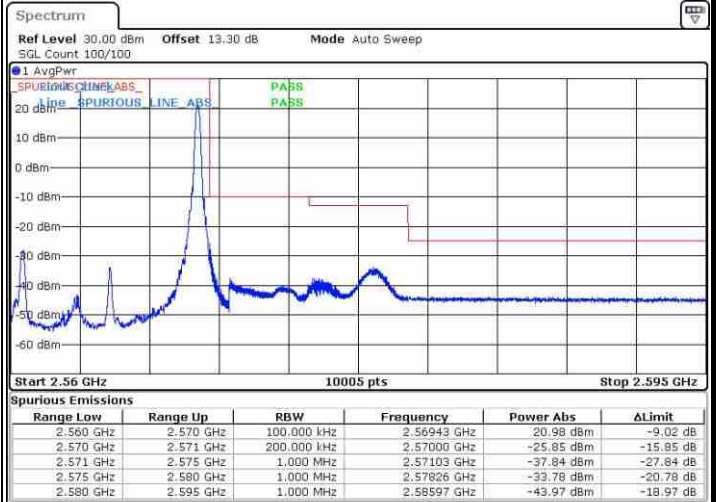
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



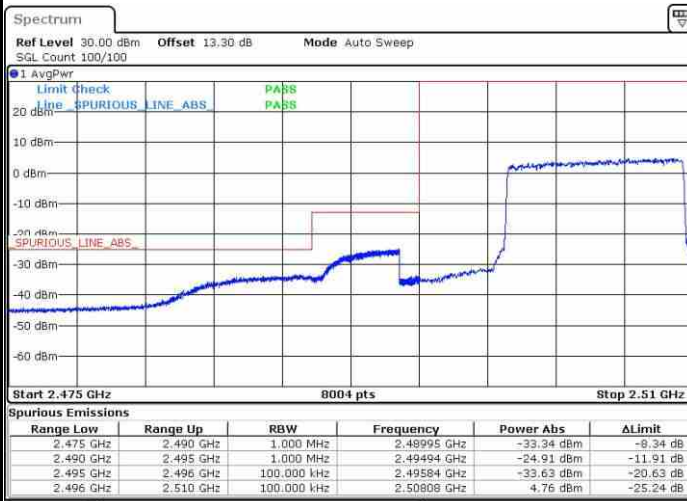
Date: 13.MAR.2018 11:11:37

Highest Band Edge / 1 RB



Date: 13.MAR.2018 11:16:17

Lowest Band Edge / Full RB



Date: 13.MAR.2018 11:13:57

Highest Band Edge / Full RB

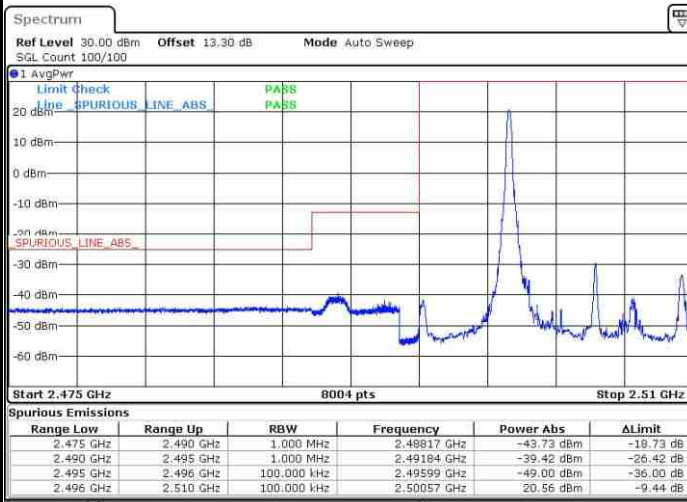


Date: 13.MAR.2018 11:18:37



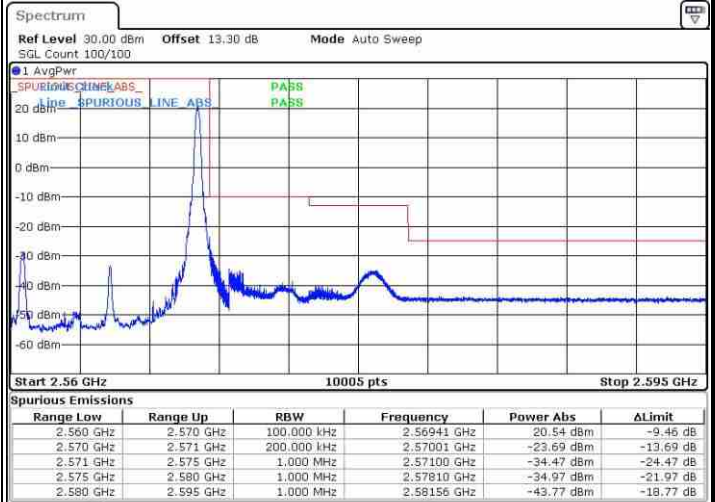
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



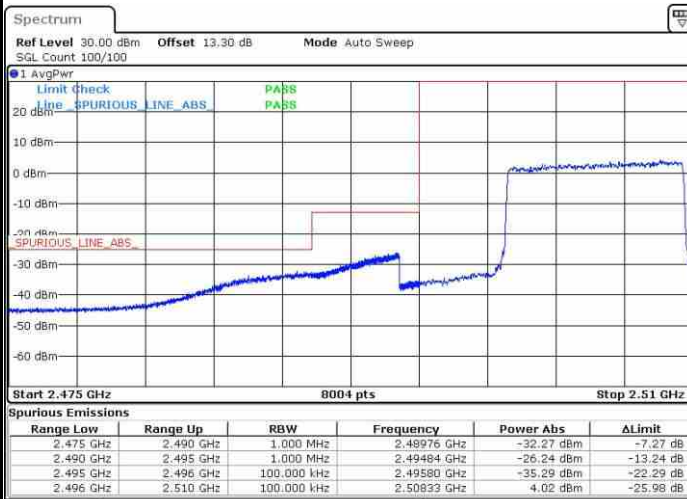
Date: 13.MAR.2018 11:12:47

Highest Band Edge / 1 RB



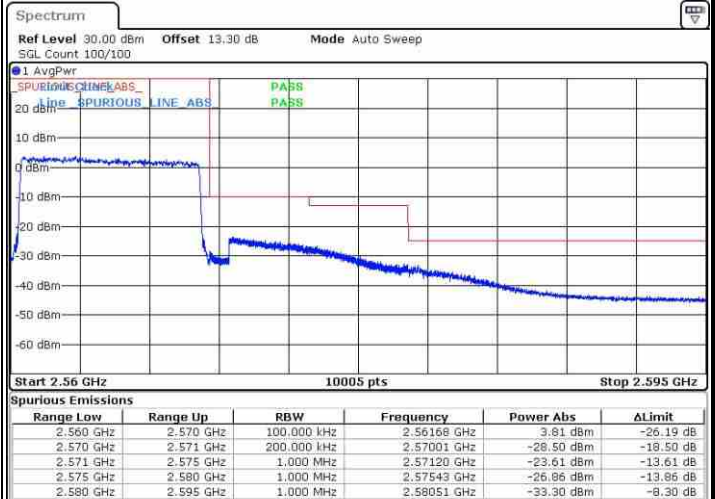
Date: 13.MAR.2018 11:17:27

Lowest Band Edge / Full RB



Date: 13.MAR.2018 11:15:07

Highest Band Edge / Full RB

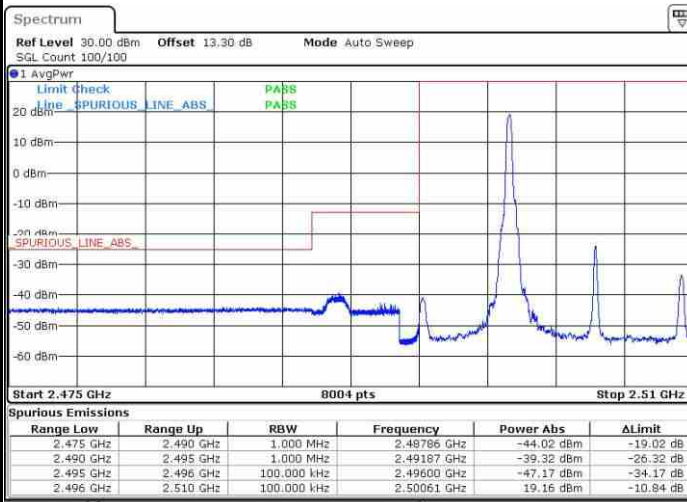


Date: 13.MAR.2018 11:19:47



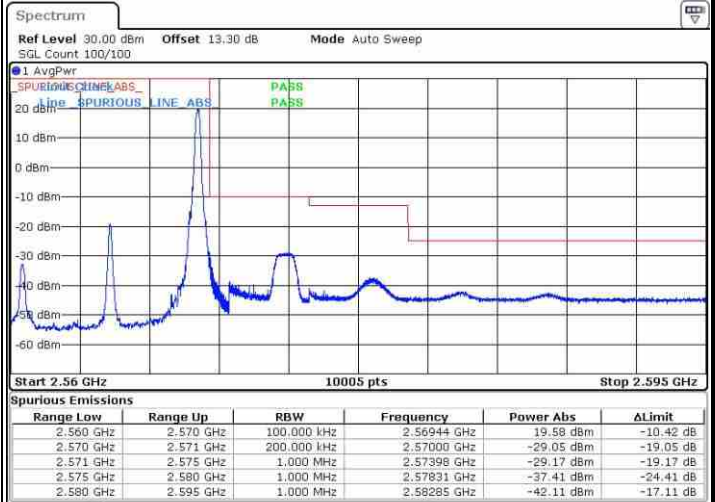
LTE Band 7 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



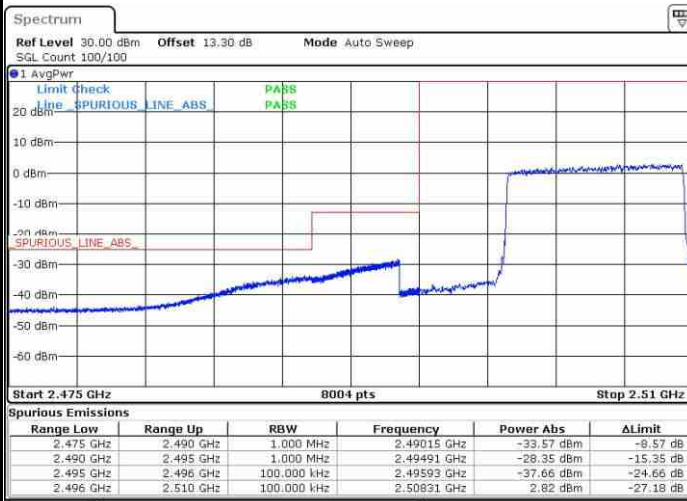
Date: 16.MAR.2018 10:37:58

Highest Band Edge / 1 RB



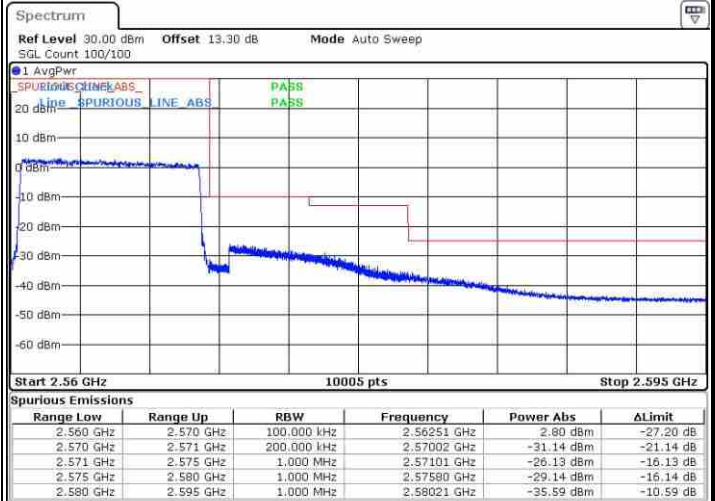
Date: 16.MAR.2018 10:44:10

Lowest Band Edge / Full RB



Date: 16.MAR.2018 10:39:08

Highest Band Edge / Full RB

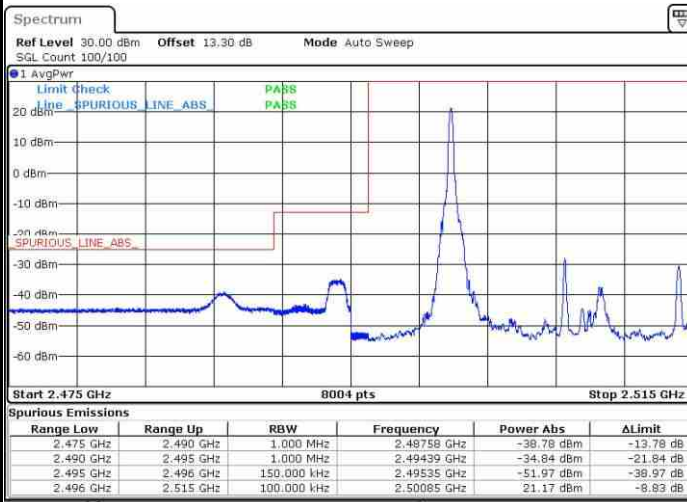


Date: 16.MAR.2018 10:45:21



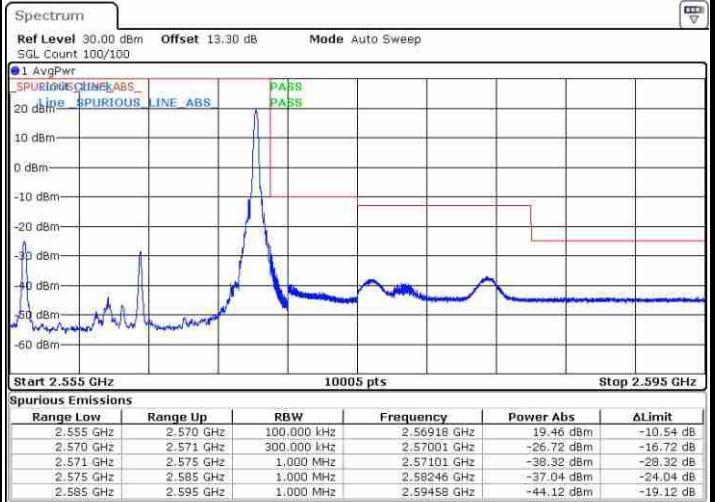
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



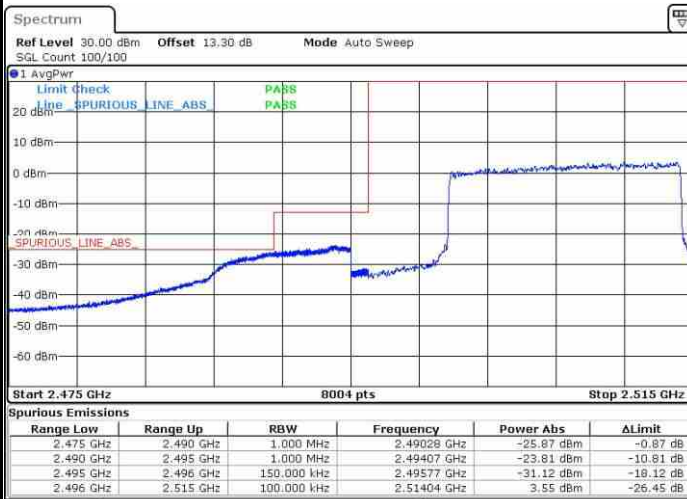
Date: 13.MAR.2018 11:20:56

Highest Band Edge / 1 RB



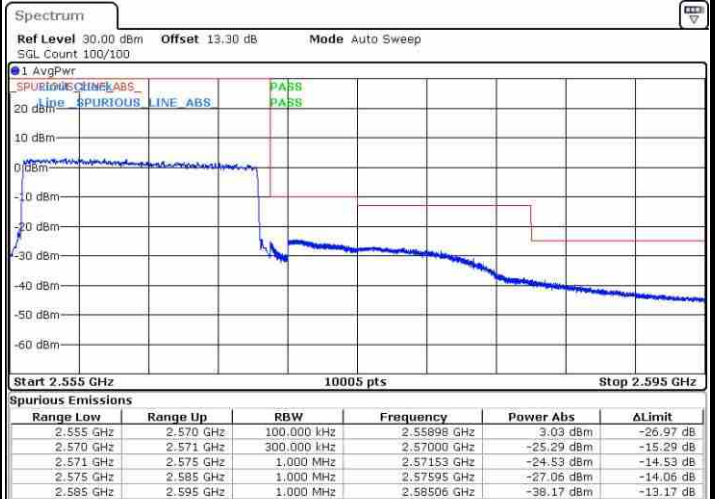
Date: 16.MAR.2018 11:32:47

Lowest Band Edge / Full RB



Date: 13.MAR.2018 11:23:16

Highest Band Edge / Full RB

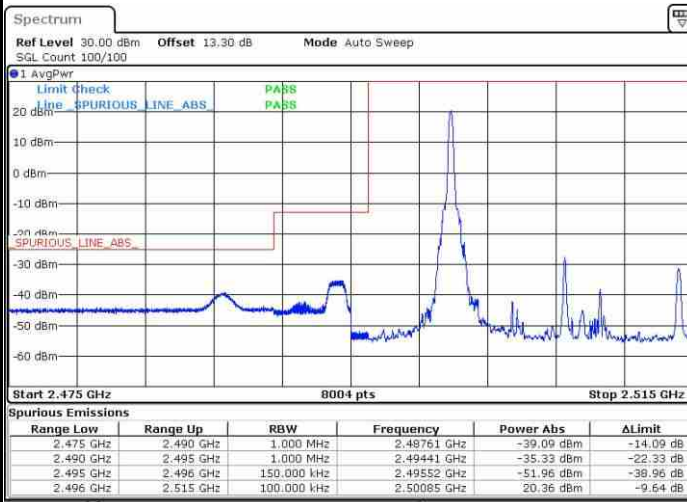


Date: 13.MAR.2018 11:27:56



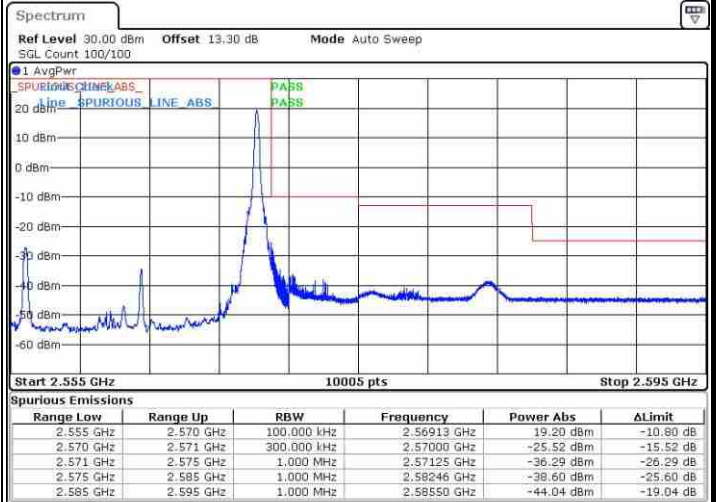
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 13.MAR.2018 11:22:06

Highest Band Edge / 1 RB



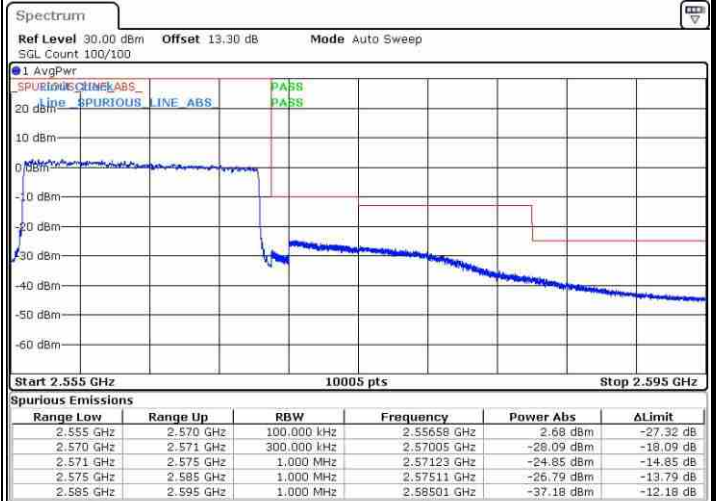
Date: 13.MAR.2018 11:26:46

Lowest Band Edge / Full RB



Date: 13.MAR.2018 11:24:26

Highest Band Edge / Full RB

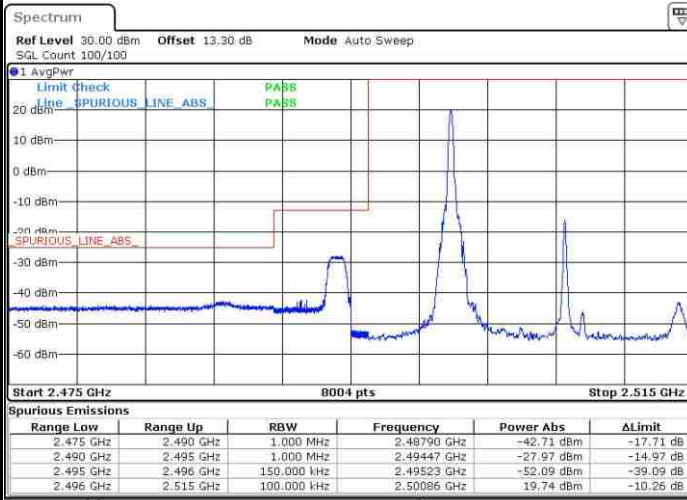


Date: 13.MAR.2018 11:29:05



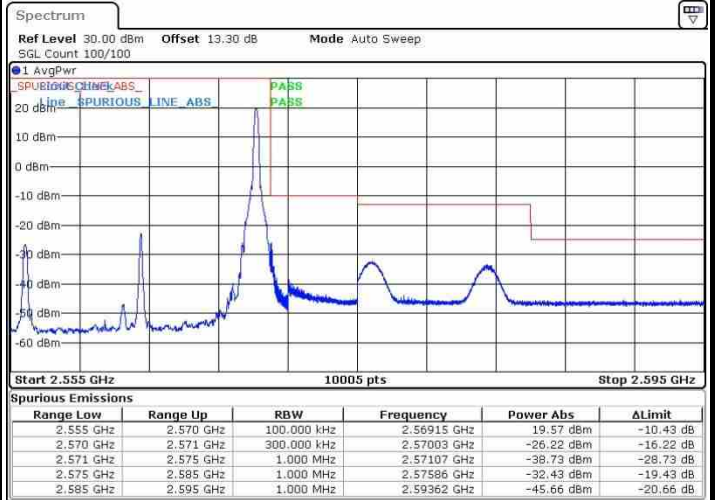
LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



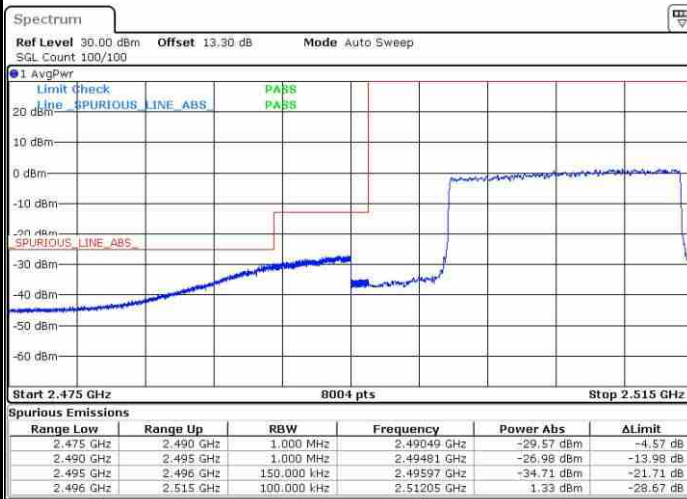
Date: 16.MAR.2018 10:47:53

Highest Band Edge / 1 RB



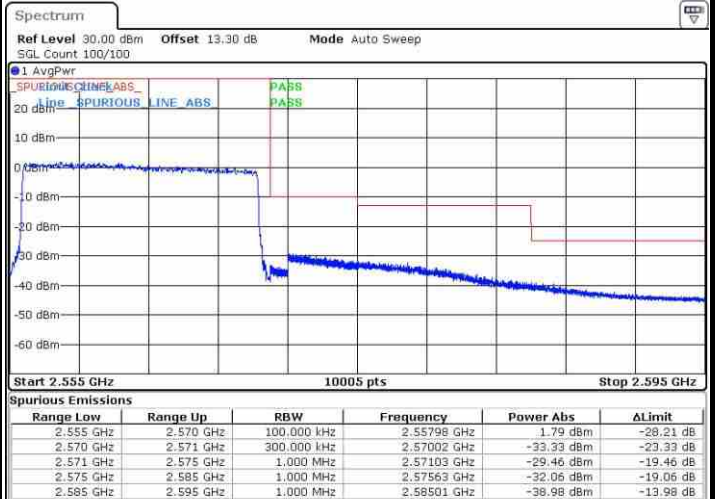
Date: 18.MAR.2018 14:14:49

Lowest Band Edge / Full RB



Date: 16.MAR.2018 10:49:03

Highest Band Edge / Full RB

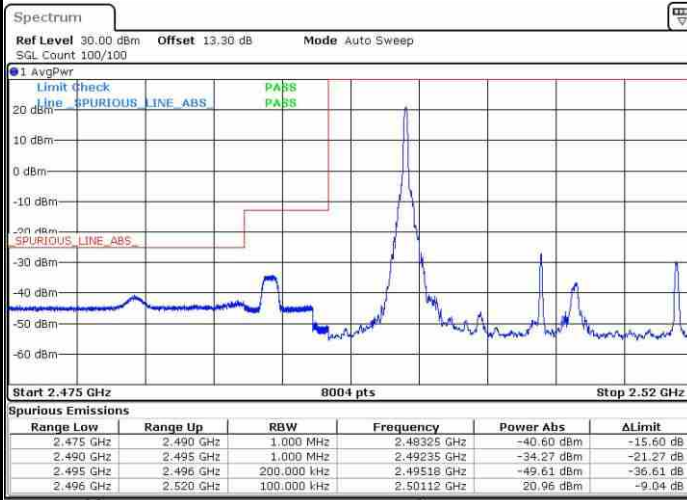


Date: 16.MAR.2018 10:54:21



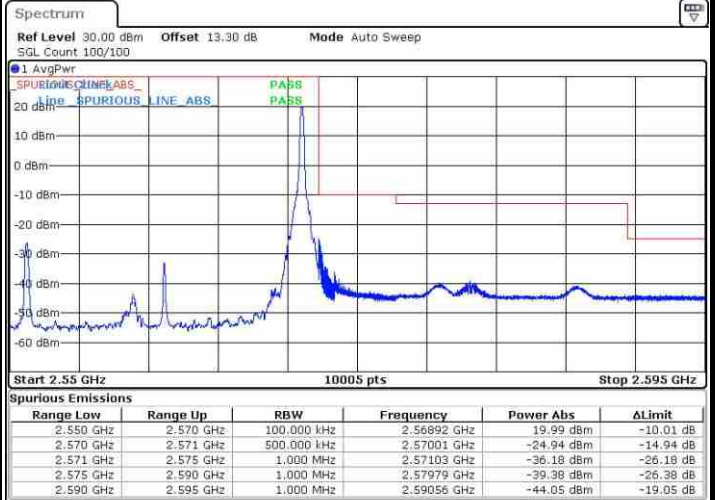
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB



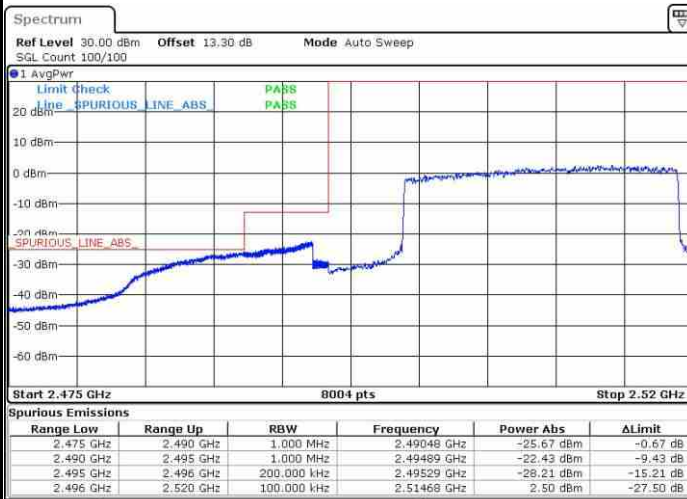
Date: 13.MAR.2018 11:30:15

Highest Band Edge / 1 RB



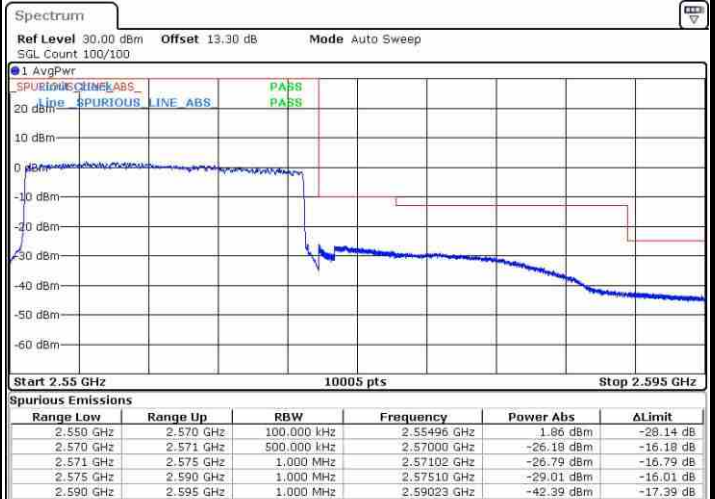
Date: 13.MAR.2018 11:34:54

Lowest Band Edge / Full RB



Date: 13.MAR.2018 11:32:35

Highest Band Edge / Full RB

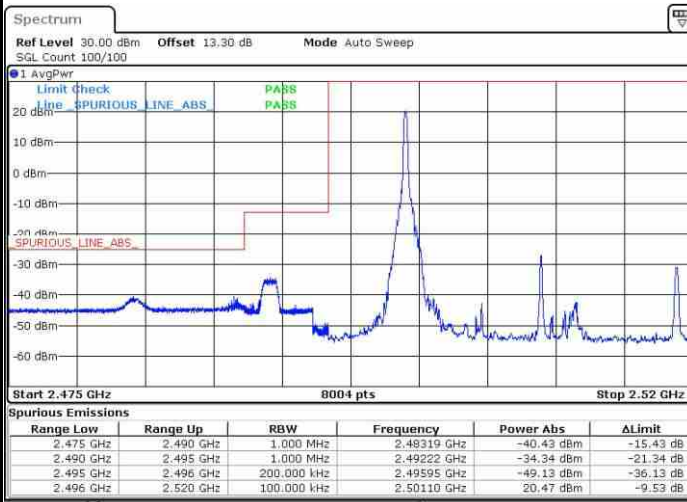


Date: 13.MAR.2018 11:38:24



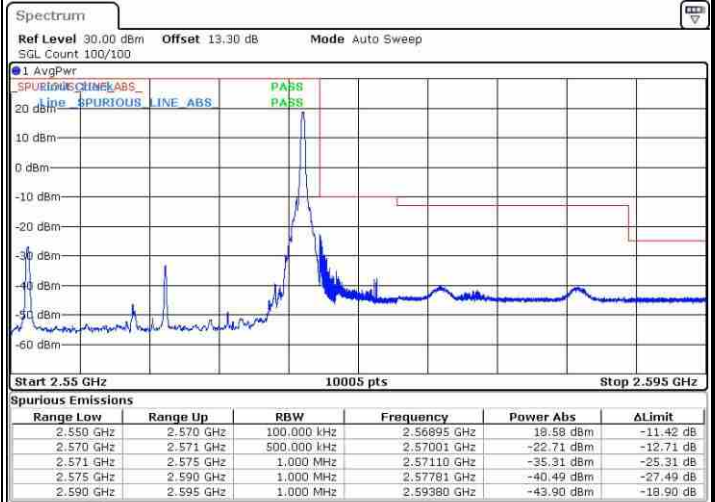
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



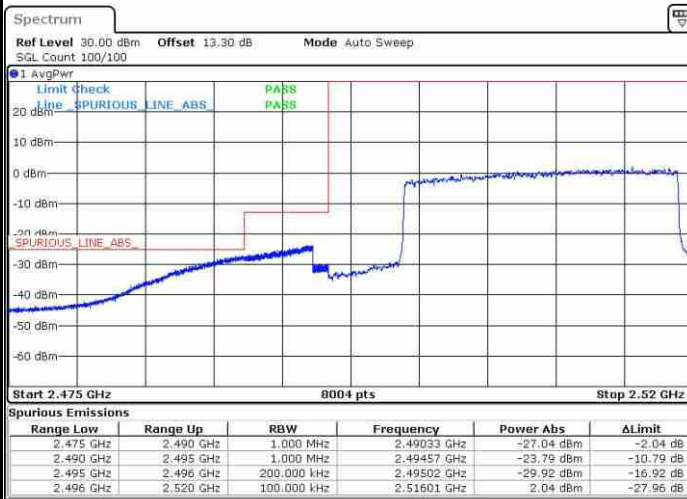
Date: 13.MAR.2018 11:31:25

Highest Band Edge / 1RB



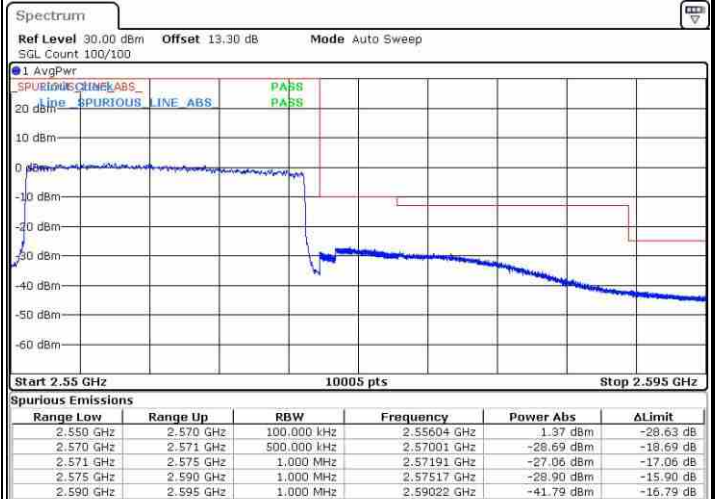
Date: 13.MAR.2018 11:36:04

Lowest Band Edge / Full RB



Date: 13.MAR.2018 11:33:44

Highest Band Edge / Full RB



Date: 13.MAR.2018 11:37:14