



C2PC CERTIFICATION TEST REPORT

Report Number. : 11740661-E9V1

Applicant : SONY MOBILE COMMUNICATIONS INC.
4-12-3 HIGASHI-SHINAGAWA,
SHINAGAWA -KU,TOKYO, 140-0002, JAPAN

FCC ID : PY7-81775I

EUT Description : GSM/WCDMA/LTE Phone with BT,DTS/UNII a/b/g/n/ac, GPS &
NFC

Test Standard(s) : FCC CFR47 PART 27 SUBPART L

Date Of Issue:

August 30, 2017

Prepared by:

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NVLAP LAB CODE 200065-0

Revision History

| <u>Rev.</u> | <u>Issue Date</u> | <u>Revisions</u> | <u>Revised By</u> |
|-------------|-----------------------|------------------|-------------------|
| V1 | 08/30/17 | Initial Issue | D. Corona |

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SONY MOBILE COMMUNICATIONS, INC.
4-12-3 HIGASHI-SHINAGAWA,
SHINAGAWA –KU, TOKYO, 140-0002, JAPAN

EUT DESCRIPTION: GSM/WCDMA/LTE PHONE with BT, DTS/UNII a/b/g/n/ac, GPS & NFC

SERIAL NUMBER: QV7001QP0N, QV7001RA0N

DATE TESTED: August 30, 2017

| APPLICABLE STANDARDS | |
|----------------------|--------------|
| STANDARD | TEST RESULTS |
| FCC 27L | PASS |

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with TIA-603-D, FCC CFR 47 Part 2, FCC KDB 971168 D01 v02r02 and Part 27

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, Fremont, California, USA. Line conducted emissions are measured only at the 47173 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

| 47173 Benicia Street | 47266 Benicia Street |
|--|---|
| <input type="checkbox"/> Chamber A(IC: 2324B-1) | <input type="checkbox"/> Chamber D(IC: 22541-1) |
| <input type="checkbox"/> Chamber B(IC: 2324B-2) | <input type="checkbox"/> Chamber E(IC: 22541-2) |
| <input checked="" type="checkbox"/> Chamber C(IC: 2324B-3) | <input type="checkbox"/> Chamber F(IC: 22541-3) |
| | <input type="checkbox"/> Chamber G(IC: 22541-4) |
| | <input type="checkbox"/> Chamber H(IC: 22541-5) |

The above test sites and facilities are covered under FCC Test Firm Registration # 208313. UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. Chambers A through C are covered under Industry Canada company address code 2324B with site numbers 2324B -1 through 2324B-3, respectively. Chambers D through H are covered under Industry Canada company address code 22541 with site numbers 22541 -1 through 22541-5, respectively.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$EIRP = \text{PSA reading with EUT worst orientation (dBm)} + \text{Path loss (dB)} - \text{cable loss (between the SG and substitution antenna)} + \text{Substitution Antenna Factor (dBi)}$

$ERP = \text{PSA reading with EUT worst orientation (dBm)} + \text{Path loss (dB)} - \text{cable loss (between the SG and substitution antenna)}$

(Path loss = Signal generator output – PSA reading with substitution antenna)

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| PARAMETER | UNCERTAINTY |
|-----------------------------------|-------------|
| Occupied Channel Bandwidth | ±1.1 % |
| RF output power, conducted | ±0.35 dB |
| Power Spectral Density, conducted | ±0.39 dB |
| Unwanted Emissions, conducted | ±2.9 dB |
| All emissions, radiated | ±5.36 dB |
| Temperature | ±0.9 °C |
| Humidity | ±2.26% RH |
| Supply Voltages | ±0.45 % |
| Time | ±0.2 % |

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

This EUT is a GSM/WCDMA/LTE PHONE with BT, DTS/UNII a/b/g/n/ac, GPS & NFC.

The purpose of this C2PC:

Change in Antenna tuning parameter affecting LTE Band 4 and Band 66. This change do not affect SAR testing results as confirmed with preliminary testing and indicated in C2PC submittal documents for details. Therefore SAR Report is not required for the C2PC.

6. MAXIMUM OUTPUT POWER

6.1. MAXIMUM OUTPUT POWER (LTE)

The transmitter has a maximum peak conducted and ERP/EIRP output powers as follows:

LTE Band 66

| FCC Part 27 | | | | | | | |
|-------------|----------------------|-----------------|------------|---------------------|---------|----------------|---------|
| Band | Frequency Range(MHz) | BandWidth (MHz) | Modulation | Conducted (Average) | | EIRP (Average) | |
| | | | | AVG(dBm) | AVG(mW) | AVG(dBm) | AVG(mW) |
| LTE66 | 1710~1780 | 1.4MHz | QPSK | 20.2 | 104.71 | 17.10 | 51.29 |
| | | | 16QAM | 20.1 | 102.33 | 17.00 | 50.12 |
| | | 3MHz | QPSK | 20.3 | 107.15 | 17.20 | 52.48 |
| | | | 16QAM | 20.1 | 102.33 | 17.00 | 50.12 |
| | | 5MHz | QPSK | 20.4 | 109.65 | 17.30 | 53.70 |
| | | | 16QAM | 20.3 | 107.15 | 17.20 | 52.48 |
| | | 10MHz | QPSK | 20.3 | 107.15 | 17.20 | 52.48 |
| | | | 16QAM | 20.2 | 104.71 | 17.10 | 51.29 |
| | | 15MHz | QPSK | 20.4 | 109.65 | 17.30 | 53.70 |
| | | | 16QAM | 20.3 | 107.15 | 17.20 | 52.48 |
| | | 20MHz | QPSK | 20.5 | 112.20 | 17.40 | 54.95 |
| | | | 16QAM | 20.3 | 107.15 | 17.20 | 52.48 |

7. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a PIFA antenna for the [List the bands supported] with a maximum peak gain as follow:

| Frequency (MHz) | Peak Gain (dBi) |
|---------------------------|-----------------|
| LTE Band 66, 1710~1780MHz | -3.1 |

8. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

| Support Equipment List | | | | |
|------------------------|--------------|-------------|---------------|--------|
| Description | Manufacturer | Model | Serial Number | FCC ID |
| AC Adapter | SONY | 1300-7137.1 | 4016W40310044 | NA |
| Earphone | SONY | N/A | N/A | N/A |

I/O CABLES (CONDUCTED SETUP)

| I/O Cable List | | | | | | |
|----------------|--------------|----------------------|------------------------|-------------|------------------|---------|
| Cable No | Port | # of Identical ports | Connector Type | Serial Type | Cable Length (m) | Remarks |
| 1 | RF Out | 1 | Spectrum Analyzer | Shielded | None | NA |
| 2 | Antenna Port | 1 | EUT | Shielded | 0.1m | NA |
| 3 | RF In/Out | 1 | Communication Test Set | Shielded | 1m | NA |

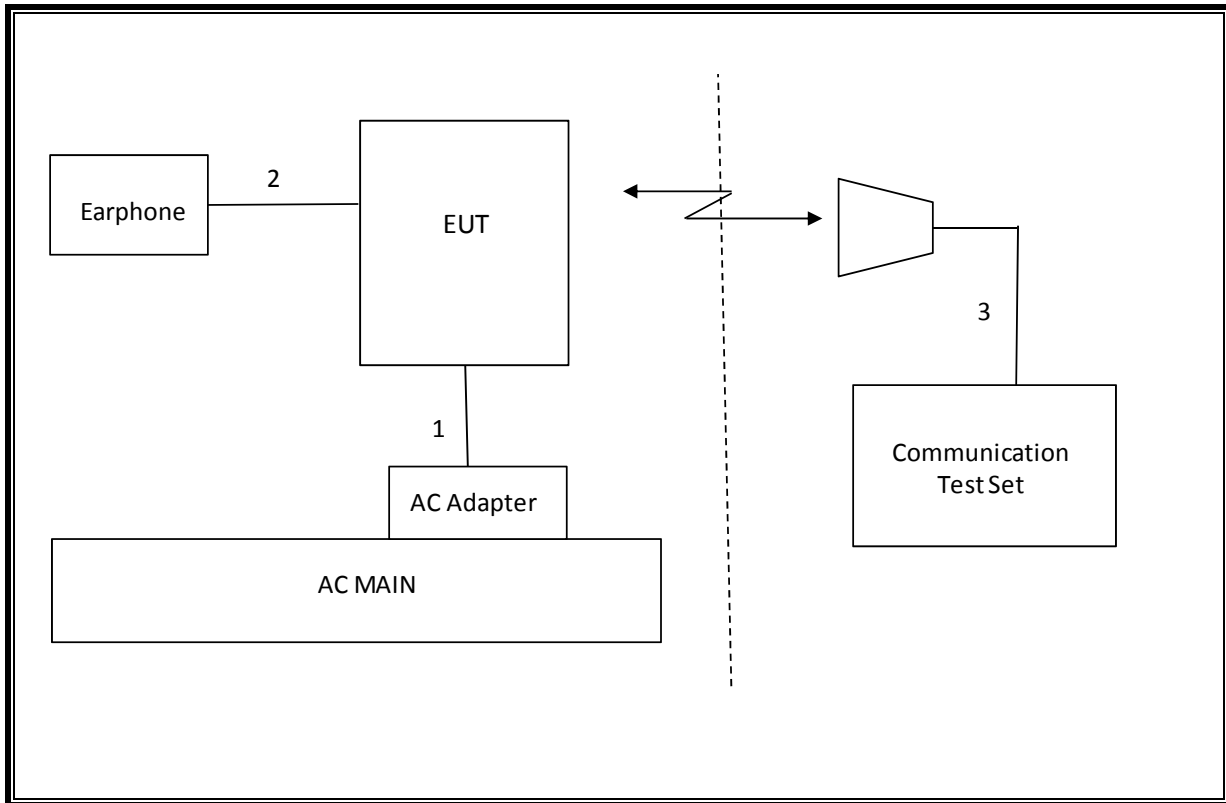
I/O CABLES (RADIATED SETUP)

| I/O Cable List | | | | | | |
|----------------|-----------|----------------------|------------------------|-------------|------------------|---------|
| Cable No | Port | # of Identical ports | Connector Type | Serial Type | Cable Length (m) | Remarks |
| 1 | USB | 1 | AC Adapter | Un-shielded | 1.2m | No |
| 2 | Jack | 1 | Headset | Shielded | 1m | No |
| 3 | RF In/out | 1 | Communication Test Set | Un-shielded | 2m | Yes |

TEST SETUP

The EUT is continuously communicated to the call box during the tests.

SETUP DIAGRAM FOR TESTS (RADIATED TEST SETUP)



9. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

| Test Equipment List | | | | | |
|---|----------------|------------------------|----------|----------|----------|
| Description | Manufacturer | Model | T Number | Cal Date | Cal Due |
| Amplifier, 1 to 8 GHz | Miteq | AMF-4D-01000800-30-29P | 1156 | 02/15/17 | 02/15/18 |
| Antenna, Broadband Hybrid, 30MHz to 2000MHz | Sunol Sciences | JB3 | 408 | 11/10/16 | 11/10/17 |
| Highpass Filter, 2.7 GHz | Micro-Circuits | H2G518G6 | T772 | 7/5/16 | 07/5/18 |
| Highpass Filter, 1 GHz | Micro-Tronics | HPM18129 | T889 | 2/21/17 | 02/21/18 |
| Highpass Filter, 4GHz | Micro-Tronics | HPM13351 | T1241 | 7/19/16 | 07/19/17 |
| Amplifier, 1-18GHz | Miteq | AFS42-00101800-25-S-42 | 931 | 08/26/16 | 08/26/17 |
| Amplifier, 10KHz to 1GHz, 32dB | Keysight | 8447D | 15 | 08/26/16 | 08/26/17 |
| Antenna, Horn 1-18GHz | ETS Lindgren | 3117 | 712 | 01/30/17 | 01/30/18 |
| Spectrum Analyzer, PXA, 3Hz to 44GHz | Keysight | N9030A | 905 | 01/11/17 | 01/11/18 |
| Antenna, Tuned Dipole 400~1000 MHz | ETS | 3121C DB4 | T273 | 6/08/17 | 6/08/18 |

| Test Equipment List | | | |
|-----------------------|--------------|--------|------------------------|
| Description | Manufacturer | Model | T Number |
| Radiated Software | UL | UL EMC | Ver 9.5, June 24, 2015 |
| Conducted Software | UL | UL EMC | Ver 9.5, May 26, 2015 |
| CLT Software | UL | UL RF | Ver 1.0, Feb 2, 2015 |
| Antenna Port Software | UL | UL RF | Ver 3.7, Nov 12, 2015 |

10. SUMMARY TABLE

| FCC Part Section | Test Description | Test Limit | Test Condition | Test Result |
|------------------------------------|-------------------------------------|------------|----------------|-------------|
| 2.1046 | Conducted output power | N/A | | Pass |
| 24.232(c) 27.50(h)(2) | Equivalent Isotropic Radiated Power | 33dBm | Radiated | Pass |
| 22.917(a) 24.238(a) 27.53(g) | Radiated Spurious Emission | -13dBm | | Pass |

11. RF POWER OUTPUT VERIFICATION

TEST PROCEDURE

ANSI C63.26:2015/ TIA / EIA 603-D Clause 2.2.17
KDB 971168 Section 5.6

$$\text{ERP/EIRP} = \text{PMeas} + \text{GT} - \text{LC}$$

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

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

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

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

MODES TESTED

- LTE Band 66

11.1. LTE OUTPUT POWER RESULT

LTE Band 4 Measured Results

LTE Band 4 (Frequency range: 1710-1755MHz) is covered by LTE Band 66 (Frequency range: 1710-1780 MHz) and no testing is necessary due to overlapping frequency range, same maximum tune-up limit and same channel bandwidth and same modulations.

64QAM Measured Results

Measured QPSK, 16QAM & 64QAM Mode Output power and found that QPSK and 16QAM results was the worst case. All testing were performed using QPSK and 16QAM mode to represent the worst case mode.

| | |
|-----------|-------------------------------|
| Tested By | AJ Newcomer/ Vanessa Moestopo |
| Date | 6/5-12/2017 |

LTE Band 66

| Antenna gain (dBi) | | -3.10 | | | | | | | | | | |
|--------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|------|------|-------|
| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) | | | |
| 1.4 | 131979 | 1710.7 | QPSK | 1 | 0 | 20.1 | 17.0 | 33.0 | -16.0 | | | |
| | | | | 1 | 3 | 20.1 | 17.0 | 33.0 | -16.0 | | | |
| | | | | 1 | 5 | 20.1 | 17.0 | 33.0 | -16.0 | | | |
| | | | | 3 | 0 | 20.2 | 17.1 | 33.0 | -15.9 | | | |
| | | | | 3 | 1 | 20.2 | 17.1 | 33.0 | -15.9 | | | |
| | | | | 3 | 3 | 20.2 | 17.1 | 33.0 | -15.9 | | | |
| | | | 16QAM | 6 | 0 | 20.1 | 17.0 | 33.0 | -16.0 | | | |
| | | | | 1 | 0 | 20.0 | 16.9 | 33.0 | -16.1 | | | |
| | | | | 1 | 3 | 20.1 | 17.0 | 33.0 | -16.0 | | | |
| | | | | 1 | 5 | 20.0 | 16.9 | 33.0 | -16.1 | | | |
| | | | | 3 | 0 | 19.9 | 16.8 | 33.0 | -16.2 | | | |
| | | | | 3 | 1 | 20.0 | 16.9 | 33.0 | -16.1 | | | |
| | | | 64QAM | 3 | 3 | 19.9 | 16.8 | 33.0 | -16.2 | | | |
| | | | | 6 | 0 | 19.6 | 16.5 | 33.0 | -16.5 | | | |
| | | | | 1 | 0 | 19.3 | 16.2 | 33.0 | -16.8 | | | |
| | | | | 1 | 3 | 19.4 | 16.3 | 33.0 | -16.7 | | | |
| | | | | 1 | 5 | 19.3 | 16.2 | 33.0 | -16.8 | | | |
| | | | | 3 | 0 | 19.1 | 16.0 | 33.0 | -17.0 | | | |
| | | | 1.4 | 132322 | 1745.0 | QPSK | 3 | 1 | 19.2 | 16.1 | 33.0 | -16.9 |
| | | | | | | | 3 | 3 | 19.1 | 16.0 | 33.0 | -17.0 |
| | | | | | | | 6 | 0 | 19.1 | 16.0 | 33.0 | -17.0 |
| | | | | | | | 1 | 0 | 20.0 | 16.9 | 33.0 | -16.1 |
| | | | | | | | 1 | 3 | 20.0 | 16.9 | 33.0 | -16.1 |
| | | | | | | | 1 | 5 | 20.0 | 16.9 | 33.0 | -16.1 |
| 16QAM | 3 | 0 | | | | 20.0 | 16.9 | 33.0 | -16.1 | | | |
| | 3 | 1 | | | | 20.0 | 16.9 | 33.0 | -16.1 | | | |
| | 3 | 3 | | | | 20.0 | 16.9 | 33.0 | -16.1 | | | |
| | 6 | 0 | | | | 20.0 | 16.9 | 33.0 | -16.1 | | | |
| | 1 | 0 | | | | 19.3 | 16.2 | 33.0 | -16.8 | | | |
| | 1 | 3 | | | | 19.4 | 16.3 | 33.0 | -16.7 | | | |
| 64QAM | 1 | 5 | | | | 19.3 | 16.2 | 33.0 | -16.8 | | | |
| | 3 | 0 | | | | 19.7 | 16.6 | 33.0 | -16.4 | | | |
| | 3 | 1 | | | | 19.7 | 16.6 | 33.0 | -16.4 | | | |
| | 3 | 3 | | | | 19.7 | 16.6 | 33.0 | -16.4 | | | |
| | 6 | 0 | | | | 19.7 | 16.6 | 33.0 | -16.4 | | | |
| | 1 | 0 | | | | 18.8 | 15.7 | 33.0 | -17.3 | | | |
| 64QAM | 1 | 3 | | | | 18.9 | 15.8 | 33.0 | -17.2 | | | |
| | 1 | 5 | | | | 18.8 | 15.7 | 33.0 | -17.3 | | | |
| | 3 | 0 | | | | 18.7 | 15.6 | 33.0 | -17.4 | | | |
| | 3 | 1 | | | | 18.8 | 15.7 | 33.0 | -17.3 | | | |
| | 3 | 3 | | | | 18.7 | 15.6 | 33.0 | -17.4 | | | |
| | 6 | 0 | | | | 18.7 | 15.6 | 33.0 | -17.4 | | | |

| Antenna gain (dBi) | | -3.10 | | | | | | | | | |
|--------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|------|-------|
| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) | | |
| 1.4 | 132665 | 1779.3 | QPSK | 1 | 0 | 19.9 | 16.8 | 33.0 | -16.2 | | |
| | | | | 1 | 3 | 19.9 | 16.8 | 33.0 | -16.2 | | |
| | | | | 1 | 5 | 19.9 | 16.8 | 33.0 | -16.2 | | |
| | | | | 3 | 0 | 19.9 | 16.8 | 33.0 | -16.2 | | |
| | | | | 3 | 1 | 20.0 | 16.9 | 33.0 | -16.1 | | |
| | | | | 3 | 3 | 19.9 | 16.8 | 33.0 | -16.2 | | |
| | | | 16QAM | 1 | 0 | 19.1 | 16.0 | 33.0 | -17.0 | | |
| | | | | 1 | 3 | 19.2 | 16.1 | 33.0 | -16.9 | | |
| | | | | 1 | 5 | 19.2 | 16.1 | 33.0 | -16.9 | | |
| | | | | 3 | 0 | 19.5 | 16.4 | 33.0 | -16.6 | | |
| | | | | 3 | 1 | 19.5 | 16.4 | 33.0 | -16.6 | | |
| | | | | 3 | 3 | 19.5 | 16.4 | 33.0 | -16.6 | | |
| | | | 64QAM | 6 | 0 | 19.6 | 16.5 | 33.0 | -16.5 | | |
| | | | | 1 | 0 | 18.5 | 15.4 | 33.0 | -17.6 | | |
| | | | | 1 | 3 | 18.5 | 15.4 | 33.0 | -17.6 | | |
| | | | | 1 | 5 | 18.5 | 15.4 | 33.0 | -17.6 | | |
| | | | | 3 | 0 | 18.5 | 15.4 | 33.0 | -17.6 | | |
| | | | | 3 | 1 | 18.5 | 15.4 | 33.0 | -17.6 | | |
| | | | | | | 3 | 3 | 18.5 | 15.4 | 33.0 | -17.6 |
| | | | | | | 6 | 0 | 18.5 | 15.4 | 33.0 | -17.6 |

| Antenna gain (dBi) | | -3.10 | | | | | | | | | | |
|--------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|------|------|-------|
| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) | | | |
| 3.0 | 131987 | 1711.5 | QPSK | 1 | 0 | 20.2 | 17.1 | 33.0 | -15.9 | | | |
| | | | | 1 | 8 | 20.2 | 17.1 | 33.0 | -15.9 | | | |
| | | | | 1 | 14 | 20.2 | 17.1 | 33.0 | -15.9 | | | |
| | | | | 8 | 0 | 20.2 | 17.1 | 33.0 | -15.9 | | | |
| | | | | 8 | 4 | 20.3 | 17.2 | 33.0 | -15.8 | | | |
| | | | | 8 | 7 | 20.2 | 17.1 | 33.0 | -15.9 | | | |
| | | | 16QAM | 1 | 0 | 20.1 | 17.0 | 33.0 | -16.0 | | | |
| | | | | 1 | 8 | 20.1 | 17.0 | 33.0 | -16.0 | | | |
| | | | | 1 | 14 | 20.1 | 17.0 | 33.0 | -16.0 | | | |
| | | | | 8 | 0 | 19.8 | 16.7 | 33.0 | -16.3 | | | |
| | | | | 8 | 4 | 19.9 | 16.8 | 33.0 | -16.2 | | | |
| | | | | 8 | 7 | 19.8 | 16.7 | 33.0 | -16.3 | | | |
| | | | 64QAM | 15 | 0 | 19.8 | 16.7 | 33.0 | -16.3 | | | |
| | | | | 1 | 0 | 19.3 | 16.2 | 33.0 | -16.8 | | | |
| | | | | 1 | 8 | 19.3 | 16.2 | 33.0 | -16.8 | | | |
| | | | | 1 | 14 | 19.3 | 16.2 | 33.0 | -16.8 | | | |
| | | | | 8 | 0 | 19.1 | 16.0 | 33.0 | -17.0 | | | |
| | | | | 8 | 4 | 19.1 | 16.0 | 33.0 | -17.0 | | | |
| | | | 3.0 | 132322 | 1745.0 | QPSK | 8 | 7 | 19.1 | 16.0 | 33.0 | -17.0 |
| | | | | | | | 8 | 0 | 19.1 | 16.0 | 33.0 | -17.0 |
| | | | | | | | 15 | 0 | 19.1 | 16.0 | 33.0 | -17.0 |
| 1 | 0 | 20.0 | | | | | 16.9 | 33.0 | -16.1 | | | |
| 1 | 8 | 20.0 | | | | | 16.9 | 33.0 | -16.1 | | | |
| 1 | 14 | 20.0 | | | | | 16.9 | 33.0 | -16.1 | | | |
| 16QAM | 8 | 0 | | | | 20.1 | 17.0 | 33.0 | -16.0 | | | |
| | 8 | 4 | | | | 20.1 | 17.0 | 33.0 | -16.0 | | | |
| | 8 | 7 | | | | 20.1 | 17.0 | 33.0 | -16.0 | | | |
| | 15 | 0 | | | | 20.1 | 17.0 | 33.0 | -16.0 | | | |
| | 1 | 0 | | | | 19.5 | 16.4 | 33.0 | -16.6 | | | |
| | 1 | 8 | | | | 19.5 | 16.4 | 33.0 | -16.6 | | | |
| 64QAM | 1 | 14 | | | | 19.5 | 16.4 | 33.0 | -16.6 | | | |
| | 8 | 0 | | | | 19.7 | 16.6 | 33.0 | -16.4 | | | |
| | 8 | 4 | | | | 19.7 | 16.6 | 33.0 | -16.4 | | | |
| | 8 | 7 | | | | 19.6 | 16.5 | 33.0 | -16.5 | | | |
| | 15 | 0 | | | | 19.7 | 16.6 | 33.0 | -16.4 | | | |
| | 1 | 0 | | | | 18.6 | 15.5 | 33.0 | -17.5 | | | |
| 64QAM | 1 | 8 | | | | 18.5 | 15.4 | 33.0 | -17.6 | | | |
| | 1 | 14 | | | | 18.5 | 15.4 | 33.0 | -17.6 | | | |
| | 8 | 0 | | | | 18.7 | 15.6 | 33.0 | -17.4 | | | |
| | 8 | 4 | 18.8 | 15.7 | 33.0 | -17.3 | | | | | | |
| | 8 | 7 | 18.7 | 15.6 | 33.0 | -17.4 | | | | | | |
| | 15 | 0 | 18.7 | 15.6 | 33.0 | -17.4 | | | | | | |

| Antenna gain (dBi) | | -3.10 | | | | | | | | | |
|--------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|------|-------|
| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) | | |
| 3.0 | 132657 | 1778.5 | QPSK | 1 | 0 | 20.0 | 16.9 | 33.0 | -16.1 | | |
| | | | | 1 | 8 | 19.9 | 16.8 | 33.0 | -16.2 | | |
| | | | | 1 | 14 | 19.9 | 16.8 | 33.0 | -16.2 | | |
| | | | | 8 | 0 | 20.0 | 16.9 | 33.0 | -16.1 | | |
| | | | | 8 | 4 | 20.0 | 16.9 | 33.0 | -16.1 | | |
| | | | | 8 | 7 | 20.0 | 16.9 | 33.0 | -16.1 | | |
| | | | 16QAM | 15 | 0 | 20.0 | 16.9 | 33.0 | -16.1 | | |
| | | | | 1 | 0 | 19.3 | 16.2 | 33.0 | -16.8 | | |
| | | | | 1 | 8 | 19.2 | 16.1 | 33.0 | -16.9 | | |
| | | | | 1 | 14 | 19.2 | 16.1 | 33.0 | -16.9 | | |
| | | | | 8 | 0 | 19.5 | 16.4 | 33.0 | -16.6 | | |
| | | | | 8 | 4 | 19.5 | 16.4 | 33.0 | -16.6 | | |
| | | | 64QAM | 8 | 7 | 19.5 | 16.4 | 33.0 | -16.6 | | |
| | | | | 15 | 0 | 19.5 | 16.4 | 33.0 | -16.6 | | |
| | | | | 1 | 0 | 18.5 | 15.4 | 33.0 | -17.6 | | |
| | | | | 1 | 8 | 18.5 | 15.4 | 33.0 | -17.6 | | |
| | | | | 1 | 14 | 18.5 | 15.4 | 33.0 | -17.6 | | |
| | | | | 8 | 0 | 18.5 | 15.4 | 33.0 | -17.6 | | |
| | | | | | | 8 | 4 | 18.5 | 15.4 | 33.0 | -17.6 |
| | | | | | | 8 | 7 | 18.5 | 15.4 | 33.0 | -17.6 |
| | | | | | | 15 | 0 | 18.5 | 15.4 | 33.0 | -17.6 |

| Antenna gain (dBi) | | -3.10 | | | | | | | |
|--------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 5.0 | 131997 | 1712.5 | QPSK | 1 | 0 | 20.3 | 17.2 | 33.0 | -15.8 |
| | | | | 1 | 12 | 20.2 | 17.1 | 33.0 | -15.9 |
| | | | | 1 | 24 | 20.2 | 17.1 | 33.0 | -15.9 |
| | | | | 12 | 0 | 20.3 | 17.2 | 33.0 | -15.8 |
| | | | | 12 | 7 | 20.3 | 17.2 | 33.0 | -15.8 |
| | | | | 12 | 13 | 20.3 | 17.2 | 33.0 | -15.8 |
| | | | | 25 | 0 | 20.3 | 17.2 | 33.0 | -15.8 |
| | | | 16QAM | 1 | 0 | 20.4 | 17.3 | 33.0 | -15.7 |
| | | | | 1 | 12 | 20.4 | 17.3 | 33.0 | -15.7 |
| | | | | 1 | 24 | 20.4 | 17.3 | 33.0 | -15.7 |
| | | | | 12 | 0 | 19.9 | 16.8 | 33.0 | -16.2 |
| | | | | 12 | 7 | 19.9 | 16.8 | 33.0 | -16.2 |
| | | | | 12 | 13 | 19.9 | 16.8 | 33.0 | -16.2 |
| | | | | 25 | 0 | 19.9 | 16.8 | 33.0 | -16.2 |
| | | | 64QAM | 1 | 0 | 19.1 | 16.0 | 33.0 | -17.0 |
| | | | | 1 | 12 | 19.0 | 15.9 | 33.0 | -17.1 |
| | | | | 1 | 24 | 19.0 | 15.9 | 33.0 | -17.1 |
| | | | | 12 | 0 | 18.9 | 15.8 | 33.0 | -17.2 |
| | | | | 12 | 7 | 18.9 | 15.8 | 33.0 | -17.2 |
| | | | | 12 | 13 | 18.8 | 15.7 | 33.0 | -17.3 |
| | | | | 25 | 0 | 18.8 | 15.7 | 33.0 | -17.3 |
| 5.0 | 132322 | 1745.0 | QPSK | 1 | 0 | 20.3 | 17.2 | 33.0 | -15.8 |
| | | | | 1 | 12 | 20.2 | 17.1 | 33.0 | -15.9 |
| | | | | 1 | 24 | 20.2 | 17.1 | 33.0 | -15.9 |
| | | | | 12 | 0 | 20.2 | 17.1 | 33.0 | -15.9 |
| | | | | 12 | 7 | 20.2 | 17.1 | 33.0 | -15.9 |
| | | | | 12 | 13 | 20.1 | 17.0 | 33.0 | -16.0 |
| | | | | 25 | 0 | 20.2 | 17.1 | 33.0 | -15.9 |
| | | | 16QAM | 1 | 0 | 19.7 | 16.6 | 33.0 | -16.4 |
| | | | | 1 | 2 | 19.6 | 16.5 | 33.0 | -16.5 |
| | | | | 1 | 5 | 19.6 | 16.5 | 33.0 | -16.5 |
| | | | | 3 | 0 | 19.7 | 16.6 | 33.0 | -16.4 |
| | | | | 3 | 1 | 19.7 | 16.6 | 33.0 | -16.4 |
| | | | | 3 | 2 | 19.7 | 16.6 | 33.0 | -16.4 |
| | | | | 6 | 0 | 19.7 | 16.6 | 33.0 | -16.4 |
| | | | 64QAM | 1 | 0 | 18.7 | 15.6 | 33.0 | -17.4 |
| | | | | 1 | 12 | 18.6 | 15.5 | 33.0 | -17.5 |
| | | | | 1 | 24 | 18.6 | 15.5 | 33.0 | -17.5 |
| | | | | 12 | 0 | 18.6 | 15.5 | 33.0 | -17.5 |
| | | | | 12 | 7 | 18.6 | 15.5 | 33.0 | -17.5 |
| | | | | 12 | 13 | 18.6 | 15.5 | 33.0 | -17.5 |
| | | | | 25 | 0 | 18.6 | 15.5 | 33.0 | -17.5 |

| Antenna gain (dBi) | | -3.10 | | | | | | | |
|--------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 5.0 | 132647 | 1777.5 | QPSK | 1 | 0 | 20.0 | 16.9 | 33.0 | -16.1 |
| | | | | 1 | 12 | 19.9 | 16.8 | 33.0 | -16.2 |
| | | | | 1 | 24 | 19.9 | 16.8 | 33.0 | -16.2 |
| | | | | 12 | 0 | 20.0 | 16.9 | 33.0 | -16.1 |
| | | | | 12 | 7 | 20.0 | 16.9 | 33.0 | -16.1 |
| | | | | 12 | 13 | 20.0 | 16.9 | 33.0 | -16.1 |
| | | | | 25 | 0 | 20.0 | 16.9 | 33.0 | -16.1 |
| | | | 16QAM | 1 | 0 | 19.6 | 16.5 | 33.0 | -16.5 |
| | | | | 1 | 12 | 19.5 | 16.4 | 33.0 | -16.6 |
| | | | | 1 | 24 | 19.5 | 16.4 | 33.0 | -16.6 |
| | | | | 12 | 0 | 19.7 | 16.6 | 33.0 | -16.4 |
| | | | | 12 | 7 | 19.7 | 16.6 | 33.0 | -16.4 |
| | | | | 12 | 13 | 19.6 | 16.5 | 33.0 | -16.5 |
| | | | | 25 | 0 | 19.5 | 16.4 | 33.0 | -16.6 |
| | | | 64QAM | 1 | 0 | 18.3 | 15.2 | 33.0 | -17.8 |
| | | | | 1 | 12 | 18.5 | 15.4 | 33.0 | -17.6 |
| | | | | 1 | 24 | 18.5 | 15.4 | 33.0 | -17.6 |
| | | | | 12 | 0 | 18.5 | 15.4 | 33.0 | -17.6 |
| | | | | 12 | 7 | 18.5 | 15.4 | 33.0 | -17.6 |
| | | | | 12 | 13 | 18.5 | 15.4 | 33.0 | -17.6 |
| | | | | 25 | 0 | 18.5 | 15.4 | 33.0 | -17.6 |

| Antenna gain (dBi) | | -3.10 | | | | | | | | | | |
|--------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|------|------|-------|
| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) | | | |
| 10.0 | 132022 | 1715.0 | QPSK | 1 | 0 | 20.3 | 17.2 | 33.0 | -15.8 | | | |
| | | | | 1 | 25 | 20.2 | 17.1 | 33.0 | -15.9 | | | |
| | | | | 1 | 49 | 20.2 | 17.1 | 33.0 | -15.9 | | | |
| | | | | 25 | 0 | 20.3 | 17.2 | 33.0 | -15.8 | | | |
| | | | | 25 | 12 | 20.3 | 17.2 | 33.0 | -15.8 | | | |
| | | | | 25 | 25 | 20.3 | 17.2 | 33.0 | -15.8 | | | |
| | | | 16QAM | 50 | 0 | 20.3 | 17.2 | 33.0 | -15.8 | | | |
| | | | | 1 | 0 | 20.2 | 17.1 | 33.0 | -15.9 | | | |
| | | | | 1 | 25 | 20.1 | 17.0 | 33.0 | -16.0 | | | |
| | | | | 1 | 49 | 20.2 | 17.1 | 33.0 | -15.9 | | | |
| | | | | 25 | 0 | 19.9 | 16.8 | 33.0 | -16.2 | | | |
| | | | | 25 | 12 | 19.9 | 16.8 | 33.0 | -16.2 | | | |
| | | | 64QAM | 25 | 25 | 19.8 | 16.7 | 33.0 | -16.3 | | | |
| | | | | 25 | 25 | 19.8 | 16.7 | 33.0 | -16.3 | | | |
| | | | | 50 | 0 | 19.8 | 16.7 | 33.0 | -16.3 | | | |
| | | | | 1 | 0 | 19.2 | 16.1 | 33.0 | -16.9 | | | |
| | | | | 1 | 25 | 19.1 | 16.0 | 33.0 | -17.0 | | | |
| | | | | 1 | 49 | 19.1 | 16.0 | 33.0 | -17.0 | | | |
| | | | 10.0 | 132322 | 1745.0 | QPSK | 25 | 0 | 18.8 | 15.7 | 33.0 | -17.3 |
| | | | | | | | 25 | 12 | 18.8 | 15.7 | 33.0 | -17.3 |
| | | | | | | | 25 | 25 | 18.8 | 15.7 | 33.0 | -17.3 |
| | | | | | | | 50 | 0 | 18.8 | 15.7 | 33.0 | -17.3 |
| | | | | | | | 1 | 0 | 20.0 | 16.9 | 33.0 | -16.1 |
| | | | | | | | 1 | 25 | 20.0 | 16.9 | 33.0 | -16.1 |
| 16QAM | 1 | 49 | | | | 20.0 | 16.9 | 33.0 | -16.1 | | | |
| | 25 | 0 | | | | 20.2 | 17.1 | 33.0 | -15.9 | | | |
| | 25 | 12 | | | | 20.2 | 17.1 | 33.0 | -15.9 | | | |
| | 25 | 25 | | | | 20.1 | 17.0 | 33.0 | -16.0 | | | |
| | 50 | 0 | | | | 20.1 | 17.0 | 33.0 | -16.0 | | | |
| | 1 | 0 | | | | 19.6 | 16.5 | 33.0 | -16.5 | | | |
| 64QAM | 1 | 25 | | | | 19.6 | 16.5 | 33.0 | -16.5 | | | |
| | 1 | 49 | | | | 19.5 | 16.4 | 33.0 | -16.6 | | | |
| | 25 | 0 | | | | 19.8 | 16.7 | 33.0 | -16.3 | | | |
| | 25 | 12 | | | | 19.8 | 16.7 | 33.0 | -16.3 | | | |
| | 25 | 25 | | | | 19.7 | 16.6 | 33.0 | -16.4 | | | |
| | 50 | 0 | | | | 19.7 | 16.6 | 33.0 | -16.4 | | | |
| 10.0 | 132322 | 1745.0 | 64QAM | 1 | 0 | 18.6 | 15.5 | 33.0 | -17.5 | | | |
| | | | | 1 | 25 | 18.6 | 15.5 | 33.0 | -17.5 | | | |
| | | | | 1 | 49 | 18.5 | 15.4 | 33.0 | -17.6 | | | |
| | | | | 25 | 0 | 18.5 | 15.4 | 33.0 | -17.6 | | | |
| | | | | 25 | 12 | 18.5 | 15.4 | 33.0 | -17.6 | | | |
| | | | | 25 | 25 | 18.6 | 15.5 | 33.0 | -17.5 | | | |
| 50 | 0 | 18.5 | 15.4 | 33.0 | -17.6 | | | | | | | |

| Antenna gain (dBi) | | -3.10 | | | | | | | |
|--------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10.0 | 132622 | 1775.0 | QPSK | 1 | 0 | 20.2 | 17.1 | 33.0 | -15.9 |
| | | | | 1 | 25 | 20.0 | 16.9 | 33.0 | -16.1 |
| | | | | 1 | 49 | 20.0 | 16.9 | 33.0 | -16.1 |
| | | | | 25 | 0 | 20.2 | 17.1 | 33.0 | -15.9 |
| | | | | 25 | 12 | 20.1 | 17.0 | 33.0 | -16.0 |
| | | | | 25 | 25 | 20.0 | 16.9 | 33.0 | -16.1 |
| | | | 16QAM | 50 | 0 | 20.1 | 17.0 | 33.0 | -16.0 |
| | | | | 1 | 0 | 19.5 | 16.4 | 33.0 | -16.6 |
| | | | | 1 | 25 | 19.3 | 16.2 | 33.0 | -16.8 |
| | | | | 1 | 49 | 19.3 | 16.2 | 33.0 | -16.8 |
| | | | | 25 | 0 | 19.9 | 16.8 | 33.0 | -16.2 |
| | | | | 25 | 12 | 19.7 | 16.6 | 33.0 | -16.4 |
| | | | 64QAM | 25 | 25 | 19.7 | 16.6 | 33.0 | -16.4 |
| | | | | 50 | 0 | 19.6 | 16.5 | 33.0 | -16.5 |
| | | | | 1 | 0 | 18.6 | 15.5 | 33.0 | -17.5 |
| | | | | 1 | 25 | 18.3 | 15.2 | 33.0 | -17.8 |
| | | | | 1 | 49 | 18.5 | 15.4 | 33.0 | -17.6 |
| | | | | 25 | 0 | 18.5 | 15.4 | 33.0 | -17.6 |
| | | | | 25 | 12 | 18.5 | 15.4 | 33.0 | -17.6 |
| | | | | 25 | 25 | 18.5 | 15.4 | 33.0 | -17.6 |
| | | | 50 | 0 | 18.5 | 15.4 | 33.0 | -17.6 | |

| Antenna gain (dBi) | | -3.10 | | | | | | | | | | |
|--------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|------|------|-------|
| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) | | | |
| 15.0 | 132047 | 1717.5 | QPSK | 1 | 0 | 20.4 | 17.3 | 33.0 | -15.7 | | | |
| | | | | 1 | 37 | 20.2 | 17.1 | 33.0 | -15.9 | | | |
| | | | | 1 | 74 | 20.2 | 17.1 | 33.0 | -15.9 | | | |
| | | | | 36 | 0 | 20.3 | 17.2 | 33.0 | -15.8 | | | |
| | | | | 36 | 20 | 20.2 | 17.1 | 33.0 | -15.9 | | | |
| | | | | 36 | 39 | 20.3 | 17.2 | 33.0 | -15.8 | | | |
| | | | 16QAM | 75 | 0 | 20.2 | 17.1 | 33.0 | -15.9 | | | |
| | | | | 1 | 0 | 20.3 | 17.2 | 33.0 | -15.8 | | | |
| | | | | 1 | 37 | 20.1 | 17.0 | 33.0 | -16.0 | | | |
| | | | | 1 | 74 | 20.1 | 17.0 | 33.0 | -16.0 | | | |
| | | | | 36 | 0 | 19.9 | 16.8 | 33.0 | -16.2 | | | |
| | | | | 36 | 20 | 19.8 | 16.7 | 33.0 | -16.3 | | | |
| | | | 64QAM | 36 | 39 | 19.9 | 16.8 | 33.0 | -16.2 | | | |
| | | | | 75 | 0 | 19.8 | 16.7 | 33.0 | -16.3 | | | |
| | | | | 1 | 0 | 19.3 | 16.2 | 33.0 | -16.8 | | | |
| | | | | 1 | 37 | 19.0 | 15.9 | 33.0 | -17.1 | | | |
| | | | | 1 | 74 | 19.1 | 16.0 | 33.0 | -17.0 | | | |
| | | | | 36 | 0 | 18.9 | 15.8 | 33.0 | -17.2 | | | |
| | | | 15.0 | 132322 | 1745.0 | QPSK | 36 | 20 | 18.8 | 15.7 | 33.0 | -17.3 |
| | | | | | | | 36 | 39 | 18.9 | 15.8 | 33.0 | -17.2 |
| | | | | | | | 75 | 0 | 18.8 | 15.7 | 33.0 | -17.3 |
| 1 | 0 | 20.1 | | | | | 17.0 | 33.0 | -16.0 | | | |
| 1 | 37 | 19.9 | | | | | 16.8 | 33.0 | -16.2 | | | |
| 1 | 74 | 19.9 | | | | | 16.8 | 33.0 | -16.2 | | | |
| 16QAM | 36 | 0 | | | | 20.0 | 16.9 | 33.0 | -16.1 | | | |
| | 36 | 20 | | | | 20.1 | 17.0 | 33.0 | -16.0 | | | |
| | 36 | 39 | | | | 20.1 | 17.0 | 33.0 | -16.0 | | | |
| | 75 | 0 | | | | 20.1 | 17.0 | 33.0 | -16.0 | | | |
| | 1 | 0 | | | | 19.6 | 16.5 | 33.0 | -16.5 | | | |
| | 1 | 37 | | | | 19.5 | 16.4 | 33.0 | -16.6 | | | |
| 64QAM | 1 | 74 | | | | 19.4 | 16.3 | 33.0 | -16.7 | | | |
| | 36 | 0 | | | | 19.7 | 16.6 | 33.0 | -16.4 | | | |
| | 36 | 20 | | | | 19.7 | 16.6 | 33.0 | -16.4 | | | |
| | 36 | 39 | 19.7 | 16.6 | 33.0 | -16.4 | | | | | | |
| | 75 | 0 | 19.7 | 16.6 | 33.0 | -16.4 | | | | | | |
| | 1 | 0 | 19.0 | 15.9 | 33.0 | -17.1 | | | | | | |
| 64QAM | 1 | 37 | 18.9 | 15.8 | 33.0 | -17.2 | | | | | | |
| | 1 | 74 | 18.8 | 15.7 | 33.0 | -17.3 | | | | | | |
| | 36 | 0 | 18.7 | 15.6 | 33.0 | -17.4 | | | | | | |
| | 36 | 20 | 18.8 | 15.7 | 33.0 | -17.3 | | | | | | |
| | 36 | 39 | 18.7 | 15.6 | 33.0 | -17.4 | | | | | | |
| | 75 | 0 | 18.7 | 15.6 | 33.0 | -17.4 | | | | | | |

| Antenna gain (dBi) | | -3.10 | | | | | | | |
|--------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 15.0 | 132572 | 1772.5 | QPSK | 1 | 0 | 20.3 | 17.2 | 33.0 | -15.8 |
| | | | | 1 | 37 | 20.0 | 16.9 | 33.0 | -16.1 |
| | | | | 1 | 74 | 19.9 | 16.8 | 33.0 | -16.2 |
| | | | | 36 | 0 | 20.1 | 17.0 | 33.0 | -16.0 |
| | | | | 36 | 20 | 20.1 | 17.0 | 33.0 | -16.0 |
| | | | | 36 | 39 | 20.0 | 16.9 | 33.0 | -16.1 |
| | | | | 75 | 0 | 20.0 | 16.9 | 33.0 | -16.1 |
| | | | 16QAM | 1 | 0 | 19.9 | 16.8 | 33.0 | -16.2 |
| | | | | 1 | 37 | 19.6 | 16.5 | 33.0 | -16.5 |
| | | | | 1 | 74 | 19.4 | 16.3 | 33.0 | -16.7 |
| | | | | 36 | 0 | 19.5 | 16.4 | 33.0 | -16.6 |
| | | | | 36 | 20 | 19.7 | 16.6 | 33.0 | -16.4 |
| | | | | 36 | 39 | 19.5 | 16.4 | 33.0 | -16.6 |
| | | | | 75 | 0 | 19.5 | 16.4 | 33.0 | -16.6 |
| | | | 64QAM | 1 | 0 | 18.8 | 15.7 | 33.0 | -17.3 |
| | | | | 1 | 37 | 18.5 | 15.4 | 33.0 | -17.6 |
| | | | | 1 | 74 | 18.3 | 15.2 | 33.0 | -17.8 |
| | | | | 36 | 0 | 18.4 | 15.3 | 33.0 | -17.7 |
| | | | | 36 | 20 | 18.3 | 15.2 | 33.0 | -17.8 |
| | | | | 36 | 39 | 18.5 | 15.4 | 33.0 | -17.6 |
| | | | | 75 | 0 | 18.5 | 15.4 | 33.0 | -17.6 |

| Antenna gain (dBi) | | -3.10 | | | | | | | | | | |
|--------------------|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|------|------|-------|
| Bandwidth | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) | | | |
| 20.0 | 132072 | 1720.0 | QPSK | 1 | 0 | 20.3 | 17.2 | 33.0 | -15.8 | | | |
| | | | | 1 | 49 | 20.2 | 17.1 | 33.0 | -15.9 | | | |
| | | | | 1 | 99 | 20.2 | 17.1 | 33.0 | -15.9 | | | |
| | | | | 50 | 0 | 20.3 | 17.2 | 33.0 | -15.8 | | | |
| | | | | 50 | 24 | 20.3 | 17.2 | 33.0 | -15.8 | | | |
| | | | | 50 | 50 | 20.2 | 17.1 | 33.0 | -15.9 | | | |
| | | | 16QAM | 1 | 0 | 20.5 | 17.4 | 33.0 | -15.6 | | | |
| | | | | 1 | 49 | 20.3 | 17.2 | 33.0 | -15.8 | | | |
| | | | | 1 | 99 | 20.4 | 17.3 | 33.0 | -15.7 | | | |
| | | | | 50 | 0 | 19.8 | 16.7 | 33.0 | -16.3 | | | |
| | | | | 50 | 24 | 19.8 | 16.7 | 33.0 | -16.3 | | | |
| | | | | 50 | 50 | 19.7 | 16.6 | 33.0 | -16.4 | | | |
| | | | 64QAM | 1 | 0 | 19.4 | 16.3 | 33.0 | -16.7 | | | |
| | | | | 1 | 49 | 19.1 | 16.0 | 33.0 | -17.0 | | | |
| | | | | 1 | 99 | 19.2 | 16.1 | 33.0 | -16.9 | | | |
| | | | | 50 | 0 | 19.1 | 16.0 | 33.0 | -17.0 | | | |
| | | | | 50 | 24 | 19.1 | 16.0 | 33.0 | -17.0 | | | |
| | | | | 50 | 50 | 19.0 | 15.9 | 33.0 | -17.1 | | | |
| | | | 20.0 | 132322 | 1745.0 | QPSK | 1 | 0 | 20.4 | 17.3 | 33.0 | -15.7 |
| | | | | | | | 1 | 49 | 20.1 | 17.0 | 33.0 | -16.0 |
| | | | | | | | 1 | 99 | 20.0 | 16.9 | 33.0 | -16.1 |
| 50 | 0 | 20.3 | | | | | 17.2 | 33.0 | -15.8 | | | |
| 50 | 24 | 20.2 | | | | | 17.1 | 33.0 | -15.9 | | | |
| 50 | 50 | 20.1 | | | | | 17.0 | 33.0 | -16.0 | | | |
| 16QAM | 1 | 0 | | | | 20.2 | 17.1 | 33.0 | -15.9 | | | |
| | 1 | 49 | | | | 19.8 | 16.7 | 33.0 | -16.3 | | | |
| | 1 | 99 | | | | 19.8 | 16.7 | 33.0 | -16.3 | | | |
| | 50 | 0 | | | | 19.7 | 16.6 | 33.0 | -16.4 | | | |
| | 50 | 24 | | | | 19.7 | 16.6 | 33.0 | -16.4 | | | |
| | 50 | 50 | | | | 19.6 | 16.5 | 33.0 | -16.5 | | | |
| 64QAM | 1 | 0 | | | | 19.7 | 16.6 | 33.0 | -16.4 | | | |
| | 1 | 49 | | | | 19.0 | 15.9 | 33.0 | -17.1 | | | |
| | 1 | 99 | | | | 18.9 | 15.8 | 33.0 | -17.2 | | | |
| | 1 | 99 | | | | 18.7 | 15.6 | 33.0 | -17.4 | | | |
| | 50 | 0 | | | | 18.8 | 15.7 | 33.0 | -17.3 | | | |
| | 50 | 24 | | | | 18.7 | 15.6 | 33.0 | -17.4 | | | |
| | 50 | 50 | | | | 18.5 | 15.4 | 33.0 | -17.6 | | | |
| | 100 | 0 | | | | 18.7 | 15.6 | 33.0 | -17.4 | | | |

| Antenna gain (dBi) | | -3.10 | | | | | | | |
|--------------------|------------|--------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| Bandwidth | UL Channel | -1.5 | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 20.0 | 132572 | 1770.0 | QPSK | 1 | 0 | 20.4 | 17.3 | 33.0 | -15.7 |
| | | | | 1 | 12 | 20.1 | 17.0 | 33.0 | -16.0 |
| | | | | 1 | 24 | 20.1 | 17.0 | 33.0 | -16.0 |
| | | | | 12 | 0 | 20.3 | 17.2 | 33.0 | -15.8 |
| | | | | 12 | 7 | 20.3 | 17.2 | 33.0 | -15.8 |
| | | | | 12 | 13 | 20.1 | 17.0 | 33.0 | -16.0 |
| | | | | 25 | 0 | 20.3 | 17.2 | 33.0 | -15.8 |
| | | | 16QAM | 1 | 0 | 20.2 | 17.1 | 33.0 | -15.9 |
| | | | | 1 | 12 | 19.8 | 16.7 | 33.0 | -16.3 |
| | | | | 1 | 24 | 19.8 | 16.7 | 33.0 | -16.3 |
| | | | | 12 | 0 | 19.9 | 16.8 | 33.0 | -16.2 |
| | | | | 12 | 7 | 19.8 | 16.7 | 33.0 | -16.3 |
| | | | | 12 | 13 | 19.6 | 16.5 | 33.0 | -16.5 |
| | | | | 25 | 0 | 19.8 | 16.7 | 33.0 | -16.3 |
| | | | 64QAM | 1 | 0 | 18.9 | 15.8 | 33.0 | -17.2 |
| | | | | 1 | 12 | 18.5 | 15.4 | 33.0 | -17.6 |
| | | | | 1 | 24 | 18.5 | 15.4 | 33.0 | -17.6 |
| | | | | 12 | 0 | 18.6 | 15.5 | 33.0 | -17.5 |
| | | | | 12 | 7 | 18.5 | 15.4 | 33.0 | -17.6 |
| | | | | 12 | 13 | 18.3 | 15.2 | 33.0 | -17.8 |
| | | | | 25 | 0 | 18.5 | 15.4 | 33.0 | -17.6 |

12. RADIATED TEST RESULTS

12.1. FIELD STRENGTH OF SPURIOUS RADIATION

RULE PART(S)

FCC: §2.1053 and §27.53

FCC LIMIT

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

Part 27: (m)(4) (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 than $43 + 10 \log (P)$ 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.

TEST PROCEDURE

For Cellular equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. 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. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 100 kHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

For PCS equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. 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. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

12.1.1. SPURIOUS RADIATION PLOTS

LTE Band 66

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: SOMC
 Project #: 11740661 C2PC
 Date: 8/30/2017
 Test Engineer: 43574 JS
 Configuration: EUT + HS + Charger
 Location: Chamber C
 Mode: LTE_QPSK Band 66 Harmonics, 1.4MHz Bandwidth

| F Mhz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|--------------------|------------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Low Ch, 1710.7MHz | | | | | | | | | |
| 3421.40 | -18.3 | V | 3.0 | 35.4 | 1.0 | -53.3 | -13.0 | -40.3 | |
| 5132.10 | -14.0 | V | 3.0 | 35.4 | 1.0 | -49.4 | -13.0 | -35.4 | |
| 6842.80 | -12.6 | V | 3.0 | 35.7 | 1.0 | -47.2 | -13.0 | -34.2 | |
| 3421.40 | -19.0 | H | 3.0 | 35.1 | 1.0 | -54.0 | -13.0 | -41.0 | |
| 5132.10 | -14.2 | H | 3.0 | 35.4 | 1.0 | -48.6 | -13.0 | -35.6 | |
| 6842.80 | -11.6 | H | 3.0 | 35.7 | 1.0 | -46.2 | -13.0 | -33.2 | |
| Mid Ch, 1745MHz | | | | | | | | | |
| 3490.00 | -18.7 | V | 3.0 | 36.0 | 1.0 | -53.7 | -13.0 | -40.7 | |
| 5235.00 | -14.1 | V | 3.0 | 35.4 | 1.0 | -48.5 | -13.0 | -35.5 | |
| 6980.00 | -12.7 | V | 3.0 | 35.7 | 1.0 | -47.4 | -13.0 | -34.4 | |
| 3490.00 | -18.1 | H | 3.0 | 36.0 | 1.0 | -53.1 | -13.0 | -40.1 | |
| 5235.00 | -14.3 | H | 3.0 | 35.4 | 1.0 | -48.7 | -13.0 | -35.7 | |
| 6980.00 | -11.9 | H | 3.0 | 35.7 | 1.0 | -46.6 | -13.0 | -33.6 | |
| High Ch, 1779.3MHz | | | | | | | | | |
| 3558.60 | -18.0 | V | 3.0 | 36.0 | 1.0 | -53.0 | -13.0 | -40.0 | |
| 5337.90 | -14.0 | V | 3.0 | 35.4 | 1.0 | -48.5 | -13.0 | -35.5 | |
| 7117.20 | -12.3 | V | 3.0 | 35.7 | 1.0 | -47.0 | -13.0 | -34.0 | |
| 3558.60 | -18.7 | H | 3.0 | 36.0 | 1.0 | -53.6 | -13.0 | -40.6 | |
| 5337.90 | -13.7 | H | 3.0 | 35.4 | 1.0 | -48.2 | -13.0 | -35.2 | |
| 7117.20 | -11.6 | H | 3.0 | 35.7 | 1.0 | -46.3 | -13.0 | -33.3 | |

LTE B66 1.4MHz QPSK

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: SOMC
 Project #: 11740661 C2PC
 Date: 8/30/2017
 Test Engineer: 43574 JS
 Configuration: EUT + HS + Charger
 Location: Chamber C
 Mode: LTE_16QAM Band 66 Harmonics, 1.4MHz Bandwidth

| F Mhz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|--------------------|------------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Low Ch, 1710.7MHz | | | | | | | | | |
| 3421.40 | -18.1 | V | 3.0 | 36.1 | 1.0 | -53.2 | -13.0 | -40.2 | |
| 5132.10 | -13.9 | V | 3.0 | 35.4 | 1.0 | -48.3 | -13.0 | -35.3 | |
| 6842.80 | -13.1 | V | 3.0 | 35.7 | 1.0 | -47.8 | -13.0 | -34.8 | |
| 3421.40 | -19.2 | H | 3.0 | 36.1 | 1.0 | -54.2 | -13.0 | -41.2 | |
| 5132.10 | -14.2 | H | 3.0 | 35.4 | 1.0 | -48.7 | -13.0 | -35.7 | |
| 6842.80 | -11.8 | H | 3.0 | 35.7 | 1.0 | -46.4 | -13.0 | -33.4 | |
| Mid Ch, 1745MHz | | | | | | | | | |
| 3490.00 | -18.4 | V | 3.0 | 36.0 | 1.0 | -53.4 | -13.0 | -40.4 | |
| 5235.00 | -13.6 | V | 3.0 | 35.4 | 1.0 | -48.0 | -13.0 | -35.0 | |
| 6980.00 | -13.1 | V | 3.0 | 35.7 | 1.0 | -47.3 | -13.0 | -34.7 | |
| 3490.00 | -18.6 | H | 3.0 | 36.0 | 1.0 | -53.6 | -13.0 | -40.6 | |
| 5235.00 | -13.7 | H | 3.0 | 35.4 | 1.0 | -48.1 | -13.0 | -35.1 | |
| 6980.00 | -11.6 | H | 3.0 | 35.7 | 1.0 | -46.3 | -13.0 | -33.3 | |
| High Ch, 1779.3MHz | | | | | | | | | |
| 3558.60 | -18.3 | V | 3.0 | 36.0 | 1.0 | -53.3 | -13.0 | -40.3 | |
| 5337.90 | -14.2 | V | 3.0 | 35.4 | 1.0 | -48.7 | -13.0 | -35.7 | |
| 7117.20 | -12.4 | V | 3.0 | 35.7 | 1.0 | -47.1 | -13.0 | -34.1 | |
| 3558.60 | -18.7 | H | 3.0 | 36.0 | 1.0 | -53.7 | -13.0 | -40.7 | |
| 5337.90 | -14.0 | H | 3.0 | 35.4 | 1.0 | -48.4 | -13.0 | -35.4 | |
| 7117.20 | -11.4 | H | 3.0 | 35.7 | 1.0 | -46.1 | -13.0 | -33.1 | |

LTE B66 1.4MHz 16QAM

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: SOMC
 Project #: 11740661 C2PC
 Date: 8/30/2017
 Test Engineer: 43574 JS
 Configuration: EUT + HS + Charger
 Location: Chamber C
 Mode: LTE_QPSK Band 66 Harmonics, 3MHz Bandwidth

| F Mhz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|--------------------|------------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Low Ch, 1711.5MHz | | | | | | | | | |
| 3423.00 | -18.6 | V | 3.0 | 36.1 | 1.0 | -53.7 | -13.0 | -40.7 | |
| 5134.50 | -13.9 | V | 3.0 | 35.4 | 1.0 | -48.4 | -13.0 | -35.4 | |
| 6846.00 | -12.5 | V | 3.0 | 35.7 | 1.0 | -48.2 | -13.0 | -35.2 | |
| 3423.00 | -18.8 | H | 3.0 | 36.1 | 1.0 | -53.9 | -13.0 | -40.9 | |
| 5134.50 | -14.0 | H | 3.0 | 35.4 | 1.0 | -48.4 | -13.0 | -35.4 | |
| 6846.00 | -12.5 | H | 3.0 | 35.7 | 1.0 | -47.1 | -13.0 | -34.1 | |
| Mid Ch, 1745MHz | | | | | | | | | |
| 3490.00 | -18.6 | V | 3.0 | 36.0 | 1.0 | -53.6 | -13.0 | -40.6 | |
| 5235.00 | -14.0 | V | 3.0 | 35.4 | 1.0 | -48.4 | -13.0 | -35.4 | |
| 6980.00 | -13.4 | V | 3.0 | 35.7 | 1.0 | -48.1 | -13.0 | -35.1 | |
| 3490.00 | -18.8 | H | 3.0 | 36.0 | 1.0 | -53.8 | -13.0 | -40.8 | |
| 5235.00 | -13.9 | H | 3.0 | 35.4 | 1.0 | -48.3 | -13.0 | -35.3 | |
| 6980.00 | -12.3 | H | 3.0 | 35.7 | 1.0 | -47.0 | -13.0 | -34.0 | |
| High Ch, 1778.5MHz | | | | | | | | | |
| 3557.00 | -18.3 | V | 3.0 | 36.0 | 1.0 | -53.3 | -13.0 | -40.3 | |
| 5335.50 | -13.8 | V | 3.0 | 35.4 | 1.0 | -48.2 | -13.0 | -35.2 | |
| 7114.00 | -13.0 | V | 3.0 | 35.7 | 1.0 | -47.7 | -13.0 | -34.7 | |
| 3557.00 | -18.3 | H | 3.0 | 36.0 | 1.0 | -53.2 | -13.0 | -40.2 | |
| 5335.50 | -13.3 | H | 3.0 | 35.4 | 1.0 | -47.7 | -13.0 | -34.7 | |
| 7114.00 | -11.9 | H | 3.0 | 35.7 | 1.0 | -46.6 | -13.0 | -33.6 | |

LTE B66 3MHz QPSK

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: SOMC
 Project #: 11740661 C2PC
 Date: 8/30/2017
 Test Engineer: 43574 JS
 Configuration: EUT + HS + Charger
 Location: Chamber C
 Mode: LTE_16QAM Band 66 Harmonics, 3MHz Bandwidth

| F Mhz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|--------------------|------------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Low Ch, 1711.5MHz | | | | | | | | | |
| 3423.00 | -18.8 | V | 3.0 | 36.1 | 1.0 | -53.8 | -13.0 | -40.8 | |
| 5134.50 | -14.2 | V | 3.0 | 35.4 | 1.0 | -48.6 | -13.0 | -35.6 | |
| 6846.00 | -13.4 | V | 3.0 | 35.7 | 1.0 | -48.0 | -13.0 | -35.0 | |
| 3423.00 | -19.2 | H | 3.0 | 36.1 | 1.0 | -54.2 | -13.0 | -41.2 | |
| 5134.50 | -14.0 | H | 3.0 | 35.4 | 1.0 | -48.4 | -13.0 | -35.4 | |
| 6846.00 | -12.3 | H | 3.0 | 35.7 | 1.0 | -47.0 | -13.0 | -34.0 | |
| Mid Ch, 1745MHz | | | | | | | | | |
| 3490.00 | -18.5 | V | 3.0 | 36.0 | 1.0 | -53.5 | -13.0 | -40.5 | |
| 5235.00 | -13.6 | V | 3.0 | 35.4 | 1.0 | -48.0 | -13.0 | -35.0 | |
| 6980.00 | -13.9 | V | 3.0 | 35.7 | 1.0 | -48.6 | -13.0 | -35.6 | |
| 3490.00 | -19.0 | H | 3.0 | 36.0 | 1.0 | -54.0 | -13.0 | -41.0 | |
| 5235.00 | -14.2 | H | 3.0 | 35.4 | 1.0 | -48.6 | -13.0 | -35.6 | |
| 6980.00 | -12.3 | H | 3.0 | 35.7 | 1.0 | -47.0 | -13.0 | -34.0 | |
| High Ch, 1778.5MHz | | | | | | | | | |
| 3557.00 | -18.6 | V | 3.0 | 36.0 | 1.0 | -53.6 | -13.0 | -40.6 | |
| 5335.50 | -14.1 | V | 3.0 | 35.4 | 1.0 | -48.6 | -13.0 | -35.6 | |
| 7114.00 | -13.0 | V | 3.0 | 35.7 | 1.0 | -47.6 | -13.0 | -34.6 | |
| 3557.00 | -18.5 | H | 3.0 | 36.0 | 1.0 | -53.4 | -13.0 | -40.4 | |
| 5335.50 | -13.5 | H | 3.0 | 35.4 | 1.0 | -47.9 | -13.0 | -34.9 | |
| 7114.00 | -12.1 | H | 3.0 | 35.7 | 1.0 | -46.8 | -13.0 | -33.8 | |

LTE B66 3MHz 16QAM

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: SOMC
 Project #: 11740661 C2PC
 Date: 8/30/2017
 Test Engineer: 43574 JS
 Configuration: EUT + HS + Charger
 Location: Chamber C
 Mode: LTE_QPSK Band 66 Harmonics, 5MHz Bandwidth

| F MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|---------------------------|---------------------|--------------------|-----------------|----------------|----------------|--------------|----------------|---------------|-------|
| Low Ch, 1712.5MHz | | | | | | | | | |
| 3425.00 | -18.9 | V | 3.0 | 36.1 | 1.0 | -53.9 | -13.0 | -40.9 | |
| 5137.50 | -14.3 | V | 3.0 | 35.4 | 1.0 | -48.8 | -13.0 | -35.8 | |
| 6850.00 | -13.7 | V | 3.0 | 35.7 | 1.0 | -48.4 | -13.0 | -35.4 | |
| 3425.00 | -19.3 | H | 3.0 | 36.1 | 1.0 | -54.3 | -13.0 | -41.3 | |
| 5137.50 | -14.3 | H | 3.0 | 35.4 | 1.0 | -48.7 | -13.0 | -35.7 | |
| 6850.00 | -12.9 | H | 3.0 | 35.7 | 1.0 | -47.5 | -13.0 | -34.5 | |
| Mid Ch, 1745MHz | | | | | | | | | |
| 3490.00 | -18.8 | V | 3.0 | 36.0 | 1.0 | -53.8 | -13.0 | -40.8 | |
| 5235.00 | -14.2 | V | 3.0 | 35.4 | 1.0 | -48.7 | -13.0 | -35.7 | |
| 6980.00 | -13.5 | V | 3.0 | 35.7 | 1.0 | -48.2 | -13.0 | -35.2 | |
| 3490.00 | -19.0 | H | 3.0 | 36.0 | 1.0 | -54.0 | -13.0 | -41.0 | |
| 5235.00 | -14.2 | H | 3.0 | 35.4 | 1.0 | -48.7 | -13.0 | -35.7 | |
| 6980.00 | -12.5 | H | 3.0 | 35.7 | 1.0 | -47.2 | -13.0 | -34.2 | |
| High Ch, 1777.5MHz | | | | | | | | | |
| 3555.00 | -18.6 | V | 3.0 | 36.0 | 1.0 | -53.6 | -13.0 | -40.6 | |
| 5332.50 | -14.1 | V | 3.0 | 35.4 | 1.0 | -48.6 | -13.0 | -35.6 | |
| 7110.00 | -13.3 | V | 3.0 | 35.7 | 1.0 | -48.2 | -13.0 | -35.2 | |
| 3555.00 | -18.9 | H | 3.0 | 36.0 | 1.0 | -53.8 | -13.0 | -40.8 | |
| 5332.50 | -14.3 | H | 3.0 | 35.4 | 1.0 | -48.7 | -13.0 | -35.7 | |
| 7110.00 | -12.5 | H | 3.0 | 35.7 | 1.0 | -47.2 | -13.0 | -34.2 | |

LTE B66 5MHz QPSK

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: SOMC
 Project #: 11740661 C2PC
 Date: 8/30/2017
 Test Engineer: 43574 JS
 Configuration: EUT + HS + Charger
 Location: Chamber C
 Mode: LTE_16QAM Band 66 Harmonics, 5MHz Bandwidth

| F MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|---------------------------|---------------------|--------------------|-----------------|----------------|----------------|--------------|----------------|---------------|-------|
| Low Ch, 1712.5MHz | | | | | | | | | |
| 3425.00 | -18.7 | V | 3.0 | 36.1 | 1.0 | -53.7 | -13.0 | -40.7 | |
| 5137.50 | -14.5 | V | 3.0 | 35.4 | 1.0 | -48.9 | -13.0 | -35.9 | |
| 6850.00 | -13.8 | V | 3.0 | 35.7 | 1.0 | -48.5 | -13.0 | -35.5 | |
| 3425.00 | -19.4 | H | 3.0 | 36.1 | 1.0 | -54.5 | -13.0 | -41.5 | |
| 5137.50 | -14.5 | H | 3.0 | 35.4 | 1.0 | -48.9 | -13.0 | -35.9 | |
| 6850.00 | -9.8 | H | 3.0 | 35.7 | 1.0 | -44.5 | -13.0 | -31.5 | |
| Mid Ch, 1745MHz | | | | | | | | | |
| 3490.00 | -17.9 | V | 3.0 | 36.0 | 1.0 | -53.0 | -13.0 | -40.0 | |
| 5235.00 | -14.4 | V | 3.0 | 35.4 | 1.0 | -48.8 | -13.0 | -35.8 | |
| 6980.00 | -13.7 | V | 3.0 | 35.7 | 1.0 | -48.4 | -13.0 | -35.4 | |
| 3490.00 | -18.8 | H | 3.0 | 36.0 | 1.0 | -53.9 | -13.0 | -40.9 | |
| 5235.00 | -14.5 | H | 3.0 | 35.4 | 1.0 | -48.9 | -13.0 | -35.9 | |
| 6980.00 | -12.7 | H | 3.0 | 35.7 | 1.0 | -47.4 | -13.0 | -34.4 | |
| High Ch, 1777.5MHz | | | | | | | | | |
| 3555.00 | -18.8 | V | 3.0 | 36.0 | 1.0 | -53.8 | -13.0 | -40.8 | |
| 5332.50 | -14.3 | V | 3.0 | 35.4 | 1.0 | -48.7 | -13.0 | -35.7 | |
| 7110.00 | -13.4 | V | 3.0 | 35.7 | 1.0 | -48.1 | -13.0 | -35.1 | |
| 3555.00 | -18.7 | H | 3.0 | 36.0 | 1.0 | -53.6 | -13.0 | -40.6 | |
| 5332.50 | -14.5 | H | 3.0 | 35.4 | 1.0 | -48.9 | -13.0 | -35.9 | |
| 7110.00 | -9.7 | H | 3.0 | 35.7 | 1.0 | -44.4 | -13.0 | -31.4 | |

LTE B66 5MHz 16QAM

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: SOMC
 Project #: 11740661 C2PC
 Date: 8/30/2017
 Test Engineer: 43574 JS
 Configuration: EUT + HS + Charger
 Location: Chamber C
 Mode: LTE_QPSK Band 66 Harmonics, 10MHz Bandwidth

| F MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|-------------------------|---------------------|--------------------|-----------------|----------------|----------------|--------------|----------------|---------------|-------|
| Low Ch, 1715MHz | | | | | | | | | |
| 3430.00 | -18.5 | V | 3.0 | 36.1 | 1.0 | -53.6 | -13.0 | -40.6 | |
| 5145.00 | -14.4 | V | 3.0 | 35.4 | 1.0 | -48.9 | -13.0 | -35.9 | |
| 6860.00 | -10.9 | V | 3.0 | 35.7 | 1.0 | -45.6 | -13.0 | -32.6 | |
| 3430.00 | -18.9 | H | 3.0 | 36.1 | 1.0 | -54.0 | -13.0 | -41.0 | |
| 5145.00 | -14.8 | H | 3.0 | 35.4 | 1.0 | -49.2 | -13.0 | -36.2 | |
| 6860.00 | -12.7 | H | 3.0 | 35.7 | 1.0 | -47.3 | -13.0 | -34.3 | |
| Mid Ch, 1745MHz | | | | | | | | | |
| 3490.00 | -18.7 | V | 3.0 | 36.0 | 1.0 | -53.8 | -13.0 | -40.8 | |
| 5235.00 | -14.4 | V | 3.0 | 35.4 | 1.0 | -48.8 | -13.0 | -35.8 | |
| 6980.00 | -13.8 | V | 3.0 | 35.7 | 1.0 | -48.5 | -13.0 | -35.5 | |
| 3490.00 | -18.9 | H | 3.0 | 36.0 | 1.0 | -53.9 | -13.0 | -40.9 | |
| 5235.00 | -14.7 | H | 3.0 | 35.4 | 1.0 | -49.1 | -13.0 | -36.1 | |
| 6980.00 | -12.5 | H | 3.0 | 35.7 | 1.0 | -47.2 | -13.0 | -34.2 | |
| High Ch, 1775MHz | | | | | | | | | |
| 3550.00 | -18.6 | V | 3.0 | 36.0 | 1.0 | -53.6 | -13.0 | -40.6 | |
| 5325.00 | -14.2 | V | 3.0 | 35.4 | 1.0 | -48.7 | -13.0 | -35.7 | |
| 7100.00 | -13.6 | V | 3.0 | 35.7 | 1.0 | -48.3 | -13.0 | -35.3 | |
| 3550.00 | -18.8 | H | 3.0 | 36.0 | 1.0 | -53.7 | -13.0 | -40.7 | |
| 5325.00 | -14.6 | H | 3.0 | 35.4 | 1.0 | -49.0 | -13.0 | -36.0 | |
| 7100.00 | -12.3 | H | 3.0 | 35.7 | 1.0 | -47.0 | -13.0 | -34.0 | |

LTE B66 10MHz QPSK

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: SOMC
 Project #: 11740661 C2PC
 Date: 8/30/2017
 Test Engineer: 43574 JS
 Configuration: EUT + HS + Charger
 Location: Chamber C
 Mode: LTE_16QAM Band 66 Harmonics, 10MHz Bandwidth

| F MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|-------------------------|---------------------|--------------------|-----------------|----------------|----------------|--------------|----------------|---------------|-------|
| Low Ch, 1715MHz | | | | | | | | | |
| 3430.00 | -18.3 | V | 3.0 | 36.1 | 1.0 | -53.3 | -13.0 | -40.3 | |
| 5145.00 | -14.2 | V | 3.0 | 35.4 | 1.0 | -48.7 | -13.0 | -35.7 | |
| 6860.00 | -10.8 | V | 3.0 | 35.7 | 1.0 | -45.5 | -13.0 | -32.5 | |
| 3430.00 | -18.7 | H | 3.0 | 36.1 | 1.0 | -53.8 | -13.0 | -40.8 | |
| 5145.00 | -14.9 | H | 3.0 | 35.4 | 1.0 | -49.3 | -13.0 | -36.3 | |
| 6860.00 | -12.8 | H | 3.0 | 35.7 | 1.0 | -47.5 | -13.0 | -34.5 | |
| Mid Ch, 1745MHz | | | | | | | | | |
| 3490.00 | -18.7 | V | 3.0 | 36.0 | 1.0 | -53.7 | -13.0 | -40.7 | |
| 5235.00 | -14.0 | V | 3.0 | 35.4 | 1.0 | -48.4 | -13.0 | -35.4 | |
| 6980.00 | -13.3 | V | 3.0 | 35.7 | 1.0 | -48.0 | -13.0 | -35.0 | |
| 3490.00 | -18.7 | H | 3.0 | 36.0 | 1.0 | -53.7 | -13.0 | -40.7 | |
| 5235.00 | -13.8 | H | 3.0 | 35.4 | 1.0 | -48.2 | -13.0 | -35.2 | |
| 6980.00 | -12.4 | H | 3.0 | 35.7 | 1.0 | -47.1 | -13.0 | -34.1 | |
| High Ch, 1775MHz | | | | | | | | | |
| 3550.00 | -18.6 | V | 3.0 | 36.0 | 1.0 | -53.5 | -13.0 | -40.5 | |
| 5325.00 | -14.1 | V | 3.0 | 35.4 | 1.0 | -48.6 | -13.0 | -35.6 | |
| 7100.00 | -13.5 | V | 3.0 | 35.7 | 1.0 | -48.2 | -13.0 | -35.2 | |
| 3550.00 | -18.7 | H | 3.0 | 36.0 | 1.0 | -53.7 | -13.0 | -40.7 | |
| 5325.00 | -14.5 | H | 3.0 | 35.4 | 1.0 | -49.0 | -13.0 | -36.0 | |
| 7100.00 | -12.4 | H | 3.0 | 35.7 | 1.0 | -47.1 | -13.0 | -34.1 | |

LTE B66 10MHz 16QAM

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: SOMC
 Project #: 11740661 C2PC
 Date: 8/30/2017
 Test Engineer: 43574 JS
 Configuration: EUT + HS + Charger
 Location: Chamber C
 Mode: LTE_QPSK Band 66 Harmonics, 15MHz Bandwidth

| F MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|---------------------------|---------------------|--------------------|-----------------|----------------|----------------|--------------|----------------|---------------|-------|
| Low Ch, 1717.5MHz | | | | | | | | | |
| 3435.00 | -18.9 | V | 3.0 | 36.1 | 1.0 | -54.0 | -13.0 | -41.0 | |
| 5152.50 | -14.8 | V | 3.0 | 35.4 | 1.0 | -49.2 | -13.0 | -36.2 | |
| 6870.00 | -14.0 | V | 3.0 | 35.7 | 1.0 | -48.7 | -13.0 | -35.7 | |
| 3435.00 | -18.9 | H | 3.0 | 36.1 | 1.0 | -54.0 | -13.0 | -41.0 | |
| 5152.50 | -14.3 | H | 3.0 | 35.4 | 1.0 | -48.7 | -13.0 | -35.7 | |
| 6870.00 | -13.2 | H | 3.0 | 35.7 | 1.0 | -47.9 | -13.0 | -34.9 | |
| Mid Ch, 1745MHz | | | | | | | | | |
| 3490.00 | -18.6 | V | 3.0 | 36.0 | 1.0 | -53.6 | -13.0 | -40.6 | |
| 5235.00 | -14.9 | V | 3.0 | 35.4 | 1.0 | -49.3 | -13.0 | -36.3 | |
| 6980.00 | -13.4 | V | 3.0 | 35.7 | 1.0 | -48.1 | -13.0 | -35.1 | |
| 3490.00 | -18.6 | H | 3.0 | 36.0 | 1.0 | -53.6 | -13.0 | -40.6 | |
| 5235.00 | -14.0 | H | 3.0 | 35.4 | 1.0 | -48.4 | -13.0 | -35.4 | |
| 6980.00 | -12.9 | H | 3.0 | 35.7 | 1.0 | -47.5 | -13.0 | -34.5 | |
| High Ch, 1772.5MHz | | | | | | | | | |
| 3545.00 | -18.5 | V | 3.0 | 36.0 | 1.0 | -53.4 | -13.0 | -40.4 | |
| 5317.50 | -13.8 | V | 3.0 | 35.4 | 1.0 | -48.2 | -13.0 | -35.2 | |
| 7090.00 | -11.7 | V | 3.0 | 35.7 | 1.0 | -46.4 | -13.0 | -33.4 | |
| 3545.00 | -18.5 | H | 3.0 | 36.0 | 1.0 | -53.5 | -13.0 | -40.5 | |
| 5317.50 | -14.0 | H | 3.0 | 35.4 | 1.0 | -48.5 | -13.0 | -35.5 | |
| 7090.00 | -10.9 | H | 3.0 | 35.7 | 1.0 | -45.6 | -13.0 | -32.6 | |

LTE B66 15MHz QPSK

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: SOMC
 Project #: 11740661 C2PC
 Date: 8/30/2017
 Test Engineer: 43574 JS
 Configuration: EUT + HS + Charger
 Location: Chamber C
 Mode: LTE_16QAM Band 66 Harmonics, 15MHz Bandwidth

| F MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|---------------------------|---------------------|--------------------|-----------------|----------------|----------------|--------------|----------------|---------------|-------|
| Low Ch, 1717.5MHz | | | | | | | | | |
| 3435.00 | -19.2 | V | 3.0 | 36.1 | 1.0 | -54.3 | -13.0 | -41.3 | |
| 5152.50 | -15.1 | V | 3.0 | 35.4 | 1.0 | -49.5 | -13.0 | -36.5 | |
| 6870.00 | -14.3 | V | 3.0 | 35.7 | 1.0 | -48.9 | -13.0 | -35.9 | |
| 3435.00 | -19.0 | H | 3.0 | 36.1 | 1.0 | -54.1 | -13.0 | -41.1 | |
| 5152.50 | -14.5 | H | 3.0 | 35.4 | 1.0 | -49.0 | -13.0 | -36.0 | |
| 6870.00 | -13.1 | H | 3.0 | 35.7 | 1.0 | -47.7 | -13.0 | -34.7 | |
| Mid Ch, 1745MHz | | | | | | | | | |
| 3490.00 | -18.8 | V | 3.0 | 36.0 | 1.0 | -53.8 | -13.0 | -40.8 | |
| 5235.00 | -14.9 | V | 3.0 | 35.4 | 1.0 | -49.3 | -13.0 | -36.3 | |
| 6980.00 | -13.5 | V | 3.0 | 35.7 | 1.0 | -48.2 | -13.0 | -35.2 | |
| 3490.00 | -18.7 | H | 3.0 | 36.0 | 1.0 | -53.7 | -13.0 | -40.7 | |
| 5235.00 | -13.8 | H | 3.0 | 35.4 | 1.0 | -48.2 | -13.0 | -35.2 | |
| 6980.00 | -12.8 | H | 3.0 | 35.7 | 1.0 | -47.5 | -13.0 | -34.5 | |
| High Ch, 1772.5MHz | | | | | | | | | |
| 3545.00 | -18.7 | V | 3.0 | 36.0 | 1.0 | -53.7 | -13.0 | -40.7 | |
| 5317.50 | -14.2 | V | 3.0 | 35.4 | 1.0 | -48.7 | -13.0 | -35.7 | |
| 7090.00 | -12.0 | V | 3.0 | 35.7 | 1.0 | -46.7 | -13.0 | -33.7 | |
| 3545.00 | -18.6 | H | 3.0 | 36.0 | 1.0 | -53.6 | -13.0 | -40.6 | |
| 5317.50 | -14.0 | H | 3.0 | 35.4 | 1.0 | -48.4 | -13.0 | -35.4 | |
| 7090.00 | -10.6 | H | 3.0 | 35.7 | 1.0 | -45.3 | -13.0 | -32.3 | |

LTE B66 15MHz 16QAM

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: SOMC
 Project #: 11740661 C2PC
 Date: 8/30/2017
 Test Engineer: 39703 HK
 Configuration: EUT + HS + Charger
 Location: Chamber C
 Mode: LTE_QPSK Band 66 Harmonics, 20MHz Bandwidth

| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|-------------------------|------------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Low Ch, 1720MHz | | | | | | | | | |
| 3440.00 | -20.8 | V | 3.0 | 36.0 | 1.0 | -55.9 | -13.0 | -42.9 | |
| 5160.00 | -17.0 | V | 3.0 | 35.4 | 1.0 | -51.4 | -13.0 | -38.4 | |
| 6880.00 | -15.4 | V | 3.0 | 35.7 | 1.0 | -50.1 | -13.0 | -37.1 | |
| 3440.00 | -21.8 | H | 3.0 | 36.0 | 1.0 | -56.9 | -13.0 | -43.9 | |
| 5160.00 | -16.6 | H | 3.0 | 35.4 | 1.0 | -51.1 | -13.0 | -38.1 | |
| 6880.00 | -14.9 | H | 3.0 | 35.7 | 1.0 | -49.6 | -13.0 | -36.6 | |
| Mid Ch, 1745MHz | | | | | | | | | |
| 3490.00 | -21.4 | V | 3.0 | 36.0 | 1.0 | -56.4 | -13.0 | -43.4 | |
| 5235.00 | -17.1 | V | 3.0 | 35.4 | 1.0 | -51.5 | -13.0 | -38.5 | |
| 6980.00 | -15.2 | V | 3.0 | 35.7 | 1.0 | -49.9 | -13.0 | -36.9 | |
| 3490.00 | -21.5 | H | 3.0 | 36.0 | 1.0 | -56.6 | -13.0 | -43.6 | |
| 5235.00 | -16.2 | H | 3.0 | 35.4 | 1.0 | -50.7 | -13.0 | -37.7 | |
| 6980.00 | -15.0 | H | 3.0 | 35.7 | 1.0 | -49.7 | -13.0 | -36.7 | |
| High Ch, 1770MHz | | | | | | | | | |
| 3540.00 | -21.7 | V | 3.0 | 36.0 | 1.0 | -56.7 | -13.0 | -43.7 | |
| 5310.00 | -16.7 | V | 3.0 | 35.4 | 1.0 | -51.2 | -13.0 | -38.2 | |
| 7080.00 | -15.3 | V | 3.0 | 35.7 | 1.0 | -50.0 | -13.0 | -37.0 | |
| 3540.00 | -21.8 | H | 3.0 | 36.0 | 1.0 | -56.8 | -13.0 | -43.8 | |
| 5310.00 | -17.1 | H | 3.0 | 35.4 | 1.0 | -51.5 | -13.0 | -38.5 | |
| 7080.00 | -14.0 | H | 3.0 | 35.7 | 1.0 | -48.7 | -13.0 | -35.7 | |

LTE B66 20MHz QPSK

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: SOMC
 Project #: 11740661 C2PC
 Date: 8/30/2017
 Test Engineer: 39703 HK
 Configuration: EUT + HS + Charger
 Location: Chamber C
 Mode: LTE_16QAM Band 66 Harmonics, 20MHz Bandwidth

| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|-------------------------|------------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Low Ch, 1720MHz | | | | | | | | | |
| 3440.00 | -21.1 | V | 3.0 | 36.0 | 1.0 | -56.2 | -13.0 | -43.2 | |
| 5160.00 | -15.7 | V | 3.0 | 35.4 | 1.0 | -50.1 | -13.0 | -37.1 | |
| 6880.00 | -14.3 | V | 3.0 | 35.7 | 1.0 | -48.9 | -13.0 | -35.9 | |
| 3440.00 | -22.5 | H | 3.0 | 36.0 | 1.0 | -57.5 | -13.0 | -44.5 | |
| 5160.00 | -15.9 | H | 3.0 | 35.4 | 1.0 | -50.3 | -13.0 | -37.3 | |
| 6880.00 | -11.7 | H | 3.0 | 35.7 | 1.0 | -46.4 | -13.0 | -33.4 | |
| Mid Ch, 1745MHz | | | | | | | | | |
| 3490.00 | -19.9 | V | 3.0 | 36.0 | 1.0 | -54.9 | -13.0 | -41.9 | |
| 5235.00 | -16.7 | V | 3.0 | 35.4 | 1.0 | -51.1 | -13.0 | -38.1 | |
| 6980.00 | -15.9 | V | 3.0 | 35.7 | 1.0 | -50.5 | -13.0 | -37.5 | |
| 3490.00 | -19.5 | H | 3.0 | 36.0 | 1.0 | -54.6 | -13.0 | -41.6 | |
| 5235.00 | -16.2 | H | 3.0 | 35.4 | 1.0 | -50.6 | -13.0 | -37.6 | |
| 6980.00 | -13.4 | H | 3.0 | 35.7 | 1.0 | -48.1 | -13.0 | -35.1 | |
| High Ch, 1770MHz | | | | | | | | | |
| 3540.00 | -18.8 | V | 3.0 | 36.0 | 1.0 | -53.8 | -13.0 | -40.8 | |
| 5310.00 | -16.4 | V | 3.0 | 35.4 | 1.0 | -50.8 | -13.0 | -37.8 | |
| 7080.00 | -14.6 | V | 3.0 | 35.7 | 1.0 | -49.3 | -13.0 | -36.3 | |
| 3540.00 | -20.4 | H | 3.0 | 36.0 | 1.0 | -55.4 | -13.0 | -42.4 | |
| 5310.00 | -16.7 | H | 3.0 | 35.4 | 1.0 | -51.1 | -13.0 | -38.1 | |
| 7080.00 | -14.3 | H | 3.0 | 35.7 | 1.0 | -49.0 | -13.0 | -36.0 | |

LTE B66 20MHz 16QAM