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TEST REPORT

EMI Test for FCC Certification of T720C Model

APPLICANT

Franklin Technology Inc.

REPORT NO.

HCT-EM-2112-FC008

DATE OF ISSUE

December 28, 2021

Tested by
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TEST REPORT

EMI Test for
FCC Certification

REPORT NO.
HCT-EM-2112-FC008

DATE OF ISSUE
December 28, 2021

FCC ID.
XHG-T720C

Applicant Franklin Technology Inc.
906 JEI Platz, 186, Gasan digital 1-ro, Geumcheon-gu,
Seoul, 08502 South Korea

Product Name HomePhone Connect
Model Name T720C

Date of Test December 09, 2021 to December 21, 2021

Test Standard Used FCC CFR 47 PART 15 Subpart B Class B
ANSI C63.4-2014

Test Results Refer to the present document

Manufacturer Franklin Technology Inc.

The result shown in this test report refer only to the sample(s) tested unless otherwise stated.

This test results were applied only to the test methods required by the standard.

REVISION HISTORY

The revision history for this test report is shown in table.

| Revision No. | Date of Issue | Description |
|--------------|-------------------|-----------------|
| 0 | December 28, 2021 | Initial Release |

The above Test Report is not related to the accredited test result by (KS Q) ISO/IEC 17025 and KOLAS(Korea Laboratory Accreditation Scheme), which signed the ILAC-MRA.

If this report is required to confirmation of authenticity, please contact to www.hct.co.kr

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1. GENERAL INFORMATION

1.1 Description of EUT

| | |
|------------------------|--|
| FCC ID | XHG-T720C |
| Model Name | T720C |
| Product Name | HomePhone Connect |
| Frequency Range | CDMA BC0: 824 MHz to 849 MHz CDMA BC1: 1 850 MHz to 1 910 MHz LTE B2: 1 850 MHz to 1 910 MHz LTE B4: 1 710 MHz to 1 755 MHz LTE B5: 824 MHz to 849 MHz LTE B13: 777 MHz to 787 MHz LTE B66: 1 710 MHz to 1 780 MHz |
| Power Supply | AC input voltage: Minimum: 90 V, Normal: 100 to 240 V Switching adapter: Maximum: 264 V DC output voltage: +5 V |
| | Battery: Rated capacity: 2 100 mAh Rated voltage: 3.8 V |
| Manufacturer | Franklin Technology Inc. |

1.2 Tested System Details

All equipment descriptions used in the tested system (including inserted cards) are:

| Device Type | Model Name | Serial Number | Manufacturer |
|---------------------------|-------------------|---------------|--------------------------------------|
| HomePhone Connect | T720C | - | Franklin Technology Inc. |
| Switching adapter (TA) | APS-V010050200W-G | - | Shenzhen ACT Industrial Co., Ltd. |
| Telephone | GS-460F | - | LG Electronics |



1.3 Cable Description

| Product Name | Port | Power Cord Shielded (Y/N) | I/O Cable Shielded (Y/N) | Length (m) |
|--------------|-----------|---------------------------|--------------------------|------------|
| EUT | MICRO USB | N | N/A | 1.2 |
| | RJ 11 | N/A | N | 2.2 |
| | RJ 11 | N/A | N | 2.2 |

NOTE. The marked "(D)" means the data cable and "(P)" means the power cable.

1.4 Noise Suppression Parts on Cable (I/O Cable)

| Product Name | Port | Ferrite Bead (Y/N) | Location | Metal Hood (Y/N) | Location |
|--------------|-----------|--------------------|----------|------------------|----------|
| EUT | MICRO USB | N/A | N/A | Y | Both End |
| | RJ 11 | N/A | N/A | N | N |
| | RJ 11 | N/A | N/A | YN | N |

1.5 Test Facility

Test site is located at 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Rep. of Korea. Those measurement facilities are constructed in conformance with the requirements of ANSI C63.4-2014. The Normalized site attenuations (30 MHz to 1 GHz) and Site validation (1 GHz to 18 GHz) were performed in accordance with the standard in ANSI C63.4-2014 and ANSI C63.4a-2017. This testing laboratories are accredited and accordance with the recognized international Standard ISO/IEC 17025:2017.

1.6 Calibration of Measuring Instrument

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturers recommendations for utilizing calibration equipment, which is traceable to recognized national standards. Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5:2017

1.7 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4-2014. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95 % level of confidence. The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

| Test Item | Test Site (Chamber) | Expanded Uncertainty |
|--|------------------------------|----------------------|
| Conducted Emission (150 kHz to 30 MHz) | EMI Shield Room | 2.0 dB |
| Radiated Emissions (30 MHz to 1 GHz) | 3 m Semi Anechoic Chamber #1 | 5.8 dB |
| Radiated Emissions (1 GHz to 18 GHz) | 3 m Semi Anechoic Chamber #2 | 4.7 dB |

2. DESCRIPTION OF TEST

2.1 Measurement of Conducted Emission

The test procedure was in accordance with ANSI C63.4-2014, Clause 7.3

a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN).

If the EUT is connected to the PC through USB, the AC power-line adapter of the PC is directly connected to a line impedance stabilization network (LISN).

Other support units were connected to the power mains through another LISN.

The two LISNs provide $50 \Omega / 50 \mu\text{H}$ of coupling impedance for the measuring instrument.

b. Both conducted lines are measured in Quasi-Peak and Average mode, including the worst-case data points for each tested configuration.

c. The frequency range from 150 kHz to 30 MHz was searched.

Conducted Emission Limits

| Frequency (MHz) | Resolution Bandwidth (kHz) | Class A | | Class B | |
|-----------------|----------------------------|-------------------------|----------------------|-------------------------|----------------------|
| | | Quasi-Peak (dB μ V) | Average (dB μ V) | Quasi-Peak (dB μ V) | Average (dB μ V) |
| 0.15 to 0.5 | 9 | 79 | 66 | 66 to 56* | 56 to 46* |
| 0.5 to 5 | 9 | 73 | 60 | 56 | 46 |
| 5 to 30 | 9 | 73 | 60 | 60 | 50 |

NOTE. Decreases with the logarithm of the frequency.

2.2 Measurement of Radiated Emission

The test procedure was in accordance with ANSI C63.4-2014, Clause 8.3

- a. The EUT was placed on the top of a turn table 0.8 meters above the ground at a semi-anechoic chamber.
The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 m away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from 1 m to 4 m above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 m to 4 m and the turn table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to Peak and Average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- g. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.
(1 GHz to 40 GHz)

Radiated Emission Limits

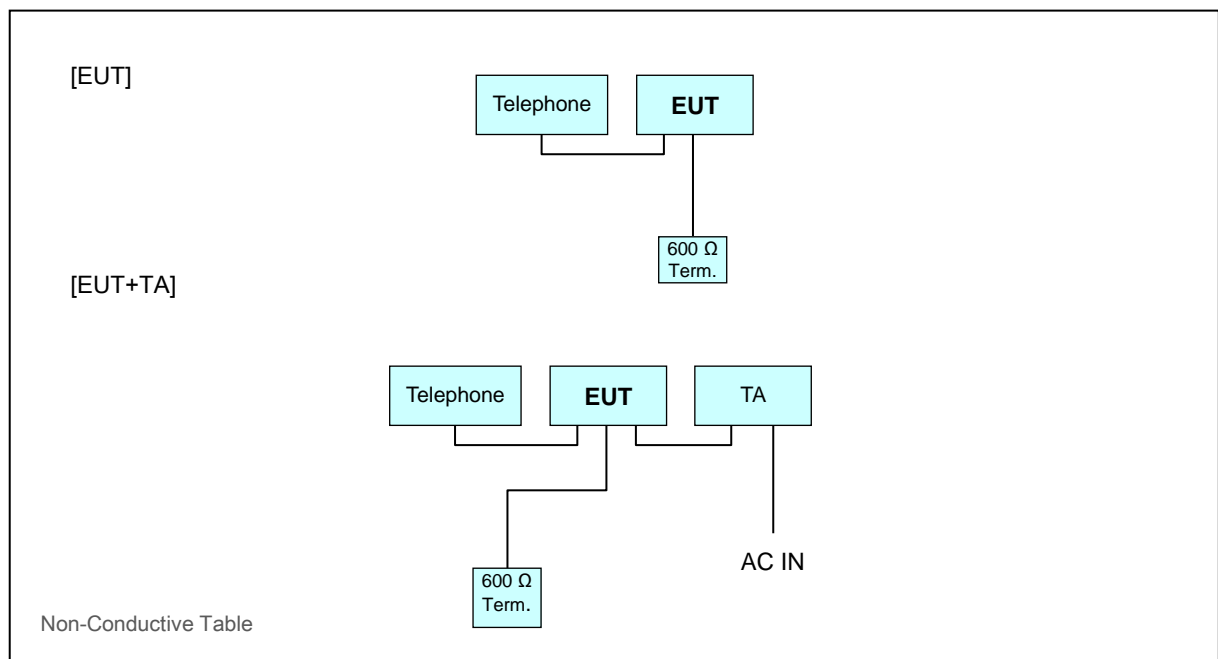
| Frequency (MHz) | Class A | | | Class B | | |
|-----------------|----------------------|-----------------------|---------------------|----------------------|-----------------------|---------------------|
| | Antenna Distance (m) | Field Strength (μV/m) | Quasi-Peak (dBμV/m) | Antenna Distance (m) | Field Strength (μV/m) | Quasi-Peak (dBμV/m) |
| 30 to 88 | 10 | 90 | 39.0 | 3 | 100 | 40.0 |
| 88 to 216 | 10 | 150 | 43.5 | 3 | 150 | 43.5 |
| 216 to 960 | 10 | 210 | 46.4 | 3 | 200 | 46.0 |
| Above 960 | 10 | 300 | 49.5 | 3 | 500 | 54.0 |
| Frequency (MHz) | Antenna Distance (m) | Class A | | Class B | | |
| | | Peak (dBμV/m) | Average (dBμV/m) | Peak (dBμV/m) | Average (dBμV/m) | |
| Above 1 000 | 3 | 80 | 60 | 74 | 54 | |

2.2.1 Frequency Range of Radiated Measurements

An unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a Radiated Emission limit is specified, up to the frequency shown in the following table

| Highest frequency generated or used in the device or on which the device operates or tunes (MHz) | Upper frequency of measurement range (MHz) |
|--|---|
| Below 1.705 | 30 |
| 1.705 to 108 | 1 000 |
| 108 to 500 | 2 000 |
| 500 to 1 000 | 5 000 |
| Above 1 000 | 5th harmonic of the highest frequency or 40 GHz, whichever is lower |

2.3 Configuration of Tested System



NOTE.

1. The EUT is powered by an internal battery or a switching adapter and has only ports to connect the phone and can't be wired to the PC (IT equipment)
2. All modes of operation were verified and the worst case configuration result was indicated in the test report.

3. OPERATION OF THE EUT

During preliminary test and final tests, the following operating mode was investigated.;

3.1 Conducted Emission

It was tested the following operating mode, after connecting all peripheral devices.

Operating Modes:

- [EUT+TA] Charging+CDMA BC0+LTE Band 5 (LOW_ch2400)_RX Receiving mode
- Charging+CDMA BC0+LTE Band 5 Mliddle_ch2525)_RX Receiving mode
- Charging+CDMA BC0+LTE Band 5 (High _ch2646)_RX Receiving mode
- Charging+LTE Band 13 (LOW_ch5180)_RX Receiving mode
- Charging+LTE Band 13 (LOW_ch5230)_RX Receiving mode
- Charging+LTE Band 13 (LOW_ch5279)_RX Receiving mode
- Charging+CDMA BC1+LTE Band 2+LTE Ban 4+LTE Ban 66+ GPS mode

3.2 Radiated Emission

It was tested the following operating mode, after connecting all peripheral devices.

Operating Modes:

- [EUT(only)] CDMA BC0+LTE Band 5 (LOW_ch2400)_RX Receiving mode
- CDMA BC0+LTE Band 5 Mliddle_ch2525)_RX Receiving mode
- CDMA BC0+LTE Band 5 (High _ch2646)_RX Receiving mode
- LTE Band 13 (LOW_ch5180)_RX Receiving mode
- LTE Band 13 (LOW_ch5230)_RX Receiving mode
- LTE Band 13 (LOW_ch5279)_RX Receiving mode
- IDLE+ GPS mode
- [EUT+TA] Charging+CDMA BC0+LTE Band 5 (LOW_ch2400)_RX Receiving mode
- Charging+CDMA BC0+LTE Band 5 Mliddle_ch2525)_RX Receiving mode
- Charging+CDMA BC0+LTE Band 5 (High _ch2646)_RX Receiving mode
- Charging+LTE Band 13 (LOW_ch5180)_RX Receiving mode
- Charging+LTE Band 13 (LOW_ch5230)_RX Receiving mode
- Charging+LTE Band 13 (LOW_ch5279)_RX Receiving mode
- Charging+ IDLE+ GPS mode



4. CONDUCTED EMISSION AND RADIATED EMISSION TEST SUMMARY

4.1 Conducted Emission

4.1.1 Measuring instruments

| | Type | Model Name | Manufacturer | Serial Number | Calibration Cycle | Calibration Date |
|-------------------------------------|-------------------|------------|-----------------|---------------|-------------------|------------------|
| <input checked="" type="checkbox"/> | EMI test receiver | ESR7 | Rohde & Schwarz | 101910 | 1 year | 06.17.2021 |
| <input checked="" type="checkbox"/> | LISN | ENV216 | Rohde & Schwarz | 102245 | 1 year | 08.23.2021 |
| <input checked="" type="checkbox"/> | LISN | ENV216 | Rohde & Schwarz | 100073 | 1 year | 04.07.2021 |
| <input checked="" type="checkbox"/> | Software | EMC32 | Rohde & Schwarz | - | - | - |

4.1.2 Operating Condition

The test results of conducted emission at mains ports provide the following information:

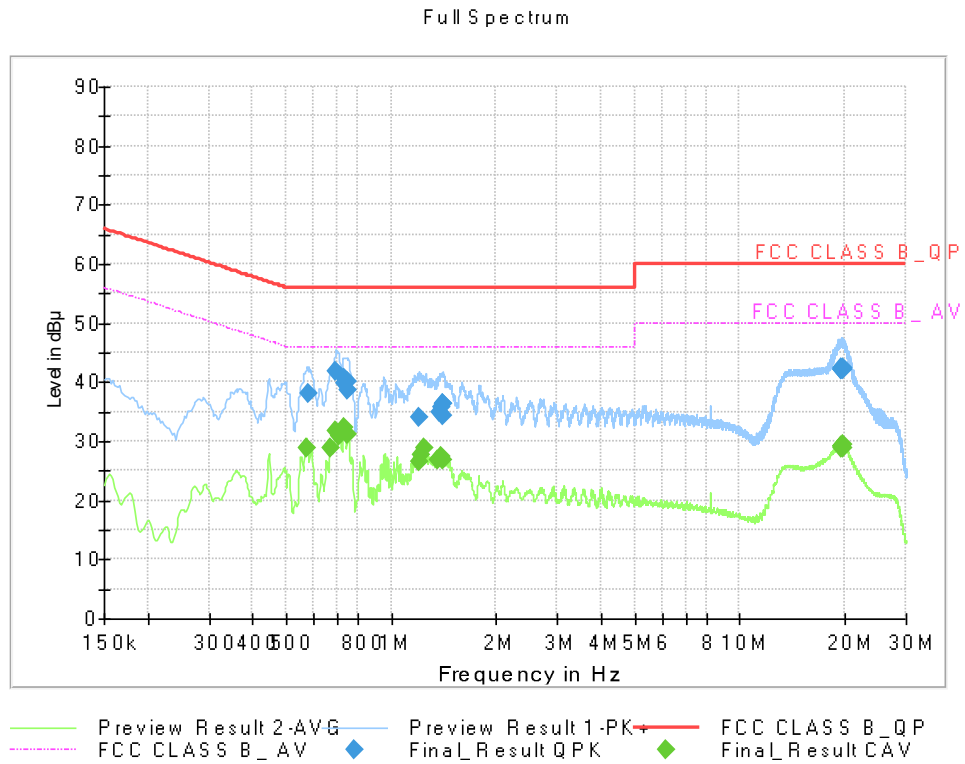
| | |
|---------------------------|---|
| Test Standard Used | FCC CFR 47 PART 15 Subpart B Class B ANSI C63.4-2014 |
| Frequency Range | 150 kHz to 30 MHz |
| Detector | Quasi-Peak, CISPR-Average |
| Bandwidth | 9 kHz (6 dB) |
| Test Site | EMI Shield Room |
| Temperature | min. 19.8 / max. 22.4 °C |
| Relative Humidity | min. 31.8 / max. 35.9 % |
| Test Date | December 19, 2021 |

- Calculation Formula:**
1. Conductor L1 = Hot, Conductor N = Neutral
 2. Corr. = LISN Factor + Cable Loss
 3. QuasiPeak or CAverage= Receiver Reading + Corr.
 4. Margin = Limit – QuasiPeak or CAverage



4.1.3 Measuring Data

Figure 1: Charging+CDMA BC0+LTE Band 5 (LOW_ch2400)_RX Receiving, Line (L1)





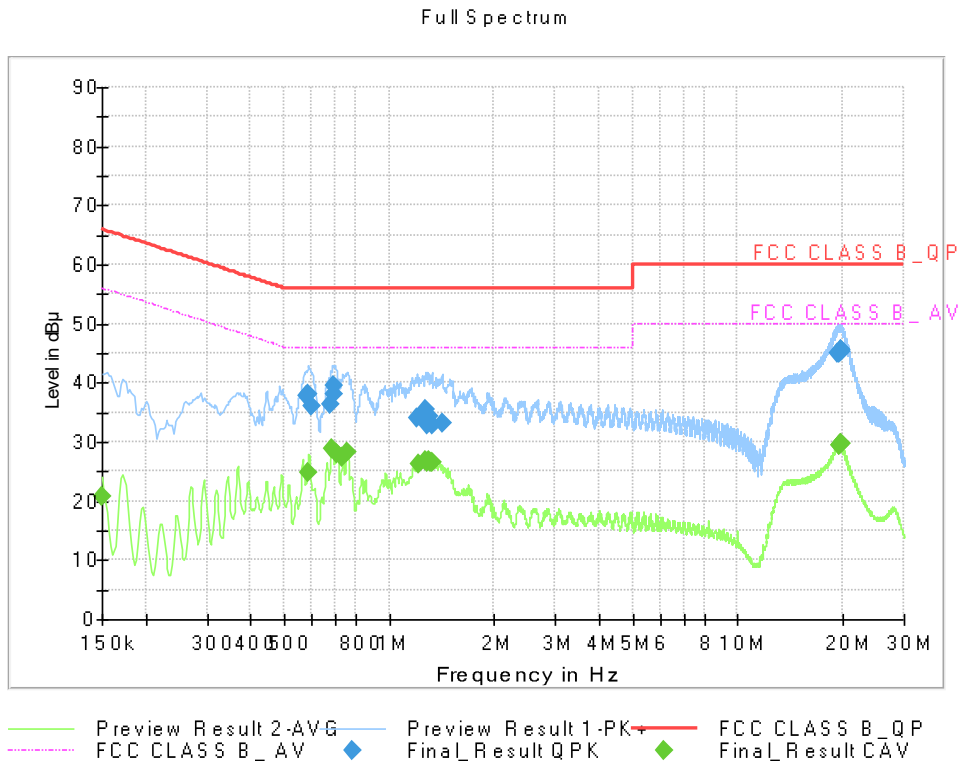
QuasiPeak Final Result

| Frequency (MHz) | QuasiPeak (dBμV) | Limit (dBμV) | Margin (dB) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|------------------|--------------|-------------|-----------------|------|------------|
| 0.5810 | 37.98 | 56.00 | 18.02 | 9.000 | L1 | 9.7 |
| 0.6958 | 41.74 | 56.00 | 14.26 | 9.000 | L1 | 9.7 |
| 0.7318 | 39.90 | 56.00 | 16.10 | 9.000 | L1 | 9.7 |
| 0.7363 | 40.61 | 56.00 | 15.39 | 9.000 | L1 | 9.7 |
| 0.7453 | 40.14 | 56.00 | 15.86 | 9.000 | L1 | 9.7 |
| 0.7520 | 38.60 | 56.00 | 17.40 | 9.000 | L1 | 9.7 |
| 1.1975 | 34.11 | 56.00 | 21.89 | 9.000 | L1 | 9.7 |
| 1.3798 | 34.97 | 56.00 | 21.03 | 9.000 | L1 | 9.7 |
| 1.3888 | 35.81 | 56.00 | 20.19 | 9.000 | L1 | 9.7 |
| 1.4000 | 36.47 | 56.00 | 19.53 | 9.000 | L1 | 9.7 |
| 1.4045 | 36.36 | 56.00 | 19.64 | 9.000 | L1 | 9.7 |
| 1.4135 | 34.23 | 56.00 | 21.77 | 9.000 | L1 | 9.7 |
| 19.4878 | 42.14 | 60.00 | 17.86 | 9.000 | L1 | 10.4 |
| 19.5013 | 42.05 | 60.00 | 17.95 | 9.000 | L1 | 10.4 |
| 19.5103 | 42.30 | 60.00 | 17.70 | 9.000 | L1 | 10.4 |
| 19.5238 | 42.24 | 60.00 | 17.76 | 9.000 | L1 | 10.4 |
| 19.7420 | 42.10 | 60.00 | 17.90 | 9.000 | L1 | 10.4 |
| 19.7645 | 42.52 | 60.00 | 17.48 | 9.000 | L1 | 10.4 |

CAverage Final Result

| Frequency (MHz) | CAverage (dBμV) | Limit (dBμV) | Margin (dB) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|-----------------|--------------|-------------|-----------------|------|------------|
| 0.5698 | 28.84 | 46.00 | 17.16 | 9.000 | L1 | 9.7 |
| 0.6710 | 28.93 | 46.00 | 17.07 | 9.000 | L1 | 9.7 |
| 0.6913 | 31.68 | 46.00 | 14.32 | 9.000 | L1 | 9.7 |
| 0.7093 | 30.76 | 46.00 | 15.24 | 9.000 | L1 | 9.7 |
| 0.7318 | 32.31 | 46.00 | 13.69 | 9.000 | L1 | 9.7 |
| 0.7498 | 31.10 | 46.00 | 14.90 | 9.000 | L1 | 9.7 |
| 1.1998 | 26.64 | 46.00 | 19.36 | 9.000 | L1 | 9.7 |
| 1.2200 | 27.79 | 46.00 | 18.21 | 9.000 | L1 | 9.7 |
| 1.2403 | 28.82 | 46.00 | 17.18 | 9.000 | L1 | 9.7 |
| 1.3618 | 26.87 | 46.00 | 19.13 | 9.000 | L1 | 9.7 |
| 1.3843 | 27.27 | 46.00 | 18.73 | 9.000 | L1 | 9.7 |
| 1.4023 | 26.82 | 46.00 | 19.18 | 9.000 | L1 | 9.7 |
| 19.4833 | 28.92 | 50.00 | 21.08 | 9.000 | L1 | 10.4 |
| 19.5013 | 29.04 | 50.00 | 20.96 | 9.000 | L1 | 10.4 |
| 19.5215 | 29.19 | 50.00 | 20.81 | 9.000 | L1 | 10.4 |
| 19.5440 | 29.13 | 50.00 | 20.87 | 9.000 | L1 | 10.4 |
| 19.7060 | 28.74 | 50.00 | 21.26 | 9.000 | L1 | 10.4 |
| 19.7465 | 29.41 | 50.00 | 20.59 | 9.000 | L1 | 10.4 |

Figure 2: Charging+CDMA BC0+LTE Band 5 (LOW_ch2400)_RX Receiving, Line (N)





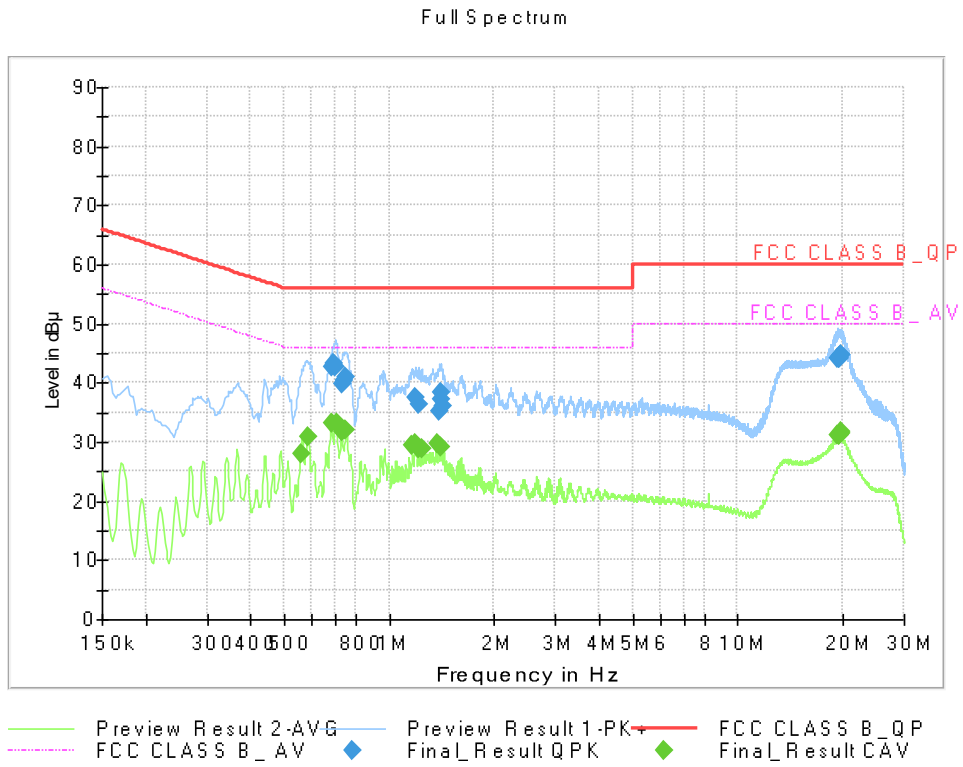
QuasiPeak Final Result

| Frequency (MHz) | QuasiPeak (dBμV) | Limit (dBμV) | Margin (dB) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|------------------|--------------|-------------|-----------------|------|------------|
| 0.5765 | 37.71 | 56.00 | 18.29 | 9.000 | N | 9.6 |
| 0.5855 | 38.20 | 56.00 | 17.80 | 9.000 | N | 9.6 |
| 0.5990 | 35.92 | 56.00 | 20.08 | 9.000 | N | 9.6 |
| 0.6800 | 36.33 | 56.00 | 19.67 | 9.000 | N | 9.6 |
| 0.6890 | 39.52 | 56.00 | 16.48 | 9.000 | N | 9.6 |
| 0.6958 | 37.97 | 56.00 | 18.03 | 9.000 | N | 9.6 |
| 1.2043 | 34.00 | 56.00 | 22.00 | 9.000 | N | 9.7 |
| 1.2718 | 35.35 | 56.00 | 20.65 | 9.000 | N | 9.7 |
| 1.2875 | 32.95 | 56.00 | 23.05 | 9.000 | N | 9.7 |
| 1.3010 | 34.41 | 56.00 | 21.59 | 9.000 | N | 9.7 |
| 1.3235 | 32.79 | 56.00 | 23.21 | 9.000 | N | 9.7 |
| 1.4203 | 33.13 | 56.00 | 22.87 | 9.000 | N | 9.7 |
| 19.4428 | 45.06 | 60.00 | 14.94 | 9.000 | N | 10.4 |
| 19.4900 | 45.05 | 60.00 | 14.95 | 9.000 | N | 10.4 |
| 19.6768 | 45.35 | 60.00 | 14.65 | 9.000 | N | 10.4 |
| 19.6970 | 45.42 | 60.00 | 14.58 | 9.000 | N | 10.4 |
| 19.7015 | 45.44 | 60.00 | 14.56 | 9.000 | N | 10.4 |
| 19.7060 | 45.70 | 60.00 | 14.30 | 9.000 | N | 10.4 |

CAverage Final Result

| Frequency (MHz) | CAverage (dBμV) | Limit (dBμV) | Margin (dB) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|-----------------|--------------|-------------|-----------------|------|------------|
| 0.1500 | 20.86 | 56.00 | 35.14 | 9.000 | N | 9.6 |
| 0.5878 | 24.67 | 46.00 | 21.33 | 9.000 | N | 9.6 |
| 0.6868 | 28.93 | 46.00 | 17.07 | 9.000 | N | 9.6 |
| 0.7093 | 28.02 | 46.00 | 17.98 | 9.000 | N | 9.7 |
| 0.7340 | 27.48 | 46.00 | 18.52 | 9.000 | N | 9.7 |
| 0.7588 | 28.36 | 46.00 | 17.64 | 9.000 | N | 9.7 |
| 1.2178 | 26.14 | 46.00 | 19.86 | 9.000 | N | 9.7 |
| 1.2673 | 26.89 | 46.00 | 19.11 | 9.000 | N | 9.7 |
| 1.2920 | 26.52 | 46.00 | 19.48 | 9.000 | N | 9.7 |
| 1.3010 | 26.85 | 46.00 | 19.15 | 9.000 | N | 9.7 |
| 1.3145 | 26.45 | 46.00 | 19.55 | 9.000 | N | 9.7 |
| 1.3258 | 26.60 | 46.00 | 19.40 | 9.000 | N | 9.7 |
| 19.4563 | 29.37 | 50.00 | 20.63 | 9.000 | N | 10.4 |
| 19.4878 | 29.45 | 50.00 | 20.55 | 9.000 | N | 10.4 |
| 19.6768 | 29.78 | 50.00 | 20.22 | 9.000 | N | 10.4 |
| 19.6835 | 29.62 | 50.00 | 20.38 | 9.000 | N | 10.4 |
| 19.7083 | 29.76 | 50.00 | 20.24 | 9.000 | N | 10.4 |
| 19.7330 | 29.66 | 50.00 | 20.34 | 9.000 | N | 10.5 |

Figure 3: Charging+CDMA BC0+LTE Band 5 Mlddle_ch2525)_RX Receiving, Line (L1)





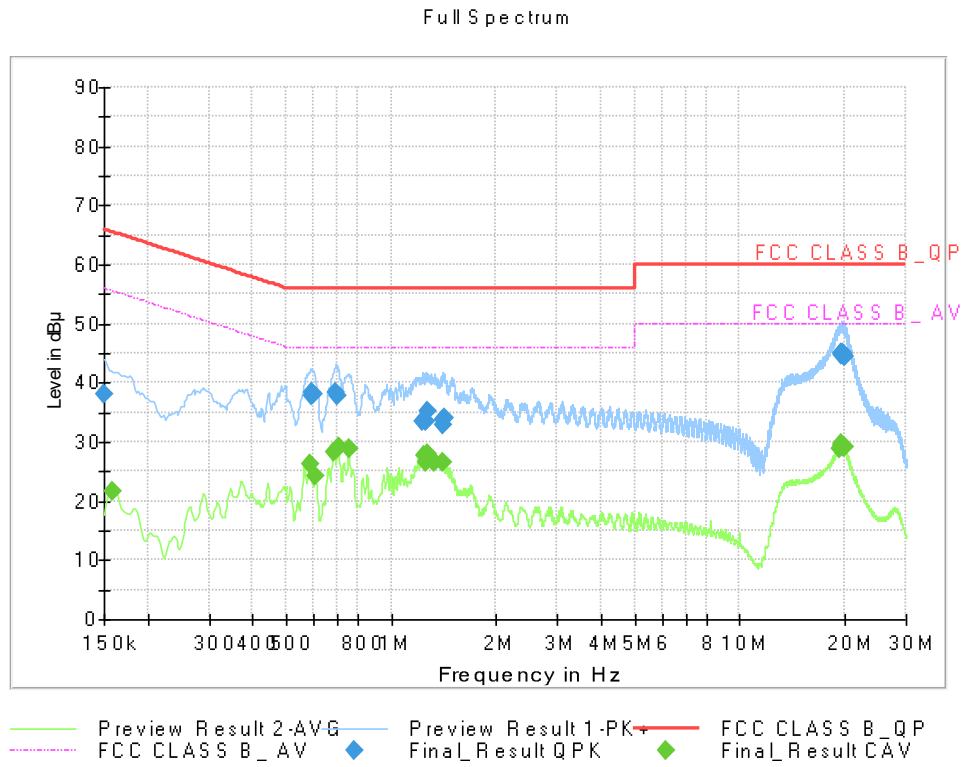
QuasiPeak Final Result

| Frequency (MHz) | QuasiPeak (dBμV) | Limit (dBμV) | Margin (dB) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|------------------|--------------|-------------|-----------------|------|------------|
| 0.6868 | 42.57 | 56.00 | 13.43 | 9.000 | L1 | 9.7 |
| 0.6913 | 43.39 | 56.00 | 12.61 | 9.000 | L1 | 9.7 |
| 0.7003 | 42.64 | 56.00 | 13.36 | 9.000 | L1 | 9.7 |
| 0.7363 | 39.71 | 56.00 | 16.29 | 9.000 | L1 | 9.7 |
| 0.7408 | 40.43 | 56.00 | 15.57 | 9.000 | L1 | 9.7 |
| 0.7498 | 40.95 | 56.00 | 15.05 | 9.000 | L1 | 9.7 |
| 1.1885 | 37.59 | 56.00 | 18.41 | 9.000 | L1 | 9.7 |
| 1.2088 | 36.36 | 56.00 | 19.64 | 9.000 | L1 | 9.7 |
| 1.3978 | 35.11 | 56.00 | 20.89 | 9.000 | L1 | 9.7 |
| 1.4023 | 37.17 | 56.00 | 18.83 | 9.000 | L1 | 9.7 |
| 1.4090 | 38.39 | 56.00 | 17.61 | 9.000 | L1 | 9.7 |
| 1.4158 | 36.11 | 56.00 | 19.89 | 9.000 | L1 | 9.7 |
| 19.4540 | 44.06 | 60.00 | 15.94 | 9.000 | L1 | 10.4 |
| 19.4585 | 44.11 | 60.00 | 15.89 | 9.000 | L1 | 10.4 |
| 19.4810 | 44.07 | 60.00 | 15.93 | 9.000 | L1 | 10.4 |
| 19.4855 | 44.47 | 60.00 | 15.53 | 9.000 | L1 | 10.4 |
| 19.6903 | 44.66 | 60.00 | 15.34 | 9.000 | L1 | 10.4 |
| 19.7015 | 44.74 | 60.00 | 15.26 | 9.000 | L1 | 10.4 |

CAverage Final Result

| Frequency (MHz) | CAverage (dBμV) | Limit (dBμV) | Margin (dB) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|-----------------|--------------|-------------|-----------------|------|------------|
| 0.5608 | 27.84 | 46.00 | 18.16 | 9.000 | L1 | 9.7 |
| 0.5855 | 30.86 | 46.00 | 15.14 | 9.000 | L1 | 9.7 |
| 0.6823 | 33.17 | 46.00 | 12.83 | 9.000 | L1 | 9.7 |
| 0.7048 | 33.28 | 46.00 | 12.72 | 9.000 | L1 | 9.7 |
| 0.7295 | 31.80 | 46.00 | 14.20 | 9.000 | L1 | 9.7 |
| 0.7520 | 31.97 | 46.00 | 14.03 | 9.000 | L1 | 9.7 |
| 1.1638 | 29.48 | 46.00 | 16.52 | 9.000 | L1 | 9.7 |
| 1.1885 | 29.68 | 46.00 | 16.32 | 9.000 | L1 | 9.7 |
| 1.2133 | 28.79 | 46.00 | 17.21 | 9.000 | L1 | 9.7 |
| 1.2380 | 28.86 | 46.00 | 17.14 | 9.000 | L1 | 9.7 |
| 1.3820 | 29.64 | 46.00 | 16.36 | 9.000 | L1 | 9.7 |
| 1.4068 | 29.27 | 46.00 | 16.73 | 9.000 | L1 | 9.7 |
| 19.4270 | 31.23 | 50.00 | 18.77 | 9.000 | L1 | 10.4 |
| 19.4585 | 31.09 | 50.00 | 18.91 | 9.000 | L1 | 10.4 |
| 19.4855 | 31.25 | 50.00 | 18.75 | 9.000 | L1 | 10.4 |
| 19.6430 | 31.11 | 50.00 | 18.89 | 9.000 | L1 | 10.4 |
| 19.6925 | 31.54 | 50.00 | 18.46 | 9.000 | L1 | 10.4 |
| 19.7038 | 31.73 | 50.00 | 18.27 | 9.000 | L1 | 10.4 |

Figure 4: Charging+CDMA BC0+LTE Band 5 Mlddle_ch2525)_RX Receiving, Line (N)





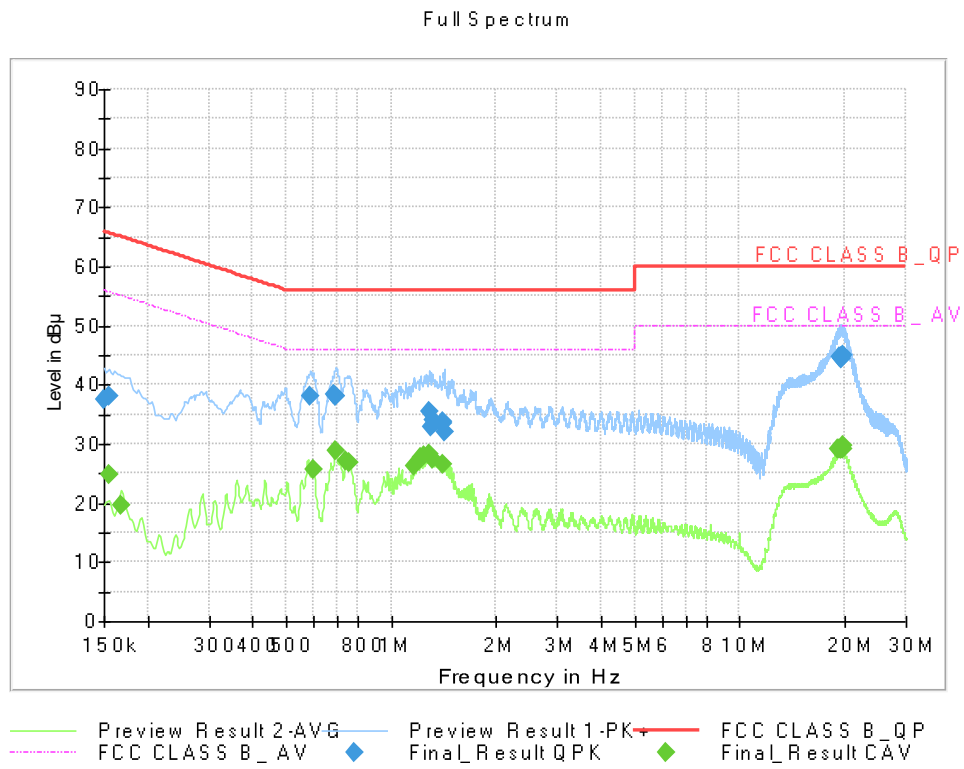
QuasiPeak Final Result

| Frequency (MHz) | QuasiPeak (dBμV) | Limit (dBμV) | Margin (dB) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|------------------|--------------|-------------|-----------------|------|------------|
| 0.1500 | 38.01 | 66.00 | 27.99 | 9.000 | N | 9.6 |
| 0.5900 | 37.77 | 56.00 | 18.23 | 9.000 | N | 9.6 |
| 0.5945 | 38.24 | 56.00 | 17.76 | 9.000 | N | 9.6 |
| 0.5990 | 37.97 | 56.00 | 18.03 | 9.000 | N | 9.6 |
| 0.6958 | 38.41 | 56.00 | 17.59 | 9.000 | N | 9.6 |
| 0.7025 | 37.83 | 56.00 | 18.17 | 9.000 | N | 9.7 |
| 1.2358 | 33.33 | 56.00 | 22.67 | 9.000 | N | 9.7 |
| 1.2583 | 33.50 | 56.00 | 22.50 | 9.000 | N | 9.7 |
| 1.2673 | 35.33 | 56.00 | 20.67 | 9.000 | N | 9.7 |
| 1.4068 | 33.00 | 56.00 | 23.00 | 9.000 | N | 9.7 |
| 1.4113 | 33.65 | 56.00 | 22.35 | 9.000 | N | 9.7 |
| 1.4158 | 33.95 | 56.00 | 22.05 | 9.000 | N | 9.7 |
| 19.4585 | 45.08 | 60.00 | 14.92 | 9.000 | N | 10.4 |
| 19.4945 | 44.92 | 60.00 | 15.08 | 9.000 | N | 10.4 |
| 19.5238 | 44.84 | 60.00 | 15.16 | 9.000 | N | 10.4 |
| 19.7263 | 44.92 | 60.00 | 15.08 | 9.000 | N | 10.5 |
| 19.7533 | 44.72 | 60.00 | 15.28 | 9.000 | N | 10.5 |
| 19.9558 | 44.48 | 60.00 | 15.52 | 9.000 | N | 10.5 |

CAverage Final Result

| Frequency (MHz) | CAverage (dBμV) | Limit (dBμV) | Margin (dB) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|-----------------|--------------|-------------|-----------------|------|------------|
| 0.1590 | 21.68 | 55.52 | 33.84 | 9.000 | N | 9.6 |
| 0.5855 | 26.21 | 46.00 | 19.79 | 9.000 | N | 9.6 |
| 0.6058 | 24.22 | 46.00 | 21.78 | 9.000 | N | 9.6 |
| 0.6845 | 28.29 | 46.00 | 17.71 | 9.000 | N | 9.6 |
| 0.7048 | 29.21 | 46.00 | 16.79 | 9.000 | N | 9.7 |
| 0.7543 | 28.85 | 46.00 | 17.15 | 9.000 | N | 9.7 |
| 1.2425 | 27.83 | 46.00 | 18.17 | 9.000 | N | 9.7 |
| 1.2560 | 26.68 | 46.00 | 19.32 | 9.000 | N | 9.7 |
| 1.2673 | 28.03 | 46.00 | 17.97 | 9.000 | N | 9.7 |
| 1.3145 | 26.97 | 46.00 | 19.03 | 9.000 | N | 9.7 |
| 1.3258 | 26.48 | 46.00 | 19.52 | 9.000 | N | 9.7 |
| 1.4113 | 26.45 | 46.00 | 19.55 | 9.000 | N | 9.7 |
| 19.3460 | 28.80 | 50.00 | 21.20 | 9.000 | N | 10.4 |
| 19.4698 | 29.47 | 50.00 | 20.53 | 9.000 | N | 10.4 |
| 19.4765 | 29.62 | 50.00 | 20.38 | 9.000 | N | 10.4 |
| 19.4945 | 29.41 | 50.00 | 20.59 | 9.000 | N | 10.4 |
| 19.6835 | 29.27 | 50.00 | 20.73 | 9.000 | N | 10.4 |
| 19.9558 | 29.13 | 50.00 | 20.87 | 9.000 | N | 10.5 |

Figure 5: Charging+CDMA BC0+LTE Band 5 (High_ch2646)_RX Receiving, Line (L1)





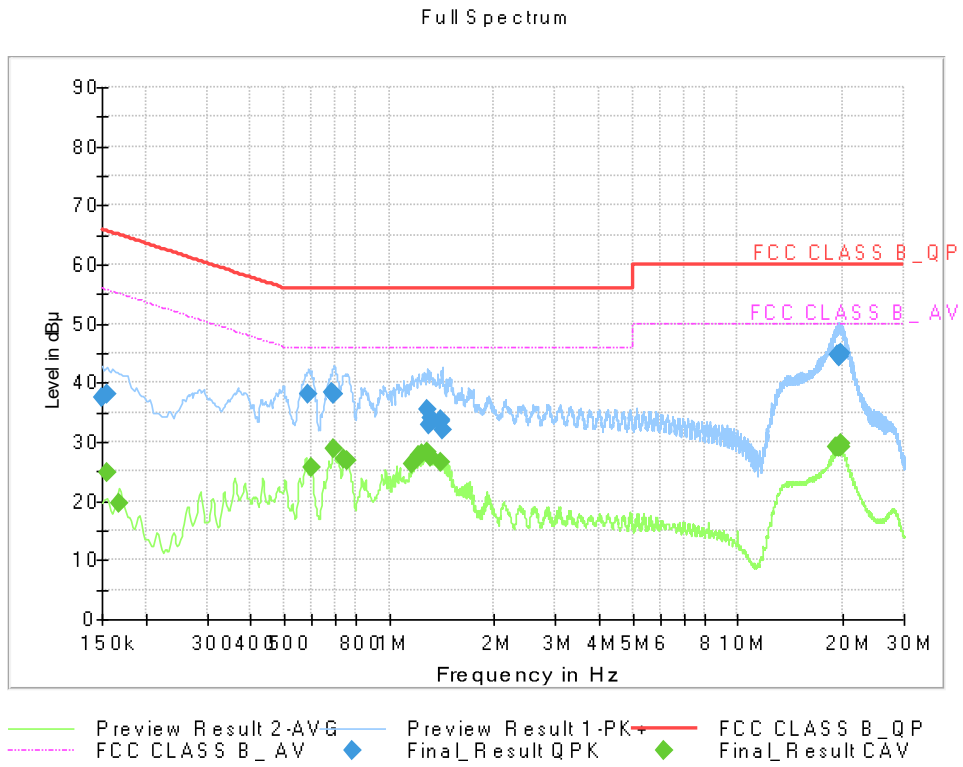
QuasiPeak Final Result

| Frequency (MHz) | QuasiPeak (dBμV) | Limit (dBμV) | Margin (dB) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|------------------|--------------|-------------|-----------------|------|------------|
| 0.1500 | 37.64 | 66.00 | 28.36 | 9.000 | N | 9.6 |
| 0.1545 | 38.16 | 65.75 | 27.60 | 9.000 | N | 9.6 |
| 0.5878 | 37.94 | 56.00 | 18.06 | 9.000 | N | 9.6 |
| 0.6868 | 38.33 | 56.00 | 17.67 | 9.000 | N | 9.6 |
| 0.6913 | 38.12 | 56.00 | 17.88 | 9.000 | N | 9.6 |
| 0.6958 | 38.17 | 56.00 | 17.83 | 9.000 | N | 9.6 |
| 1.2898 | 35.50 | 56.00 | 20.50 | 9.000 | N | 9.7 |
| 1.2965 | 33.02 | 56.00 | 22.98 | 9.000 | N | 9.7 |
| 1.3145 | 33.95 | 56.00 | 22.05 | 9.000 | N | 9.7 |
| 1.4068 | 33.89 | 56.00 | 22.11 | 9.000 | N | 9.7 |
| 1.4113 | 33.59 | 56.00 | 22.41 | 9.000 | N | 9.7 |
| 1.4180 | 31.97 | 56.00 | 24.03 | 9.000 | N | 9.7 |
| 19.4383 | 44.62 | 60.00 | 15.38 | 9.000 | N | 10.4 |
| 19.4630 | 44.63 | 60.00 | 15.37 | 9.000 | N | 10.4 |
| 19.4675 | 44.84 | 60.00 | 15.16 | 9.000 | N | 10.4 |
| 19.6385 | 44.56 | 60.00 | 15.44 | 9.000 | N | 10.4 |
| 19.6655 | 44.55 | 60.00 | 15.45 | 9.000 | N | 10.4 |
| 19.6948 | 45.01 | 60.00 | 14.99 | 9.000 | N | 10.4 |

CAverage Final Result

| Frequency (MHz) | CAverage (dBμV) | Limit (dBμV) | Margin (dB) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|-----------------|--------------|-------------|-----------------|------|------------|
| 0.1545 | 24.70 | 55.75 | 31.06 | 9.000 | N | 9.6 |
| 0.1680 | 19.48 | 55.06 | 35.58 | 9.000 | N | 9.6 |
| 0.5990 | 25.68 | 46.00 | 20.32 | 9.000 | N | 9.6 |
| 0.6935 | 28.81 | 46.00 | 17.19 | 9.000 | N | 9.6 |
| 0.7430 | 27.09 | 46.00 | 18.91 | 9.000 | N | 9.7 |
| 0.7588 | 26.88 | 46.00 | 19.12 | 9.000 | N | 9.7 |
| 1.1660 | 26.20 | 46.00 | 19.80 | 9.000 | N | 9.7 |
| 1.2155 | 27.61 | 46.00 | 18.39 | 9.000 | N | 9.7 |
| 1.2403 | 27.93 | 46.00 | 18.07 | 9.000 | N | 9.7 |
| 1.2875 | 28.22 | 46.00 | 17.78 | 9.000 | N | 9.7 |
| 1.3123 | 27.35 | 46.00 | 18.65 | 9.000 | N | 9.7 |
| 1.4068 | 26.68 | 46.00 | 19.32 | 9.000 | N | 9.7 |
| 19.2313 | 29.06 | 50.00 | 20.94 | 9.000 | N | 10.4 |
| 19.4383 | 29.23 | 50.00 | 20.77 | 9.000 | N | 10.4 |
| 19.4720 | 29.14 | 50.00 | 20.86 | 9.000 | N | 10.4 |
| 19.6363 | 29.22 | 50.00 | 20.78 | 9.000 | N | 10.4 |
| 19.6970 | 29.19 | 50.00 | 20.81 | 9.000 | N | 10.4 |
| 19.7105 | 29.59 | 50.00 | 20.41 | 9.000 | N | 10.4 |

Figure 6: Charging+CDMA BC0+LTE Band 5 (High_ch2646)_RX Receiving, Line (N)





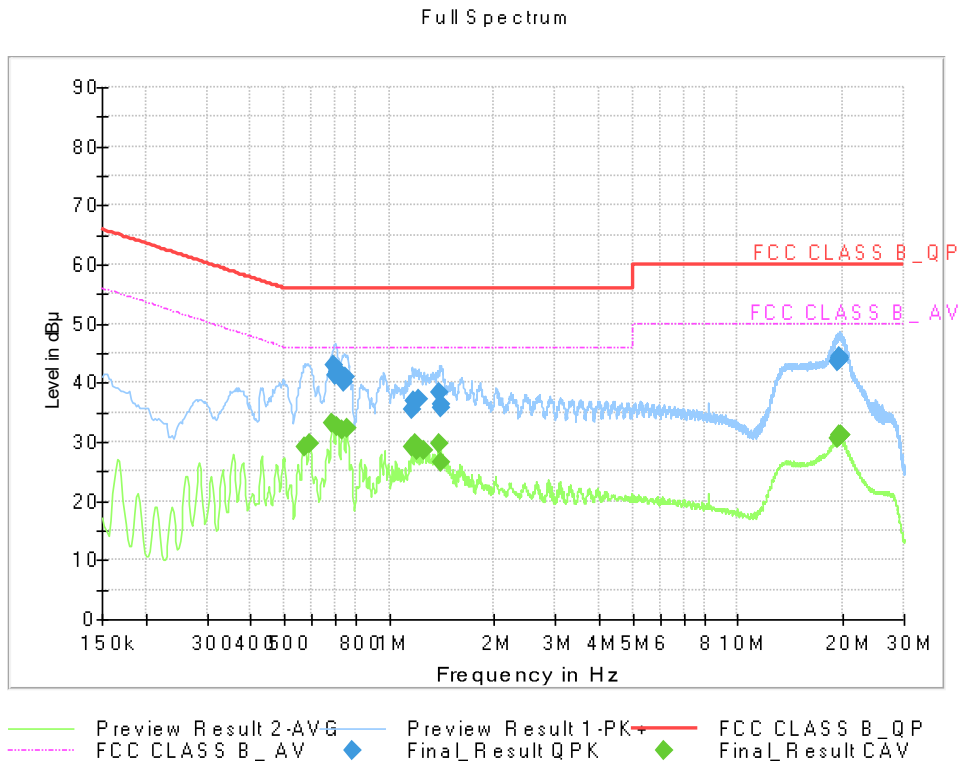
QuasiPeak Final Result

| Frequency (MHz) | QuasiPeak (dBμV) | Limit (dBμV) | Margin (dB) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|------------------|--------------|-------------|-----------------|------|------------|
| 0.1500 | 37.64 | 66.00 | 28.36 | 9.000 | N | 9.6 |
| 0.1545 | 38.16 | 65.75 | 27.60 | 9.000 | N | 9.6 |
| 0.5878 | 37.94 | 56.00 | 18.06 | 9.000 | N | 9.6 |
| 0.6868 | 38.33 | 56.00 | 17.67 | 9.000 | N | 9.6 |
| 0.6913 | 38.12 | 56.00 | 17.88 | 9.000 | N | 9.6 |
| 0.6958 | 38.17 | 56.00 | 17.83 | 9.000 | N | 9.6 |
| 1.2898 | 35.50 | 56.00 | 20.50 | 9.000 | N | 9.7 |
| 1.2965 | 33.02 | 56.00 | 22.98 | 9.000 | N | 9.7 |
| 1.3145 | 33.95 | 56.00 | 22.05 | 9.000 | N | 9.7 |
| 1.4068 | 33.89 | 56.00 | 22.11 | 9.000 | N | 9.7 |
| 1.4113 | 33.59 | 56.00 | 22.41 | 9.000 | N | 9.7 |
| 1.4180 | 31.97 | 56.00 | 24.03 | 9.000 | N | 9.7 |
| 19.4383 | 44.62 | 60.00 | 15.38 | 9.000 | N | 10.4 |
| 19.4630 | 44.63 | 60.00 | 15.37 | 9.000 | N | 10.4 |
| 19.4675 | 44.84 | 60.00 | 15.16 | 9.000 | N | 10.4 |
| 19.6385 | 44.56 | 60.00 | 15.44 | 9.000 | N | 10.4 |
| 19.6655 | 44.55 | 60.00 | 15.45 | 9.000 | N | 10.4 |
| 19.6948 | 45.01 | 60.00 | 14.99 | 9.000 | N | 10.4 |

CAverage Final Result

| Frequency (MHz) | CAverage (dBμV) | Limit (dBμV) | Margin (dB) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|-----------------|--------------|-------------|-----------------|------|------------|
| 0.1545 | 24.70 | 55.75 | 31.06 | 9.000 | N | 9.6 |
| 0.1680 | 19.48 | 55.06 | 35.58 | 9.000 | N | 9.6 |
| 0.5990 | 25.68 | 46.00 | 20.32 | 9.000 | N | 9.6 |
| 0.6935 | 28.81 | 46.00 | 17.19 | 9.000 | N | 9.6 |
| 0.7430 | 27.09 | 46.00 | 18.91 | 9.000 | N | 9.7 |
| 0.7588 | 26.88 | 46.00 | 19.12 | 9.000 | N | 9.7 |
| 1.1660 | 26.20 | 46.00 | 19.80 | 9.000 | N | 9.7 |
| 1.2155 | 27.61 | 46.00 | 18.39 | 9.000 | N | 9.7 |
| 1.2403 | 27.93 | 46.00 | 18.07 | 9.000 | N | 9.7 |
| 1.2875 | 28.22 | 46.00 | 17.78 | 9.000 | N | 9.7 |
| 1.3123 | 27.35 | 46.00 | 18.65 | 9.000 | N | 9.7 |
| 1.4068 | 26.68 | 46.00 | 19.32 | 9.000 | N | 9.7 |
| 19.2313 | 29.06 | 50.00 | 20.94 | 9.000 | N | 10.4 |
| 19.4383 | 29.23 | 50.00 | 20.77 | 9.000 | N | 10.4 |
| 19.4720 | 29.14 | 50.00 | 20.86 | 9.000 | N | 10.4 |
| 19.6363 | 29.22 | 50.00 | 20.78 | 9.000 | N | 10.4 |
| 19.6970 | 29.19 | 50.00 | 20.81 | 9.000 | N | 10.4 |
| 19.7105 | 29.59 | 50.00 | 20.41 | 9.000 | N | 10.4 |

Figure 7: Charging+LTE Band 13 (LOW_ch5180)_RX Receiving, Line (L1)





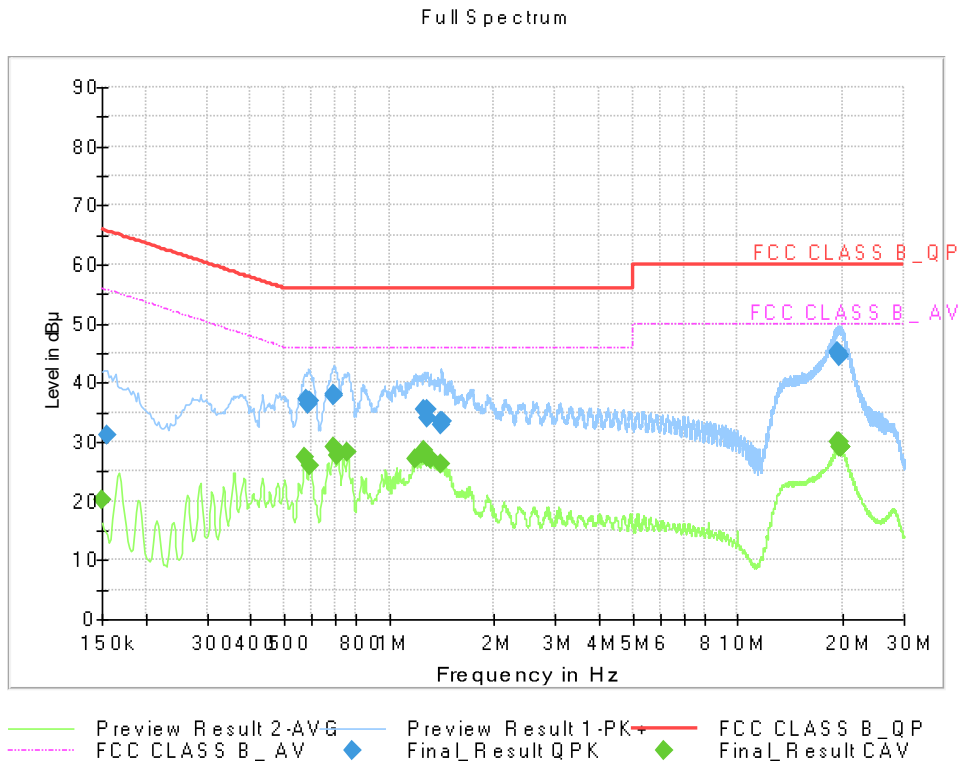
QuasiPeak Final Result

| Frequency (MHz) | QuasiPeak (dBμV) | Limit (dBμV) | Margin (dB) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|------------------|--------------|-------------|-----------------|------|------------|
| 0.6913 | 43.07 | 56.00 | 12.93 | 9.000 | L1 | 9.7 |
| 0.7025 | 41.34 | 56.00 | 14.66 | 9.000 | L1 | 9.7 |
| 0.7070 | 41.90 | 56.00 | 14.10 | 9.000 | L1 | 9.7 |
| 0.7340 | 41.39 | 56.00 | 14.61 | 9.000 | L1 | 9.7 |
| 0.7408 | 40.15 | 56.00 | 15.85 | 9.000 | L1 | 9.7 |
| 0.7520 | 40.97 | 56.00 | 15.03 | 9.000 | L1 | 9.7 |
| 1.1660 | 35.51 | 56.00 | 20.49 | 9.000 | L1 | 9.7 |
| 1.1818 | 36.98 | 56.00 | 19.02 | 9.000 | L1 | 9.7 |
| 1.2088 | 37.30 | 56.00 | 18.70 | 9.000 | L1 | 9.7 |
| 1.3978 | 38.36 | 56.00 | 17.64 | 9.000 | L1 | 9.7 |
| 1.4045 | 35.64 | 56.00 | 20.36 | 9.000 | L1 | 9.7 |
| 1.4090 | 36.48 | 56.00 | 19.52 | 9.000 | L1 | 9.7 |
| 19.4360 | 43.63 | 60.00 | 16.37 | 9.000 | L1 | 10.4 |
| 19.4675 | 43.73 | 60.00 | 16.27 | 9.000 | L1 | 10.4 |
| 19.4743 | 44.08 | 60.00 | 15.92 | 9.000 | L1 | 10.4 |
| 19.4923 | 44.10 | 60.00 | 15.90 | 9.000 | L1 | 10.4 |
| 19.5058 | 44.15 | 60.00 | 15.85 | 9.000 | L1 | 10.4 |
| 19.6588 | 44.34 | 60.00 | 15.66 | 9.000 | L1 | 10.4 |

CAverage Final Result

| Frequency (MHz) | CAverage (dBμV) | Limit (dBμV) | Margin (dB) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|-----------------|--------------|-------------|-----------------|------|------------|
| 0.5698 | 29.02 | 46.00 | 16.98 | 9.000 | L1 | 9.7 |
| 0.5900 | 29.79 | 46.00 | 16.21 | 9.000 | L1 | 9.7 |
| 0.6868 | 33.31 | 46.00 | 12.69 | 9.000 | L1 | 9.7 |
| 0.7070 | 32.73 | 46.00 | 13.27 | 9.000 | L1 | 9.7 |
| 0.7318 | 32.03 | 46.00 | 13.97 | 9.000 | L1 | 9.7 |
| 0.7565 | 32.21 | 46.00 | 13.79 | 9.000 | L1 | 9.7 |
| 1.1593 | 29.16 | 46.00 | 16.84 | 9.000 | L1 | 9.7 |
| 1.1840 | 29.61 | 46.00 | 16.39 | 9.000 | L1 | 9.7 |
| 1.2065 | 28.62 | 46.00 | 17.38 | 9.000 | L1 | 9.7 |
| 1.2560 | 28.61 | 46.00 | 17.39 | 9.000 | L1 | 9.7 |
| 1.3978 | 29.61 | 46.00 | 16.39 | 9.000 | L1 | 9.7 |
| 1.4113 | 26.47 | 46.00 | 19.53 | 9.000 | L1 | 9.7 |
| 19.2425 | 30.52 | 50.00 | 19.48 | 9.000 | L1 | 10.4 |
| 19.4788 | 30.78 | 50.00 | 19.22 | 9.000 | L1 | 10.4 |
| 19.4990 | 31.07 | 50.00 | 18.93 | 9.000 | L1 | 10.4 |
| 19.6655 | 31.20 | 50.00 | 18.80 | 9.000 | L1 | 10.4 |
| 19.7128 | 31.29 | 50.00 | 18.71 | 9.000 | L1 | 10.4 |
| 19.7353 | 31.17 | 50.00 | 18.83 | 9.000 | L1 | 10.4 |

Figure 8: Charging+LTE Band 13 (LOW_ch5180)_RX Receiving, Line (N)





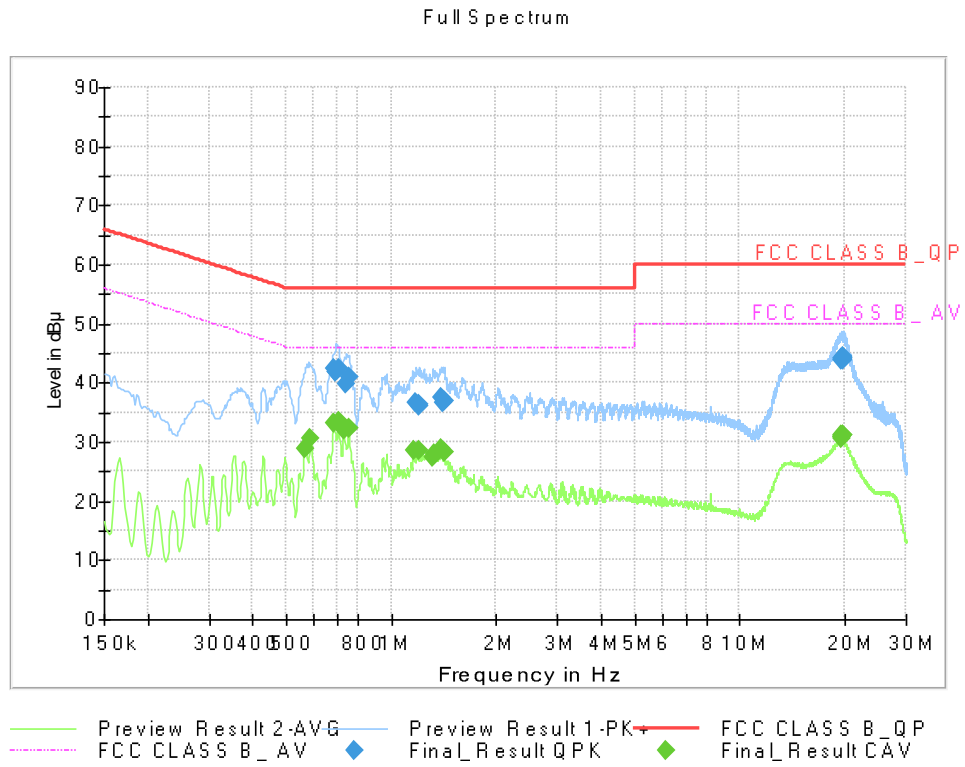
QuasiPeak Final Result

| Frequency (kHz) | QuasiPeak (dBμV) | Limit (dBμV) | Margin (dB) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|------------------|--------------|-------------|-----------------|------|------------|
| 0.1545 | 31.27 | 65.75 | 34.49 | 9.000 | N | 9.6 |
| 0.5788 | 37.16 | 56.00 | 18.84 | 9.000 | N | 9.6 |
| 0.5878 | 36.42 | 56.00 | 19.58 | 9.000 | N | 9.6 |
| 0.5923 | 36.94 | 56.00 | 19.06 | 9.000 | N | 9.6 |
| 0.6890 | 38.17 | 56.00 | 17.83 | 9.000 | N | 9.6 |
| 0.6958 | 37.79 | 56.00 | 18.21 | 9.000 | N | 9.6 |
| 1.2628 | 35.54 | 56.00 | 20.46 | 9.000 | N | 9.7 |
| 1.2808 | 33.92 | 56.00 | 22.08 | 9.000 | N | 9.7 |
| 1.2898 | 35.47 | 56.00 | 20.53 | 9.000 | N | 9.7 |
| 1.4045 | 33.02 | 56.00 | 22.98 | 9.000 | N | 9.7 |
| 1.4090 | 33.39 | 56.00 | 22.61 | 9.000 | N | 9.7 |
| 1.4203 | 33.46 | 56.00 | 22.54 | 9.000 | N | 9.7 |
| 19.4158 | 45.11 | 60.00 | 14.89 | 9.000 | N | 10.4 |
| 19.4518 | 45.38 | 60.00 | 14.62 | 9.000 | N | 10.4 |
| 19.4608 | 44.86 | 60.00 | 15.14 | 9.000 | N | 10.4 |
| 19.4653 | 44.83 | 60.00 | 15.17 | 9.000 | N | 10.4 |
| 19.4833 | 44.74 | 60.00 | 15.26 | 9.000 | N | 10.4 |
| 19.6700 | 44.37 | 60.00 | 15.63 | 9.000 | N | 10.4 |

CAverage Final Result

| Frequency (kHz) | CAverage (dBμV) | Limit (dBμV) | Margin (dB) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|-----------------|--------------|-------------|-----------------|------|------------|
| 0.1500 | 20.27 | 56.00 | 35.73 | 9.000 | N | 9.6 |
| 0.5743 | 27.50 | 46.00 | 18.50 | 9.000 | N | 9.6 |
| 0.5945 | 25.98 | 46.00 | 20.02 | 9.000 | N | 9.6 |
| 0.6890 | 29.13 | 46.00 | 16.87 | 9.000 | N | 9.6 |
| 0.7115 | 27.65 | 46.00 | 18.35 | 9.000 | N | 9.7 |
| 0.7588 | 28.15 | 46.00 | 17.85 | 9.000 | N | 9.7 |
| 1.1908 | 27.16 | 46.00 | 18.84 | 9.000 | N | 9.7 |
| 1.2403 | 27.86 | 46.00 | 18.14 | 9.000 | N | 9.7 |
| 1.2628 | 28.44 | 46.00 | 17.56 | 9.000 | N | 9.7 |
| 1.2875 | 27.34 | 46.00 | 18.66 | 9.000 | N | 9.7 |
| 1.3123 | 27.23 | 46.00 | 18.77 | 9.000 | N | 9.7 |
| 1.4068 | 26.23 | 46.00 | 19.77 | 9.000 | N | 9.7 |
| 19.4540 | 30.05 | 50.00 | 19.95 | 9.000 | N | 10.4 |
| 19.4788 | 29.90 | 50.00 | 20.10 | 9.000 | N | 10.4 |
| 19.5013 | 29.12 | 50.00 | 20.88 | 9.000 | N | 10.4 |
| 19.6880 | 29.01 | 50.00 | 20.99 | 9.000 | N | 10.4 |
| 19.7128 | 29.11 | 50.00 | 20.89 | 9.000 | N | 10.4 |
| 19.7353 | 29.03 | 50.00 | 20.97 | 9.000 | N | 10.5 |

Figure 9: Charging+LTE Band 13 (LOW_ch5230)_RX Receiving, Line (L1)





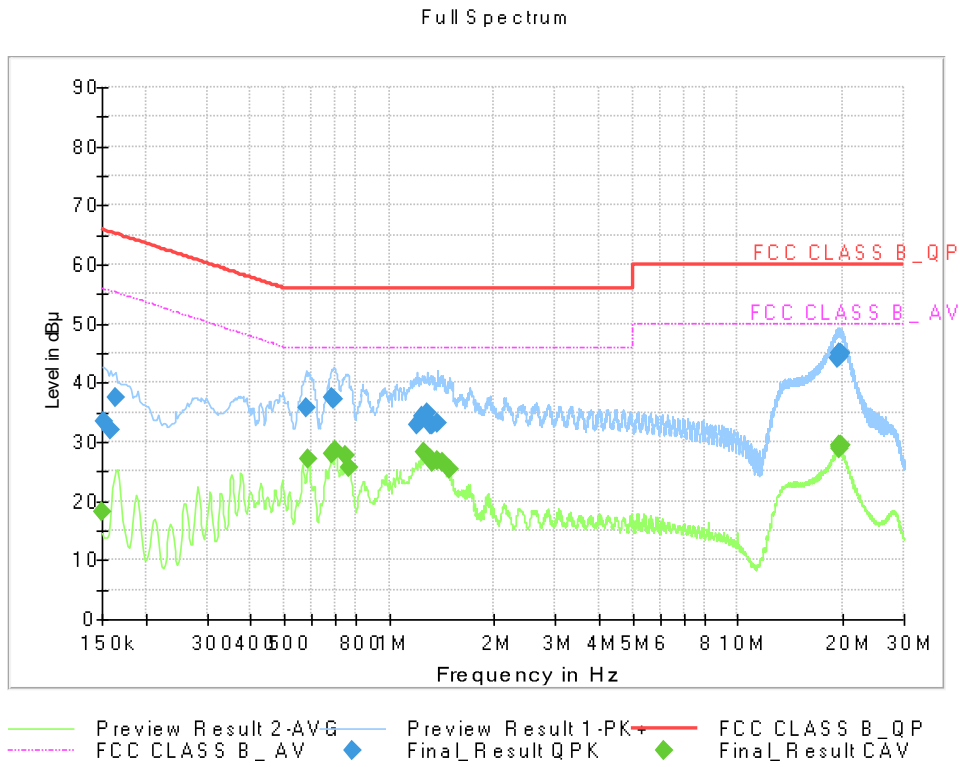
QuasiPeak Final Result

| Frequency (MHz) | QuasiPeak (dBμV) | Limit (dBμV) | Margin (dB) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|------------------|--------------|-------------|-----------------|------|------------|
| 0.6823 | 42.28 | 56.00 | 13.72 | 9.000 | L1 | 9.7 |
| 0.6913 | 41.71 | 56.00 | 14.29 | 9.000 | L1 | 9.7 |
| 0.6958 | 41.78 | 56.00 | 14.22 | 9.000 | L1 | 9.7 |
| 0.7048 | 42.45 | 56.00 | 13.55 | 9.000 | L1 | 9.7 |
| 0.7430 | 39.80 | 56.00 | 16.20 | 9.000 | L1 | 9.7 |
| 0.7565 | 40.93 | 56.00 | 15.07 | 9.000 | L1 | 9.7 |
| 1.1818 | 36.71 | 56.00 | 19.29 | 9.000 | L1 | 9.7 |
| 1.2020 | 36.08 | 56.00 | 19.92 | 9.000 | L1 | 9.7 |
| 1.2065 | 36.25 | 56.00 | 19.75 | 9.000 | L1 | 9.7 |
| 1.3955 | 37.38 | 56.00 | 18.62 | 9.000 | L1 | 9.7 |
| 1.4023 | 36.52 | 56.00 | 19.48 | 9.000 | L1 | 9.7 |
| 1.4158 | 36.93 | 56.00 | 19.07 | 9.000 | L1 | 9.7 |
| 19.4630 | 43.79 | 60.00 | 16.21 | 9.000 | L1 | 10.4 |
| 19.4900 | 44.01 | 60.00 | 15.99 | 9.000 | L1 | 10.4 |
| 19.6835 | 43.89 | 60.00 | 16.11 | 9.000 | L1 | 10.4 |
| 19.7038 | 44.33 | 60.00 | 15.67 | 9.000 | L1 | 10.4 |
| 19.7083 | 44.22 | 60.00 | 15.78 | 9.000 | L1 | 10.4 |
| 19.7285 | 44.10 | 60.00 | 15.90 | 9.000 | L1 | 10.4 |

CAverage Final Result

| Frequency (MHz) | CAverage (dBμV) | Limit (dBμV) | Margin (dB) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|-----------------|--------------|-------------|-----------------|------|------------|
| 0.5653 | 28.78 | 46.00 | 17.22 | 9.000 | L1 | 9.7 |
| 0.5878 | 30.49 | 46.00 | 15.51 | 9.000 | L1 | 9.7 |
| 0.6845 | 33.21 | 46.00 | 12.79 | 9.000 | L1 | 9.7 |
| 0.7070 | 33.32 | 46.00 | 12.68 | 9.000 | L1 | 9.7 |
| 0.7318 | 32.12 | 46.00 | 13.88 | 9.000 | L1 | 9.7 |
| 0.7543 | 32.41 | 46.00 | 13.59 | 9.000 | L1 | 9.7 |
| 1.1593 | 28.58 | 46.00 | 17.42 | 9.000 | L1 | 9.7 |
| 1.2065 | 28.57 | 46.00 | 17.43 | 9.000 | L1 | 9.7 |
| 1.3145 | 27.28 | 46.00 | 18.72 | 9.000 | L1 | 9.7 |
| 1.3258 | 27.96 | 46.00 | 18.04 | 9.000 | L1 | 9.7 |
| 1.3955 | 28.77 | 46.00 | 17.23 | 9.000 | L1 | 9.7 |
| 1.4203 | 28.14 | 46.00 | 17.86 | 9.000 | L1 | 9.7 |
| 19.4900 | 30.82 | 50.00 | 19.18 | 9.000 | L1 | 10.4 |
| 19.5125 | 30.76 | 50.00 | 19.24 | 9.000 | L1 | 10.4 |
| 19.6318 | 30.50 | 50.00 | 19.50 | 9.000 | L1 | 10.4 |
| 19.6565 | 31.24 | 50.00 | 18.76 | 9.000 | L1 | 10.4 |
| 19.7173 | 31.24 | 50.00 | 18.76 | 9.000 | L1 | 10.4 |
| 19.7375 | 31.12 | 50.00 | 18.88 | 9.000 | L1 | 10.4 |

Figure 10: Charging+LTE Band 13 (LOW_ch5230)_RX Receiving, Line (N)





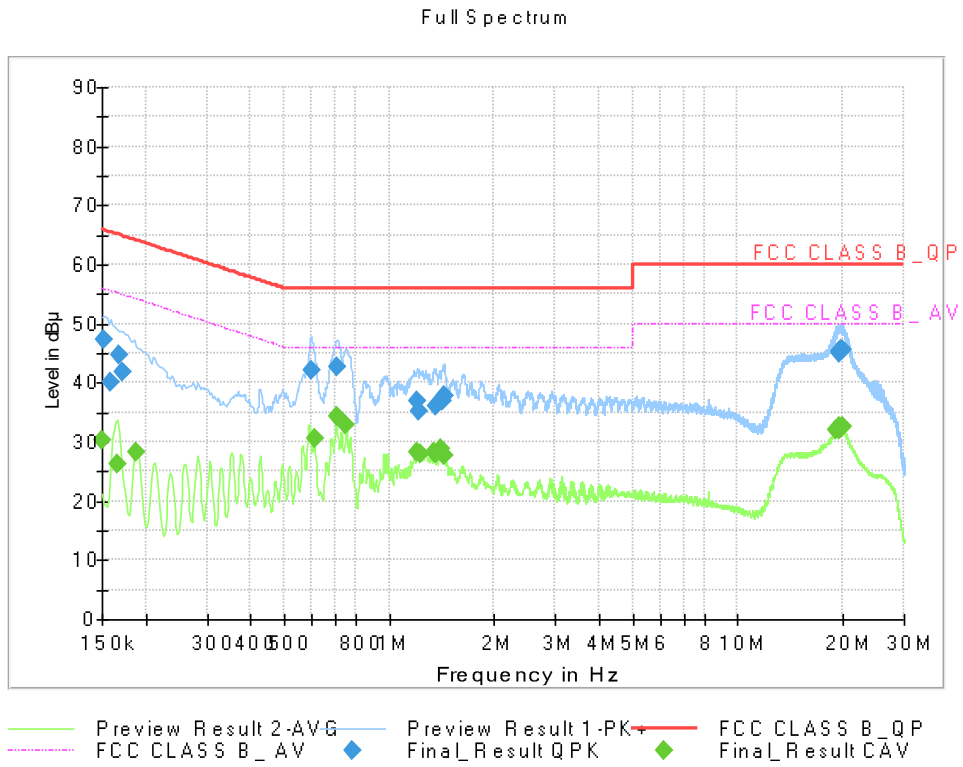
QuasiPeak Final Result

| Frequency (kHz) | QuasiPeak (dBμV) | Limit (dBμV) | Margin (dB) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|------------------|--------------|-------------|-----------------|------|------------|
| 0.1523 | 33.43 | 65.88 | 32.45 | 9.000 | N | 9.6 |
| 0.1590 | 32.10 | 65.52 | 33.42 | 9.000 | N | 9.6 |
| 0.1635 | 37.60 | 65.28 | 27.69 | 9.000 | N | 9.6 |
| 0.5765 | 35.74 | 56.00 | 20.26 | 9.000 | N | 9.6 |
| 0.6823 | 37.37 | 56.00 | 18.63 | 9.000 | N | 9.6 |
| 0.6935 | 37.21 | 56.00 | 18.79 | 9.000 | N | 9.6 |
| 1.2043 | 32.99 | 56.00 | 23.01 | 9.000 | N | 9.7 |
| 1.2425 | 34.22 | 56.00 | 21.78 | 9.000 | N | 9.7 |
| 1.2853 | 34.95 | 56.00 | 21.05 | 9.000 | N | 9.7 |
| 1.3168 | 32.87 | 56.00 | 23.13 | 9.000 | N | 9.7 |
| 1.3370 | 32.76 | 56.00 | 23.24 | 9.000 | N | 9.7 |
| 1.3775 | 33.11 | 56.00 | 22.89 | 9.000 | N | 9.7 |
| 19.4473 | 44.24 | 60.00 | 15.76 | 9.000 | N | 10.4 |
| 19.4743 | 44.52 | 60.00 | 15.48 | 9.000 | N | 10.4 |
| 19.4990 | 44.88 | 60.00 | 15.12 | 9.000 | N | 10.4 |
| 19.5058 | 45.10 | 60.00 | 14.90 | 9.000 | N | 10.4 |
| 19.5148 | 44.91 | 60.00 | 15.09 | 9.000 | N | 10.4 |
| 19.6925 | 45.06 | 60.00 | 14.94 | 9.000 | N | 10.4 |

CAverage Final Result

| Frequency (kHz) | CAverage (dBμV) | Limit (dBμV) | Margin (dB) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|-----------------|--------------|-------------|-----------------|------|------------|
| 0.1500 | 18.24 | 56.00 | 37.76 | 9.000 | N | 9.6 |
| 0.5878 | 27.00 | 46.00 | 19.00 | 9.000 | N | 9.6 |
| 0.6823 | 28.00 | 46.00 | 18.00 | 9.000 | N | 9.6 |
| 0.7025 | 28.57 | 46.00 | 17.43 | 9.000 | N | 9.7 |
| 0.7520 | 27.60 | 46.00 | 18.40 | 9.000 | N | 9.7 |
| 0.7655 | 25.81 | 46.00 | 20.19 | 9.000 | N | 9.7 |
| 1.2628 | 28.19 | 46.00 | 17.81 | 9.000 | N | 9.7 |
| 1.3123 | 27.13 | 46.00 | 18.87 | 9.000 | N | 9.7 |
| 1.3370 | 26.63 | 46.00 | 19.37 | 9.000 | N | 9.7 |
| 1.3753 | 26.76 | 46.00 | 19.24 | 9.000 | N | 9.7 |
| 1.4225 | 26.49 | 46.00 | 19.51 | 9.000 | N | 9.7 |
| 1.4945 | 25.51 | 46.00 | 20.49 | 9.000 | N | 9.7 |
| 19.4675 | 28.91 | 50.00 | 21.09 | 9.000 | N | 10.4 |
| 19.5058 | 29.11 | 50.00 | 20.89 | 9.000 | N | 10.4 |
| 19.5148 | 29.38 | 50.00 | 20.62 | 9.000 | N | 10.4 |
| 19.5238 | 29.34 | 50.00 | 20.66 | 9.000 | N | 10.4 |
| 19.7173 | 29.42 | 50.00 | 20.58 | 9.000 | N | 10.4 |
| 19.7263 | 29.43 | 50.00 | 20.57 | 9.000 | N | 10.5 |

Figure 11: Charging+LTE Band 13 (LOW_ch5279)_RX Receiving, Line (L1)





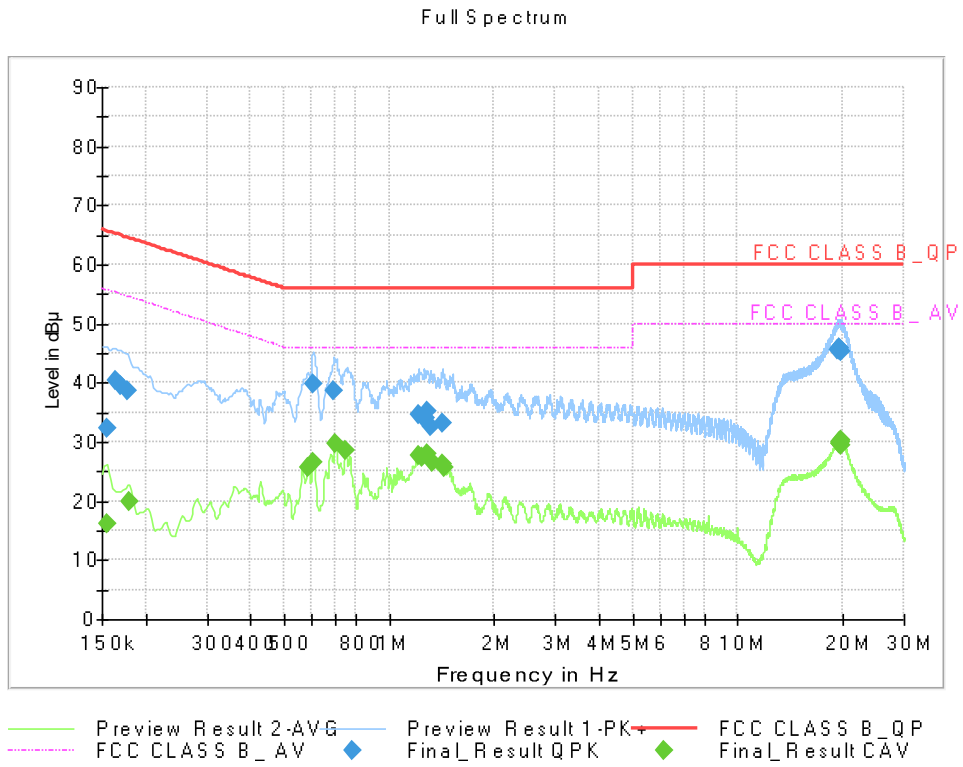
QuasiPeak Final Result

| Frequency (MHz) | QuasiPeak (dBμV) | Limit (dBμV) | Margin (dB) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|------------------|--------------|-------------|-----------------|------|------------|
| 0.1523 | 47.27 | 65.88 | 18.60 | 9.000 | L1 | 9.6 |
| 0.1590 | 40.09 | 65.52 | 25.42 | 9.000 | L1 | 9.6 |
| 0.1680 | 44.64 | 65.06 | 20.42 | 9.000 | L1 | 9.6 |
| 0.1725 | 41.94 | 64.84 | 22.90 | 9.000 | L1 | 9.6 |
| 0.5968 | 42.18 | 56.00 | 13.82 | 9.000 | L1 | 9.7 |
| 0.7115 | 42.77 | 56.00 | 13.23 | 9.000 | L1 | 9.7 |
| 1.2020 | 36.97 | 56.00 | 19.03 | 9.000 | L1 | 9.7 |
| 1.2088 | 35.08 | 56.00 | 20.92 | 9.000 | L1 | 9.7 |
| 1.3550 | 35.97 | 56.00 | 20.03 | 9.000 | L1 | 9.7 |
| 1.4203 | 36.80 | 56.00 | 19.20 | 9.000 | L1 | 9.7 |
| 1.4315 | 37.87 | 56.00 | 18.13 | 9.000 | L1 | 9.7 |
| 1.4360 | 37.81 | 56.00 | 18.19 | 9.000 | L1 | 9.7 |
| 19.4743 | 45.17 | 60.00 | 14.83 | 9.000 | L1 | 10.4 |
| 19.4833 | 45.12 | 60.00 | 14.88 | 9.000 | L1 | 10.4 |
| 19.6723 | 45.27 | 60.00 | 14.73 | 9.000 | L1 | 10.4 |
| 19.6768 | 45.62 | 60.00 | 14.38 | 9.000 | L1 | 10.4 |
| 19.7038 | 45.49 | 60.00 | 14.51 | 9.000 | L1 | 10.4 |
| 19.9063 | 45.59 | 60.00 | 14.41 | 9.000 | L1 | 10.4 |

CAverage Final Result

| Frequency (MHz) | CAverage (dBμV) | Limit (dBμV) | Margin (dB) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|-----------------|--------------|-------------|-----------------|------|------------|
| 0.1500 | 30.27 | 56.00 | 25.73 | 9.000 | L1 | 9.6 |
| 0.1658 | 26.18 | 55.17 | 28.99 | 9.000 | L1 | 9.6 |
| 0.1883 | 28.32 | 54.11 | 25.79 | 9.000 | L1 | 9.6 |
| 0.6103 | 30.64 | 46.00 | 15.36 | 9.000 | L1 | 9.7 |
| 0.7048 | 34.44 | 46.00 | 11.56 | 9.000 | L1 | 9.7 |
| 0.7520 | 32.75 | 46.00 | 13.25 | 9.000 | L1 | 9.7 |
| 1.2020 | 28.22 | 46.00 | 17.78 | 9.000 | L1 | 9.7 |
| 1.2245 | 28.07 | 46.00 | 17.93 | 9.000 | L1 | 9.7 |
| 1.3393 | 28.35 | 46.00 | 17.65 | 9.000 | L1 | 9.7 |
| 1.3640 | 27.90 | 46.00 | 18.10 | 9.000 | L1 | 9.7 |
| 1.4113 | 28.95 | 46.00 | 17.05 | 9.000 | L1 | 9.7 |
| 1.4360 | 27.67 | 46.00 | 18.33 | 9.000 | L1 | 9.7 |
| 19.2200 | 31.99 | 50.00 | 18.01 | 9.000 | L1 | 10.4 |
| 19.4788 | 32.15 | 50.00 | 17.85 | 9.000 | L1 | 10.4 |
| 19.6700 | 32.56 | 50.00 | 17.44 | 9.000 | L1 | 10.4 |
| 19.6948 | 32.30 | 50.00 | 17.70 | 9.000 | L1 | 10.4 |
| 19.7330 | 32.39 | 50.00 | 17.61 | 9.000 | L1 | 10.4 |
| 19.9063 | 32.62 | 50.00 | 17.38 | 9.000 | L1 | 10.4 |

Figure 12: Charging+LTE Band 13 (LOW_ch5279)_RX Receiving, Line (N)





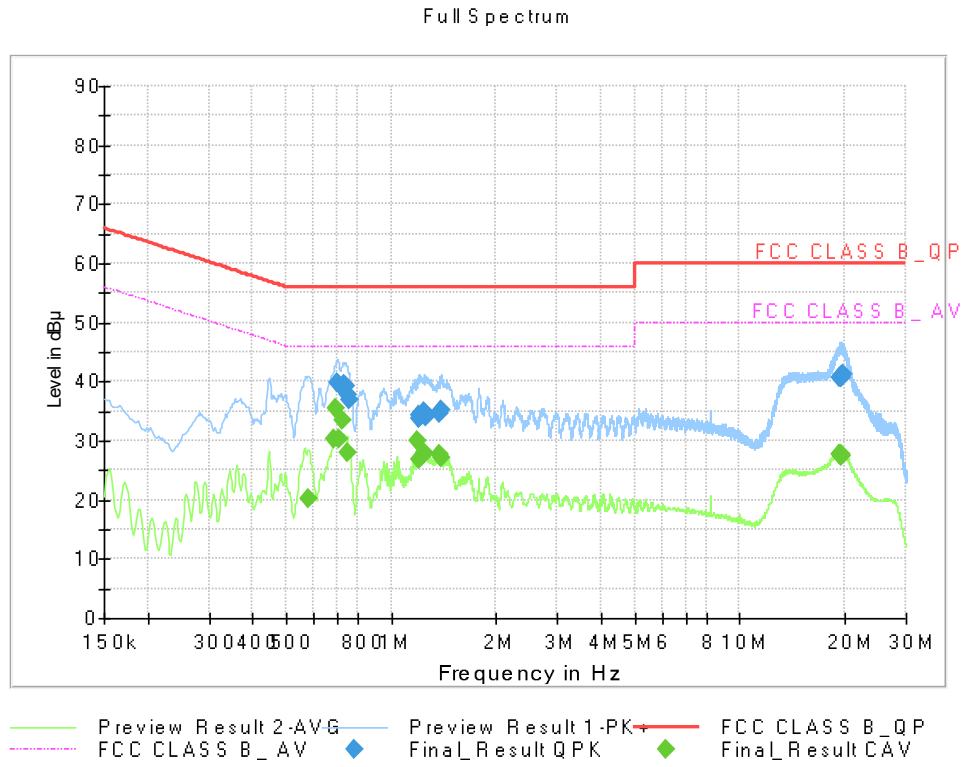
QuasiPeak Final Result

| Frequency (MHz) | QuasiPeak (dBμV) | Limit (dBμV) | Margin (dB) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|------------------|--------------|-------------|-----------------|------|------------|
| 0.1545 | 32.39 | 65.75 | 33.37 | 9.000 | N | 9.6 |
| 0.1635 | 40.30 | 65.28 | 24.98 | 9.000 | N | 9.6 |
| 0.1703 | 39.44 | 64.95 | 25.50 | 9.000 | N | 9.6 |
| 0.1770 | 38.78 | 64.63 | 25.84 | 9.000 | N | 9.6 |
| 0.6080 | 39.95 | 56.00 | 16.05 | 9.000 | N | 9.6 |
| 0.6958 | 38.73 | 56.00 | 17.27 | 9.000 | N | 9.6 |
| 1.2200 | 34.61 | 56.00 | 21.39 | 9.000 | N | 9.7 |
| 1.2583 | 34.10 | 56.00 | 21.90 | 9.000 | N | 9.7 |
| 1.2785 | 33.94 | 56.00 | 22.06 | 9.000 | N | 9.7 |
| 1.2920 | 35.15 | 56.00 | 20.85 | 9.000 | N | 9.7 |
| 1.3190 | 32.48 | 56.00 | 23.52 | 9.000 | N | 9.7 |
| 1.4225 | 33.28 | 56.00 | 22.72 | 9.000 | N | 9.7 |
| 19.3505 | 45.64 | 60.00 | 14.36 | 9.000 | N | 10.4 |
| 19.5598 | 45.83 | 60.00 | 14.17 | 9.000 | N | 10.4 |
| 19.5733 | 45.84 | 60.00 | 14.16 | 9.000 | N | 10.4 |
| 19.5778 | 45.70 | 60.00 | 14.31 | 9.000 | N | 10.4 |
| 19.5958 | 45.62 | 60.00 | 14.38 | 9.000 | N | 10.4 |
| 19.7555 | 45.33 | 60.00 | 14.67 | 9.000 | N | 10.5 |

CAverage Final Result

| Frequency (MHz) | CAverage (dBμV) | Limit (dBμV) | Margin (dB) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|-----------------|--------------|-------------|-----------------|------|------------|
| 0.1545 | 16.29 | 55.75 | 39.47 | 9.000 | N | 9.6 |
| 0.1793 | 20.02 | 54.52 | 34.50 | 9.000 | N | 9.6 |
| 0.5855 | 25.72 | 46.00 | 20.28 | 9.000 | N | 9.6 |
| 0.6058 | 26.59 | 46.00 | 19.41 | 9.000 | N | 9.6 |
| 0.7003 | 29.77 | 46.00 | 16.23 | 9.000 | N | 9.7 |
| 0.7475 | 28.44 | 46.00 | 17.56 | 9.000 | N | 9.7 |
| 1.2178 | 27.60 | 46.00 | 18.40 | 9.000 | N | 9.7 |
| 1.2425 | 27.44 | 46.00 | 18.56 | 9.000 | N | 9.7 |
| 1.2898 | 28.07 | 46.00 | 17.93 | 9.000 | N | 9.7 |
| 1.3370 | 26.52 | 46.00 | 19.48 | 9.000 | N | 9.7 |
| 1.4225 | 26.15 | 46.00 | 19.85 | 9.000 | N | 9.7 |
| 1.4315 | 25.64 | 46.00 | 20.36 | 9.000 | N | 9.7 |
| 19.5890 | 29.88 | 50.00 | 20.12 | 9.000 | N | 10.4 |
| 19.6003 | 29.77 | 50.00 | 20.23 | 9.000 | N | 10.4 |
| 19.6093 | 29.63 | 50.00 | 20.37 | 9.000 | N | 10.4 |
| 19.7555 | 30.15 | 50.00 | 19.85 | 9.000 | N | 10.5 |
| 19.7803 | 29.91 | 50.00 | 20.09 | 9.000 | N | 10.5 |
| 19.8095 | 29.55 | 50.00 | 20.45 | 9.000 | N | 10.5 |

Figure 13: Charging+CDMA BC1+LTE Band 2+LTE Ban 4+LTE Ban 66+ GPS, Line (L1)





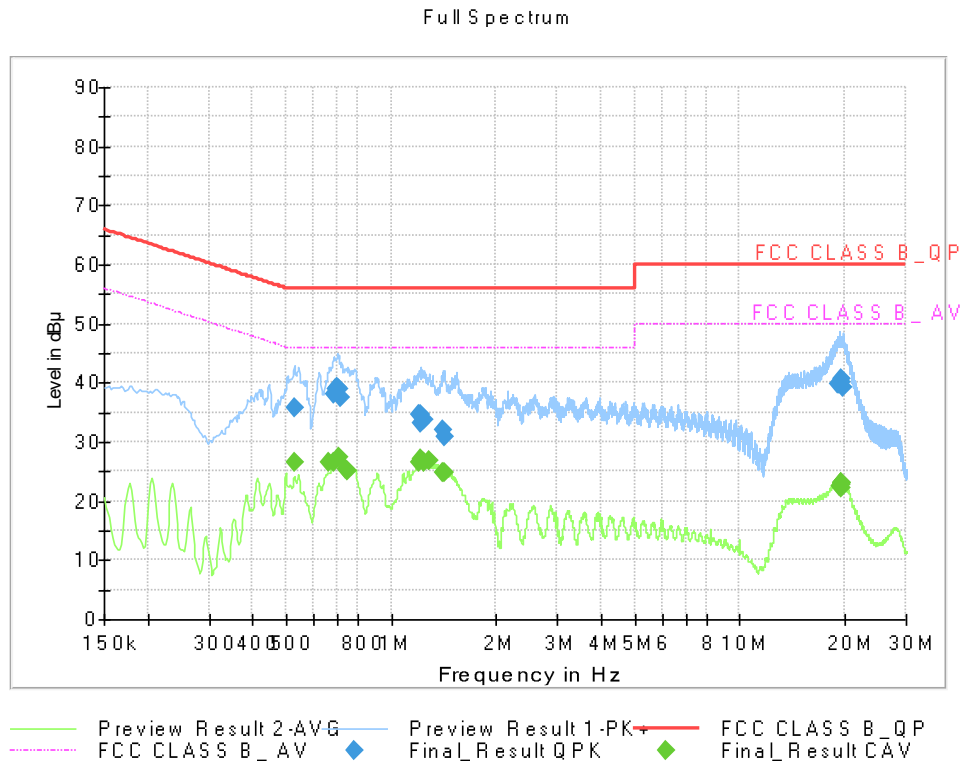
QuasiPeak Final Result

| Frequency (MHz) | QuasiPeak (dBμV) | Limit (dBμV) | Margin (dB) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|------------------|--------------|-------------|-----------------|------|------------|
| 0.7003 | 39.80 | 56.00 | 16.20 | 9.000 | L1 | 9.7 |
| 0.7273 | 38.89 | 56.00 | 17.11 | 9.000 | L1 | 9.7 |
| 0.7318 | 39.48 | 56.00 | 16.52 | 9.000 | L1 | 9.7 |
| 0.7385 | 39.33 | 56.00 | 16.67 | 9.000 | L1 | 9.7 |
| 0.7498 | 37.65 | 56.00 | 18.35 | 9.000 | L1 | 9.7 |
| 0.7565 | 36.80 | 56.00 | 19.20 | 9.000 | L1 | 9.7 |
| 1.2020 | 33.62 | 56.00 | 22.38 | 9.000 | L1 | 9.7 |
| 1.2065 | 34.21 | 56.00 | 21.79 | 9.000 | L1 | 9.7 |
| 1.2403 | 35.01 | 56.00 | 20.99 | 9.000 | L1 | 9.7 |
| 1.2628 | 34.08 | 56.00 | 21.92 | 9.000 | L1 | 9.7 |
| 1.3753 | 34.55 | 56.00 | 21.45 | 9.000 | L1 | 9.7 |
| 1.3910 | 35.07 | 56.00 | 20.93 | 9.000 | L1 | 9.7 |
| 19.3280 | 40.55 | 60.00 | 19.45 | 9.000 | L1 | 10.4 |
| 19.5418 | 40.59 | 60.00 | 19.41 | 9.000 | L1 | 10.4 |
| 19.5643 | 40.85 | 60.00 | 19.15 | 9.000 | L1 | 10.4 |
| 19.5733 | 40.85 | 60.00 | 19.15 | 9.000 | L1 | 10.4 |
| 19.5845 | 40.76 | 60.00 | 19.24 | 9.000 | L1 | 10.4 |
| 19.7780 | 41.33 | 60.00 | 18.67 | 9.000 | L1 | 10.4 |

CAverage Final Result

| Frequency (MHz) | CAverage (dBμV) | Limit (dBμV) | Margin (dB) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|-----------------|--------------|-------------|-----------------|------|------------|
| 0.5788 | 20.16 | 46.00 | 25.84 | 9.000 | L1 | 9.7 |
| 0.6845 | 30.20 | 46.00 | 15.80 | 9.000 | L1 | 9.7 |
| 0.6935 | 35.55 | 46.00 | 10.45 | 9.000 | L1 | 9.7 |
| 0.7115 | 30.41 | 46.00 | 15.59 | 9.000 | L1 | 9.7 |
| 0.7273 | 33.34 | 46.00 | 12.66 | 9.000 | L1 | 9.7 |
| 0.7453 | 27.84 | 46.00 | 18.16 | 9.000 | L1 | 9.7 |
| 1.1885 | 30.07 | 46.00 | 15.93 | 9.000 | L1 | 9.7 |
| 1.2065 | 26.76 | 46.00 | 19.24 | 9.000 | L1 | 9.7 |
| 1.2245 | 27.31 | 46.00 | 18.69 | 9.000 | L1 | 9.7 |
| 1.2403 | 28.02 | 46.00 | 17.98 | 9.000 | L1 | 9.7 |
| 1.3753 | 27.57 | 46.00 | 18.43 | 9.000 | L1 | 9.7 |
| 1.3933 | 27.08 | 46.00 | 18.92 | 9.000 | L1 | 9.7 |
| 19.3100 | 27.65 | 50.00 | 22.35 | 9.000 | L1 | 10.4 |
| 19.3280 | 27.59 | 50.00 | 22.41 | 9.000 | L1 | 10.4 |
| 19.4900 | 27.71 | 50.00 | 22.29 | 9.000 | L1 | 10.4 |
| 19.5215 | 27.48 | 50.00 | 22.52 | 9.000 | L1 | 10.4 |
| 19.5553 | 27.36 | 50.00 | 22.64 | 9.000 | L1 | 10.4 |
| 19.5755 | 27.28 | 50.00 | 22.72 | 9.000 | L1 | 10.4 |

Figure 14: Charging+CDMA BC1+LTE Band 2+LTE Ban 4+LTE Ban 66+ GPS, Line (N)



QuasiPeak Final Result

| Frequency (MHz) | QuasiPeak (dBμV) | Limit (dBμV) | Margin (dB) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|------------------|--------------|-------------|-----------------|------|------------|
| 0.5270 | 35.73 | 56.00 | 20.27 | 9.000 | N | 9.6 |
| 0.6845 | 37.99 | 56.00 | 18.01 | 9.000 | N | 9.6 |
| 0.6913 | 38.81 | 56.00 | 17.19 | 9.000 | N | 9.6 |
| 0.7003 | 39.26 | 56.00 | 16.74 | 9.000 | N | 9.7 |
| 0.7070 | 38.95 | 56.00 | 17.05 | 9.000 | N | 9.7 |
| 0.7183 | 37.46 | 56.00 | 18.54 | 9.000 | N | 9.7 |
| 1.2043 | 34.65 | 56.00 | 21.35 | 9.000 | N | 9.7 |
| 1.2178 | 34.50 | 56.00 | 21.50 | 9.000 | N | 9.7 |
| 1.2223 | 33.09 | 56.00 | 22.91 | 9.000 | N | 9.7 |
| 1.2380 | 33.62 | 56.00 | 22.38 | 9.000 | N | 9.7 |
| 1.4090 | 32.13 | 56.00 | 23.87 | 9.000 | N | 9.7 |
| 1.4158 | 30.78 | 56.00 | 25.22 | 9.000 | N | 9.7 |
| 19.0715 | 39.75 | 60.00 | 20.25 | 9.000 | N | 10.4 |
| 19.3595 | 39.67 | 60.00 | 20.33 | 9.000 | N | 10.4 |
| 19.4023 | 39.67 | 60.00 | 20.33 | 9.000 | N | 10.4 |
| 19.4900 | 40.17 | 60.00 | 19.83 | 9.000 | N | 10.4 |
| 19.5283 | 40.55 | 60.00 | 19.45 | 9.000 | N | 10.4 |
| 19.6925 | 39.09 | 60.00 | 20.91 | 9.000 | N | 10.4 |

CAverage Final Result

| Frequency (MHz) | CAverage (dBμV) | Limit (dBμV) | Margin (dB) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|-----------------|--------------|-------------|-----------------|------|------------|
| 0.5270 | 26.44 | 46.00 | 19.56 | 9.000 | N | 9.6 |
| 0.6620 | 26.54 | 46.00 | 19.46 | 9.000 | N | 9.6 |
| 0.6845 | 26.45 | 46.00 | 19.55 | 9.000 | N | 9.6 |
| 0.7048 | 27.36 | 46.00 | 18.64 | 9.000 | N | 9.7 |
| 0.7385 | 25.52 | 46.00 | 20.48 | 9.000 | N | 9.7 |
| 0.7520 | 25.21 | 46.00 | 20.79 | 9.000 | N | 9.7 |
| 1.1975 | 26.56 | 46.00 | 19.44 | 9.000 | N | 9.7 |
| 1.2178 | 27.01 | 46.00 | 18.99 | 9.000 | N | 9.7 |
| 1.2403 | 26.41 | 46.00 | 19.59 | 9.000 | N | 9.7 |
| 1.2898 | 26.87 | 46.00 | 19.13 | 9.000 | N | 9.7 |
| 1.4090 | 24.82 | 46.00 | 21.18 | 9.000 | N | 9.7 |
| 1.4225 | 24.81 | 46.00 | 21.19 | 9.000 | N | 9.7 |
| 19.4180 | 22.39 | 50.00 | 27.61 | 9.000 | N | 10.4 |
| 19.4563 | 22.79 | 50.00 | 27.21 | 9.000 | N | 10.4 |
| 19.4900 | 22.98 | 50.00 | 27.02 | 9.000 | N | 10.4 |
| 19.5125 | 23.16 | 50.00 | 26.84 | 9.000 | N | 10.4 |
| 19.5305 | 22.95 | 50.00 | 27.05 | 9.000 | N | 10.4 |
| 19.5935 | 22.30 | 50.00 | 27.70 | 9.000 | N | 10.4 |

4.2 Radiated Emission Below 1 GHz

4.2.1 Measuring instruments

| Type | Model Name | Manufacturer | Serial Number | Calibration Cycle | Calibration Date |
|---|--------------|-----------------|------------------------|-------------------|------------------|
| <input checked="" type="checkbox"/> EMI Test Receiver | ESU40 | Rohde & Schwarz | 100524 | 1 year | 05.12.2021 |
| <input checked="" type="checkbox"/> Bilog Antenna | VULB9168 | Schwarzbeck | 255 | 2 year | 03.15.2021 |
| <input checked="" type="checkbox"/> Antenna master | MA4640-XP-ET | INNCO SYSTEM | - | - | - |
| <input checked="" type="checkbox"/> Antenna master controller | CO3000 | INNCO SYSTEM | CO3000/870 /35990515/L | - | - |
| <input checked="" type="checkbox"/> Turn Table | 1060 | INNCO SYSTEM | - | - | - |
| <input checked="" type="checkbox"/> Turn Table controller | CO2000 | INNCO SYSTEM | CO2000/095 /7590304/L | - | - |
| <input checked="" type="checkbox"/> Software | EMC32 | Rohde & Schwarz | - | - | - |

4.2.2 Operating Condition

The test results of radiated emission provide the following information:

| | |
|---------------------------|---|
| Used Test Standard | FCC CFR 47 PART 15 Subpart B Class B ANSI C63.4-2014 |
| Frequency Range | 30 MHz to 1 000 MHz |
| Detector | Quasi-Peak |
| Bandwidth | 120 kHz (6 dB) |
| Test Site | 3 m Semi Anechoic Chamber #1 |
| Temperature | min. 17.6 / max. 18.8 °C |
| Relative Humidity | min. 36.8 / max. 41.9 % |
| Test Date | December 19 / December 21, 2021 |

- Calculation Formula:**
1. POL. H = Horizontal, POL. V = Vertical
 2. QuasiPeak = Reading (Receiver Reading) + Corr.
 3. Corr. (Correction Factor) = Antenna Factor + Cable Loss
 4. Margin = Limit - QuasiPeak

4.2.3 Measuring Data

[EUT] CDMA BC0+LTE Band 5 (LOW_ch2400)_RX Receiving

| Frequency (MHz) | Quasi Peak (dBμV/m) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|---------------------|---------------------|------------|---------------|------------|-------------|----------------|
| 34.220640 | 17.3 | 274.8 | V | 65.0 | 18.8 | 22.7 | 40.0 |
| 51.631240 | 18.6 | 192.8 | V | 148.0 | 20.0 | 21.4 | 40.0 |
| 60.811480 | 17.1 | 100.0 | H | 38.0 | 19.5 | 22.9 | 40.0 |
| 178.963560 | 18.3 | 325.1 | V | 196.0 | 18.4 | 25.2 | 43.5 |
| 383.941360 | 28.0 | 100.0 | H | 320.0 | 22.4 | 18.0 | 46.0 |
| 686.859160 | 28.3 | 225.1 | V | 143.0 | 28.5 | 17.7 | 46.0 |

[EUT] CDMA BC0+LTE Band 5 Middle_ch2525)_RX Receiving

| Frequency (MHz) | Quasi Peak (dBμV/m) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|---------------------|---------------------|------------|---------------|------------|-------------|----------------|
| 31.8589 | 17.6 | 206.9 | V | 278.0 | 18.6 | 22.4 | 40.0 |
| 50.2370 | 18.6 | 207.8 | V | 350.0 | 20.0 | 21.4 | 40.0 |
| 63.2738 | 16.9 | 325.2 | V | 100.0 | 19.1 | 23.1 | 40.0 |
| 114.5559 | 20.7 | 225.1 | V | 43.0 | 16.5 | 22.8 | 43.5 |
| 494.2802 | 24.3 | 274.7 | V | 340.0 | 25.3 | 21.7 | 46.0 |
| 675.395320 | 28.2 | 325.1 | H | 202.0 | 28.4 | 17.8 | 46.0 |

[EUT] CDMA BC0+LTE Band 5 (High_ch2646)_RX Receiving

| Frequency (MHz) | Quasi Peak (dBμV/m) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|---------------------|---------------------|------------|---------------|------------|-------------|----------------|
| 33.9304 | 17.6 | 193.7 | V | 122.0 | 18.8 | 22.4 | 40.0 |
| 51.9966 | 18.4 | 117.9 | V | 77.0 | 20.0 | 21.6 | 40.0 |
| 149.7061 | 17.3 | 125.3 | V | 14.0 | 19.4 | 26.2 | 43.5 |
| 383.9309 | 20.9 | 125.2 | H | 116.0 | 22.4 | 25.1 | 46.0 |
| 480.1955 | 24.0 | 199.8 | V | 244.0 | 24.9 | 22.0 | 46.0 |
| 686.1082 | 28.3 | 100.0 | V | 149.0 | 28.5 | 17.7 | 46.0 |

[EUT] LTE Band 13 (LOW_ch5180)_RX Receiving

| Frequency (MHz) | Quasi Peak (dBμV/m) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|---------------------|---------------------|------------|---------------|------------|-------------|----------------|
| 34.096520 | 18.1 | 191.8 | V | 354.0 | 18.8 | 21.9 | 40.0 |
| 50.226200 | 18.2 | 174.9 | V | 264.0 | 20.0 | 21.8 | 40.0 |
| 64.419520 | 16.8 | 117.0 | H | 247.0 | 19.0 | 23.2 | 40.0 |
| 114.472760 | 15.5 | 208.7 | V | 338.0 | 16.5 | 28.0 | 43.5 |
| 384.032280 | 28.4 | 100.0 | H | 0.0 | 22.4 | 17.6 | 46.0 |
| 660.936680 | 28.0 | 174.8 | V | 109.0 | 28.2 | 18.0 | 46.0 |

[EUT] LTE Band 13 (LOW_ch5230)_RX Receiving

| Frequency (MHz) | Quasi Peak (dBμV/m) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|---------------------|---------------------|------------|---------------|------------|-------------|----------------|
| 31.6150 | 17.3 | 207.7 | V | 158.0 | 18.6 | 22.7 | 40.0 |
| 57.0617 | 17.4 | 225.1 | V | 15.0 | 19.7 | 22.6 | 40.0 |
| 62.7986 | 17.0 | 100.0 | V | 0.0 | 19.2 | 23.0 | 40.0 |
| 114.5673 | 20.5 | 174.8 | V | 119.0 | 16.5 | 23.0 | 43.5 |
| 481.5445 | 24.0 | 100.0 | H | 134.0 | 25.0 | 22.0 | 46.0 |
| 684.1599 | 28.3 | 125.0 | V | 183.0 | 28.5 | 17.7 | 46.0 |

[EUT] LTE Band 13 (LOW_ch5279)_RX Receiving

| Frequency (MHz) | Quasi Peak (dBμV/m) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|---------------------|---------------------|------------|---------------|------------|-------------|----------------|
| 41.9886 | 17.5 | 174.7 | V | 0.0 | 19.5 | 22.5 | 40.0 |
| 54.4460 | 17.7 | 117.8 | V | 83.0 | 19.8 | 22.3 | 40.0 |
| 65.2369 | 16.6 | 117.9 | V | 27.0 | 18.9 | 23.4 | 40.0 |
| 256.1379 | 17.4 | 225.1 | V | 87.0 | 19.0 | 28.6 | 46.0 |
| 486.2356 | 24.1 | 100.0 | H | 44.0 | 25.1 | 21.9 | 46.0 |
| 699.9955 | 28.5 | 174.8 | V | 19.0 | 28.7 | 17.5 | 46.0 |

[EUT] IDLE+ GPS

| Frequency (MHz) | Quasi Peak (dB μ V/m) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dB μ V/m) |
|-----------------|---------------------------|---------------------|------------|---------------|------------|-------------|----------------------|
| 34.0245 | 18.0 | 191.8 | V | 42.0 | 18.8 | 22.0 | 40.0 |
| 51.2408 | 19.0 | 116.8 | V | 200.0 | 20.0 | 21.0 | 40.0 |
| 383.9600 | 28.6 | 100.0 | H | 13.0 | 22.4 | 17.4 | 46.0 |
| 492.3428 | 24.3 | 199.8 | H | 21.0 | 25.2 | 21.7 | 46.0 |
| 688.4641 | 28.4 | 125.0 | H | 5.0 | 28.5 | 17.6 | 46.0 |
| 916.6273 | 31.6 | 205.7 | V | 64.0 | 31.6 | 14.4 | 46.0 |

[EUT+TA] Charging+CDMA BC0+LTE Band 5 (LOW_ch2400)_RX Receiving

| Frequency (MHz) | Quasi Peak (dB μ V/m) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dB μ V/m) |
|-----------------|---------------------------|---------------------|------------|---------------|------------|-------------|----------------------|
| 39.9070 | 22.5 | 116.8 | V | 120.0 | 19.3 | 17.5 | 40.0 |
| 66.0627 | 22.9 | 100.0 | V | 3.0 | 18.8 | 17.1 | 40.0 |
| 109.2478 | 24.8 | 125.0 | V | 13.0 | 16.0 | 18.7 | 43.5 |
| 138.6160 | 24.7 | 100.0 | V | 178.0 | 19.1 | 18.8 | 43.5 |
| 180.0536 | 26.8 | 100.0 | V | 129.0 | 18.3 | 16.7 | 43.5 |
| 383.9598 | 27.3 | 100.0 | H | 13.0 | 22.4 | 18.7 | 46.0 |

[EUT+TA] Charging+CDMA BC0+LTE Band 5 Middle_ch2525)_RX Receiving

| Frequency (MHz) | Quasi Peak (dB μ V/m) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dB μ V/m) |
|-----------------|---------------------------|---------------------|------------|---------------|------------|-------------|----------------------|
| 40.0018 | 22.2 | 117.8 | V | 110.0 | 19.3 | 17.8 | 40.0 |
| 66.6078 | 22.2 | 116.7 | V | 163.0 | 18.7 | 17.8 | 40.0 |
| 111.7140 | 24.0 | 117.9 | V | 35.0 | 16.2 | 19.5 | 43.5 |
| 138.0030 | 24.9 | 100.0 | V | 173.0 | 19.0 | 18.6 | 43.5 |
| 145.9016 | 27.0 | 100.0 | V | 171.0 | 19.3 | 16.5 | 43.5 |
| 181.7043 | 28.4 | 100.0 | V | 185.0 | 18.2 | 15.1 | 43.5 |

[EUT+TA] Charging+CDMA BC0+LTE Band 5 (High_ch2646)_RX Receiving

| Frequency (MHz) | Quasi Peak (dB μ V/m) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dB μ V/m) |
|-----------------|---------------------------|---------------------|------------|---------------|------------|-------------|----------------------|
| 40.0802 | 22.4 | 116.9 | V | 104.0 | 19.3 | 17.6 | 40.0 |
| 53.7588 | 21.0 | 116.8 | V | 167.0 | 19.9 | 19.0 | 40.0 |
| 66.2030 | 22.4 | 117.8 | V | 187.0 | 18.7 | 17.6 | 40.0 |
| 108.1875 | 22.5 | 125.3 | V | 56.0 | 15.9 | 21.0 | 43.5 |
| 145.1656 | 24.5 | 100.0 | V | 131.0 | 19.3 | 19.0 | 43.5 |
| 180.9818 | 28.4 | 100.0 | V | 165.0 | 18.2 | 15.1 | 43.5 |

[EUT+TA] Charging+LTE Band 13 (LOW_ch5180)_RX Receiving

| Frequency (MHz) | Quasi Peak (dB μ V/m) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dB μ V/m) |
|-----------------|---------------------------|---------------------|------------|---------------|------------|-------------|----------------------|
| 40.1125 | 22.8 | 100.0 | V | 109.0 | 19.3 | 17.2 | 40.0 |
| 66.1059 | 22.8 | 117.8 | V | 97.0 | 18.7 | 17.2 | 40.0 |
| 93.7362 | 18.5 | 100.0 | V | 301.0 | 14.5 | 25.0 | 43.5 |
| 108.6946 | 22.4 | 125.3 | V | 125.0 | 15.9 | 21.1 | 43.5 |
| 139.7833 | 24.4 | 100.0 | V | 151.0 | 19.2 | 19.1 | 43.5 |
| 181.2654 | 27.5 | 116.7 | V | 184.0 | 18.2 | 16.0 | 43.5 |

[EUT+TA] Charging+LTE Band 13 (LOW_ch5230)_RX Receiving

| Frequency (MHz) | Quasi Peak (dB μ V/m) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dB μ V/m) |
|-----------------|---------------------------|---------------------|------------|---------------|------------|-------------|----------------------|
| 39.4220 | 23.0 | 116.8 | V | 79.0 | 19.3 | 17.0 | 40.0 |
| 66.4784 | 21.5 | 116.8 | V | 31.0 | 18.7 | 18.5 | 40.0 |
| 93.8387 | 18.6 | 116.8 | V | 282.0 | 14.5 | 24.9 | 43.5 |
| 108.1932 | 22.5 | 125.2 | V | 58.0 | 15.9 | 21.0 | 43.5 |
| 134.9515 | 23.2 | 100.0 | V | 112.0 | 18.7 | 20.3 | 43.5 |
| 180.3316 | 28.3 | 100.0 | V | 177.0 | 18.3 | 15.2 | 43.5 |

[EUT+TA] Charging+LTE Band 13 (LOW_ch5279)_RX Receiving

| Frequency (MHz) | Quasi Peak (dB μ V/m) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dB μ V/m) |
|-----------------|---------------------------|---------------------|------------|---------------|------------|-------------|----------------------|
| 39.4756 | 22.5 | 116.7 | V | 118.0 | 19.3 | 17.5 | 40.0 |
| 66.7414 | 21.7 | 117.8 | V | 125.0 | 18.7 | 18.3 | 40.0 |
| 93.8231 | 18.6 | 116.7 | V | 280.0 | 14.5 | 24.9 | 43.5 |
| 108.6193 | 22.7 | 125.1 | V | 60.0 | 15.9 | 20.8 | 43.5 |
| 136.8616 | 24.7 | 99.8 | V | 181.0 | 18.9 | 18.8 | 43.5 |
| 179.9690 | 28.0 | 99.8 | V | 117.0 | 18.3 | 15.5 | 43.5 |

[EUT+TA] Charging+ IDLE+ GPS

| Frequency (MHz) | Quasi Peak (dB μ V/m) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dB μ V/m) |
|-----------------|---------------------------|---------------------|------------|---------------|------------|-------------|----------------------|
| 39.7495 | 23.1 | 100.0 | V | 97.0 | 19.3 | 16.9 | 40.0 |
| 66.0845 | 22.5 | 116.8 | V | 114.0 | 18.7 | 17.5 | 40.0 |
| 93.5535 | 18.2 | 100.0 | V | 306.0 | 14.5 | 25.3 | 43.5 |
| 108.0624 | 21.8 | 125.0 | V | 150.0 | 15.9 | 21.7 | 43.5 |
| 136.3382 | 31.2 | 100.0 | V | 184.0 | 18.8 | 12.3 | 43.5 |
| 180.5522 | 26.7 | 100.0 | V | 113.0 | 18.2 | 16.8 | 43.5 |

4.3 Radiated Emission Above 1 GHz

4.3.1 Measuring instruments

| Type | Model Name | Manufacturer | Serial Number | Calibration Cycle | Calibration Date |
|-------------------------------------|---------------------------|--------------|-----------------|---------------------------|----------------------|
| <input checked="" type="checkbox"/> | EMI test receiver | ESU40 | Rohde&Schwartz | 100361 | 1 year 09.17.2021 |
| <input checked="" type="checkbox"/> | Horn Antenna | BBHA 9120D | SCHWARZBECK | 296 | 1 year 02.02.2021 |
| <input checked="" type="checkbox"/> | Amplifier | CBLU5183530 | CERNEX | 24348 | 1 year 06.03.2021 |
| <input checked="" type="checkbox"/> | Antenna Master | MA4640-XP-ET | INNCO SYSTEM | - | - |
| <input checked="" type="checkbox"/> | Antenna Master Controller | CO3000 | INNCO SYSTEM | CO3000/1250 /4892320/P | - |
| <input checked="" type="checkbox"/> | Turn Table | DS2000-S | INNCO SYSTEM | - | - |
| <input checked="" type="checkbox"/> | Turn Table Controller | CO2000 | INNCO SYSTEM | CO3000/1250 /4892320/P | - |
| <input type="checkbox"/> | Horn Antenna | BBHA 9170 | Schwarzbeck | BBHA 9170 #786 | 1 year 11.16.2021 |
| <input type="checkbox"/> | Power Amplifier | TK-PA1840H | TESTEK | 170030-L | 1 year 03.09.2021 |
| <input type="checkbox"/> | Power Amplifier | TK-PA1804H | TESTEK | 170033-L | 1 year 03.03.2021 |
| <input checked="" type="checkbox"/> | Software | EMC32 | Rohde & Schwarz | - | - |

4.3.2 Operating Condition

The test results of radiated emission provide the following information:

| | |
|-------------------------------|---|
| Used Test Standard | FCC CFR 47 PART 15 Subpart B Class B ANSI C63.4-2014 |
| Detector | Peak (Bandwidth: 1 MHz) CISPR-Average (Bandwidth: 1 MHz) |
| Highest Frequency | 1 910 MHz |
| Tested Frequency Range | 1 GHz to 18 GHz |
| Test Site | 3 m Semi Anechoic Chamber #2 |
| Temperature | min. 19.2 / max. 21.2 °C |
| Relative Humidity | min. 34.7 / max. 41.1 % |
| Test Date | December 20, 2021 |

- Calculation Formula:**
1. POL. H = Horizontal, POL. V = Vertical
 2. QuasiPeak = Reading (Receiver Reading) + Corr.
 3. Corr. (Correction Factor) = Antenna Factor + Cable Loss
 4. Margin = Limit - QuasiPeak

4.3.3 Measuring Data

[EUT] CDMA BC0+LTE Band 5 (LOW_ch2400)_RX Receiving

| Frequency (MHz) | Peak (dBμV/m) | CAverage (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) |
|-----------------|---------------|-------------------|----------------|-------------|---------------------|------------|---------------|------------|
| 1638.6750 | --- | 14.83 | 54.00 | 39.17 | 100.0 | H | 60.0 | -20.6 |
| 1657.0750 | 27.67 | --- | 74.00 | 46.33 | 200.1 | V | 40.0 | -20.6 |
| 3564.1950 | 32.70 | --- | 74.00 | 41.30 | 200.1 | V | 18.0 | -16.2 |
| 3619.2350 | --- | 20.60 | 54.00 | 33.40 | 200.0 | V | 25.0 | -16.0 |
| 6350.8550 | 44.17 | --- | 74.00 | 29.83 | 100.0 | V | 12.0 | -6.1 |
| 6426.0200 | --- | 30.98 | 54.00 | 23.02 | 199.9 | H | 207.0 | -5.8 |
| 11323.3150 | 47.48 | --- | 74.00 | 26.52 | 100.0 | H | 191.0 | 2.8 |
| 11413.0250 | --- | 35.22 | 54.00 | 18.78 | 100.0 | V | 271.0 | 3.0 |
| 14344.8050 | 51.82 | --- | 74.00 | 22.18 | 100.0 | V | 350.0 | 7.0 |
| 14478.1200 | --- | 38.68 | 54.00 | 15.32 | 200.0 | V | 36.0 | 7.1 |
| 17974.3800 | 57.03 | --- | 74.00 | 16.97 | 200.0 | H | 85.0 | 13.1 |
| 17984.4012 | --- | 44.01 | 54.00 | 9.99 | 200.0 | V | 24.0 | 13.2 |

[EUT] CDMA BC0+LTE Band 5 Middle_ch2525)_RX Receiving

| Frequency (MHz) | Peak (dBμV/m) | CAverage (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) |
|-----------------|---------------|-------------------|----------------|-------------|---------------------|------------|---------------|------------|
| 1051.6600 | 27.25 | --- | 74.00 | 46.75 | 199.9 | V | 74.0 | -21.9 |
| 1053.5300 | --- | 13.89 | 54.00 | 40.11 | 199.9 | H | 272.0 | -21.9 |
| 1545.9350 | 28.03 | --- | 74.00 | 45.97 | 100.0 | V | 237.0 | -20.8 |
| 1551.7950 | --- | 15.09 | 54.00 | 38.91 | 100.0 | V | 333.0 | -20.7 |
| 3443.4400 | 33.14 | --- | 74.00 | 40.86 | 100.0 | V | 285.0 | -16.4 |
| 3614.0050 | --- | 20.80 | 54.00 | 33.20 | 100.0 | V | 54.0 | -16.1 |
| 7931.8800 | 45.93 | --- | 74.00 | 28.07 | 100.0 | V | 195.0 | -2.8 |
| 7991.8900 | --- | 33.44 | 54.00 | 20.56 | 100.0 | V | 54.0 | -2.7 |
| 14224.6350 | 51.89 | --- | 74.00 | 22.11 | 100.0 | H | 58.0 | 6.9 |
| 14796.2250 | --- | 39.33 | 54.00 | 14.67 | 200.0 | V | 132.0 | 6.9 |
| 17988.2250 | 56.30 | --- | 74.00 | 17.70 | 100.0 | H | 38.0 | 13.2 |
| 17992.4461 | --- | 43.34 | 54.00 | 10.66 | 100.0 | V | 23.0 | 13.3 |

[EUT] CDMA BC0+LTE Band 5 (High_ch2646)_RX Receiving

| Frequency (MHz) | Peak (dBμV/m) | CAverage (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) |
|-----------------|---------------|-------------------|----------------|-------------|---------------------|------------|---------------|------------|
| 6389.6300 | --- | 31.04 | 54.00 | 22.96 | 199.9 | H | 54.0 | -6.0 |
| 6433.6400 | 43.66 | --- | 74.00 | 30.34 | 100.0 | V | 214.0 | -5.8 |
| 7621.7150 | --- | 31.95 | 54.00 | 22.05 | 100.0 | V | -25.0 | -2.7 |
| 7800.8150 | 45.15 | --- | 74.00 | 28.85 | 200.1 | H | 210.0 | -2.7 |
| 9449.5150 | --- | 31.15 | 54.00 | 22.85 | 200.1 | V | 27.0 | -2.2 |
| 9663.7900 | 44.71 | --- | 74.00 | 29.29 | 100.0 | V | 148.0 | -1.7 |
| 11619.4600 | 47.83 | --- | 74.00 | 26.17 | 200.1 | H | 278.0 | 3.1 |
| 11684.9950 | --- | 34.58 | 54.00 | 19.42 | 199.9 | H | 274.0 | 3.1 |
| 14004.1350 | --- | 38.67 | 54.00 | 15.33 | 100.0 | H | 254.0 | 6.8 |
| 14090.1750 | 51.39 | --- | 74.00 | 22.61 | 199.8 | V | 25.0 | 6.8 |
| 17918.7600 | 56.37 | --- | 74.00 | 17.63 | 100.0 | V | 203.0 | 12.6 |
| 17994.1305 | --- | 44.14 | 54.00 | 9.86 | 100.0 | V | 256.0 | 13.3 |

[EUT] LTE Band 13 (LOW_ch5180)_RX Receiving

| Frequency (MHz) | Peak (dBμV/m) | CAverage (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) |
|-----------------|---------------|-------------------|----------------|-------------|---------------------|------------|---------------|------------|
| 6225.4500 | 42.98 | --- | 74.00 | 31.02 | 100.0 | H | 188.0 | -6.6 |
| 6402.0450 | --- | 30.90 | 54.00 | 23.10 | 100.0 | H | 50.0 | -5.9 |
| 7618.9300 | --- | 31.87 | 54.00 | 22.13 | 100.0 | H | 79.0 | -2.7 |
| 7658.9850 | 44.53 | --- | 74.00 | 29.47 | 100.0 | H | 125.0 | -2.7 |
| 9585.4500 | 45.55 | --- | 74.00 | 28.45 | 100.0 | V | 217.0 | -1.9 |
| 9639.6350 | --- | 31.95 | 54.00 | 22.05 | 100.0 | H | 207.0 | -1.8 |
| 11502.9750 | --- | 34.44 | 54.00 | 19.56 | 200.0 | V | 326.0 | 3.1 |
| 11705.2300 | 47.53 | --- | 74.00 | 26.48 | 199.8 | V | 152.0 | 3.1 |
| 14147.6300 | 52.09 | --- | 74.00 | 21.91 | 199.8 | V | 1.0 | 6.9 |
| 14479.8150 | --- | 38.91 | 54.00 | 15.09 | 200.0 | H | 25.0 | 7.1 |
| 17968.8149 | --- | 43.82 | 54.00 | 10.18 | 200.0 | H | -9.0 | 13.0 |
| 17998.8500 | 57.20 | --- | 74.00 | 16.80 | 100.0 | H | 255.0 | 13.3 |

[EUT] LTE Band 13 (LOW_ch5230)_RX Receiving

| Frequency (MHz) | Peak (dBμV/m) | CAverage (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) |
|-----------------|---------------|-------------------|----------------|-------------|---------------------|------------|---------------|------------|
| 6379.9050 | --- | 30.98 | 54.00 | 23.02 | 200.0 | H | 293.0 | -6.0 |
| 7608.9400 | --- | 31.76 | 54.00 | 22.24 | 200.0 | V | 331.0 | -2.7 |
| 7679.9500 | 44.43 | --- | 74.00 | 29.57 | 100.0 | V | 103.0 | -2.7 |
| 9604.3300 | 44.66 | --- | 74.00 | 29.34 | 100.0 | V | 327.0 | -1.9 |
| 9624.0750 | --- | 31.72 | 54.00 | 22.28 | 200.0 | V | 242.0 | -1.8 |
| 11563.7300 | --- | 34.96 | 54.00 | 19.04 | 200.0 | H | 204.0 | 3.2 |
| 11601.3400 | 48.19 | --- | 74.00 | 25.81 | 199.9 | H | 210.0 | 3.1 |
| 14381.8700 | --- | 38.95 | 54.00 | 15.05 | 100.0 | H | 254.0 | 7.0 |
| 14405.0050 | 52.14 | --- | 74.00 | 21.86 | 200.0 | V | 236.0 | 7.0 |
| 14823.2700 | 50.73 | --- | 74.00 | 23.27 | 100.0 | H | 249.0 | 6.9 |
| 17980.8805 | --- | 43.75 | 54.00 | 10.25 | 200.0 | H | 105.0 | 13.1 |
| 17991.6616 | 57.19 | --- | 74.00 | 16.81 | 199.9 | H | 286.0 | 13.2 |

[EUT] LTE Band 13 (LOW_ch5279)_RX Receiving

| Frequency (MHz) | Peak (dBμV/m) | CAverage (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) |
|-----------------|---------------|-------------------|----------------|-------------|---------------------|------------|---------------|------------|
| 6375.2800 | --- | 31.06 | 54.00 | 22.94 | 199.9 | V | 273.0 | -6.0 |
| 6384.2350 | 43.38 | --- | 74.00 | 30.62 | 100.0 | H | 25.0 | -6.0 |
| 7769.2900 | --- | 31.97 | 54.00 | 22.03 | 199.9 | V | 260.0 | -2.7 |
| 7862.6350 | 44.96 | --- | 74.00 | 29.04 | 100.0 | H | 148.0 | -2.8 |
| 9234.0750 | --- | 31.08 | 54.00 | 22.92 | 100.0 | V | 114.0 | -2.4 |
| 9693.9100 | 44.72 | --- | 74.00 | 29.28 | 100.0 | H | 212.0 | -1.6 |
| 11517.4050 | --- | 34.62 | 54.00 | 19.38 | 100.0 | H | 233.0 | 3.2 |
| 11875.4950 | 48.01 | --- | 74.00 | 25.99 | 100.0 | H | -16.0 | 3.0 |
| 14187.0200 | 52.01 | --- | 74.00 | 21.99 | 100.0 | V | 293.0 | 6.9 |
| 14492.3600 | --- | 39.28 | 54.00 | 14.72 | 199.9 | V | 119.0 | 7.1 |
| 17957.5723 | 56.95 | --- | 74.00 | 17.05 | 200.1 | H | 25.0 | 12.9 |
| 17989.8598 | --- | 43.87 | 54.00 | 10.13 | 100.0 | V | 29.0 | 13.2 |

[EUT] IDLE+ GPS

| Frequency (MHz) | Peak (dBμV/m) | CAverage (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) |
|-----------------|---------------|-------------------|----------------|-------------|---------------------|------------|---------------|------------|
| 6257.4500 | 43.28 | --- | 74.00 | 30.72 | 200.0 | H | 39.0 | -6.5 |
| 6429.5750 | --- | 30.90 | 54.00 | 23.10 | 200.0 | H | 285.0 | -5.8 |
| 7604.9150 | 44.69 | --- | 74.00 | 29.31 | 100.0 | V | 123.0 | -2.7 |
| 7796.7350 | --- | 31.91 | 54.00 | 22.09 | 199.9 | V | 229.0 | -2.7 |
| 9422.4600 | --- | 31.34 | 54.00 | 22.66 | 199.9 | V | 0.0 | -2.2 |
| 9660.9900 | 44.92 | --- | 74.00 | 29.08 | 200.0 | V | 129.0 | -1.7 |
| 11672.0850 | 47.21 | --- | 74.00 | 26.79 | 100.0 | H | 333.0 | 3.1 |
| 11738.1550 | --- | 35.36 | 54.00 | 18.64 | 100.0 | V | 149.0 | 3.1 |
| 14460.7050 | 51.33 | --- | 74.00 | 22.67 | 200.0 | V | 139.0 | 7.0 |
| 14583.4250 | --- | 39.11 | 54.00 | 14.89 | 199.9 | V | 214.0 | 7.0 |
| 17976.3450 | 56.32 | --- | 74.00 | 17.68 | 200.0 | H | -25.0 | 13.1 |
| 17997.8725 | --- | 44.14 | 54.00 | 9.86 | 200.0 | H | 105.0 | 13.3 |

[EUT+TA] Charging+CDMA BC0+LTE Band 5 (LOW_ch2400)_RX Receiving

| Frequency (MHz) | Peak (dBμV/m) | CAverage (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) |
|-----------------|---------------|-------------------|----------------|-------------|---------------------|------------|---------------|------------|
| 6402.4850 | --- | 31.72 | 54.00 | 22.28 | 99.8 | V | 200.0 | -5.9 |
| 6403.7400 | 43.74 | --- | 74.00 | 30.26 | 99.7 | V | 25.0 | -5.9 |
| 7638.3350 | --- | 32.47 | 54.00 | 21.53 | 199.9 | H | 193.0 | -2.7 |
| 7778.6150 | 45.03 | --- | 74.00 | 28.97 | 99.7 | V | 294.0 | -2.7 |
| 9332.1600 | 44.44 | --- | 74.00 | 29.56 | 99.7 | V | 191.0 | -2.3 |
| 9522.3250 | --- | 32.07 | 54.00 | 21.93 | 99.7 | H | -23.0 | -2.1 |
| 11558.1850 | --- | 34.96 | 54.00 | 19.04 | 99.7 | H | 218.0 | 3.2 |
| 11706.7650 | 46.97 | --- | 74.00 | 27.03 | 199.8 | H | 42.0 | 3.1 |
| 14039.7450 | 51.52 | --- | 74.00 | 22.48 | 99.9 | H | 263.0 | 6.8 |
| 14116.0500 | --- | 38.40 | 54.00 | 15.60 | 99.8 | V | 9.0 | 6.9 |
| 17912.0400 | 56.66 | --- | 74.00 | 17.34 | 199.8 | H | 241.0 | 12.6 |
| 17994.9886 | --- | 44.47 | 54.00 | 9.53 | 200.0 | V | 291.0 | 13.3 |



[EUT+TA] Charging+CDMA BC0+LTE Band 5 Mlddle_ch2525)_RX Receiving

| Frequency (MHz) | Peak (dBμV/m) | CAverage (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) |
|-----------------|---------------|-------------------|----------------|-------------|---------------------|------------|---------------|------------|
| 6373.6650 | --- | 31.25 | 54.00 | 22.75 | 200.0 | H | 52.0 | -6.0 |
| 6387.0300 | 44.27 | --- | 74.00 | 29.73 | 200.0 | V | 78.0 | -6.0 |
| 7623.2700 | 44.80 | --- | 74.00 | 29.20 | 200.0 | V | 344.0 | -2.7 |
| 7685.8200 | --- | 31.67 | 54.00 | 22.33 | 199.8 | V | 165.0 | -2.7 |
| 9631.3650 | 45.63 | --- | 74.00 | 28.37 | 199.8 | H | 276.0 | -1.8 |
| 9648.7700 | --- | 32.07 | 54.00 | 21.93 | 200.0 | H | 45.0 | -1.8 |
| 11348.2000 | --- | 34.82 | 54.00 | 19.18 | 99.8 | V | 134.0 | 3.0 |
| 11747.9550 | 47.79 | --- | 74.00 | 26.21 | 99.8 | V | 66.0 | 3.2 |
| 14245.5200 | 51.36 | --- | 74.00 | 22.64 | 200.0 | V | 25.0 | 6.9 |
| 14565.7050 | --- | 39.23 | 54.00 | 14.77 | 199.8 | V | 5.0 | 7.0 |
| 17974.6650 | 56.53 | --- | 74.00 | 17.47 | 99.8 | V | 51.0 | 13.1 |
| 17999.2975 | --- | 44.34 | 54.00 | 9.66 | 200.0 | H | -18.0 | 13.3 |

[EUT+TA] Charging+CDMA BC0+LTE Band 5 (High_ch2646)_RX Receiving

| Frequency (MHz) | Peak (dBμV/m) | CAverage (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) |
|-----------------|---------------|-------------------|----------------|-------------|---------------------|------------|---------------|------------|
| 6353.7650 | --- | 31.38 | 54.00 | 22.62 | 99.9 | H | -25.0 | -6.1 |
| 6384.0750 | 43.90 | --- | 74.00 | 30.10 | 99.9 | H | 132.0 | -6.0 |
| 7609.8000 | --- | 31.94 | 54.00 | 22.06 | 99.9 | H | 246.0 | -2.7 |
| 7644.5450 | 44.46 | --- | 74.00 | 29.54 | 199.8 | H | 299.0 | -2.8 |
| 9278.0200 | 44.36 | --- | 74.00 | 29.64 | 199.8 | H | -8.0 | -2.4 |
| 9628.2100 | --- | 31.85 | 54.00 | 22.15 | 99.9 | H | 10.0 | -1.8 |
| 11572.5950 | 48.22 | --- | 74.00 | 25.78 | 99.9 | V | 252.0 | 3.2 |
| 11728.0100 | --- | 35.30 | 54.00 | 18.70 | 99.9 | H | 315.0 | 3.1 |
| 14317.7150 | --- | 38.68 | 54.00 | 15.32 | 199.9 | H | 240.0 | 7.0 |
| 14624.9100 | 51.53 | --- | 74.00 | 22.47 | 99.9 | H | 59.0 | 7.0 |
| 17981.2702 | 57.23 | --- | 74.00 | 16.77 | 99.9 | H | 331.0 | 13.1 |
| 17990.1722 | --- | 44.14 | 54.00 | 9.86 | 199.9 | V | 64.0 | 13.2 |

[EUT+TA] Charging+LTE Band 13 (LOW_ch5180)_RX Receiving

| Frequency (MHz) | Peak (dBμV/m) | CAverage (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) |
|-----------------|---------------|-------------------|----------------|-------------|---------------------|------------|---------------|------------|
| 6400.1750 | --- | 30.93 | 54.00 | 23.07 | 199.8 | H | 26.0 | -5.9 |
| 7754.4950 | 44.91 | --- | 74.00 | 29.09 | 99.9 | V | 134.0 | -2.7 |
| 7804.0900 | --- | 32.02 | 54.00 | 21.98 | 199.8 | H | 39.0 | -2.7 |
| 9606.4250 | 44.94 | --- | 74.00 | 29.06 | 99.8 | H | 77.0 | -1.9 |
| 9697.4100 | --- | 32.40 | 54.00 | 21.60 | 99.9 | H | 286.0 | -1.6 |
| 11561.3700 | --- | 35.44 | 54.00 | 18.56 | 99.9 | H | 340.0 | 3.2 |
| 11639.7950 | 47.75 | --- | 74.00 | 26.25 | 99.8 | H | 18.0 | 3.1 |
| 14098.4300 | 51.72 | --- | 74.00 | 22.28 | 200.1 | H | 345.0 | 6.9 |
| 14582.1250 | --- | 39.09 | 54.00 | 14.92 | 199.8 | V | 352.0 | 7.0 |
| 14734.5800 | 51.66 | --- | 74.00 | 22.34 | 99.9 | V | 27.0 | 6.9 |
| 17982.2970 | 56.96 | --- | 74.00 | 17.04 | 99.8 | H | 325.0 | 13.1 |
| 17997.2775 | --- | 44.25 | 54.00 | 9.75 | 199.8 | V | 296.0 | 13.3 |

[EUT+TA] Charging+LTE Band 13 (LOW_ch5230)_RX Receiving

| Frequency (MHz) | Peak (dBμV/m) | CAverage (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) |
|-----------------|---------------|-------------------|----------------|-------------|---------------------|------------|---------------|------------|
| 6396.7550 | --- | 31.90 | 54.00 | 22.10 | 200.0 | H | 319.0 | -5.9 |
| 6423.7500 | 44.36 | --- | 74.00 | 29.64 | 99.7 | H | 189.0 | -5.8 |
| 7538.8700 | --- | 32.56 | 54.00 | 21.44 | 99.9 | V | 314.0 | -2.7 |
| 7721.2850 | 44.65 | --- | 74.00 | 29.35 | 200.0 | H | 303.0 | -2.7 |
| 9571.6450 | 45.42 | --- | 74.00 | 28.58 | 200.0 | V | 190.0 | -1.9 |
| 9657.3950 | --- | 33.12 | 54.00 | 20.88 | 200.0 | H | 51.0 | -1.7 |
| 11454.9000 | --- | 35.96 | 54.00 | 18.04 | 99.9 | V | 327.0 | 3.2 |
| 11766.7850 | 47.85 | --- | 74.00 | 26.15 | 99.7 | H | -3.0 | 3.1 |
| 14134.2450 | 50.93 | --- | 74.00 | 23.07 | 99.7 | H | 101.0 | 6.9 |
| 14596.4550 | --- | 39.68 | 54.00 | 14.32 | 199.8 | V | -10.0 | 7.1 |
| 17972.8382 | 57.74 | --- | 74.00 | 16.26 | 99.8 | V | 314.0 | 13.0 |
| 17985.4200 | --- | 44.90 | 54.00 | 9.10 | 200.0 | H | 47.0 | 13.2 |

[EUT+TA] Charging+LTE Band 13 (LOW_ch5279)_RX Receiving

| Frequency (MHz) | Peak (dBμV/m) | CAverage (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) |
|-----------------|---------------|-------------------|----------------|-------------|---------------------|------------|---------------|------------|
| 6372.8550 | --- | 32.05 | 54.00 | 21.95 | 100.0 | H | 112.0 | -6.0 |
| 7548.8150 | 45.97 | --- | 74.00 | 28.03 | 199.8 | V | 25.0 | -2.7 |
| 7806.3400 | --- | 32.15 | 54.00 | 21.85 | 199.9 | V | 345.0 | -2.7 |
| 8024.3350 | 45.95 | --- | 74.00 | 28.05 | 99.8 | H | 68.0 | -2.7 |
| 9588.8300 | --- | 32.57 | 54.00 | 21.43 | 199.9 | V | 164.0 | -1.9 |
| 11278.3450 | 46.87 | --- | 74.00 | 27.13 | 199.8 | V | 44.0 | 2.7 |
| 11615.4350 | --- | 35.62 | 54.00 | 18.38 | 100.0 | H | 66.0 | 3.1 |
| 14500.0000 | --- | 38.78 | 54.00 | 15.22 | 100.0 | H | -20.0 | 7.1 |
| 14588.4100 | 52.57 | --- | 74.00 | 21.43 | 99.9 | V | 25.0 | 7.0 |
| 14808.1000 | 51.60 | --- | 74.00 | 22.40 | 99.8 | H | 40.0 | 6.9 |
| 17962.5750 | 58.30 | --- | 74.00 | 15.70 | 200.1 | H | 139.0 | 12.9 |
| 17997.2800 | --- | 44.71 | 54.00 | 9.29 | 199.9 | H | 40.0 | 13.3 |

[EUT+TA] Charging+ IDLE+ GPS

| Frequency (MHz) | Peak (dBμV/m) | CAverage (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) |
|-----------------|---------------|-------------------|----------------|-------------|---------------------|------------|---------------|------------|
| 6381.4300 | --- | 31.82 | 54.00 | 22.18 | 199.9 | V | 121.0 | -6.0 |
| 6395.3200 | 44.47 | --- | 74.00 | 29.53 | 200.0 | H | 140.0 | -5.9 |
| 7692.5400 | --- | 31.54 | 54.00 | 22.46 | 199.8 | H | 126.0 | -2.7 |
| 7790.7850 | 44.91 | --- | 74.00 | 29.09 | 200.1 | V | 182.0 | -2.7 |
| 9186.3750 | 45.55 | --- | 74.00 | 28.45 | 200.0 | H | 7.0 | -2.4 |
| 9707.2050 | --- | 32.65 | 54.00 | 21.35 | 100.0 | V | 109.0 | -1.6 |
| 11541.1550 | 47.67 | --- | 74.00 | 26.33 | 100.0 | V | 242.0 | 3.2 |
| 11684.0700 | --- | 34.71 | 54.00 | 19.29 | 199.9 | V | 335.0 | 3.1 |
| 14550.3200 | --- | 39.08 | 54.00 | 14.92 | 100.0 | H | 37.0 | 7.0 |
| 14581.4750 | 52.29 | --- | 74.00 | 21.71 | 200.0 | H | 267.0 | 7.0 |
| 17872.1350 | 55.77 | --- | 74.00 | 18.23 | 100.0 | H | 122.0 | 12.2 |
| 17953.3750 | --- | 44.27 | 54.00 | 9.73 | 100.0 | V | 161.0 | 12.8 |



5. CONCLUSION

The data collected shows that the **Product Name: HomePhone Connect and Model Name: T720C** complies with §15.107 and §15.109 of the FCC rules.



6. APPENDIX A. TEST SETUP PHOTO

Please refer to Appendix. A and test setup photo file no. as follows;

| File No. | Date of Issue | Description |
|---------------------|-------------------|-----------------|
| HCT-EM-2112-FC008-P | December 28, 2021 | Initial Release |

End of report