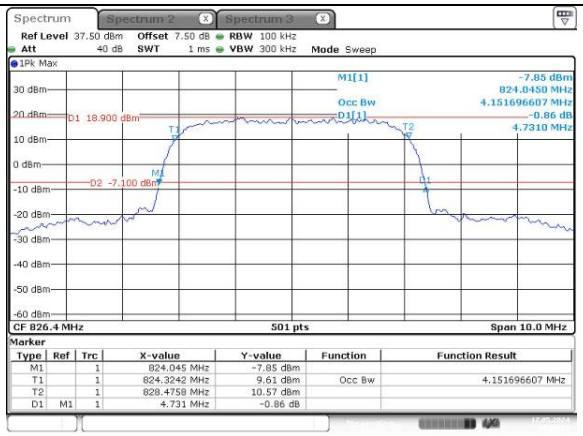
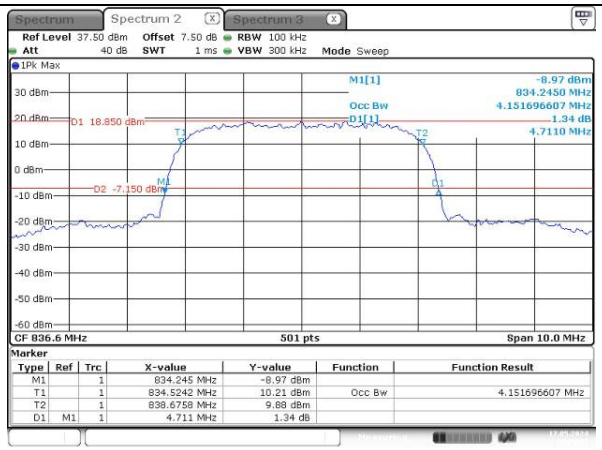
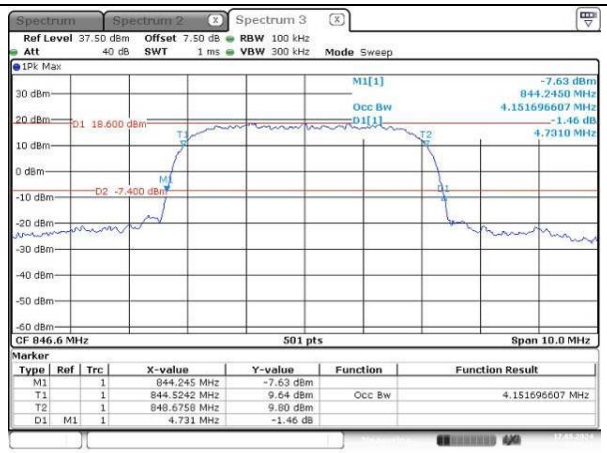
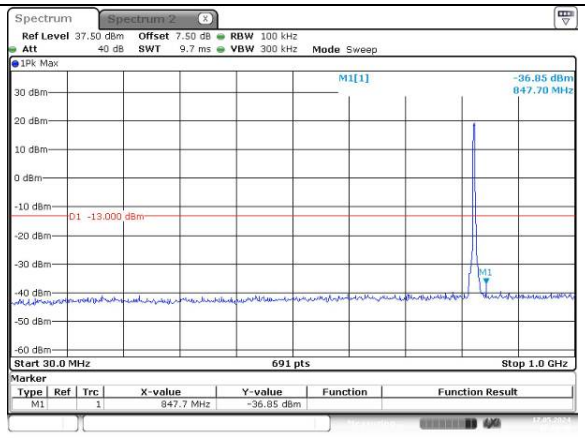
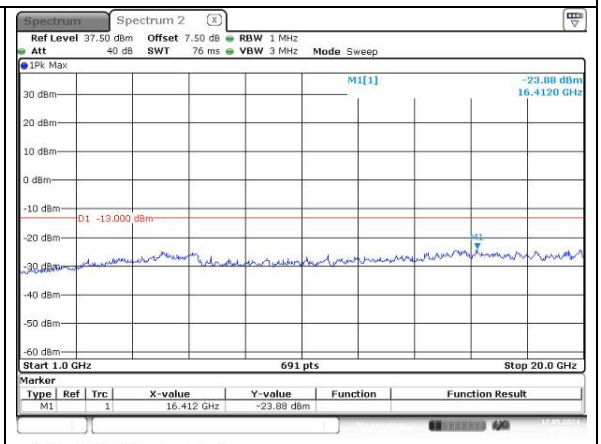
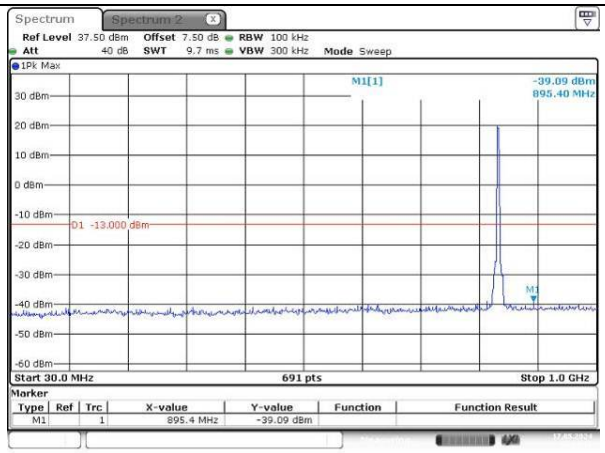
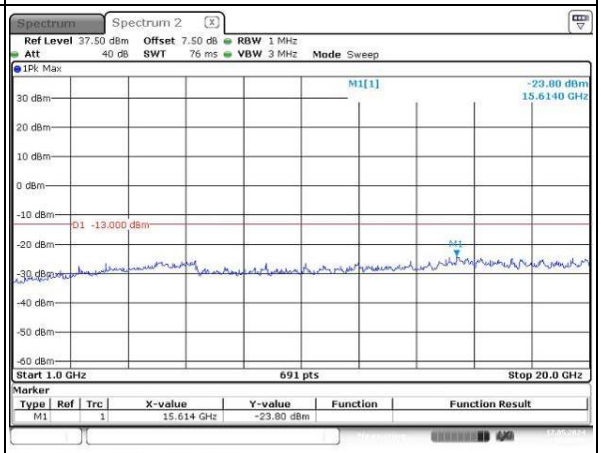
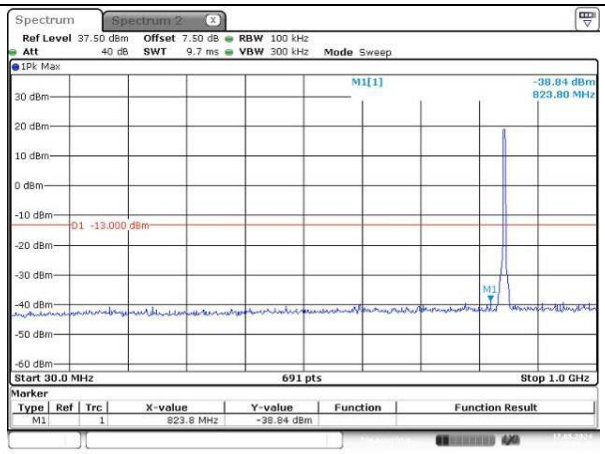
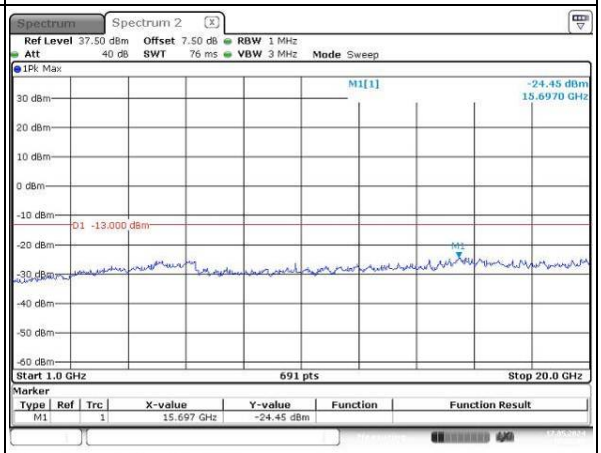
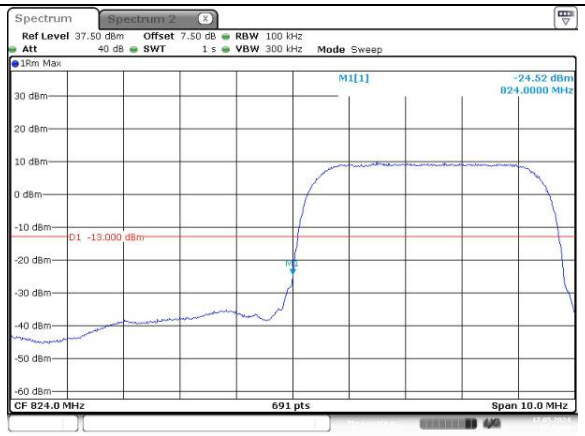
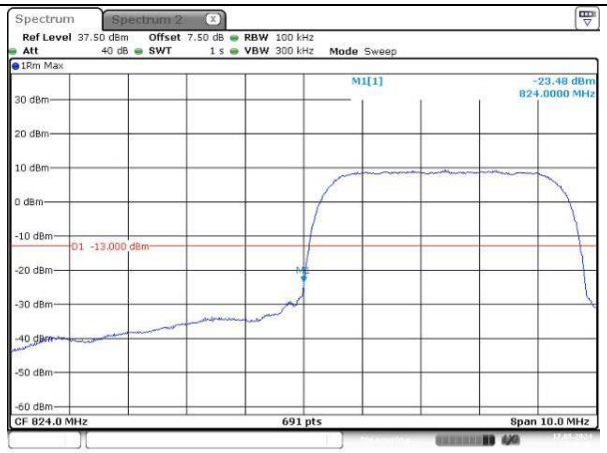
| Occupied Bandwidth | |
|---|---|
| **Channel** | HSUPA |
| Lowest |  |
| Middle |  |
| Highest |  |

| Spurious Emissions at Antenna Terminal | | |
|---|---|---|
| **Channel** | WCDMA R99 | |
| Lowest |  |  |
| Middle |  |  |
| Highest |  |  |

| Out of band emission, Band Edge | | |
|---|---|---|
| **Mode** | **Lowest** | **Highest** |
| R99 |  |  |
| HSUPA |  |  |
| HSDPA |  |  |

## 5.6 Antenna Port Test Data and Results for CDMA BC0:

| | | | |
|---|---|---|---|
| Serial Number: | 2KWI-4 | Test Date: | 2024/10/22 |
| Test Site: | RF | Test Mode: | Transmitting |
| Tester: | Karl Liang | Test Result: | **Pass** |

| **Environmental Conditions:** | | | | | |
|---|---|---|---|---|---|
| Temperature: (℃) | 27.3 | Relative Humidity: (%) | 49 | ATM Pressure: (kPa) | 101.6 |

**Test Equipment List and Details:**

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|---|---|---|---|---|---|
| R&S | Spectrum Analyzer | FSV40 | 101461 | 2024/9/5 | 2025/9/4 |
| Micro-Coax | Coaxial Cable | UFB205A | 323308-015 | 2024/1/2 | 2025/1/1 |
| Minl-Clrcuits | Coaxial Power Splitters & Combiner | ZFRSC-183-S+ | SF448201614 | 2024/2/25 | 2025/2/24 |
| Agilent | Wireless Communication Test Set | E5515C | MY50266471 | 2024/9/5 | 2025/9/4 |
| BACL | TEMP&HUMI Test Chamber | BTH-150-40 | 30173 | 2024/9/6 | 2025/9/5 |
| All-sun | Clamp Meter | EM305A | 8348897 | 2024/8/16 | 2025/8/15 |
| TDK-Lambda | DC Power Supply | Z+60-14 | F-08-EM038-1 | N/A | N/A |

** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

**Test Frequency For Each Mode:**

| Operation Modes | Lowest Frequency (MHz) | Middle Frequency (MHz) | Highest Frequency (MHz) |
|---|---|---|---|
| 1xRTT | 824.7 | 836.52 | 848.31 |
| EV-DO | 824.7 | 836.52 | 848.31 |

**Test Data:**

**FCC§2.1046;§ 22.913 (a):RF Output Power**

| Test Mode | Conducted Average Output Power(dBm) | | | Maximum ERP (dBm) | ERP Limit (dBm) |
|---|---|---|---|---|---|
| | Lowest Channel | Middle Channel | Highest Channel | | |
| 1xRTT RC1+SO55 | 23.25 | 23.08 | 23.16 | 18.54 | 38.45 |
| 1xRTT RC3+SO55 | 22.59 | 22.55 | 22.92 | 18.21 | 38.45 |
| 1xRTT RC3+SO32(FCH) | 22.39 | 22.13 | 22.67 | 17.96 | 38.45 |
| 1xRTT RC3+SO32(SCH) | 21.31 | 21.47 | 21.55 | 16.84 | 38.45 |
| EV-DO RTAP 153.6kbps Subtype 0 | 20.58 | 20.63 | 20.92 | 16.21 | 38.45 |
| EV-DO RETAP 4096bps Subtype 2 | 20.28 | 20.51 | 20.38 | 15.8 | 38.45 |

Note:
ERP= Conducted Power(dBm) - $L_C$(dB) + $G_T$(dBd)
$G_T$(dBd)=$G_T$(dBi)-2.15

| **Result:** | **Pass** |
|---|---|

**Peak-to-average Ratio(PAR)**

| Test Mode | Peak-to-average Ratio(dB) | | | Limit (dB) |
|---|---|---|---|---|
| | Lowest Channel | Middle Channel | Highest Channel | |
| 1xRTT | 4.75 | 4.87 | 3.88 | 13 |
| EV-DO | 4.64 | 4.99 | 4 | 13 |

| **Result:** | **Pass** |
|---|---|

**FCC §2.1049, §22.917, §22.905:Occupied Bandwidth**

| Operation Mode | 99% Occupied Bandwidth (MHz) | | | 26 dB Occupied Bandwidth (MHz) | | |
|---|---|---|---|---|---|---|
| | Low Channel | Middle channel | High Channel | Low Channel | Middle Channel | High Channel |
| 1xRTT | 1.277 | 1.277 | 1.277 | 1.866 | 1.847 | 2.267 |
| EV-DO | 1.277 | 1.277 | 1.277 | 1.816 | 1.933 | 1.893 |

Note: The test plots please refer to the Plots of Occupied Bandwidth

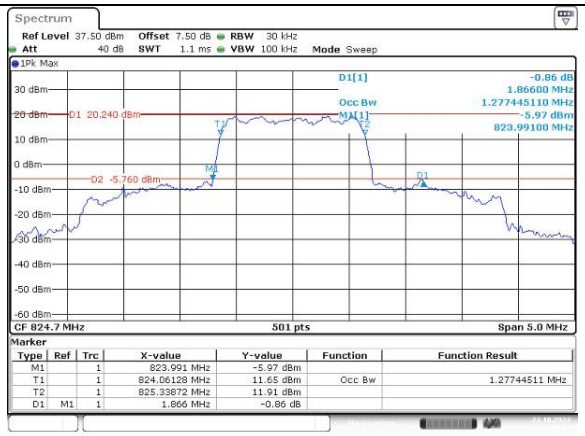
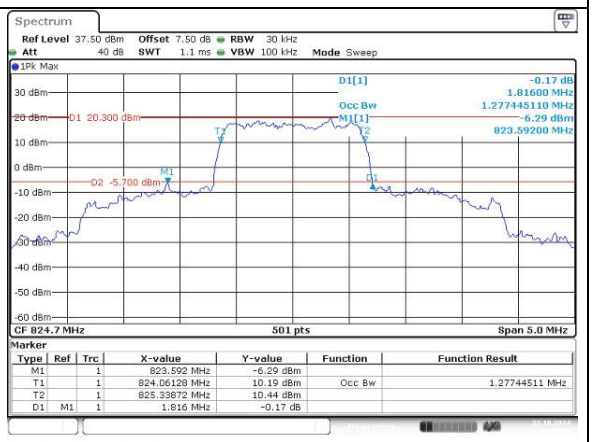
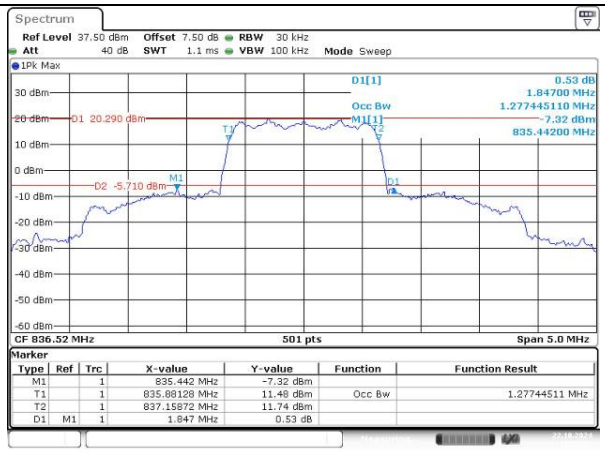
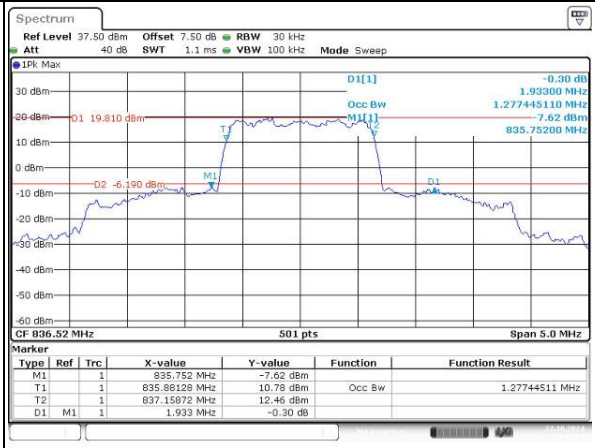
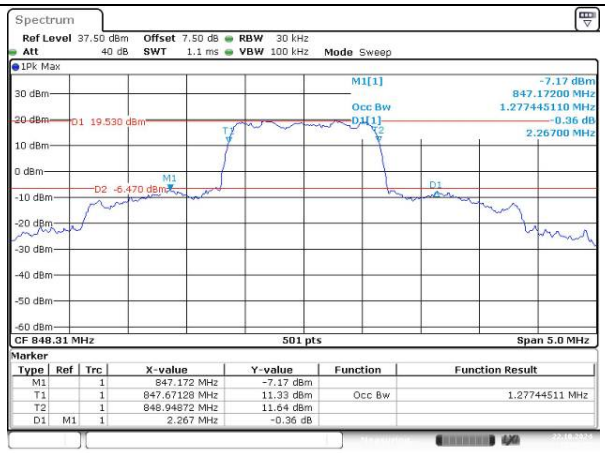
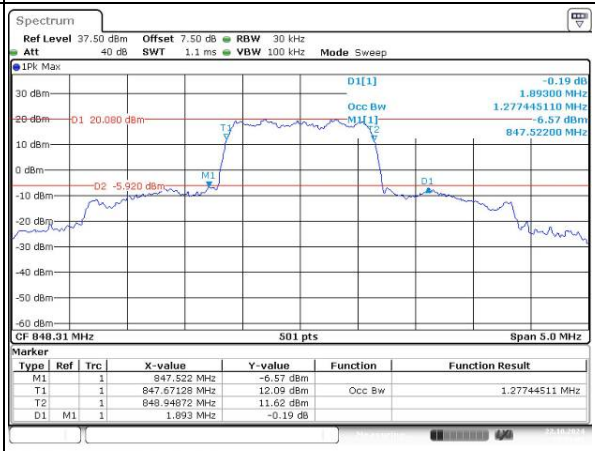
| **FCC §2.1051, §22.917(a):Spurious Emissions at Antenna Terminal** | |
|---|---|
| **Result:** | **Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.** |

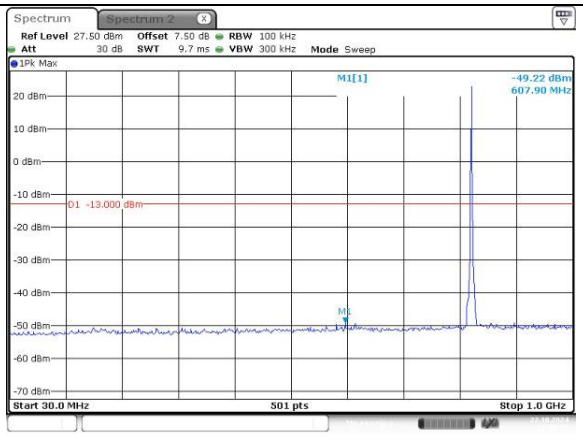
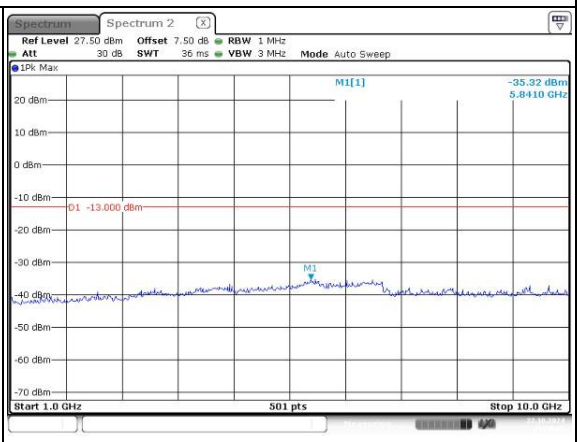
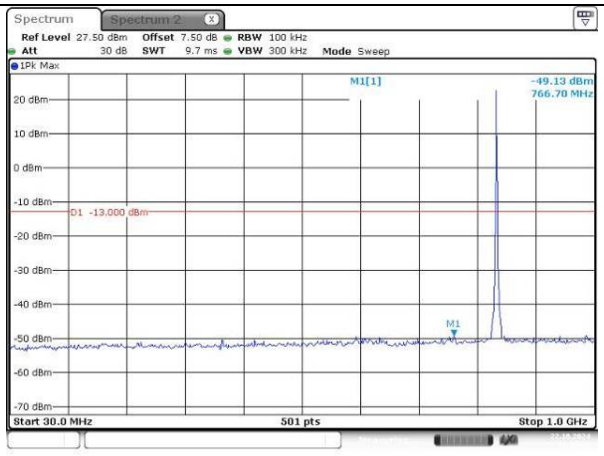
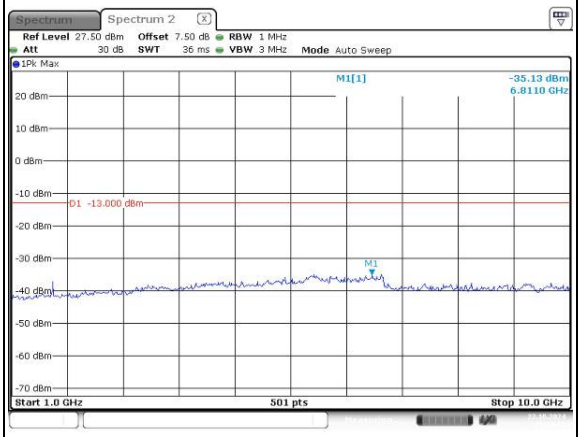
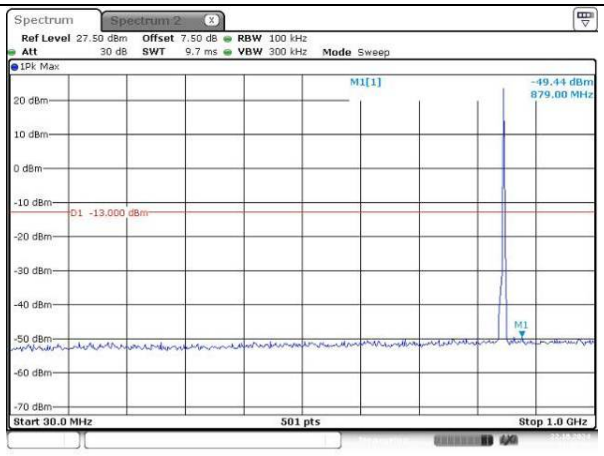
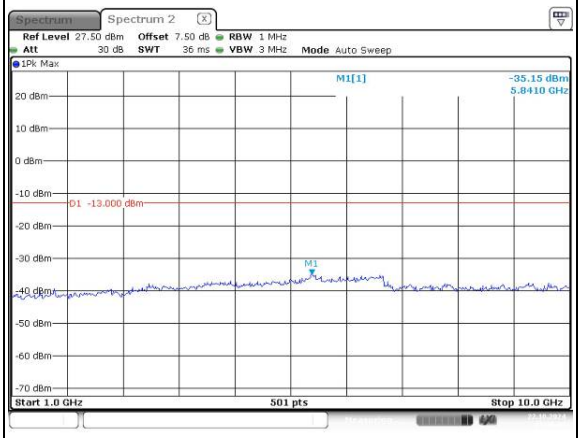
| **FCC §2.1051, §22.917(a):Out of band emission, Band Edge** | |
|---|---|
| **Result:** | **Pass, Please refer to the test plots of Out of band emission, Band Edge.** |

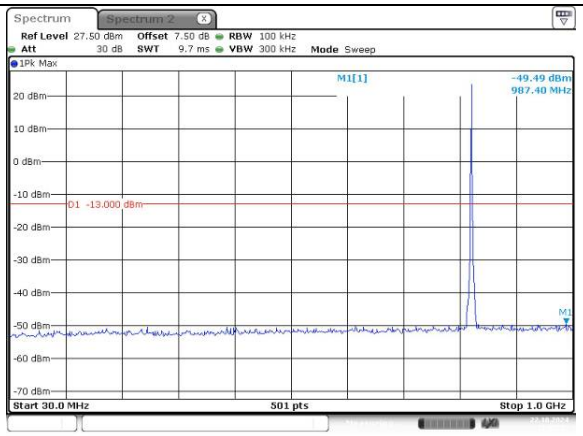
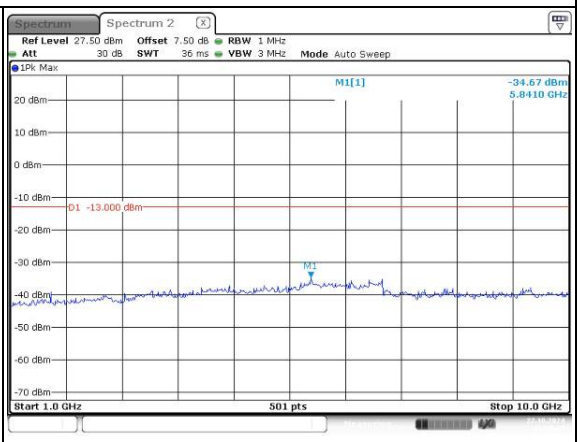
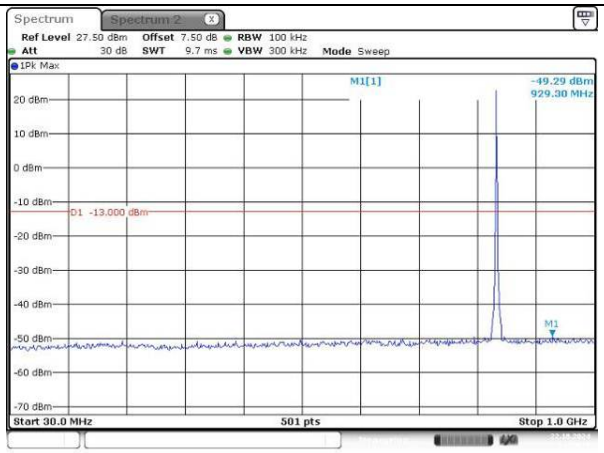
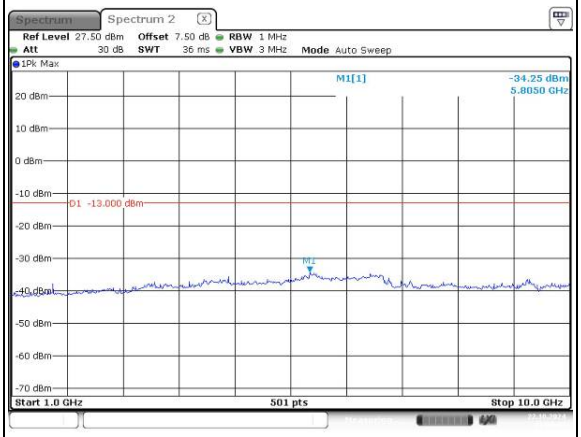
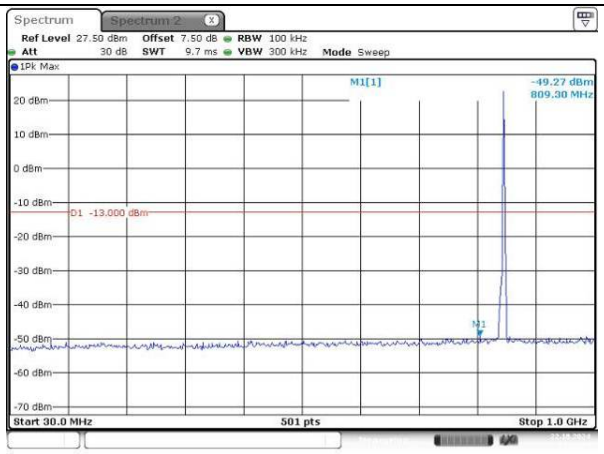
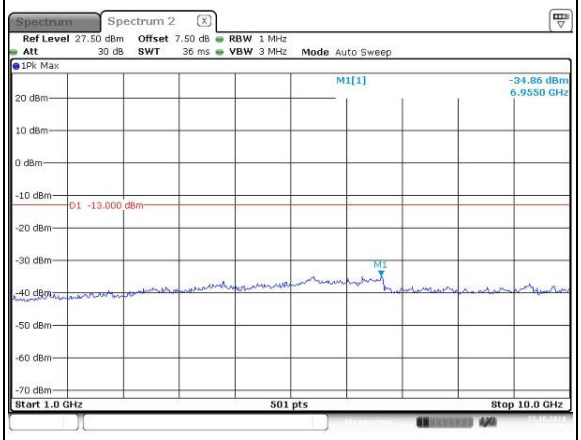
| FCC §2.1055, §22.355: Frequency Stability | | | | | |
|---|---|---|---|---|---|
| Test Modulation: | 1xRTT | | Test Channel: | 836.52 MHz | |
| Test Item | Temperature (℃) | Voltage (VDC) | Frequency Error | | Limit |
| | | | (Hz) | (ppm) | (ppm) |
| Frequency Stability vs. Temperature | -30 | 3.8 | -8.06 | -0.0096 | 2.5 |
| | -20 | 3.8 | -0.13 | -0.0002 | 2.5 |
| | -10 | 3.8 | -5.05 | -0.0060 | 2.5 |
| | 0 | 3.8 | 0.26 | 0.0003 | 2.5 |
| | 10 | 3.8 | 1.48 | 0.0018 | 2.5 |
| | 20 | 3.8 | -0.56 | -0.0007 | 2.5 |
| | 30 | 3.8 | -8.08 | -0.0097 | 2.5 |
| | 40 | 3.8 | 5.69 | 0.0068 | 2.5 |
| | 50 | 3.8 | -9.98 | -0.0119 | 2.5 |
| Frequency Stability vs. Voltage | 20 | 3.5 | 8.97 | 0.0107 | 2.5 |
| | 20 | 4.35 | 3.19 | 0.0038 | 2.5 |
| | | | | **Result:** | **Pass** |

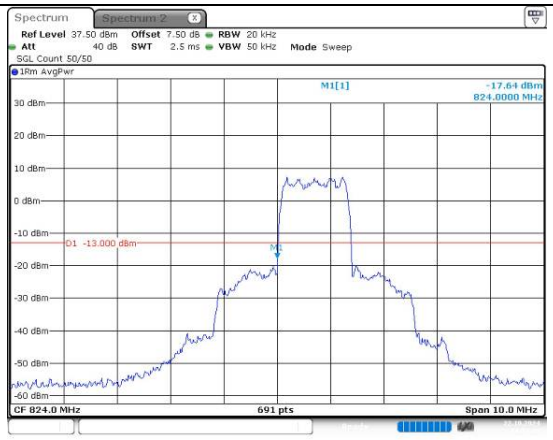
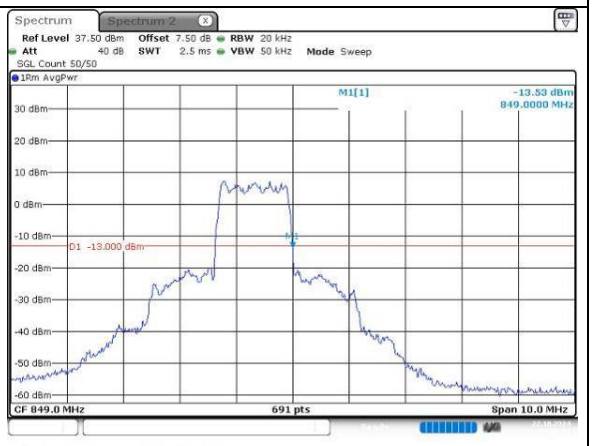
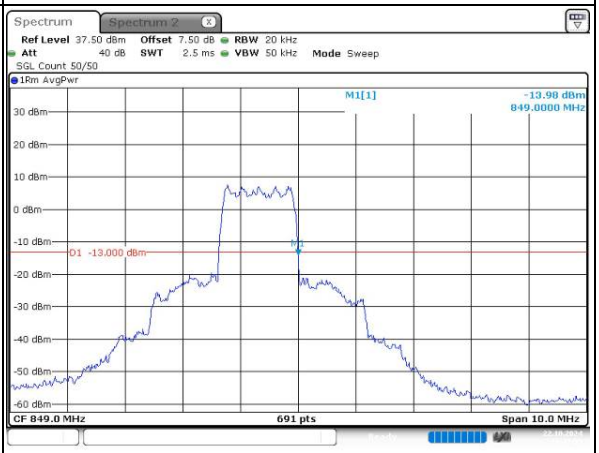
| Test Modulation: | EV-DO | | Test Channel: | 836.52 MHz | |
|---|---|---|---|---|---|
| Test Item | Temperature (℃) | Voltage (VDC) | Frequency Error | | Limit |
| | | | (Hz) | (ppm) | (ppm) |
| Frequency Stability vs. Temperature | -30 | 3.8 | 4.78 | 0.0057 | 2.5 |
| | -20 | 3.8 | -8.85 | -0.0106 | 2.5 |
| | -10 | 3.8 | 8.51 | 0.0102 | 2.5 |
| | 0 | 3.8 | -6.02 | -0.0072 | 2.5 |
| | 10 | 3.8 | 7.98 | 0.0095 | 2.5 |
| | 20 | 3.8 | 1.48 | 0.0018 | 2.5 |
| | 30 | 3.8 | 5.28 | 0.0063 | 2.5 |
| | 40 | 3.8 | -3.04 | -0.0036 | 2.5 |
| | 50 | 3.8 | 1.1 | 0.0013 | 2.5 |
| Frequency Stability vs. Voltage | 20 | 3.5 | 8.65 | 0.0103 | 2.5 |
| | 20 | 4.35 | -0.45 | -0.0005 | 2.5 |
| | | | | **Result:** | **Pass** |

**Test Plots**:

| Occupied Bandwidth | | |
|---|---|---|
| **Channel** | **1XRTT** | **EVDO** |
| Lowest |  |  |
| Middle |  |  |
| Highest |  |  |

| Spurious Emissions at Antenna Terminal | | |
|---|---|---|
| **Channel** | **1xRTT** | |
| Lowest |  |  |
| Middle |  |  |
| Highest |  |  |

| Spurious Emissions at Antenna Terminal | | |
|---|---|---|
| **Channel** | **EVDO** | |
| Lowest |  |  |
| Middle |  |  |
| Highest |  |  |

| Out of band emission, Band Edge | | |
|---|---|---|
| **Mode** | Lowest | Highest |
| **1XRTT** |  |  |
| **EVDO** |  |  |

## 5.7 Antenna Port Test Data and Results for CDMA BC1:

| | | | |
|---|---|---|---|
| Serial Number: | 2KWI-4 | Test Date: | 2024/10/22 |
| Test Site: | RF | Test Mode: | Transmitting |
| Tester: | Karl Liang | Test Result: | **Pass** |

| **Environmental Conditions:** | | | | | |
|---|---|---|---|---|---|
| Temperature: (℃) | 27.3 | Relative Humidity: (%) | 49 | ATM Pressure: (kPa) | 101.6 |

**Test Equipment List and Details:**

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|---|---|---|---|---|---|
| R&S | Spectrum Analyzer | FSV40 | 101461 | 2024/9/5 | 2025/9/4 |
| Micro-Coax | Coaxial Cable | UFB205A | 323308-015 | 2024/1/2 | 2025/1/1 |
| Minl-Clrcuits | Coaxial Power Splitters & Combiner | ZFRSC-183-S+ | SF448201614 | 2024/2/25 | 2025/2/24 |
| Agilent | Wireless Communication Test Set | E5515C | MY50266471 | 2024/9/5 | 2025/9/4 |
| BACL | TEMP&HUMI Test Chamber | BTH-150-40 | 30173 | 2024/9/6 | 2025/9/5 |
| All-sun | Clamp Meter | EM305A | 8348897 | 2024/8/16 | 2025/8/15 |
| TDK-Lambda | DC Power Supply | Z+60-14 | F-08-EM038-1 | N/A | N/A |

** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

**Test Frequency For Each Mode:**

| Operation Modes | Lowest Frequency (MHz) | Middle Frequency (MHz) | Highest Frequency (MHz) |
|---|---|---|---|
| 1xRTT | 1851.25 | 1880 | 1908.75 |
| EV-DO | 1851.25 | 1880 | 1908.75 |

**Test Data:**

| FCC§2.1046;§ 24.232 (c):RF Output Power | | | | | |
|---|---|---|---|---|---|
| Test Mode | Conducted Average Output Power(dBm) | | | Maximum EIRP (dBm) | EIRP Limit (dBm) |
| | Lowest Channel | Middle Channel | Highest Channel | | |
| 1xRTT RC1+SO55 | 23.12 | 23.36 | 23.32 | 24.23 | 33 |
| 1xRTT RC3+SO55 | 22.96 | 22.7 | 22.92 | 23.83 | 33 |
| 1xRTT RC3+SO32(FCH) | 22.58 | 22.12 | 22.35 | 23.45 | 33 |
| 1xRTT RC3+SO32(SCH) | 21.69 | 21.78 | 21.64 | 22.65 | 33 |
| EV-DO RTAP 153.6kbps Subtype 0 | 21.12 | 21.05 | 21.37 | 22.24 | 33 |
| EV-DO RETAP 4096bps Subtype 2 | 20.9 | 20.85 | 20.63 | 21.77 | 33 |
| Note: EIRP=Conducted Power(dBm) - $L_C$(dB) + $G_T$(dBi) | | | | | |
| | | | | **Result:** | **Pass** |

| Peak-to-average Ratio(PAR) | | | | | |
|---|---|---|---|---|---|
| Test Mode | Peak-to-average Ratio(dB) | | | Limit (dB) | |
| | Lowest Channel | Middle Channel | Highest Channel | | |
| 1xRTT | 3.54 | 3.54 | 3.51 | 13 | |
| EV-DO | 3.57 | 3.48 | 3.62 | 13 | |
| | | | | **Result:** | **Pass** |

| FCC §2.1049, §24.238:Occupied Bandwidth | | | | | | |
|---|---|---|---|---|---|---|
| Operation Mode | 99% Occupied Bandwidth (MHz) | | | 26 dB Occupied Bandwidth (MHz) | | |
| | Low Channel | Middle channel | High Channel | Low Channel | Middle Channel | High Channel |
| 1xRTT | 1.275 | 1.275 | 1.275 | 1.443 | 1.443 | 1.443 |
| EV-DO | 1.275 | 1.275 | 1.275 | 1.443 | 1.443 | 1.455 |
| Note: The test plots please refer to the Plots of Occupied Bandwidth | | | | | | |

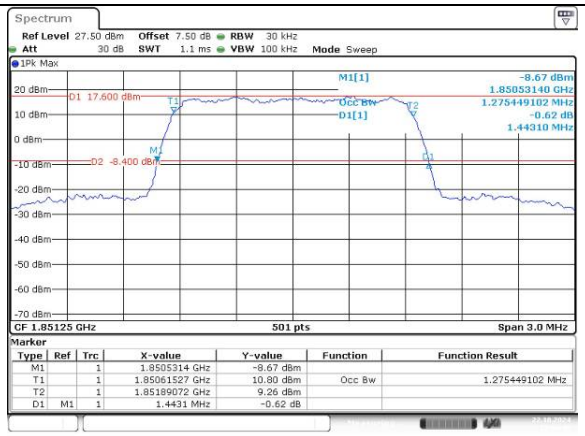
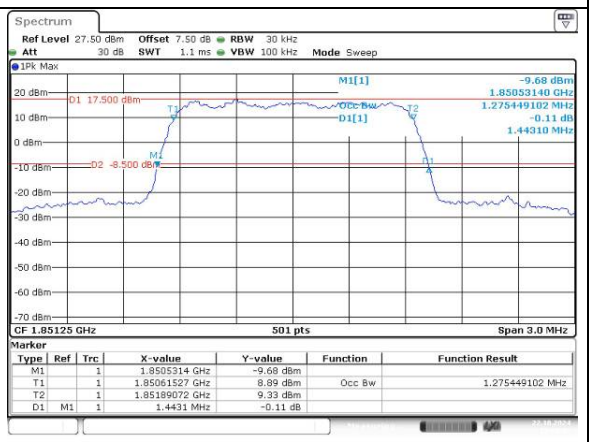
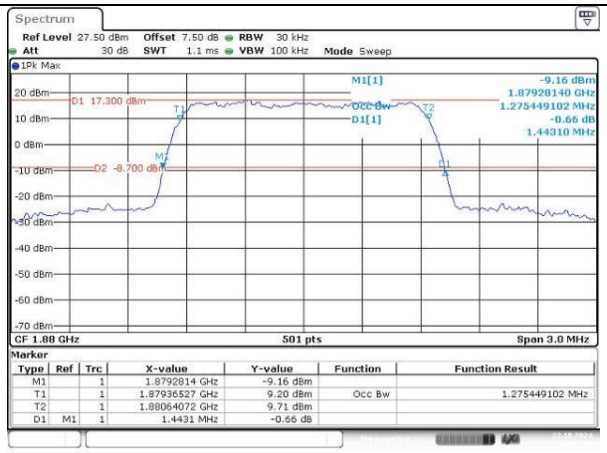
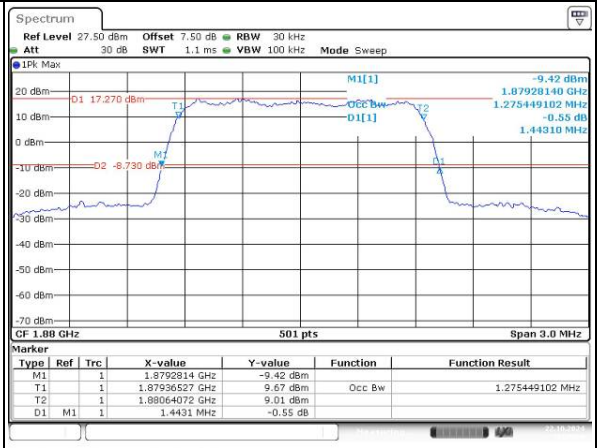
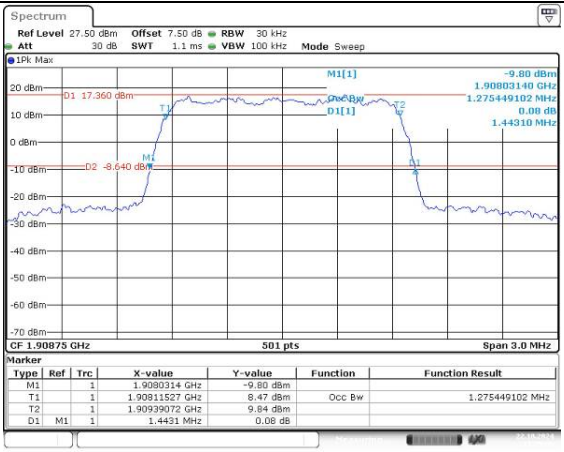
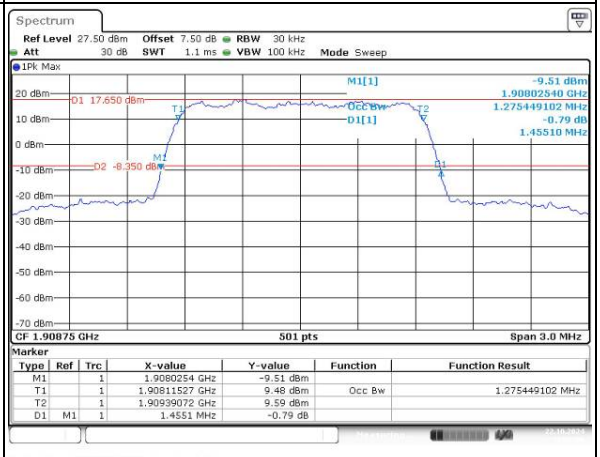
| FCC §2.1051, § 24.238 (a):Spurious Emissions at Antenna Terminal | |
|---|---|
| **Result:** | **Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.** |

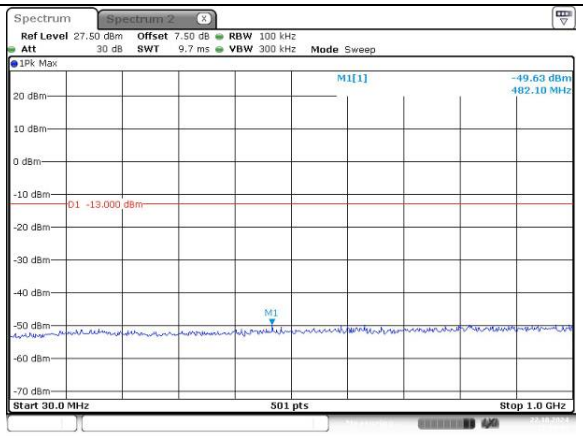
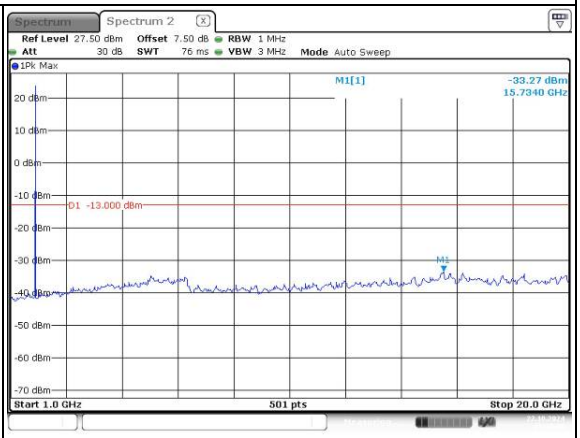
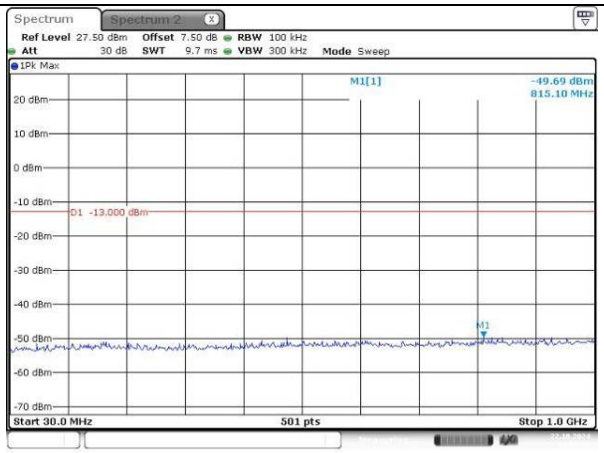
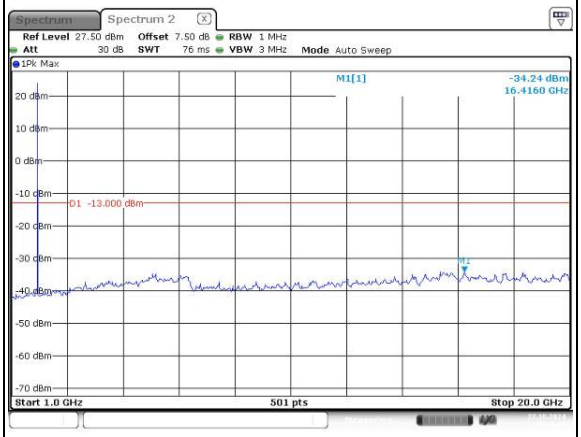
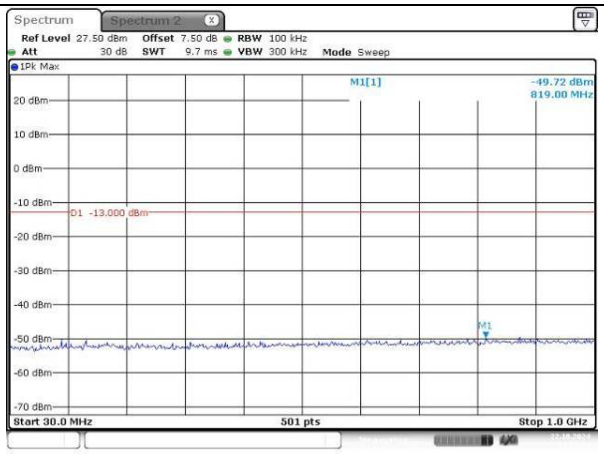
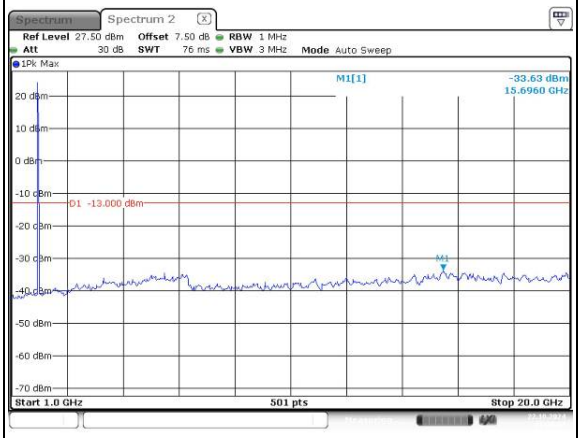
| FCC §2.1051, § 24.238 (a):Out of band emission, Band Edge | |
|---|---|
| **Result:** | **Pass, Please refer to the test plots of Out of band emission, Band Edge.** |

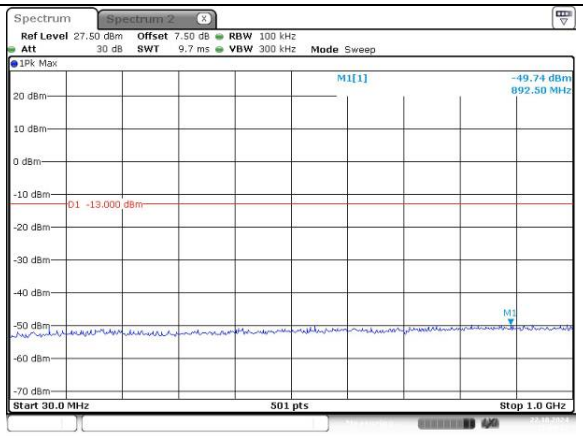
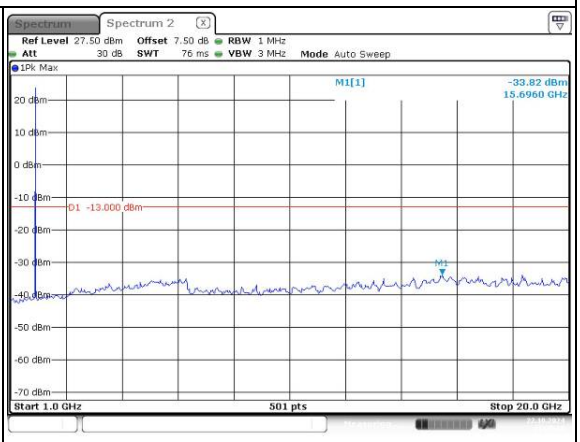
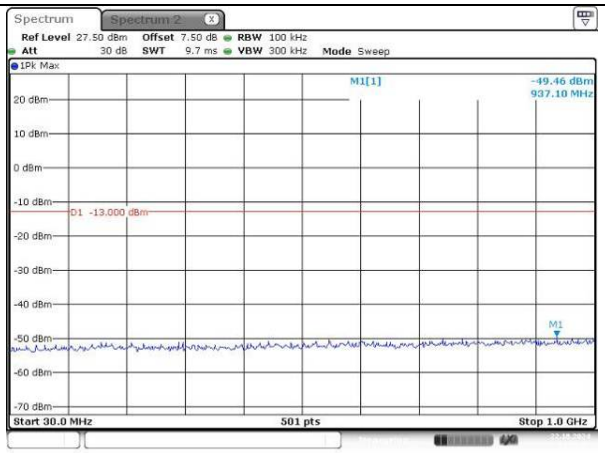
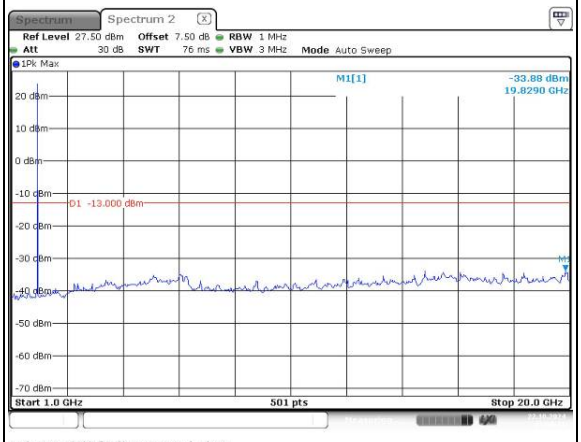
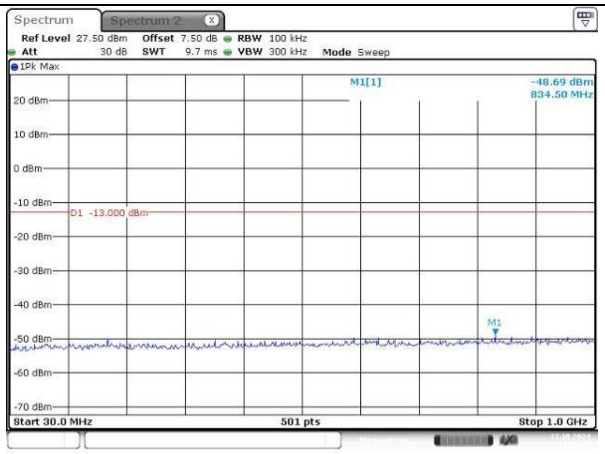
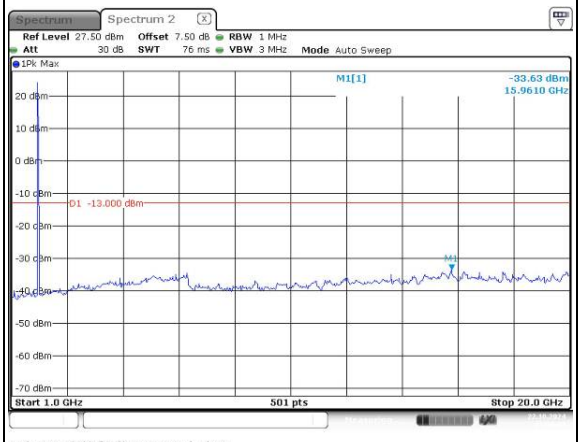
| FCC §2.1055, §24.235: Frequency Stability | | | | | | |
|---|---|---|---|---|---|---|
| Test Mode: | 1xRTT | Test Channel: Lowest for Lower Edge,Highest for Upper Edge | | | | |
| Test Item | Temperature (℃) | Voltage (VDC) | Lower Edge (MHz) | | Upper Edge (MHz) | |
| | | | Result | Limit | Result | Limit |
| Frequency Stability vs. Temperature | -30 | 3.8 | 1850.597 | 1850.000 | 1909.388 | 1910.000 |
| | -20 | 3.8 | 1850.600 | 1850.000 | 1909.376 | 1910.000 |
| | -10 | 3.8 | 1850.597 | 1850.000 | 1909.364 | 1910.000 |
| | 0 | 3.8 | 1850.594 | 1850.000 | 1909.382 | 1910.000 |
| | 10 | 3.8 | 1850.594 | 1850.000 | 1909.376 | 1910.000 |
| | 20 | 3.8 | 1850.615 | 1850.000 | 1909.391 | 1910.000 |
| | 30 | 3.8 | 1850.636 | 1850.000 | 1909.397 | 1910.000 |
| | 40 | 3.8 | 1850.618 | 1850.000 | 1909.409 | 1910.000 |
| | 50 | 3.8 | 1850.633 | 1850.000 | 1909.412 | 1910.000 |
| Frequency Stability vs. Voltage | 20 | 3.5 | 1850.630 | 1850.000 | 1909.409 | 1910.000 |
| | 20 | 4.35 | 1850.624 | 1850.000 | 1909.418 | 1910.000 |
| | | | | | **Result:** | **Pass** |

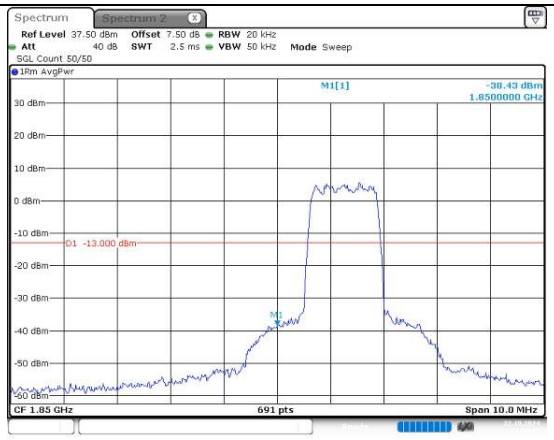
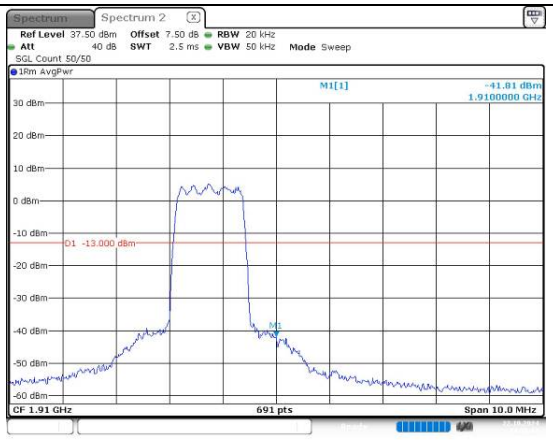
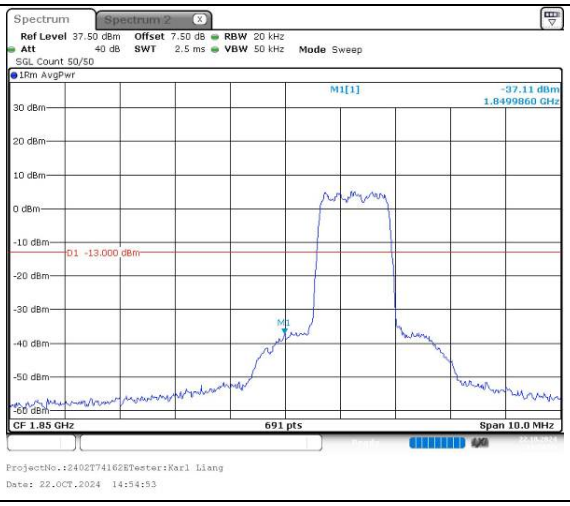
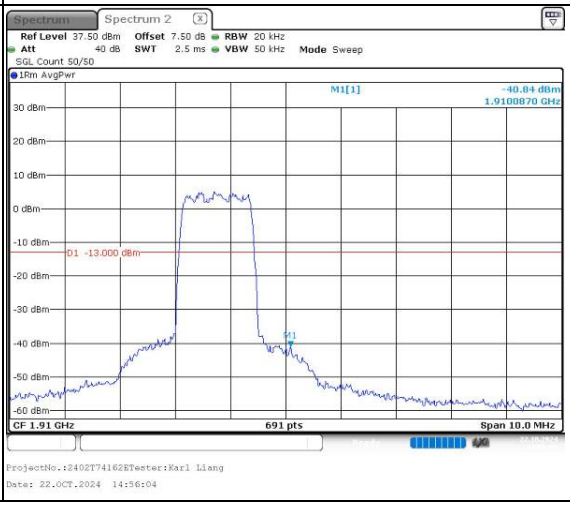
| Test Mode: | EV-DO | Test Channel: Lowest for Lower Edge,Highest for Upper Edge | | | | |
|---|---|---|---|---|---|---|
| Test Item | Temperature (℃) | Voltage (VDC) | Lower Edge (MHz) | | Upper Edge (MHz) | |
| | | | Result | Limit | Result | Limit |
| Frequency Stability vs. Temperature | -30 | 3.8 | 1850.609 | 1850.000 | 1909.379 | 1910.000 |
| | -20 | 3.8 | 1850.597 | 1850.000 | 1909.388 | 1910.000 |
| | -10 | 3.8 | 1850.594 | 1850.000 | 1909.367 | 1910.000 |
| | 0 | 3.8 | 1850.612 | 1850.000 | 1909.382 | 1910.000 |
| | 10 | 3.8 | 1850.600 | 1850.000 | 1909.373 | 1910.000 |
| | 20 | 3.8 | 1850.615 | 1850.000 | 1909.391 | 1910.000 |
| | 30 | 3.8 | 1850.633 | 1850.000 | 1909.415 | 1910.000 |
| | 40 | 3.8 | 1850.618 | 1850.000 | 1909.394 | 1910.000 |
| | 50 | 3.8 | 1850.627 | 1850.000 | 1909.397 | 1910.000 |
| Frequency Stability vs. Voltage | 20 | 3.5 | 1850.630 | 1850.000 | 1909.412 | 1910.000 |
| | 20 | 4.35 | 1850.636 | 1850.000 | 1909.406 | 1910.000 |
| | | | | | **Result:** | **Pass** |

**Test Plots**:

| Occupied Bandwidth | | |
|---|---|---|
| **Channel** | **1XRTT** | **EVDO** |
| Lowest |  |  |
| Middle |  |  |
| Highest |  |  |

| Spurious Emissions at Antenna Terminal | | |
|---|---|---|
| **Channel** | **1XRTT** | |
| Lowest |  |  |
| Middle |  |  |
| Highest |  |  |

| Spurious Emissions at Antenna Terminal | | |
|---|---|---|
| **Channel** | **EVDO** | |
| Lowest |  |  |
| Middle |  |  |
| Highest |  |  |

| Out of band emission, Band Edge | | |
|---|---|---|
| **Mode** | Lowest | Highest |
| **1XRTT** |  |  |
| **EVDO** |  |  |

## 5.8 Antenna Port Test Data and Results for LTE Bands:

Please refer to the attachment Appendix A.

## 5.9 Radiated Spurious Emissions

| | | | |
|---|---|---|---|
| Serial Number: | 2KWI-1 | Test Date: | Below 1GHz: 2024/5/16<br>Above 1GHz: 2024/5/16 |
| Test Site: | Chamber 10m, Chamber B | Test Mode: | Transmitting |
| Tester: | Leesin Xiang, Leo Xiao | Test Result: | Pass |

| **Environmental Conditions:** | | | | | |
|---|---|---|---|---|---|
| Temperature: (℃) | 24.1~24.2 | Relative Humidity: (%) | 42~45 | ATM Pressure: (kPa) | 100.8 |

**Test Equipment List and Details:**

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|---|---|---|---|---|---|
| 30MHz~1000MHz | | | | | |
| Sunol Sciences | Hybrid Antenna | JB3 | A060611-1 | 2023/9/6 | 2026/9/5 |
| Narda | Coaxial Attenuator | 779-6dB | 04269 | 2023/9/6 | 2026/9/5 |
| Unknown | Coaxial Cable | C-NJNJ-50 | C-1000-01 | 2023/8/1 | 2024/7/31 |
| Unknown | Coaxial Cable | C-NJNJ-50 | C-0400-04 | 2023/8/1 | 2024/7/31 |
| Unknown | Coaxial Cable | C-NJNJ-50 | C-0530-01 | 2023/8/1 | 2024/7/31 |
| Sonoma | Amplifier | 310N | 185914 | 2023/8/1 | 2024/7/31 |
| R&S | EMI Test Receiver | ESCI | 100224 | 2023/8/18 | 2024/8/17 |
| EMCO | Adjustable Dipole Antenna | 3121C | 9109-753 | N/A | N/A |
| Micro-Coax | Coaxial Cable | UFA210B | 99G1448 | 2023/9/9 | 2024/9/8 |
| Agilent | Signal Generator | E8247C | MY43321350 | 2023/10/18 | 2024/10/17 |
| Sinoscite | Band Rejection Filter | BSF824-862MS | 1438001.000000 | 2023/6/16 | 2024/6/15 |

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|---|---|---|---|---|---|
| Above 1GHz | | | | | |
| ETS-Lindgren | Horn Antenna | 3115 | 000 527 35 | 2023/9/7 | 2026/9/6 |
| AH | Horn Antenna | SAS-571 | 1177 | 2023/2/22 | 2026/2/21 |
| Ducommun Technologies | Horn Antenna | ARH-4223-02 | 1007726-02 1304 | 2023/2/22 | 2026/2/21 |
| Ducommun Technologies | Horn Antenna | ARH-4223-02 | 1007726-03 1304 | 2023/2/22 | 2026/2/21 |
| Ducommun Technologies | Horn Antenna | ARH-2823-02 | 1007726-01 1302 | 2023/2/22 | 2026/2/21 |
| Ducommun Technologies | Horn Antenna | ARH-2823-02 | 1007726-02 1302 | 2023/2/22 | 2026/2/21 |
| Xinhang Macrowave | Coaxial Cable | XH750A-N/J-SMA/J-10M | 20231117004 #0001 | 2023/11/17 | 2024/11/16 |
| Xinhang Macrowave | Coaxial Cable | XH360A-2.92/J-2.92/J-6M-A | 20231208001 #0001 | 2023/12/11 | 2024/12/10 |
| Micro-Coax | Coaxial Cable | UFA210B | 99G1448 | 2023/9/9 | 2024/9/8 |
| Agilent | Signal Generator | E8247C | MY43321350 | 2023/10/18 | 2024/10/17 |
| AH | Preamplifier | PAM-0118P | 469 | 2023/8/19 | 2024/8/18 |
| AH | Preamplifier | PAM-1840VH | 191 | 2023/9/7 | 2024/9/6 |
| R&S | Spectrum Analyzer | FSV40 | 101944 | 2023/10/18 | 2024/10/17 |
| R&S | Wideband Radio Communication Tester | CMW500 | 147473 | 2023/10/18 | 2024/10/17 |
| Sinoscite | Band Rejection Filter | BSF1710-1785MN | 0383003 | 2023/6/16 | 2024/6/15 |
| Sinoscite | Band Rejection Filter | BSF1850-1910MS | 0935V2001 | 2023/6/16 | 2024/6/15 |
| Sinoscite | Band Rejection Filter | BSF2500-2750MS | 1439001 | 2023/6/16 | 2024/6/15 |
| Mini-Circuits | High Pass Filter | VHF-1200+ | 31102 | 2023/8/1 | 2024/7/31 |
| Mini-Circuits | High Pass Filter | VHF-2700A+ | 31222 | 2023/12/1 | 2024/11/30 |

** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

**Test Data:**

After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

**Cellular Band (30MHz-10GHz)**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| GSM 850 Frequency:824.2MHz | | | | | | | | |
| 41.64 | H | 47.14 | -39.76 | -24.24 | 0.12 | -64.12 | -13.00 | 51.12 |
| 39.70 | V | 55.33 | -31.61 | -26.26 | 0.08 | -57.95 | -13.00 | 44.95 |
| 1648.40 | H | 69.33 | -55.80 | 10.44 | 0.71 | -46.07 | -13.00 | 33.07 |
| 1648.40 | V | 65.90 | -59.83 | 10.44 | 0.71 | -50.10 | -13.00 | 37.10 |
| 2472.60 | H | 64.13 | -58.65 | 12.88 | 1.25 | -47.02 | -13.00 | 34.02 |
| 2472.60 | V | 57.06 | -65.77 | 12.88 | 1.25 | -54.14 | -13.00 | 41.14 |
| 3296.80 | H | 47.54 | -71.85 | 13.60 | 1.59 | -59.84 | -13.00 | 46.84 |
| 3296.80 | V | 48.60 | -70.79 | 13.60 | 1.59 | -58.78 | -13.00 | 45.78 |
| GSM 850 Frequency:836.6MHz | | | | | | | | |
| 39.70 | H | 46.28 | -37.95 | -26.26 | 0.08 | -64.29 | -13.00 | 51.29 |
| 39.70 | V | 54.75 | -32.19 | -26.26 | 0.08 | -58.53 | -13.00 | 45.53 |
| 1673.20 | H | 68.87 | -55.88 | 10.61 | 0.73 | -46.00 | -13.00 | 33.00 |
| 1673.20 | V | 66.24 | -59.11 | 10.61 | 0.73 | -49.23 | -13.00 | 36.23 |
| 2509.80 | H | 62.44 | -60.44 | 13.11 | 1.25 | -48.58 | -13.00 | 35.58 |
| 2509.80 | V | 57.25 | -65.65 | 13.11 | 1.25 | -53.79 | -13.00 | 40.79 |
| 3346.40 | H | 48.57 | -70.64 | 13.83 | 1.61 | -58.42 | -13.00 | 45.42 |
| 3346.40 | V | 49.82 | -69.44 | 13.83 | 1.61 | -57.22 | -13.00 | 44.22 |
| GSM 850 Frequency:848.8MHz | | | | | | | | |
| 41.64 | H | 46.27 | -40.63 | -24.24 | 0.12 | -64.99 | -13.00 | 51.99 |
| 39.70 | V | 55.19 | -31.75 | -26.26 | 0.08 | -58.09 | -13.00 | 45.09 |
| 1697.60 | H | 68.99 | -55.38 | 10.78 | 0.75 | -45.35 | -13.00 | 32.35 |
| 1697.60 | V | 69.44 | -55.53 | 10.78 | 0.75 | -45.50 | -13.00 | 32.50 |
| 2546.40 | H | 64.21 | -58.66 | 13.15 | 1.27 | -46.78 | -13.00 | 33.78 |
| 2546.40 | V | 56.77 | -66.24 | 13.15 | 1.27 | -54.36 | -13.00 | 41.36 |
| 3395.20 | H | 49.84 | -69.15 | 14.08 | 1.64 | -56.71 | -13.00 | 43.71 |
| 3395.20 | V | 51.49 | -67.60 | 14.08 | 1.64 | -55.16 | -13.00 | 42.16 |

**PCS Band (30MHz-20GHz)**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| GSM 1900 Frequency:1850.2MHz | | | | | | | | |
| 41.64 | H | 45.73 | -41.17 | -24.24 | 0.12 | -65.53 | -13.00 | 52.53 |
| 39.70 | V | 54.27 | -32.67 | -26.26 | 0.08 | -59.01 | -13.00 | 46.01 |
| 3700.40 | H | 51.79 | -66.78 | 14.00 | 1.83 | -54.61 | -13.00 | 41.61 |
| 3700.40 | V | 49.87 | -68.68 | 14.00 | 1.83 | -56.51 | -13.00 | 43.51 |
| 5550.60 | H | 59.44 | -54.67 | 13.95 | 1.27 | -41.99 | -13.00 | 28.99 |
| 5550.60 | V | 59.05 | -54.91 | 13.95 | 1.27 | -42.23 | -13.00 | 29.23 |
| GSM 1900 Frequency:1880MHz | | | | | | | | |
| 39.70 | H | 46.32 | -37.91 | -26.26 | 0.08 | -64.25 | -13.00 | 51.25 |
| 39.70 | V | 53.37 | -33.57 | -26.26 | 0.08 | -59.91 | -13.00 | 46.91 |
| 3760.00 | H | 52.65 | -65.19 | 13.76 | 1.63 | -53.06 | -13.00 | 40.06 |
| 3760.00 | V | 53.19 | -64.52 | 13.76 | 1.63 | -52.39 | -13.00 | 39.39 |
| 5640.00 | H | 57.69 | -56.03 | 14.02 | 1.31 | -43.32 | -13.00 | 30.32 |
| 5640.00 | V | 58.33 | -55.28 | 14.02 | 1.31 | -42.57 | -13.00 | 29.57 |
| GSM 1900 Frequency:1909.8MHz | | | | | | | | |
| 39.70 | H | 45.27 | -38.96 | -26.26 | 0.08 | -65.30 | -13.00 | 52.30 |
| 39.70 | V | 54.20 | -32.74 | -26.26 | 0.08 | -59.08 | -13.00 | 46.08 |
| 3819.60 | H | 52.61 | -64.66 | 13.56 | 1.50 | -52.60 | -13.00 | 39.60 |
| 3819.60 | V | 55.62 | -61.46 | 13.56 | 1.50 | -49.40 | -13.00 | 36.40 |
| 5729.40 | H | 58.94 | -55.08 | 13.96 | 1.31 | -42.43 | -13.00 | 29.43 |
| 5729.40 | V | 57.81 | -56.18 | 13.96 | 1.31 | -43.53 | -13.00 | 30.53 |

**WCDMA Band 2(30MHz-20GHz):**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| WCDMA Band 2 Frequency:1852.4 MHz | | | | | | | | |
| 41.60 | H | 45.27 | -41.57 | -24.29 | 0.12 | -65.98 | -13.00 | 52.98 |
| 39.70 | V | 54.07 | -32.87 | -26.26 | 0.08 | -59.21 | -13.00 | 46.21 |
| 3704.80 | H | 48.31 | -70.21 | 13.98 | 1.81 | -58.04 | -13.00 | 45.04 |
| 3704.80 | V | 48.45 | -70.04 | 13.98 | 1.81 | -57.87 | -13.00 | 44.87 |
| 5557.20 | H | 46.57 | -67.48 | 13.97 | 1.27 | -54.78 | -13.00 | 41.78 |
| 5557.20 | V | 47.78 | -66.12 | 13.97 | 1.27 | -53.42 | -13.00 | 40.42 |
| WCDMA Band 2 Frequency:1880MHz | | | | | | | | |
| 37.76 | H | 45.70 | -35.39 | -25.32 | 0.09 | -60.80 | -13.00 | 47.80 |
| 39.70 | V | 52.09 | -34.85 | -26.26 | 0.08 | -61.19 | -13.00 | 48.19 |
| 3760.00 | H | 48.56 | -69.28 | 13.76 | 1.63 | -57.15 | -13.00 | 44.15 |
| 3760.00 | V | 48.25 | -69.46 | 13.76 | 1.63 | -57.33 | -13.00 | 44.33 |
| 5640.00 | H | 46.13 | -67.59 | 14.02 | 1.31 | -54.88 | -13.00 | 41.88 |
| 5640.00 | V | 46.38 | -67.23 | 14.02 | 1.31 | -54.52 | -13.00 | 41.52 |
| WCDMA Band 2 Frequency:1907.6MHz | | | | | | | | |
| 41.60 | H | 47.05 | -39.79 | -24.29 | 0.12 | -64.20 | -13.00 | 51.20 |
| 41.76 | V | 54.40 | -34.70 | -24.08 | 0.12 | -58.90 | -13.00 | 45.90 |
| 3815.20 | H | 49.82 | -67.47 | 13.57 | 1.50 | -55.40 | -13.00 | 42.40 |
| 3815.20 | V | 48.28 | -68.82 | 13.57 | 1.50 | -56.75 | -13.00 | 43.75 |
| 5722.80 | H | 47.45 | -66.54 | 13.95 | 1.32 | -53.91 | -13.00 | 40.91 |
| 5722.80 | V | 46.51 | -67.43 | 13.95 | 1.32 | -54.80 | -13.00 | 41.80 |

**WCDMA Band 4(30MHz-20GHz):**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| WCDMA Band 4 Frequency:1712.4 MHz | | | | | | | | |
| 41.76 | H | 46.09 | -40.97 | -24.08 | 0.12 | -65.17 | -13.00 | 52.17 |
| 39.70 | V | 54.71 | -32.23 | -26.26 | 0.08 | -58.57 | -13.00 | 45.57 |
| 3424.80 | H | 52.30 | -66.60 | 14.03 | 1.63 | -54.20 | -13.00 | 41.20 |
| 3424.80 | V | 53.46 | -65.51 | 14.03 | 1.63 | -53.11 | -13.00 | 40.11 |
| 5137.20 | H | 49.21 | -67.29 | 13.94 | 1.39 | -54.74 | -13.00 | 41.74 |
| 5137.20 | V | 50.14 | -66.28 | 13.94 | 1.39 | -53.73 | -13.00 | 40.73 |
| WCDMA Band 4 Frequency:1732.6MHz | | | | | | | | |
| 39.70 | H | 47.23 | -37.00 | -26.26 | 0.08 | -63.34 | -13.00 | 50.34 |
| 39.70 | V | 55.07 | -31.87 | -26.26 | 0.08 | -58.21 | -13.00 | 45.21 |
| 3465.20 | H | 52.43 | -66.35 | 13.90 | 1.62 | -54.07 | -13.00 | 41.07 |
| 3465.20 | V | 51.17 | -67.64 | 13.90 | 1.62 | -55.36 | -13.00 | 42.36 |
| 5197.80 | H | 49.76 | -66.61 | 14.00 | 1.52 | -54.13 | -13.00 | 41.13 |
| 5197.80 | V | 50.31 | -66.13 | 14.00 | 1.52 | -53.65 | -13.00 | 40.65 |
| WCDMA Band 4 Frequency:1752.6MHz | | | | | | | | |
| 41.46 | H | 46.55 | -40.11 | -24.47 | 0.11 | -64.69 | -13.00 | 51.69 |
| 39.70 | V | 54.90 | -32.04 | -26.26 | 0.08 | -58.38 | -13.00 | 45.38 |
| 3505.20 | H | 54.77 | -63.93 | 13.82 | 1.60 | -51.71 | -13.00 | 38.71 |
| 3505.20 | V | 52.20 | -66.50 | 13.82 | 1.60 | -54.28 | -13.00 | 41.28 |
| 5257.80 | H | 50.34 | -66.39 | 14.17 | 1.31 | -53.53 | -13.00 | 40.53 |
| 5257.80 | V | 50.25 | -66.56 | 14.17 | 1.31 | -53.70 | -13.00 | 40.70 |

**WCDMA Band 5(30MHz-10GHz):**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| WCDMA Band 5 Frequency:826.4 MHz | | | | | | | | |
| 41.46 | H | 47.50 | -39.16 | -24.47 | 0.11 | -63.74 | -13.00 | 50.74 |
| 39.70 | V | 53.68 | -33.26 | -26.26 | 0.08 | -59.60 | -13.00 | 46.60 |
| 1652.80 | H | 62.32 | -62.74 | 10.47 | 0.72 | -52.99 | -13.00 | 39.99 |
| 1652.80 | V | 60.54 | -65.12 | 10.47 | 0.72 | -55.37 | -13.00 | 42.37 |
| 2479.20 | H | 52.71 | -70.09 | 12.93 | 1.25 | -58.41 | -13.00 | 45.41 |
| 2479.20 | V | 51.34 | -71.50 | 12.93 | 1.25 | -59.82 | -13.00 | 46.82 |
| 3305.60 | H | 46.48 | -72.91 | 13.63 | 1.59 | -60.87 | -13.00 | 47.87 |
| 3305.60 | V | 46.27 | -73.13 | 13.63 | 1.59 | -61.09 | -13.00 | 48.09 |
| WCDMA Band 5 Frequency:836.6MHz | | | | | | | | |
| 39.70 | H | 46.59 | -37.64 | -26.26 | 0.08 | -63.98 | -13.00 | 50.98 |
| 39.70 | V | 55.20 | -31.74 | -26.26 | 0.08 | -58.08 | -13.00 | 45.08 |
| 1673.20 | H | 62.27 | -62.48 | 10.61 | 0.73 | -52.60 | -13.00 | 39.60 |
| 1673.20 | V | 60.69 | -64.66 | 10.61 | 0.73 | -54.78 | -13.00 | 41.78 |
| 2509.80 | H | 52.50 | -70.38 | 13.11 | 1.25 | -58.52 | -13.00 | 45.52 |
| 2509.80 | V | 52.75 | -70.15 | 13.11 | 1.25 | -58.29 | -13.00 | 45.29 |
| 3346.40 | H | 47.29 | -71.92 | 13.83 | 1.61 | -59.70 | -13.00 | 46.70 |
| 3346.40 | V | 46.90 | -72.36 | 13.83 | 1.61 | -60.14 | -13.00 | 47.14 |
| WCDMA Band 5 Frequency:846.6MHz | | | | | | | | |
| 41.76 | H | 47.40 | -39.66 | -24.08 | 0.12 | -63.86 | -13.00 | 50.86 |
| 39.70 | V | 52.80 | -34.14 | -26.26 | 0.08 | -60.48 | -13.00 | 47.48 |
| 1693.20 | H | 64.75 | -59.69 | 10.75 | 0.75 | -49.69 | -13.00 | 36.69 |
| 1693.20 | V | 62.57 | -62.47 | 10.75 | 0.75 | -52.47 | -13.00 | 39.47 |
| 2539.80 | H | 53.64 | -69.23 | 13.14 | 1.27 | -57.36 | -13.00 | 44.36 |
| 2539.80 | V | 50.76 | -72.23 | 13.14 | 1.27 | -60.36 | -13.00 | 47.36 |
| 3386.40 | H | 46.33 | -72.70 | 14.03 | 1.63 | -60.30 | -13.00 | 47.30 |
| 3386.40 | V | 47.60 | -71.52 | 14.03 | 1.63 | -59.12 | -13.00 | 46.12 |

**CDWA (BC0)_ (30MHz-10GHz)**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| CDMA (BC0)Frequency:824.7MHz | | | | | | | | |
| 41.54 | H | 44.78 | -41.99 | -24.37 | 0.11 | -66.47 | -13.00 | 53.47 |
| 39.29 | V | 53.12 | -33.24 | -26.06 | 0.08 | -59.38 | -13.00 | 46.38 |
| 1649.40 | H | 59.87 | -65.24 | 10.45 | 0.71 | -55.50 | -13.00 | 42.50 |
| 1649.40 | V | 58.14 | -67.57 | 10.45 | 0.71 | -57.83 | -13.00 | 44.83 |
| 2474.10 | H | 51.64 | -71.14 | 12.89 | 1.25 | -59.50 | -13.00 | 46.50 |
| 2474.10 | V | 50.67 | -72.16 | 12.89 | 1.25 | -60.52 | -13.00 | 47.52 |
| 3298.80 | H | 47.35 | -72.06 | 13.60 | 1.59 | -60.05 | -13.00 | 47.05 |
| 3298.80 | V | 48.19 | -71.22 | 13.60 | 1.59 | -59.21 | -13.00 | 46.21 |
| CDMA (BC0) Frequency:836.52MHz | | | | | | | | |
| 37.71 | H | 44.86 | -36.15 | -25.30 | 0.09 | -61.54 | -13.00 | 48.54 |
| 39.46 | V | 53.23 | -33.37 | -26.14 | 0.08 | -59.59 | -13.00 | 46.59 |
| 1673.04 | H | 61.67 | -63.08 | 10.61 | 0.73 | -53.20 | -13.00 | 40.20 |
| 1673.04 | V | 60.88 | -64.47 | 10.61 | 0.73 | -54.59 | -13.00 | 41.59 |
| 2509.56 | H | 52.31 | -70.57 | 13.11 | 1.25 | -58.71 | -13.00 | 45.71 |
| 2509.56 | V | 51.76 | -71.14 | 13.11 | 1.25 | -59.28 | -13.00 | 46.28 |
| 3346.08 | H | 48.16 | -71.05 | 13.83 | 1.61 | -58.83 | -13.00 | 45.83 |
| 3346.08 | V | 46.37 | -72.89 | 13.83 | 1.61 | -60.67 | -13.00 | 47.67 |
| CDMA (BC0) Frequency:848.31MHz | | | | | | | | |
| 41.08 | H | 44.95 | -41.20 | -24.97 | 0.10 | -66.27 | -13.00 | 53.27 |
| 41.91 | V | 53.38 | -35.87 | -23.88 | 0.12 | -59.87 | -13.00 | 46.87 |
| 1696.62 | H | 63.67 | -60.71 | 10.78 | 0.75 | -50.68 | -13.00 | 37.68 |
| 1696.62 | V | 62.49 | -62.49 | 10.78 | 0.75 | -52.46 | -13.00 | 39.46 |
| 2544.93 | H | 53.57 | -69.30 | 13.14 | 1.27 | -57.43 | -13.00 | 44.43 |
| 2544.93 | V | 50.84 | -72.17 | 13.14 | 1.27 | -60.30 | -13.00 | 47.30 |
| 3393.24 | H | 46.79 | -72.21 | 14.07 | 1.64 | -59.78 | -13.00 | 46.78 |
| 3393.24 | V | 47.81 | -71.28 | 14.07 | 1.64 | -58.85 | -13.00 | 45.85 |

**CDWA (BC1) (30MHz-20GHz)**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| CDMA (BC1) Frequency:1851.25MHz | | | | | | | | |
| 41.22 | H | 45.56 | -40.78 | -24.79 | 0.11 | -65.68 | -13.00 | 52.68 |
| 39.54 | V | 54.14 | -32.57 | -26.18 | 0.08 | -58.83 | -13.00 | 45.83 |
| 3702.50 | H | 49.97 | -68.58 | 13.99 | 1.82 | -56.41 | -13.00 | 43.41 |
| 3702.50 | V | 49.35 | -69.17 | 13.99 | 1.82 | -57.00 | -13.00 | 44.00 |
| 5553.75 | H | 49.17 | -64.91 | 13.96 | 1.27 | -52.22 | -13.00 | 39.22 |
| 5553.75 | V | 49.30 | -64.63 | 13.96 | 1.27 | -51.94 | -13.00 | 38.94 |
| CDMA (BC1) Frequency:1880MHz | | | | | | | | |
| 37.83 | H | 45.82 | -35.38 | -25.36 | 0.09 | -60.83 | -13.00 | 47.83 |
| 39.21 | V | 54.31 | -31.94 | -26.02 | 0.08 | -58.04 | -13.00 | 45.04 |
| 3760.00 | H | 49.83 | -68.01 | 13.76 | 1.63 | -55.88 | -13.00 | 42.88 |
| 3760.00 | V | 49.31 | -68.40 | 13.76 | 1.63 | -56.27 | -13.00 | 43.27 |
| 5640.00 | H | 49.27 | -64.45 | 14.02 | 1.31 | -51.74 | -13.00 | 38.74 |
| 5640.00 | V | 49.06 | -64.55 | 14.02 | 1.31 | -51.84 | -13.00 | 38.84 |
| CDMA (BC1) Frequency:1908.75MHz | | | | | | | | |
| 41.57 | H | 45.99 | -40.81 | -24.33 | 0.11 | -65.25 | -13.00 | 52.25 |
| 41.32 | V | 54.57 | -34.10 | -24.66 | 0.11 | -58.87 | -13.00 | 45.87 |
| 3817.50 | H | 49.78 | -67.50 | 13.57 | 1.50 | -55.43 | -13.00 | 42.43 |
| 3817.50 | V | 49.38 | -67.71 | 13.57 | 1.50 | -55.64 | -13.00 | 42.64 |
| 5726.25 | H | 48.15 | -65.85 | 13.95 | 1.32 | -53.22 | -13.00 | 40.22 |
| 5726.25 | V | 48.37 | -65.60 | 13.95 | 1.32 | -52.97 | -13.00 | 39.97 |

**LTE Bands:**

(The Worst modulation and bandwidth was below)

**LTE Band 2(30MHz-20GHz):**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| 1RB, 1.4MHz, QPSK,Frequency:1850.7 MHz | | | | | | | | |
| 41.64 | H | 46.76 | -40.14 | -24.24 | 0.12 | -64.50 | -13.00 | 51.50 |
| 39.70 | V | 55.22 | -31.72 | -26.26 | 0.08 | -58.06 | -13.00 | 45.06 |
| 3701.40 | H | 47.60 | -70.96 | 13.99 | 1.83 | -58.80 | -13.00 | 45.80 |
| 3701.40 | V | 48.58 | -69.96 | 13.99 | 1.83 | -57.80 | -13.00 | 44.80 |
| 5552.10 | H | 48.88 | -65.22 | 13.96 | 1.27 | -52.53 | -13.00 | 39.53 |
| 5552.10 | V | 48.30 | -65.65 | 13.96 | 1.27 | -52.96 | -13.00 | 39.96 |
| 1RB, 1.4MHz, QPSK,Frequency:1880 MHz | | | | | | | | |
| 41.64 | H | 47.18 | -39.72 | -24.24 | 0.12 | -64.08 | -13.00 | 51.08 |
| 39.70 | V | 55.81 | -31.13 | -26.26 | 0.08 | -57.47 | -13.00 | 44.47 |
| 3760.00 | H | 47.71 | -70.13 | 13.76 | 1.63 | -58.00 | -13.00 | 45.00 |
| 3760.00 | V | 46.90 | -70.81 | 13.76 | 1.63 | -58.68 | -13.00 | 45.68 |
| 5640.00 | H | 48.22 | -65.50 | 14.02 | 1.31 | -52.79 | -13.00 | 39.79 |
| 5640.00 | V | 47.67 | -65.94 | 14.02 | 1.31 | -53.23 | -13.00 | 40.23 |
| 1RB, 1.4MHz, QPSK,Frequency:1909.3 MHz | | | | | | | | |
| 39.70 | H | 46.44 | -37.79 | -26.26 | 0.08 | -64.13 | -13.00 | 51.13 |
| 39.70 | V | 55.51 | -31.43 | -26.26 | 0.08 | -57.77 | -13.00 | 44.77 |
| 3818.60 | H | 48.32 | -68.95 | 13.56 | 1.50 | -56.89 | -13.00 | 43.89 |
| 3818.60 | V | 48.73 | -68.36 | 13.56 | 1.50 | -56.30 | -13.00 | 43.30 |
| 5727.90 | H | 49.83 | -64.18 | 13.96 | 1.31 | -51.53 | -13.00 | 38.53 |
| 5727.90 | V | 48.35 | -65.63 | 13.96 | 1.31 | -52.98 | -13.00 | 39.98 |

**LTE Band 4(30MHz-20GHz):**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBµV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| 1RB, 1.4MHz, QPSK,Frequency:1710.7 MHz | | | | | | | | |
| 39.70 | H | 46.05 | -38.18 | -26.26 | 0.08 | -64.52 | -13.00 | 51.52 |
| 41.64 | V | 52.60 | -36.38 | -24.24 | 0.12 | -60.74 | -13.00 | 47.74 |
| 3421.40 | H | 52.79 | -66.12 | 14.04 | 1.63 | -53.71 | -13.00 | 40.71 |
| 3421.40 | V | 56.08 | -62.90 | 14.04 | 1.63 | -50.49 | -13.00 | 37.49 |
| 5132.10 | H | 50.13 | -66.38 | 13.93 | 1.37 | -53.82 | -13.00 | 40.82 |
| 5132.10 | V | 51.12 | -65.30 | 13.93 | 1.37 | -52.74 | -13.00 | 39.74 |
| 1RB, 1.4MHz, QPSK,Frequency:1732.5 MHz | | | | | | | | |
| 39.70 | H | 46.74 | -37.49 | -26.26 | 0.08 | -63.83 | -13.00 | 50.83 |
| 39.70 | V | 54.27 | -32.67 | -26.26 | 0.08 | -59.01 | -13.00 | 46.01 |
| 3465.00 | H | 50.74 | -68.04 | 13.91 | 1.62 | -55.75 | -13.00 | 42.75 |
| 3465.00 | V | 50.19 | -68.62 | 13.91 | 1.62 | -56.33 | -13.00 | 43.33 |
| 5197.50 | H | 50.87 | -65.50 | 14.00 | 1.52 | -53.02 | -13.00 | 40.02 |
| 5197.50 | V | 50.42 | -66.02 | 14.00 | 1.52 | -53.54 | -13.00 | 40.54 |
| 1RB, 1.4MHz, QPSK,Frequency:1754.3MHz | | | | | | | | |
| 39.70 | H | 46.86 | -37.37 | -26.26 | 0.08 | -63.71 | -13.00 | 50.71 |
| 39.70 | V | 54.04 | -32.90 | -26.26 | 0.08 | -59.24 | -13.00 | 46.24 |
| 3508.60 | H | 50.14 | -68.57 | 13.83 | 1.60 | -56.34 | -13.00 | 43.34 |
| 3508.60 | V | 50.59 | -68.12 | 13.83 | 1.60 | -55.89 | -13.00 | 42.89 |
| 5262.90 | H | 50.65 | -66.12 | 14.19 | 1.29 | -53.22 | -13.00 | 40.22 |
| 5262.90 | V | 50.07 | -66.78 | 14.19 | 1.29 | -53.88 | -13.00 | 40.88 |

**LTE Band 5(30MHz-10GHz):**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| 1RB, 1.4MHz, QPSK, Frequency: 824.7 MHz | | | | | | | | |
| 39.70 | H | 45.68 | -38.55 | -26.26 | 0.08 | -64.89 | -13.00 | 51.89 |
| 41.64 | V | 54.28 | -34.70 | -24.24 | 0.12 | -59.06 | -13.00 | 46.06 |
| 1649.40 | H | 63.21 | -61.90 | 10.45 | 0.71 | -52.16 | -13.00 | 39.16 |
| 1649.40 | V | 61.37 | -64.34 | 10.45 | 0.71 | -54.60 | -13.00 | 41.60 |
| 2474.10 | H | 52.46 | -70.32 | 12.89 | 1.25 | -58.68 | -13.00 | 45.68 |
| 2474.10 | V | 52.10 | -70.73 | 12.89 | 1.25 | -59.09 | -13.00 | 46.09 |
| 3298.80 | H | 46.55 | -72.86 | 13.60 | 1.59 | -60.85 | -13.00 | 47.85 |
| 3298.80 | V | 46.03 | -73.38 | 13.60 | 1.59 | -61.37 | -13.00 | 48.37 |
| 1RB, 1.4MHz, QPSK, Frequency: 836.5 MHz | | | | | | | | |
| 39.70 | H | 47.33 | -36.90 | -26.26 | 0.08 | -63.24 | -13.00 | 50.24 |
| 41.64 | V | 54.80 | -34.18 | -24.24 | 0.12 | -58.54 | -13.00 | 45.54 |
| 1673.00 | H | 62.16 | -62.59 | 10.61 | 0.73 | -52.71 | -13.00 | 39.71 |
| 1673.00 | V | 60.08 | -65.27 | 10.61 | 0.73 | -55.39 | -13.00 | 42.39 |
| 2509.50 | H | 52.73 | -70.15 | 13.11 | 1.25 | -58.29 | -13.00 | 45.29 |
| 2509.50 | V | 51.99 | -70.91 | 13.11 | 1.25 | -59.05 | -13.00 | 46.05 |
| 3346.00 | H | 46.44 | -72.77 | 13.83 | 1.61 | -60.55 | -13.00 | 47.55 |
| 3346.00 | V | 46.49 | -72.77 | 13.83 | 1.61 | -60.55 | -13.00 | 47.55 |
| 1RB, 1.4MHz, QPSK, Frequency: 848.3 MHz | | | | | | | | |
| 39.70 | H | 46.38 | -37.85 | -26.26 | 0.08 | -64.19 | -13.00 | 51.19 |
| 39.70 | V | 54.50 | -32.44 | -26.26 | 0.08 | -58.78 | -13.00 | 45.78 |
| 1696.60 | H | 64.14 | -60.24 | 10.78 | 0.75 | -50.21 | -13.00 | 37.21 |
| 1696.60 | V | 63.44 | -61.54 | 10.78 | 0.75 | -51.51 | -13.00 | 38.51 |
| 2544.90 | H | 52.45 | -70.42 | 13.14 | 1.27 | -58.55 | -13.00 | 45.55 |
| 2544.90 | V | 50.50 | -72.51 | 13.14 | 1.27 | -60.64 | -13.00 | 47.64 |
| 3393.20 | H | 46.88 | -72.12 | 14.07 | 1.64 | -59.69 | -13.00 | 46.69 |
| 3393.20 | V | 47.11 | -71.98 | 14.07 | 1.64 | -59.55 | -13.00 | 46.55 |

**LTE Band 7(30MHz-26GHz):**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBµV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| 1RB, 5MHz, QPSK, Frequency: 2502.5 MHz | | | | | | | | |
| 39.70 | H | 45.17 | -39.06 | -26.26 | 0.08 | -65.40 | -25.00 | 40.40 |
| 41.64 | V | 52.51 | -36.47 | -24.24 | 0.12 | -60.83 | -25.00 | 35.83 |
| 5005.00 | H | 50.39 | -67.26 | 14.00 | 1.43 | -54.69 | -25.00 | 29.69 |
| 5005.00 | V | 49.37 | -68.04 | 14.00 | 1.43 | -55.47 | -25.00 | 30.47 |
| 7507.50 | H | 47.95 | -61.18 | 13.20 | 1.33 | -49.31 | -25.00 | 24.31 |
| 7507.50 | V | 48.11 | -61.50 | 13.20 | 1.33 | -49.63 | -25.00 | 24.63 |
| 1RB, 5MHz, QPSK, Frequency: 2535 MHz | | | | | | | | |
| 41.64 | H | 43.89 | -43.01 | -24.24 | 0.12 | -67.37 | -25.00 | 42.37 |
| 39.70 | V | 53.18 | -33.76 | -26.26 | 0.08 | -60.10 | -25.00 | 35.10 |
| 5070.00 | H | 50.54 | -66.37 | 13.93 | 1.34 | -53.78 | -25.00 | 28.78 |
| 5070.00 | V | 51.13 | -65.59 | 13.93 | 1.34 | -53.00 | -25.00 | 28.00 |
| 7605.00 | H | 46.70 | -62.71 | 13.21 | 1.40 | -50.90 | -25.00 | 25.90 |
| 7605.00 | V | 47.48 | -62.33 | 13.21 | 1.40 | -50.52 | -25.00 | 25.52 |
| 1RB, 5MHz, QPSK, Frequency: 2567.5 MHz | | | | | | | | |
| 39.70 | H | 45.74 | -38.49 | -26.26 | 0.08 | -64.83 | -25.00 | 39.83 |
| 41.64 | V | 52.70 | -36.28 | -24.24 | 0.12 | -60.64 | -25.00 | 35.64 |
| 5135.00 | H | 53.44 | -63.06 | 13.94 | 1.38 | -50.50 | -25.00 | 25.50 |
| 5135.00 | V | 56.44 | -59.98 | 13.94 | 1.38 | -47.42 | -25.00 | 22.42 |
| 7702.50 | H | 45.88 | -63.81 | 13.40 | 1.47 | -51.88 | -25.00 | 26.88 |
| 7702.50 | V | 47.26 | -62.75 | 13.40 | 1.47 | -50.82 | -25.00 | 25.82 |

**LTE Band 38(30MHz-26.5GHz):**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBµV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| 1RB, 5MHz,QPSK, Frequency: 2572.5 MHz | | | | | | | | |
| 35.82 | H | 44.97 | -32.97 | -24.39 | 0.10 | -57.46 | -25.00 | 32.46 |
| 35.82 | V | 53.21 | -28.26 | -24.39 | 0.10 | -52.75 | -25.00 | 27.75 |
| 5145.00 | H | 50.32 | -66.16 | 13.95 | 1.40 | -53.61 | -25.00 | 28.61 |
| 5145.00 | V | 53.43 | -62.99 | 13.95 | 1.40 | -50.44 | -25.00 | 25.44 |
| 7717.50 | H | 45.89 | -63.84 | 13.38 | 1.48 | -51.94 | -25.00 | 26.94 |
| 7717.50 | V | 46.17 | -63.87 | 13.38 | 1.48 | -51.97 | -25.00 | 26.97 |
| 1RB, 5MHz,QPSK, Frequency:2595 MHz | | | | | | | | |
| 39.70 | H | 47.49 | -36.74 | -26.26 | 0.08 | -63.08 | -25.00 | 38.08 |
| 41.64 | V | 55.21 | -33.77 | -24.24 | 0.12 | -58.13 | -25.00 | 33.13 |
| 5190.00 | H | 52.61 | -63.77 | 13.99 | 1.51 | -51.29 | -25.00 | 26.29 |
| 5190.00 | V | 55.47 | -60.97 | 13.99 | 1.51 | -48.49 | -25.00 | 23.49 |
| 7785.00 | H | 46.24 | -63.69 | 13.32 | 1.53 | -51.90 | -25.00 | 26.90 |
| 7785.00 | V | 46.90 | -63.28 | 13.32 | 1.53 | -51.49 | -25.00 | 26.49 |
| 1RB, 5MHz,QPSK, Frequency: 2617.5 MHz | | | | | | | | |
| 39.70 | H | 47.20 | -37.03 | -26.26 | 0.08 | -63.37 | -25.00 | 38.37 |
| 39.70 | V | 53.64 | -33.30 | -26.26 | 0.08 | -59.64 | -25.00 | 34.64 |
| 5235.00 | H | 56.22 | -60.37 | 14.11 | 1.40 | -47.66 | -25.00 | 22.66 |
| 5235.00 | V | 60.65 | -56.02 | 14.11 | 1.40 | -43.31 | -25.00 | 18.31 |
| 7852.50 | H | 46.86 | -63.26 | 13.25 | 1.58 | -51.59 | -25.00 | 26.59 |
| 7852.50 | V | 48.07 | -62.25 | 13.25 | 1.58 | -50.58 | -25.00 | 25.58 |

**LTE Band 41(30MHz-27GHz):**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|---|---|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| 1RB, 5MHz,QPSK, Frequency: 2537.5 MHz | | | | | | | | |
| 39.70 | H | 47.07 | -37.16 | -26.26 | 0.08 | -63.50 | -25.00 | 38.50 |
| 41.64 | V | 53.29 | -35.69 | -24.24 | 0.12 | -60.05 | -25.00 | 35.05 |
| 5075.00 | H | 48.41 | -68.45 | 13.93 | 1.34 | -55.86 | -25.00 | 30.86 |
| 5075.00 | V | 49.04 | -67.63 | 13.93 | 1.34 | -55.04 | -25.00 | 30.04 |
| 7612.50 | H | 47.17 | -62.26 | 13.23 | 1.40 | -50.43 | -25.00 | 25.43 |
| 7612.50 | V | 46.56 | -63.27 | 13.23 | 1.40 | -51.44 | -25.00 | 26.44 |
| 1RB, 5MHz,QPSK, Frequency:2595 MHz | | | | | | | | |
| 36.37 | H | 46.30 | -32.53 | -24.66 | 0.09 | -57.28 | -25.00 | 32.28 |
| 39.70 | V | 54.27 | -32.67 | -26.26 | 0.08 | -59.01 | -25.00 | 34.01 |
| 5190.00 | H | 48.27 | -68.11 | 13.99 | 1.51 | -55.63 | -25.00 | 30.63 |
| 5190.00 | V | 47.34 | -69.10 | 13.99 | 1.51 | -56.62 | -25.00 | 31.62 |
| 7785.00 | H | 46.66 | -63.27 | 13.32 | 1.53 | -51.48 | -25.00 | 26.48 |
| 7785.00 | V | 47.28 | -62.90 | 13.32 | 1.53 | -51.11 | -25.00 | 26.11 |
| 1RB, 5MHz,QPSK, Frequency: 2652.5 MHz | | | | | | | | |
| 35.82 | H | 45.70 | -32.24 | -24.39 | 0.10 | -56.73 | -25.00 | 31.73 |
| 39.70 | V | 55.21 | -31.73 | -26.26 | 0.08 | -58.07 | -25.00 | 33.07 |
| 5305.00 | H | 48.80 | -68.04 | 14.29 | 1.17 | -54.92 | -25.00 | 29.92 |
| 5305.00 | V | 48.43 | -68.49 | 14.29 | 1.17 | -55.37 | -25.00 | 30.37 |
| 7957.50 | H | 46.33 | -64.10 | 13.32 | 1.66 | -52.44 | -25.00 | 27.44 |
| 7957.50 | V | 46.25 | -64.28 | 13.32 | 1.66 | -52.62 | -25.00 | 27.62 |

Note:
1) The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
2) Absolute Level = Substituted Level - Cable loss + Antenna Gain
3) Margin = Limit-Absolute Level

# EXHIBIT A - EUT PHOTOGRAPHS

Please refer to the attachment 2402T74162E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2402T74162E-RF-INP EUT INTERNAL PHOTOGRAPHS

# EXHIBIT B - TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2402T74162E-RF-00G-TSP TEST SETUP PHOTOGRAPHS.

******* END OF REPORT *******