



LTE Band 5/26 (824 – 849 MHz) (1.4 MHz BW)/QPSK/Low Channel 824.7 MHz/Full RB Band Edge @824 MHz



15:27:03 16.07.2018

LTE Band 5/26 (824 – 849 MHz) (1.4 MHz BW)/QPSK/High Channel 848.3 MHz/Full RB Band Edge @849 MHz



15:29:57 16.07.2018



**LTE Band 5/26 (824 – 849 MHz) (1.4 MHz BW)/QPSK/Low Channel 824.7 MHz/1 RB 0 offset Band Edge
@824 MHz**

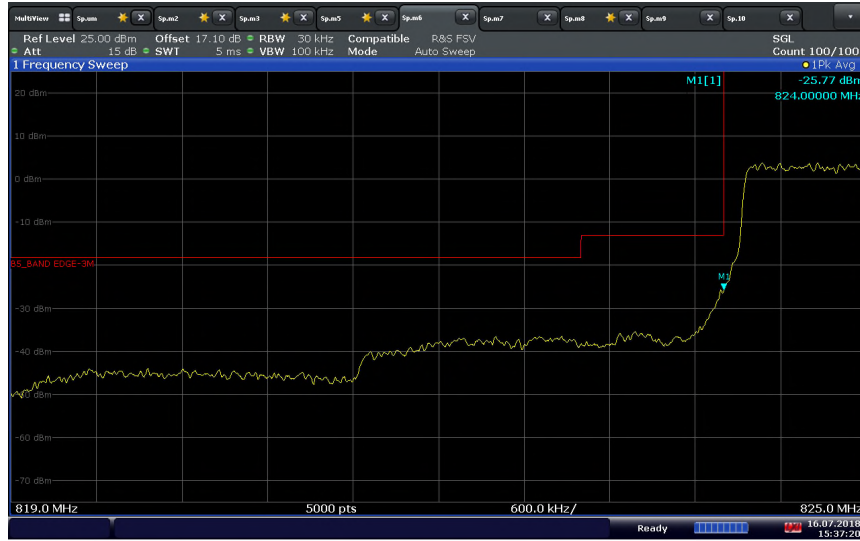


**LTE Band 5/26 (824 – 849 MHz) (1.4 MHz BW)/QPSK/High Channel 848.3 MHz/1 RB 5 offset Band Edge
@849 MHz**





LTE Band 5/26 (824 – 849 MHz) (3 MHz BW)/QPSK/Low Channel 825.5 MHz/Full RB Band Edge @824 MHz



15:37:20 16.07.2018

LTE Band 5/26 (824 – 849 MHz) (3 MHz BW)/QPSK/High Channel 836.5 MHz/Full RB Band Edge @849 MHz



15:33:27 16.07.2018



**LTE Band 5/26 (824 – 849 MHz) (3 MHz BW)/QPSK/Low Channel 825.5 MHz/1 RB 0 offset Band Edge
@824 MHz**

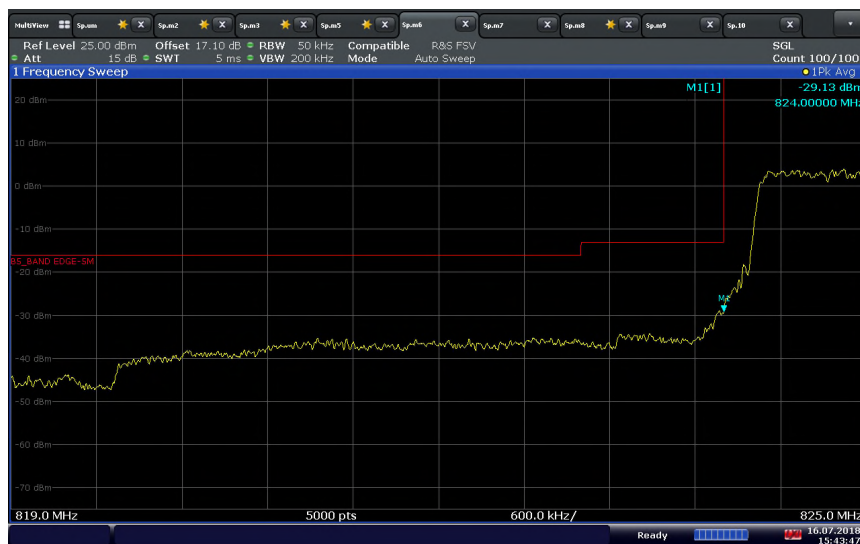


**LTE Band 5/26 (824 – 849 MHz) (3 MHz BW)/QPSK/High Channel 836.5 MHz/1 RB 14 offset Band Edge
@849 MHz**



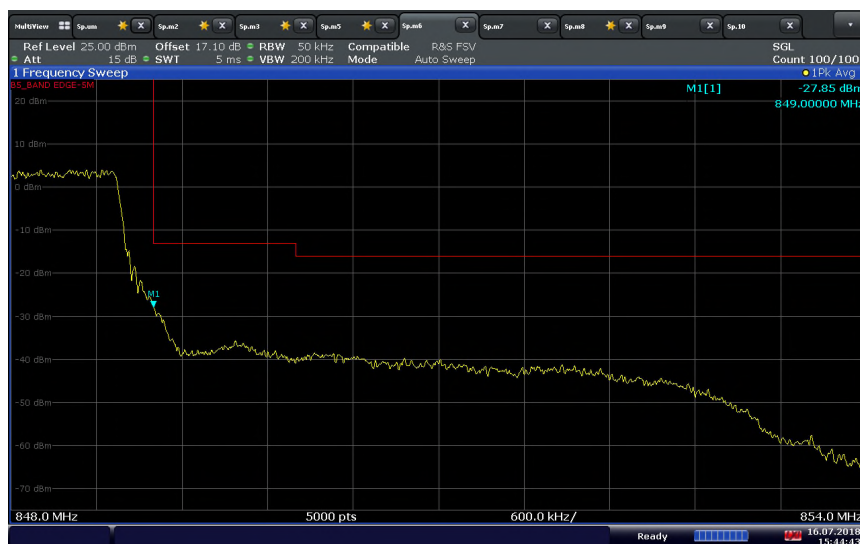


LTE Band 5/26 (824 – 849 MHz) (5 MHz BW)/QPSK/Low Channel 826.5 MHz/Full RB Band Edge @824MHz



15:43:48 16.07.2018

LTE Band 5/26 (824 – 849 MHz) (5 MHz BW)/QPSK/High Channel 846.5 MHz/Full RB Band Edge @849 MHz



15:44:43 16.07.2018



**LTE Band 5/26 (824 – 849 MHz) (5 MHz BW)/QPSK/Low Channel 826.5 MHz/1 RB 0 offset Band Edge
@824MHz**



15:43:21 16.07.2018

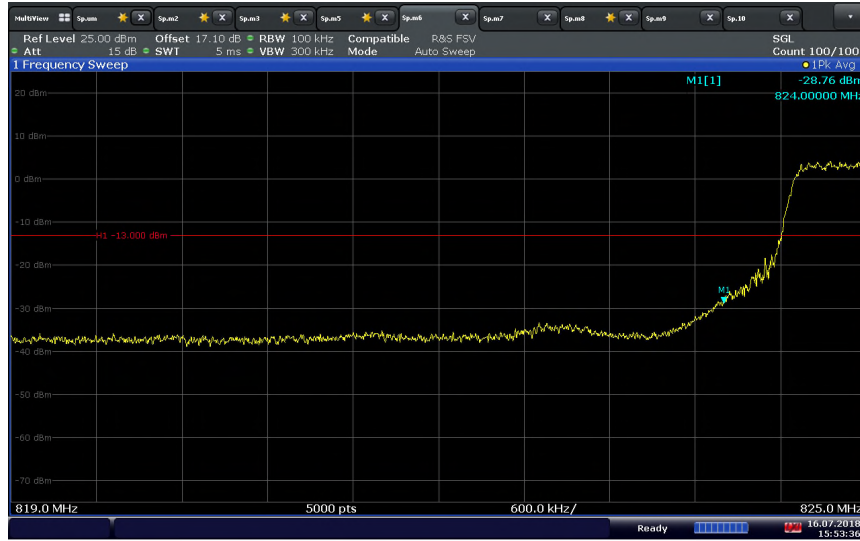
**LTE Band 5/26 (824 – 849 MHz) (5 MHz BW)/QPSK/High Channel 846.5 MHz/1 RB 24 offset Band Edge
@849 MHz**



15:45:14 16.07.2018

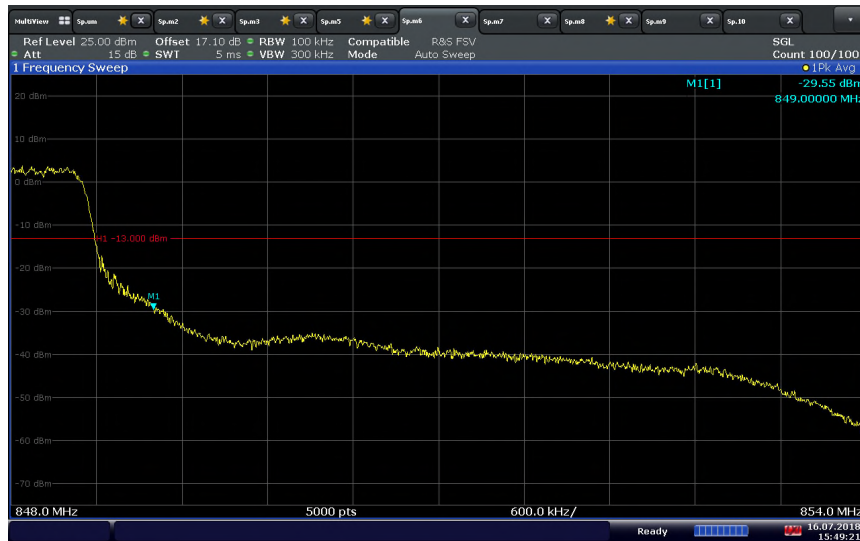


LTE Band 5/26 (824 – 849 MHz) (10 MHz BW)/QPSK/Low Channel 829 MHz/Full RB Band Edge @825 MHz



15:53:37 16.07.2018

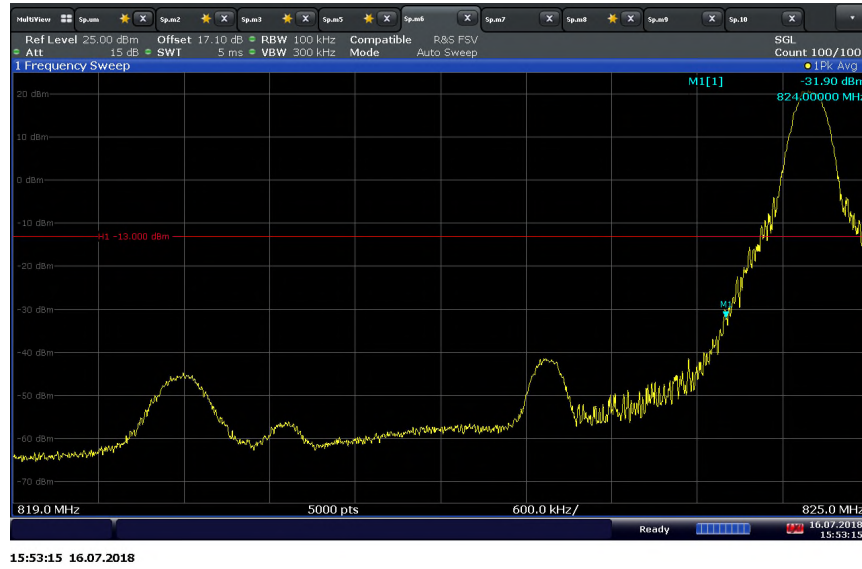
LTE Band 5/26 (824 – 849 MHz) (10 MHz BW)/QPSK/High Channel 844 MHz/Full RB Band Edge @849 MHz



15:49:21 16.07.2018



**LTE Band 5/26 (824 – 849 MHz) (10 MHz BW)/QPSK/Low Channel 829 MHz/1 RB 0 offset Band Edge
@825 MHz**



**LTE Band 5/26 (824 – 849 MHz) (10 MHz BW)/QPSK/High Channel 844 MHz/1 RB 49 offset Band Edge
@849 MHz**





LTE Band 25 (1.4 MHz BW)/QPSK/Low Channel 1850.7 MHz/Full RB Band Edge @1850 MHz



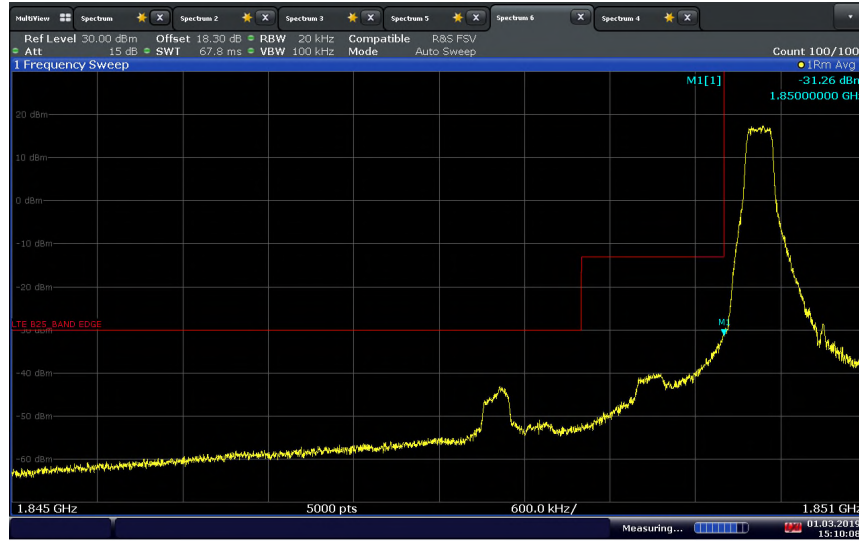
15:10:52 01.03.2019

LTE Band 25 (1.4 MHz BW)/QPSK/High Channel 1914.3 MHz/Full RB Band Edge @1915 MHz



15:05:41 01.03.2019

LTE Band 25 (1.4 MHz BW)/QPSK/Low Channel 1850.7 MHz/1 RB 0 offset Band Edge @1850 MHz



15:10:08 01.03.2019

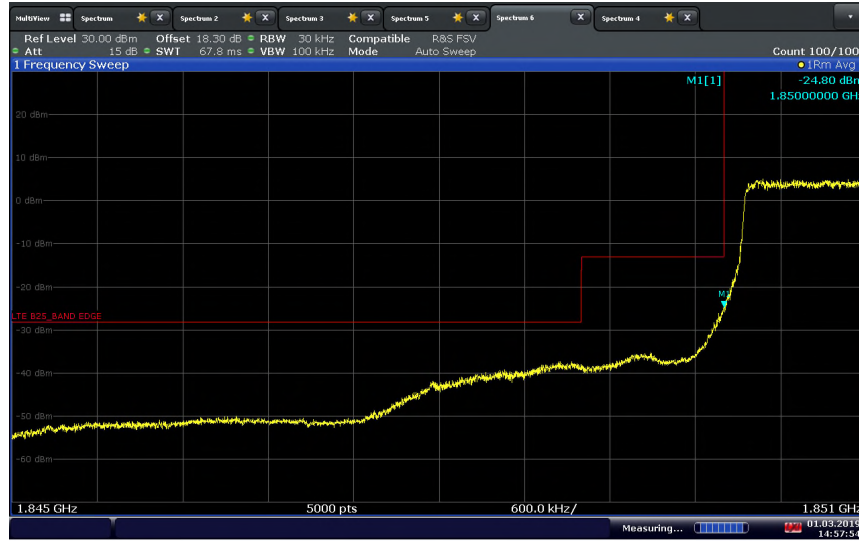
LTE Band 25 (1.4 MHz BW)/QPSK/High Channel 1914.3 MHz/1 RB 5 offset Band Edge @1915 MHz



15:06:30 01.03.2019

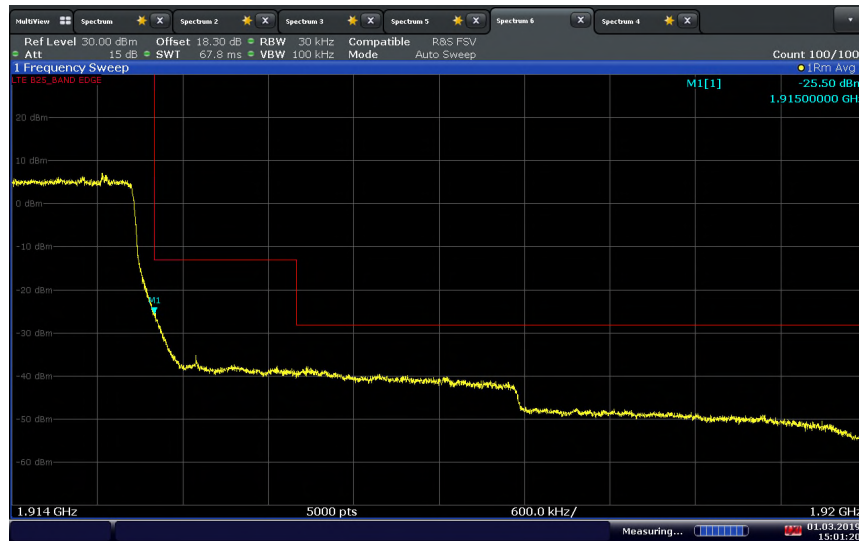


LTE Band 25 (3 MHz BW)/QPSK/Low Channel 1851.5 MHz/Full RB Band Edge @1850 MHz



14:57:55 01.03.2019

LTE Band 25 (3 MHz BW)/QPSK/High Channel 1913.5 MHz/Full RB Band Edge @1915 MHz



15:01:20 01.03.2019



LTE Band 25 (3 MHz BW)/QPSK/Low Channel 1851.5 MHz/1 RB 0 offset Band Edge @1850 MHz



14:58:37 01.03.2019

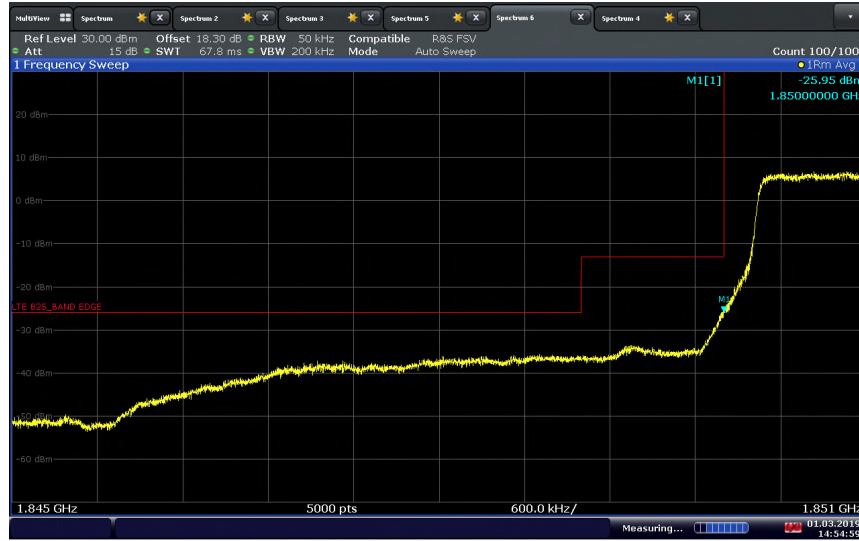
LTE Band 25 (3 MHz BW)/QPSK/High Channel 1913.5 MHz/1 RB 14 offset Band Edge @1915 MHz



15:02:22 01.03.2019

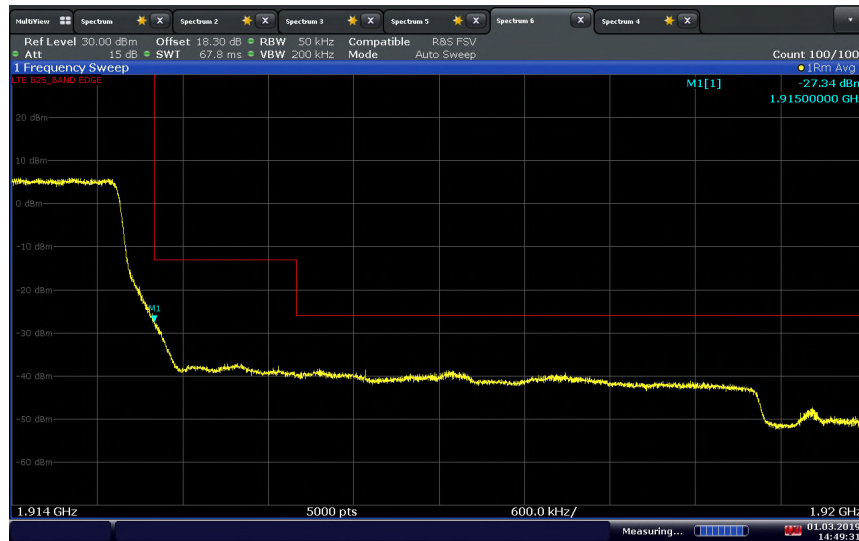


LTE Band 25 (5 MHz BW)/QPSK/Low Channel 1852.5 MHz/Full RB Band Edge @1850 MHz



14:55:00 01.03.2019

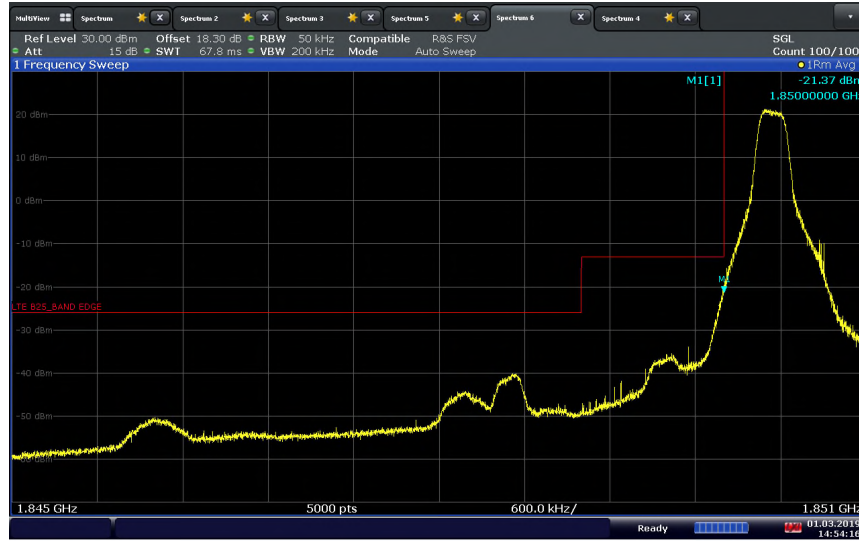
LTE Band 25 (5 MHz BW)/QPSK/High Channel 1912.5 MHz/Full RB Band Edge @1915 MHz



14:49:32 01.03.2019



LTE Band 25 (5 MHz BW)/QPSK/Low Channel 1852.5 MHz/1 RB 0 offset Band Edge @1850 MHz



14:54:16 01.03.2019

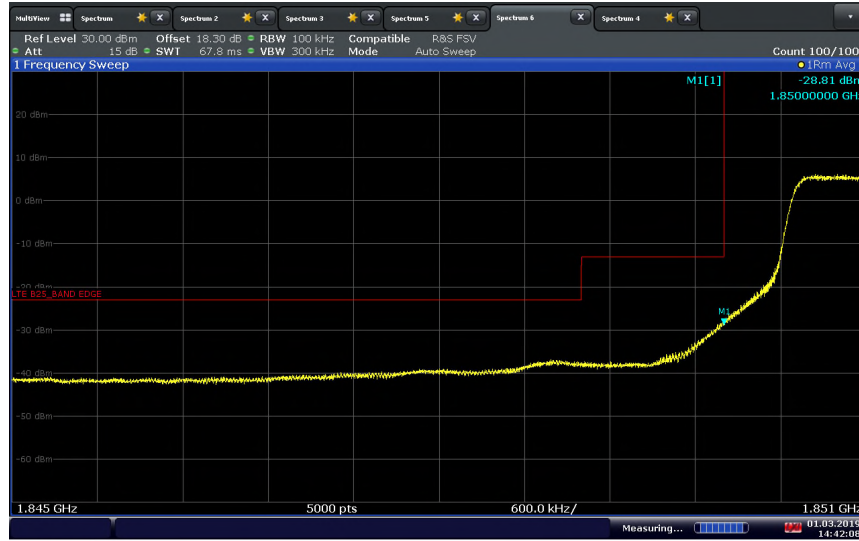
LTE Band 25 (5 MHz BW)/QPSK/High Channel 1912.5 MHz/1 RB 24 offset Band Edge @1915 MHz



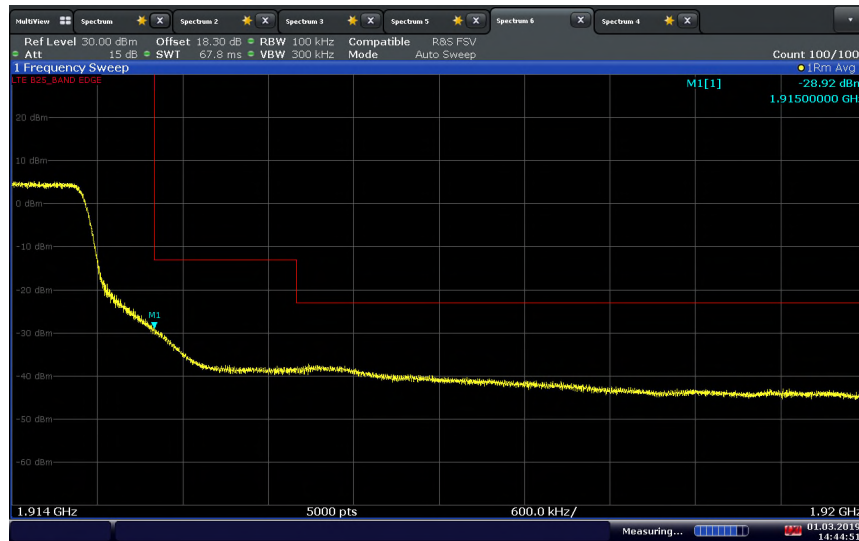
14:52:46 01.03.2019



LTE Band 25 (10 MHz BW)/QPSK/Low Channel 1855 MHz/Full RB Band Edge @1850 MHz

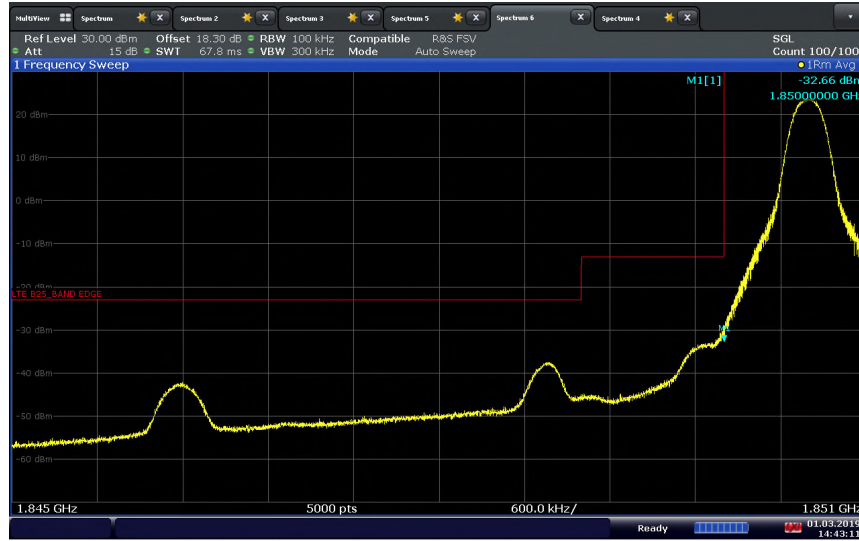


LTE Band 25 (10 MHz BW)/QPSK/High Channel 1910 MHz/Full RB Band Edge @1915 MHz



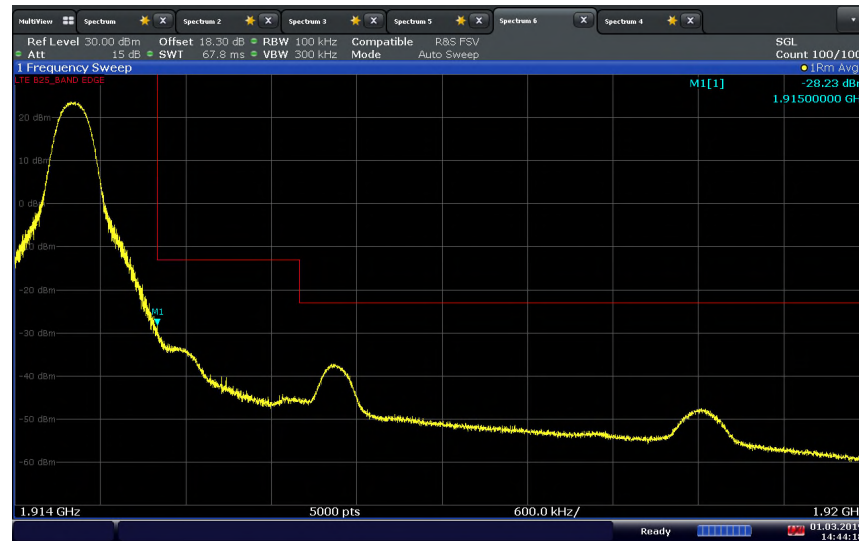


LTE Band 25 (10 MHz BW)/QPSK/Low Channel 1855 MHz/1 RB 0 offset Band Edge @1850 MHz



14:43:12 01.03.2019

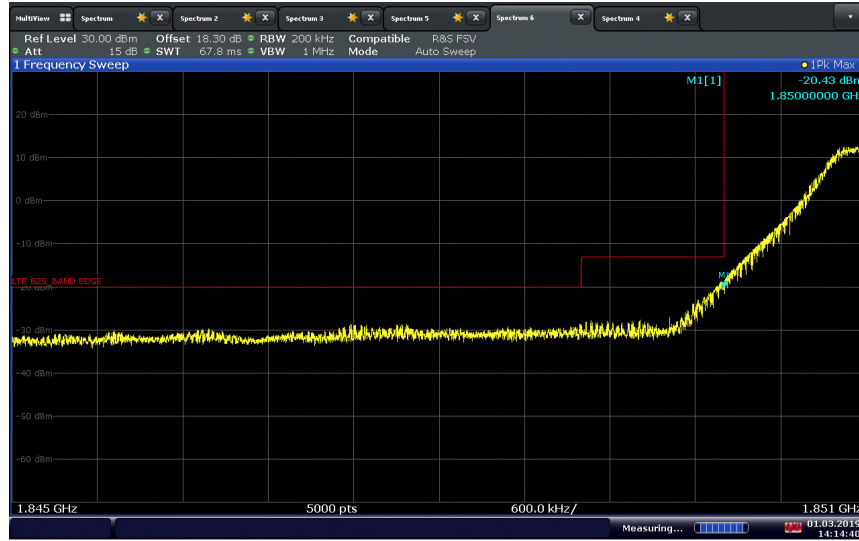
LTE Band 25 (10 MHz BW)/QPSK/High Channel 1910 MHz/1 RB 49 offset Band Edge @1915 MHz



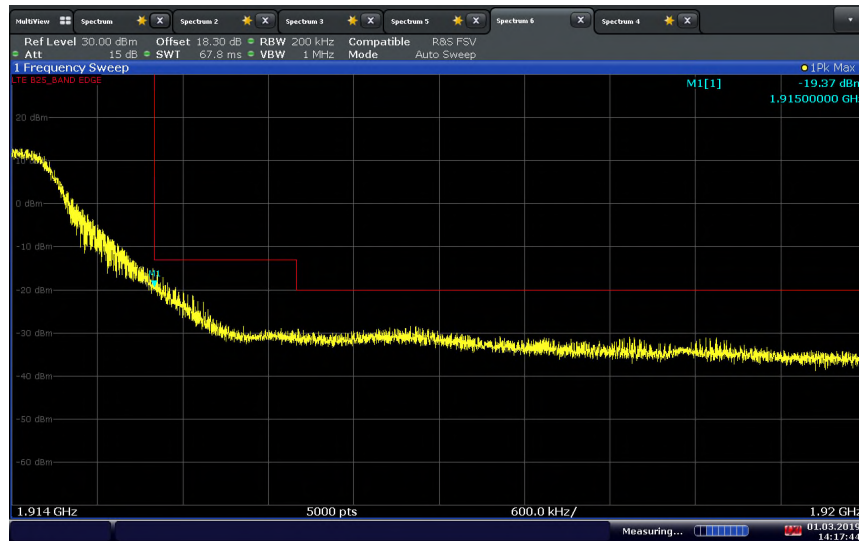
14:44:18 01.03.2019



LTE Band 25 (15 MHz BW)/QPSK/Low Channel 1857.5 MHz/Full RB Band Edge @1850 MHz

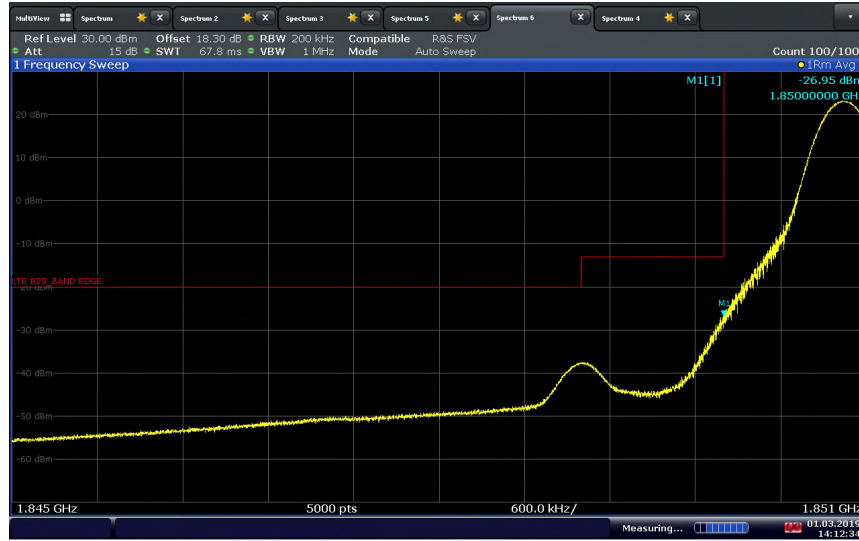


LTE Band 25 (15 MHz BW)/QPSK/High Channel 1907.5 MHz/Full RB Band Edge @1915 MHz

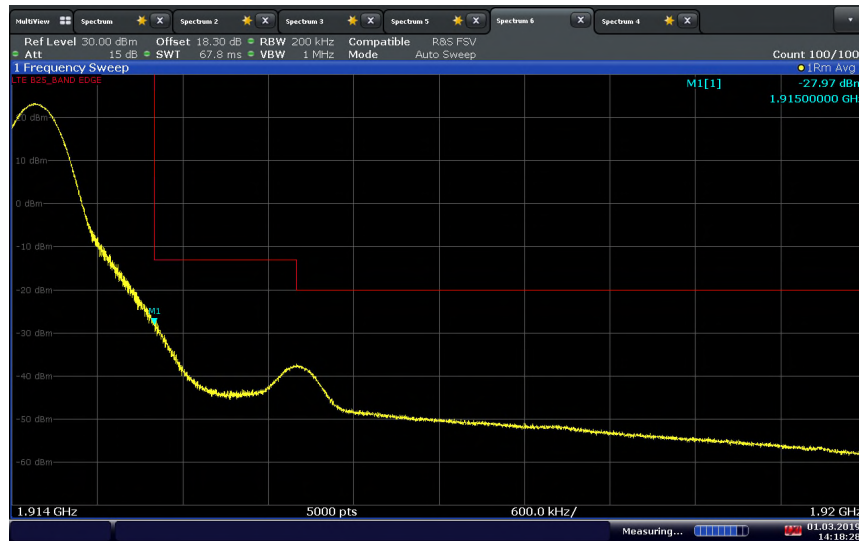




LTE Band 25 (15 MHz BW)/QPSK/Low Channel 1857.5 MHz/1 RB 0 offset Band Edge @1850 MHz

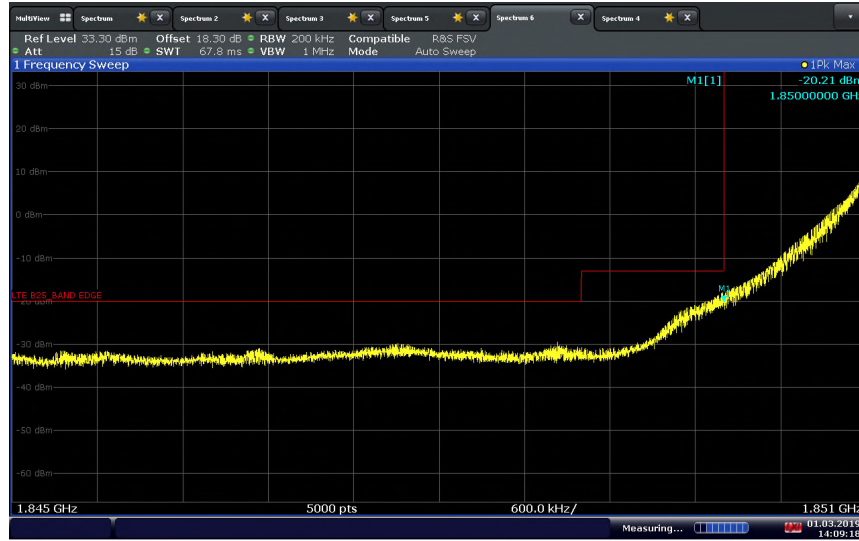


LTE Band 25 (15 MHz BW)/QPSK/High Channel 1907.5 MHz/1 RB 74 offset Band Edge @1915 MHz





LTE Band 25 (20 MHz BW)/QPSK/Low Channel 1860 MHz/Full RB Band Edge @1850 MHz

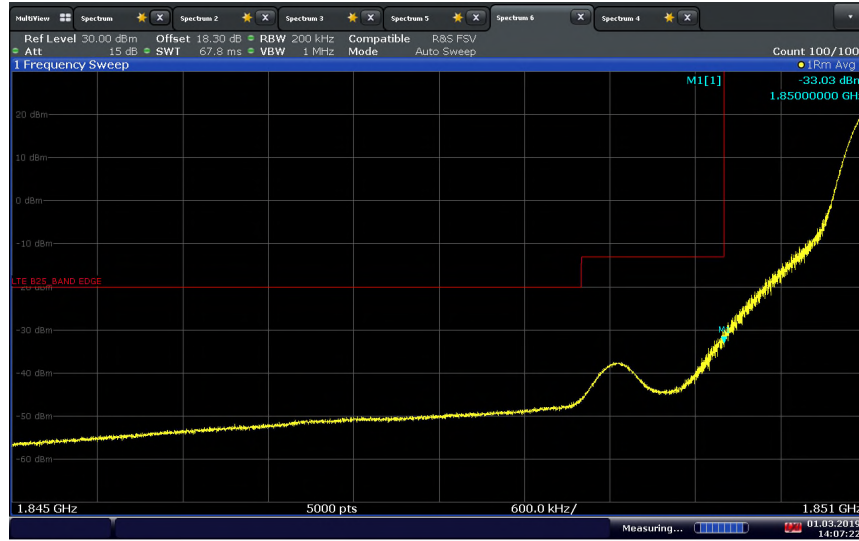


LTE Band 25 (20 MHz BW)/QPSK/High Channel 1905 MHz/Full RB Band Edge @1915 MHz



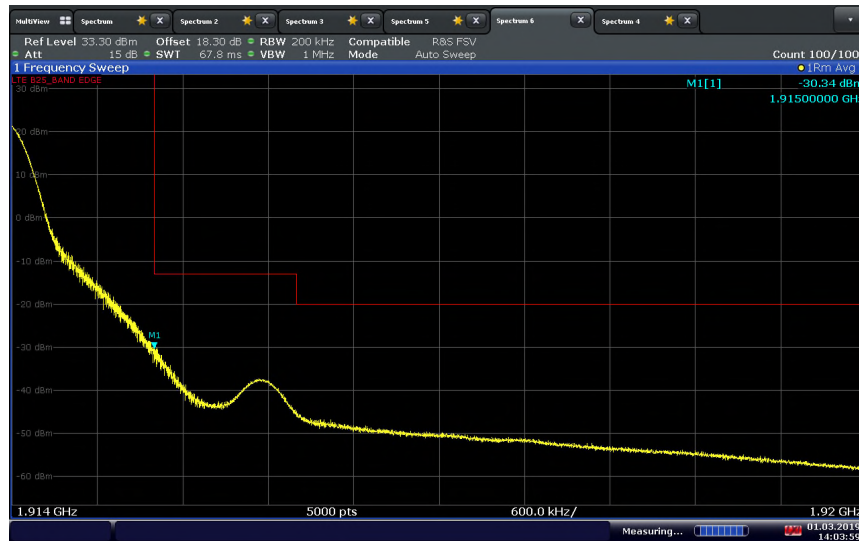


LTE Band 25 (20 MHz BW)/QPSK/Low Channel 1860 MHz/1 RB 0 offset Band Edge @1850 MHz



14:07:23 01.03.2019

LTE Band 25 (20 MHz BW)/QPSK/High Channel 1905 MHz/1 RB 99 offset Band Edge @1915 MHz



14:04:00 01.03.2019



2.7 CONDUCTED SPURIOUS EMISSIONS

2.7.1 Specification Reference

FCC 47 CFR Part 2, Clause 2.1051
FCC 47 CFR Part 22, Clause 22.917(a)(b)
FCC 47 CFR Part 24, Clause 24.238(a)(b)
RSS-132, Clause 5.5
RSS-133, Clause 6.5

2.7.2 Standard Applicable

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

2.7.3 Equipment Under Test and Modification State

Serial No: AT071218B00062 (MIFI8000), AZ280418A00044 (MIFI8800L) / Test Configuration A

2.7.4 Date of Test/Initial of test personnel who performed the test

March 01, 2019 / XYZ
June 18 and 21, 2018 / XYZ

2.7.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.7.6 Environmental Conditions/ Test Location

Test performed at TÜV SÜD America Inc. Rancho Bernardo facility

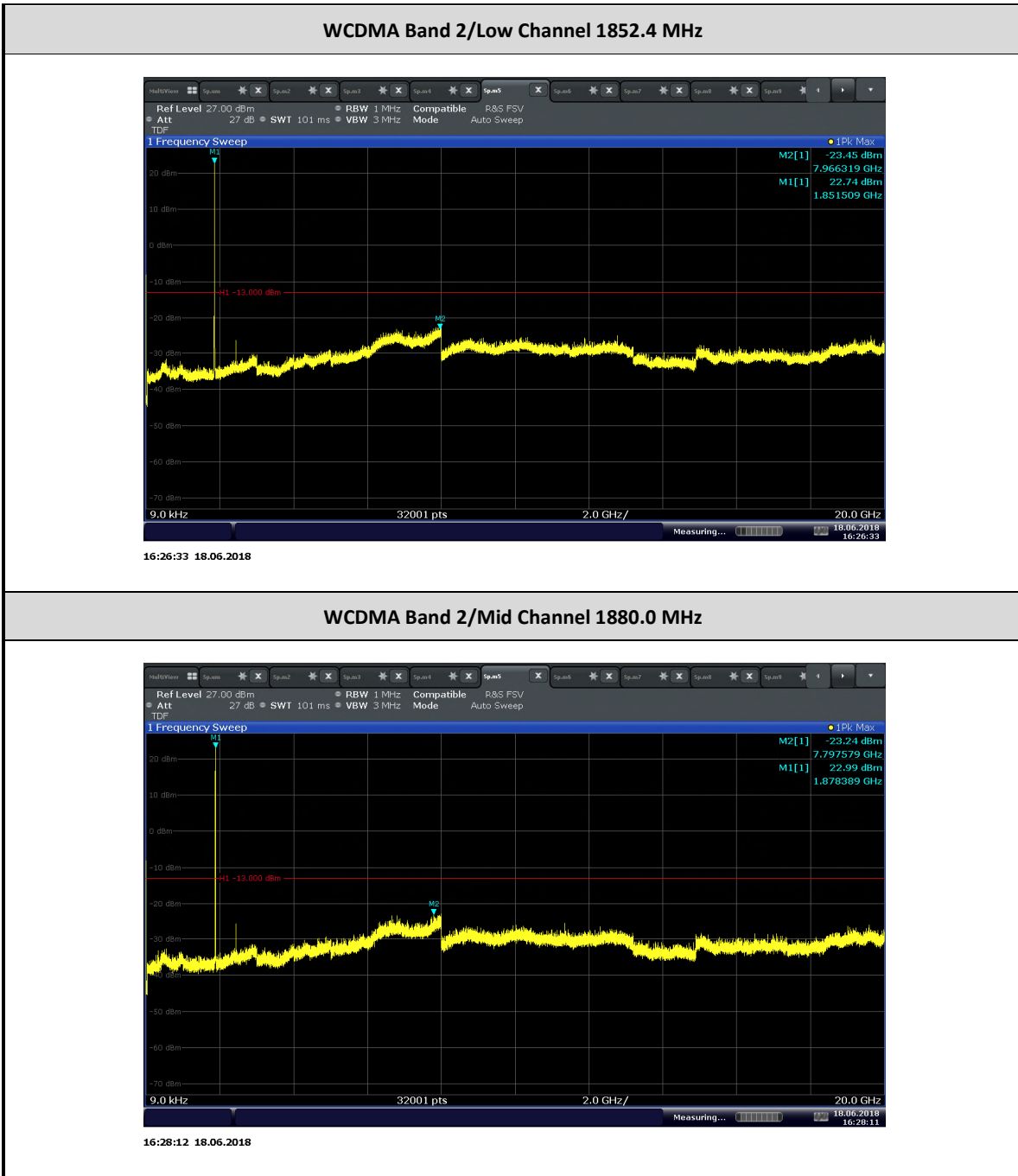
| | | |
|---------------------|----------|----------------|
| Ambient Temperature | 21.6 °C | 24.0 - 24.3 °C |
| Relative Humidity | 54.6 % | 44.0 - 55.9% |
| ATM Pressure | 99.4 kPa | 99.0 - 99.1kPa |

2.7.7 Additional Observations

- This is a conducted test.
- The spectrum was searched from 9 kHz to the 10th harmonic.
- The path loss was measured and entered as a transducer factor (TDF).
- For WCDMA/LTE Band 5 and 26, RBW was set to 100kHz.
- For WCDMA/LTE Band 2 and 25, RBW was set to 1 MHz.
- Low, Middle and High channels on all channel bandwidth and modulation are verified. Only worst case configuration for all technologies presented in this test report.

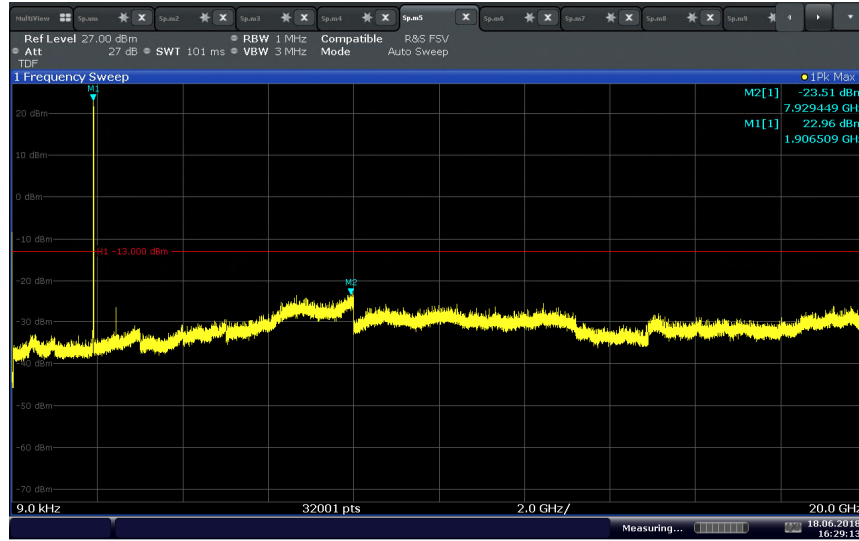


2.7.8 Example Test Results



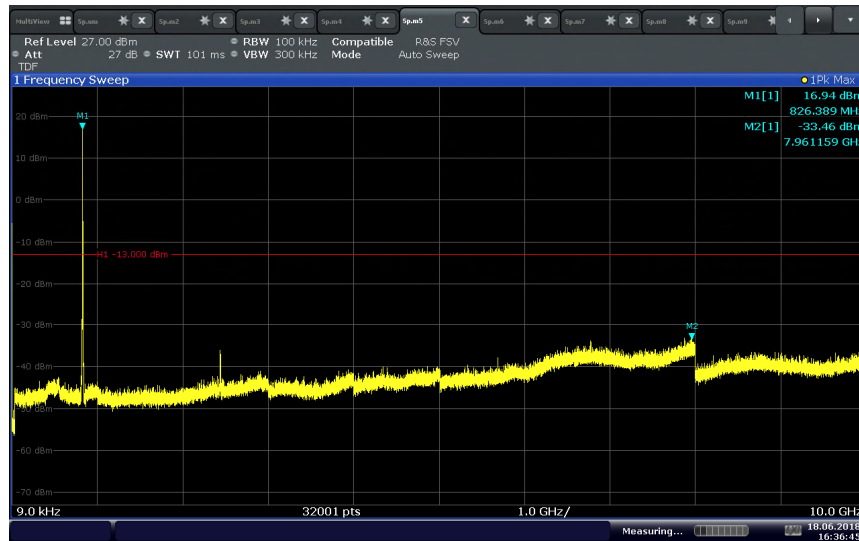


WCDMA Band 2/High Channel 1907.6 MHz



16:29:14 18.06.2018

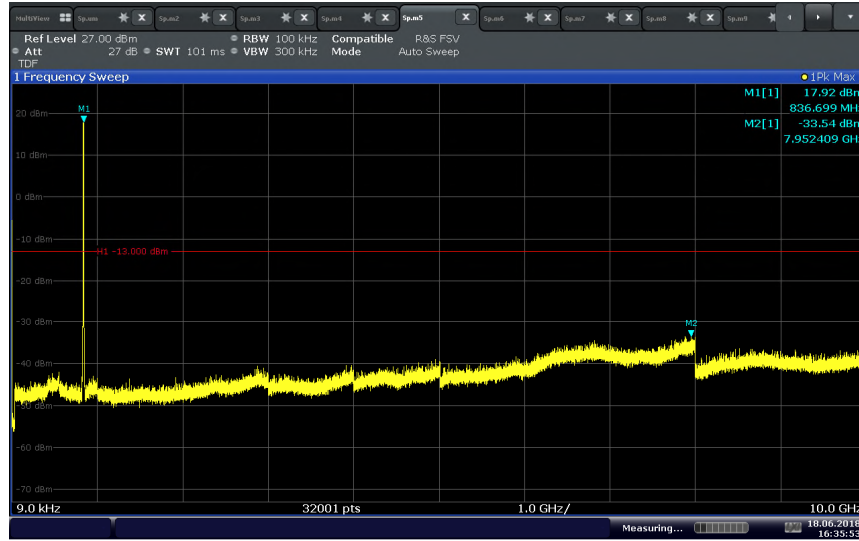
WCDMA Band 5/Low Channel 826.4 MHz



16:36:46 18.06.2018

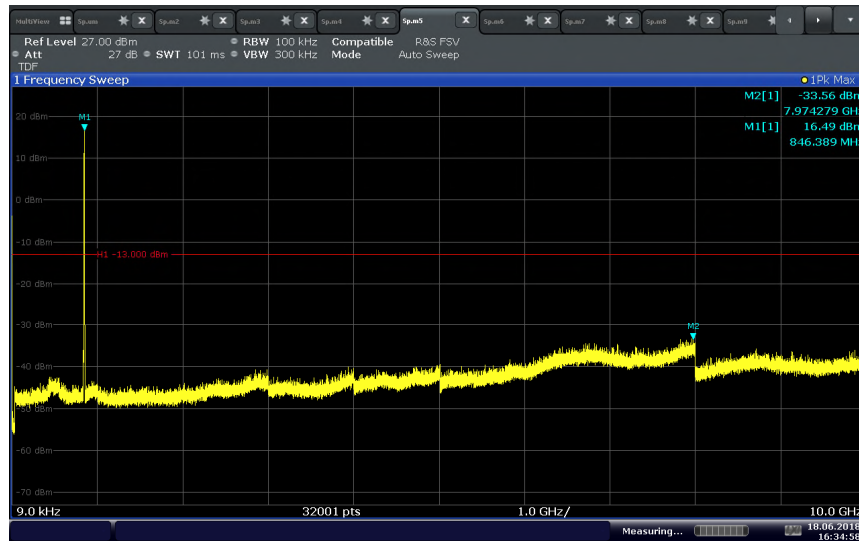


WCDMA Band 5/Mid Channel 836.6 MHz



16:35:53 18.06.2018

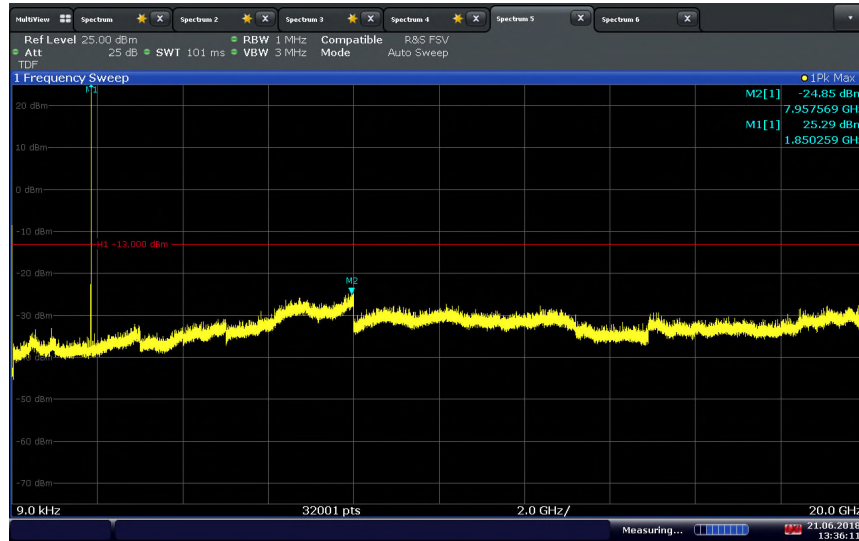
WCDMA Band 5/High Channel 846.6 MHz



16:34:58 18.06.2018

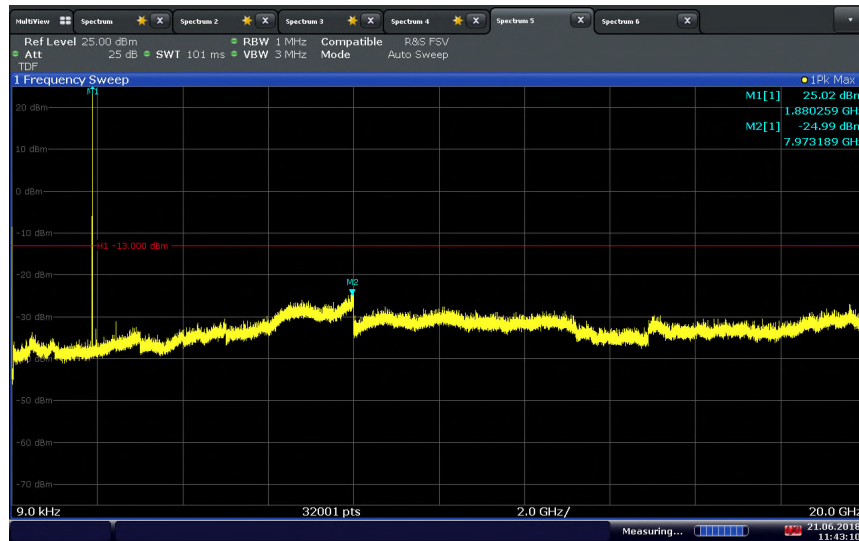


LTE Band 2 (1.4 MHz BW)/QPSK/Low Channel 1850.7 MHz



13:36:12 21.06.2018

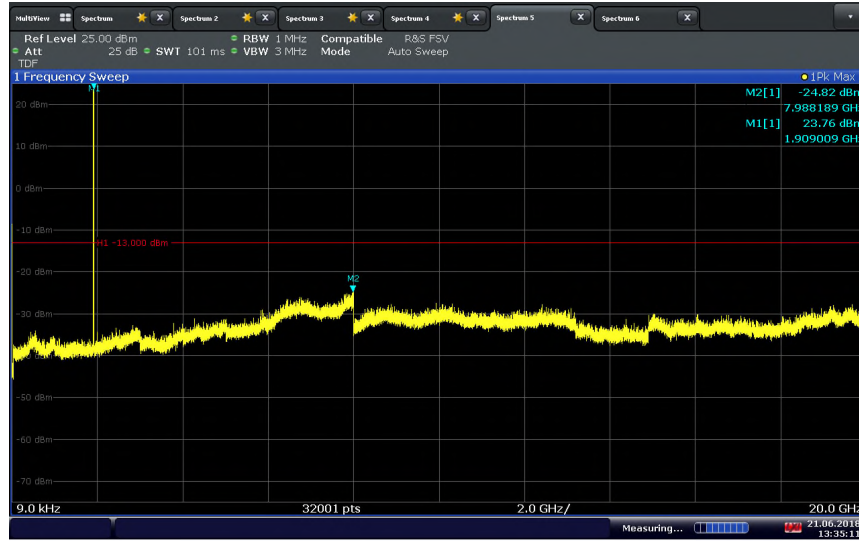
LTE Band 2 (1.4 MHz BW)/QPSK/Mid Channel 1880.0 MHz



11:43:11 21.06.2018

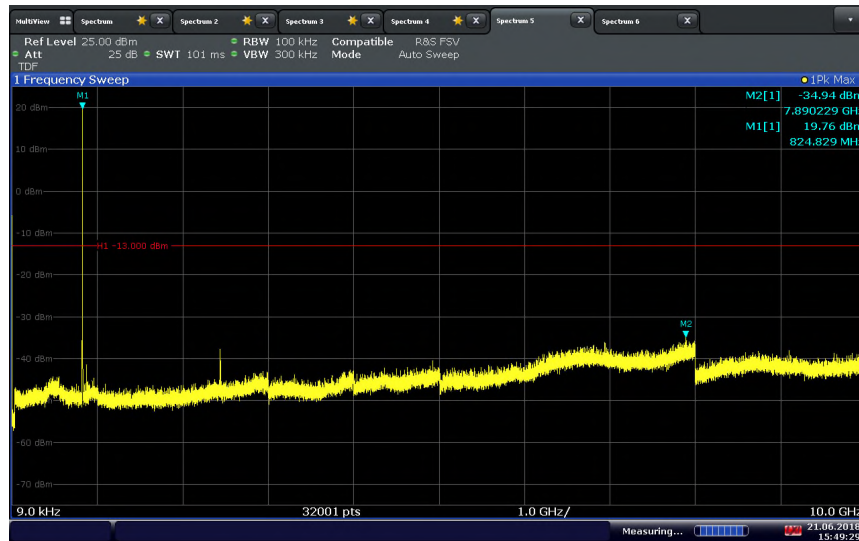


LTE Band 2 (1.4 MHz BW)/QPSK/High Channel 1909.3 MHz



13:35:12 21.06.2018

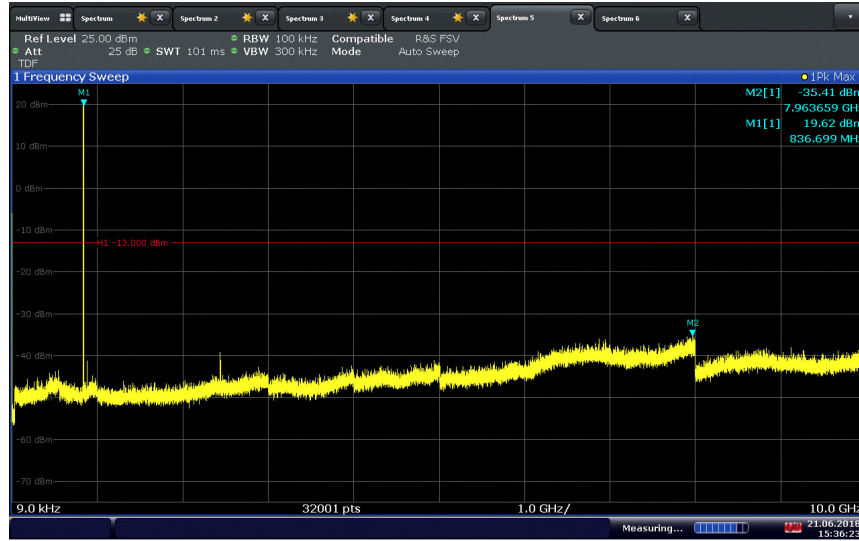
LTE Band 5/26 (824 – 849 MHz) (1.4 MHz BW)/QPSK/Low Channel 824.7 MHz



15:49:30 21.06.2018

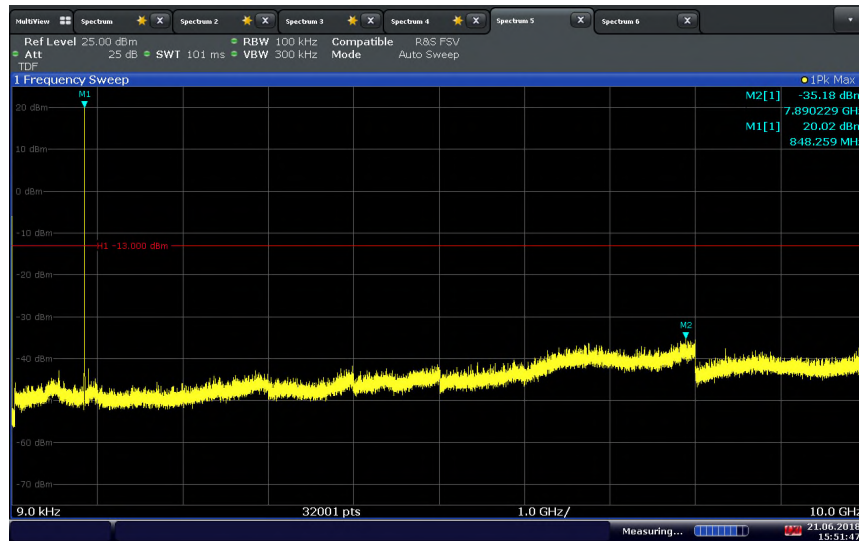


LTE Band 5/26 (824 – 849 MHz) (1.4 MHz BW)/QPSK/Mid Channel 836.5 MHz



15:36:25 21.06.2018

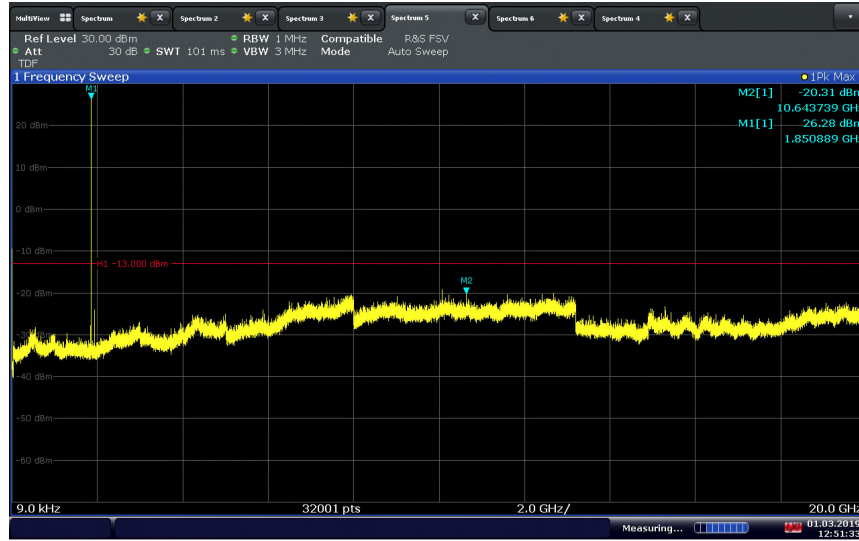
LTE Band 5/26 (824 – 849 MHz) (1.4 MHz BW)/QPSK/High Channel 848.3 MHz



15:51:48 21.06.2018

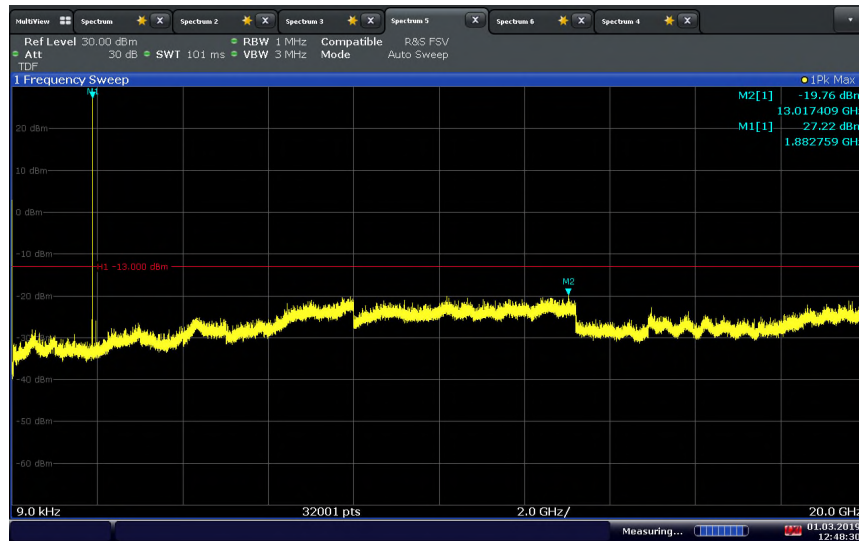


LTE Band 25 (1.4 MHz BW)/QPSK/Low Channel 1850.7 MHz



12:51:34 01.03.2019

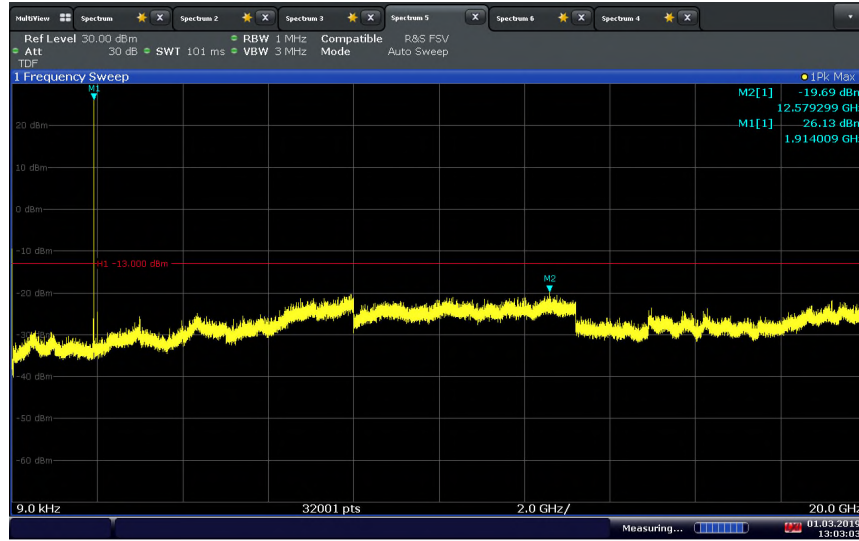
LTE Band 25 (1.4 MHz BW)/QPSK/Mid Channel 1882.5 MHz



12:48:31 01.03.2019



LTE Band 25 (1.4 MHz BW)/QPSK/High Channel 1914.3 MHz



13:03:03 01.03.2019



2.8 FIELD STRENGTH OF SPURIOUS RADIATION

2.8.1 Specification Reference

FCC 47 CFR Part 2, Clause 2.1053
FCC 47 CFR Part 22, Clause 22.917(a)
FCC 47 CFR Part 24, Clause 24.238(a)
RSS-132, Clause 5.5
RSS-133, Clause 6.5

2.8.2 Standard Applicable

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

2.8.3 Equipment Under Test and Modification State

Serial No: AT071218B00062 (MIFI8000), AZ280418A00044 (MIFI8800L) / Test Configuration B

2.8.4 Date of Test/Initial of test personnel who performed the test

March 29 and April 01, 2019 / XYZ
July 6 to 18, 2018 / XYZ

2.8.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.8.6 Environmental Conditions/ Test Location

Test performed at TÜV SÜD America Inc. Rancho Bernardo facility

| | |
|---------------------|-----------------|
| Ambient Temperature | 20.6 - 26.0 °C |
| Relative Humidity | 29.6 - 57.2 % |
| ATM Pressure | 98.7 - 99.7 kPa |

2.8.7 Additional Observations

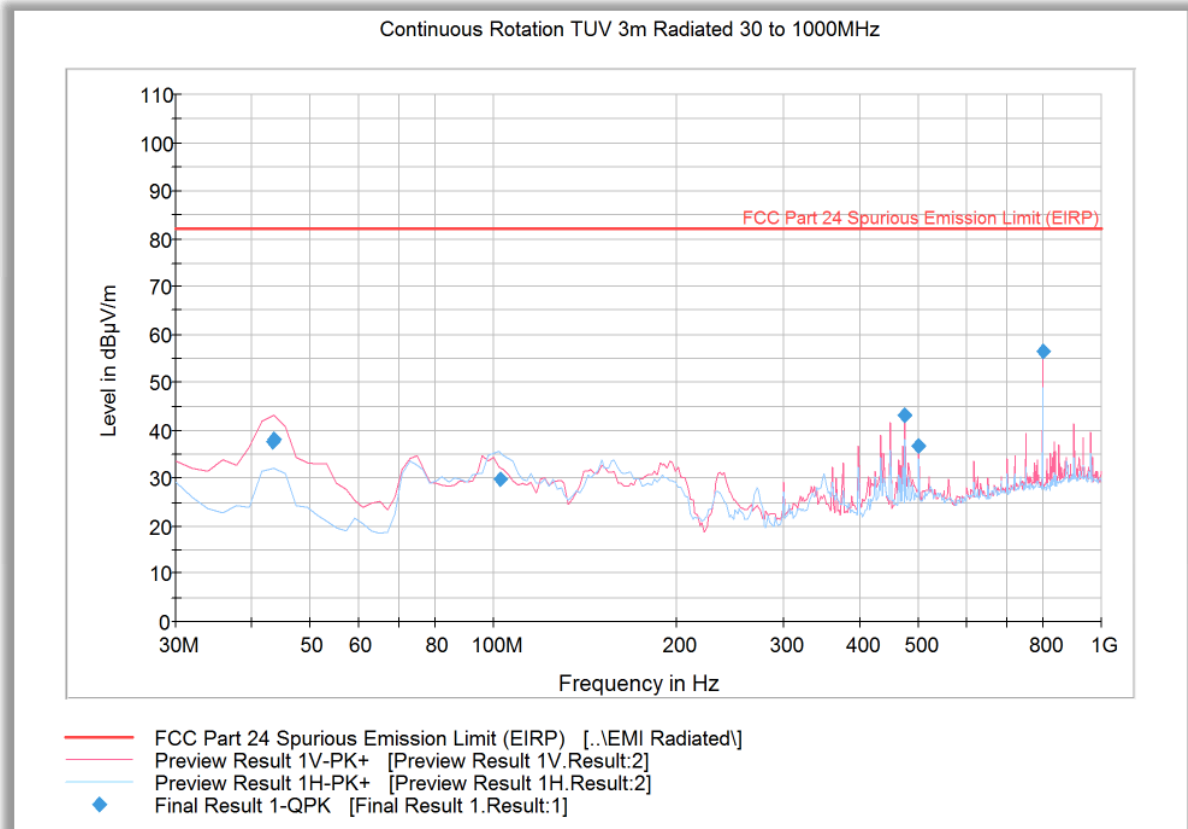
- This is a radiated test using substitution method as per Unwanted Emissions: Radiated Spurious method of measurement of ANSI/TIA/EIA-603-C 2004, August 17, 2004.
- Emissions within 6dB of the limit will be proven by substitution method.
- This is cabinet spurious emissions testing. Main antenna port was terminated during the test. Fundamental frequency measurement will be ignored for this test.
- Only the worst case configuration presented in this test report.
- Only noise floor measurements observed above 18GHz.
- Measurement was done using EMC32 automated software. Reported level is the actual level with all the correction factors factored in. Correction Factor column is for informational purposes only.



2.8.8 Test Results

Compliant. See attached plots.

2.8.9 Radiated Emission Test Results Below 1GHz_Worst Case Configuration_WCDMA Band 2 Mid Channel

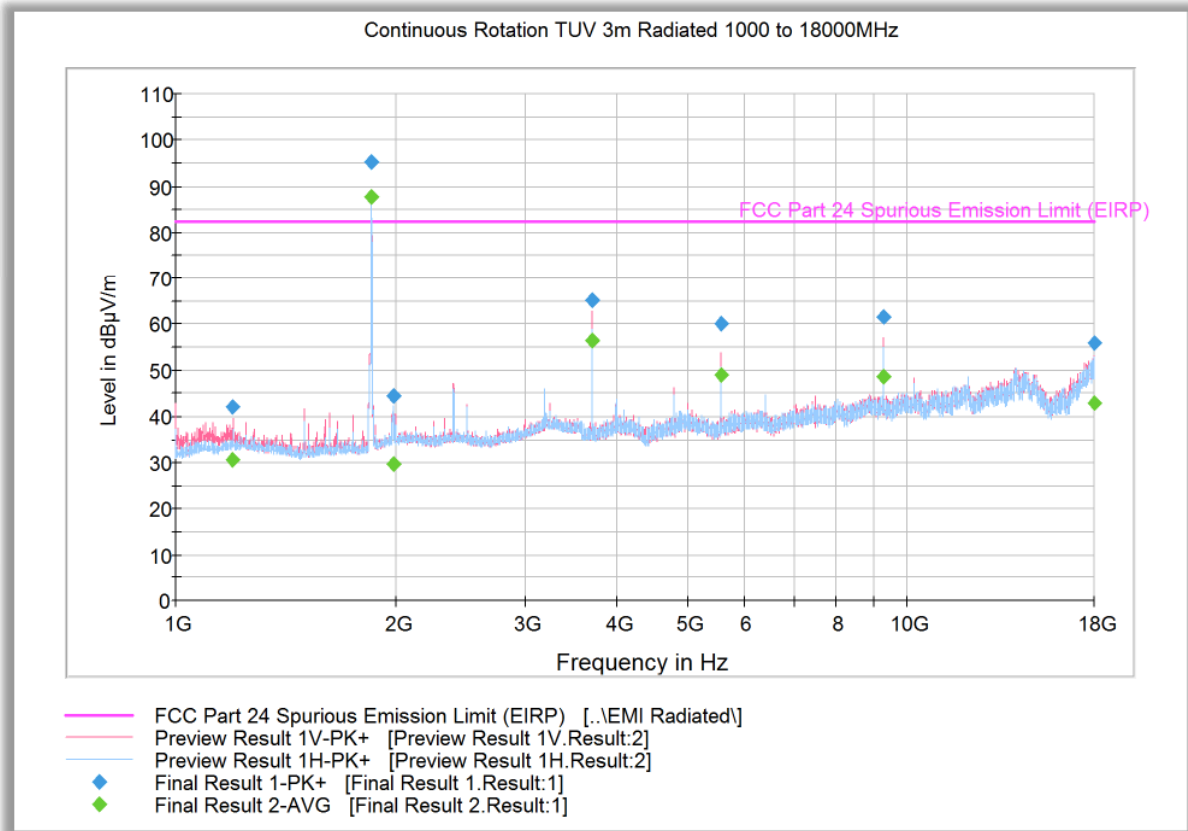


Quasi Peak Data

| Frequency (MHz) | QuasiPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|--------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 43.287214 | 37.6 | 1000.0 | 120.000 | 100.0 | V | 126.0 | -13.6 | 44.6 | 82.2 |
| 43.463327 | 38.1 | 1000.0 | 120.000 | 100.0 | V | 198.0 | -13.6 | 44.2 | 82.2 |
| 102.643848 | 29.8 | 1000.0 | 120.000 | 220.0 | H | 191.0 | -14.9 | 52.5 | 82.2 |
| 474.990301 | 43.0 | 1000.0 | 120.000 | 196.0 | V | 113.0 | -1.4 | 39.2 | 82.2 |
| 499.980842 | 36.8 | 1000.0 | 120.000 | 170.0 | V | 131.0 | -1.6 | 45.4 | 82.2 |
| 800.003447 | 56.4 | 1000.0 | 120.000 | 105.0 | V | 178.0 | 4.1 | 25.9 | 82.2 |



2.8.10 Radiated Emission Test Results Above 1GHz_ Worst Case Configuration_WCDMA Band 2 Low Channel



Peak Data

| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|----------------------|----------------|
| 1195.366667 | 42.1 | 1000.0 | 1000.000 | 170.6 | V | 194.0 | -9.5 | 40.2 | 82.2 |
| 1853.433333 | 95.3 | 1000.0 | 1000.000 | 103.7 | V | 208.0 | -6.8 | Fundamental Carrier* | |
| 1981.466667 | 44.6 | 1000.0 | 1000.000 | 99.7 | V | 313.0 | -6.1 | 37.6 | 82.2 |
| 3703.200000 | 65.2 | 1000.0 | 1000.000 | 102.7 | V | 154.0 | 0.4 | 17.1 | 82.2 |
| 5559.833333 | 60.1 | 1000.0 | 1000.000 | 228.4 | V | 163.0 | 4.1 | 22.2 | 82.2 |
| 9265.366667 | 61.7 | 1000.0 | 1000.000 | 242.4 | V | 184.0 | 9.6 | 20.5 | 82.2 |
| 17999.233333 | 55.9 | 1000.0 | 1000.000 | 151.2 | V | 106.0 | 21.4 | 26.3 | 82.2 |

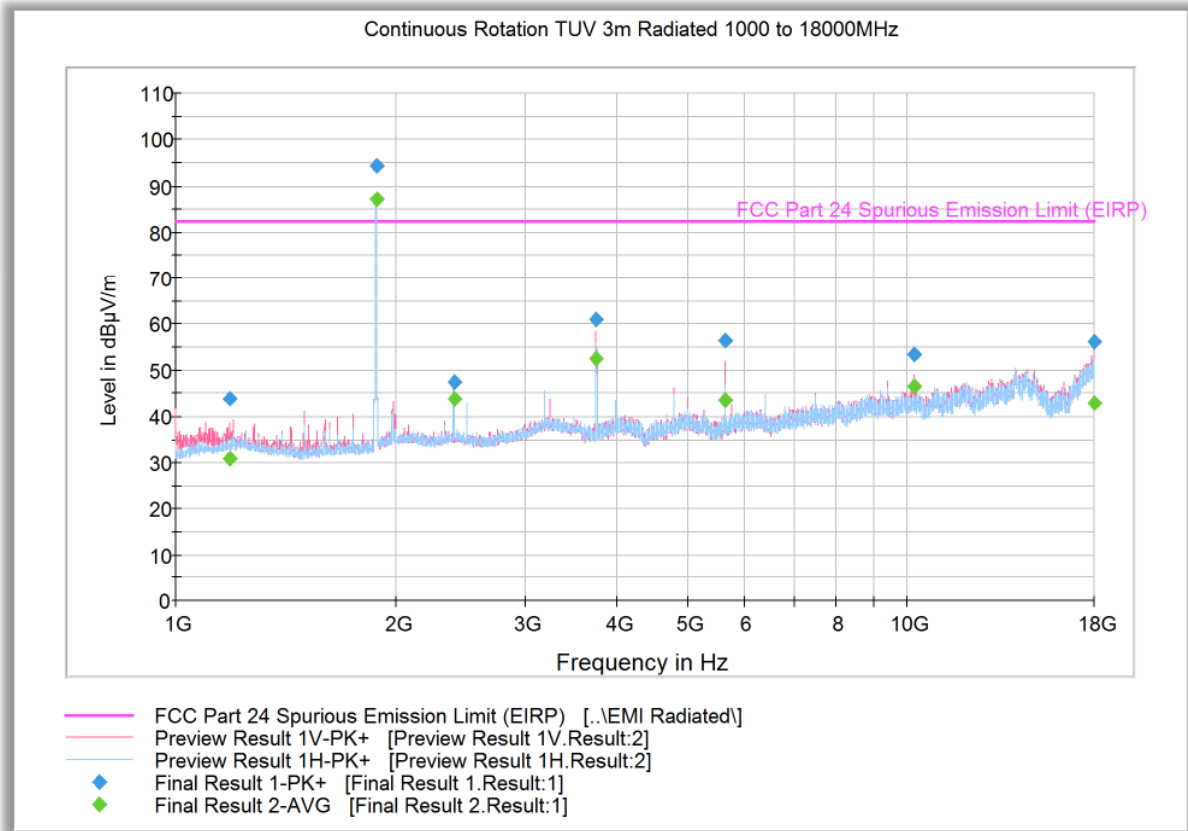
Average Data

| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|----------------------|----------------|
| 1195.366667 | 30.6 | 1000.0 | 1000.000 | 170.6 | V | 194.0 | -9.5 | 51.6 | 82.2 |
| 1853.433333 | 87.7 | 1000.0 | 1000.000 | 103.7 | V | 208.0 | -6.8 | Fundamental Carrier* | |
| 1981.466667 | 29.7 | 1000.0 | 1000.000 | 99.7 | V | 313.0 | -6.1 | 52.5 | 82.2 |
| 3703.200000 | 56.6 | 1000.0 | 1000.000 | 102.7 | V | 154.0 | 0.4 | 25.6 | 82.2 |
| 5559.833333 | 49.0 | 1000.0 | 1000.000 | 228.4 | V | 163.0 | 4.1 | 33.3 | 82.2 |
| 9265.366667 | 48.6 | 1000.0 | 1000.000 | 242.4 | V | 184.0 | 9.6 | 33.7 | 82.2 |
| 17999.233333 | 42.8 | 1000.0 | 1000.000 | 151.2 | V | 106.0 | 21.4 | 39.4 | 82.2 |

* This is the fundamental frequency not part of spurious emission evaluation. Data provided for information purpose only.



2.8.11 Radiated Emission Test Results Above 1GHz_ Worst Case Configuration_WCDMA Band 2 Middle Channel



Peak Data

| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|----------------------|----------------|
| 1185.533333 | 43.9 | 1000.0 | 1000.000 | 151.6 | V | 189.0 | -9.6 | 38.3 | 82.2 |
| 1880.800000 | 94.4 | 1000.0 | 1000.000 | 123.7 | H | -1.0 | -6.5 | Fundamental Carrier* | |
| 2399.866667 | 47.5 | 1000.0 | 1000.000 | 102.7 | H | 217.0 | -4.8 | 34.7 | 82.2 |
| 3761.566667 | 61.0 | 1000.0 | 1000.000 | 103.7 | V | 152.0 | 0.9 | 21.2 | 82.2 |
| 5643.866667 | 56.6 | 1000.0 | 1000.000 | 337.1 | V | 178.0 | 4.1 | 25.6 | 82.2 |
| 10199.833333 | 53.4 | 1000.0 | 1000.000 | 209.4 | V | 98.0 | 10.6 | 28.8 | 82.2 |
| 17996.733333 | 56.1 | 1000.0 | 1000.000 | 112.7 | V | 196.0 | 21.4 | 26.1 | 82.2 |

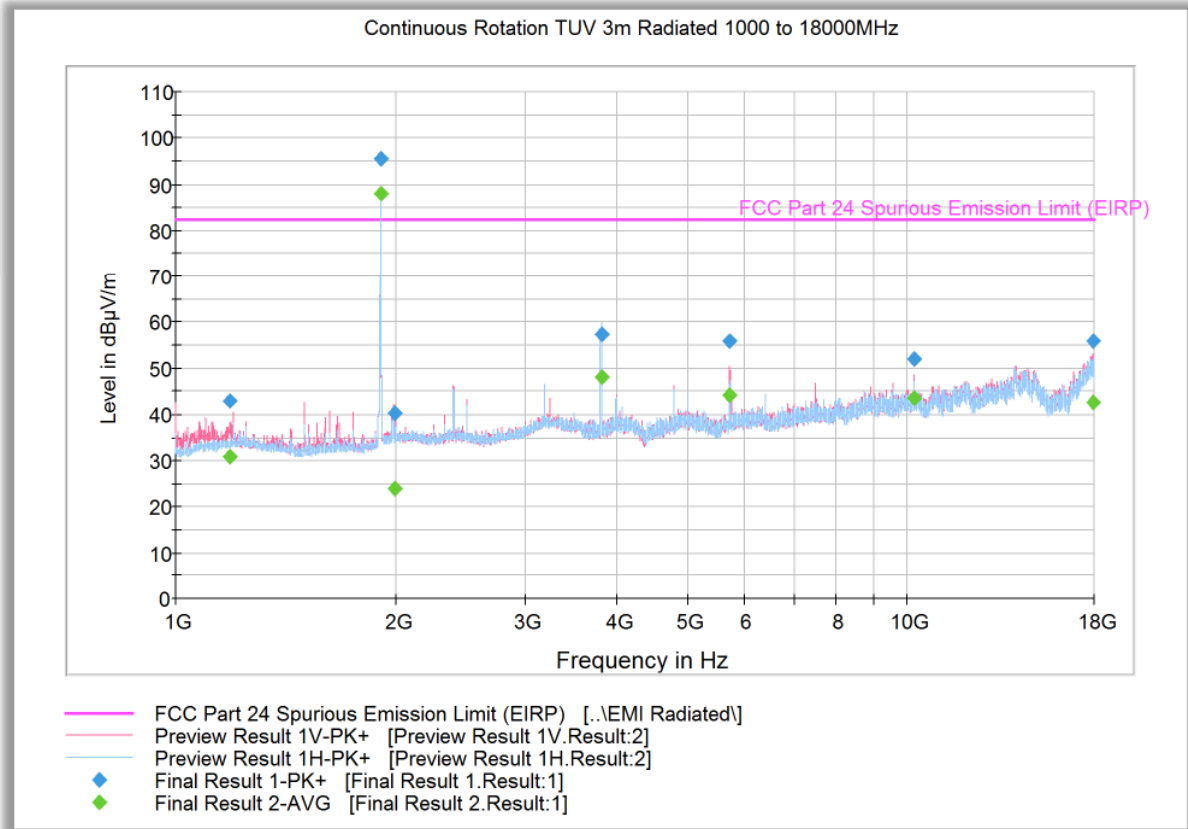
Average Data

| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|----------------------|----------------|
| 1185.533333 | 31.0 | 1000.0 | 1000.000 | 151.6 | V | 189.0 | -9.6 | 51.2 | 82.2 |
| 1880.800000 | 87.2 | 1000.0 | 1000.000 | 123.7 | H | -1.0 | -6.5 | Fundamental Carrier* | |
| 2399.866667 | 43.8 | 1000.0 | 1000.000 | 102.7 | H | 217.0 | -4.8 | 38.5 | 82.2 |
| 3761.566667 | 52.5 | 1000.0 | 1000.000 | 103.7 | V | 152.0 | 0.9 | 29.7 | 82.2 |
| 5643.866667 | 43.7 | 1000.0 | 1000.000 | 337.1 | V | 178.0 | 4.1 | 38.6 | 82.2 |
| 10199.833333 | 46.7 | 1000.0 | 1000.000 | 209.4 | V | 98.0 | 10.6 | 35.5 | 82.2 |
| 17996.733333 | 42.8 | 1000.0 | 1000.000 | 112.7 | V | 196.0 | 21.4 | 39.4 | 82.2 |

* This is the fundamental frequency not part of spurious emission evaluation. Data provided for information purpose only.



2.8.12 Radiated Emission Test Results Above 1GHz_ Worst Case Configuration_WCDMA Band 2 High Channel



Peak Data

| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|----------------------|----------------|
| 1185.100000 | 43.1 | 1000.0 | 1000.000 | 182.6 | V | 190.0 | -9.6 | 39.2 | 82.2 |
| 1906.866667 | 95.5 | 1000.0 | 1000.000 | 115.7 | V | 0.0 | -6.3 | Fundamental Carrier* | |
| 1990.100000 | 40.4 | 1000.0 | 1000.000 | 102.7 | V | -19.0 | -6.1 | 41.8 | 82.2 |
| 3816.700000 | 57.5 | 1000.0 | 1000.000 | 137.7 | H | 196.0 | 1.1 | 24.8 | 82.2 |
| 5719.166667 | 55.8 | 1000.0 | 1000.000 | 242.4 | V | 177.0 | 3.9 | 26.4 | 82.2 |
| 10200.200000 | 52.0 | 1000.0 | 1000.000 | 204.5 | V | 97.0 | 10.6 | 30.3 | 82.2 |
| 17956.900000 | 55.9 | 1000.0 | 1000.000 | 102.7 | V | 164.0 | 21.4 | 26.3 | 82.2 |

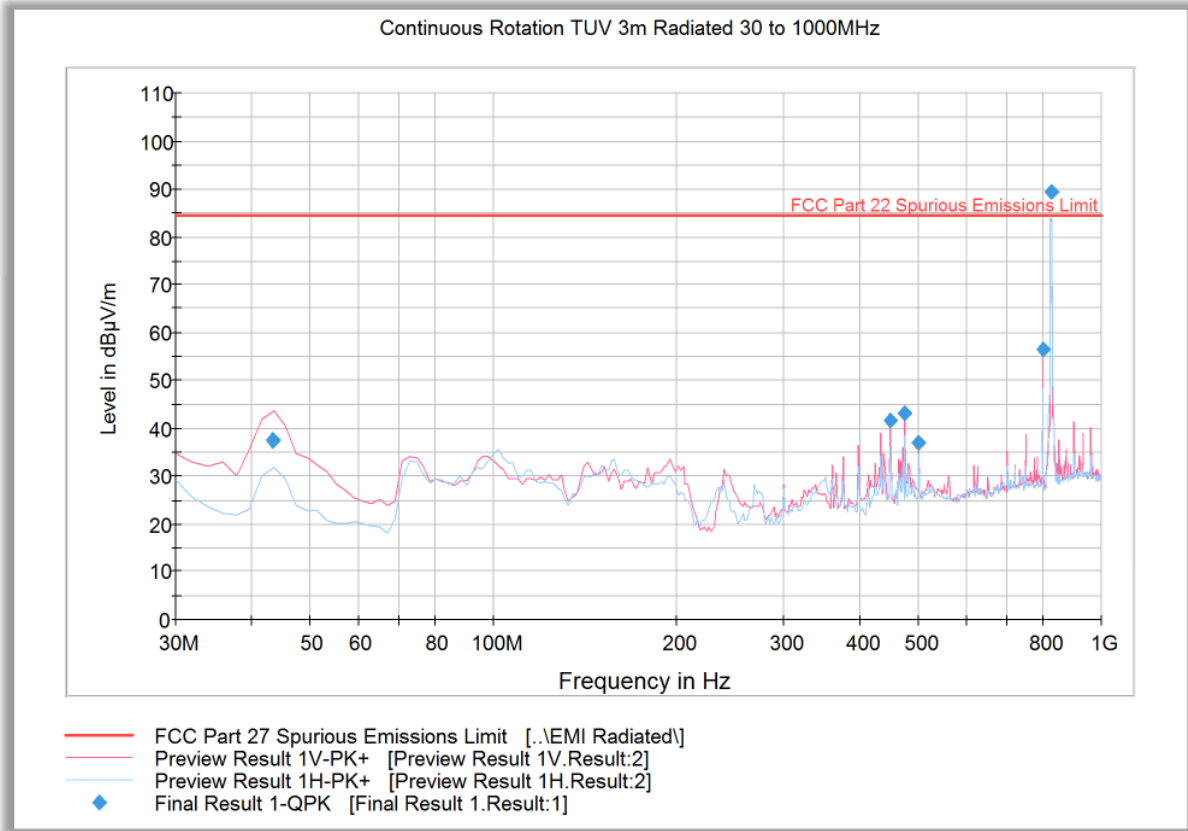
Average Data

| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|----------------------|----------------|
| 1185.100000 | 30.8 | 1000.0 | 1000.000 | 182.6 | V | 190.0 | -9.6 | 51.4 | 82.2 |
| 1906.866667 | 88.2 | 1000.0 | 1000.000 | 115.7 | V | 0.0 | -6.3 | Fundamental Carrier* | |
| 1990.100000 | 24.2 | 1000.0 | 1000.000 | 102.7 | V | -19.0 | -6.1 | 58.0 | 82.2 |
| 3816.700000 | 48.2 | 1000.0 | 1000.000 | 137.7 | H | 196.0 | 1.1 | 34.0 | 82.2 |
| 5719.166667 | 44.2 | 1000.0 | 1000.000 | 242.4 | V | 177.0 | 3.9 | 38.1 | 82.2 |
| 10200.200000 | 43.6 | 1000.0 | 1000.000 | 204.5 | V | 97.0 | 10.6 | 38.6 | 82.2 |
| 17956.900000 | 42.7 | 1000.0 | 1000.000 | 102.7 | V | 164.0 | 21.4 | 39.5 | 82.2 |

* This is the fundamental frequency not part of spurious emission evaluation. Data provided for information purpose only.



2.8.13 Radiated Emission Test Results Below 1GHz_ Worst Case Configuration_WCDMA Band 5 Low Channel



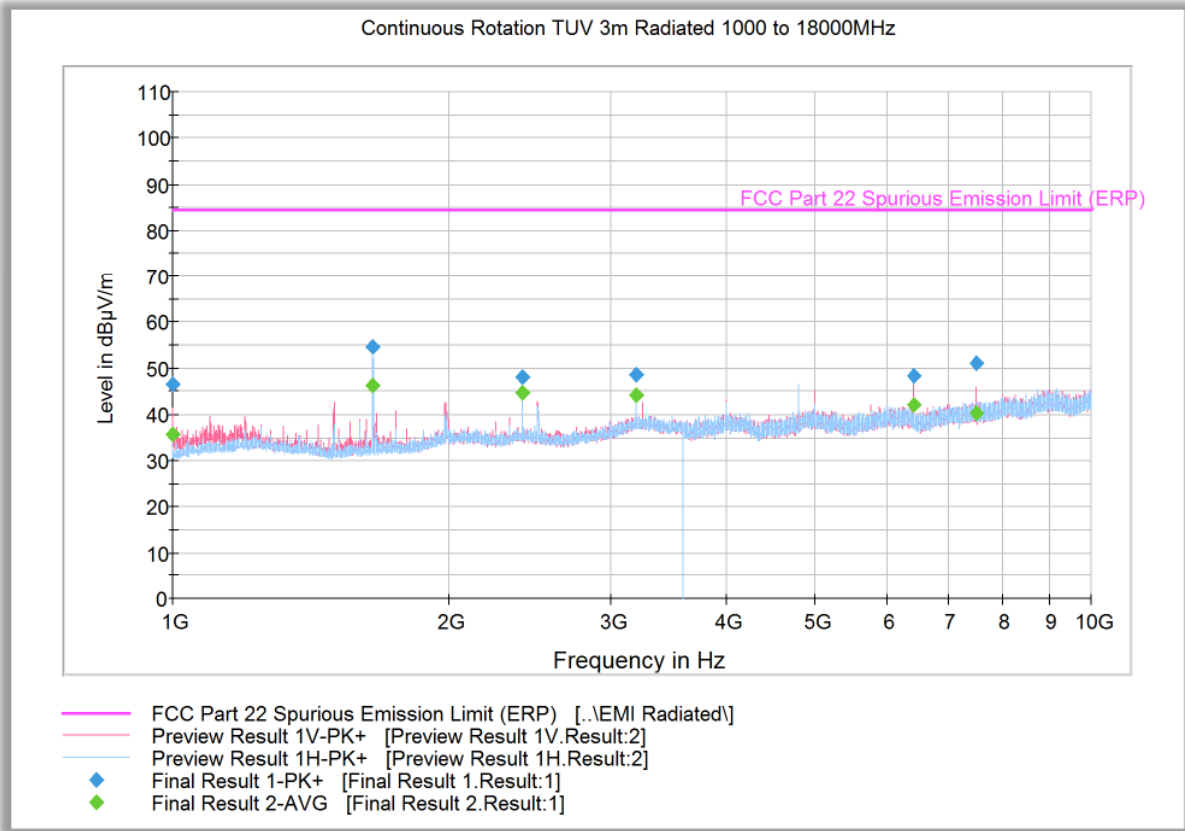
Quasi Peak Data

| Frequency (MHz) | QuasiPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|--------------------|-----------------|-----------------|-------------|--------------|---------------|------------|----------------------|----------------|
| 43.247214 | 37.4 | 1000.0 | 120.000 | 100.0 | V | 106.0 | -13.6 | 47.0 | 84.4 |
| 43.383327 | 37.6 | 1000.0 | 120.000 | 100.0 | V | 227.0 | -13.6 | 46.8 | 84.4 |
| 449.999760 | 41.6 | 1000.0 | 120.000 | 202.0 | V | 100.0 | -3.1 | 42.8 | 84.4 |
| 474.990301 | 43.0 | 1000.0 | 120.000 | 206.0 | V | 113.0 | -1.4 | 41.4 | 84.4 |
| 500.020842 | 37.0 | 1000.0 | 120.000 | 196.0 | V | 122.0 | -1.6 | 47.4 | 84.4 |
| 800.003447 | 56.5 | 1000.0 | 120.000 | 100.0 | V | 183.0 | 4.1 | 27.9 | 84.4 |
| 825.553988 | 89.6 | 1000.0 | 120.000 | 100.0 | H | 188.0 | 4.5 | Fundamental Carrier* | |

* This is the fundamental frequency not part of spurious emission evaluation. Data provided for information purpose only.



2.8.14 Radiated Emission Test Results Above 1GHz_Worst Case Configuration_WCDMA Band 5 Low Channel



Peak Data

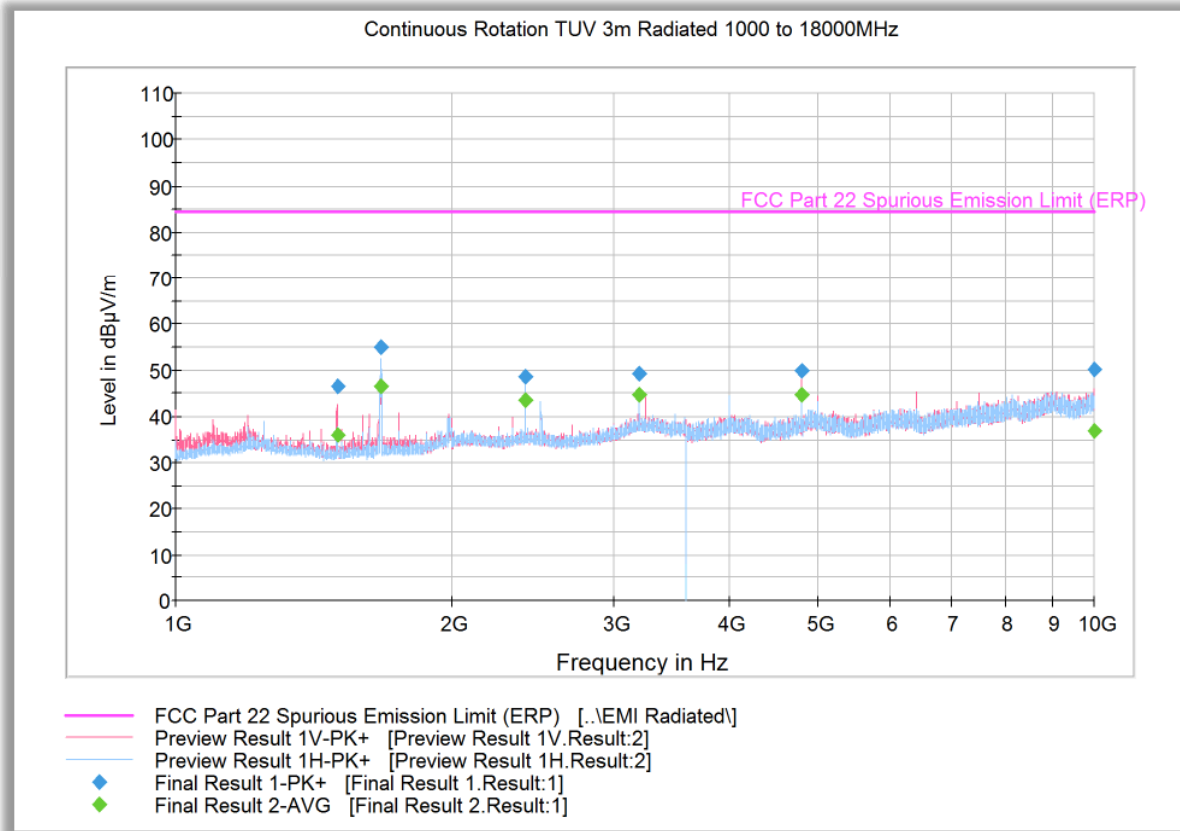
| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1000.000000 | 46.6 | 1000.0 | 1000.000 | 205.5 | V | 181.0 | -10.7 | 37.8 | 84.4 |
| 1651.100000 | 54.8 | 1000.0 | 1000.000 | 102.7 | H | 203.0 | -8.5 | 29.5 | 84.4 |
| 2400.000000 | 48.1 | 1000.0 | 1000.000 | 103.7 | H | 270.0 | -4.8 | 36.3 | 84.4 |
| 3200.100000 | 48.8 | 1000.0 | 1000.000 | 291.2 | H | 320.0 | -1.1 | 35.6 | 84.4 |
| 6399.800000 | 48.4 | 1000.0 | 1000.000 | 307.2 | V | 229.0 | 4.6 | 35.9 | 84.4 |
| 7499.800000 | 51.1 | 1000.0 | 1000.000 | 312.2 | V | 151.0 | 7.3 | 33.3 | 84.4 |

Average Data

| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1000.000000 | 35.8 | 1000.0 | 1000.000 | 205.5 | V | 181.0 | -10.7 | 48.6 | 84.4 |
| 1651.100000 | 46.2 | 1000.0 | 1000.000 | 102.7 | H | 203.0 | -8.5 | 38.1 | 84.4 |
| 2400.000000 | 44.7 | 1000.0 | 1000.000 | 103.7 | H | 270.0 | -4.8 | 39.6 | 84.4 |
| 3200.100000 | 44.2 | 1000.0 | 1000.000 | 291.2 | H | 320.0 | -1.1 | 40.2 | 84.4 |
| 6399.800000 | 42.0 | 1000.0 | 1000.000 | 307.2 | V | 229.0 | 4.6 | 42.3 | 84.4 |
| 7499.800000 | 40.3 | 1000.0 | 1000.000 | 312.2 | V | 151.0 | 7.3 | 44.1 | 84.4 |



2.8.15 Radiated Emission Test Results Above 1GHz_Worst Case Configuration_WCDMA Band 5 Middle Channel



Peak Data

| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1500.000000 | 46.5 | 1000.0 | 1000.000 | 237.4 | V | 191.0 | -9.0 | 37.9 | 84.4 |
| 1674.800000 | 54.9 | 1000.0 | 1000.000 | 102.7 | H | 208.0 | -8.2 | 29.4 | 84.4 |
| 2400.000000 | 48.6 | 1000.0 | 1000.000 | 281.3 | V | 134.0 | -4.8 | 35.8 | 84.4 |
| 3200.100000 | 49.2 | 1000.0 | 1000.000 | 302.2 | H | 316.0 | -1.1 | 35.2 | 84.4 |
| 4799.800000 | 49.9 | 1000.0 | 1000.000 | 204.5 | V | 311.0 | 2.2 | 34.5 | 84.4 |
| 9999.100000 | 50.1 | 1000.0 | 1000.000 | 195.5 | V | 202.0 | 10.3 | 34.3 | 84.4 |

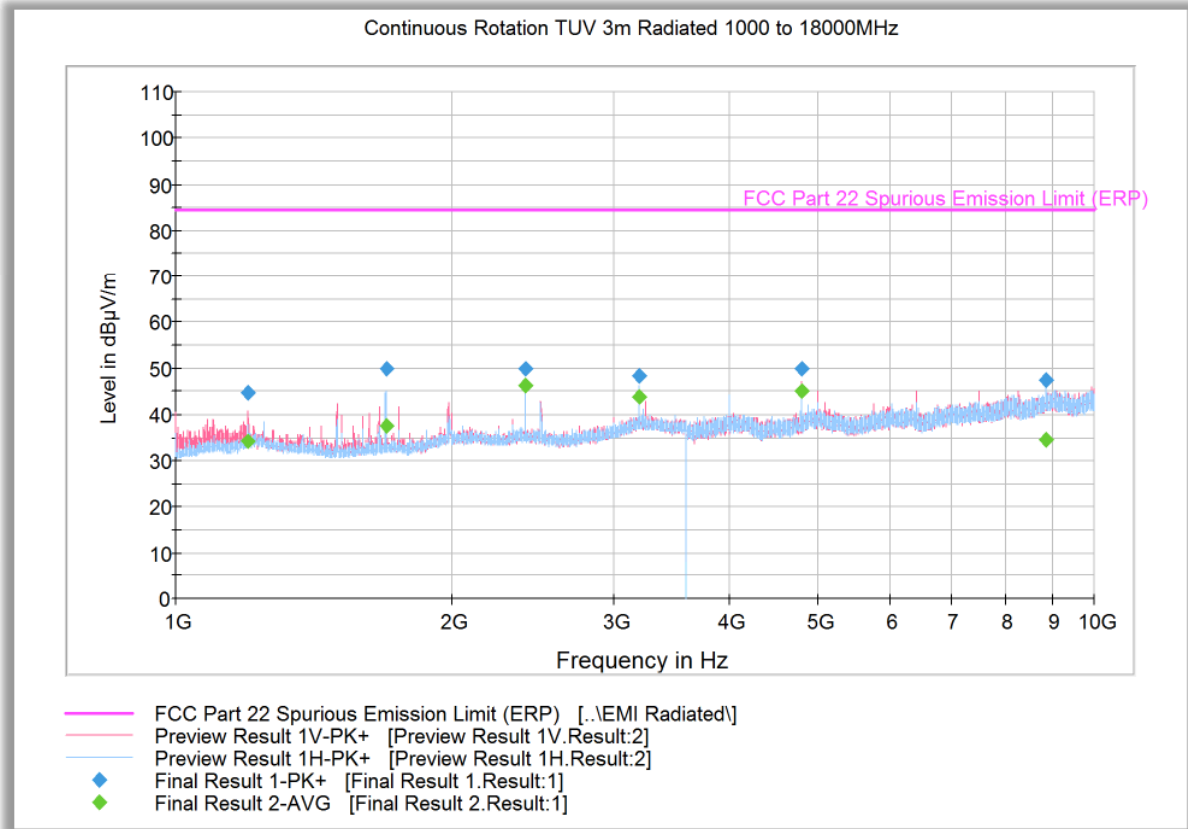
Average Data

| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1500.000000 | 36.0 | 1000.0 | 1000.000 | 237.4 | V | 191.0 | -9.0 | 48.4 | 84.4 |
| 1674.800000 | 46.5 | 1000.0 | 1000.000 | 102.7 | H | 208.0 | -8.2 | 37.9 | 84.4 |
| 2400.000000 | 43.5 | 1000.0 | 1000.000 | 281.3 | V | 134.0 | -4.8 | 40.9 | 84.4 |
| 3200.100000 | 44.8 | 1000.0 | 1000.000 | 302.2 | H | 316.0 | -1.1 | 39.6 | 84.4 |
| 4799.800000 | 44.9 | 1000.0 | 1000.000 | 204.5 | V | 311.0 | 2.2 | 39.5 | 84.4 |
| 9999.100000 | 37.0 | 1000.0 | 1000.000 | 195.5 | V | 202.0 | 10.3 | 47.4 | 84.4 |



America

2.8.16 Radiated Emission Test Results Above 1GHz_Worst Case Configuration_WCDMA Band 5 High Channel



Peak Data

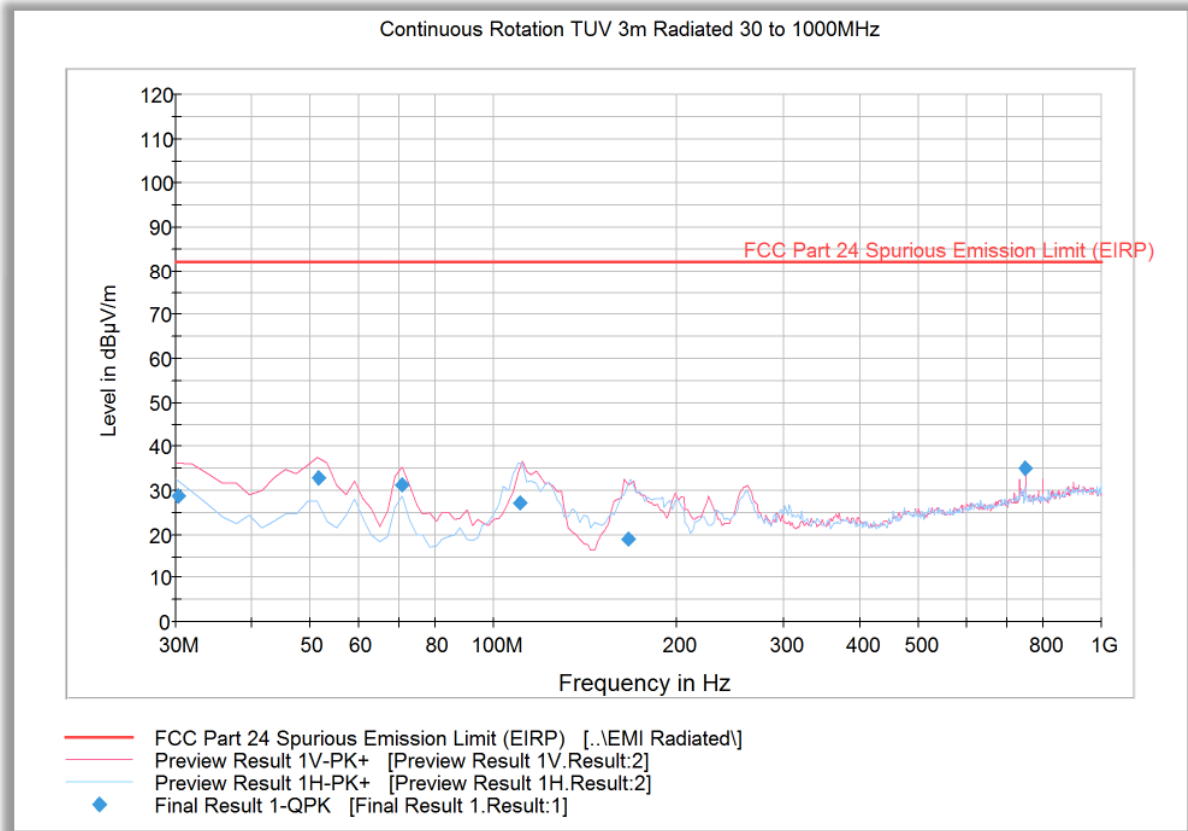
| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1200.000000 | 44.9 | 1000.0 | 1000.000 | 161.6 | V | 199.0 | -9.4 | 39.5 | 84.4 |
| 1695.800000 | 49.8 | 1000.0 | 1000.000 | 102.7 | H | 208.0 | -7.9 | 34.6 | 84.4 |
| 2400.000000 | 49.8 | 1000.0 | 1000.000 | 182.6 | V | 242.0 | -4.8 | 34.6 | 84.4 |
| 3200.100000 | 48.5 | 1000.0 | 1000.000 | 219.4 | H | 236.0 | -1.1 | 35.9 | 84.4 |
| 4799.900000 | 49.9 | 1000.0 | 1000.000 | 200.5 | V | 305.0 | 2.2 | 34.4 | 84.4 |
| 8850.900000 | 47.5 | 1000.0 | 1000.000 | 151.2 | H | 186.0 | 9.4 | 36.8 | 84.4 |

Average Data

| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1200.000000 | 34.4 | 1000.0 | 1000.000 | 161.6 | V | 199.0 | -9.4 | 50.0 | 84.4 |
| 1695.800000 | 37.5 | 1000.0 | 1000.000 | 102.7 | H | 208.0 | -7.9 | 46.9 | 84.4 |
| 2400.000000 | 46.3 | 1000.0 | 1000.000 | 182.6 | V | 242.0 | -4.8 | 38.1 | 84.4 |
| 3200.100000 | 43.9 | 1000.0 | 1000.000 | 219.4 | H | 236.0 | -1.1 | 40.5 | 84.4 |
| 4799.900000 | 45.1 | 1000.0 | 1000.000 | 200.5 | V | 305.0 | 2.2 | 39.3 | 84.4 |
| 8850.900000 | 34.5 | 1000.0 | 1000.000 | 151.2 | H | 186.0 | 9.4 | 49.9 | 84.4 |



2.8.17 Radiated Emission Test Results Below 1GHz_Worst Case Configuration_LTE Band 2_10 MHz Bandwidth_High Channel_1 RB 0 offset_QPSK

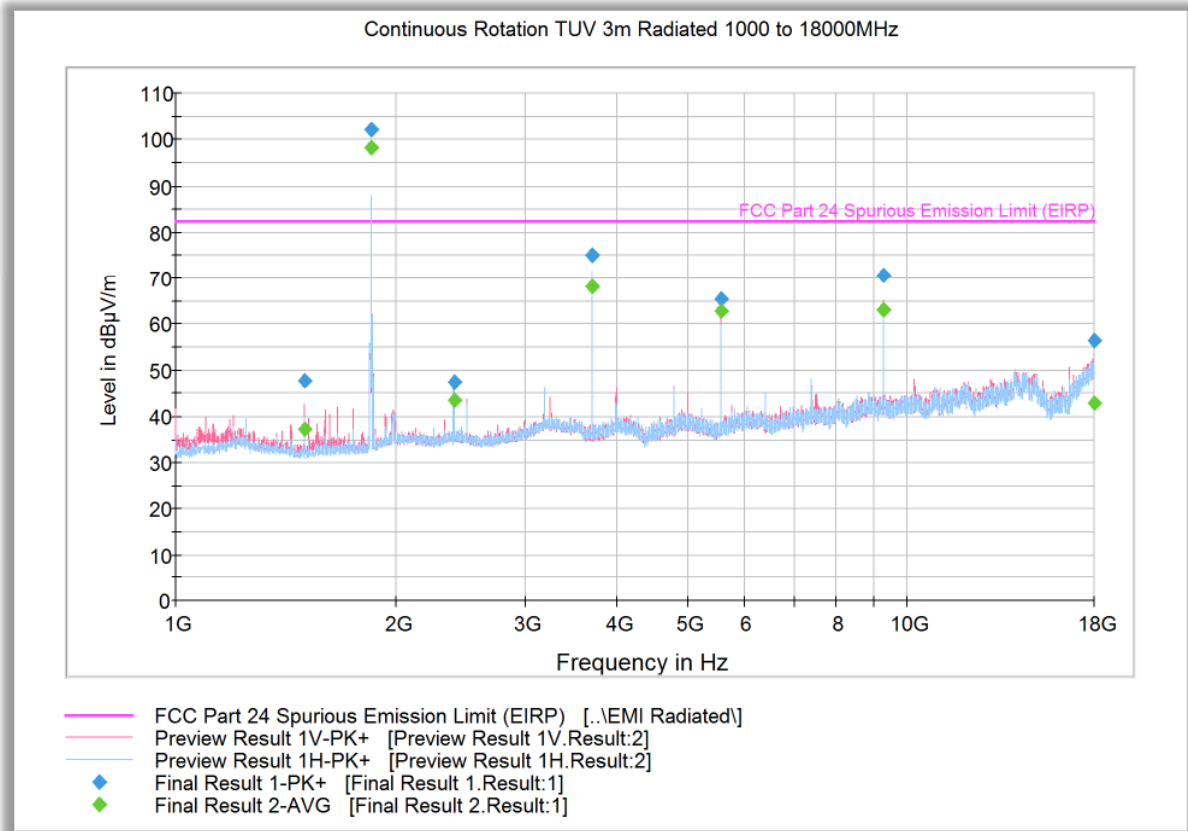


Quasi Peak Data

| Frequency (MHz) | QuasiPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|--------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 30.240000 | 28.7 | 1000.0 | 120.000 | 150.0 | V | 197.0 | -6.6 | 53.6 | 82.2 |
| 51.622766 | 33.0 | 1000.0 | 120.000 | 100.0 | V | 166.0 | -15.1 | 49.3 | 82.2 |
| 70.541643 | 31.4 | 1000.0 | 120.000 | 100.0 | V | 254.0 | -17.2 | 50.8 | 82.2 |
| 110.363287 | 27.3 | 1000.0 | 120.000 | 100.0 | V | 15.0 | -15.6 | 55.0 | 82.2 |
| 166.128257 | 19.0 | 1000.0 | 120.000 | 100.0 | V | 318.0 | -12.6 | 63.3 | 82.2 |
| 749.982365 | 35.1 | 1000.0 | 120.000 | 100.0 | V | 341.0 | 4.0 | 47.1 | 82.2 |



2.8.18 Radiated Emission Test Results Above 1GHz_Worst Case Configuration_LTE Band 2_10 MHz Bandwidth_Low Channel_1 RB 0 offset_QPSK



Peak Data

| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|----------------------|----------------|
| 1500.000000 | 47.9 | 1000.0 | 1000.000 | 252.3 | V | 204.0 | -9.0 | 34.3 | 82.2 |
| 1850.766667 | 102.3 | 1000.0 | 1000.000 | 152.2 | V | 222.0 | -6.9 | Fundamental Carrier* | |
| 2399.866667 | 47.5 | 1000.0 | 1000.000 | 103.7 | H | 217.0 | -4.8 | 34.8 | 82.2 |
| 3701.100000 | 75.2 | 1000.0 | 1000.000 | 102.7 | H | 152.0 | 0.4 | 7.0 | 82.2 |
| 5551.666667 | 65.5 | 1000.0 | 1000.000 | 227.4 | V | 194.0 | 4.0 | 16.7 | 82.2 |
| 9252.733333 | 70.7 | 1000.0 | 1000.000 | 233.4 | V | 204.0 | 9.6 | 11.6 | 82.2 |
| 17997.166667 | 56.6 | 1000.0 | 1000.000 | 322.2 | V | 176.0 | 21.4 | 25.7 | 82.2 |

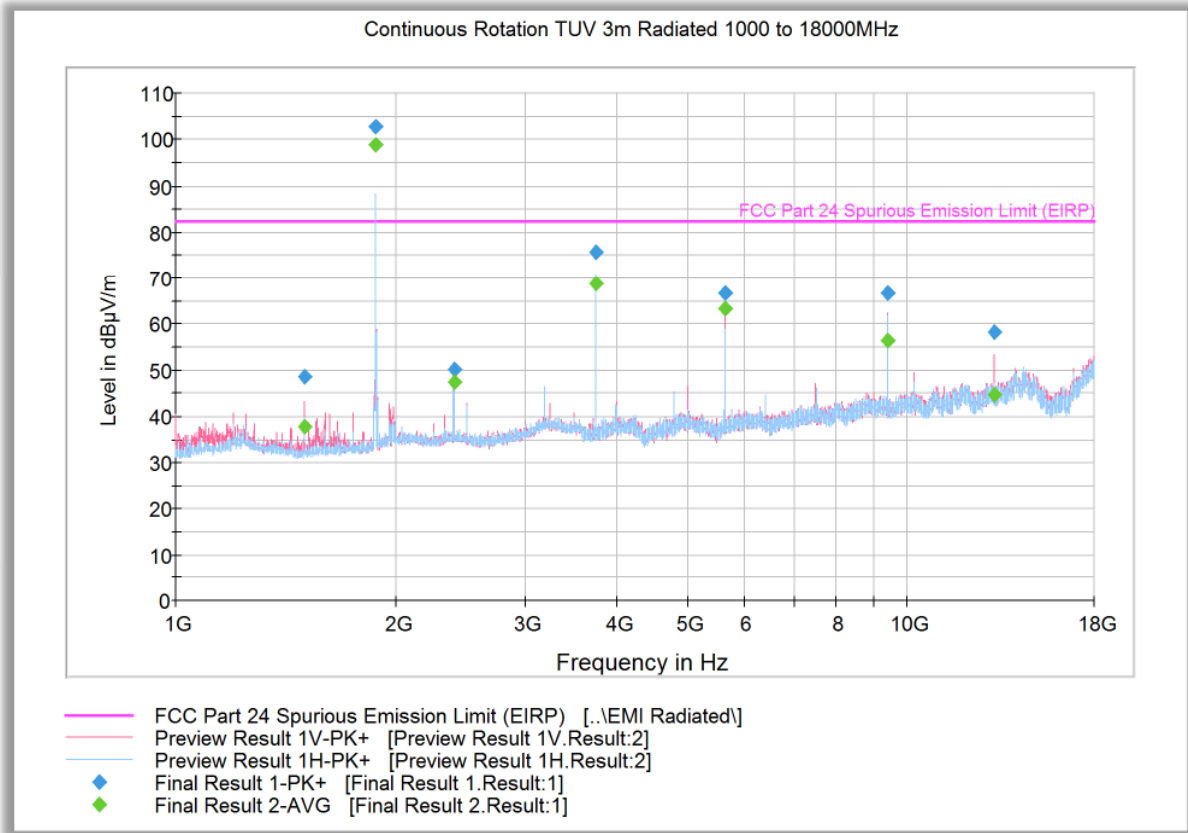
Average Data

| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|----------------------|----------------|
| 1500.000000 | 37.2 | 1000.0 | 1000.000 | 252.3 | V | 204.0 | -9.0 | 45.0 | 82.2 |
| 1850.766667 | 98.3 | 1000.0 | 1000.000 | 152.2 | V | 222.0 | -6.9 | Fundamental Carrier* | |
| 2399.866667 | 43.5 | 1000.0 | 1000.000 | 103.7 | H | 217.0 | -4.8 | 38.8 | 82.2 |
| 3701.100000 | 68.2 | 1000.0 | 1000.000 | 102.7 | H | 152.0 | 0.4 | 14.0 | 82.2 |
| 5551.666667 | 62.9 | 1000.0 | 1000.000 | 227.4 | V | 194.0 | 4.0 | 19.3 | 82.2 |
| 9252.733333 | 63.0 | 1000.0 | 1000.000 | 233.4 | V | 204.0 | 9.6 | 19.2 | 82.2 |
| 17997.166667 | 43.0 | 1000.0 | 1000.000 | 322.2 | V | 176.0 | 21.4 | 39.3 | 82.2 |

* This is the fundamental frequency not part of spurious emission evaluation. Data provided for information purpose only.



2.8.19 Radiated Emission Test Results Above 1GHz_Worst Case Configuration_LTE Band 2_10 MHz Bandwidth_Middle Channel_1 RB 0 offset_QPSK



Peak Data

| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|----------------------|----------------|
| 1500.000000 | 48.8 | 1000.0 | 1000.000 | 228.4 | V | 187.0 | -9.0 | 33.5 | 82.2 |
| 1875.700000 | 102.6 | 1000.0 | 1000.000 | 165.6 | V | 38.0 | -6.6 | Fundamental Carrier* | |
| 2399.866667 | 50.2 | 1000.0 | 1000.000 | 204.4 | V | 243.0 | -4.8 | 32.0 | 82.2 |
| 3751.000000 | 75.7 | 1000.0 | 1000.000 | 132.7 | V | 162.0 | 0.8 | 6.5 | 82.2 |
| 5626.633333 | 66.6 | 1000.0 | 1000.000 | 338.1 | V | 198.0 | 4.2 | 15.6 | 82.2 |
| 9377.966667 | 66.8 | 1000.0 | 1000.000 | 281.2 | V | 213.0 | 9.8 | 15.4 | 82.2 |
| 13128.733333 | 58.2 | 1000.0 | 1000.000 | 112.7 | V | 207.0 | 13.9 | 24.0 | 82.2 |

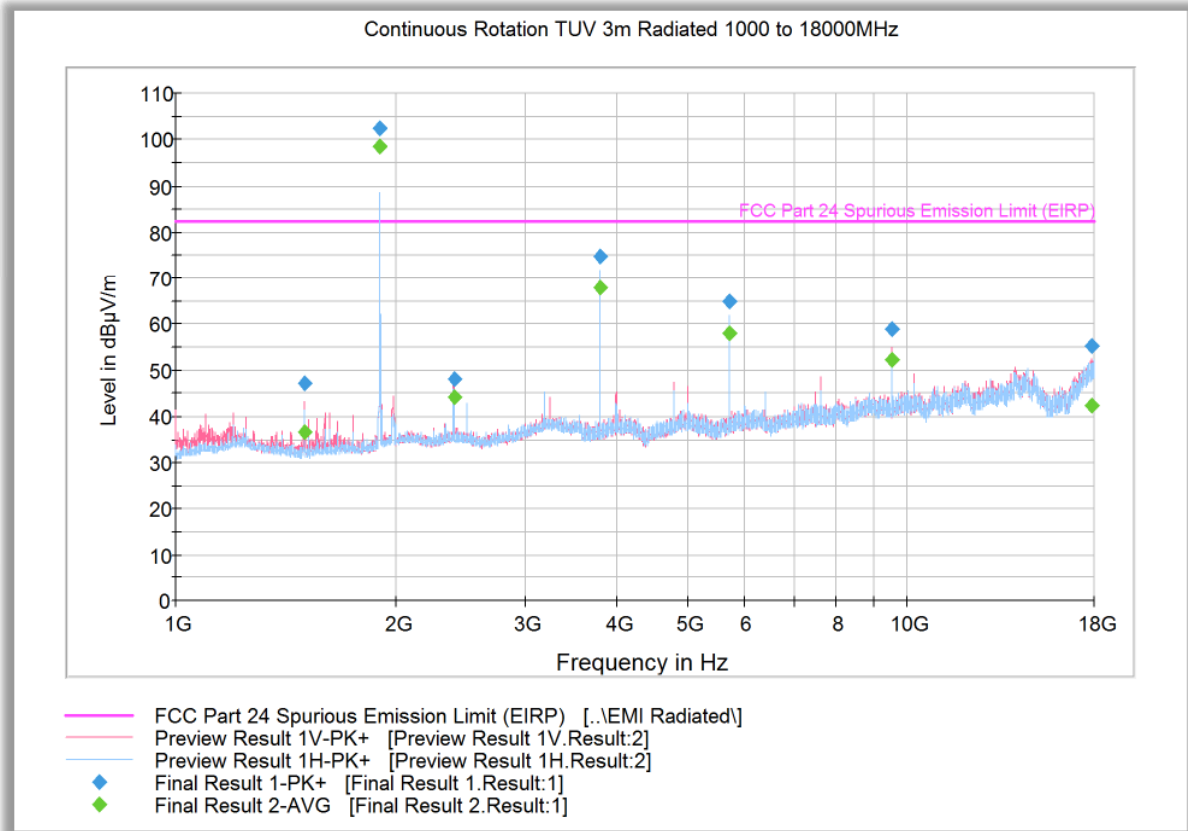
Average Data

| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|----------------------|----------------|
| 1500.000000 | 38.0 | 1000.0 | 1000.000 | 228.4 | V | 187.0 | -9.0 | 44.3 | 82.2 |
| 1875.700000 | 98.8 | 1000.0 | 1000.000 | 165.6 | V | 38.0 | -6.6 | Fundamental Carrier* | |
| 2399.866667 | 47.4 | 1000.0 | 1000.000 | 204.4 | V | 243.0 | -4.8 | 34.9 | 82.2 |
| 3751.000000 | 68.9 | 1000.0 | 1000.000 | 132.7 | V | 162.0 | 0.8 | 13.3 | 82.2 |
| 5626.633333 | 63.4 | 1000.0 | 1000.000 | 338.1 | V | 198.0 | 4.2 | 18.8 | 82.2 |
| 9377.966667 | 56.5 | 1000.0 | 1000.000 | 281.2 | V | 213.0 | 9.8 | 25.8 | 82.2 |
| 13128.733333 | 44.7 | 1000.0 | 1000.000 | 112.7 | V | 207.0 | 13.9 | 37.6 | 82.2 |

* This is the fundamental frequency not part of spurious emission evaluation. Data provided for information purpose only.



2.8.20 Radiated Emission Test Results Above 1GHz_Worst Case Configuration_LTE Band 2_10 MHz Bandwidth_High Channel_1 RB 0 offset_QPSK



Peak Data

| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|----------------------|----------------|
| 1500.000000 | 47.3 | 1000.0 | 1000.000 | 228.4 | V | 179.0 | -9.0 | 34.9 | 82.2 |
| 1900.633333 | 102.4 | 1000.0 | 1000.000 | 352.7 | V | 277.0 | -6.3 | Fundamental Carrier* | |
| 2400.033333 | 48.1 | 1000.0 | 1000.000 | 103.7 | H | 218.0 | -4.8 | 34.2 | 82.2 |
| 3801.233333 | 74.8 | 1000.0 | 1000.000 | 307.2 | H | 311.0 | 1.1 | 7.5 | 82.2 |
| 5701.833333 | 65.0 | 1000.0 | 1000.000 | 102.7 | H | 197.0 | 3.9 | 17.2 | 82.2 |
| 9503.033333 | 58.8 | 1000.0 | 1000.000 | 250.4 | V | 199.0 | 9.8 | 23.5 | 82.2 |
| 17862.500000 | 55.4 | 1000.0 | 1000.000 | 240.4 | V | 51.0 | 21.1 | 26.8 | 82.2 |

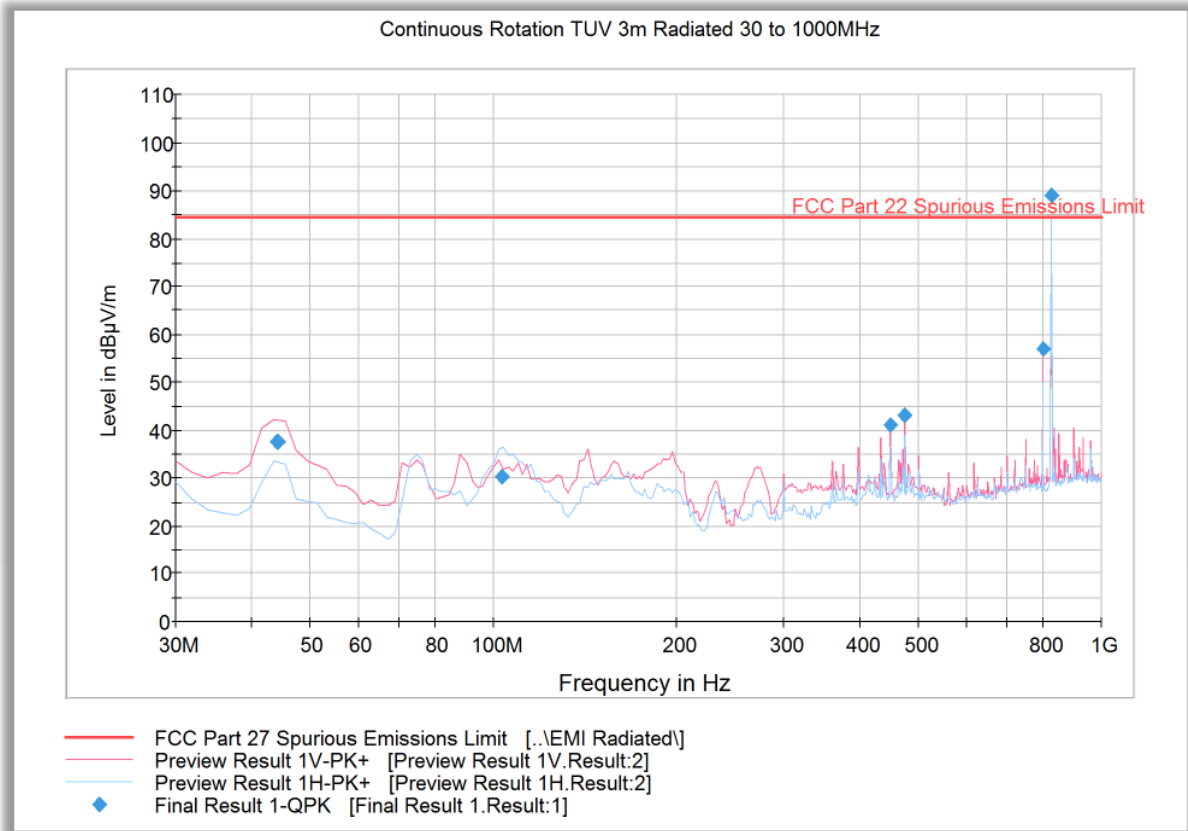
Average Data

| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|----------------------|----------------|
| 1500.000000 | 36.5 | 1000.0 | 1000.000 | 228.4 | V | 179.0 | -9.0 | 45.7 | 82.2 |
| 1900.633333 | 98.4 | 1000.0 | 1000.000 | 352.7 | V | 277.0 | -6.3 | Fundamental Carrier* | |
| 2400.033333 | 44.3 | 1000.0 | 1000.000 | 103.7 | H | 218.0 | -4.8 | 37.9 | 82.2 |
| 3801.233333 | 67.8 | 1000.0 | 1000.000 | 307.2 | H | 311.0 | 1.1 | 14.4 | 82.2 |
| 5701.833333 | 58.1 | 1000.0 | 1000.000 | 102.7 | H | 197.0 | 3.9 | 24.1 | 82.2 |
| 9503.033333 | 52.4 | 1000.0 | 1000.000 | 250.4 | V | 199.0 | 9.8 | 29.8 | 82.2 |
| 17862.500000 | 42.5 | 1000.0 | 1000.000 | 240.4 | V | 51.0 | 21.1 | 39.8 | 82.2 |

* This is the fundamental frequency not part of spurious emission evaluation. Data provided for information purpose only.



2.8.21 Radiated Emission Test Results Below 1GHz_Worst Case Configuration_LTE Band 5/26 (824 – 849 MHz)_5 MHz Bandwidth Low Channel_1 RB 13 offset_QPSK



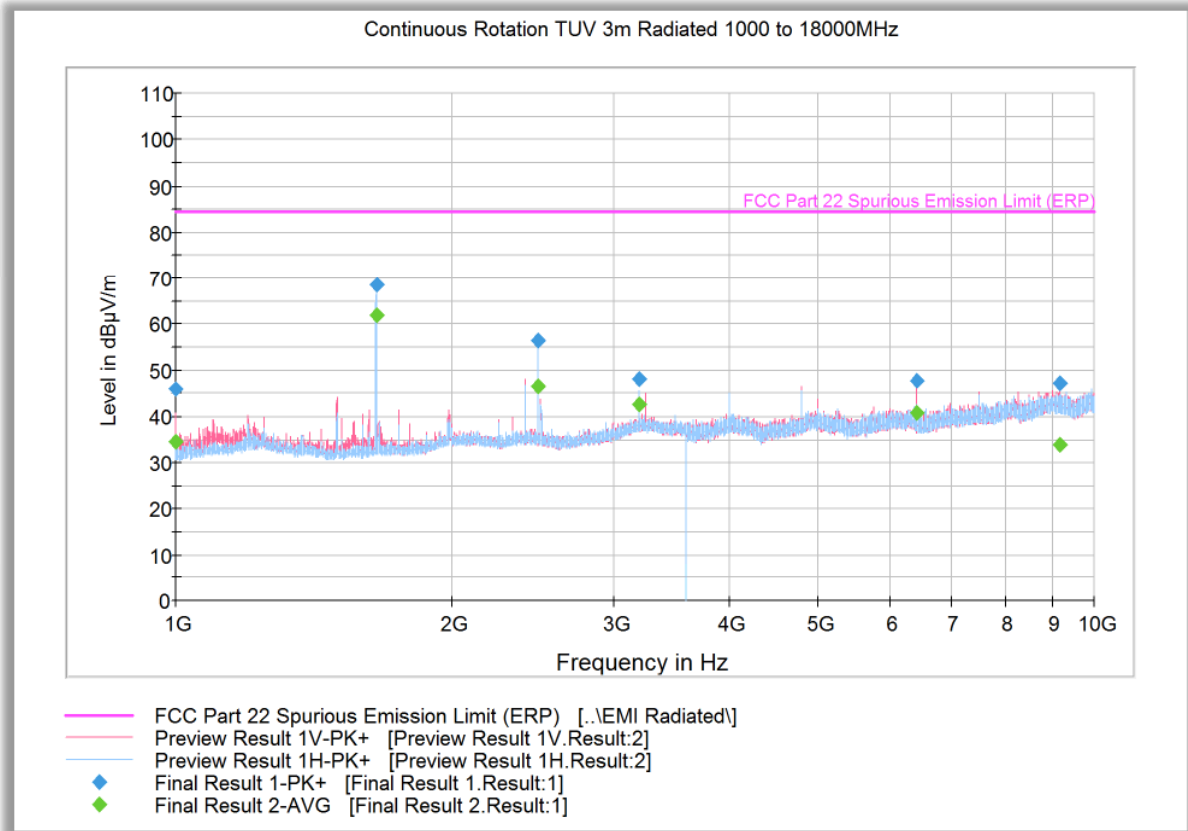
Quasi Peak Data

| Frequency (MHz) | QuasiPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|--------------------|-----------------|-----------------|-------------|--------------|---------------|------------|----------------------|----------------|
| 44.063327 | 37.7 | 1000.0 | 120.000 | 100.0 | V | 129.0 | -13.8 | 46.7 | 84.4 |
| 44.167214 | 37.6 | 1000.0 | 120.000 | 100.0 | V | 92.0 | -13.8 | 46.8 | 84.4 |
| 103.387735 | 30.4 | 1000.0 | 120.000 | 346.0 | H | 184.0 | -15.0 | 54.0 | 84.4 |
| 449.999760 | 41.1 | 1000.0 | 120.000 | 212.0 | V | 94.0 | -3.1 | 43.3 | 84.4 |
| 474.990301 | 43.3 | 1000.0 | 120.000 | 211.0 | V | 113.0 | -1.4 | 41.1 | 84.4 |
| 800.003447 | 56.9 | 1000.0 | 120.000 | 109.0 | V | 180.0 | 4.1 | 27.5 | 84.4 |
| 826.673988 | 89.3 | 1000.0 | 120.000 | 383.0 | H | 184.0 | 4.6 | Fundamental Carrier* | |

* This is the fundamental frequency not part of spurious emission evaluation. Data provided for information purpose only.



2.8.22 Radiated Emission Test Results Above 1GHz_Worst Case Configuration_LTE Band 5/26 (824 – 849 MHz)_5 MHz Bandwidth Low Channel_1 RB 13 offset_QPSK



Peak Data

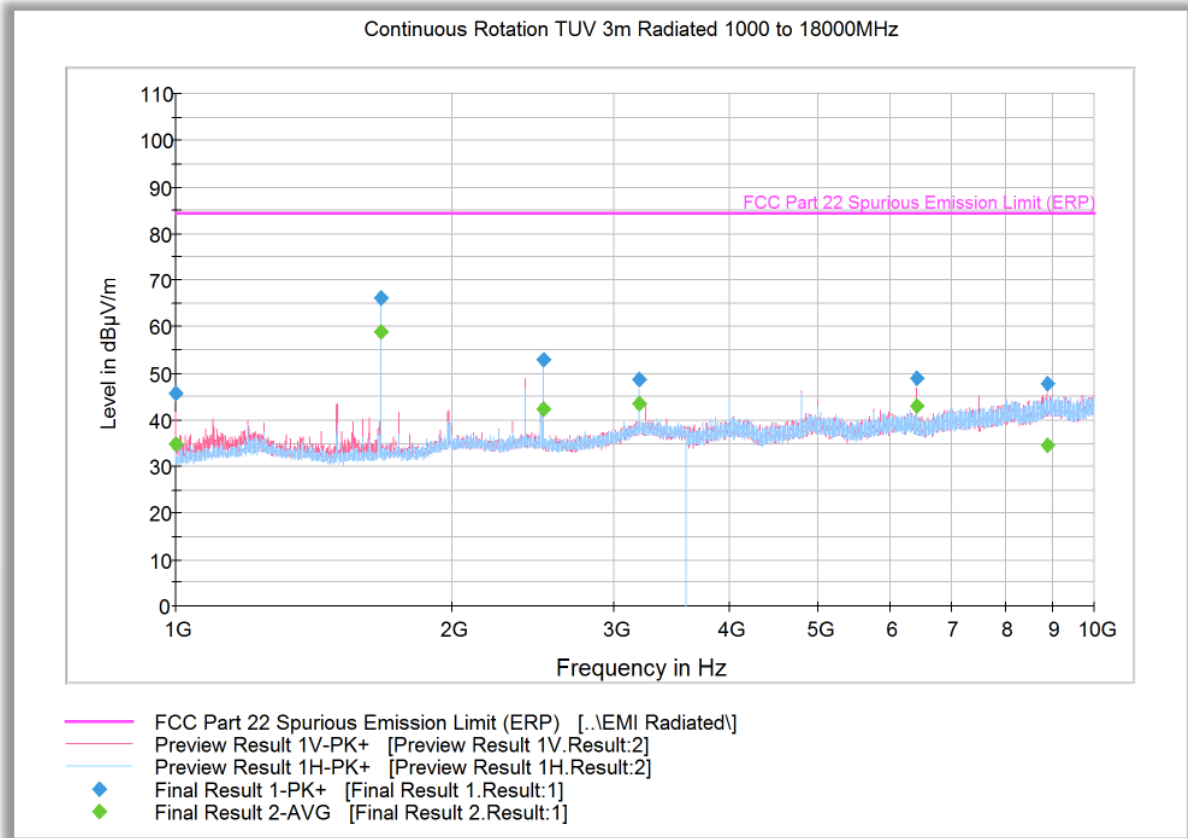
| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1000.000000 | 46.0 | 1000.0 | 1000.000 | 214.4 | V | 170.0 | -10.7 | 38.4 | 84.4 |
| 1653.300000 | 68.6 | 1000.0 | 1000.000 | 102.7 | H | 193.0 | -8.5 | 15.8 | 84.4 |
| 2480.100000 | 56.5 | 1000.0 | 1000.000 | 103.7 | H | 197.0 | -4.7 | 27.9 | 84.4 |
| 3200.100000 | 48.0 | 1000.0 | 1000.000 | 302.2 | H | 315.0 | -1.1 | 36.4 | 84.4 |
| 6400.100000 | 47.9 | 1000.0 | 1000.000 | 322.2 | V | 227.0 | 4.6 | 36.5 | 84.4 |
| 9160.900000 | 47.1 | 1000.0 | 1000.000 | 280.2 | V | 322.0 | 9.4 | 37.3 | 84.4 |

Average Data

| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1000.000000 | 34.6 | 1000.0 | 1000.000 | 214.4 | V | 170.0 | -10.7 | 49.7 | 84.4 |
| 1653.300000 | 61.8 | 1000.0 | 1000.000 | 102.7 | H | 193.0 | -8.5 | 22.6 | 84.4 |
| 2480.100000 | 46.7 | 1000.0 | 1000.000 | 103.7 | H | 197.0 | -4.7 | 37.7 | 84.4 |
| 3200.100000 | 42.8 | 1000.0 | 1000.000 | 302.2 | H | 315.0 | -1.1 | 41.6 | 84.4 |
| 6400.100000 | 40.7 | 1000.0 | 1000.000 | 322.2 | V | 227.0 | 4.6 | 43.6 | 84.4 |
| 9160.900000 | 34.1 | 1000.0 | 1000.000 | 280.2 | V | 322.0 | 9.4 | 50.3 | 84.4 |



2.8.23 Radiated Emission Test Results Above 1GHz_Worst Case Configuration_LTE Band 5/26 (824 – 849 MHz)_5 MHz Bandwidth Middle Channel_1 RB 13 offset_QPSK



Peak Data

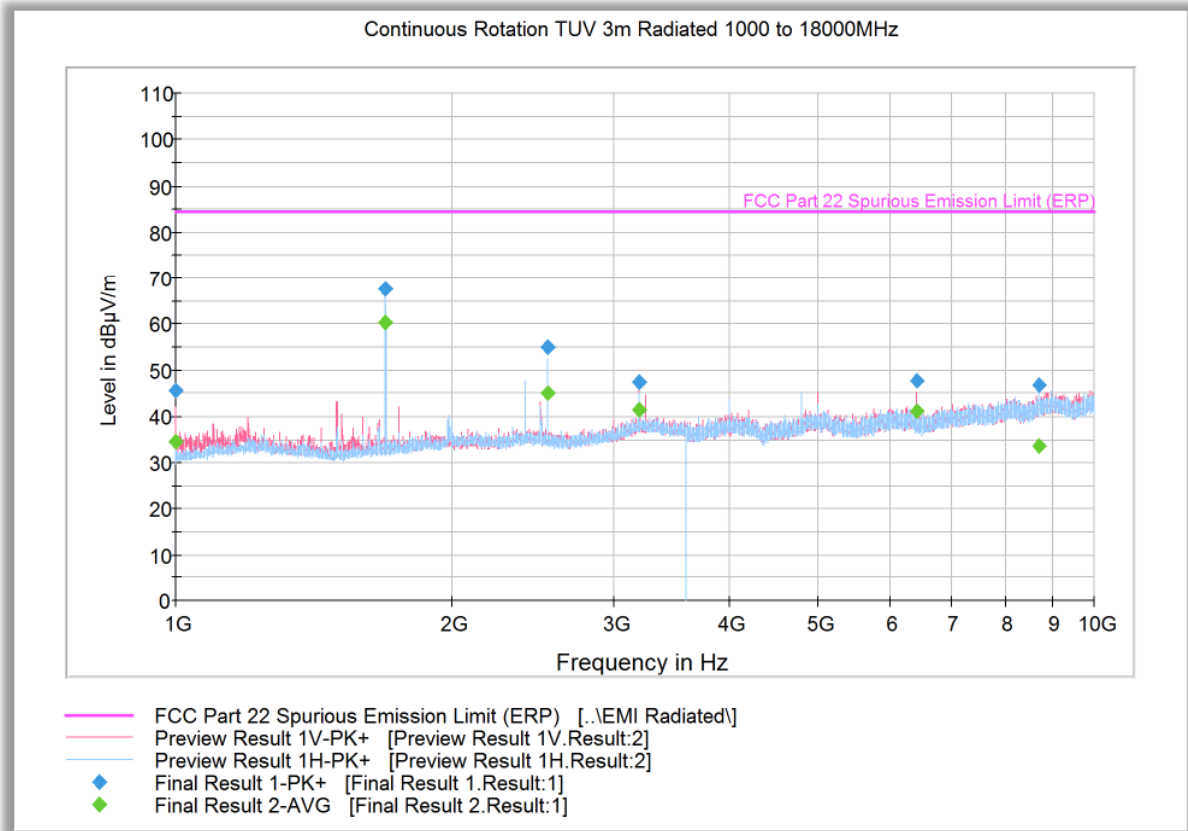
| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1000.000000 | 45.8 | 1000.0 | 1000.000 | 182.5 | V | 181.0 | -10.7 | 38.6 | 84.4 |
| 1673.400000 | 66.1 | 1000.0 | 1000.000 | 104.7 | H | 199.0 | -8.3 | 18.3 | 84.4 |
| 2510.000000 | 52.8 | 1000.0 | 1000.000 | 103.7 | H | 200.0 | -4.6 | 31.5 | 84.4 |
| 3200.100000 | 48.7 | 1000.0 | 1000.000 | 252.3 | H | 22.0 | -1.1 | 35.7 | 84.4 |
| 6400.100000 | 49.0 | 1000.0 | 1000.000 | 312.1 | V | 229.0 | 4.6 | 35.3 | 84.4 |
| 8880.400000 | 47.9 | 1000.0 | 1000.000 | 174.6 | V | 317.0 | 9.4 | 36.5 | 84.4 |

Average Data

| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1000.000000 | 34.9 | 1000.0 | 1000.000 | 182.5 | V | 181.0 | -10.7 | 49.5 | 84.4 |
| 1673.400000 | 59.0 | 1000.0 | 1000.000 | 104.7 | H | 199.0 | -8.3 | 25.4 | 84.4 |
| 2510.000000 | 42.4 | 1000.0 | 1000.000 | 103.7 | H | 200.0 | -4.6 | 41.9 | 84.4 |
| 3200.100000 | 43.5 | 1000.0 | 1000.000 | 252.3 | H | 22.0 | -1.1 | 40.9 | 84.4 |
| 6400.100000 | 43.1 | 1000.0 | 1000.000 | 312.1 | V | 229.0 | 4.6 | 41.3 | 84.4 |
| 8880.400000 | 34.6 | 1000.0 | 1000.000 | 174.6 | V | 317.0 | 9.4 | 49.7 | 84.4 |



2.8.24 Radiated Emission Test Results Above 1GHz_Worst Case Configuration_LTE Band 5/26 (824 – 849 MHz)_5 MHz Bandwidth High Channel_1 RB 13 offset_QPSK



Peak Data

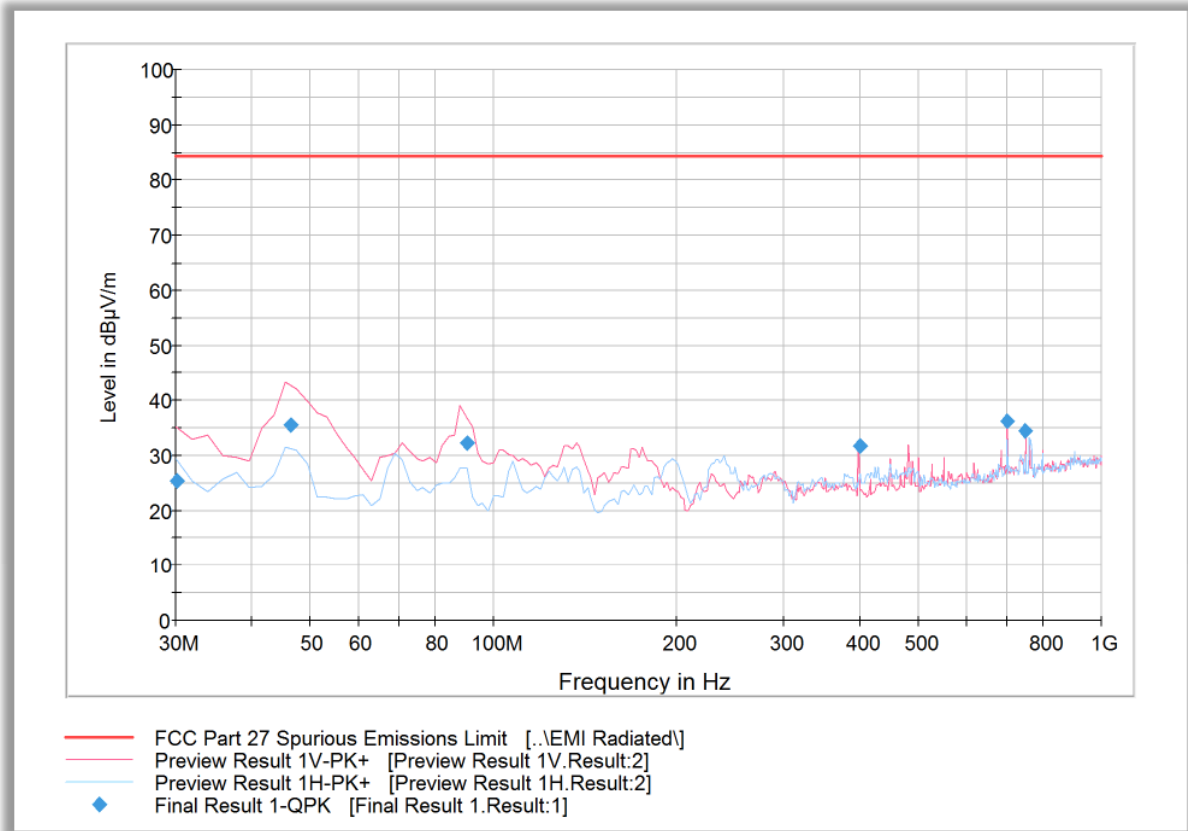
| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1000.000000 | 45.5 | 1000.0 | 1000.000 | 204.5 | V | 183.0 | -10.7 | 38.8 | 84.4 |
| 1693.500000 | 67.5 | 1000.0 | 1000.000 | 151.2 | H | 204.0 | -8.0 | 16.8 | 84.4 |
| 2540.100000 | 55.0 | 1000.0 | 1000.000 | 151.2 | H | 203.0 | -4.5 | 29.4 | 84.4 |
| 3200.000000 | 47.4 | 1000.0 | 1000.000 | 305.2 | V | 343.0 | -1.1 | 37.0 | 84.4 |
| 6399.800000 | 47.8 | 1000.0 | 1000.000 | 251.5 | V | 180.0 | 4.6 | 36.6 | 84.4 |
| 8708.300000 | 46.8 | 1000.0 | 1000.000 | 152.7 | H | 291.0 | 9.0 | 37.6 | 84.4 |

Average Data

| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1000.000000 | 34.6 | 1000.0 | 1000.000 | 204.5 | V | 183.0 | -10.7 | 49.8 | 84.4 |
| 1693.500000 | 60.4 | 1000.0 | 1000.000 | 151.2 | H | 204.0 | -8.0 | 24.0 | 84.4 |
| 2540.100000 | 45.2 | 1000.0 | 1000.000 | 151.2 | H | 203.0 | -4.5 | 39.2 | 84.4 |
| 3200.000000 | 41.6 | 1000.0 | 1000.000 | 305.2 | V | 343.0 | -1.1 | 42.8 | 84.4 |
| 6399.800000 | 41.1 | 1000.0 | 1000.000 | 251.5 | V | 180.0 | 4.6 | 43.3 | 84.4 |
| 8708.300000 | 33.7 | 1000.0 | 1000.000 | 152.7 | H | 291.0 | 9.0 | 50.7 | 84.4 |



2.8.25 Radiated Emission Test Results Below 1GHz_Worst Case Configuration_LTE Band 25_1.4 MHz Bandwidth High Channel_1 RB 3 offset_QPSK

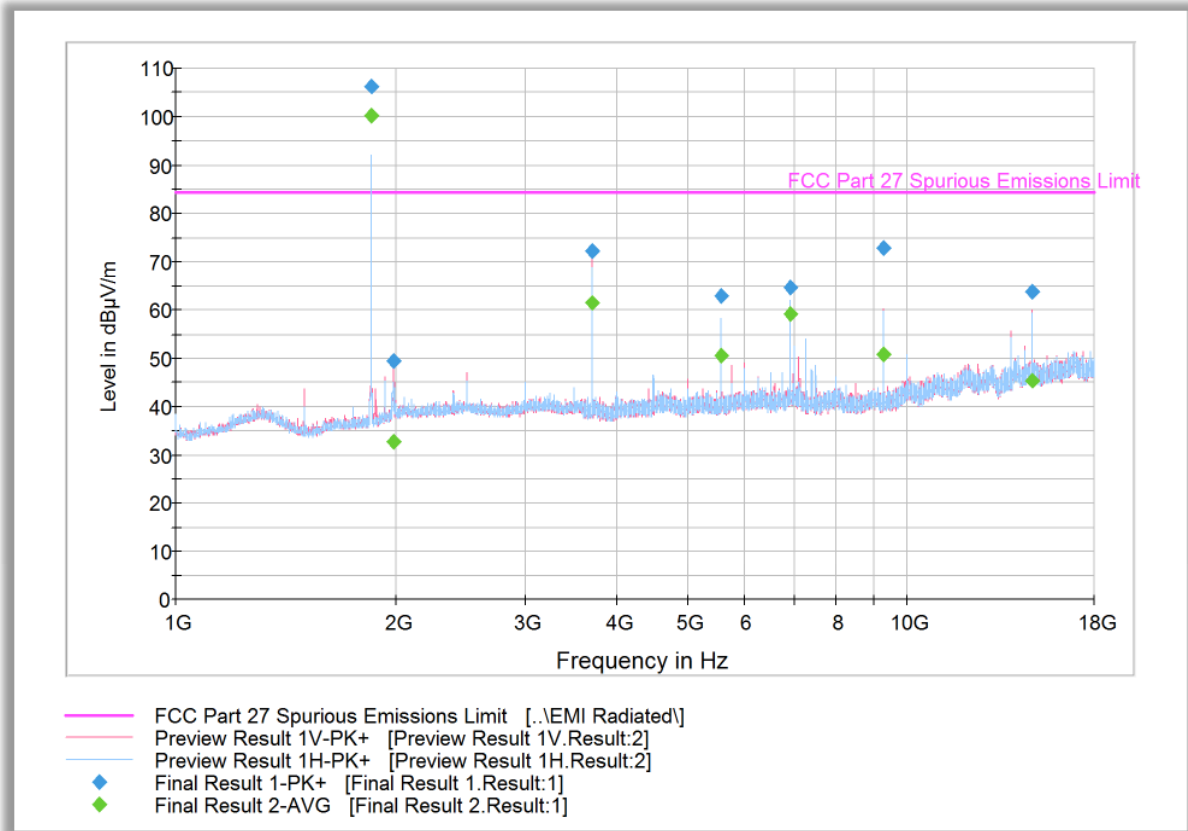


Quasi Peak Data

| Frequency (MHz) | QuasiPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|--------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 30.120000 | 25.5 | 1000.0 | 120.000 | 120.0 | V | 130.0 | -7.8 | 58.9 | 84.4 |
| 46.511102 | 35.6 | 1000.0 | 120.000 | 100.0 | V | 23.0 | -14.0 | 48.8 | 84.4 |
| 90.676633 | 32.2 | 1000.0 | 120.000 | 106.0 | V | 86.0 | -14.8 | 52.2 | 84.4 |
| 400.018677 | 31.8 | 1000.0 | 120.000 | 105.0 | V | 190.0 | -4.4 | 52.6 | 84.4 |
| 700.041283 | 36.4 | 1000.0 | 120.000 | 106.0 | V | 21.0 | 2.7 | 48.0 | 84.4 |
| 750.022365 | 34.5 | 1000.0 | 120.000 | 150.0 | V | -2.0 | 2.8 | 49.9 | 84.4 |



2.8.26 Radiated Emission Test Results Above 1GHz_Worst Case Configuration_LTE Band 25_1.4 MHz Bandwidth Low Channel_1 RB 3 offset_QPSK



Peak Data

| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------------|
| 1850.766667 | 106.3 | 1000.0 | 1000.000 | 103.7 | H | 158.0 | -2.9 | | Fundamental Carrier* |
| 1986.966667 | 49.4 | 1000.0 | 1000.000 | 103.7 | V | 155.0 | -2.3 | 35.0 | 84.4 |
| 3701.500000 | 72.5 | 1000.0 | 1000.000 | 103.7 | V | 219.0 | 2.0 | 11.9 | 84.4 |
| 5552.233333 | 62.9 | 1000.0 | 1000.000 | 196.5 | H | 106.0 | 5.2 | 21.5 | 84.4 |
| 6914.666667 | 64.8 | 1000.0 | 1000.000 | 318.2 | H | 217.0 | 6.7 | 19.6 | 84.4 |
| 9253.866667 | 72.9 | 1000.0 | 1000.000 | 152.2 | V | 184.0 | 8.1 | 11.5 | 84.4 |
| 14806.066667 | 63.9 | 1000.0 | 1000.000 | 285.3 | V | 264.0 | 15.6 | 20.5 | 84.4 |

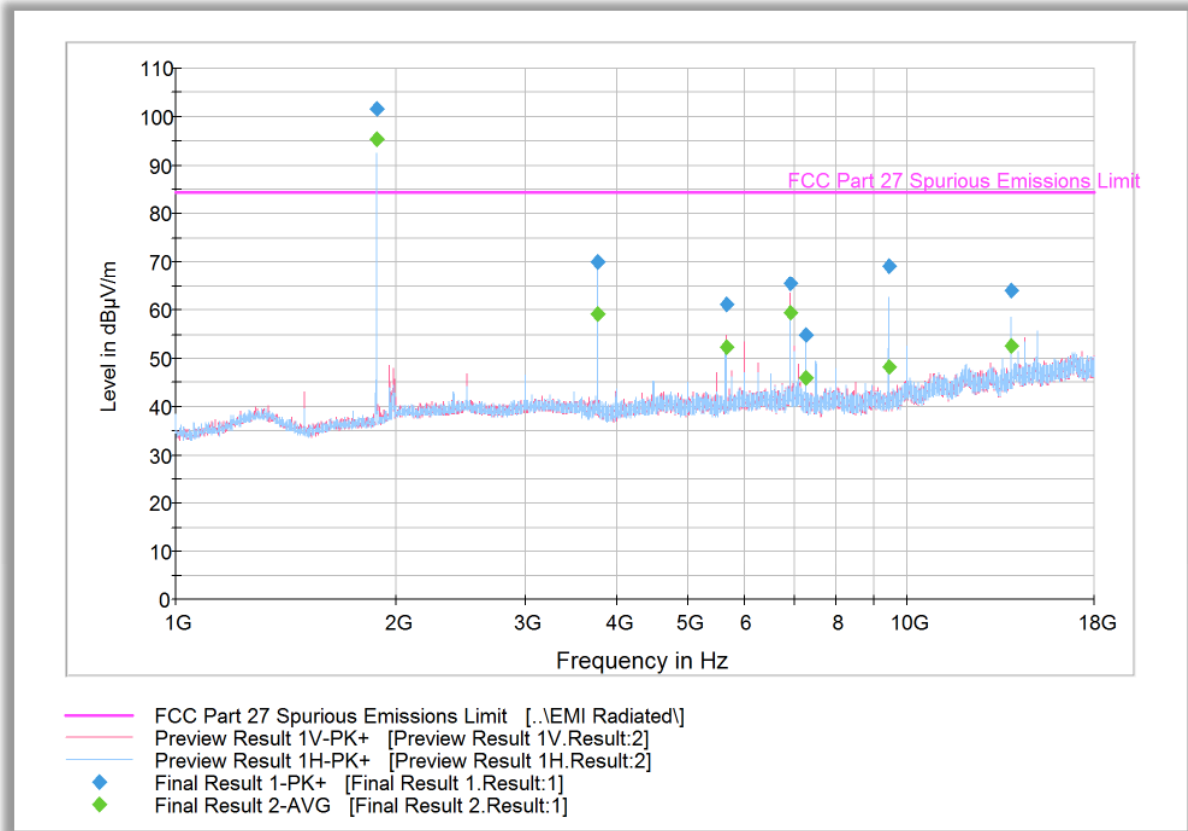
Average Data

| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------------|
| 1850.766667 | 100.3 | 1000.0 | 1000.000 | 103.7 | H | 158.0 | -2.9 | | Fundamental Carrier* |
| 1986.966667 | 32.8 | 1000.0 | 1000.000 | 103.7 | V | 155.0 | -2.3 | 51.6 | 84.4 |
| 3701.500000 | 61.5 | 1000.0 | 1000.000 | 103.7 | V | 219.0 | 2.0 | 22.9 | 84.4 |
| 5552.233333 | 50.5 | 1000.0 | 1000.000 | 196.5 | H | 106.0 | 5.2 | 33.9 | 84.4 |
| 6914.666667 | 59.3 | 1000.0 | 1000.000 | 318.2 | H | 217.0 | 6.7 | 25.1 | 84.4 |
| 9253.866667 | 50.7 | 1000.0 | 1000.000 | 152.2 | V | 184.0 | 8.1 | 33.7 | 84.4 |
| 14806.066667 | 45.2 | 1000.0 | 1000.000 | 285.3 | V | 264.0 | 15.6 | 39.2 | 84.4 |

* This is the fundamental frequency not part of spurious emission evaluation. Data provided for information purpose only.



2.8.27 Radiated Emission Test Results Above 1GHz_Worst Case Configuration_LTE Band 25_1.4 MHz Bandwidth Middle Channel_1 RB 3 offset_QPSK



Peak Data

| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|----------------------|----------------|
| 1882.500000 | 101.6 | 1000.0 | 1000.000 | 195.5 | V | 261.0 | -2.7 | Fundamental Carrier* | |
| 3765.166667 | 70.0 | 1000.0 | 1000.000 | 165.6 | H | 185.0 | 2.0 | 14.4 | 84.4 |
| 5647.600000 | 61.2 | 1000.0 | 1000.000 | 302.2 | V | 177.0 | 5.0 | 23.2 | 84.4 |
| 6915.100000 | 65.4 | 1000.0 | 1000.000 | 302.2 | V | 124.0 | 6.7 | 19.0 | 84.4 |
| 7248.066667 | 54.7 | 1000.0 | 1000.000 | 252.3 | V | 233.0 | 7.0 | 29.7 | 84.4 |
| 9412.933333 | 69.2 | 1000.0 | 1000.000 | 195.5 | H | 194.0 | 8.7 | 15.2 | 84.4 |
| 13829.566667 | 64.0 | 1000.0 | 1000.000 | 291.2 | H | 336.0 | 14.1 | 20.4 | 84.4 |

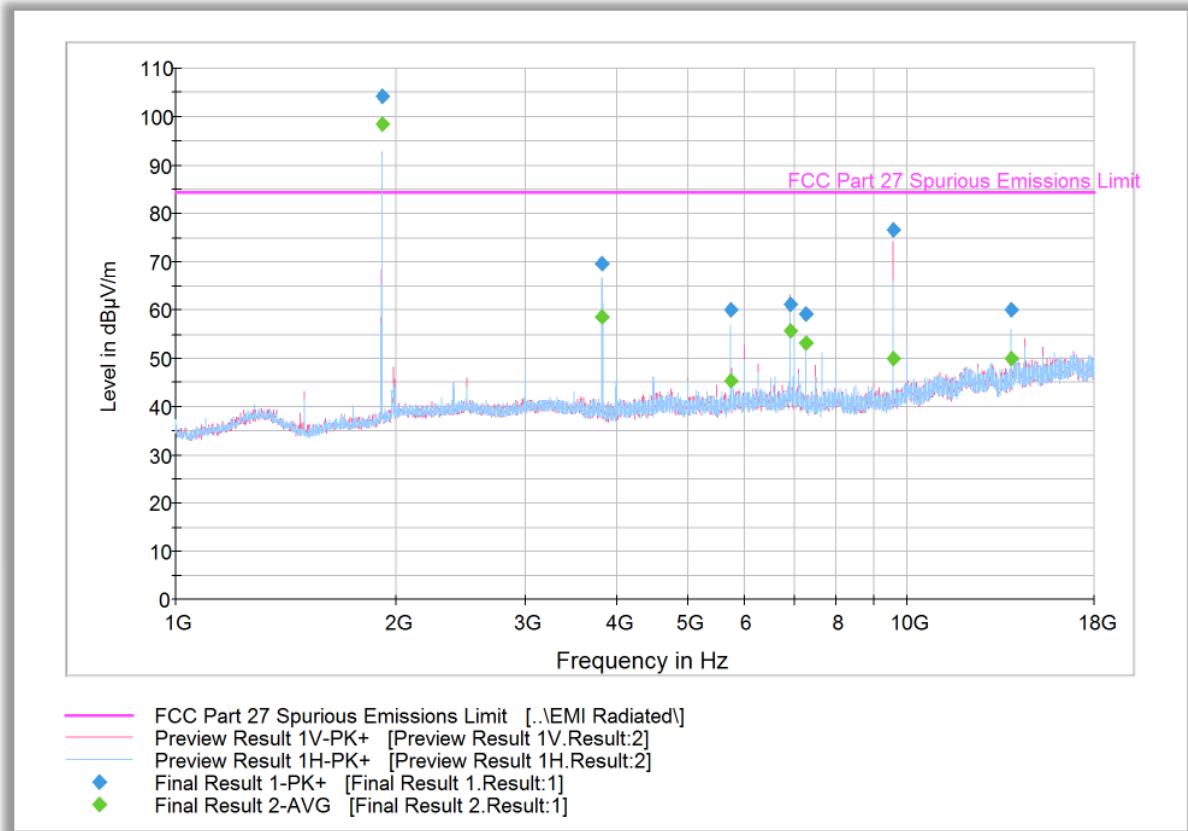
Average Data

| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|----------------------|----------------|
| 1882.500000 | 95.4 | 1000.0 | 1000.000 | 195.5 | V | 261.0 | -2.7 | Fundamental Carrier* | |
| 3765.166667 | 59.1 | 1000.0 | 1000.000 | 165.6 | H | 185.0 | 2.0 | 25.3 | 84.4 |
| 5647.600000 | 52.2 | 1000.0 | 1000.000 | 302.2 | V | 177.0 | 5.0 | 32.2 | 84.4 |
| 6915.100000 | 59.4 | 1000.0 | 1000.000 | 302.2 | V | 124.0 | 6.7 | 25.0 | 84.4 |
| 7248.066667 | 46.1 | 1000.0 | 1000.000 | 252.3 | V | 233.0 | 7.0 | 38.3 | 84.4 |
| 9412.933333 | 48.2 | 1000.0 | 1000.000 | 195.5 | H | 194.0 | 8.7 | 36.2 | 84.4 |
| 13829.566667 | 52.6 | 1000.0 | 1000.000 | 291.2 | H | 336.0 | 14.1 | 31.8 | 84.4 |

* This is the fundamental frequency not part of spurious emission evaluation. Data provided for information purpose only.



2.8.28 Radiated Emission Test Results Above 1GHz_Worst Case Configuration_LTE Band 25_1.4 MHz Bandwidth High Channel_1 RB 3 offset_QPSK



Peak Data

| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|----------------------|----------------|
| 1914.233333 | 104.4 | 1000.0 | 1000.000 | 209.4 | V | 96.0 | -2.4 | Fundamental Carrier* | |
| 3828.633333 | 69.7 | 1000.0 | 1000.000 | 101.7 | H | 101.0 | 2.3 | 14.7 | 84.4 |
| 5743.200000 | 60.1 | 1000.0 | 1000.000 | 102.7 | H | 183.0 | 5.3 | 24.3 | 84.4 |
| 6914.433333 | 61.2 | 1000.0 | 1000.000 | 252.3 | V | 197.0 | 6.7 | 23.2 | 84.4 |
| 7247.866667 | 59.1 | 1000.0 | 1000.000 | 281.3 | V | 64.0 | 7.0 | 25.3 | 84.4 |
| 9572.166667 | 76.6 | 1000.0 | 1000.000 | 165.6 | V | 200.0 | 8.8 | 7.8 | 84.4 |
| 13828.333333 | 60.0 | 1000.0 | 1000.000 | 291.2 | V | 150.0 | 14.1 | 24.4 | 84.4 |

Average Data

| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|----------------------|----------------|
| 1914.233333 | 98.5 | 1000.0 | 1000.000 | 209.4 | V | 96.0 | -2.4 | Fundamental Carrier* | |
| 3828.633333 | 58.6 | 1000.0 | 1000.000 | 101.7 | H | 101.0 | 2.3 | 25.8 | 84.4 |
| 5743.200000 | 45.5 | 1000.0 | 1000.000 | 102.7 | H | 183.0 | 5.3 | 38.9 | 84.4 |
| 6914.433333 | 55.7 | 1000.0 | 1000.000 | 252.3 | V | 197.0 | 6.7 | 28.7 | 84.4 |
| 7247.866667 | 53.1 | 1000.0 | 1000.000 | 281.3 | V | 64.0 | 7.0 | 31.3 | 84.4 |
| 9572.166667 | 49.9 | 1000.0 | 1000.000 | 165.6 | V | 200.0 | 8.8 | 34.5 | 84.4 |
| 13828.333333 | 49.9 | 1000.0 | 1000.000 | 291.2 | V | 150.0 | 14.1 | 34.5 | 84.4 |

* This is the fundamental frequency not part of spurious emission evaluation. Data provided for information purpose only.



2.9 FREQUENCY STABILITY

2.9.1 Specification Reference

FCC 47 CFR Part 2, Clause 2.1055
FCC 47 CFR Part 22, Clause 22.355
FCC 47 CFR Part 24, Clause 24.235
RSS-132, Clause 5.3
RSS-133, Clause 6.3

2.9.2 Standard Applicable

FCC Part 22, Clause 22.355:
Except as otherwise provided in this part, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table C-1 of this section.

Table C-1—Frequency Tolerance for Transmitters in the Public Mobile Services

| Frequency range (MHz) | Mobile ≤ 3 watts (ppm) |
|-----------------------|-----------------------------|
| 821 to 896 | 2.5 |

FCC Part 24, Clause 24.235:
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

RSS-132, Clause 5.3:
The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

RSS-133, Clause 6.3:
The carrier frequency shall not depart from the reference frequency, in excess of ± 2.5 ppm for mobile stations.

2.9.3 Equipment Under Test and Modification State

Serial No: AT071218B00062 (MIFI8000), AZ280418A00044 (MIFI8800L) / Test Configuration A

2.9.4 Date of Test/Initial of test personnel who performed the test

April 19, 2019 / XYZ
July 11, 2018 / XYZ

2.9.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.



2.9.6 Environmental Conditions/ Test Location

Test performed at TÜV SÜD America Inc. Rancho Bernardo facility

Ambient Temperature 25.6 - 25.7 °C
 Relative Humidity 47.6 - 54.1 %
 ATM Pressure 98.7 - 98.9 kPa

2.9.7 Additional Observations

- This is a conducted test. The EUT was operated at 3.7VDC nominal voltage and was placed in the temperature chamber for this evaluation. The EUT was controlled by a CMW500 and utilizing a spectrum analyzer for measurement.
- Test performed in 5 MHz Bandwidth Middle channel as the representative configuration.
- Measurement was done using the CMW 500 measurement function.
- The EUT was tested over the temperature -30°C to +50°C in 10°C steps and allowed to sit for 1 hour to allow the equipment and chamber temperature to stabilize. The measurements were then performed.
- Voltage variation was also performed at voltage 3.3VDC and higher 4.3VDC of the nominal voltage at 20°C.

2.9.8 Test Results

| WCDMA Band 2 – QPSK 5 MHz BW-Middle Channel 1880 MHz | | | | |
|------------------------------------------------------|------------------|----------------------|-----------------------|-------------|
| Voltage (VDC) | Temperature (°C) | Frequency Error (Hz) | Frequency Error (ppm) | Limit (ppm) |
| 3.7 | -30 | 16.47 | 0.0088 | ± 2.5 |
| | -20 | 16.76 | 0.0089 | ± 2.5 |
| | -10 | 16.92 | 0.009 | ± 2.5 |
| | 0 | 16.24 | 0.0086 | ± 2.5 |
| | +10 | 15.94 | 0.0085 | ± 2.5 |
| | +20 | 17.02 | 0.009 | ± 2.5 |
| | +30 | 18.3 | 0.0097 | ± 2.5 |
| | +40 | 16.58 | 0.0088 | ± 2.5 |
| 3.3 | 20 | 17.72 | 0.009 | ± 2.5 |
| 4.3 | | 16.54 | 0.008 | ± 2.5 |



| WCDMA Band 5 – QPSK 5 MHz BW-Middle Channel 836.5 MHz | | | | |
|-------------------------------------------------------|------------------|----------------------|-----------------------|-------------|
| Voltage (VDC) | Temperature (°C) | Frequency Error (Hz) | Frequency Error (ppm) | Limit (ppm) |
| 3.7 | -30 | -2.99 | -0.0036 | ± 2.5 |
| | -20 | -3.81 | -0.0046 | ± 2.5 |
| | -10 | -3.62 | -0.0043 | ± 2.5 |
| | 0 | -3.73 | -0.0045 | ± 2.5 |
| | +10 | -2.82 | -0.0034 | ± 2.5 |
| | +20 | -3.58 | -0.0043 | ± 2.5 |
| | +30 | -3.75 | -0.0045 | ± 2.5 |
| | +40 | -4.1 | -0.0049 | ± 2.5 |
| | +50 | -2.8 | -0.0034 | ± 2.5 |
| 3.3 | 20 | -3.6 | -0.0043 | ± 2.5 |
| 4.3 | | -3.07 | -0.0037 | ± 2.5 |

| LTE Band 2 – QPSK 5 MHz BW-Middle Channel 1880 MHz | | | | |
|----------------------------------------------------|------------------|----------------------|-----------------------|-------------|
| Voltage (VDC) | Temperature (°C) | Frequency Error (Hz) | Frequency Error (ppm) | Limit (ppm) |
| 3.7 | -30 | 24.06 | 0.0128 | ± 2.5 |
| | -20 | 21.62 | 0.0115 | ± 2.5 |
| | -10 | 22.72 | 0.0121 | ± 2.5 |
| | 0 | 22.07 | 0.0117 | ± 2.5 |
| | +10 | 22.16 | 0.0118 | ± 2.5 |
| | +20 | 21.09 | 0.0112 | ± 2.5 |
| | +30 | 19.34 | 0.0103 | ± 2.5 |
| | +40 | 19.37 | 0.0103 | ± 2.5 |
| | +50 | 18.08 | 0.0096 | ± 2.5 |
| 3.3 | 20 | 17.34 | 0.0092 | ± 2.5 |
| 4.3 | | 17.48 | 0.0093 | ± 2.5 |



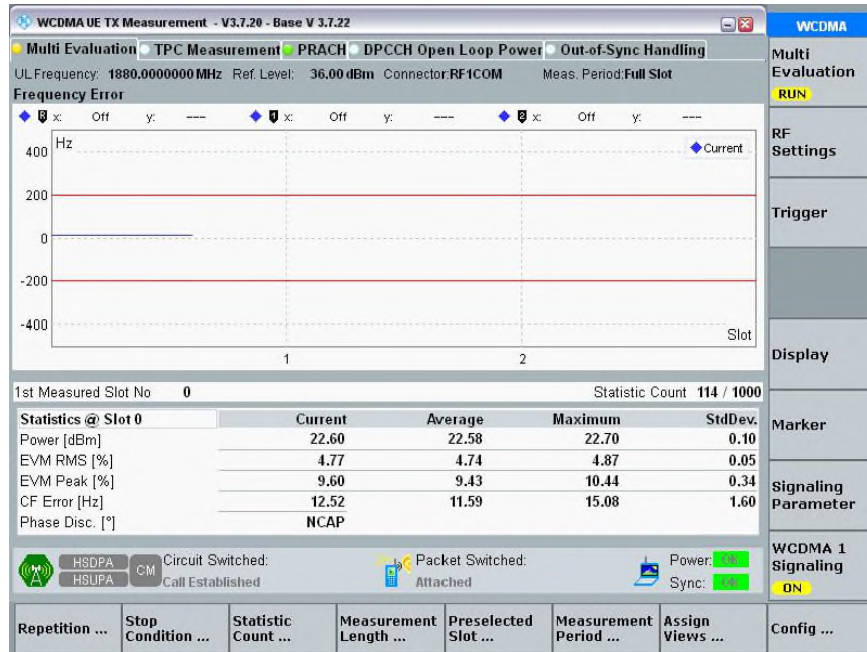
| LTE Band 5/26 (824 – 849 MHz) – QPSK 5 MHz BW-Middle Channel 836.5 MHz | | | | |
|------------------------------------------------------------------------|------------------|----------------------|-----------------------|-------------|
| Voltage (VDC) | Temperature (°C) | Frequency Error (Hz) | Frequency Error (ppm) | Limit (ppm) |
| 3.7 | -30 | -10.83 | -0.013 | ± 2.5 |
| | -20 | -8.33 | -0.01 | ± 2.5 |
| | -10 | -9.11 | -0.0109 | ± 2.5 |
| | 0 | -8.78 | -0.0105 | ± 2.5 |
| | +10 | -9.44 | -0.0113 | ± 2.5 |
| | +20 | -11.59 | -0.0139 | ± 2.5 |
| | +30 | -10.46 | -0.0125 | ± 2.5 |
| | +40 | -10.5 | -0.0126 | ± 2.5 |
| 3.3 | 20 | 8.98 | -0.0107 | ± 2.5 |
| 4.3 | | -7.7 | -0.0092 | ± 2.5 |

| LTE Band 25 – QPSK 5 MHz BW-Middle Channel 1882.5 MHz | | | | |
|-------------------------------------------------------|------------------|----------------------|-----------------------|--------------|
| Voltage (VDC) | Temperature (°C) | Frequency Error (Hz) | Frequency Error (ppm) | Limit (ppm)* |
| 3.7 | -30 | -18.68 | -0.0099 | ± 0.1 |
| | -20 | -11.12 | -0.0059 | ± 0.1 |
| | -10 | -13.46 | -0.0072 | ± 0.1 |
| | 0 | -10.97 | -0.0058 | ± 0.1 |
| | +10 | -10.30 | -0.0055 | ± 0.1 |
| | +20 | -11.69 | -0.0062 | ± 0.1 |
| | +30 | -13.55 | -0.0072 | ± 0.1 |
| | +40 | -10.96 | -0.0058 | ± 0.1 |
| 3.3 | 20 | -14.73 | -0.0078 | ± 0.1 |
| 4.3 | | -15.76 | -0.0084 | ± 0.1 |

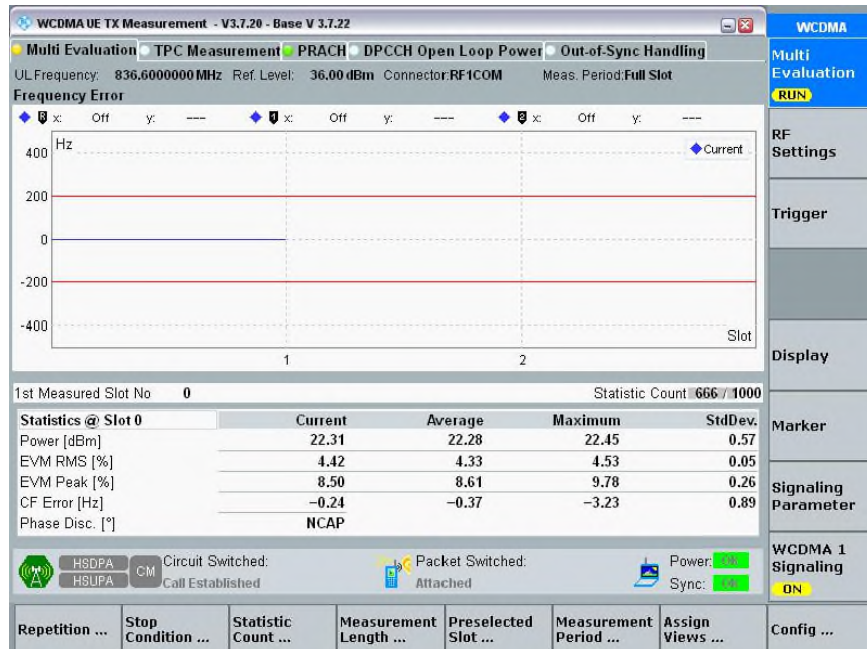
*Limit according to 3GPP TS 36 101 V14.4.0

The frequency stability of the EUT is sufficient to keep it within the authorised frequency ranges at any temperature interval and voltage variations across the measured range.

2.9.9 Sample Test plot



WCDMA Band 2_Middle Channel @20°C



WCDMA Band 5_Middle Channel @20°C



| CMW 500 V 3.7.22 - LTE Measurement - V3.7.30 - TX Measurement | | | | | | | | | | LTE |
|---------------------------------------------------------------------------------------------|------------------------|---------------------|-----------------------|---------------------------|--------------|------------------------|--------|------|------|---------------------|
| Multi Evaluation PRACH SRS | | | | | | | | | | Multi Evaluation |
| FDD Freq: 1880.0 MHz Ref. Level: 40.70 dBm BW: 5.0 MHz CP: Normal Meas Subfr./Slot: 0 / All | | | | | | | | | | Run |
| TX Measurement | | | | | | | | | | |
| Detected Allocation | NoRB: | 25 OffsetRB: | | | 0 | | | | | |
| | | Current | Average | Extreme | StdDev | | | | | |
| EVM RMS [%] I/h | | 3.87 | 4.03 | 3.76 | 3.91 | 3.92 | 4.07 | 0.12 | 0.13 | RF Settings |
| EVM Peak [%] I/h | | 29.98 | 30.03 | 26.94 | 30.17 | 31.04 | 31.83 | 3.35 | 0.48 | Trigger |
| EVM DMRS [%] I/h | | 2.47 | 2.38 | 2.43 | 2.59 | 2.64 | 2.92 | 0.09 | 0.16 | |
| MErr RMS [%] I/h | | 3.34 | 3.50 | 3.27 | 3.41 | 3.37 | 3.52 | 0.09 | 0.09 | Display |
| MErr Peak [%] I/h | | -29.72 | -29.78 | 26.77 | 29.77 | -30.82 | -31.05 | 3.32 | 0.48 | |
| MErr DMRS [%] I/h | | 2.01 | 1.94 | 1.97 | 2.06 | 2.11 | 2.26 | 0.06 | 0.09 | Signaling Parameter |
| PhErr RMS [°] I/h | | 1.13 | 1.17 | 1.08 | 1.11 | 1.17 | 1.20 | 0.05 | 0.05 | |
| PhErr Peak [°] I/h | | -6.10 | 7.72 | 7.05 | 7.70 | -8.68 | -9.78 | 0.61 | 0.45 | LTE Signaling |
| PhErr DMRS [°] I/h | | 0.82 | 0.78 | 0.80 | 0.89 | 0.99 | 1.14 | 0.04 | 0.09 | |
| IQ Offset [dBc] | | -50.55 | | -51.45 | | -48.87 | | 0.86 | | Run |
| IQ Gain Imbalance [dB] | | -0.10 | | -0.11 | | -0.13 | | 0.01 | | |
| IQ Quadrature Error [°] | | -0.38 | | -0.38 | | -0.44 | | 0.02 | | Config ... |
| Freq Error [Hz] | | 9.96 | | 7.70 | | 21.09 | | 3.26 | | |
| Timing Error [Ts] | | 1.58 | | 1.81 | | 6.33 | | 0.17 | | |
| OBW [MHz] | | 4.43 | | 4.43 | | 4.44 | | 0.01 | | |
| | | Current | Average | Min | Max | StdDev | | | | |
| TX Power [dBm] | | 21.57 | 21.47 | 21.62 | 21.62 | 0.01 | | | | |
| Peak Power [dBm] | | 26.38 | 26.33 | 26.79 | 26.74 | 0.12 | | | | |
| Statistic Count | Out of Tolerance | Detected Modulation | | Detected Channel Type | | View Filter Throughput | | | | |
| 20 / 20 | 0.00 % | QPSK | | PUSCH | | 100.0 % | | | | |
| PS: | Connection Established | | | | | | | | | |
| | RRC State: Connected | | | | | | | | | |
| Repetition ... | Stop Condition ... | Statistic Count ... | Channel Bandwidth ... | Measurement Subframes ... | Assign Views | | | | | |

LTE Band 2_5 MHz Bandwidth_Middle Channel @20°C

| CMW 500 V 3.7.22 - LTE Measurement - V3.7.30 - TX Measurement | | | | | | | | | | LTE |
|--------------------------------------------------------------------------------------------|------------------------|---------------------|-----------------------|---------------------------|--------------|------------------------|--------|------|------|---------------------|
| Multi Evaluation PRACH SRS | | | | | | | | | | Multi Evaluation |
| FDD Freq: 836.5 MHz Ref. Level: 40.30 dBm BW: 5.0 MHz CP: Normal Meas Subfr./Slot: 0 / All | | | | | | | | | | Run |
| TX Measurement | | | | | | | | | | |
| Detected Allocation | NoRB: | 25 OffsetRB: | | | 0 | | | | | |
| | | Current | Average | Extreme | StdDev | | | | | |
| EVM RMS [%] I/h | | 3.27 | 3.41 | 3.39 | 3.55 | 3.54 | 3.70 | 0.12 | 0.13 | RF Settings |
| EVM Peak [%] I/h | | 22.54 | 28.81 | 26.19 | 29.90 | 30.86 | 30.89 | 3.84 | 0.46 | Trigger |
| EVM DMRS [%] I/h | | 2.00 | 2.43 | 2.08 | 2.26 | 2.24 | 2.53 | 0.10 | 0.19 | |
| MErr RMS [%] I/h | | 2.88 | 3.03 | 3.00 | 3.15 | 3.12 | 3.28 | 0.11 | 0.11 | Display |
| MErr Peak [%] I/h | | -22.34 | -28.31 | 26.04 | 29.58 | -30.73 | -30.76 | 3.89 | 0.58 | |
| MErr DMRS [%] I/h | | 1.67 | 1.93 | 1.71 | 1.82 | 1.83 | 1.98 | 0.06 | 0.10 | Signaling Parameter |
| PhErr RMS [°] I/h | | 0.90 | 0.92 | 0.92 | 0.95 | 0.97 | 1.01 | 0.03 | 0.04 | |
| PhErr Peak [°] I/h | | -6.89 | -7.71 | 6.46 | 7.20 | -8.11 | -8.92 | 0.72 | 0.57 | LTE Signaling |
| PhErr DMRS [°] I/h | | 0.63 | 0.85 | 0.67 | 0.76 | 0.76 | 0.91 | 0.05 | 0.10 | |
| IQ Offset [dBc] | | -51.43 | | -51.25 | | -49.15 | | 0.58 | | Run |
| IQ Gain Imbalance [dB] | | -0.09 | | -0.08 | | -0.10 | | 0.01 | | |
| IQ Quadrature Error [°] | | -0.01 | | -0.02 | | -0.08 | | 0.02 | | Config ... |
| Freq Error [Hz] | | -10.93 | | -4.82 | | -11.59 | | 2.32 | | |
| Timing Error [Ts] | | 4.38 | | 4.43 | | 5.14 | | 0.15 | | |
| OBW [MHz] | | 4.43 | | 4.43 | | 4.44 | | 0.01 | | |
| | | Current | Average | Min | Max | StdDev | | | | |
| TX Power [dBm] | | 21.62 | 21.61 | 21.54 | 21.66 | 0.00 | | | | |
| Peak Power [dBm] | | 26.78 | 26.74 | 26.53 | 26.87 | 0.09 | | | | |
| Statistic Count | Out of Tolerance | Detected Modulation | | Detected Channel Type | | View Filter Throughput | | | | |
| 20 / 20 | 0.00 % | QPSK | | PUSCH | | 100.0 % | | | | |
| PS: | Connection Established | | | | | | | | | |
| | RRC State: Connected | | | | | | | | | |
| Repetition ... | Stop Condition ... | Statistic Count ... | Channel Bandwidth ... | Measurement Subframes ... | Assign Views | | | | | |

LTE Band 5/26 (824 – 849 MHz)_5 MHz Bandwidth_Middle Channel @20°C



| CMW 500 V 3.7.50 - LTE Measurement - V3.7.50 - TX Measurement | | | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------|-----------------------|---------------------------|--------------|------------|--------|
| Multi Evaluation PRACH SRS | | | | | | | |
| FDD Freq: 1882.5 MHz Ref. Level: 41.00 dBm BW: 5.0 MHz CP: Normal Meas Subfr./Slot: 0 / All | | | | | | | |
| TX Measurement | | | | | | | |
| | Current | | Average | | Extreme | | StdDev |
| EVM RMS [%] I/h | 3.20 | 3.29 | 3.29 | 3.42 | 3.41 | 3.59 | 0.07 |
| EVM Peak [%] I/h | 27.29 | 27.28 | 24.89 | 27.33 | 28.37 | 28.57 | 2.61 |
| EVM DMRS [%] I/h | 2.05 | 2.42 | 2.12 | 2.43 | 2.37 | 2.62 | 0.05 |
| MErr RMS [%] I/h | 2.82 | 2.92 | 2.90 | 3.02 | 3.00 | 3.16 | 0.08 |
| MErr Peak [%] I/h | -26.94 | -26.93 | 24.58 | 27.13 | -28.10 | -28.47 | 2.64 |
| MErr DMRS [%] I/h | 1.65 | 1.87 | 1.73 | 1.92 | 1.89 | 2.06 | 0.07 |
| PhErr RMS [°] I/h | 0.88 | 0.89 | 0.91 | 0.94 | 0.97 | 1.01 | 0.02 |
| PhErr Peak [°] I/h | -5.84 | -6.59 | 6.91 | 7.46 | -9.03 | -10.02 | 0.69 |
| PhErr DMRS [°] I/h | 0.70 | 0.88 | 0.70 | 0.85 | 0.86 | 0.99 | 0.03 |
| IQ Offset [dBc] | | -64.94 | | -63.03 | | -56.97 | 4.33 |
| IQ Gain Imbalance [dB] | | -0.05 | | -0.05 | | -0.07 | 0.01 |
| IQ Quadrature Error [°] | | -0.41 | | -0.37 | | -0.48 | 0.06 |
| Freq Error [Hz] | | 1.10 | | -0.72 | | -11.69 | 2.73 |
| Timing Error [Ts] | | 4.50 | | 4.61 | | 5.47 | 0.32 |
| OBW [MHz] | | 4.41 | | 4.42 | | 4.43 | 0.01 |
| | Current | | Average | | Min | | Max |
| TX Power [dBm] | | 22.12 | | 22.12 | | 22.02 | 22.18 |
| Peak Power [dBm] | | 27.59 | | 27.58 | | 27.17 | 27.68 |
| RB Power [dBm] | | 8.18 | | 8.17 | | 8.06 | 8.23 |
| | | | | | | | StdDev |
| | | | | | | | 0.02 |
| | | | | | | | 0.04 |
| | | | | | | | 0.02 |
| Statistic Count: 20 / 20 Out of Tolerance: 0.00 % Detected Modulation: QPSK Detected Channel Type: PUSCH View Filter Throughput: 100.0 % | | | | | | | |
| PS: Connection Established RRC State: Connected | | | | | | | |
| LTE Signaling: ON | | | | | | | |
| Repetition ... | Stop Condition ... | Statistic Count ... | Channel Bandwidth ... | Measurement Subframes ... | Assign Views | Config ... | |

LTE Band 25_5 MHz Bandwidth_Middle Channel @20°C



2.10 CONDUCTED EMISSIONS

2.10.1 Specification Reference

FCC CFR 47 Part 15, Clause 15.207(a)
 RSS-Gen, Section 8.8

2.10.2 Standard Applicable

An intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).

| Frequency of emission (MHz) | Conducted limit (dB μ V) | |
|-----------------------------|------------------------------|-----------|
| | Quasi-peak | Average |
| 0.15–0.5 | 66 to 56* | 56 to 46* |
| 0.5–5 | 56 | 46 |
| 5–30 | 60 | 50 |

**Decreases with the logarithm of the frequency.*

2.10.3 Equipment Under Test and Modification State

Serial No: AZ280418A00044 (MIFI8800L) / Test Configuration B

2.10.4 Date of Test/Initial of test personnel who performed the test

April 26, 2019 / XYZ

2.10.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.10.6 Environmental Conditions/ Test Location

Test performed at TÜV SÜD America Inc. Rancho Bernardo facility

Ambient Temperature 23.1 °C
 Relative Humidity 53.6 %
 ATM Pressure 99.1 kPa

2.10.7 Additional Observations

Measurement was done using EMC32 automated software. Reported level is the actual level with all the correction factors factored in. Correction Factor column is for informational purposes only. See Section 2.1.8 for sample computation.



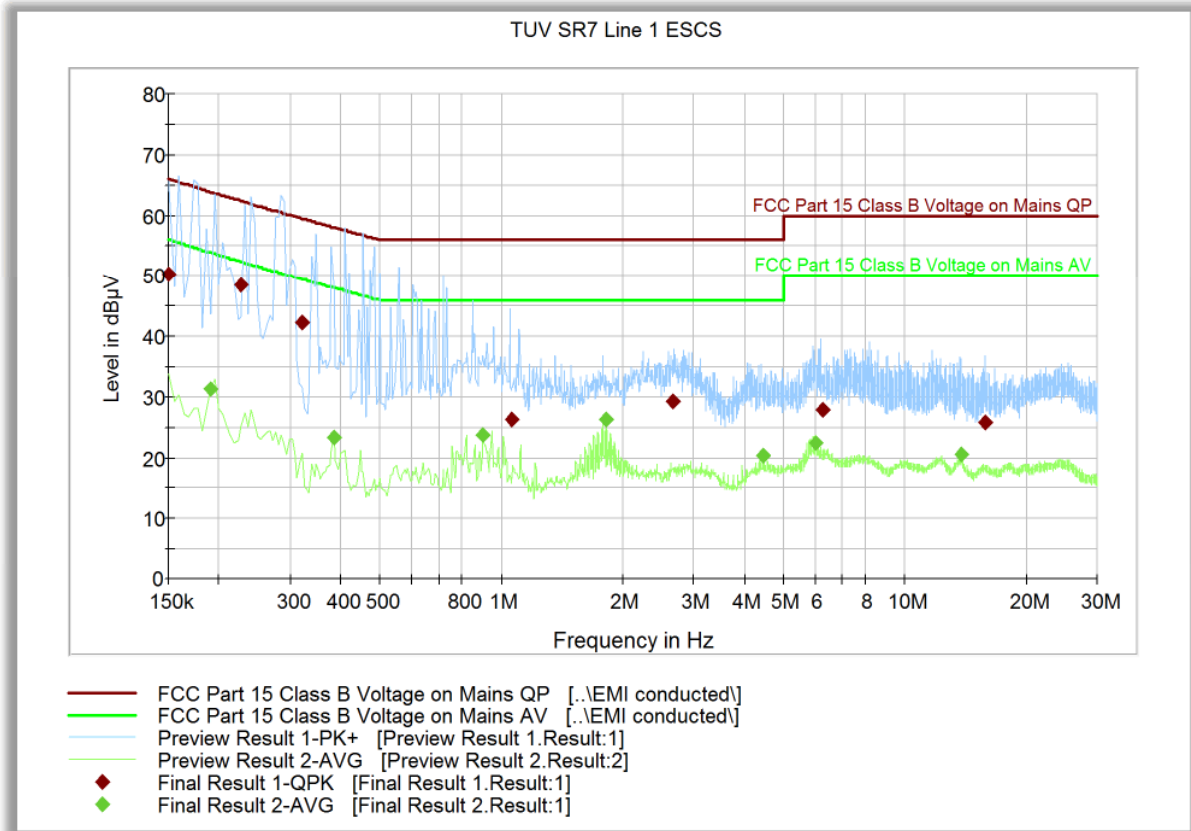
2.10.8 Sample Computation (Conducted Emission – Quasi Peak)

| | | | |
|----------------------------------------------------------------------------|--------------------------------|------|-------------|
| Measuring equipment raw measurement (db μ V) @ 150kHz | | | 5.5 |
| Correction Factor (dB) | Asset# 8607 (20 dB attenuator) | 19.9 | 20.7 |
| | Asset# 1177 (cable) | 0.15 | |
| | Asset# 1176 (cable) | 0.35 | |
| | Asset# 7568 (LISN) | 0.30 | |
| Reported QuasiPeak Final Measurement (dbμV) @ 150kHz | | | 26.2 |

2.10.9 Test Results

Compliant. See attached plots and tables.

2.10.10 MIFI8000 120VAC 60Hz (Line 1)



Quasi Peak

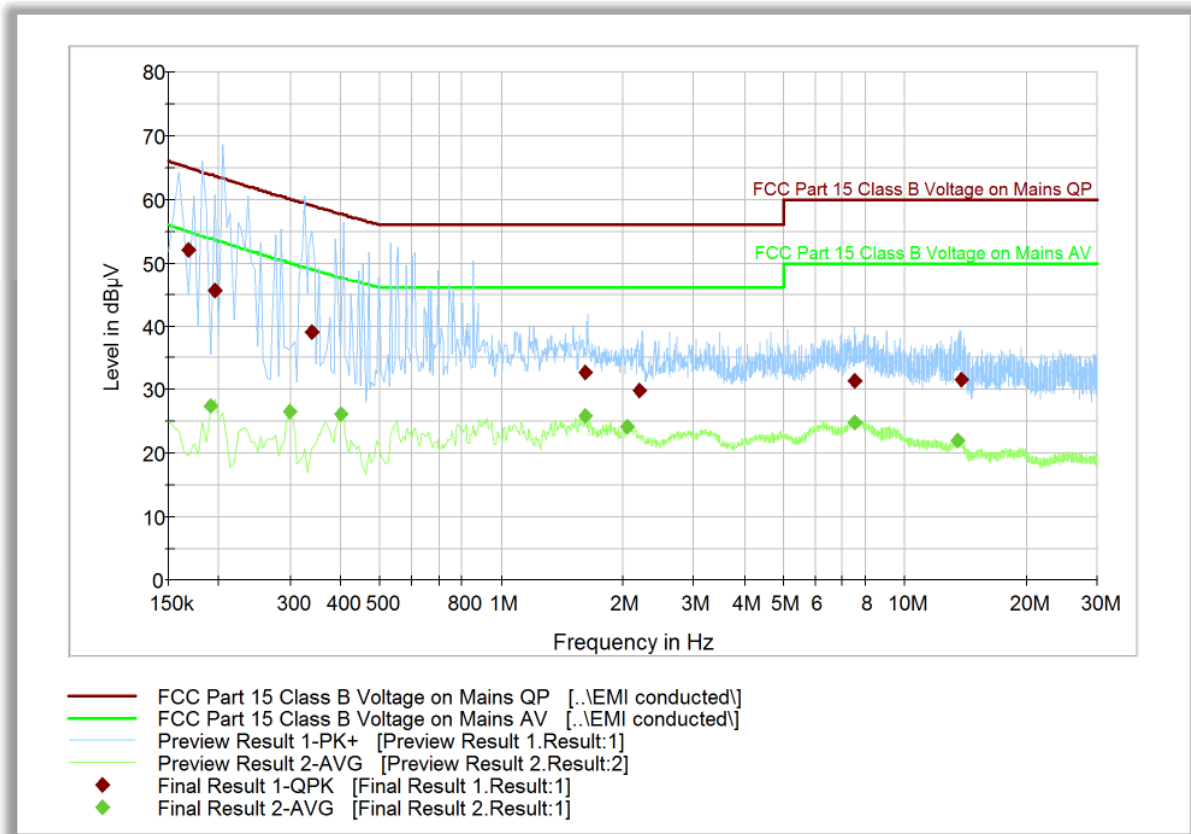
| Frequency (MHz) | QuasiPeak (dBµV) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin - QPK (dB) | Limit - QPK (dBµV) |
|-----------------|------------------|-----------------|-----------------|--------|------|------------|-------------------|--------------------|
| 0.150000 | 50.4 | 1000.0 | 9.000 | Off | L1 | 20.3 | 15.6 | 66.0 |
| 0.226500 | 48.5 | 1000.0 | 9.000 | Off | L1 | 20.2 | 13.9 | 62.4 |
| 0.321000 | 42.4 | 1000.0 | 9.000 | Off | L1 | 20.2 | 17.1 | 59.5 |
| 1.059000 | 26.4 | 1000.0 | 9.000 | Off | L1 | 20.1 | 29.6 | 56.0 |
| 2.656500 | 29.3 | 1000.0 | 9.000 | Off | L1 | 20.4 | 26.7 | 56.0 |
| 6.247500 | 27.8 | 1000.0 | 9.000 | Off | L1 | 20.4 | 32.2 | 60.0 |
| 15.819000 | 25.9 | 1000.0 | 9.000 | Off | L1 | 20.7 | 34.1 | 60.0 |

Average

| Frequency (MHz) | Average (dBµV) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin - Ave (dB) | Limit - Ave (dBµV) |
|-----------------|----------------|-----------------|-----------------|--------|------|------------|-------------------|--------------------|
| 0.190500 | 31.4 | 1000.0 | 9.000 | Off | L1 | 20.3 | 22.5 | 53.9 |
| 0.384000 | 23.3 | 1000.0 | 9.000 | Off | L1 | 20.3 | 24.8 | 48.0 |
| 0.901500 | 23.8 | 1000.0 | 9.000 | Off | L1 | 20.2 | 22.2 | 46.0 |
| 1.824000 | 26.4 | 1000.0 | 9.000 | Off | L1 | 20.0 | 19.6 | 46.0 |
| 4.465500 | 20.3 | 1000.0 | 9.000 | Off | L1 | 20.4 | 25.7 | 46.0 |
| 5.991000 | 22.4 | 1000.0 | 9.000 | Off | L1 | 20.4 | 27.6 | 50.0 |
| 13.762500 | 20.6 | 1000.0 | 9.000 | Off | L1 | 20.7 | 29.4 | 50.0 |



2.10.11 MIFI8000 120VAC 60Hz (Line 2)



Quasi Peak

| Frequency (MHz) | QuasiPeak (dBµV) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin - QPK (dB) | Limit - QPK (dBµV) |
|-----------------|------------------|-----------------|-----------------|--------|------|------------|-------------------|--------------------|
| 0.168000 | 52.1 | 1000.0 | 9.000 | Off | N | 20.2 | 12.9 | 65.0 |
| 0.195000 | 45.5 | 1000.0 | 9.000 | Off | N | 20.2 | 18.2 | 63.7 |
| 0.339000 | 39.0 | 1000.0 | 9.000 | Off | N | 20.2 | 20.0 | 59.0 |
| 1.608000 | 32.7 | 1000.0 | 9.000 | Off | N | 20.1 | 23.3 | 56.0 |
| 2.197500 | 29.8 | 1000.0 | 9.000 | Off | N | 20.4 | 26.2 | 56.0 |
| 7.498500 | 31.3 | 1000.0 | 9.000 | Off | N | 20.5 | 28.7 | 60.0 |
| 13.834500 | 31.6 | 1000.0 | 9.000 | Off | N | 20.7 | 28.4 | 60.0 |

Average

| Frequency (MHz) | Average (dBµV) | Meas. Time (ms) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin - Ave (dB) | Limit - Ave (dBµV) |
|-----------------|----------------|-----------------|-----------------|--------|------|------------|-------------------|--------------------|
| 0.190500 | 27.5 | 1000.0 | 9.000 | Off | N | 20.1 | 26.3 | 53.9 |
| 0.298500 | 26.7 | 1000.0 | 9.000 | Off | N | 20.1 | 23.3 | 50.0 |
| 0.402000 | 26.1 | 1000.0 | 9.000 | Off | N | 20.1 | 21.6 | 47.7 |
| 1.612500 | 26.0 | 1000.0 | 9.000 | Off | N | 20.1 | 20.0 | 46.0 |
| 2.053500 | 24.2 | 1000.0 | 9.000 | Off | N | 20.2 | 21.8 | 46.0 |
| 7.530000 | 24.9 | 1000.0 | 9.000 | Off | N | 20.5 | 25.1 | 50.0 |
| 13.483500 | 22.1 | 1000.0 | 9.000 | Off | N | 20.7 | 27.9 | 50.0 |



SECTION 3

TEST EQUIPMENT USED



3.1 TEST EQUIPMENT USED

List of absolute measuring and other principal items of test equipment.

| ID Number (SDGE/SDRB) | Test Equipment | Type | Serial Number | Manufacturer | Cal Date | Cal Due Date |
|------------------------------------------|--------------------------------------|--------------------|---------------|---------------------------|---------------------------|--------------|
| Antenna Conducted Port Setup | | | | | | |
| 7662 | P-Series Power Meter | N1911A | MY45100951 | Agilent | 06/15/18 | 06/15/19 |
| 7661 | 50MHz-18GHz Wideband Power Sensor | N1921A | MY45241383 | Agilent | 06/15/18 | 06/15/19 |
| 7608 | Vector Signal Generator | SMBV100A | 259021 | Rhode & Schwarz | 09/19/17 | 09/19/19 |
| 7582 | Signal/Spectrum Analyzer | FSW26 | 101614 | Rhode & Schwarz | 01/07/19 | 01/07/20 |
| - | Wideband Radio Communication Tester | CMW 500 | 165085 | Rhode & Schwarz | 07/17/18 | 07/17/19 |
| 8825 | 20dB Attenuator | 46-20-34 | BK5773 | Weinschel Corp. | Verified by 7608 and 7582 | |
| - | 10dB Attenuator | VAT-10W2+2W | N/A | MCL | Verified by 7608 and 7582 | |
| AC Conducted Emissions Test Setup | | | | | | |
| 1024 | EMI Test Receiver | ESCS 30 | 847793/001 | Rhode & Schwarz | 09/19/18 | 09/19/19 |
| 7567 | LISN | FCC-LISN-50-25-2 | 120304 | Fischer Custom Comm. | 12/14/17 | 12/14/19 |
| 8822 | 20dB Attenuator | 34-20-34 | N/A | MCE / Weinschel | Verified by 7608 and 7582 | |
| 8824 | 20dB Attenuator | 34-20-34 | N/A | MCE / Weinschel | Verified by 7608 and 7582 | |
| 7608 | Vector Signal Generator | SMBV100A | 259021 | Rhode & Schwarz | 09/19/17 | 09/19/19 |
| 7582 | Signal/Spectrum Analyzer | FSW26 | 101614 | Rhode & Schwarz | 01/07/19 | 01/07/20 |
| - | Wideband Radio Communication Tester | CMW 500 | 165085 | Rhode & Schwarz | 07/17/18 | 07/17/19 |
| Radiated Test Setup | | | | | | |
| 7582 | Signal/Spectrum Analyzer | FSW26 | 101614 | Rhode & Schwarz | 01/07/19 | 01/07/20 |
| 7608 | Vector Signal Generator | SMBV100A | 259021 | Rhode & Schwarz | 09/19/17 | 09/19/19 |
| 1002 | Bilog Antenna | 3142C | 00058717 | ETS-Lindgren | 11/20/17 | 11/20/19 |
| 7575 | Double-ridged waveguide horn antenna | 3117 | 00155511 | EMCO | 06/16/18 | 06/16/20 |
| 1016 | Pre-amplifier | PAM-0202 | 187 | A.H. Systems, Inc. | 03/08/19 | 03/08/20 |
| 8921 | High-frequency cable | SucoFlex 100 SX | N/A | Suhner | Verified by 7608 and 7582 | |
| 8923 | High-frequency cable | Micropore 19057793 | N/A | United Microwave Products | Verified by 7608 and 7582 | |
| 1040 | EMI Test Receiver | ESIB40 | 100292 | Rhode & Schwarz | 10/15/18 | 10/15/19 |
| 1049 | EMI Test Receiver | ESU | 100133 | Rhode & Schwarz | 07/13/18 | 07/13/19 |
| 8628 | Pre-amplifier | QLI-01182835-JO | 8986002 | Quinstar | 03/07/19 | 03/07/20 |
| - | Wideband Radio Communication Tester | CMW 500 | 165085 | Rhode & Schwarz | 07/17/18 | 07/17/19 |



| Miscellaneous | | | | | | |
|---------------|---------------------------------------------|---------|------------|-----------------|----------|----------|
| 6708 | Multimeter | 34401A | US36086974 | Hewlett Packard | 07/18/18 | 07/18/19 |
| 7579 | Temperature Chamber | 115 | 151617 | TestQuity | 08/24/18 | 08/24/19 |
| 7554 | Barometer/Temperature /Humidity Transmitter | iBTHX-W | 0400706 | Omega | 05/25/18 | 05/25/19 |
| | Test Software | EMC32 | V8.53 | Rhode & Schwarz | N/A | |



3.2 MEASUREMENT UNCERTAINTY

For a 95% confidence level, the measurement uncertainties for defined systems are:

3.2.1 Conducted Antenna Port Measurement

| | Input Quantity (Contribution) X_i | Value | Prob. Dist. | Divisor | $u_i(x)$ | $u_i(x)^2$ |
|-------------------------------|-------------------------------------|---------|-------------|---------|----------|------------|
| 1 | Receiver reading | 0.10 dB | Normal, k=1 | 1.000 | 0.10 | 0.01 |
| 2 | Cable attenuation | 1.00 dB | Normal, k=2 | 2.000 | 0.50 | 0.25 |
| 3 | Receiver sinewave accuracy | 0.08 dB | Normal, k=2 | 2.000 | 0.04 | 0.00 |
| 4 | Receiver pulse amplitude | 0.00 dB | Rectangular | 1.732 | 0.00 | 0.00 |
| 5 | Receiver pulse repetition rate | 0.00 dB | Rectangular | 1.732 | 0.00 | 0.00 |
| 6 | Noise floor proximity | 0.00 dB | Rectangular | 1.732 | 0.00 | 0.00 |
| 7 | Frequency interpolation | 0.10 dB | Rectangular | 1.732 | 0.06 | 0.00 |
| 8 | Mismatch | 0.07 dB | U-shaped | 1.414 | 0.05 | 0.00 |
| Combined standard uncertainty | | | Normal | | 0.52 dB | |
| Expanded uncertainty | | | Normal, k=2 | | 1.03 dB | |

3.2.2 Radiated Emission Measurements (Below 1GHz)

| | Input Quantity (Contribution) X_i | Value | Prob. Dist. | Divisor | $u_i(x)$ | $u_i(x)^2$ |
|-------------------------------|-------------------------------------|---------|-------------|---------|----------|------------|
| 1 | Receiver reading | 0.10 dB | Normal, k=1 | 1.000 | 0.10 | 0.01 |
| 2 | Attenuation: antenna-receiver | 0.20 dB | Normal, k=2 | 2.000 | 0.10 | 0.01 |
| 3 | Antenna factor AF | 0.75 dB | Normal, k=2 | 2.000 | 0.38 | 0.14 |
| 4 | Receiver sinewave accuracy | 0.45 dB | Normal, k=2 | 2.000 | 0.23 | 0.05 |
| 5 | Receiver pulse amplitude | 1.50 dB | Rectangular | 1.732 | 0.87 | 0.75 |
| 6 | Receiver pulse repetition rate | 1.50 dB | Rectangular | 1.732 | 0.87 | 0.75 |
| 7 | Noise floor proximity | 0.50 dB | Rectangular | 1.732 | 0.29 | 0.08 |
| 8 | Mismatch: antenna-receiver | 0.95 dB | U-shaped | 1.414 | 0.67 | 0.45 |
| 9 | AF frequency interpolation | 0.30 dB | Rectangular | 1.732 | 0.17 | 0.03 |
| 10 | AF height deviations | 0.10 dB | Rectangular | 1.732 | 0.06 | 0.00 |
| 11 | Directivity difference at 3 m | 3.12 dB | Rectangular | 1.732 | 1.80 | 3.24 |
| 12 | Phase center location at 3 m | 1.00 dB | Rectangular | 1.732 | 0.58 | 0.33 |
| 13 | Cross-polarisation | 0.90 dB | Rectangular | 1.732 | 0.52 | 0.27 |
| 14 | Balance | 0.00 dB | Rectangular | 1.732 | 0.00 | 0.00 |
| 15 | Site imperfections | 3.76 dB | Triangular | 2.449 | 1.54 | 2.36 |
| 16 | Separation distance at 3 m | 0.30 dB | Rectangular | 1.732 | 0.17 | 0.03 |
| 17 | Effect of setup table material | 0.77 dB | Rectangular | 1.732 | 0.44 | 0.20 |
| 18 | Table height at 3 m | 0.10 dB | Normal, k=2 | 2.000 | 0.05 | 0.00 |
| 19 | Near-field effects | 0.00 dB | Triangular | 2.449 | 0.00 | 0.00 |
| 20 | Effect of ambient noise on OATS | 0.00 dB | | | | 0.00 |
| Combined standard uncertainty | | | Normal | | 2.95 dB | |
| Expanded uncertainty | | | Normal, k=2 | | 5.90 dB | |



3.2.3 Radiated Emission Measurements (Above 1GHz)

| | Input Quantity (Contribution) X_i | Value | Prob. Dist. | Divisor | $u_i(x)$ | $u_i(x)^2$ |
|-------------------------------|-------------------------------------|---------|-------------|-------------|----------|------------|
| 1 | Receiver reading | 0.10 dB | Normal, k=1 | 1.000 | 0.10 | 0.01 |
| 2 | Attenuation: antenna-receiver | 0.20 dB | Normal, k=2 | 2.000 | 0.10 | 0.01 |
| 3 | Antenna factor AF | 0.75 dB | Normal, k=2 | 2.000 | 0.38 | 0.14 |
| 4 | Receiver sinewave accuracy | 0.45 dB | Normal, k=2 | 2.000 | 0.23 | 0.05 |
| 5 | Receiver pulse amplitude | 1.50 dB | Rectangular | 1.732 | 0.87 | 0.75 |
| 6 | Receiver pulse repetition rate | 1.50 dB | Rectangular | 1.732 | 0.87 | 0.75 |
| 7 | Noise floor proximity | 0.50 dB | Rectangular | 1.732 | 0.29 | 0.08 |
| 8 | Mismatch: antenna-receiver | 0.95 dB | U-shaped | 1.414 | 0.67 | 0.45 |
| 9 | AF frequency interpolation | 0.30 dB | Rectangular | 1.732 | 0.17 | 0.03 |
| 10 | AF height deviations | 0.10 dB | Rectangular | 1.732 | 0.06 | 0.00 |
| 11 | Directivity difference at 3 m | 3.12 dB | Rectangular | 1.732 | 1.80 | 3.24 |
| 12 | Phase center location at 3 m | 1.00 dB | Rectangular | 1.732 | 0.58 | 0.33 |
| 13 | Cross-polarisation | 0.90 dB | Rectangular | 1.732 | 0.52 | 0.27 |
| 14 | Balance | 0.00 dB | Rectangular | 1.732 | 0.00 | 0.00 |
| 15 | Site imperfections | 3.25 dB | Triangular | 2.449 | 1.33 | 1.76 |
| 16 | Separation distance at 3 m | 0.30 dB | Rectangular | 1.732 | 0.17 | 0.03 |
| 17 | Effect of setup table material | 0.77 dB | Rectangular | 1.732 | 0.44 | 0.20 |
| 18 | Table height at 3 m | 0.10 dB | Normal, k=2 | 2.000 | 0.05 | 0.00 |
| 19 | Near-field effects | 0.00 dB | Triangular | 2.449 | 0.00 | 0.00 |
| 20 | Effect of ambient noise on OATS | 0.00 dB | | | | 0.00 |
| Combined standard uncertainty | | | | Normal | 2.85 dB | |
| Expanded uncertainty | | | | Normal, k=2 | 5.70 dB | |

3.2.4 Conducted Measurements

| | Input Quantity (Contribution) X_i | Value | Prob. Dist. | Divisor | $u_i(x)$ | $u_i(x)^2$ |
|-------------------------------|-------------------------------------|---------|-------------|-------------|----------|------------|
| 1 | Receiver reading | 0.10 dB | Normal, k=1 | 1.000 | 0.10 | 0.01 |
| 2 | LISN-receiver attenuation | 0.10 dB | Normal, k=2 | 2.000 | 0.05 | 0.00 |
| 3 | LISN voltage division factor | 0.30 dB | Normal, k=2 | 2.000 | 0.15 | 0.02 |
| 4 | Receiver sinewave accuracy | 0.36 dB | Normal, k=2 | 2.000 | 0.18 | 0.03 |
| 5 | Receiver pulse amplitude | 1.50 dB | Rectangular | 1.732 | 0.87 | 0.75 |
| 6 | Receiver pulse repetition rate | 1.50 dB | Rectangular | 1.732 | 0.87 | 0.75 |
| 7 | Noise floor proximity | 0.00 dB | Rectangular | 1.732 | 0.00 | 0.00 |
| 8 | AMN VDF frequency interpolation | 0.10 dB | Rectangular | 1.732 | 0.06 | 0.00 |
| 9 | Mismatch | 0.07 dB | U-shaped | 1.414 | 0.05 | 0.00 |
| 10 | LISN impedance | 2.65 dB | Triangular | 2.449 | 1.08 | 1.17 |
| 11 | Effect of mains disturbance | 0.00 dB | | | 0.00 | 0.00 |
| 12 | Effect of the environment | | | | | |
| Combined standard uncertainty | | | | Normal | 1.66 dB | |
| Expanded uncertainty | | | | Normal, k=2 | 3.31 dB | |



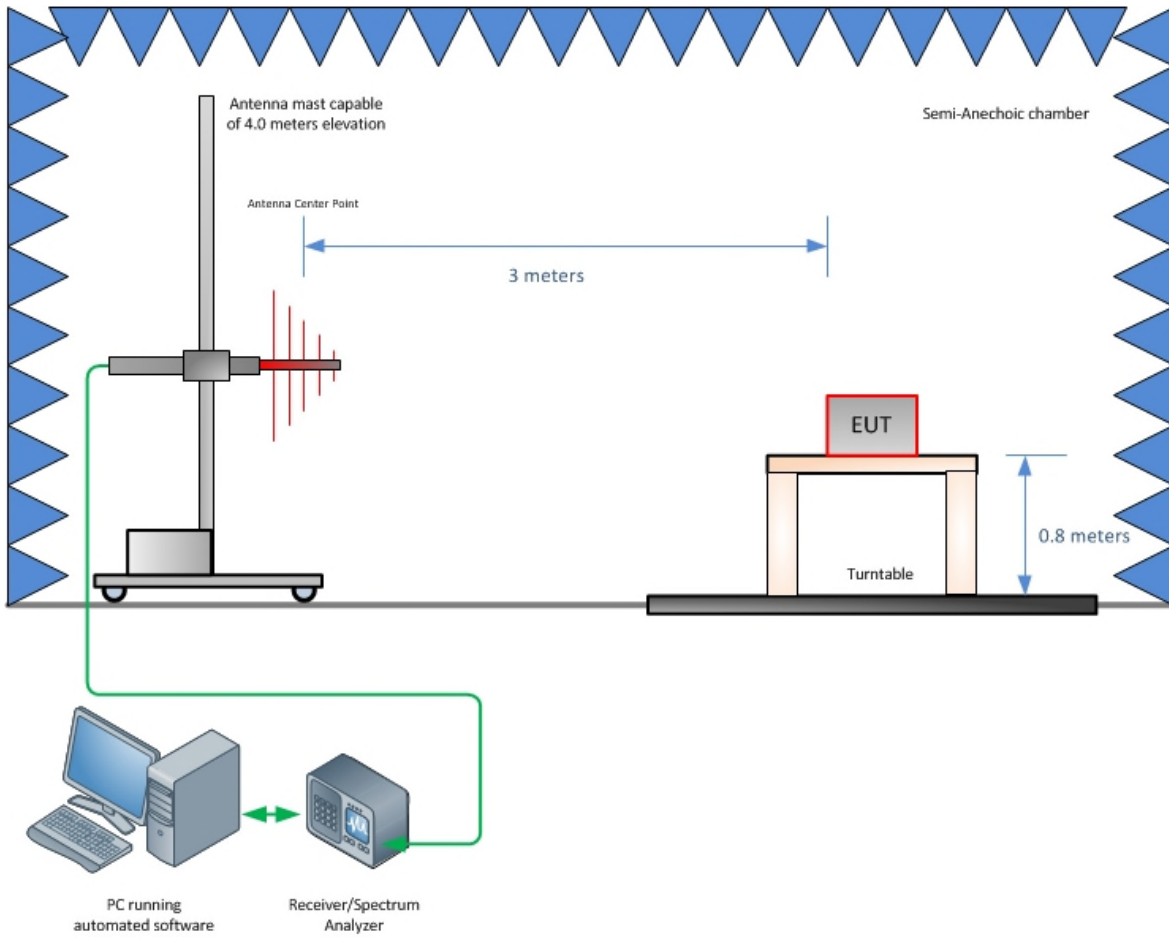
SECTION 4

DIAGRAM OF TEST SETUP

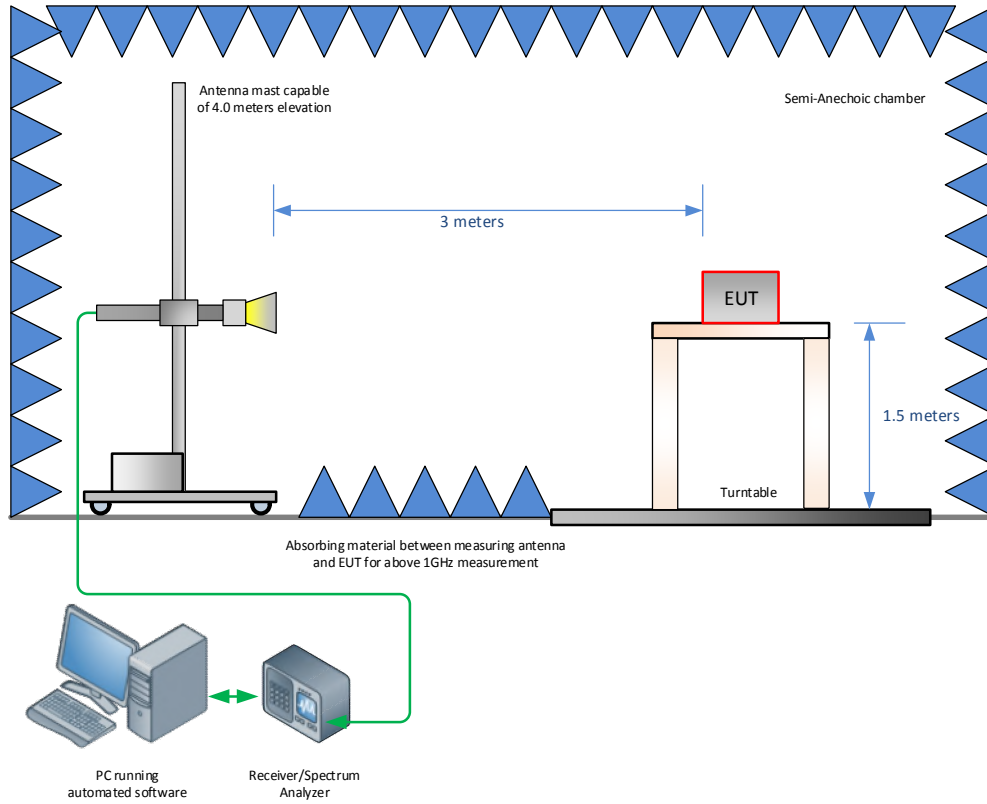


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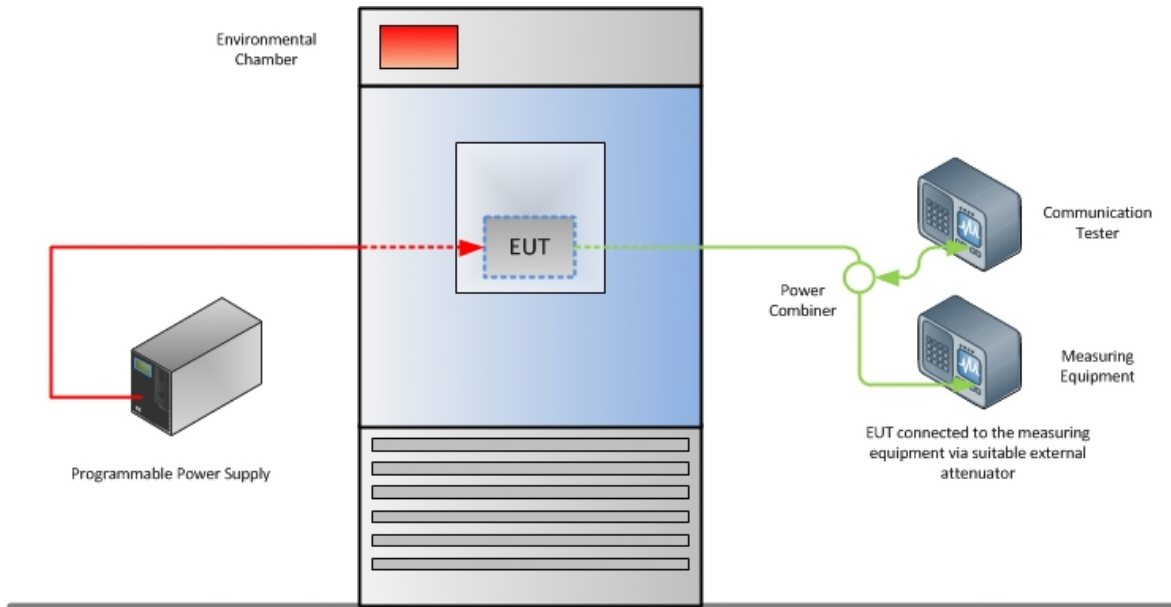
4.1 TEST SETUP DIAGRAM



Radiated Emission Test Setup (Below 1GHz)



Radiated Emission Test Setup (Above 1GHz)



Frequency Stability Test Configuration



SECTION 5

ACCREDITATION, DISCLAIMERS AND COPYRIGHT



5.1 ACCREDITATION, DISCLAIMERS AND COPYRIGHT

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