

# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 Test Result

### 1.1.1 Band4\_EIRP

| Band: 4 |           |              |                 |                       |            |            |       |         |       |      |      |
|---------|-----------|--------------|-----------------|-----------------------|------------|------------|-------|---------|-------|------|------|
| ENV     | Mode      |              | Frequency (MHz) | Conducted Power (dBm) | Gain (dBi) | EIRP (dBm) |       | Verdict |       |      |      |
|         | Network   | Subset       |                 |                       |            | Result     | Limit |         |       |      |      |
| NTNV    | RMC       | 12.2kbps RMC | 1712.4          | 14.40                 | 0.36       | 14.76      | <=30  | Pass    |       |      |      |
|         |           |              | 1732.6          | 22.10                 | 0.36       | 22.46      | <=30  | Pass    |       |      |      |
|         |           |              | 1752.6          | 22.11                 | 0.36       | 22.47      | <=30  | Pass    |       |      |      |
|         | HSDPA     |              | Subtest 1       | 1712.4                | 19.58      | 0.36       | 19.94 | <=30    | Pass  |      |      |
|         |           |              | Subtest 2       | 1712.4                | 19.56      | 0.36       | 19.92 | <=30    | Pass  |      |      |
|         |           |              | Subtest 3       | 1712.4                | 19.56      | 0.36       | 19.92 | <=30    | Pass  |      |      |
|         |           |              | Subtest 4       | 1712.4                | 19.56      | 0.36       | 19.92 | <=30    | Pass  |      |      |
|         |           |              | Subtest 1       | 1732.6                | 19.69      | 0.36       | 20.05 | <=30    | Pass  |      |      |
|         |           |              | Subtest 2       | 1732.6                | 19.67      | 0.36       | 20.03 | <=30    | Pass  |      |      |
|         |           |              | Subtest 3       | 1732.6                | 19.69      | 0.36       | 20.05 | <=30    | Pass  |      |      |
|         |           |              | Subtest 4       | 1732.6                | 19.67      | 0.36       | 20.03 | <=30    | Pass  |      |      |
|         |           |              | Subtest 1       | 1752.6                | 19.71      | 0.36       | 20.07 | <=30    | Pass  |      |      |
|         |           |              | Subtest 2       | 1752.6                | 19.69      | 0.36       | 20.05 | <=30    | Pass  |      |      |
|         |           |              | Subtest 3       | 1752.6                | 19.73      | 0.36       | 20.09 | <=30    | Pass  |      |      |
|         |           |              | Subtest 4       | 1752.6                | 19.72      | 0.36       | 20.08 | <=30    | Pass  |      |      |
|         |           |              | HSUPA           |                       | Subtest 1  | 1712.4     | 17.43 | 0.36    | 17.79 | <=30 | Pass |
|         |           |              |                 |                       | Subtest 2  | 1712.4     | 17.46 | 0.36    | 17.82 | <=30 | Pass |
|         |           |              |                 |                       | Subtest 3  | 1712.4     | 17.09 | 0.36    | 17.45 | <=30 | Pass |
|         |           |              |                 |                       | Subtest 4  | 1712.4     | 17.61 | 0.36    | 17.97 | <=30 | Pass |
|         |           |              |                 |                       | Subtest 5  | 1712.4     | 17.13 | 0.36    | 17.49 | <=30 | Pass |
|         | Subtest 1 | 1732.6       |                 |                       | 17.72      | 0.36       | 18.08 | <=30    | Pass  |      |      |
|         | Subtest 2 | 1732.6       |                 |                       | 17.19      | 0.36       | 17.55 | <=30    | Pass  |      |      |
|         | Subtest 3 | 1732.6       |                 |                       | 17.22      | 0.36       | 17.58 | <=30    | Pass  |      |      |
|         | Subtest 4 | 1732.6       |                 |                       | 17.72      | 0.36       | 18.08 | <=30    | Pass  |      |      |
|         | Subtest 5 | 1732.6       |                 |                       | 17.26      | 0.36       | 17.62 | <=30    | Pass  |      |      |
|         | Subtest 1 | 1752.6       |                 |                       | 17.77      | 0.36       | 18.13 | <=30    | Pass  |      |      |
|         | Subtest 2 | 1752.6       |                 |                       | 17.53      | 0.36       | 17.89 | <=30    | Pass  |      |      |
|         | Subtest 3 | 1752.6       |                 |                       | 17.54      | 0.36       | 17.9  | <=30    | Pass  |      |      |
|         | Subtest 4 | 1752.6       | 17.24           | 0.36                  | 17.6       | <=30       | Pass  |         |       |      |      |
|         | Subtest 5 | 1752.6       | 17.52           | 0.36                  | 17.88      | <=30       | Pass  |         |       |      |      |

Note1: EIRP=Conducted Power+Antenna Gain

## 2. Frequency Stability

### 2.1 Test Result

#### 2.1.1 Band4

| Band: 4 |                 |            |               |                  |                       |             |         |
|---------|-----------------|------------|---------------|------------------|-----------------------|-------------|---------|
| Network | Frequency (MHz) | Temp. (°C) | Voltage (VDC) | Freq. Error (Hz) | Freq. vs. Rated (ppm) |             | Verdict |
|         |                 |            |               |                  | Result                | Limit       |         |
| RMC     | 1712.4          | 20         | 3.27          | -8.597           | -0.0050               | -2.5 to 2.5 | Pass    |
|         |                 |            | 3.85          | -11.501          | -0.0067               | -2.5 to 2.5 | Pass    |
|         |                 |            | 4.43          | -10.185          | -0.0059               | -2.5 to 2.5 | Pass    |
|         |                 | -30        | 3.85          | -15.414          | -0.0090               | -2.5 to 2.5 | Pass    |
|         |                 | -20        | 3.85          | -12.124          | -0.0071               | -2.5 to 2.5 | Pass    |
|         |                 | -10        | 3.85          | -15.185          | -0.0089               | -2.5 to 2.5 | Pass    |
|         |                 | 0          | 3.85          | -14.877          | -0.0087               | -2.5 to 2.5 | Pass    |
|         |                 | 10         | 3.85          | -13.282          | -0.0078               | -2.5 to 2.5 | Pass    |
|         |                 | 30         | 3.85          | -13.683          | -0.0080               | -2.5 to 2.5 | Pass    |
|         |                 | 40         | 3.85          | -13.189          | -0.0077               | -2.5 to 2.5 | Pass    |
|         | 50              | 3.85       | -12.653       | -0.0074          | -2.5 to 2.5           | Pass        |         |
|         | 1732.6          | 20         | 3.27          | -12.238          | -0.0071               | -2.5 to 2.5 | Pass    |
|         |                 |            | 3.85          | -10.986          | -0.0063               | -2.5 to 2.5 | Pass    |
|         |                 |            | 4.43          | -12.131          | -0.0070               | -2.5 to 2.5 | Pass    |
|         |                 | -30        | 3.85          | -15.457          | -0.0089               | -2.5 to 2.5 | Pass    |
|         |                 | -20        | 3.85          | -14.327          | -0.0083               | -2.5 to 2.5 | Pass    |
|         |                 | -10        | 3.85          | -12.016          | -0.0069               | -2.5 to 2.5 | Pass    |
|         |                 | 0          | 3.85          | -13.969          | -0.0081               | -2.5 to 2.5 | Pass    |
|         |                 | 10         | 3.85          | -8.869           | -0.0051               | -2.5 to 2.5 | Pass    |
|         |                 | 30         | 3.85          | -9.270           | -0.0054               | -2.5 to 2.5 | Pass    |
|         |                 | 40         | 3.85          | -13.125          | -0.0076               | -2.5 to 2.5 | Pass    |
|         | 50              | 3.85       | -13.926       | -0.0080          | -2.5 to 2.5           | Pass        |         |
|         | 1752.6          | 20         | 3.27          | -8.290           | -0.0047               | -2.5 to 2.5 | Pass    |
|         |                 |            | 3.85          | -9.120           | -0.0052               | -2.5 to 2.5 | Pass    |
|         |                 |            | 4.43          | -8.547           | -0.0049               | -2.5 to 2.5 | Pass    |
|         |                 | -30        | 3.85          | -5.322           | -0.0030               | -2.5 to 2.5 | Pass    |
|         |                 | -20        | 3.85          | -6.773           | -0.0039               | -2.5 to 2.5 | Pass    |
|         |                 | -10        | 3.85          | -11.344          | -0.0065               | -2.5 to 2.5 | Pass    |
|         |                 | 0          | 3.85          | -7.646           | -0.0044               | -2.5 to 2.5 | Pass    |
|         |                 | 10         | 3.85          | -4.621           | -0.0026               | -2.5 to 2.5 | Pass    |
| 30      |                 | 3.85       | -6.509        | -0.0037          | -2.5 to 2.5           | Pass        |         |
| 40      |                 | 3.85       | -7.517        | -0.0043          | -2.5 to 2.5           | Pass        |         |
| 50      | 3.85            | -8.004     | -0.0046       | -2.5 to 2.5      | Pass                  |             |         |
| HSDPA   | 1712.4          | 20         | 3.27          | -11.337          | -0.0066               | -2.5 to 2.5 | Pass    |
|         |                 |            | 3.85          | -9.770           | -0.0057               | -2.5 to 2.5 | Pass    |
|         |                 |            | 4.43          | -8.633           | -0.0050               | -2.5 to 2.5 | Pass    |
|         |                 | -30        | 3.85          | -9.620           | -0.0056               | -2.5 to 2.5 | Pass    |
|         |                 | -20        | 3.85          | -7.296           | -0.0043               | -2.5 to 2.5 | Pass    |
|         |                 | -10        | 3.85          | -9.449           | -0.0055               | -2.5 to 2.5 | Pass    |
|         |                 | 0          | 3.85          | -12.095          | -0.0071               | -2.5 to 2.5 | Pass    |
|         |                 | 10         | 3.85          | -13.733          | -0.0080               | -2.5 to 2.5 | Pass    |
|         |                 | 30         | 3.85          | -11.129          | -0.0065               | -2.5 to 2.5 | Pass    |
|         |                 | 40         | 3.85          | -6.802           | -0.0040               | -2.5 to 2.5 | Pass    |
|         | 50              | 3.85       | -12.681       | -0.0074          | -2.5 to 2.5           | Pass        |         |
|         | 1732.6          | 20         | 3.27          | -13.633          | -0.0079               | -2.5 to 2.5 | Pass    |
|         |                 |            | 3.85          | -7.775           | -0.0045               | -2.5 to 2.5 | Pass    |

|       |        |        |        |         |             |             |             |             |      |
|-------|--------|--------|--------|---------|-------------|-------------|-------------|-------------|------|
|       |        |        | 4.43   | -11.086 | -0.0064     | -2.5 to 2.5 | Pass        |             |      |
|       |        | -30    | 3.85   | -10.142 | -0.0059     | -2.5 to 2.5 | Pass        |             |      |
|       |        | -20    | 3.85   | -8.297  | -0.0048     | -2.5 to 2.5 | Pass        |             |      |
|       |        | -10    | 3.85   | -7.932  | -0.0046     | -2.5 to 2.5 | Pass        |             |      |
|       |        | 0      | 3.85   | -9.899  | -0.0057     | -2.5 to 2.5 | Pass        |             |      |
|       |        | 10     | 3.85   | -11.187 | -0.0065     | -2.5 to 2.5 | Pass        |             |      |
|       |        | 30     | 3.85   | -10.629 | -0.0061     | -2.5 to 2.5 | Pass        |             |      |
|       |        | 40     | 3.85   | -6.580  | -0.0038     | -2.5 to 2.5 | Pass        |             |      |
|       |        | 50     | 3.85   | -10.228 | -0.0059     | -2.5 to 2.5 | Pass        |             |      |
|       | 1752.6 | 20     |        | 3.27    | -4.935      | -0.0028     | -2.5 to 2.5 | Pass        |      |
|       |        |        |        | 3.85    | -10.815     | -0.0062     | -2.5 to 2.5 | Pass        |      |
|       |        |        |        | 4.43    | -10.715     | -0.0061     | -2.5 to 2.5 | Pass        |      |
|       |        |        | -30    | 3.85    | -11.108     | -0.0063     | -2.5 to 2.5 | Pass        |      |
|       |        |        | -20    | 3.85    | -9.985      | -0.0057     | -2.5 to 2.5 | Pass        |      |
|       |        |        | -10    | 3.85    | -10.936     | -0.0062     | -2.5 to 2.5 | Pass        |      |
|       |        |        | 0      | 3.85    | -12.968     | -0.0074     | -2.5 to 2.5 | Pass        |      |
|       |        |        | 10     | 3.85    | -10.729     | -0.0061     | -2.5 to 2.5 | Pass        |      |
|       |        |        | 30     | 3.85    | -11.544     | -0.0066     | -2.5 to 2.5 | Pass        |      |
|       |        |        | 40     | 3.85    | -7.982      | -0.0046     | -2.5 to 2.5 | Pass        |      |
|       | 50     | 3.85   | -9.971 | -0.0057 | -2.5 to 2.5 | Pass        |             |             |      |
| HSUPA | 1712.4 | 20     |        | 3.27    | -10.192     | -0.0060     | -2.5 to 2.5 | Pass        |      |
|       |        |        |        | 3.85    | -11.122     | -0.0065     | -2.5 to 2.5 | Pass        |      |
|       |        |        |        | 4.43    | -15.292     | -0.0089     | -2.5 to 2.5 | Pass        |      |
|       |        |        | -30    | 3.85    | -15.364     | -0.0090     | -2.5 to 2.5 | Pass        |      |
|       |        |        | -20    | 3.85    | -11.036     | -0.0064     | -2.5 to 2.5 | Pass        |      |
|       |        |        | -10    | 3.85    | -12.810     | -0.0075     | -2.5 to 2.5 | Pass        |      |
|       |        |        | 0      | 3.85    | -9.763      | -0.0057     | -2.5 to 2.5 | Pass        |      |
|       |        |        | 10     | 3.85    | -13.354     | -0.0078     | -2.5 to 2.5 | Pass        |      |
|       |        |        | 30     | 3.85    | -14.727     | -0.0086     | -2.5 to 2.5 | Pass        |      |
|       |        |        | 40     | 3.85    | -17.273     | -0.0101     | -2.5 to 2.5 | Pass        |      |
|       |        |        | 50     | 3.85    | -14.606     | -0.0085     | -2.5 to 2.5 | Pass        |      |
|       |        | 1732.6 | 20     |         | 3.27        | -3.498      | -0.0020     | -2.5 to 2.5 | Pass |
|       |        |        |        |         | 3.85        | -12.367     | -0.0071     | -2.5 to 2.5 | Pass |
|       |        |        |        | 4.43    | -12.116     | -0.0070     | -2.5 to 2.5 | Pass        |      |
|       |        |        | -30    | 3.85    | -10.364     | -0.0060     | -2.5 to 2.5 | Pass        |      |
|       |        |        | -20    | 3.85    | -11.280     | -0.0065     | -2.5 to 2.5 | Pass        |      |
|       |        |        | -10    | 3.85    | -12.317     | -0.0071     | -2.5 to 2.5 | Pass        |      |
|       |        |        | 0      | 3.85    | -14.713     | -0.0085     | -2.5 to 2.5 | Pass        |      |
|       |        |        | 10     | 3.85    | -14.005     | -0.0081     | -2.5 to 2.5 | Pass        |      |
|       |        |        | 30     | 3.85    | -13.218     | -0.0076     | -2.5 to 2.5 | Pass        |      |
|       |        |        | 40     | 3.85    | -16.208     | -0.0094     | -2.5 to 2.5 | Pass        |      |
|       |        | 50     | 3.85   | -11.587 | -0.0067     | -2.5 to 2.5 | Pass        |             |      |
|       | 1752.6 | 20     |        | 3.27    | -5.057      | -0.0029     | -2.5 to 2.5 | Pass        |      |
|       |        |        |        | 3.85    | -11.823     | -0.0067     | -2.5 to 2.5 | Pass        |      |
|       |        |        |        | 4.43    | -10.765     | -0.0061     | -2.5 to 2.5 | Pass        |      |
|       |        |        | -30    | 3.85    | -12.116     | -0.0069     | -2.5 to 2.5 | Pass        |      |
|       |        |        | -20    | 3.85    | -10.400     | -0.0059     | -2.5 to 2.5 | Pass        |      |
|       |        |        | -10    | 3.85    | -6.530      | -0.0037     | -2.5 to 2.5 | Pass        |      |
|       |        |        | 0      | 3.85    | -9.205      | -0.0053     | -2.5 to 2.5 | Pass        |      |
|       |        |        | 10     | 3.85    | -8.333      | -0.0048     | -2.5 to 2.5 | Pass        |      |
|       |        |        | 30     | 3.85    | -12.174     | -0.0069     | -2.5 to 2.5 | Pass        |      |
|       |        |        | 40     | 3.85    | -13.282     | -0.0076     | -2.5 to 2.5 | Pass        |      |
|       |        | 50     | 3.85   | -9.098  | -0.0052     | -2.5 to 2.5 | Pass        |             |      |

### 3. Modulation Characteristics

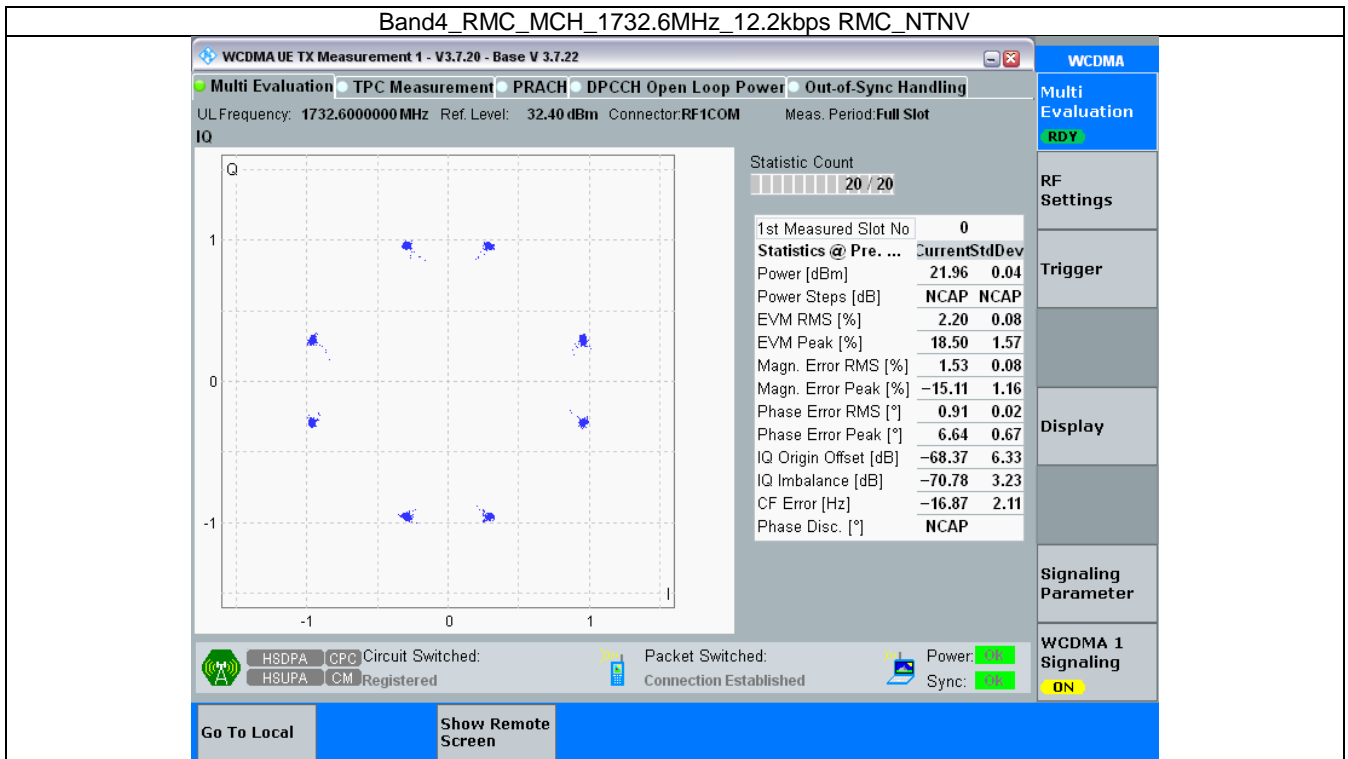
### 3.1 Test Result

#### 3.1.1 Band4

| Band: 4 |         |              |                 |                            |       |         |
|---------|---------|--------------|-----------------|----------------------------|-------|---------|
| ENV     | Mode    |              | Frequency (MHz) | Modulation Characteristics |       | Verdict |
|         | Network | Subset       |                 | Result                     | Limit |         |
| NTNV    | RMC     | 12.2kbps RMC | 1732.6          | Refer To Test Graph        |       | Pass    |
|         | HSDPA   | Subtest 1    | 1732.6          | Refer To Test Graph        |       | Pass    |
|         | HSUPA   | Subtest 1    | 1732.6          | Refer To Test Graph        |       | Pass    |

### 3.2 Test Graph

#### 3.2.1 Band4



Band4\_HSDPA\_MCH\_1732.6MHz\_Subtest 1\_NTNV

WCDMA UE TX Measurement 1 - V3.7.20 - Base V 3.7.22

Multi Evaluation TPC Measurement PRACH DPCCH Open Loop Power Out-of-Sync Handling

UL Frequency: 1732.600000 MHz Ref. Level: 16.80 dBm Connector: RF1COM Meas. Period: Full Slot

TX Measurement

1st Measured Slot No 0 Statistic Count 20 / 20

| Statistics @ Pre. Slot 0 | Current | Average | Maximum | StdDev. |
|--------------------------|---------|---------|---------|---------|
| Power [dBm]              | 0.83    | 0.82    | 0.97    | 0.08    |
| Power Steps [dB]         | NCAP    | NCAP    | NCAP    | NCAP    |
| EVM RMS [%]              | NCAP    | NCAP    | NCAP    | NCAP    |
| EVM Peak [%]             | NCAP    | NCAP    | NCAP    | NCAP    |
| Magnitude Error RMS [%]  | NCAP    | NCAP    | NCAP    | NCAP    |
| Magnitude Error Peak [%] | NCAP    | NCAP    | NCAP    | NCAP    |
| Phase Error RMS [°]      | NCAP    | NCAP    | NCAP    | NCAP    |
| Phase Error Peak [°]     | NCAP    | NCAP    | NCAP    | NCAP    |
| IQ Origin Offset [dB]    | NCAP    | NCAP    | NCAP    | NCAP    |
| IQ Imbalance [dB]        | NCAP    | NCAP    | NCAP    | NCAP    |
| CF Error [Hz]            | NCAP    | NCAP    | NCAP    | NCAP    |
| Trans. Time Error [Chip] | NCAP    | NCAP    | NCAP    | NCAP    |
| Phase Disc. [°]          | NCAP    |         |         |         |
| OBW [MHz]                | NCAP    | NCAP    | NCAP    |         |

HSDPA+  HSPA+  GSM Registered  Circuit Switched:  Packet Switched:  Connection Established  Power:  Sync:

Go To Local Show Remote Screen

WCDMA Multi Evaluation RDY RF Settings Trigger Display Signaling Parameter WCDMA 1 Signaling ON

Band4\_HSUPA\_MCH\_1732.6MHz\_Subtest 1\_NTNV

WCDMA UE TX Measurement 1 - V3.7.20 - Base V 3.7.22

Multi Evaluation TPC Measurement PRACH DPCCH Open Loop Power Out-of-Sync Handling

UL Frequency: 1732.600000 MHz Ref. Level: 34.20 dBm Connector: RF1COM Meas. Period: Full Slot

IQ

Statistic Count 20 / 20

1st Measured Slot No 0

| Statistics @ Pre. ... | Current | StdDev |
|-----------------------|---------|--------|
| Power [dBm]           | 13.70   | 1.29   |
| Power Steps [dB]      | NCAP    | NCAP   |
| EVM RMS [%]           | 3.12    | 1.86   |
| EVM Peak [%]          | 27.83   | 26.35  |
| Magn. Error RMS [%]   | 2.51    | 2.07   |
| Magn. Error Peak [%]  | 27.82   | 27.05  |
| Phase Error RMS [°]   | 71.97   | 35.28  |
| Phase Error Peak [°]  | -180.00 | 87.48  |
| IQ Origin Offset [dB] | -79.86  | 7.43   |
| IQ Imbalance [dB]     | -60.24  | 4.70   |
| CF Error [Hz]         | -11.09  | 3.08   |
| Phase Disc. [°]       | NCAP    |        |

HSDPA+  HSPA+  GSM Registered  Circuit Switched:  Packet Switched:  Connection Established  Power:  Sync:

Go To Local Show Remote Screen

WCDMA Multi Evaluation RDY RF Settings Trigger Display Signaling Parameter WCDMA 1 Signaling ON

## 4. 99% & 26dB Bandwidth

### 4.1 Test Result

#### 4.1.1 Band4\_OBW

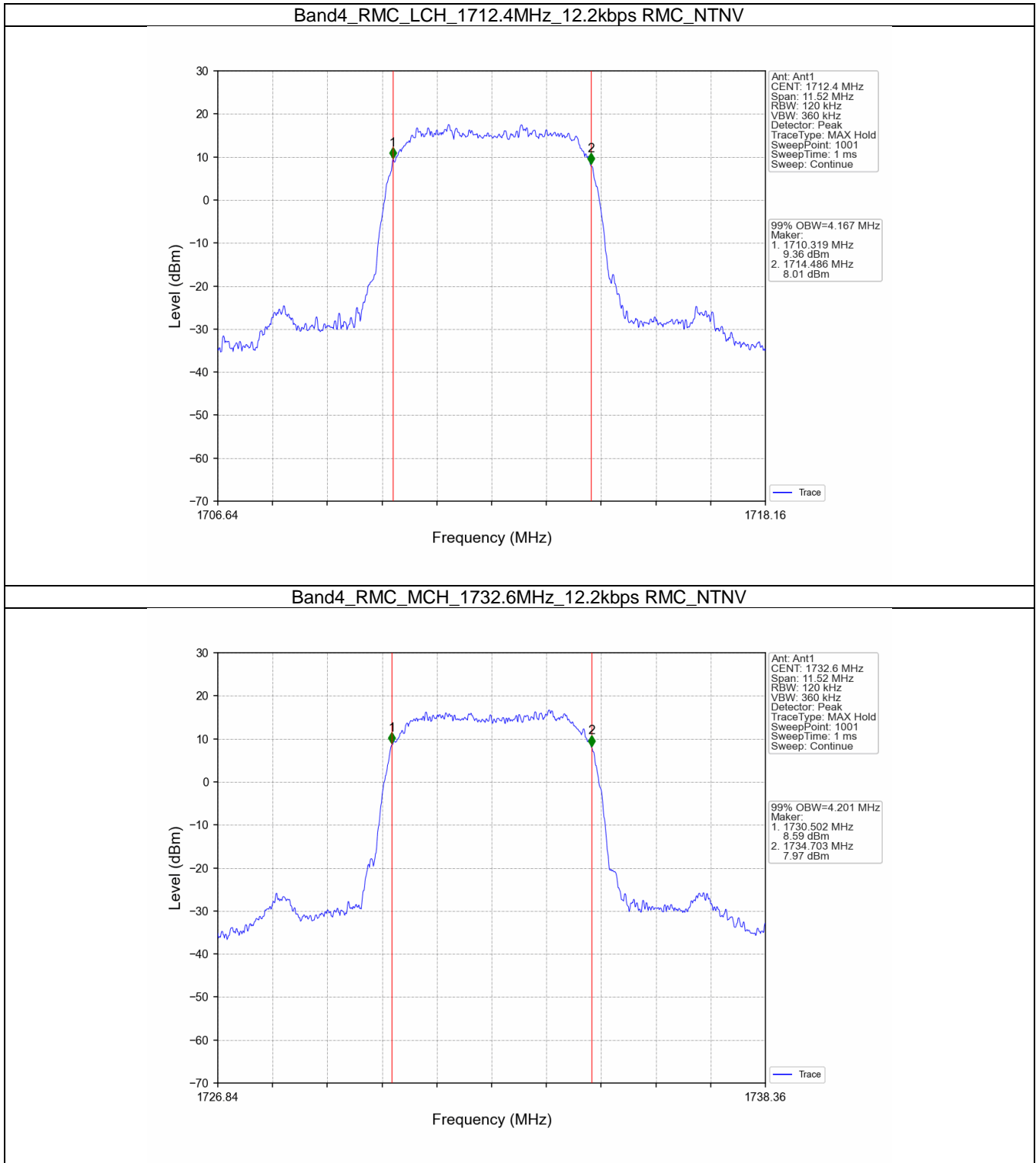
| Band: 4 |         |              |                 |                              |       |         |
|---------|---------|--------------|-----------------|------------------------------|-------|---------|
| ENV     | Mode    |              | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |       | Verdict |
|         | Network | Subset       |                 | Result                       | Limit |         |
| NTNV    | RMC     | 12.2kbps RMC | 1712.4          | 4.167                        | /     | Pass    |
|         |         |              | 1732.6          | 4.201                        | /     | Pass    |
|         |         |              | 1752.6          | 4.179                        | /     | Pass    |
|         | HSDPA   | Subtest 1    | 1712.4          | 4.235                        | /     | Pass    |
|         |         |              | 1732.6          | 4.242                        | /     | Pass    |
|         |         |              | 1752.6          | 4.252                        | /     | Pass    |
|         | HSUPA   | Subtest 1    | 1712.4          | 4.237                        | /     | Pass    |
|         |         |              | 1732.6          | 4.252                        | /     | Pass    |
|         |         |              | 1752.6          | 4.215                        | /     | Pass    |

#### 4.1.2 Band4\_XDB

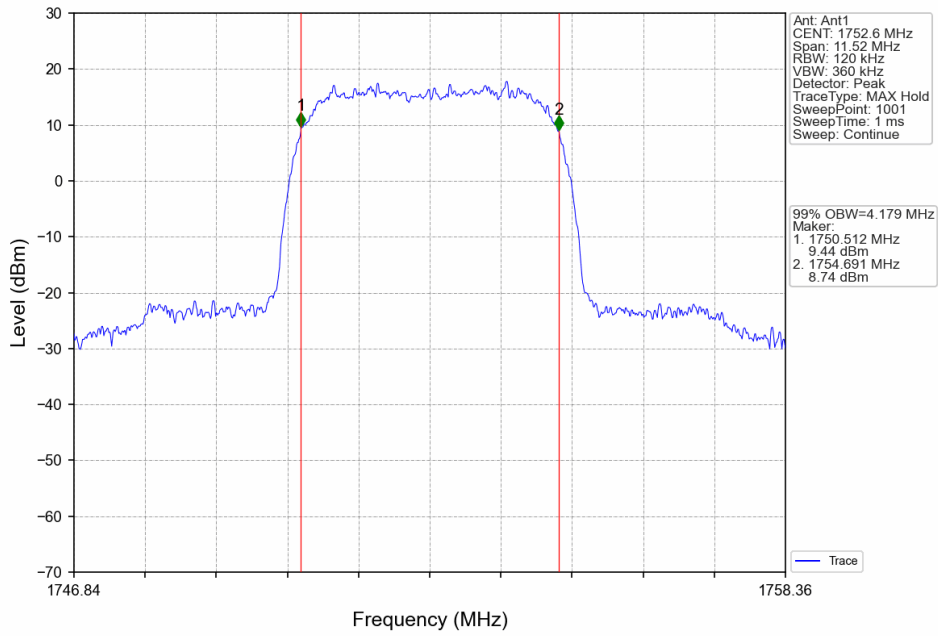
| Band: 4 |         |              |                 |                      |       |         |
|---------|---------|--------------|-----------------|----------------------|-------|---------|
| ENV     | Mode    |              | Frequency (MHz) | 26dB Bandwidth (MHz) |       | Verdict |
|         | Network | Subset       |                 | Result               | Limit |         |
| NTNV    | RMC     | 12.2kbps RMC | 1712.4          | 4.744                | /     | Pass    |
|         |         |              | 1732.6          | 4.745                | /     | Pass    |
|         |         |              | 1752.6          | 4.769                | /     | Pass    |
|         | HSDPA   | Subtest 1    | 1712.4          | 6.557                | /     | Pass    |
|         |         |              | 1732.6          | 5.309                | /     | Pass    |
|         |         |              | 1752.6          | 5.480                | /     | Pass    |
|         | HSUPA   | Subtest 1    | 1712.4          | 6.380                | /     | Pass    |
|         |         |              | 1732.6          | 5.588                | /     | Pass    |
|         |         |              | 1752.6          | 5.330                | /     | Pass    |

## 4.2 Test Graph

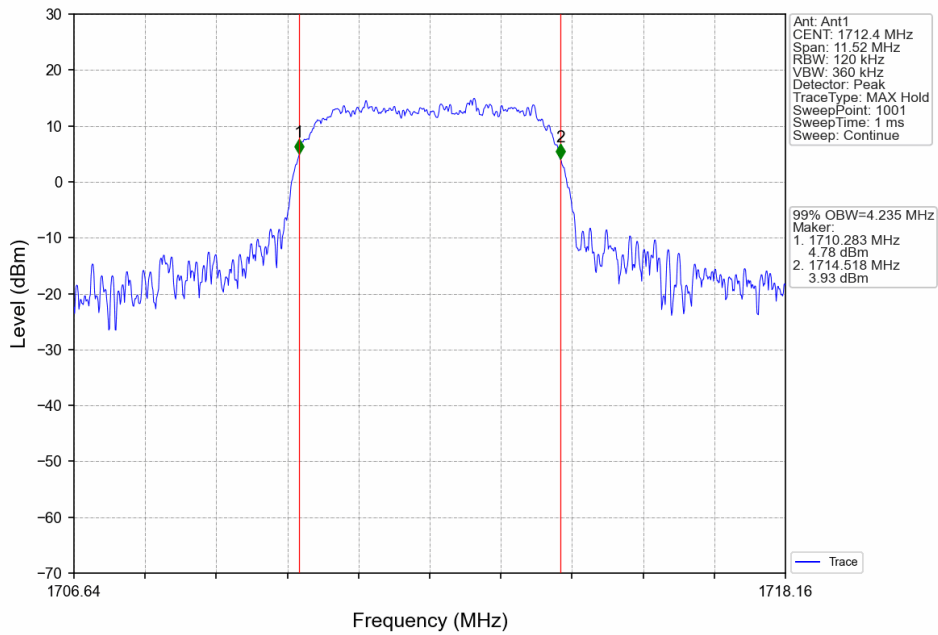
### 4.2.1 Band4\_OBW



Band4\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV

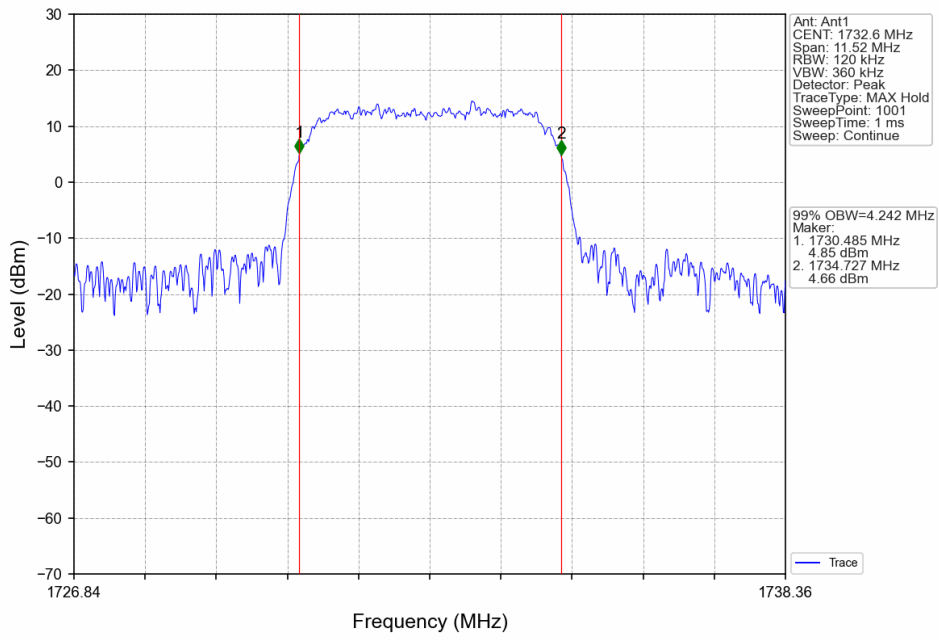


Band4\_HSDPA\_LCH\_1712.4MHz\_Subtest 1\_NTNV

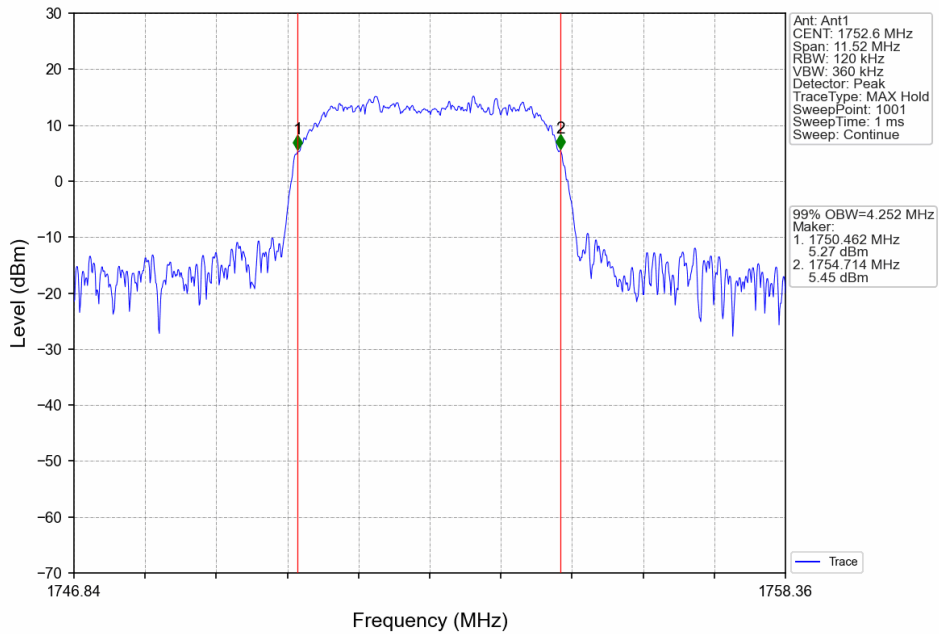




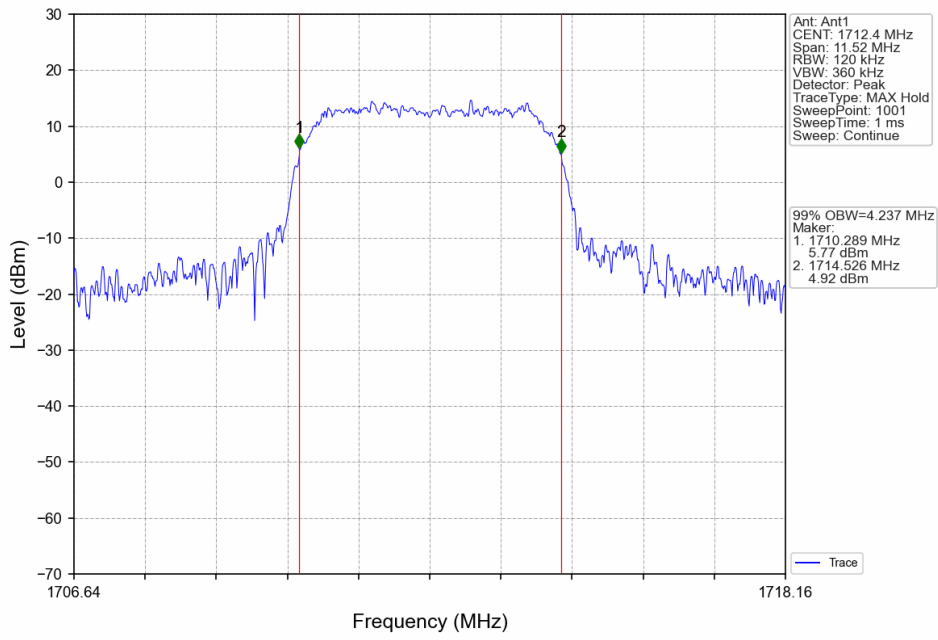
Band4\_HSDPA\_MCH\_1732.6MHz\_Subtest 1\_NTNV



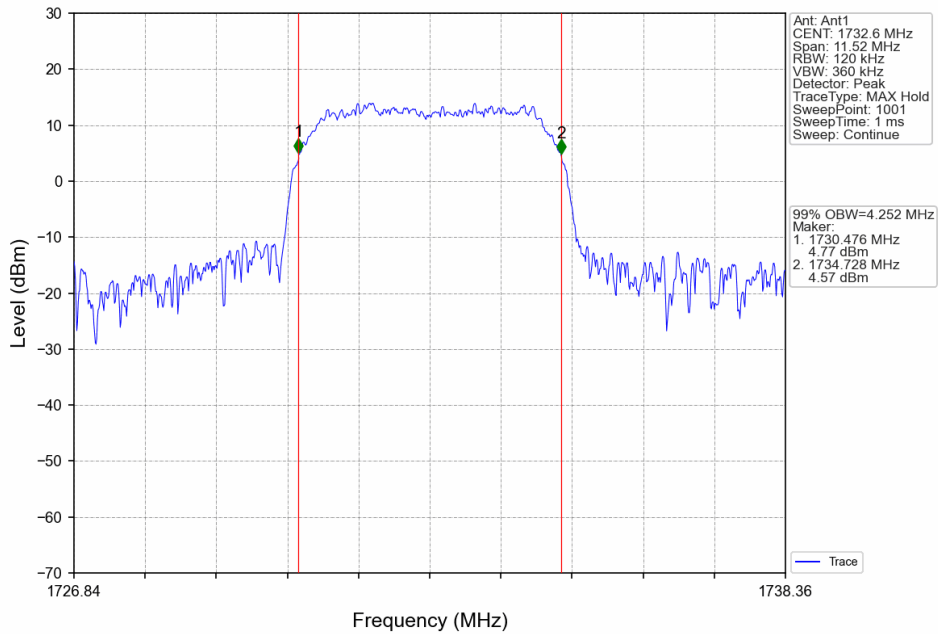
Band4\_HSDPA\_HCH\_1752.6MHz\_Subtest 1\_NTNV



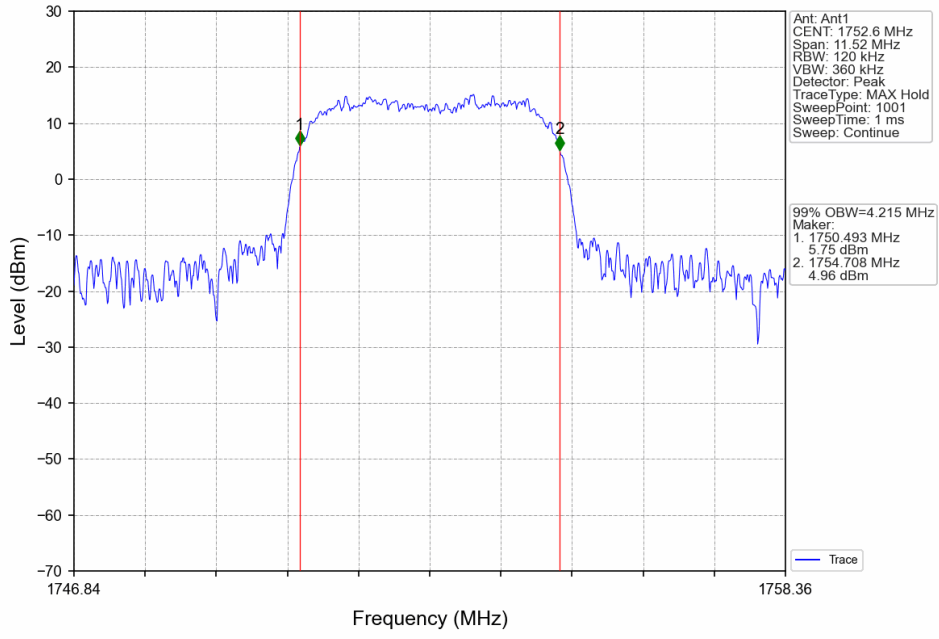
Band4\_HSUPA\_LCH\_1712.4MHz\_Subtest 1\_NTNV



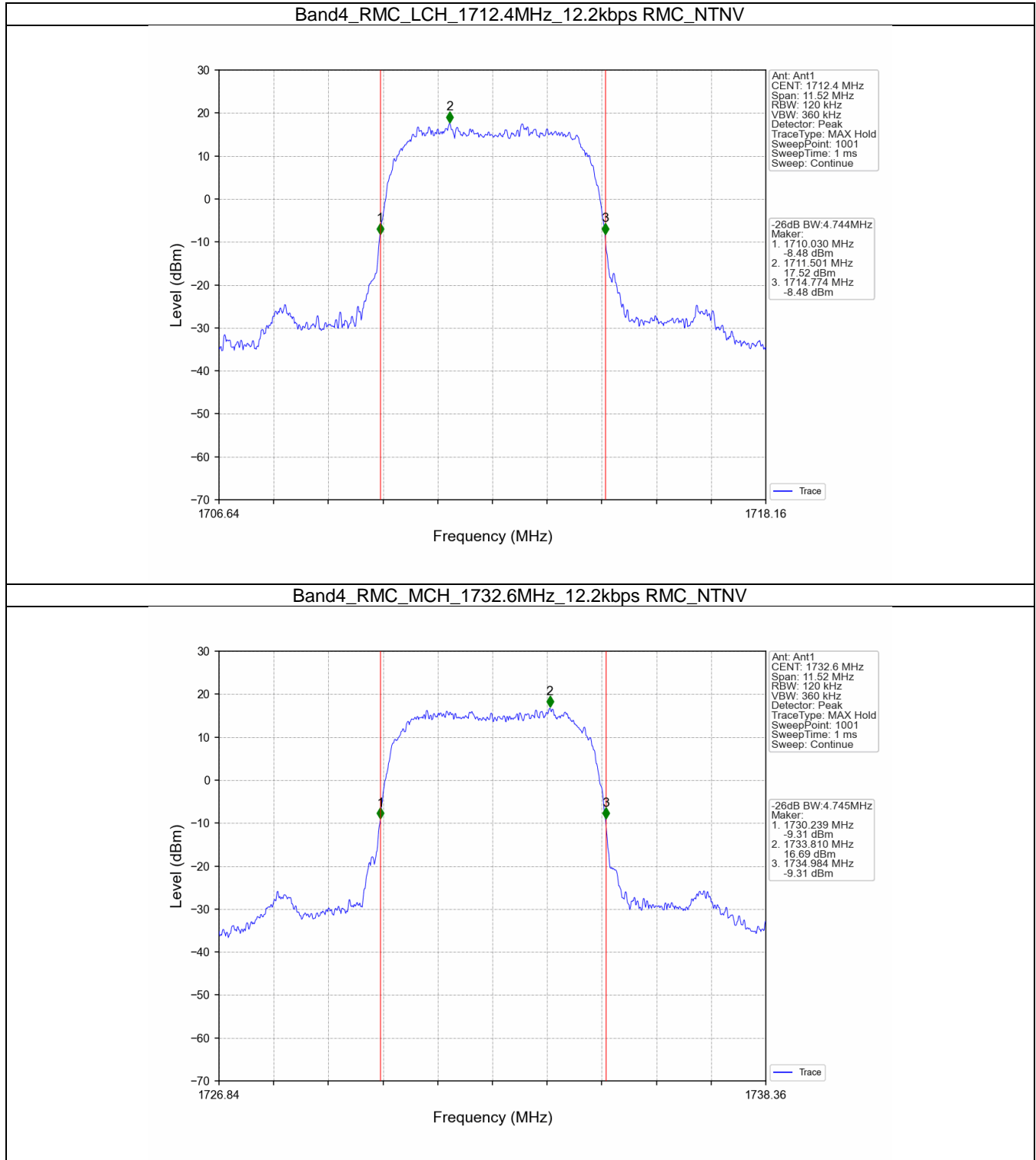
Band4\_HSUPA\_MCH\_1732.6MHz\_Subtest 1\_NTNV



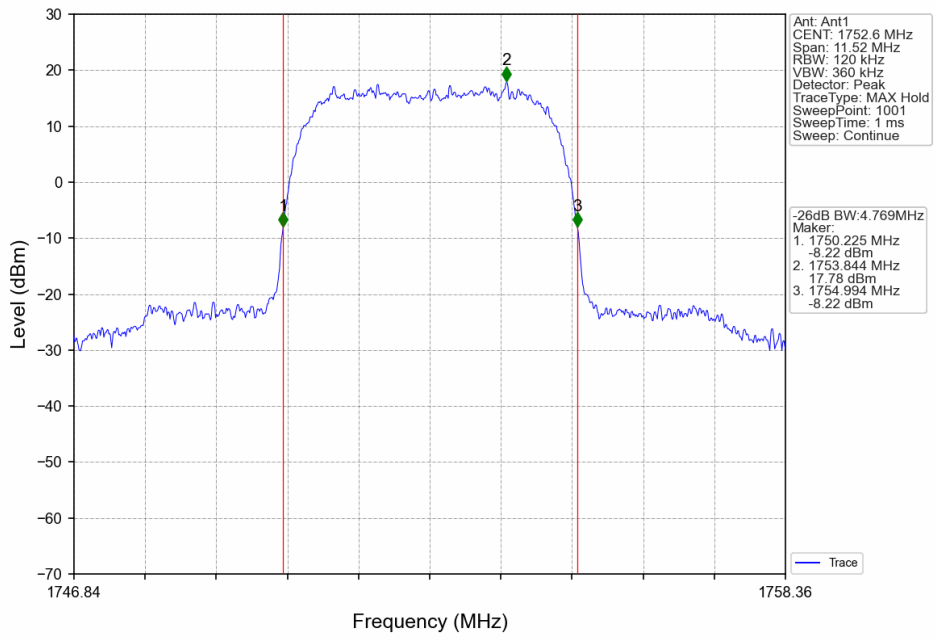
Band4\_HSUPA\_HCH\_1752.6MHz\_Subtest 1\_NTNV



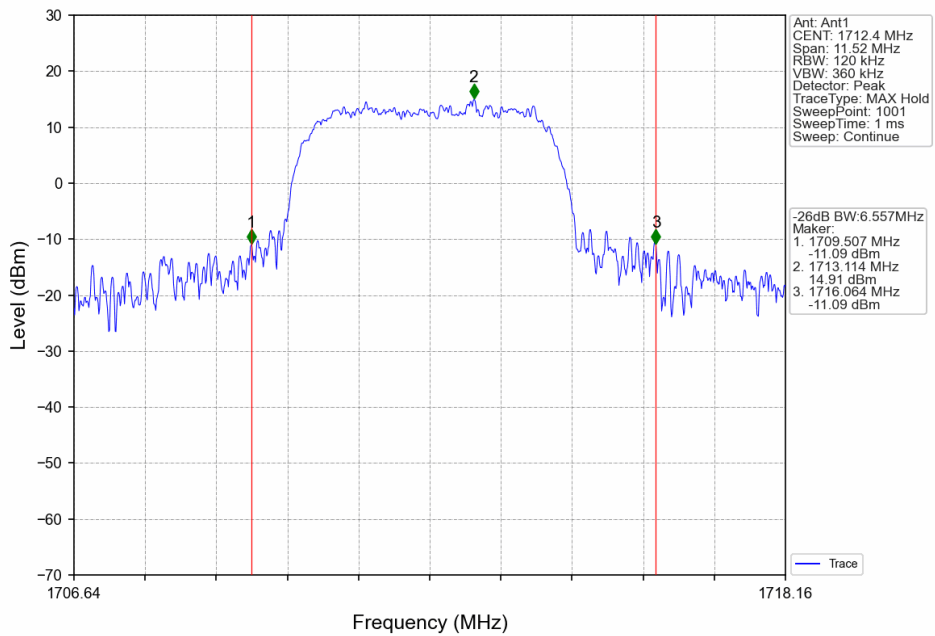
## 4.2.2 Band4\_XDB



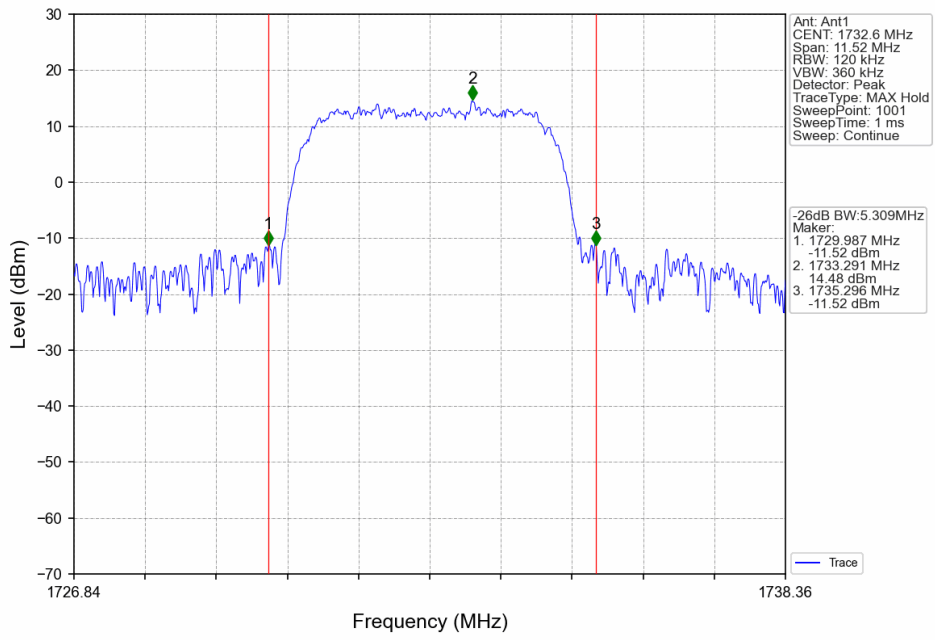
Band4\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV



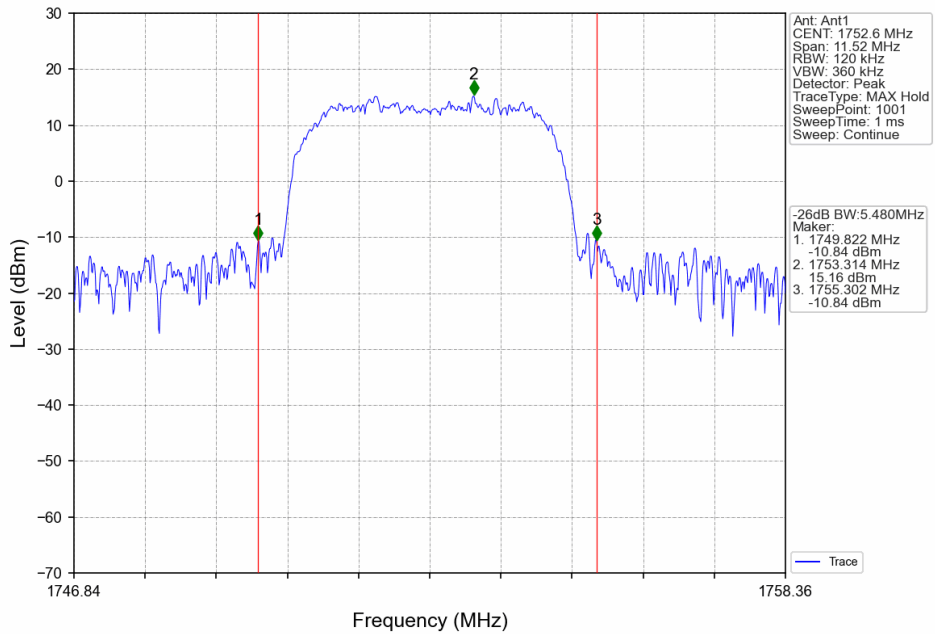
Band4\_HSDPA\_LCH\_1712.4MHz\_Subtest 1\_NTNV



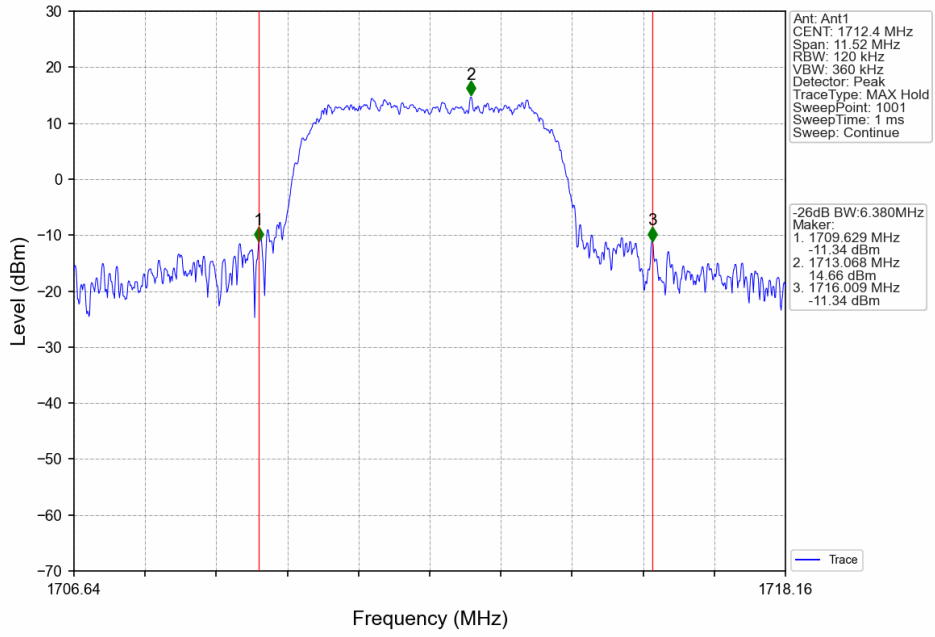
Band4\_HSDPA\_MCH\_1732.6MHz\_Subtest 1\_NTNV



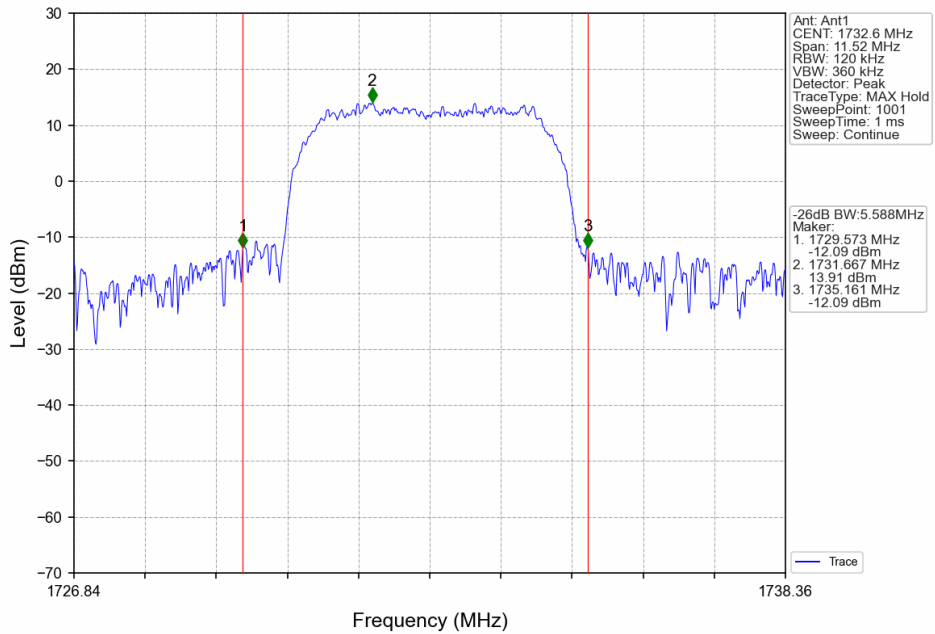
Band4\_HSDPA\_HCH\_1752.6MHz\_Subtest 1\_NTNV



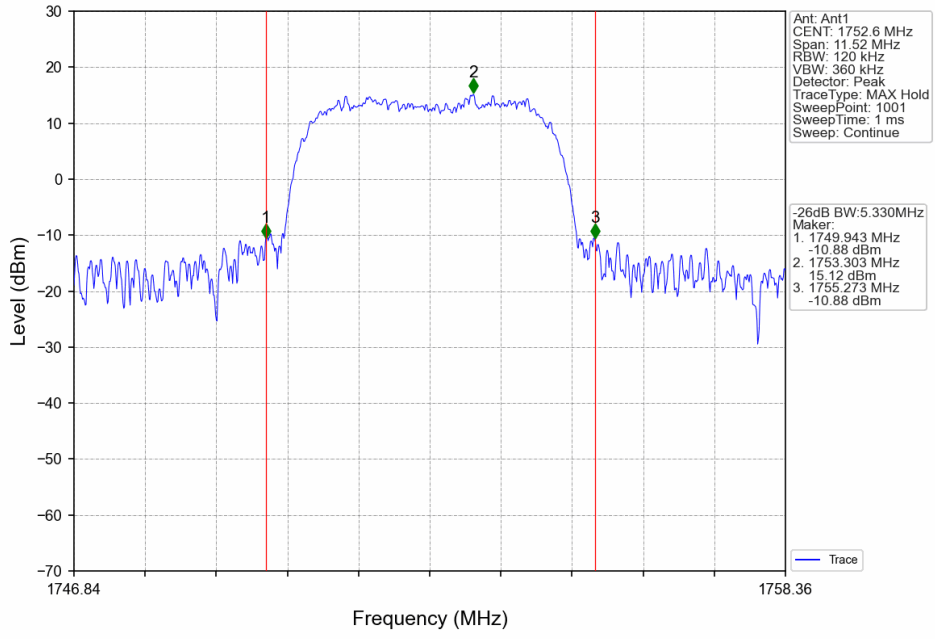
Band4\_HSUPA\_LCH\_1712.4MHz\_Subtest 1\_NTNV



Band4\_HSUPA\_MCH\_1732.6MHz\_Subtest 1\_NTNV



Band4\_HSUPA\_HCH\_1752.6MHz\_Subtest 1\_NTNV





## 5. Peak-Average Ratio

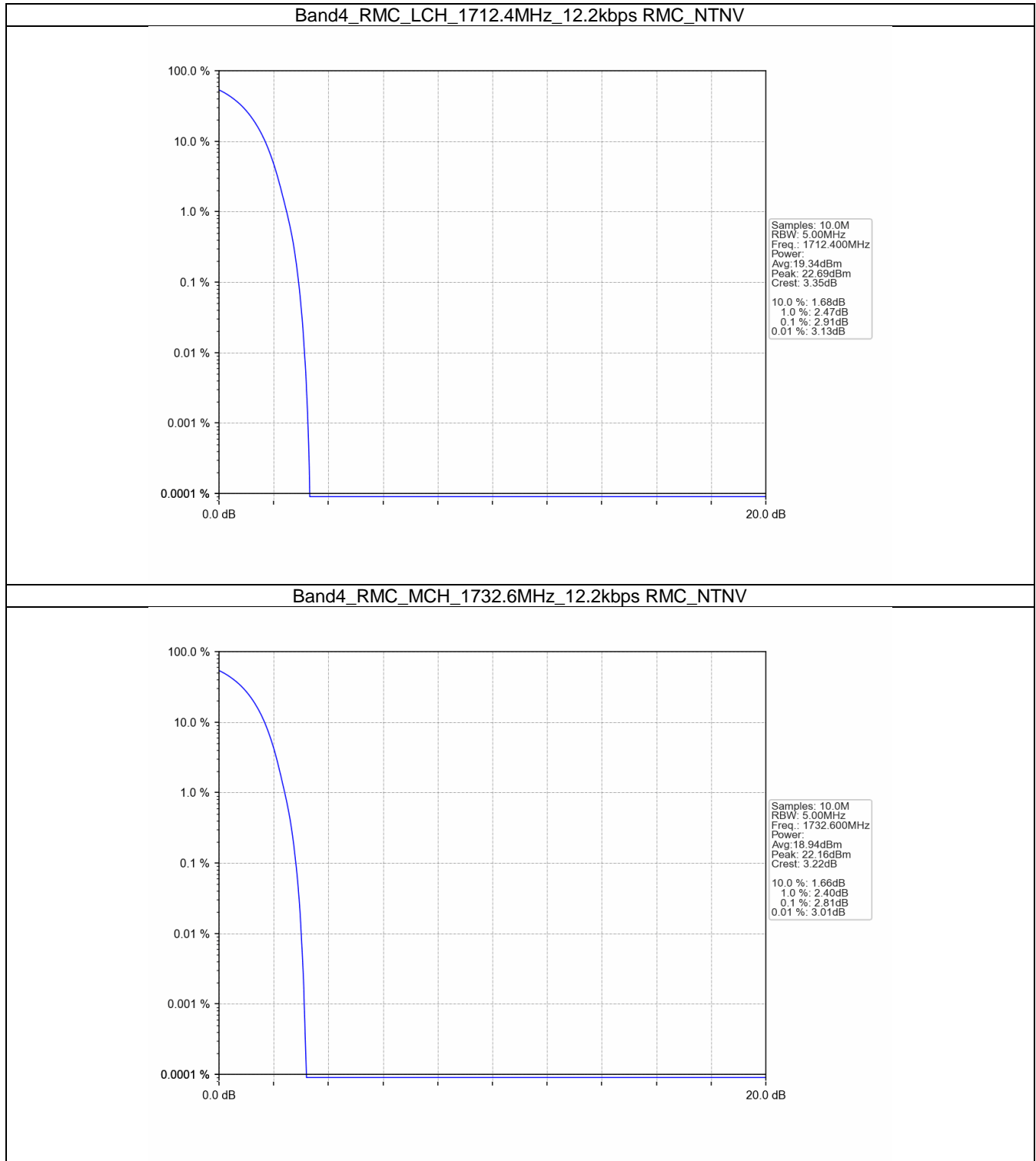
### 5.1 Test Result

#### 5.1.1 Band4

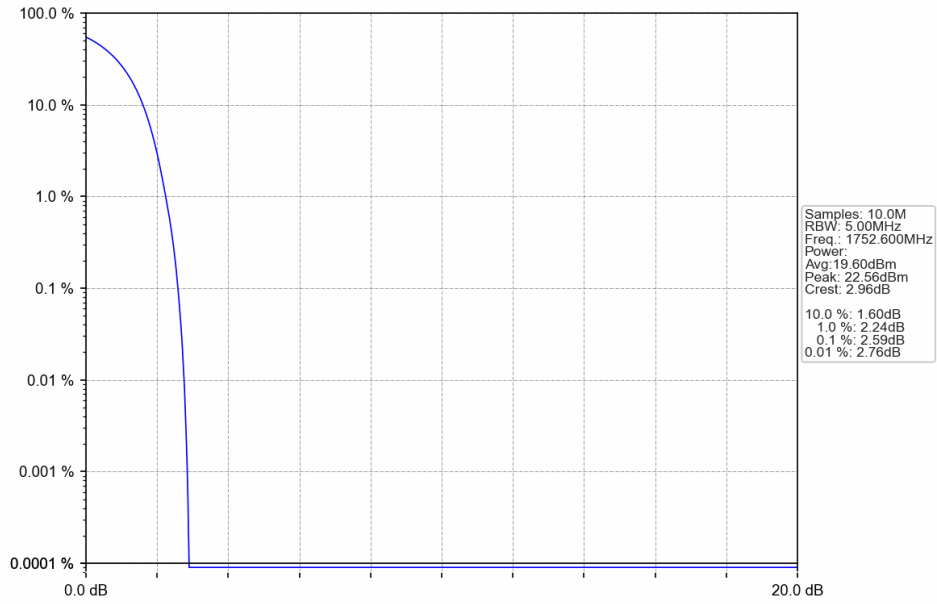
| Band: 4 |         |              |                 |                         |       |         |
|---------|---------|--------------|-----------------|-------------------------|-------|---------|
| ENV     | Mode    |              | Frequency (MHz) | Peak-Average Ratio (dB) |       | Verdict |
|         | Network | Subset       |                 | Result                  | Limit |         |
| NTNV    | RMC     | 12.2kbps RMC | 1712.4          | 2.91                    | <=13  | Pass    |
|         |         |              | 1732.6          | 2.81                    | <=13  | Pass    |
|         |         |              | 1752.6          | 2.59                    | <=13  | Pass    |
|         | HSDPA   | Subtest 1    | 1712.4          | 5.85                    | <=13  | Pass    |
|         |         |              | 1732.6          | 5.69                    | <=13  | Pass    |
|         |         |              | 1752.6          | 5.71                    | <=13  | Pass    |
|         | HSUPA   | Subtest 1    | 1712.4          | 5.82                    | <=13  | Pass    |
|         |         |              | 1732.6          | 5.76                    | <=13  | Pass    |
|         |         |              | 1752.6          | 5.67                    | <=13  | Pass    |

## 5.2 Test Graph

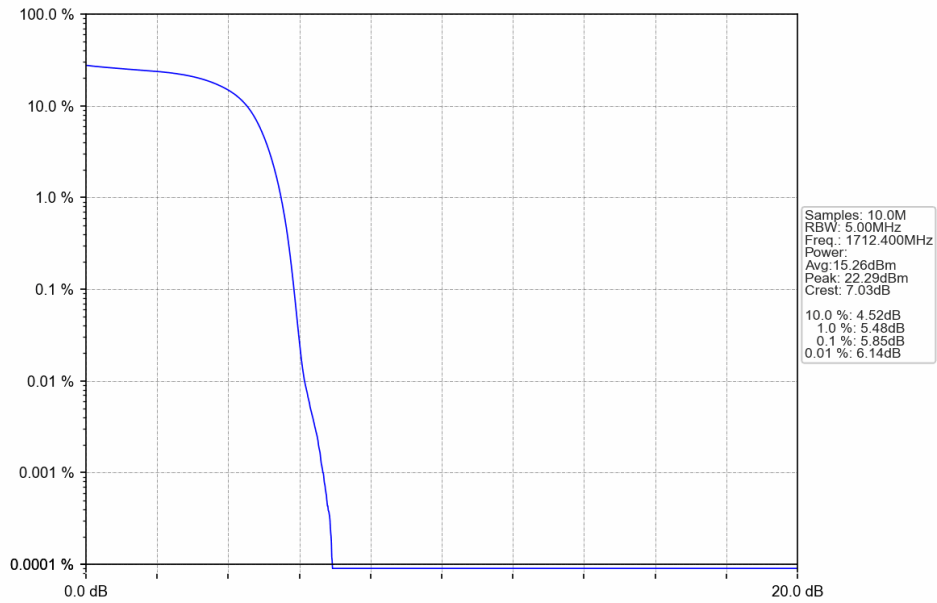
### 5.2.1 Band4



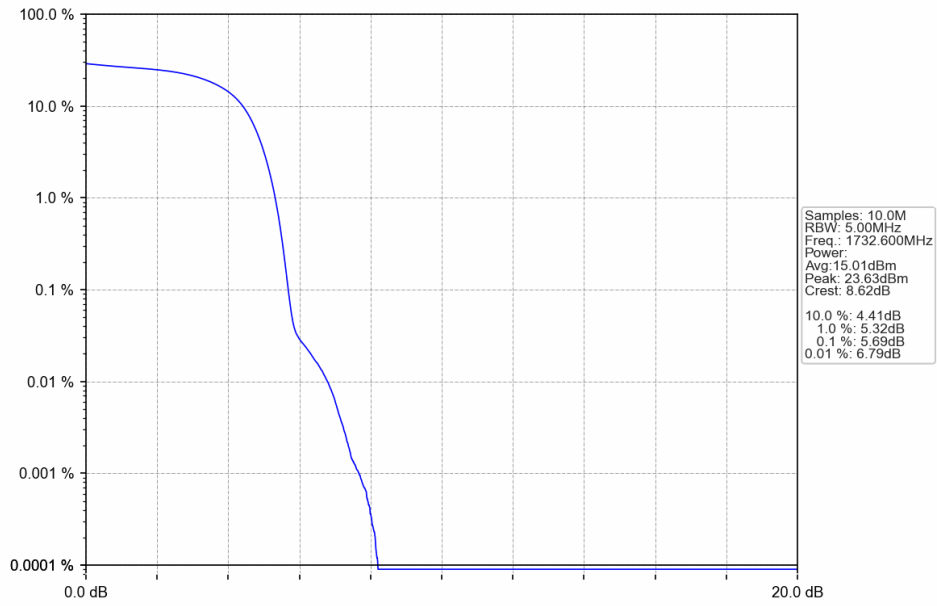
Band4\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV



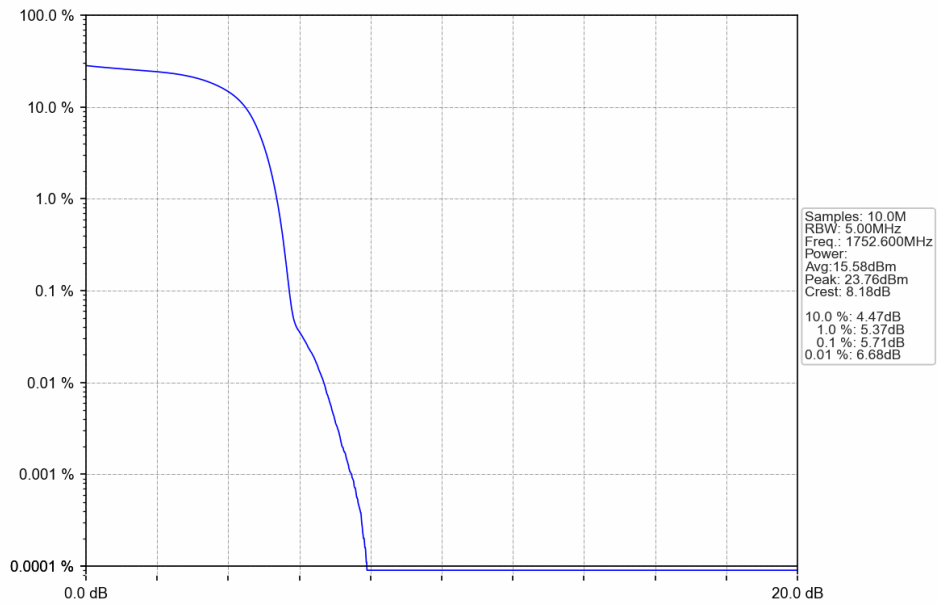
Band4\_HSDPA\_LCH\_1712.4MHz\_Subtest 1\_NTNV



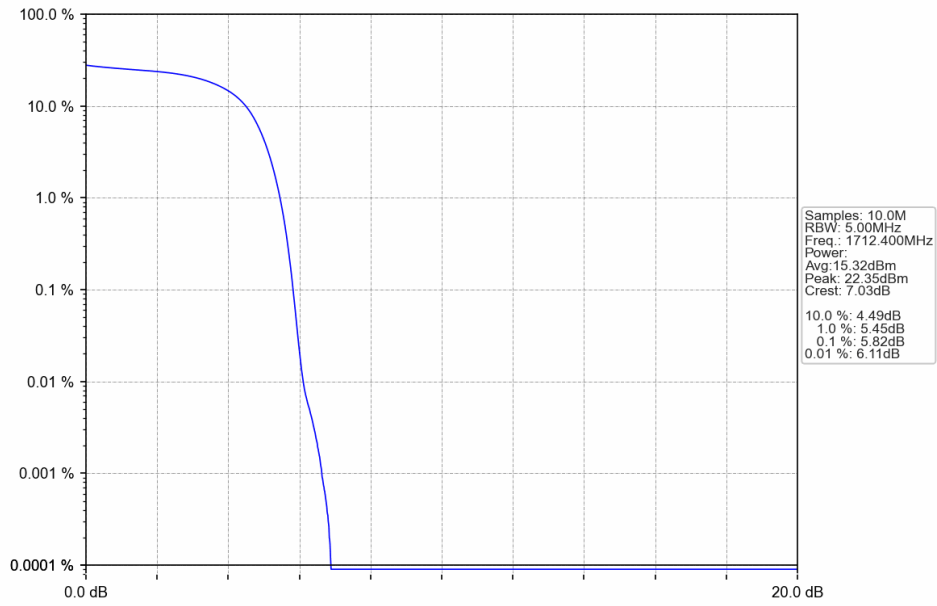
Band4\_HSDPA\_MCH\_1732.6MHz\_Subtest 1\_NTNV



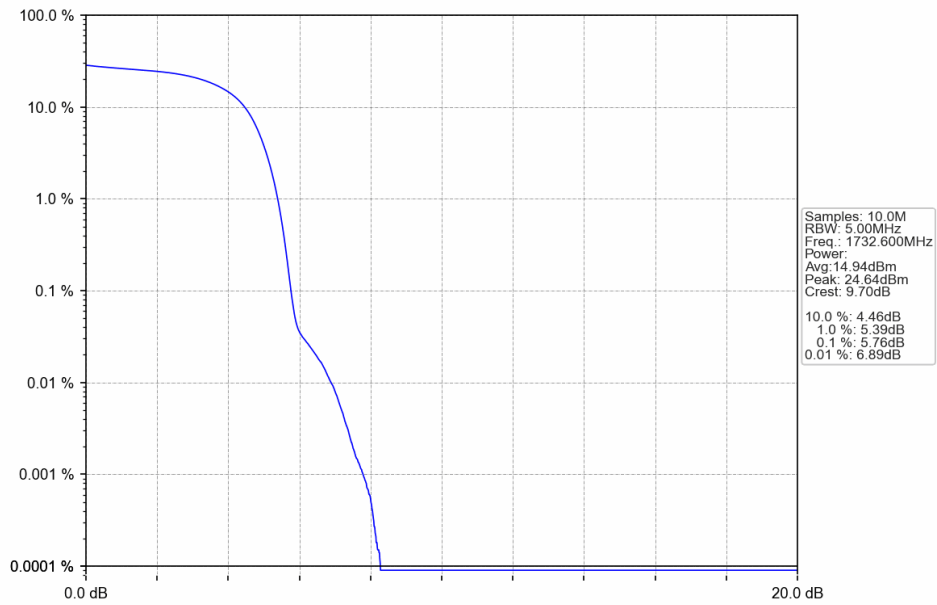
Band4\_HSDPA\_HCH\_1752.6MHz\_Subtest 1\_NTNV



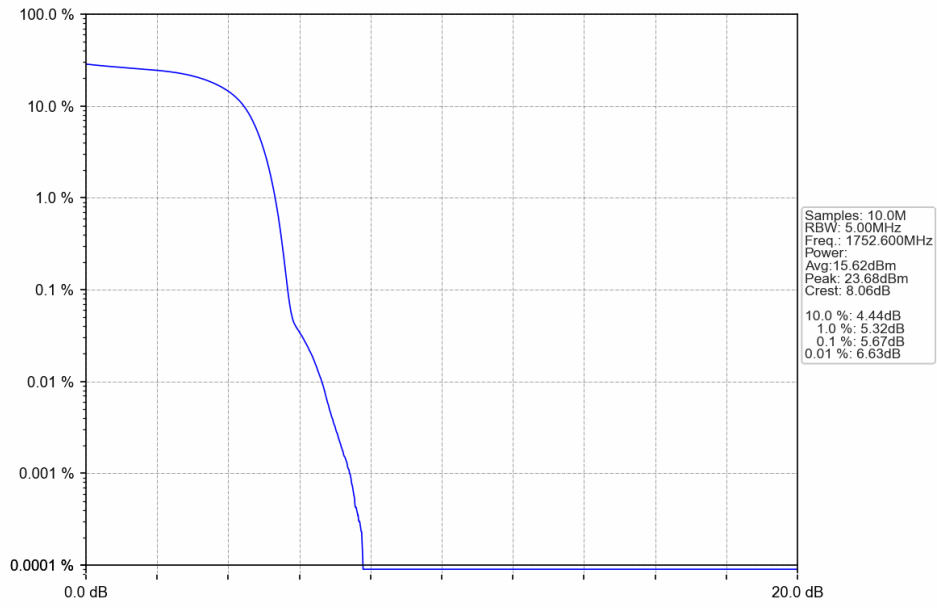
Band4\_HSUPA\_LCH\_1712.4MHz\_Subtest 1\_NTNV



Band4\_HSUPA\_MCH\_1732.6MHz\_Subtest 1\_NTNV



Band4\_HSUPA\_HCH\_1752.6MHz\_Subtest 1\_NTNV



## 6. Spurious Emission

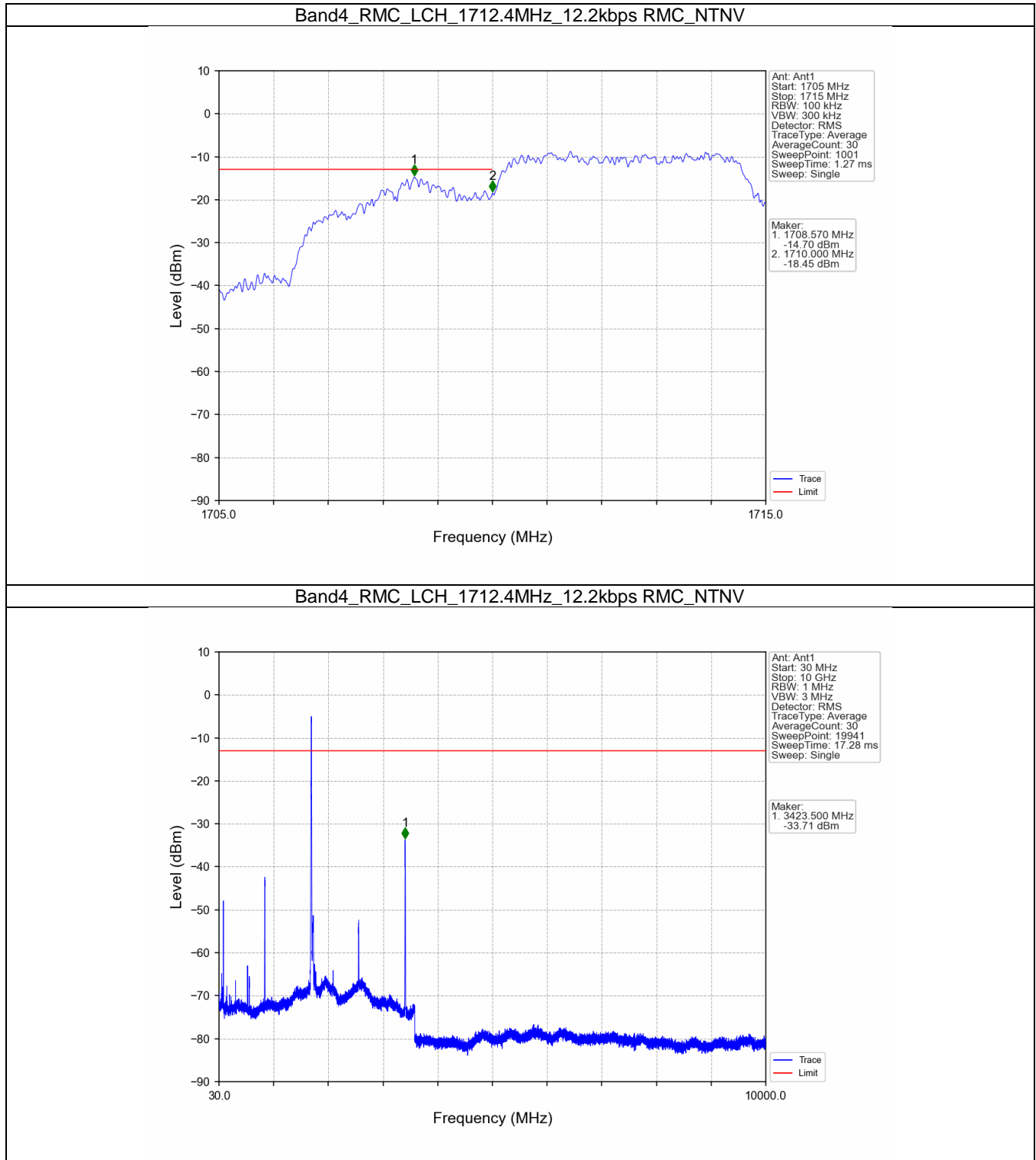
### 6.1 Test Result

#### 6.1.1 Band4

| Band: 4 |         |              |                 |                     |       |         |
|---------|---------|--------------|-----------------|---------------------|-------|---------|
| ENV     | Mode    |              | Frequency (MHz) | Spurious Emission   |       | Verdict |
|         | Network | Subset       |                 | Result              | Limit |         |
| NTNV    | RMC     | 12.2kbps RMC | 1712.4          | Refer To Test Graph |       | Pass    |
|         |         |              | 1732.6          | Refer To Test Graph |       | Pass    |
|         |         |              | 1752.6          | Refer To Test Graph |       | Pass    |
|         | HSDPA   | Subtest 1    | 1712.4          | Refer To Test Graph |       | Pass    |
|         |         |              | 1732.6          | Refer To Test Graph |       | Pass    |
|         |         |              | 1752.6          | Refer To Test Graph |       | Pass    |
|         | HSUPA   | Subtest 1    | 1712.4          | Refer To Test Graph |       | Pass    |
|         |         |              | 1732.6          | Refer To Test Graph |       | Pass    |
|         |         |              | 1752.6          | Refer To Test Graph |       | Pass    |

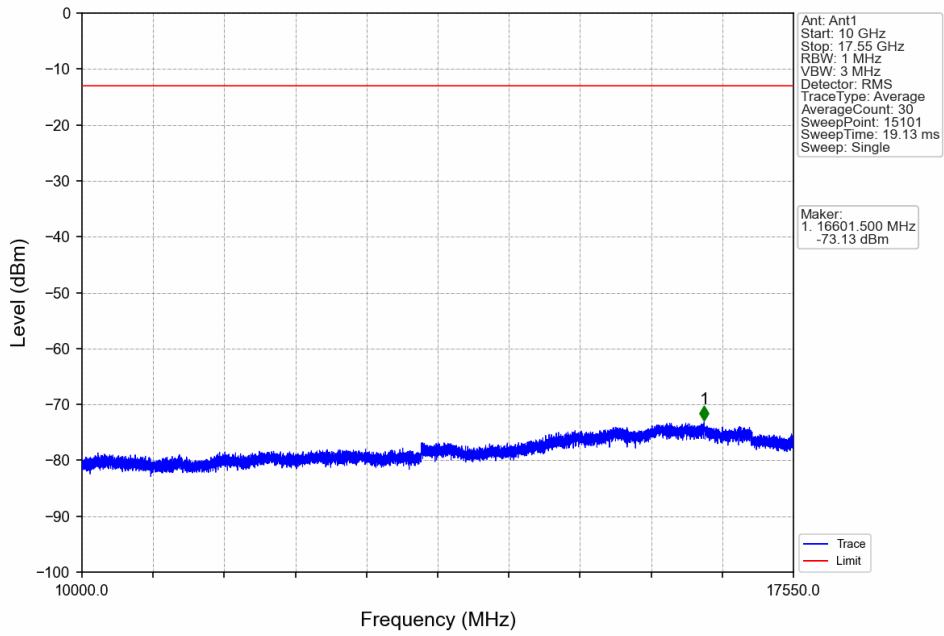
## 6.2 Test Graph

### 6.2.1 Band4

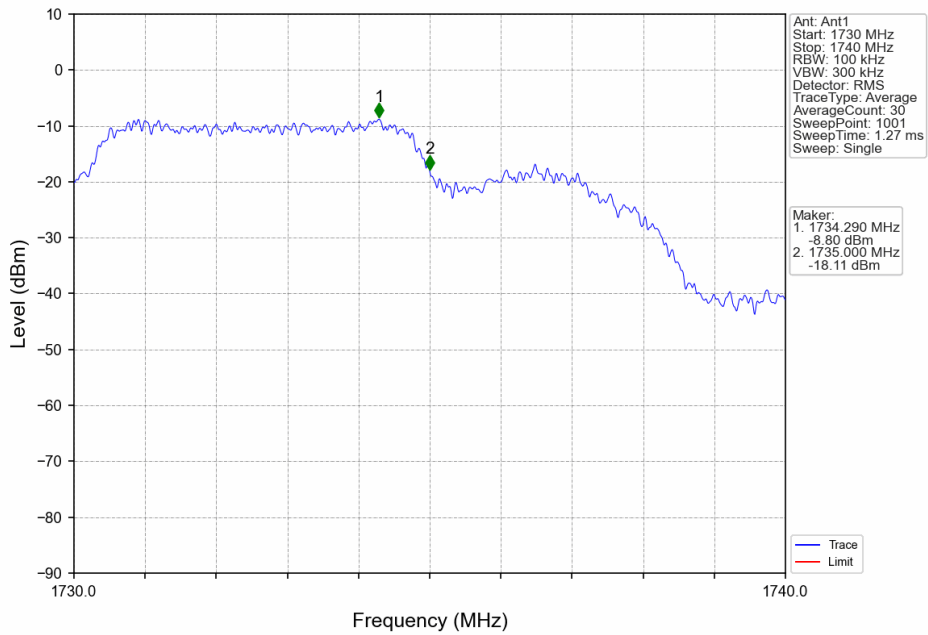




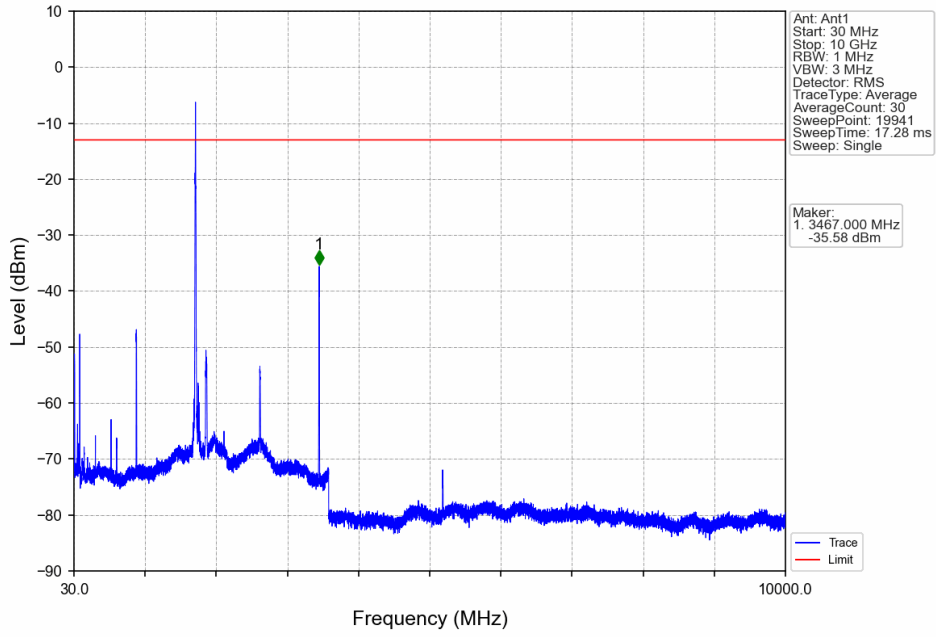
Band4\_RMC\_LCH\_1712.4MHz\_12.2kbps RMC\_NTNV



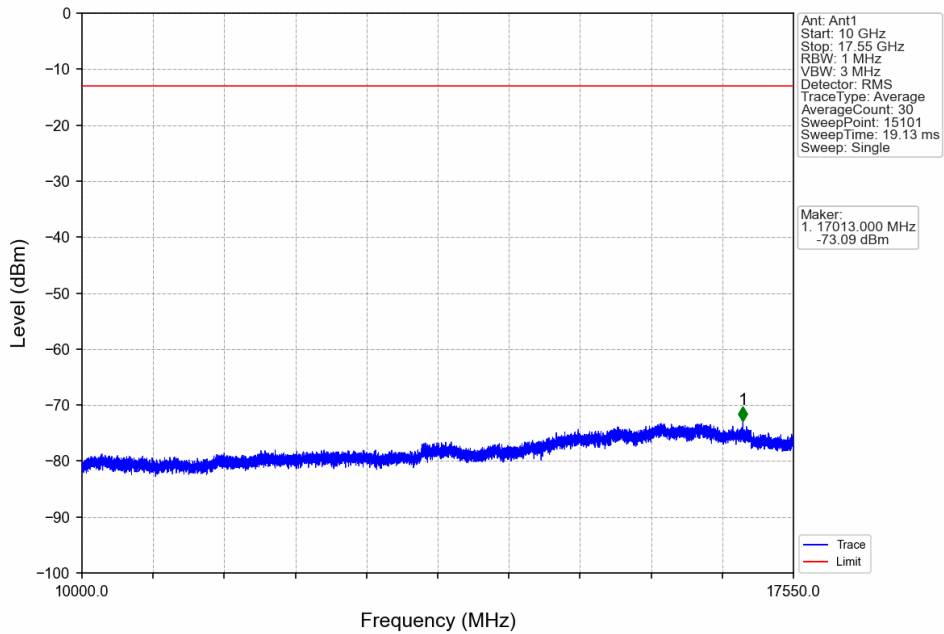
Band4\_RMC\_MCH\_1732.6MHz\_12.2kbps RMC\_NTNV



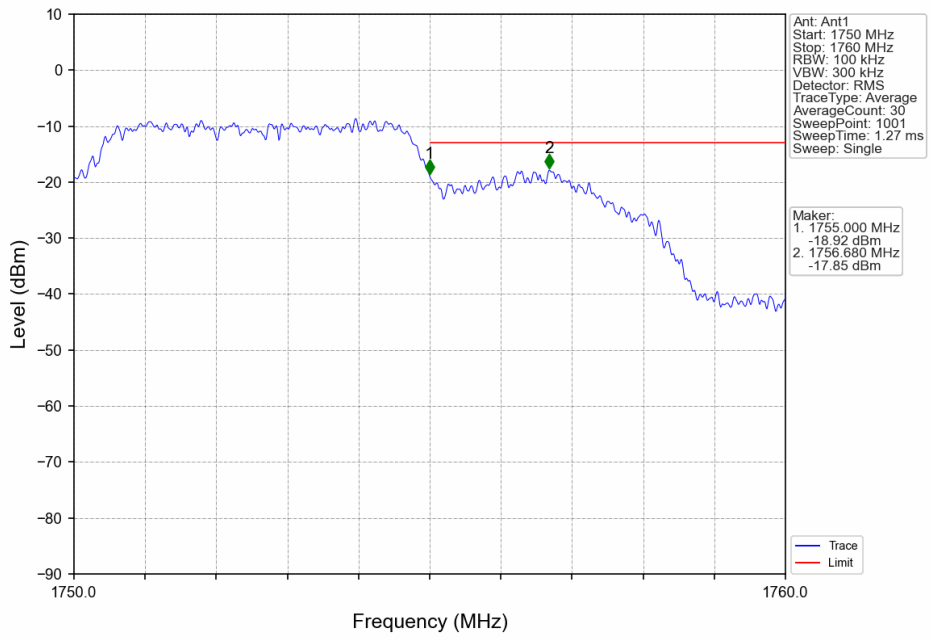
Band4\_RMC\_MCH\_1732.6MHz\_12.2kbps RMC\_NTNV



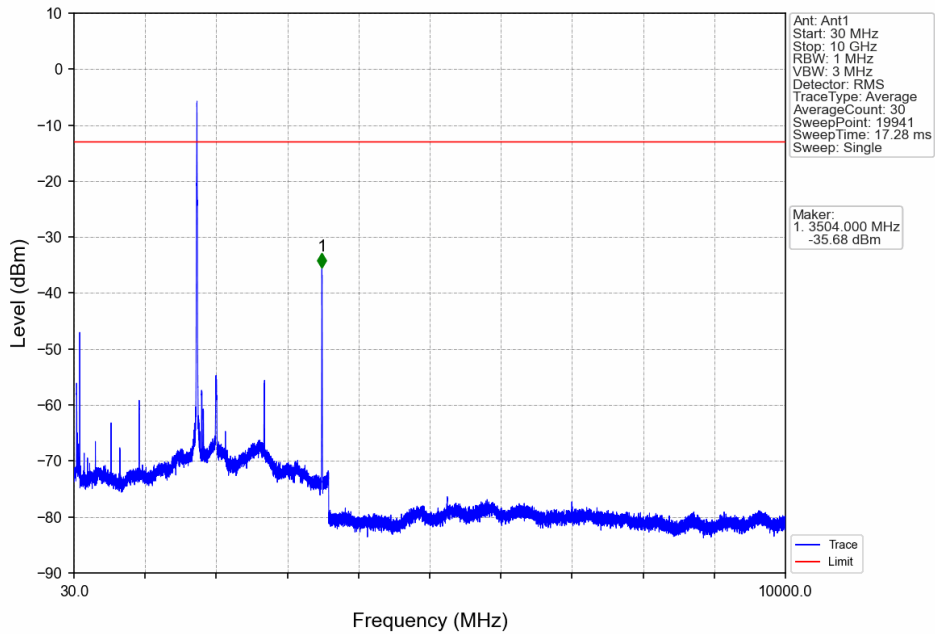
Band4\_RMC\_MCH\_1732.6MHz\_12.2kbps RMC\_NTNV



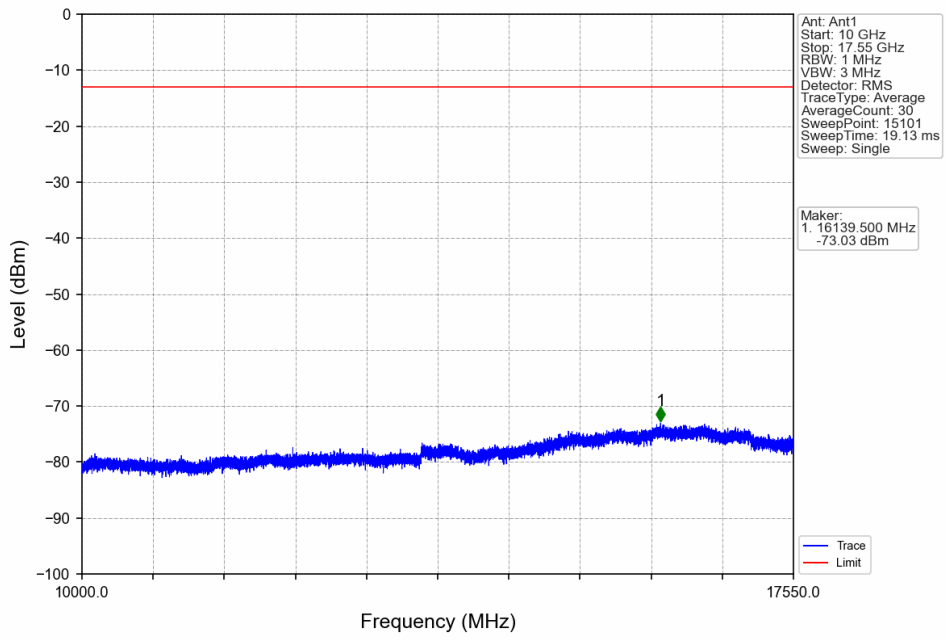
Band4\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV



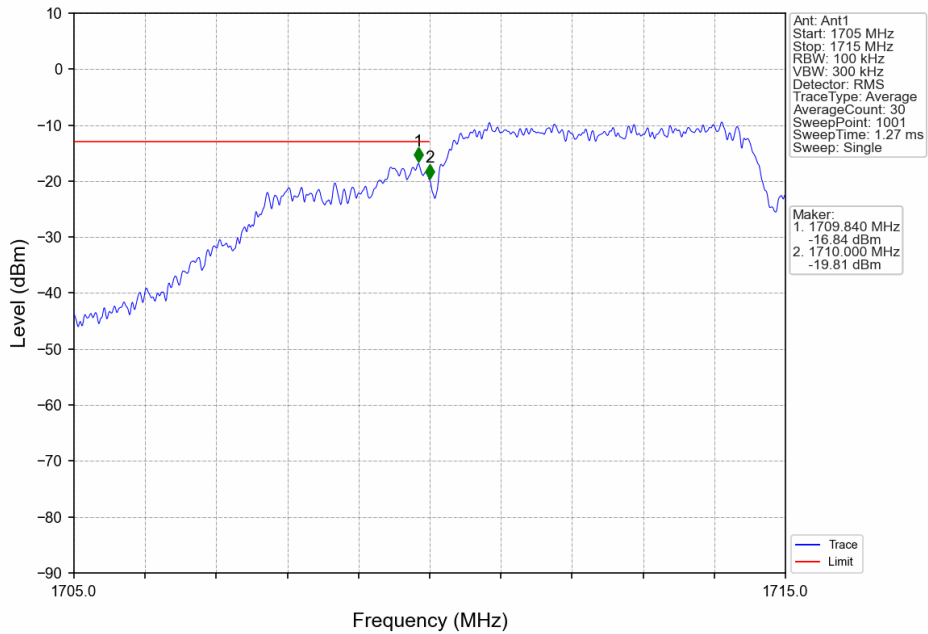
Band4\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV



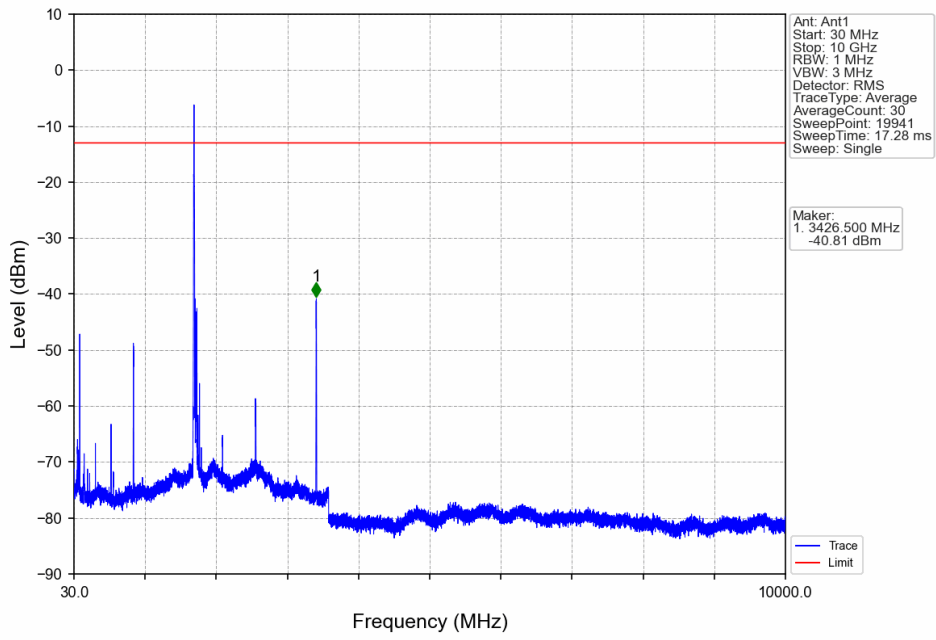
Band4\_RMC\_HCH\_1752.6MHz\_12.2kbps RMC\_NTNV



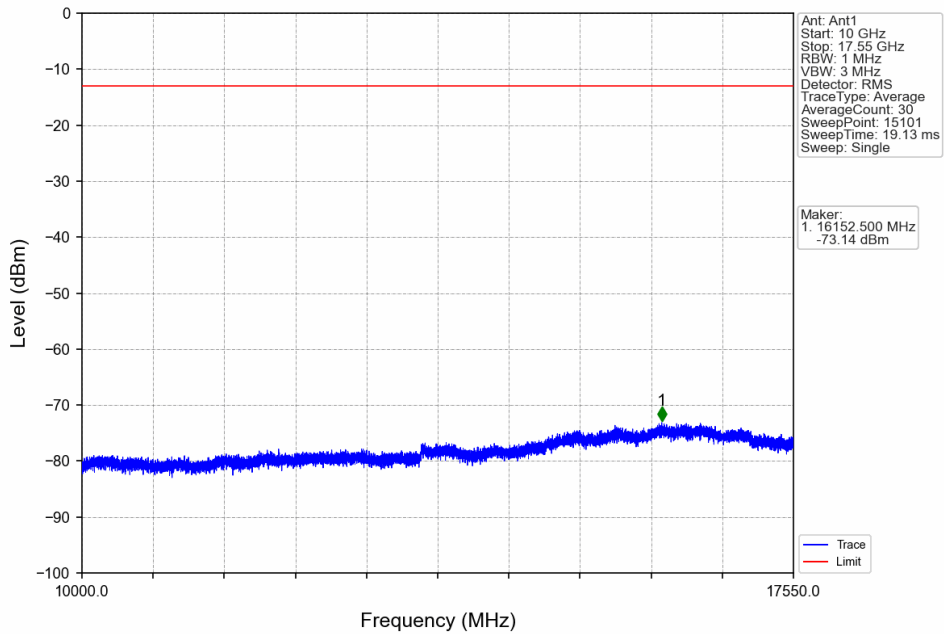
Band4\_HSDPA\_LCH\_1712.4MHz\_Subtest 1\_NTNV



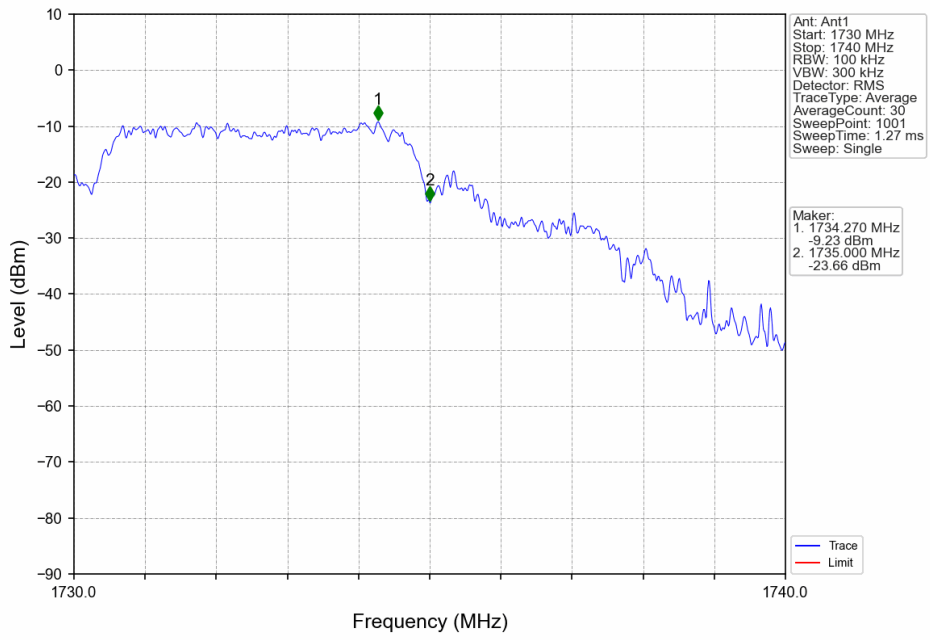
Band4\_HSDPA\_LCH\_1712.4MHz\_Subtest 1\_NTNV



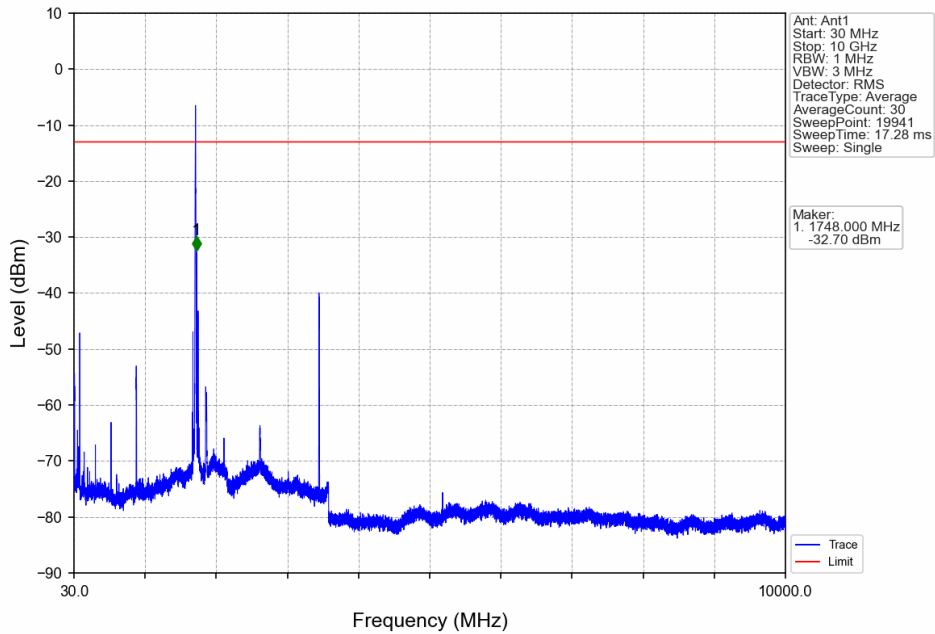
Band4\_HSDPA\_LCH\_1712.4MHz\_Subtest 1\_NTNV



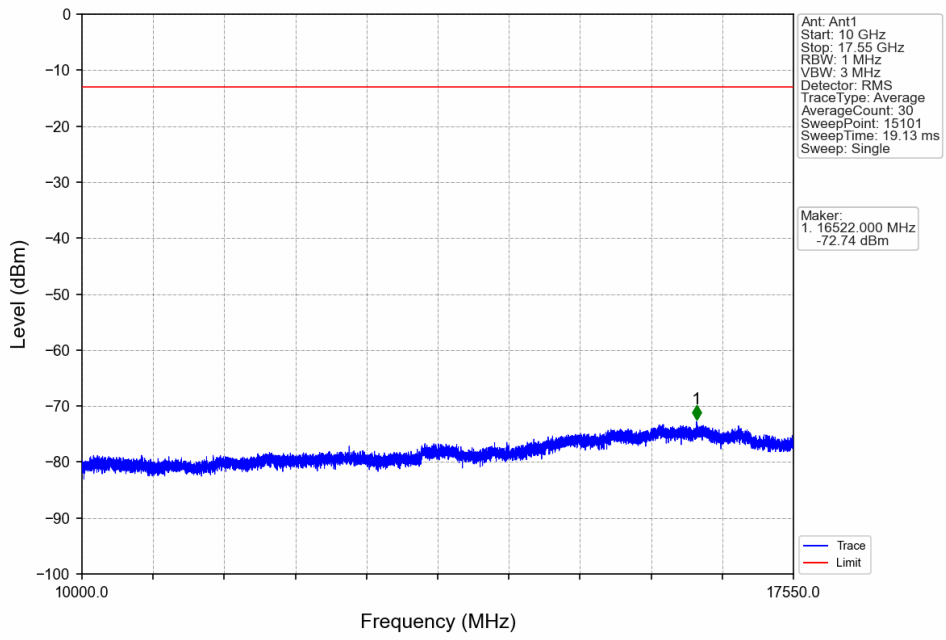
Band4\_HSDPA\_MCH\_1732.6MHz\_Subtest 1\_NTNV



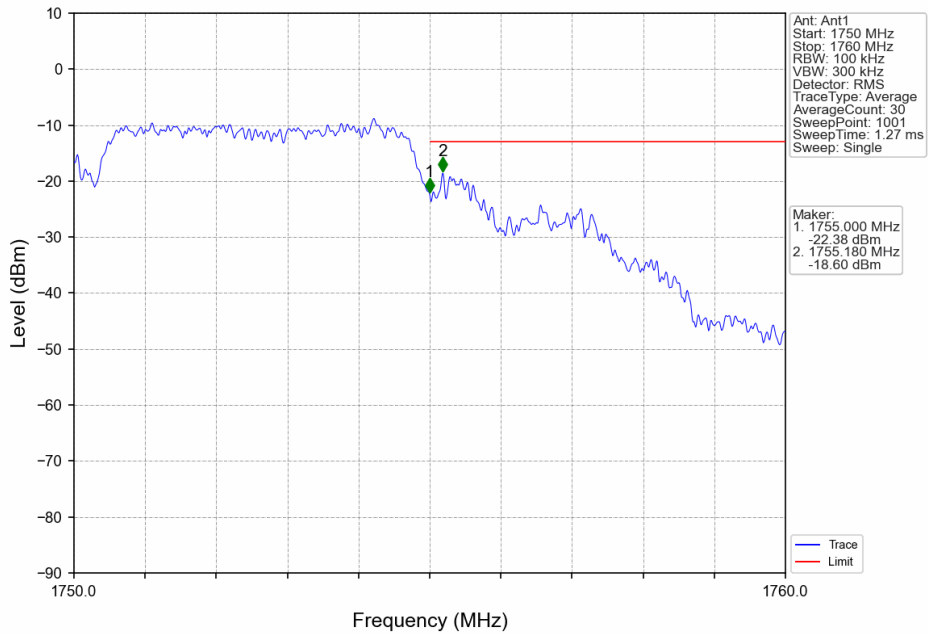
Band4\_HSDPA\_MCH\_1732.6MHz\_Subtest 1\_NTNV



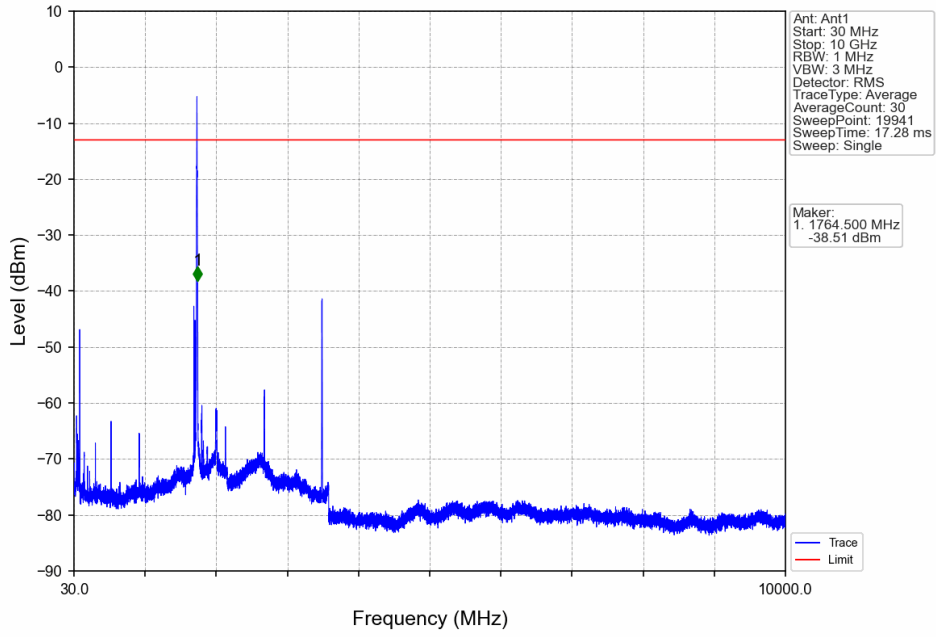
Band4\_HSDPA\_MCH\_1732.6MHz\_Subtest 1\_NTNV



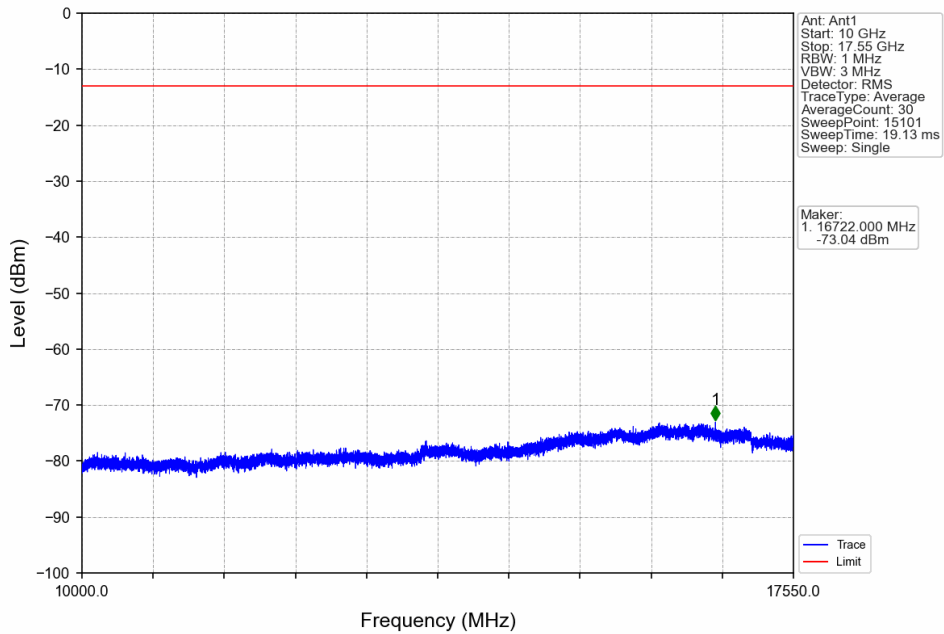
Band4\_HSDPA\_HCH\_1752.6MHz\_Subtest 1\_NTNV



Band4\_HSDPA\_HCH\_1752.6MHz\_Subtest 1\_NTNV

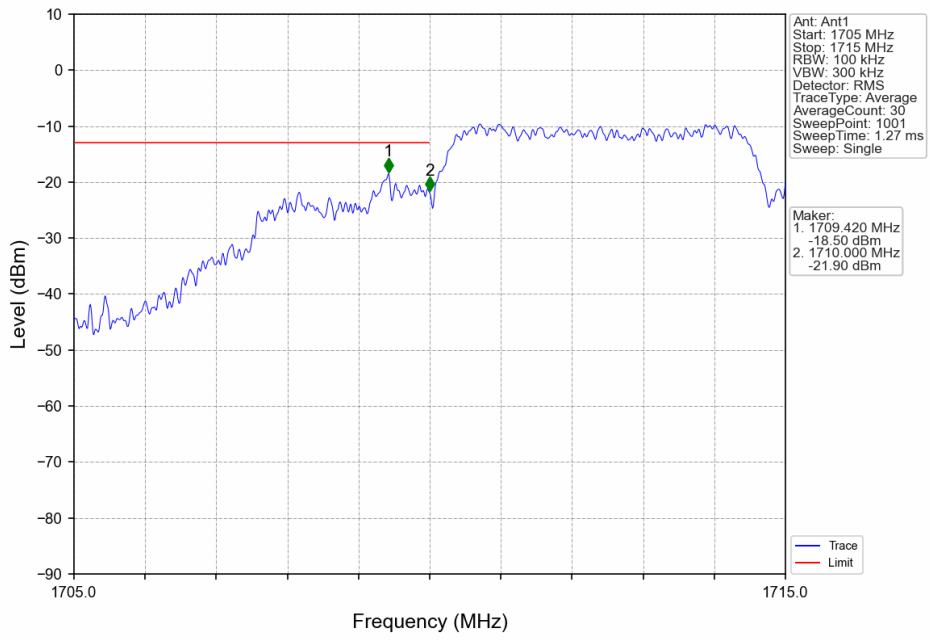


Band4\_HSDPA\_HCH\_1752.6MHz\_Subtest 1\_NTNV

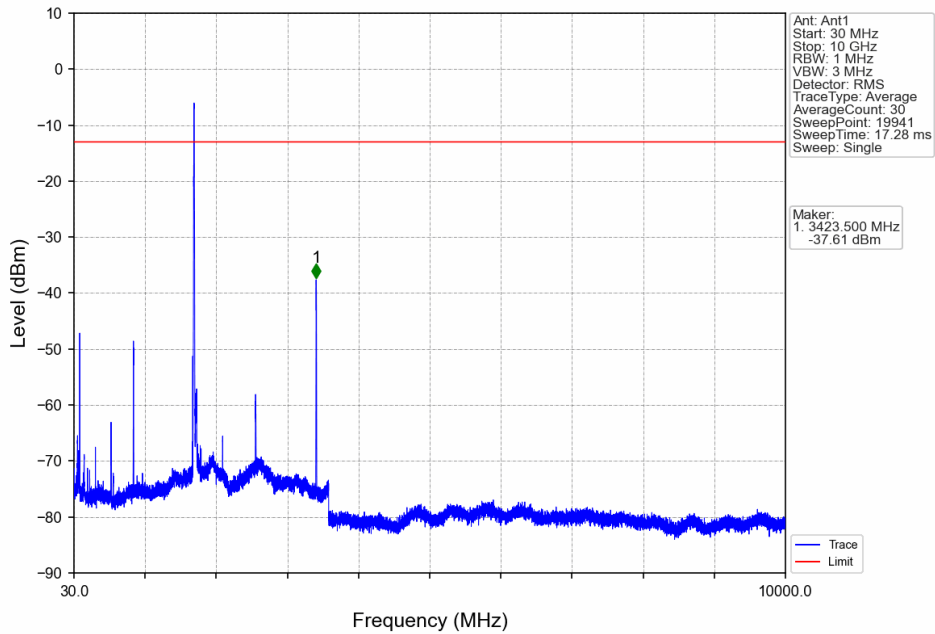




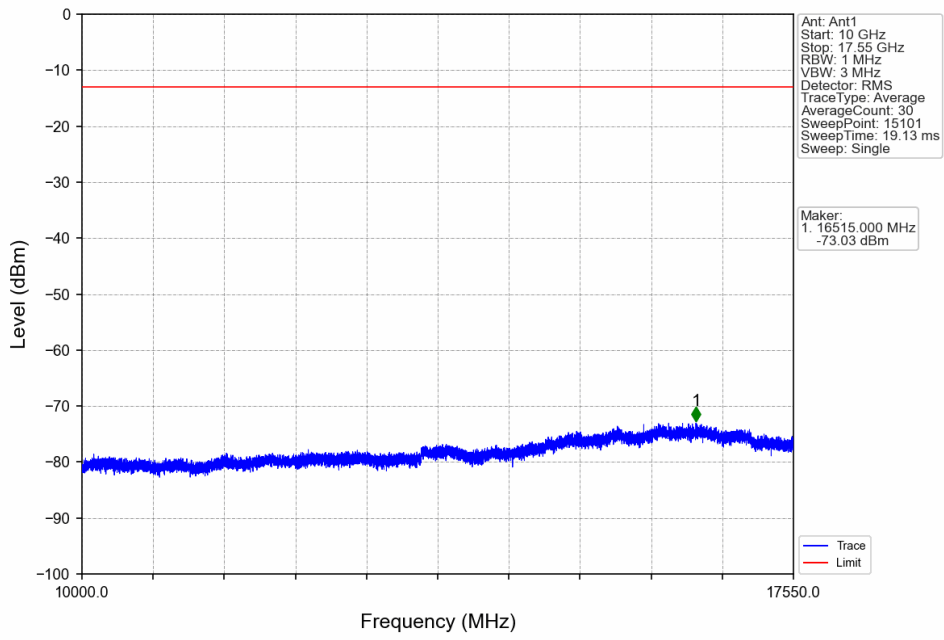
Band4\_HSUPA\_LCH\_1712.4MHz\_Subtest 1\_NTNV



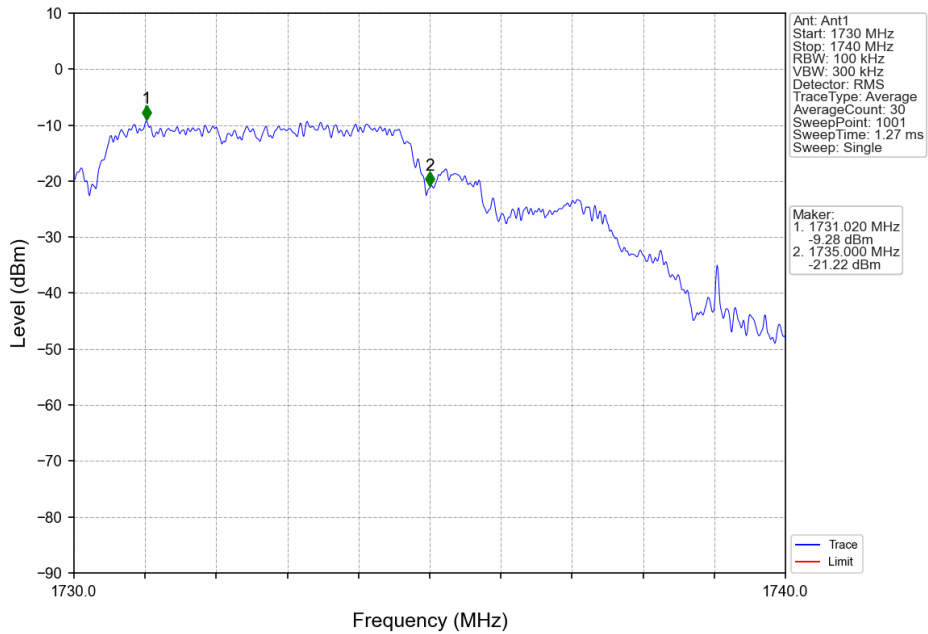
Band4\_HSUPA\_LCH\_1712.4MHz\_Subtest 1\_NTNV



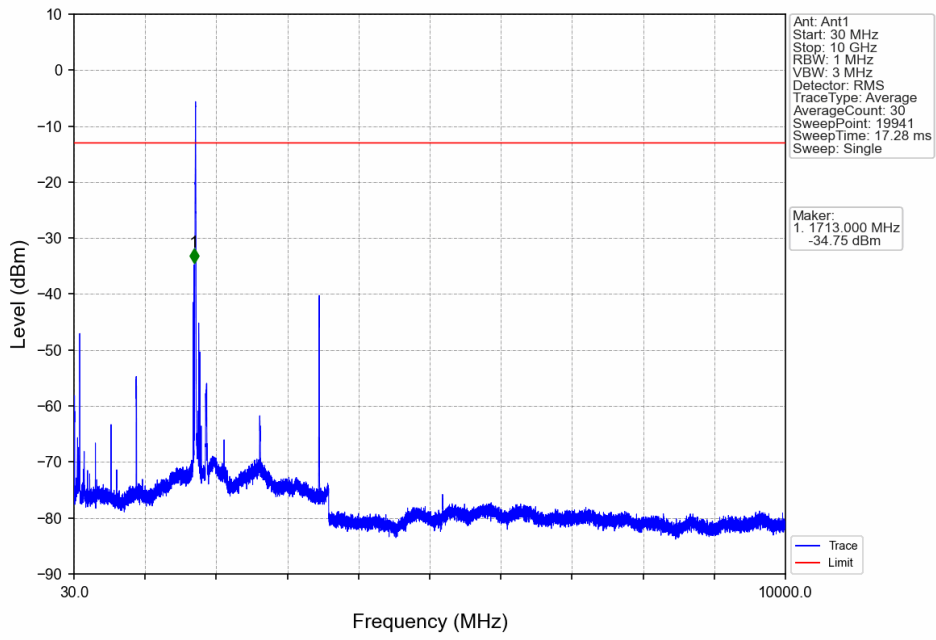
Band4\_HSUPA\_LCH\_1712.4MHz\_Subtest 1\_NTNV



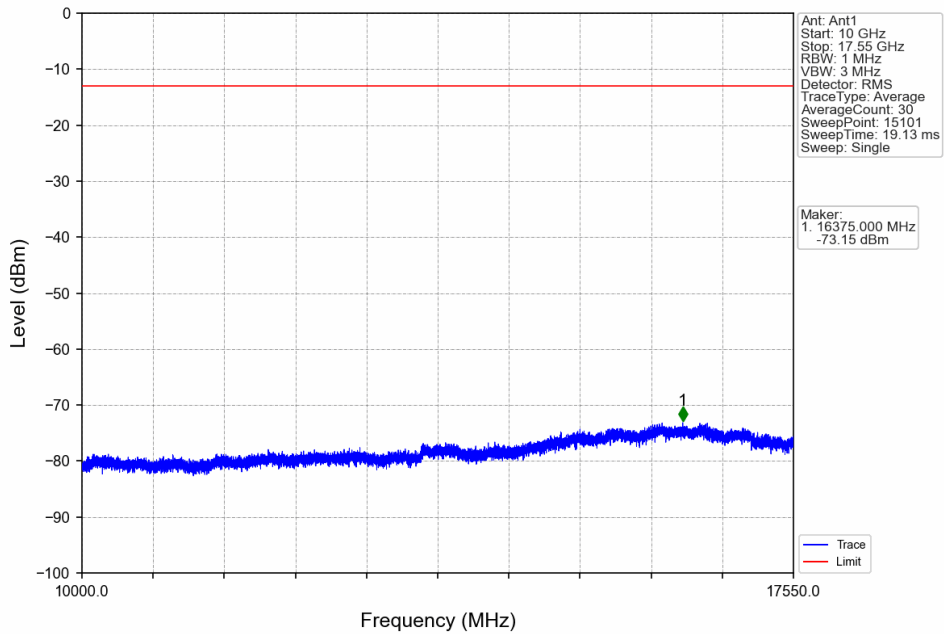
Band4\_HSUPA\_MCH\_1732.6MHz\_Subtest 1\_NTNV



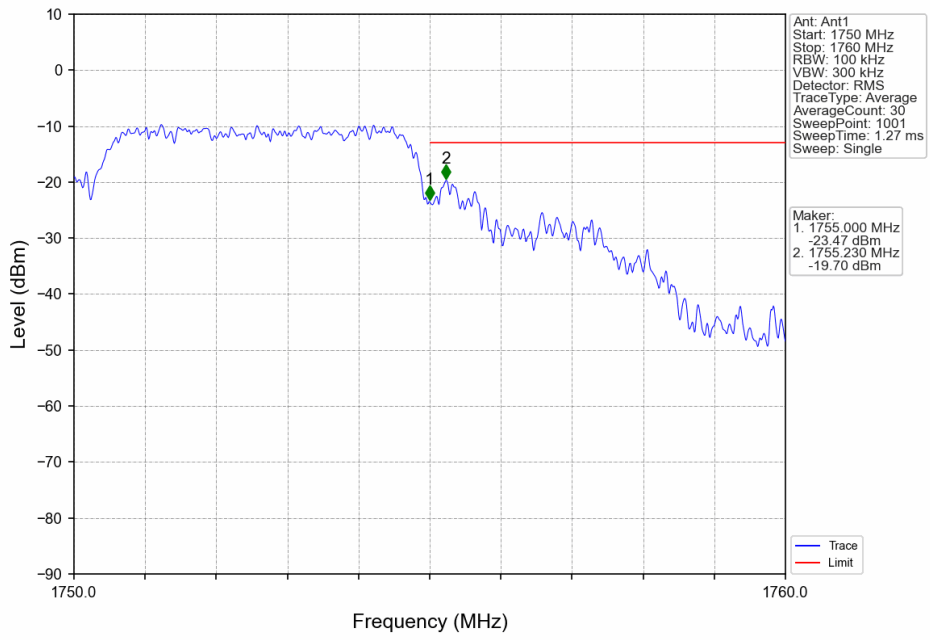
Band4\_HSUPA\_MCH\_1732.6MHz\_Subtest 1\_NTNV



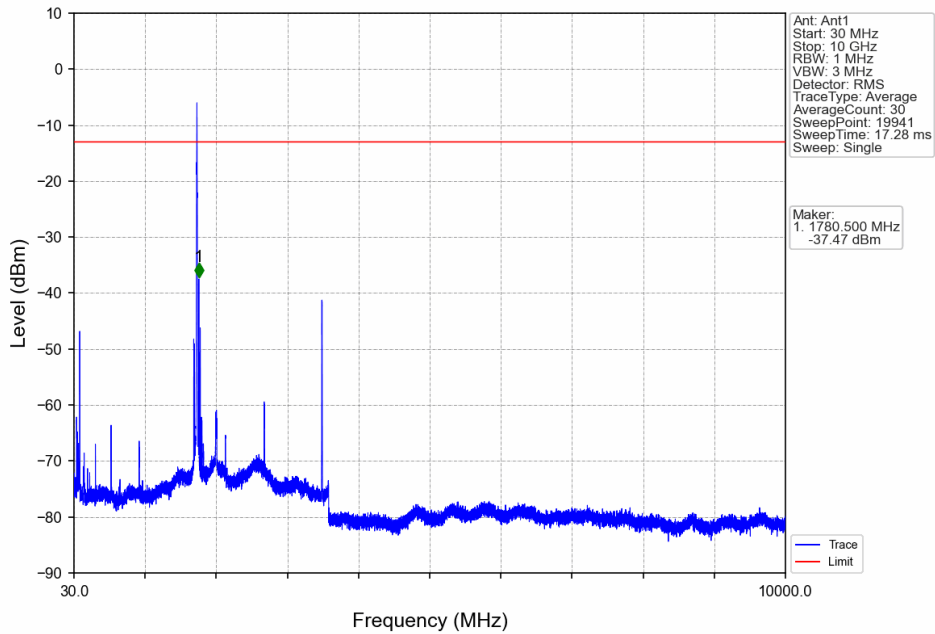
Band4\_HSUPA\_MCH\_1732.6MHz\_Subtest 1\_NTNV



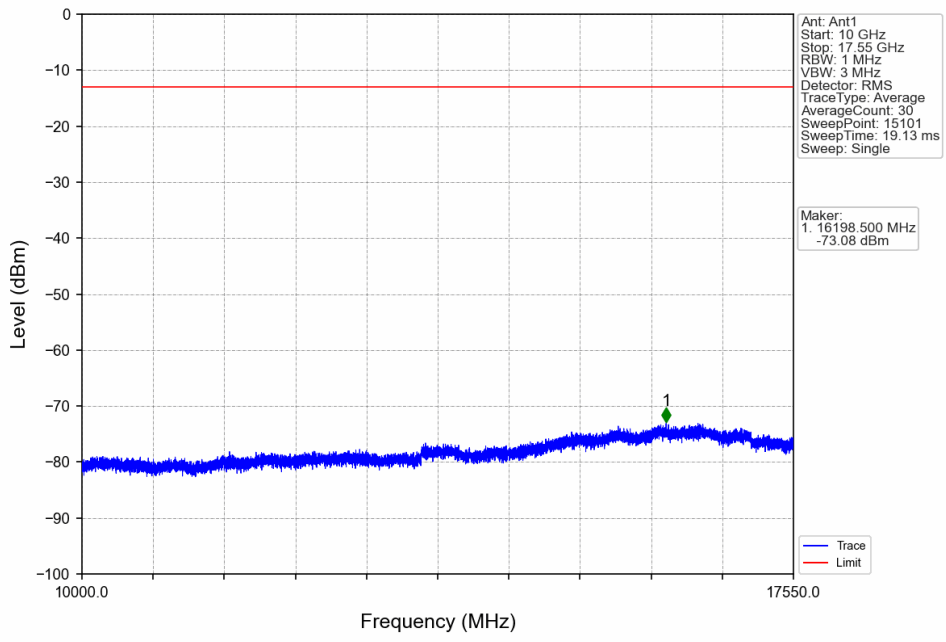
Band4\_HSUPA\_HCH\_1752.6MHz\_Subtest 1\_NTNV



Band4\_HSUPA\_HCH\_1752.6MHz\_Subtest 1\_NTNV



Band4\_HSUPA\_HCH\_1752.6MHz\_Subtest 1\_NTNV



## 7. Form731

### 7.1 Test Result

#### 7.1.1 Form731\_Power

| Band | BW   | Lower Freq | High Freq | MAX Power (W) | Value  | Hz/ppm | Emission Designator | Rule Parts | MAX Power (dBm) |
|------|------|------------|-----------|---------------|--------|--------|---------------------|------------|-----------------|
| 4    | 3.84 | 1712.4     | 1752.6    | 0.1626        | 0.0101 | ppm    | 4M25F9W             | 27L        | 22.11           |

#### 7.1.2 Form731\_EIRP

| Band | BW   | Lower Freq | High Freq | MAX Power (W) | Value  | Hz/ppm | Emission Designator | Rule Parts | MAX Power (dBm) |
|------|------|------------|-----------|---------------|--------|--------|---------------------|------------|-----------------|
| 4    | 3.84 | 1712.4     | 1752.6    | 0.1766        | 0.0101 | ppm    | 4M25F9W             | 27L        | 22.47           |