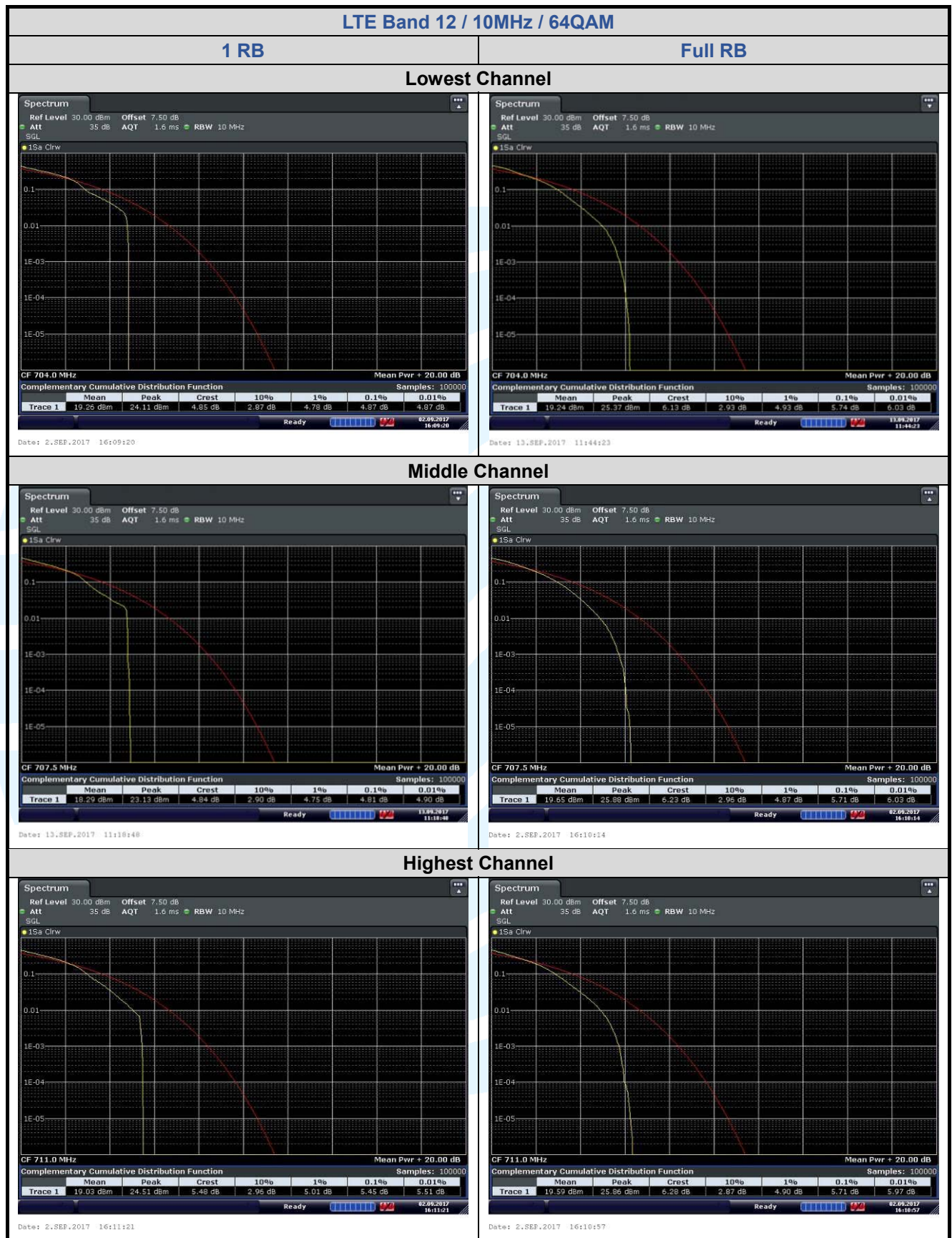
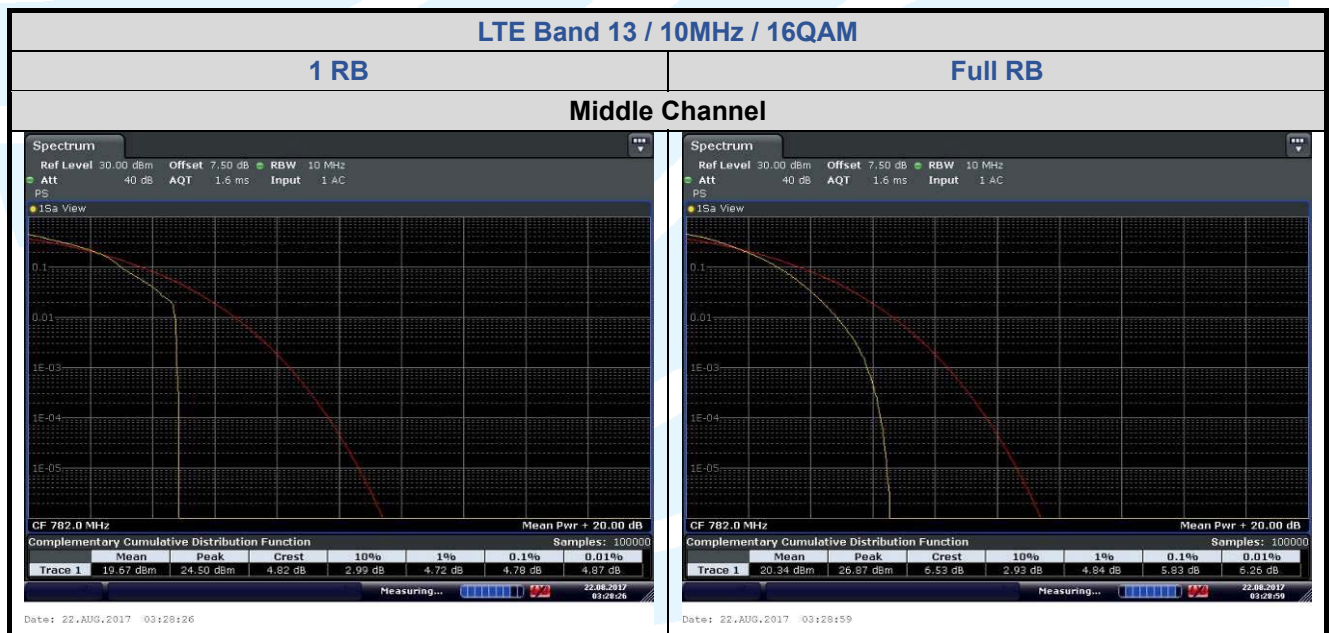
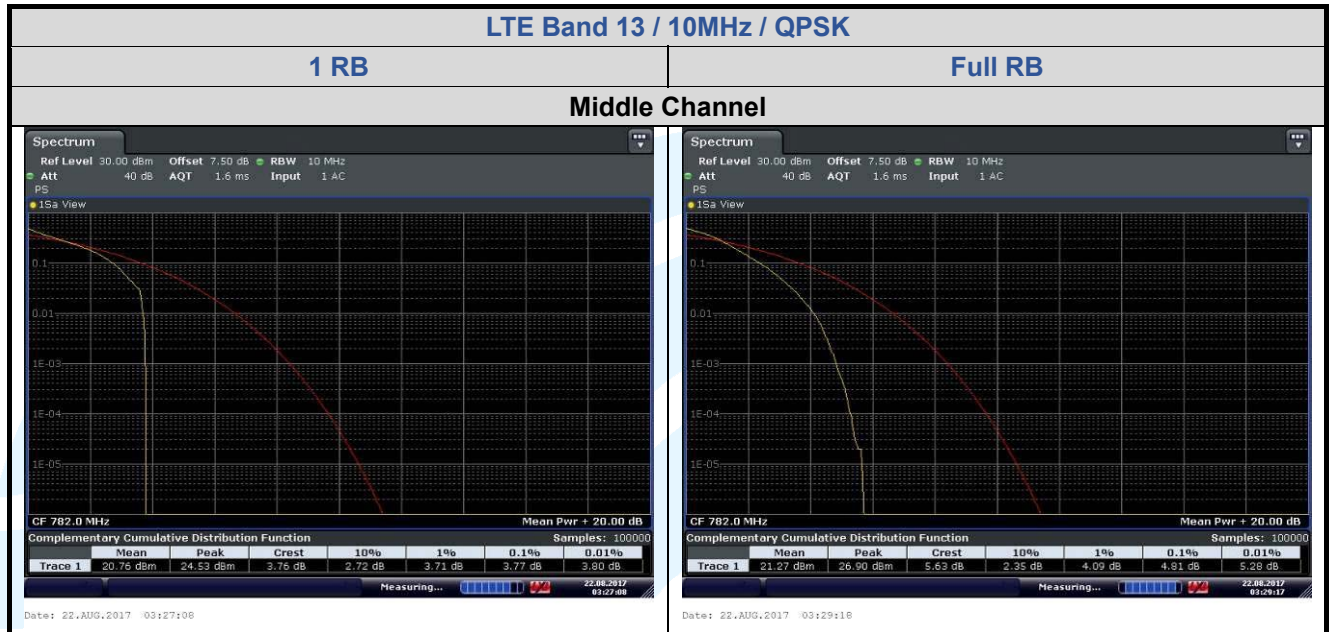
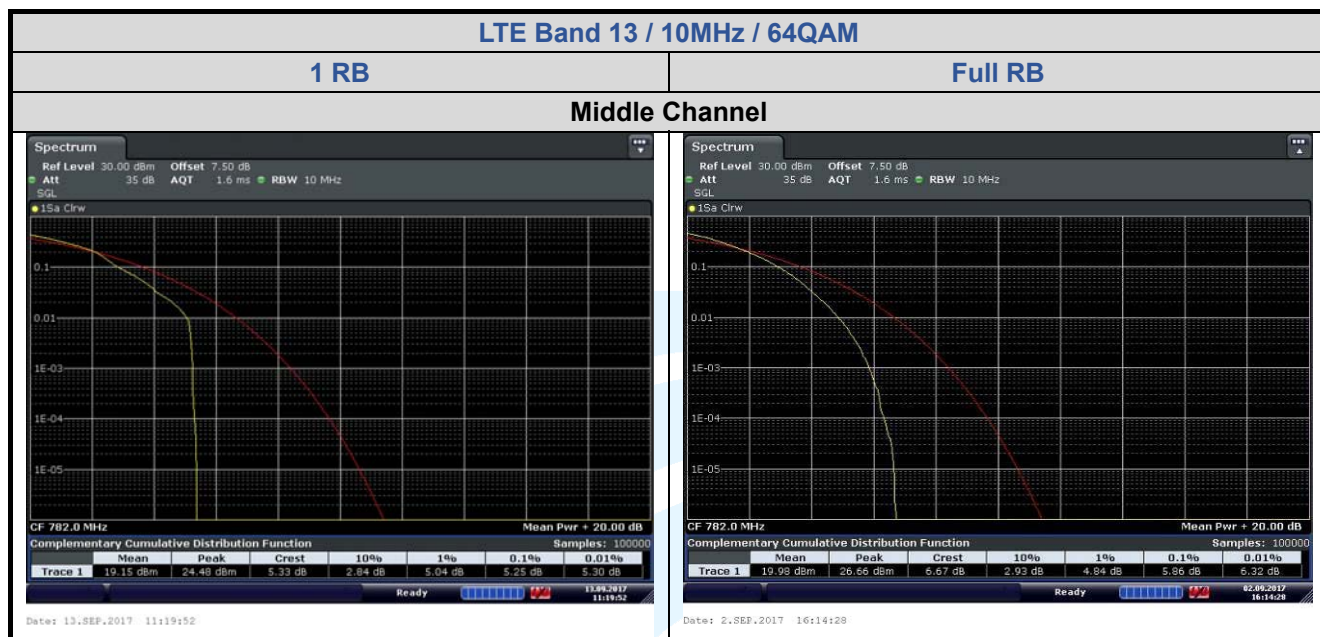




### 5.4.5 LTE Band 13

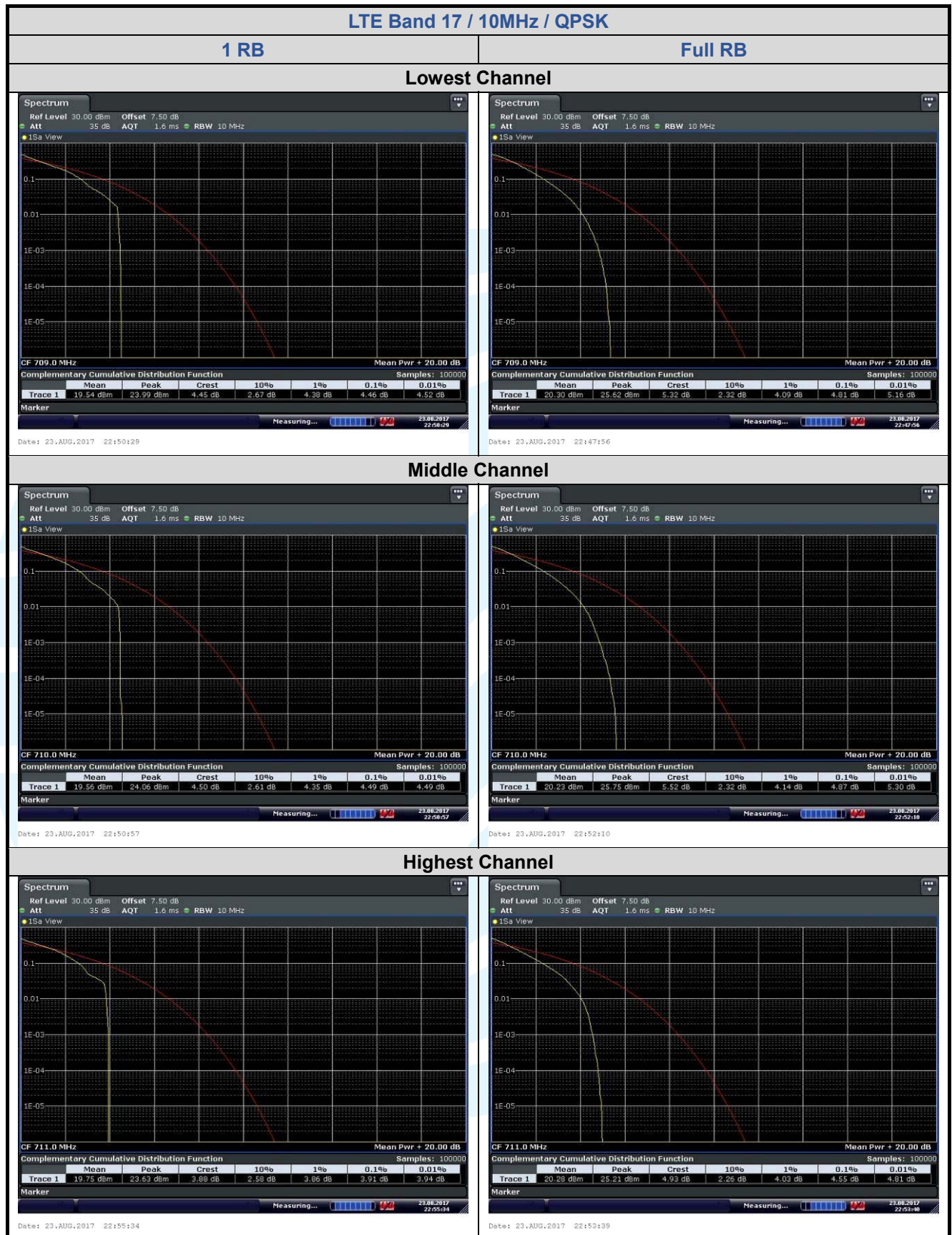
| Peak-to-average ratio (dB) |                  |                           |       |       |            |        |
|----------------------------|------------------|---------------------------|-------|-------|------------|--------|
| Channel                    | RB Configuration | Channel Bandwidth: 10 MHz |       |       | Limit (dB) | Result |
|                            |                  | QPSK                      | 16QAM | 64QAM |            |        |
| Middle                     | 1 RB             | 3.77                      | 4.78  | 5.25  | 13         | Pass   |
|                            | Full RB          | 4.81                      | 5.83  | 5.86  | 13         | Pass   |

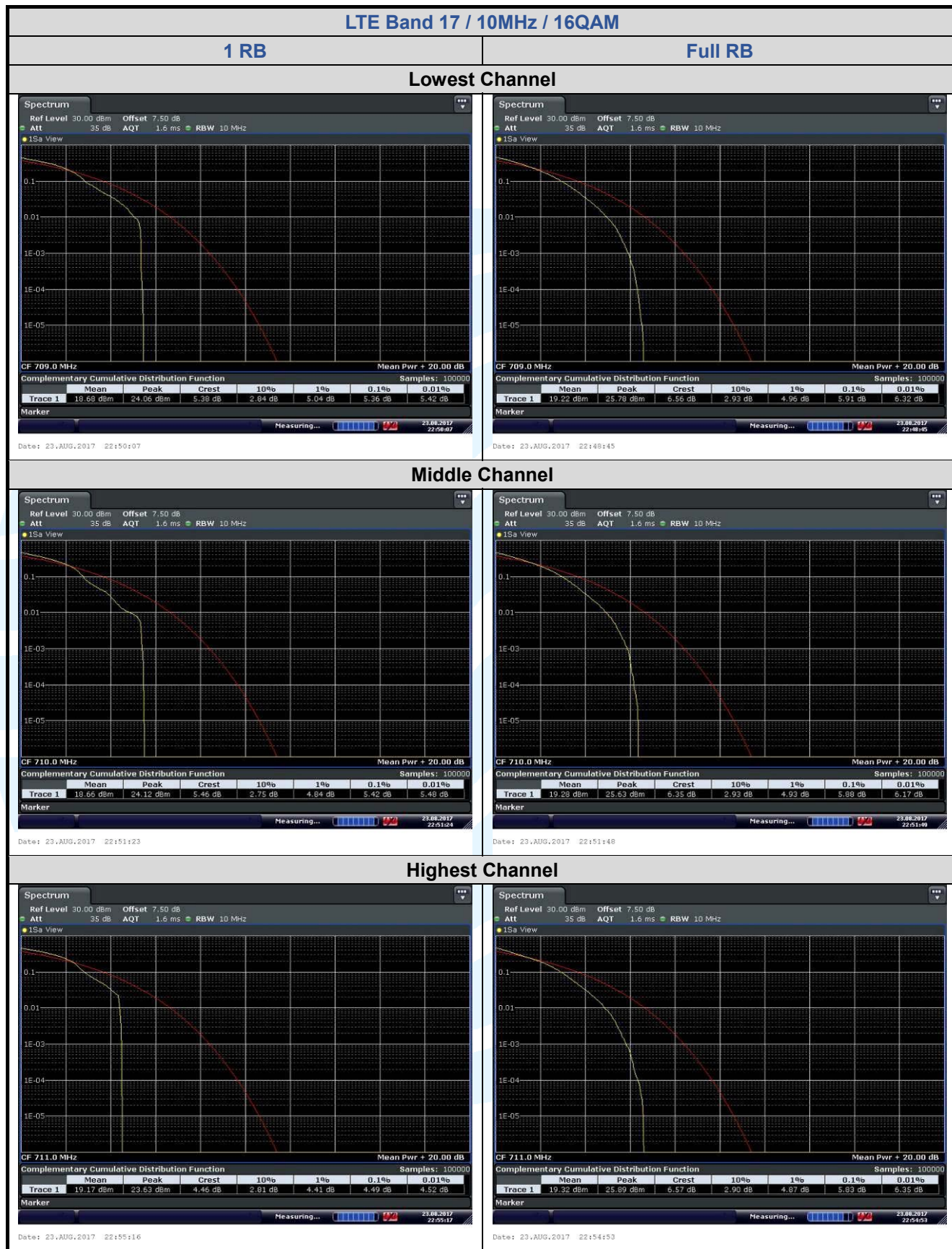


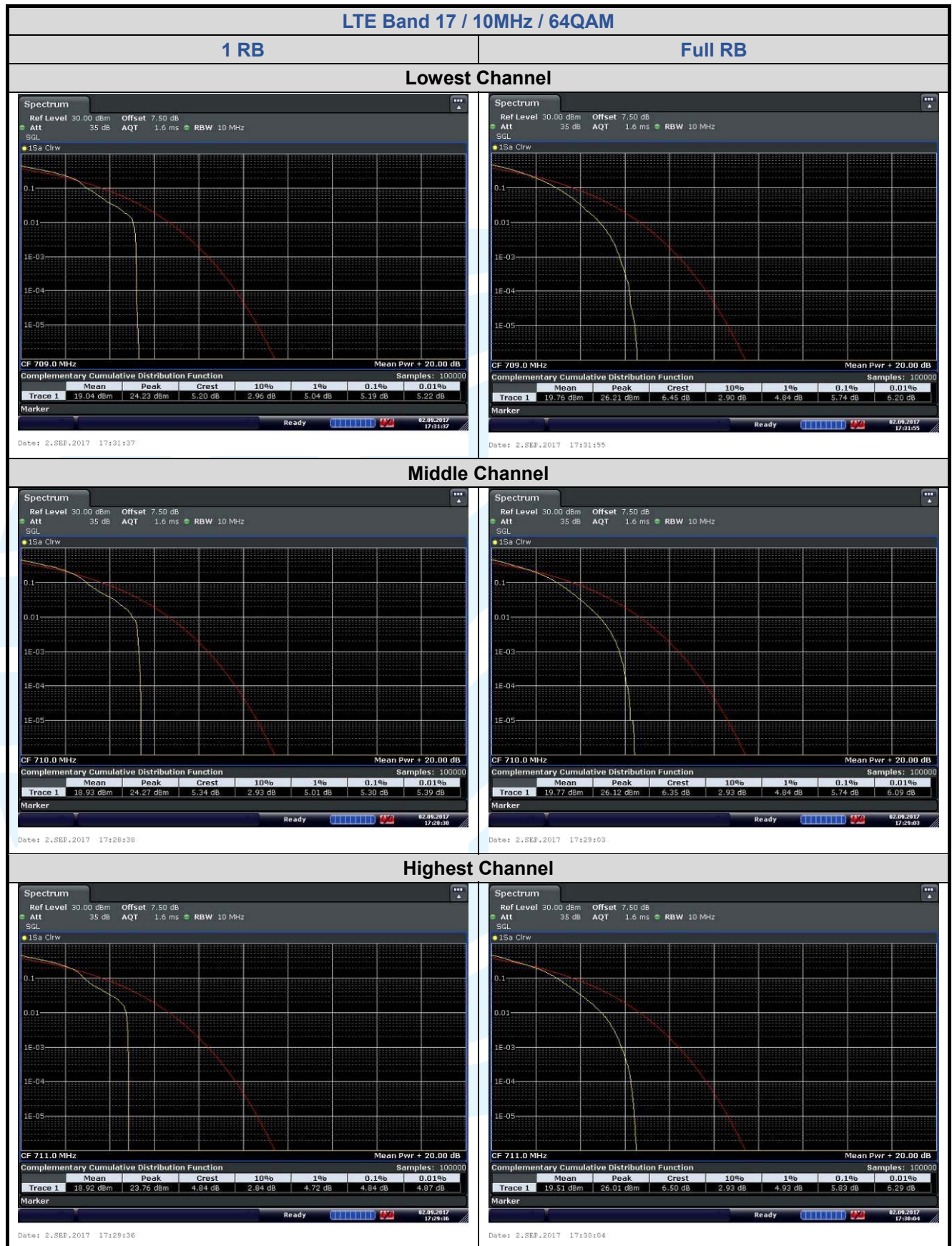


#### 5.4.6 LTE Band 17

| Peak-to-average ratio (dB) |                  |                           |       |       |            |        |
|----------------------------|------------------|---------------------------|-------|-------|------------|--------|
| Channel                    | RB Configuration | Channel Bandwidth: 10 MHz |       |       | Limit (dB) | Result |
|                            |                  | QPSK                      | 16QAM | 64QAM |            |        |
| Lowest                     | 1 RB             | 4.46                      | 5.36  | 5.19  | 13         | Pass   |
|                            | Full RB          | 4.81                      | 5.91  | 5.74  | 13         | Pass   |
| Middle                     | 1 RB             | 4.49                      | 5.42  | 5.30  | 13         | Pass   |
|                            | Full RB          | 4.87                      | 5.88  | 5.74  | 13         | Pass   |
| Highest                    | 1 RB             | 3.91                      | 4.49  | 4.84  | 13         | Pass   |
|                            | Full RB          | 4.55                      | 5.83  | 5.83  | 13         | Pass   |

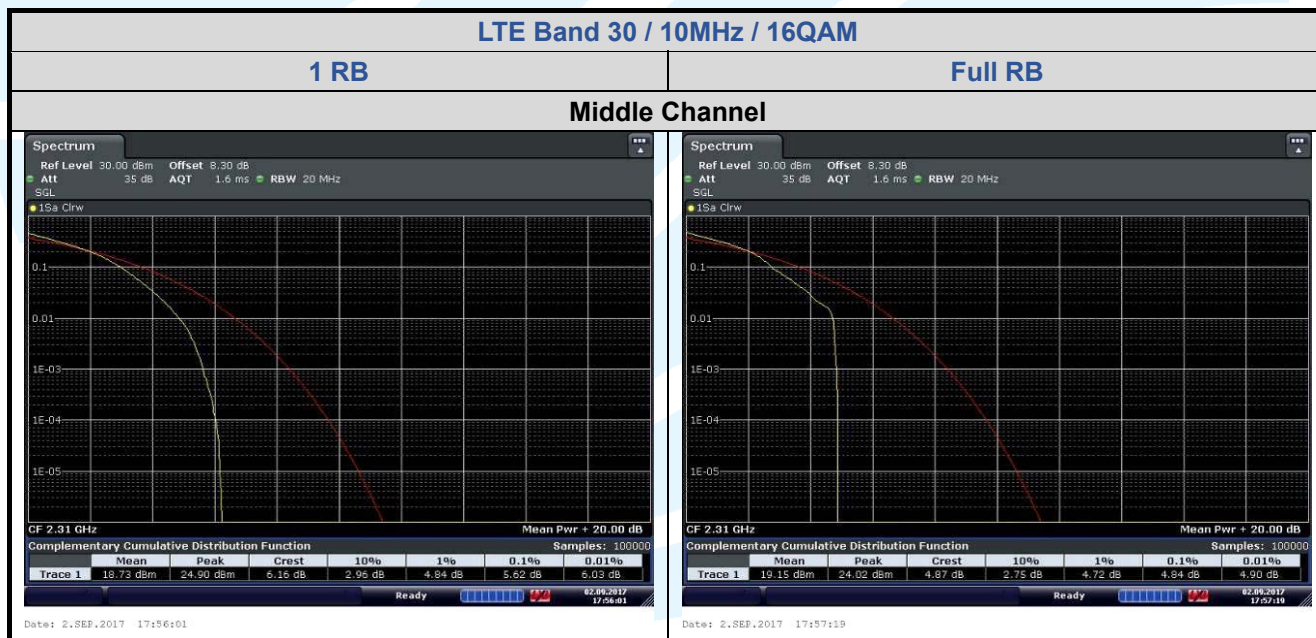
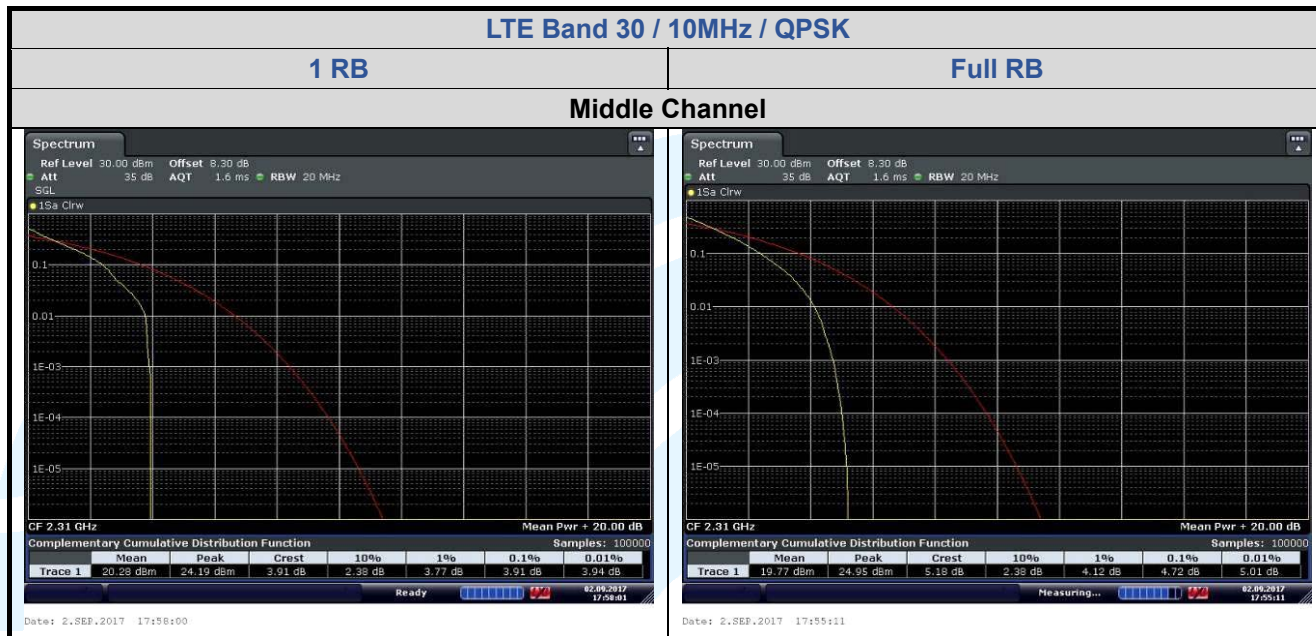


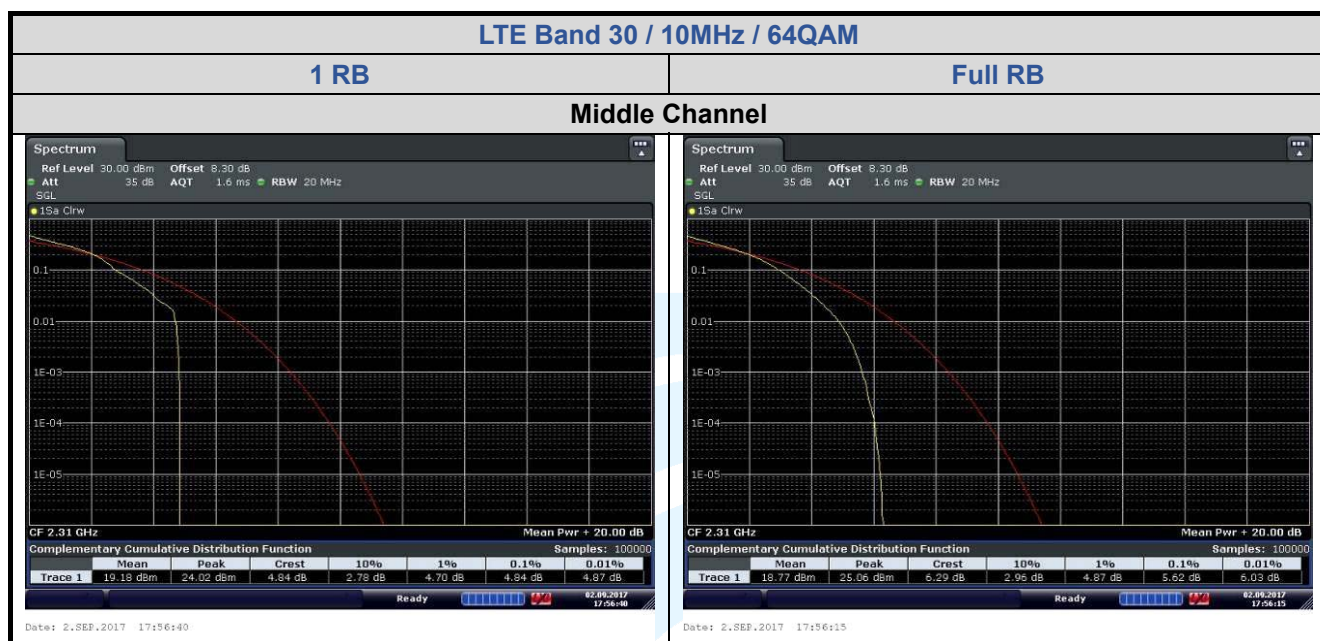




### 5.4.7 LTE Band 30

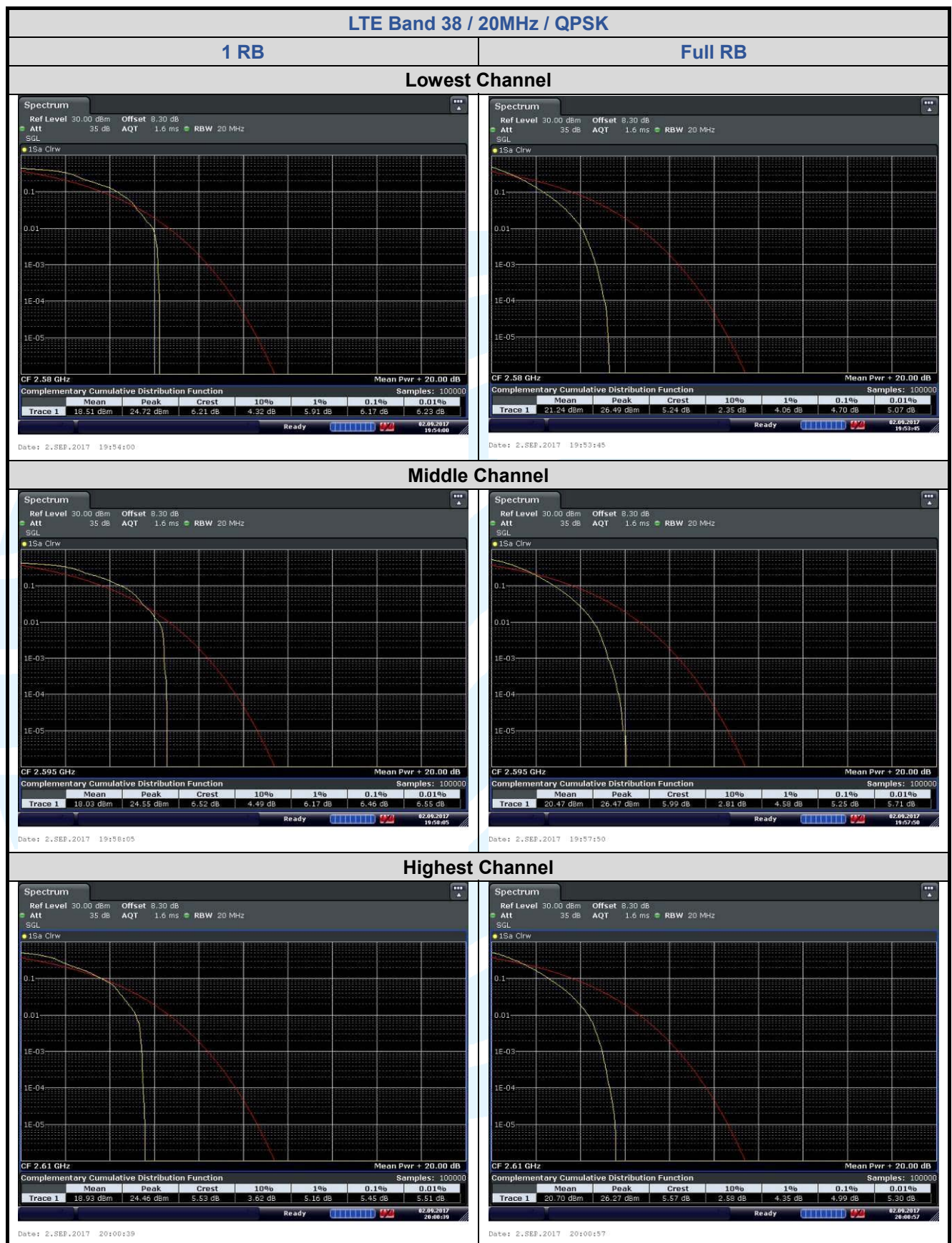
| Peak-to-average ratio (dB) |                  |                           |       |       |            |        |
|----------------------------|------------------|---------------------------|-------|-------|------------|--------|
| Channel                    | RB Configuration | Channel Bandwidth: 10 MHz |       |       | Limit (dB) | Result |
|                            |                  | QPSK                      | 16QAM | 64QAM |            |        |
| Middle                     | 1 RB             | 3.91                      | 5.62  | 4.84  | 13         | Pass   |
|                            | Full RB          | 4.72                      | 4.84  | 5.62  | 13         | Pass   |

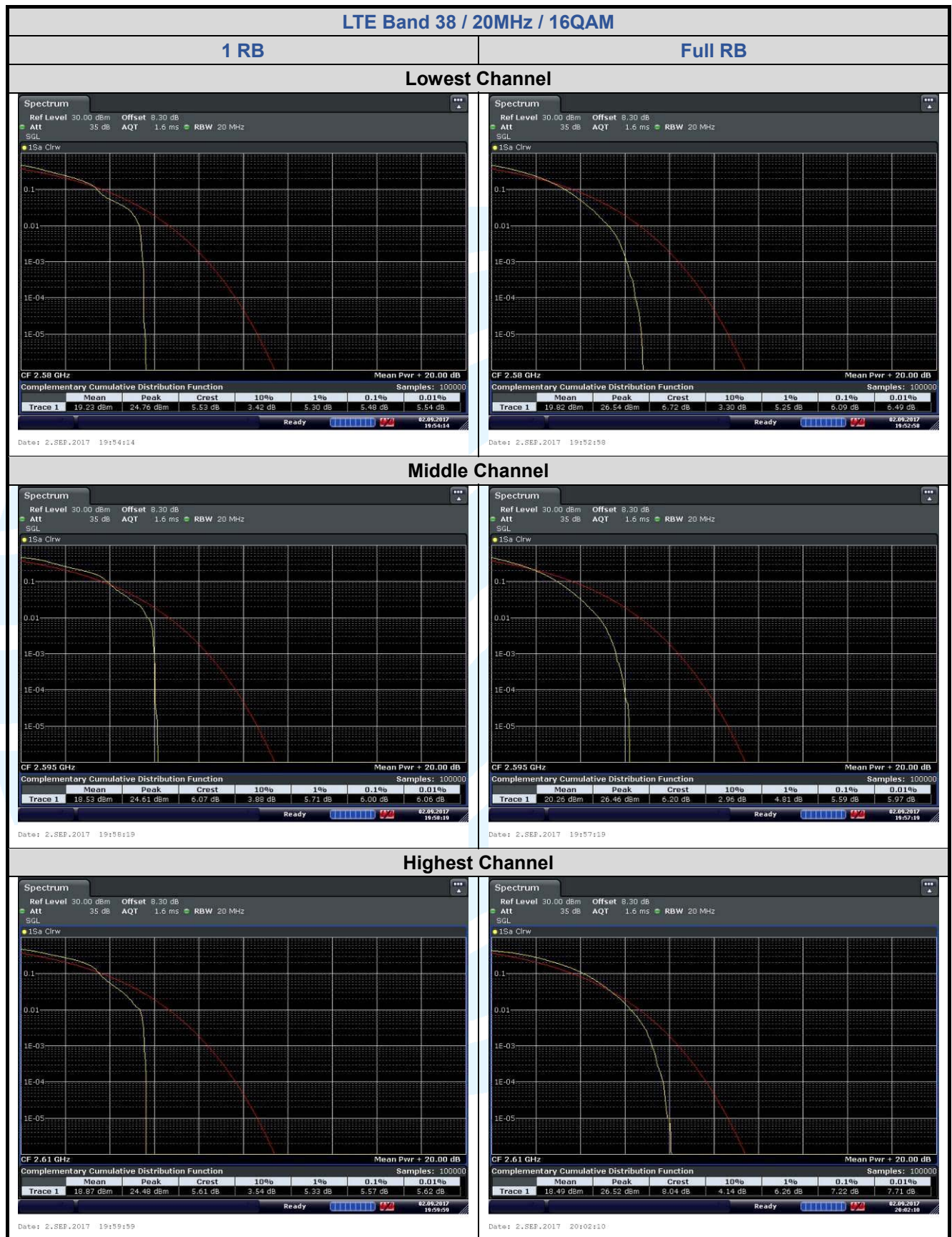


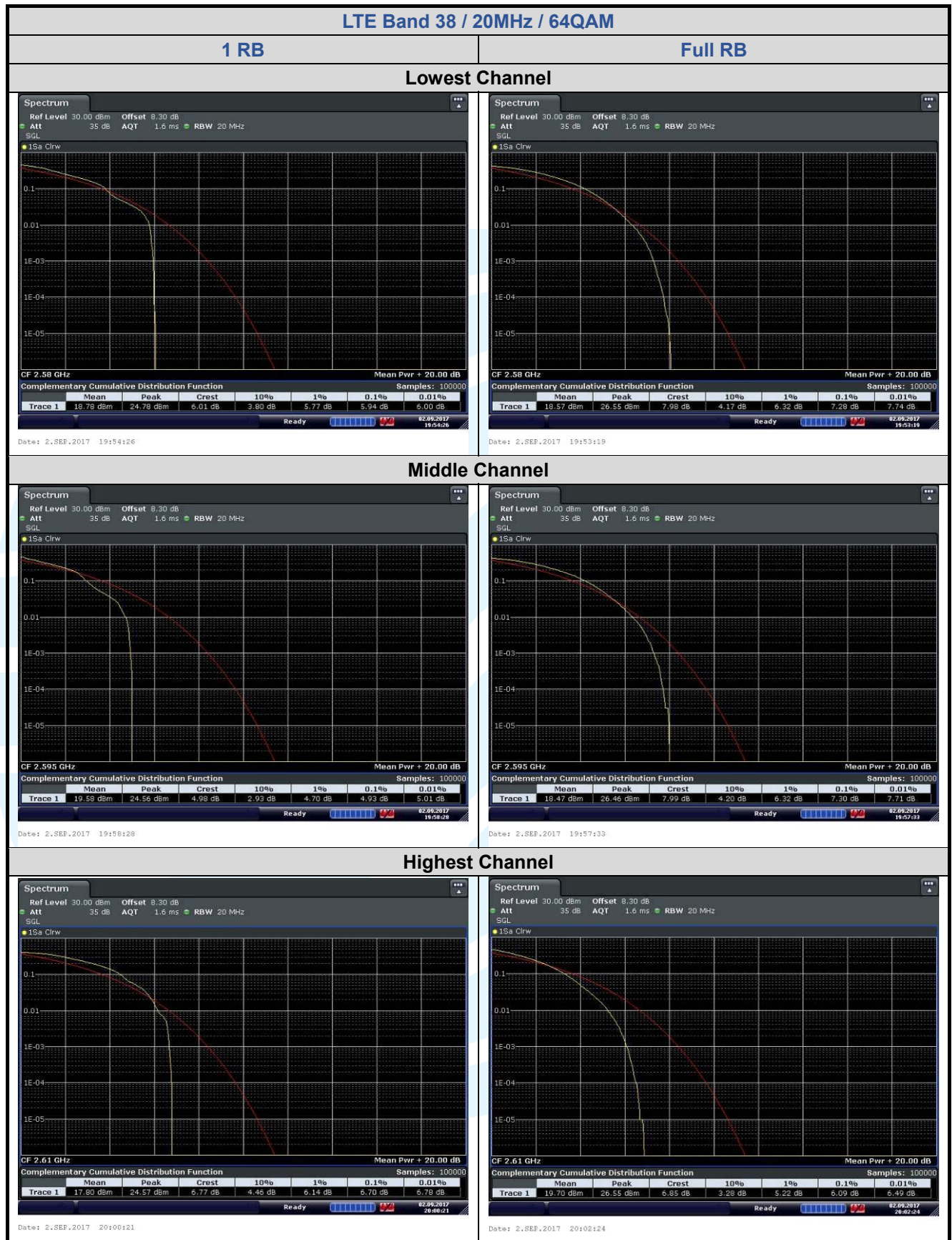


### 5.4.8 LTE Band 38

| Peak-to-average ratio (dB) |                  |                           |       |       |            |        |
|----------------------------|------------------|---------------------------|-------|-------|------------|--------|
| Channel                    | RB Configuration | Channel Bandwidth: 20 MHz |       |       | Limit (dB) | Result |
|                            |                  | QPSK                      | 16QAM | 64QAM |            |        |
| Lowest                     | 1 RB             | 6.17                      | 5.48  | 5.94  | 13         | Pass   |
|                            | Full RB          | 4.70                      | 6.09  | 7.28  | 13         | Pass   |
| Middle                     | 1 RB             | 6.46                      | 6.00  | 4.93  | 13         | Pass   |
|                            | Full RB          | 5.25                      | 5.59  | 7.30  | 13         | Pass   |
| Highest                    | 1 RB             | 5.45                      | 5.57  | 6.70  | 13         | Pass   |
|                            | Full RB          | 4.99                      | 7.22  | 6.09  | 13         | Pass   |

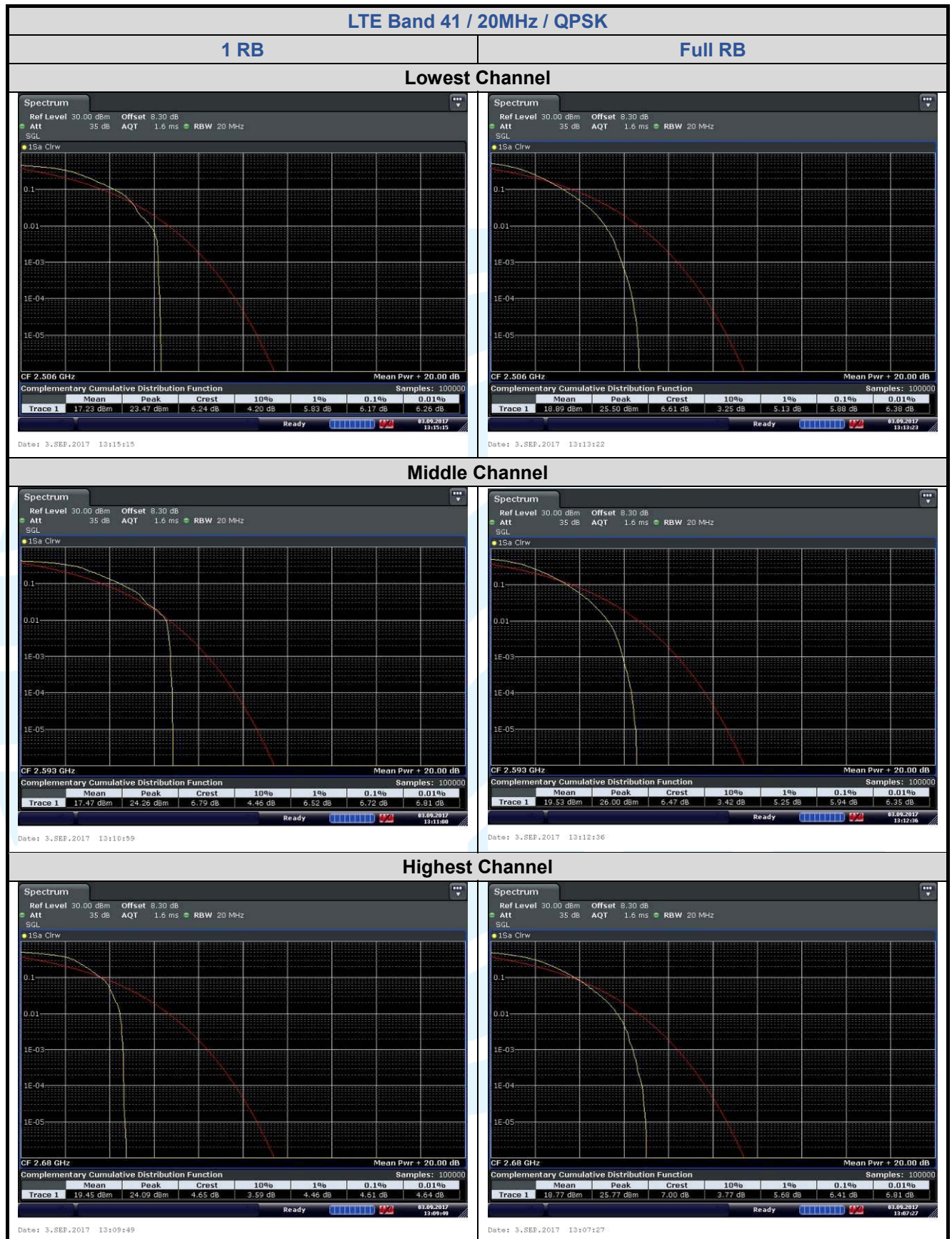


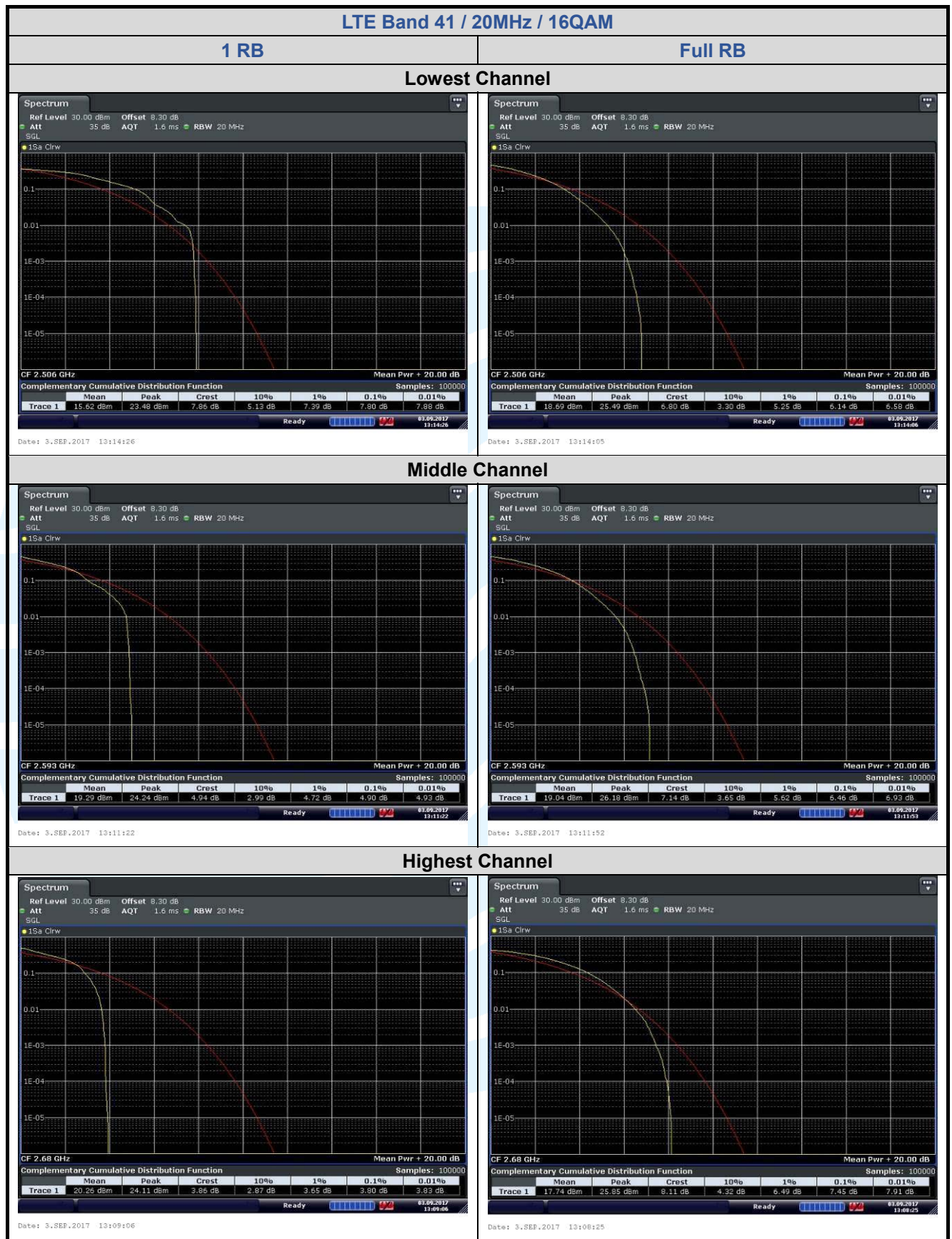


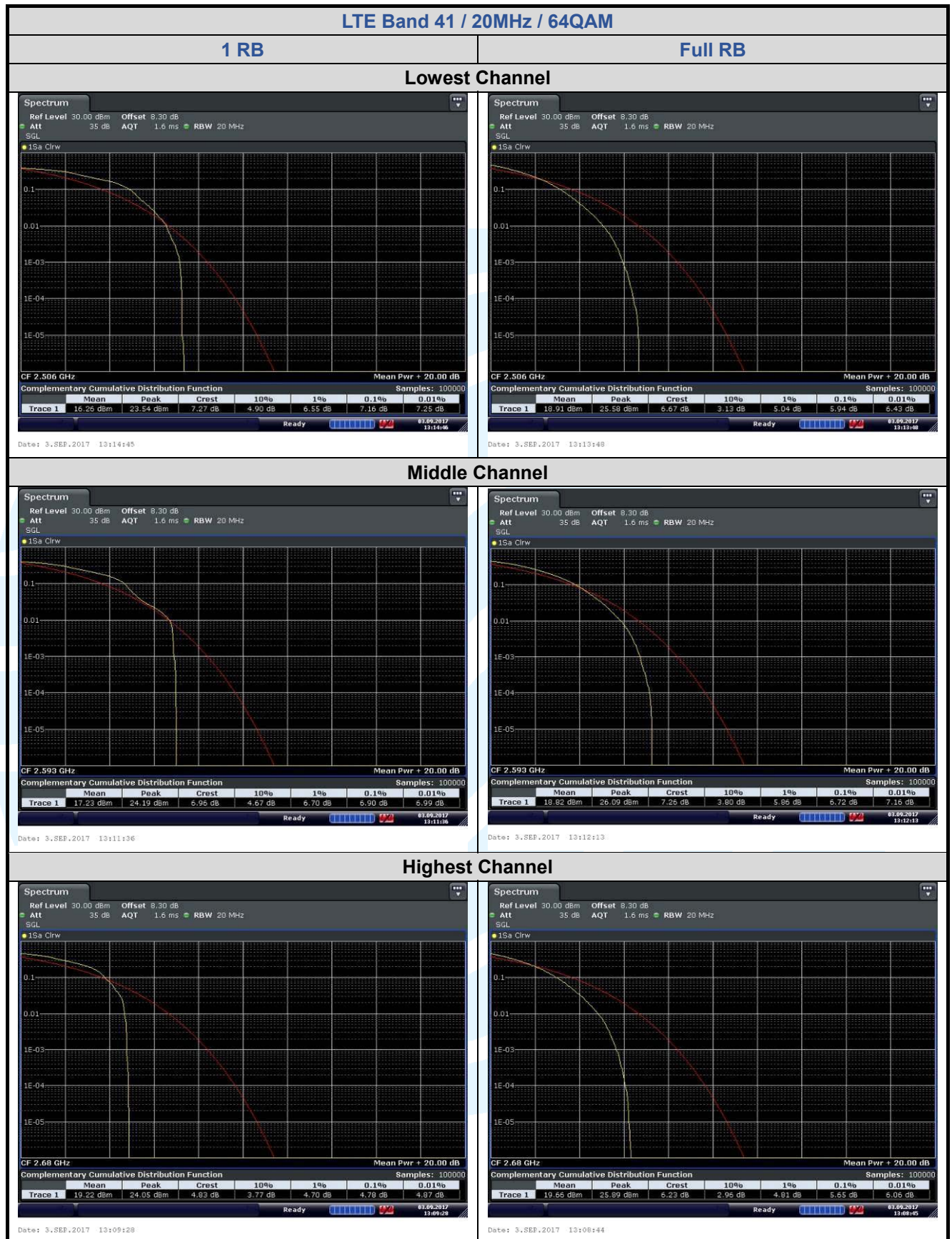


### 5.4.9 LTE Band 41

| Peak-to-average ratio (dB) |                  |                           |       |       |            |        |
|----------------------------|------------------|---------------------------|-------|-------|------------|--------|
| Channel                    | RB Configuration | Channel Bandwidth: 20 MHz |       |       | Limit (dB) | Result |
|                            |                  | QPSK                      | 16QAM | 64QAM |            |        |
| Lowest                     | 1 RB             | 6.17                      | 7.80  | 7.16  | 13         | Pass   |
|                            | Full RB          | 5.88                      | 6.14  | 5.94  | 13         | Pass   |
| Middle                     | 1 RB             | 6.72                      | 4.90  | 6.90  | 13         | Pass   |
|                            | Full RB          | 5.94                      | 6.46  | 6.72  | 13         | Pass   |
| Highest                    | 1 RB             | 4.61                      | 3.80  | 4.78  | 13         | Pass   |
|                            | Full RB          | 6.41                      | 7.45  | 5.65  | 13         | Pass   |







## 5.5 99%&26DB BANDWIDTH

**Test Requirement:** FCC 47 CFR Part 2.1049(h)

**Test Method:** ANSI/TIA/EIA-603-D 2010 & KDB 971168 D01v02r02

**Limit:** No Limit

**Test Procedure:**

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the low, middle and high channel in each band. The 99% and -26dB bandwidths was also measured and recorded.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

**Test Setup:** Refer to section 4.2.2 for details.

**Instruments Used:** Refer to section 3 for details

**Test Mode:** Link mode

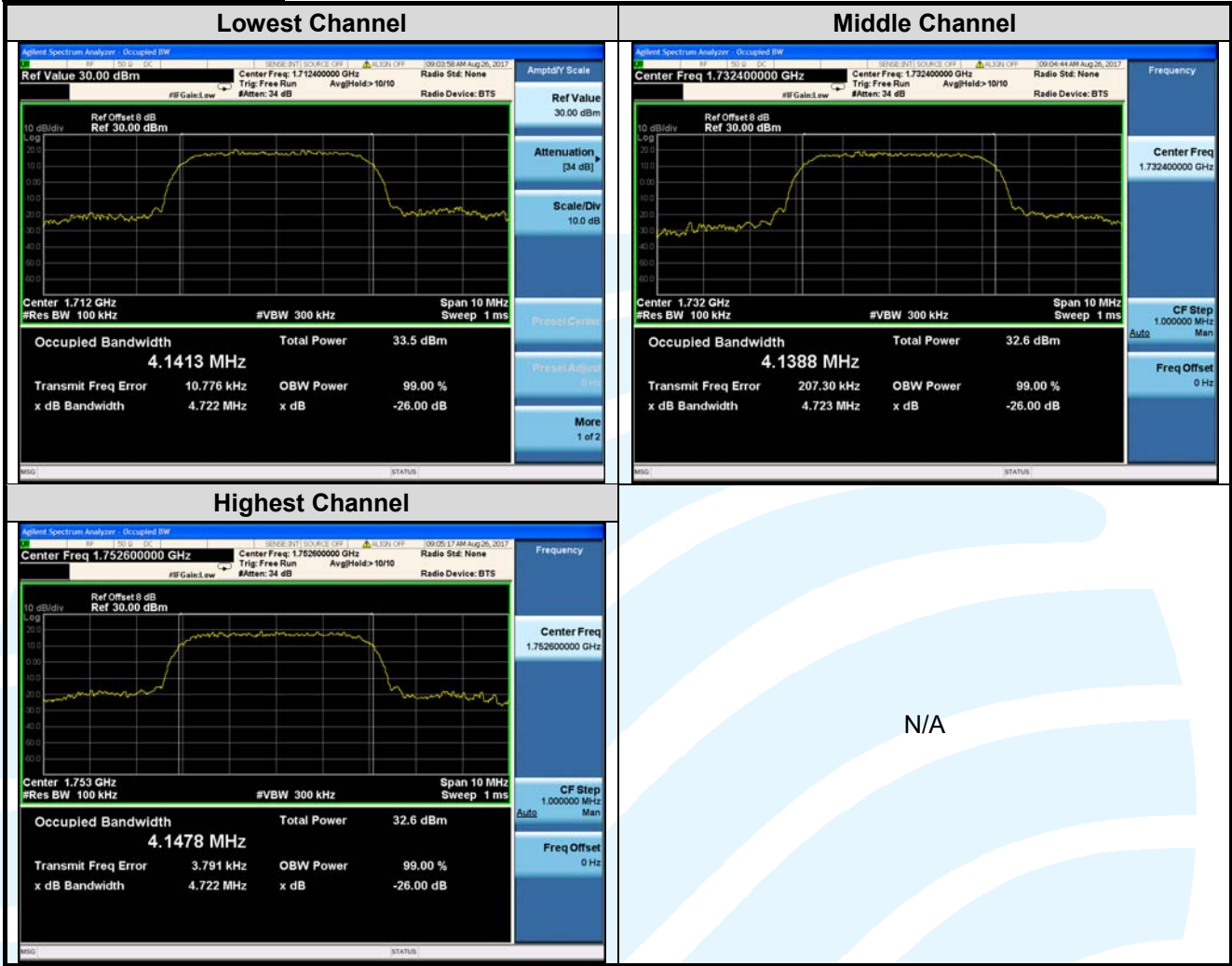
**Test Results:** Pass

**Test Data:** See table below

### 5.5.1 WCDMA Band IV

| 99% & 26 dB Bandwidth |         |                 |                |              |
|-----------------------|---------|-----------------|----------------|--------------|
| Test Mode             | Channel | Frequency (MHz) | 26 dB BW (MHz) | 99% BW (MHz) |
| WCDMA<br>RMC 12.2Kbps | 1312    | 1712.4          | 4.722          | 4.1413       |
|                       | 1412    | 1732.4          | 4.723          | 4.1388       |
|                       | 1513    | 1752.6          | 4.722          | 4.1478       |

The test plot as follows:



### 5.5.2 LTE Band 4

| LTE Band 4                 |                  |        |                |       |       |              |        |        |
|----------------------------|------------------|--------|----------------|-------|-------|--------------|--------|--------|
| Channel                    | RB Configuration |        | 26 dB BW (MHz) |       |       | 99% BW (MHz) |        |        |
|                            | Size             | Offset | QPSK           | 16QAM | 64QAM | QPSK         | 16QAM  | 64QAM  |
| Channel Bandwidth: 1.4 MHz |                  |        |                |       |       |              |        |        |
| Lowest                     | 6                | 0      | 1.239          | 1.243 | 1.244 | 1.0862       | 1.0944 | 1.0949 |
| Middle                     | 6                | 0      | 1.235          | 1.240 | 1.237 | 1.1019       | 1.0922 | 1.0923 |
| Highest                    | 6                | 0      | 1.248          | 1.228 | 1.226 | 1.0917       | 1.0937 | 1.0864 |
| Channel Bandwidth: 3 MHz   |                  |        |                |       |       |              |        |        |
| Lowest                     | 15               | 0      | 2.999          | 3.021 | 3.001 | 2.7034       | 2.6980 | 2.6964 |
| Middle                     | 15               | 0      | 2.996          | 3.011 | 3.011 | 2.7092       | 2.6968 | 2.6986 |
| Highest                    | 15               | 0      | 3.034          | 3.002 | 3.025 | 2.7049       | 2.7079 | 2.7053 |
| Channel Bandwidth: 5 MHz   |                  |        |                |       |       |              |        |        |
| Lowest                     | 25               | 0      | 4.974          | 4.923 | 4.955 | 4.5237       | 4.4980 | 4.4969 |
| Middle                     | 25               | 0      | 4.963          | 4.955 | 4.975 | 4.5041       | 4.5158 | 4.5109 |
| Highest                    | 25               | 0      | 4.947          | 4.955 | 4.990 | 4.4963       | 4.5116 | 4.5268 |
| Channel Bandwidth: 10 MHz  |                  |        |                |       |       |              |        |        |
| Lowest                     | 50               | 0      | 9.798          | 9.804 | 9.804 | 8.9585       | 8.9704 | 8.9851 |
| Middle                     | 50               | 0      | 9.787          | 9.809 | 9.817 | 8.9628       | 8.9803 | 8.9699 |
| Highest                    | 50               | 0      | 9.841          | 9.797 | 9.797 | 8.9741       | 9.0047 | 8.9986 |
| Channel Bandwidth: 15 MHz  |                  |        |                |       |       |              |        |        |
| Lowest                     | 75               | 0      | 14.62          | 14.58 | 14.53 | 13.446       | 13.451 | 13.465 |
| Middle                     | 75               | 0      | 14.57          | 14.63 | 14.68 | 13.440       | 13.471 | 13.479 |
| Highest                    | 75               | 0      | 14.68          | 14.56 | 14.67 | 13.459       | 13.488 | 13.477 |
| Channel Bandwidth: 20 MHz  |                  |        |                |       |       |              |        |        |
| Lowest                     | 100              | 0      | 19.42          | 19.42 | 19.37 | 17.973       | 17.962 | 17.938 |
| Middle                     | 100              | 0      | 19.42          | 19.48 | 19.55 | 17.940       | 17.977 | 17.942 |
| Highest                    | 100              | 0      | 19.51          | 19.46 | 19.45 | 17.979       | 17.996 | 18.056 |