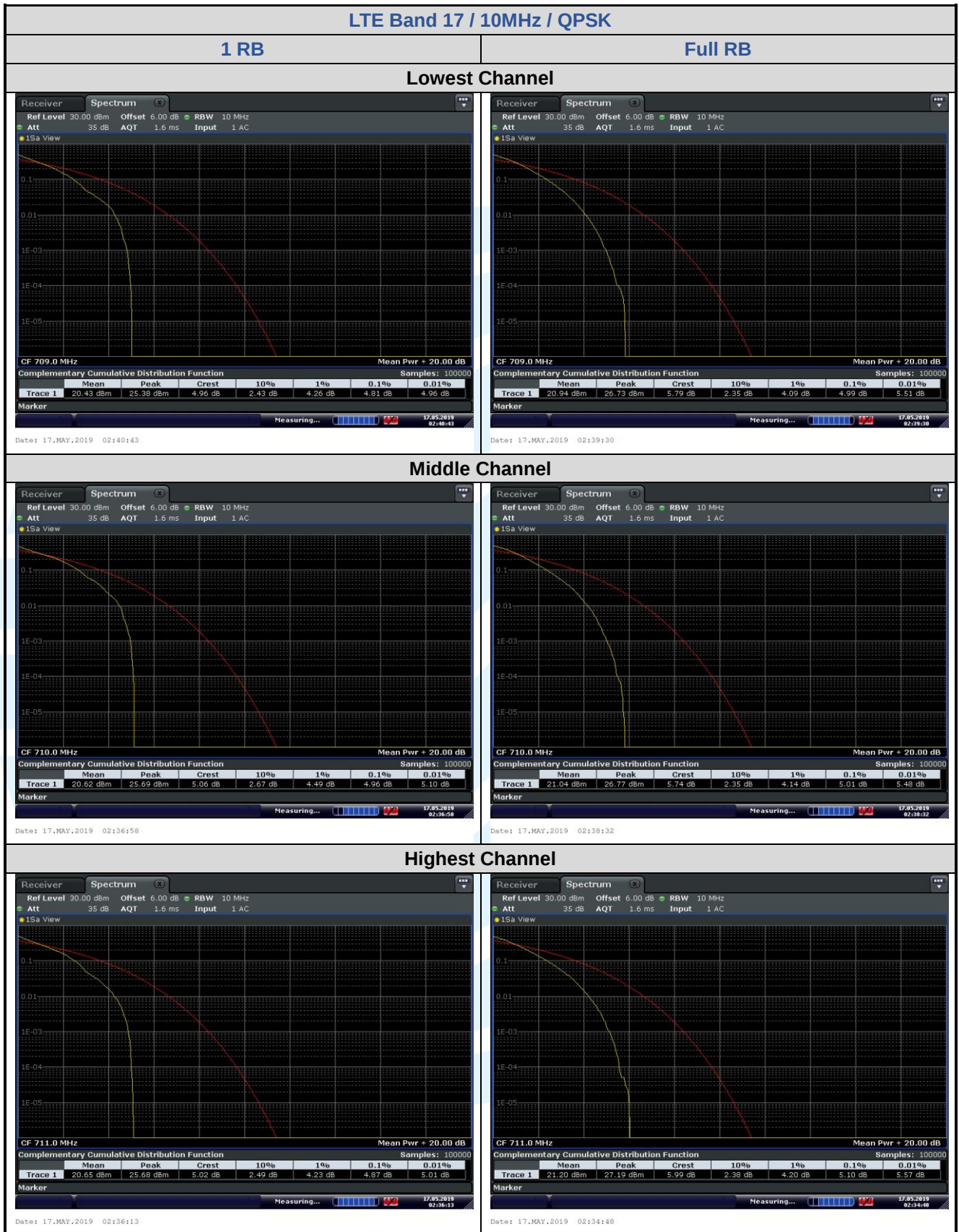
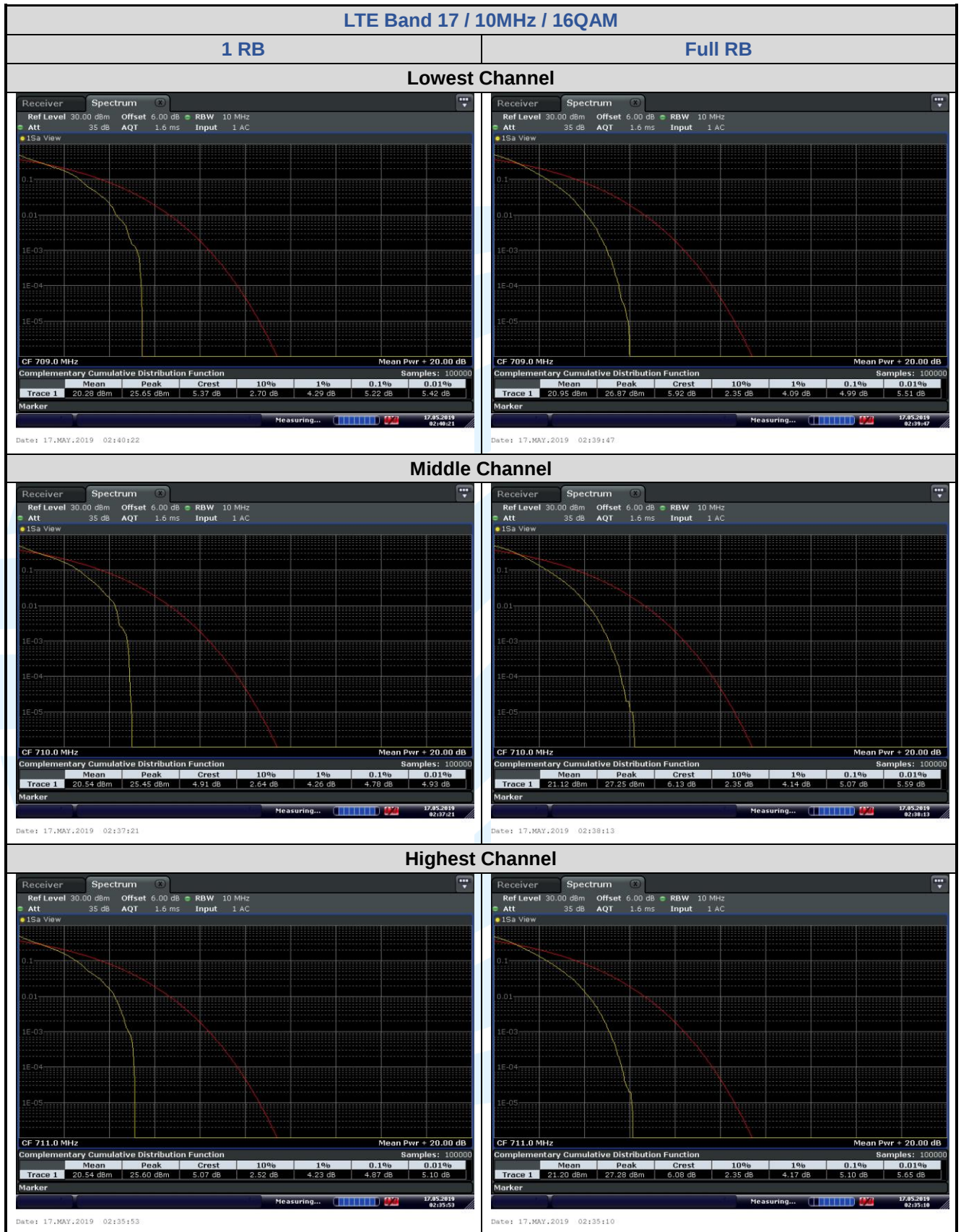






## 5.5 99%&26DB BANDWIDTH

**Test Requirement:** FCC 47 CFR Part 2.1049(h),  
**GSM 850 & WCDMA Band V & LTE Band 5:** FCC 47 CFR Part 22.917(b),  
**GSM 1900 & WCDMA Band II & LTE Band 2:** FCC 47 CFR Part 24.238(b),  
**WCDMA Band IV & LTE Band 4:** FCC 47 CFR Part 27.53(h),  
**LTE Band 12 & Band 17:** FCC 47 CFR Part 27.53(g)  
**LTE Band 7:** FCC 47 CFR Part 27.50(a)

**Test Method:** ANSI C63.26-2015 & KDB 971168 D01v03r01

**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

| 99% & 26 dB Bandwidth |         |                 |                |              |
|-----------------------|---------|-----------------|----------------|--------------|
| Test Mode             | Channel | Frequency (MHz) | 26 dB BW (kHz) | 99% BW (kHz) |
| GSM 850 1Tx-slot      | 128     | 824.2           | 322.3          | 242.70       |
|                       | 190     | 836.6           | 317.1          | 244.66       |
|                       | 251     | 848.8           | 320.2          | 245.93       |
| EDGE 850 1Tx-slot     | 128     | 824.2           | 279.5          | 233.09       |
|                       | 190     | 836.6           | 298.4          | 234.28       |
|                       | 251     | 848.8           | 316.3          | 236.43       |
| GSM 1900 1Tx-slot     | 512     | 1850.2          | 320.5          | 241.95       |
|                       | 661     | 1880.0          | 318.7          | 245.30       |
|                       | 810     | 1909.8          | 318.0          | 244.32       |
| EDGE 1900 1Tx-slot    | 512     | 1850.2          | 300.8          | 240.35       |
|                       | 661     | 1880.0          | 322.6          | 250.48       |
|                       | 810     | 1909.8          | 319.9          | 245.81       |

| 99% & 26 dB Bandwidth         |         |                 |                |              |
|-------------------------------|---------|-----------------|----------------|--------------|
| Test Mode                     | Channel | Frequency (MHz) | 26 dB BW (MHz) | 99% BW (MHz) |
| WCDMA Band II<br>RMC 12.2Kbps | 9262    | 1852.4          | 4.730          | 4.1718       |
|                               | 9400    | 1880.0          | 4.715          | 4.1644       |
|                               | 9538    | 1907.6          | 4.710          | 4.1712       |
| WCDMA Band IV<br>RMC 12.2Kbps | 1312    | 1712.4          | 4.745          | 4.1823       |
|                               | 1412    | 1732.4          | 4.708          | 4.1698       |
|                               | 1513    | 1752.6          | 4.720          | 4.1670       |
| WCDMA Band V<br>RMC 12.2Kbps  | 4132    | 826.4           | 4.700          | 4.1602       |
|                               | 4182    | 836.4           | 4.705          | 4.1688       |
|                               | 4233    | 846.6           | 4.694          | 4.1897       |

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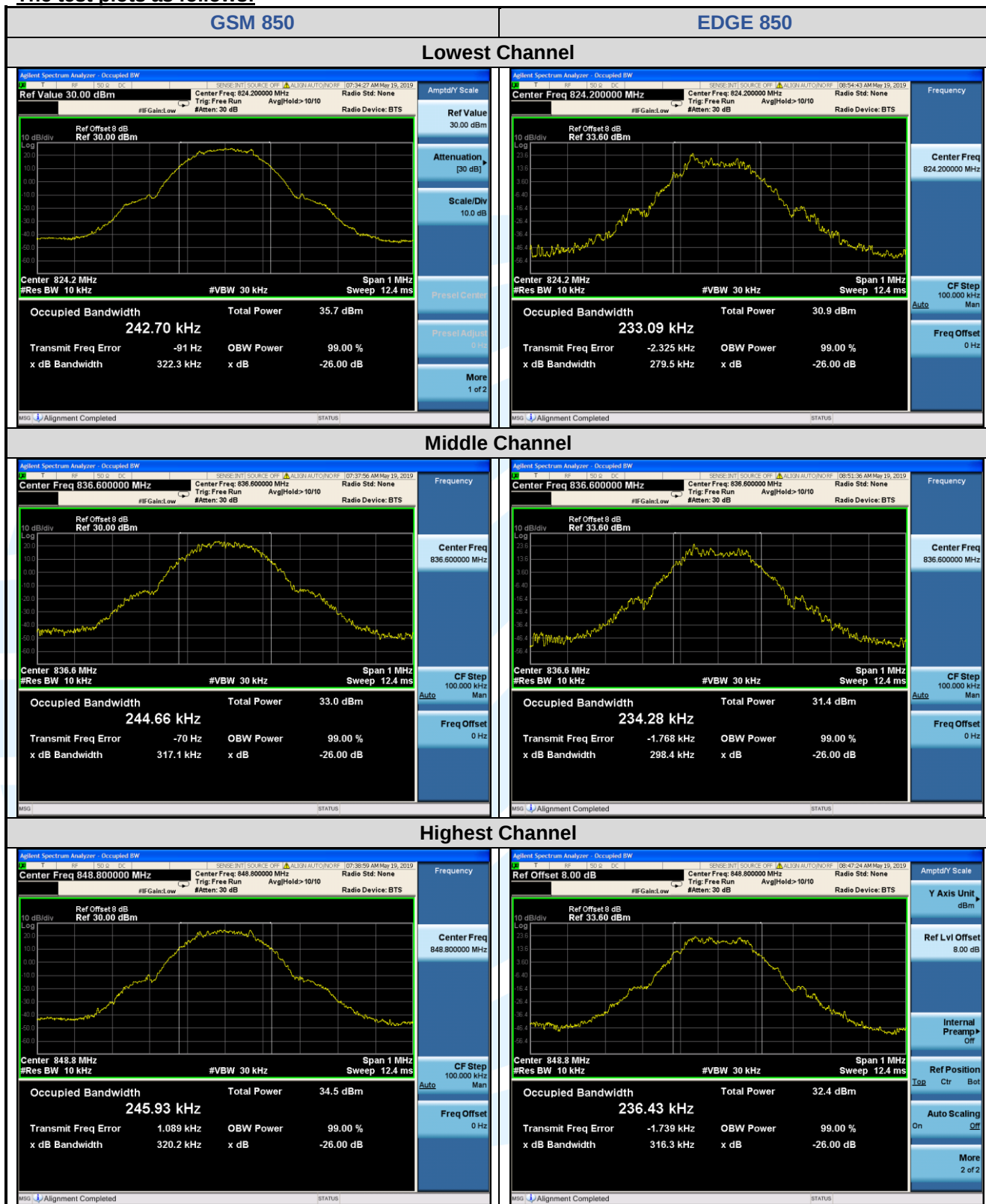
Tel: +86-755-28230888

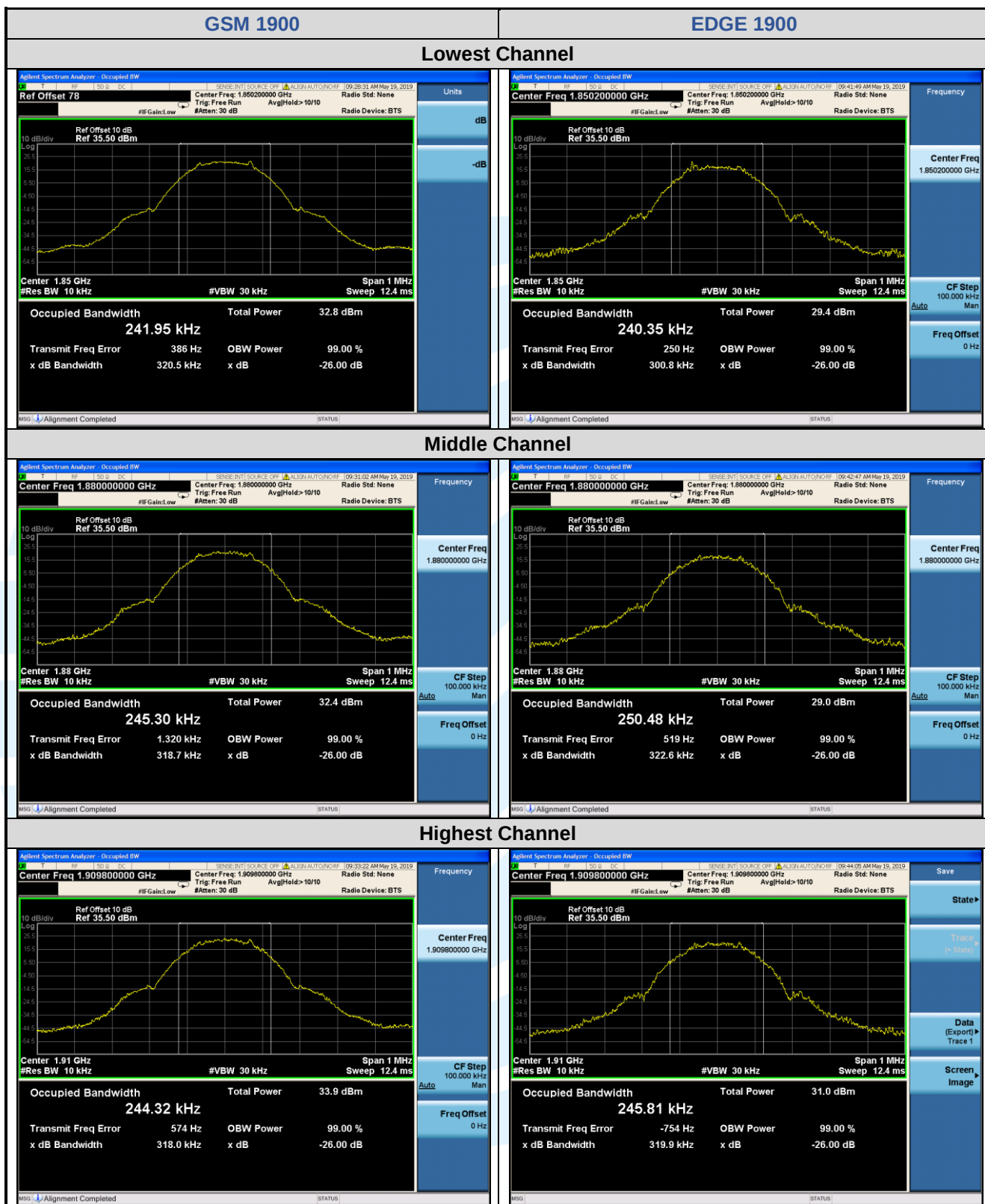
Fax: +86-755-28230886

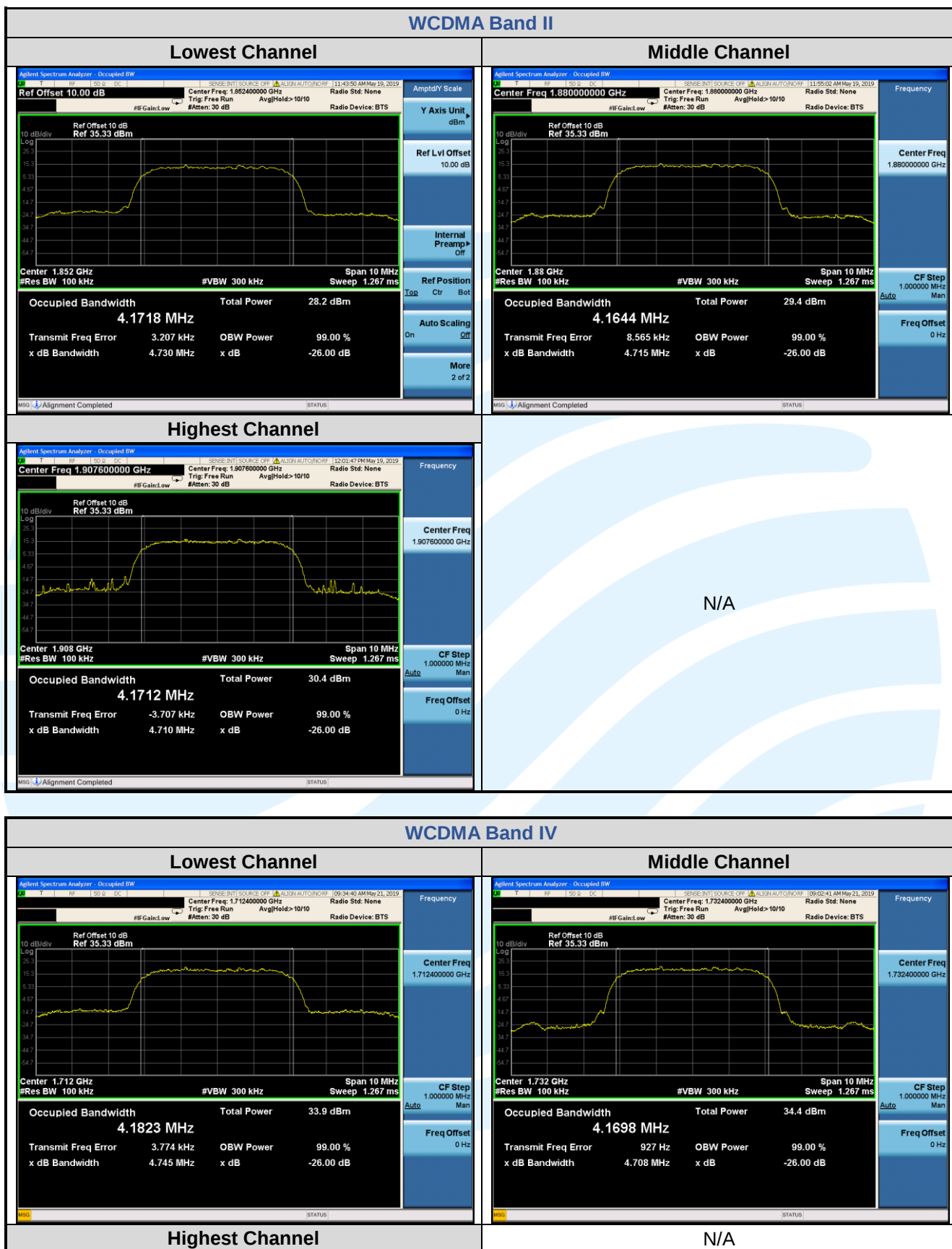
E-mail: info@uttlab.com

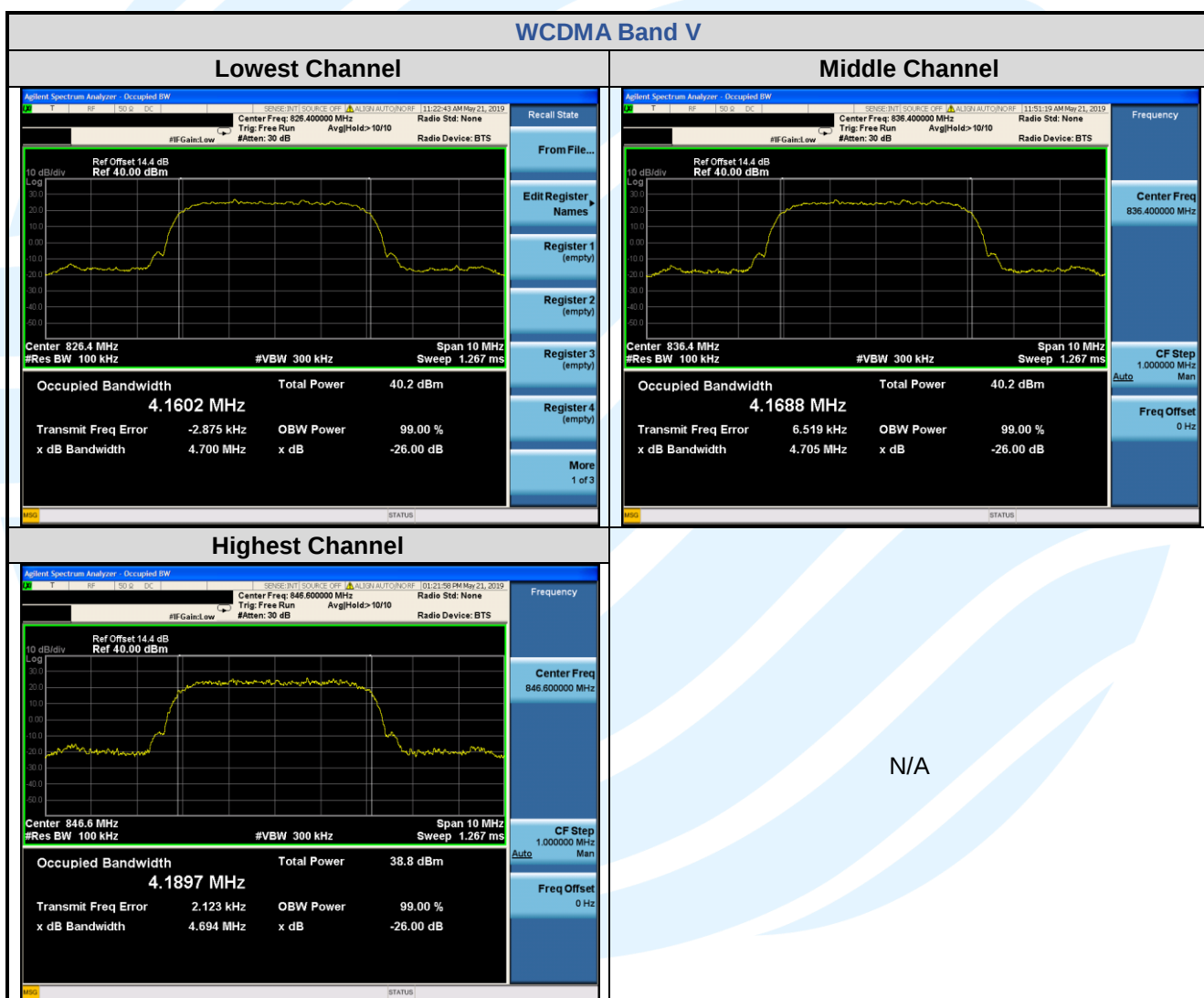
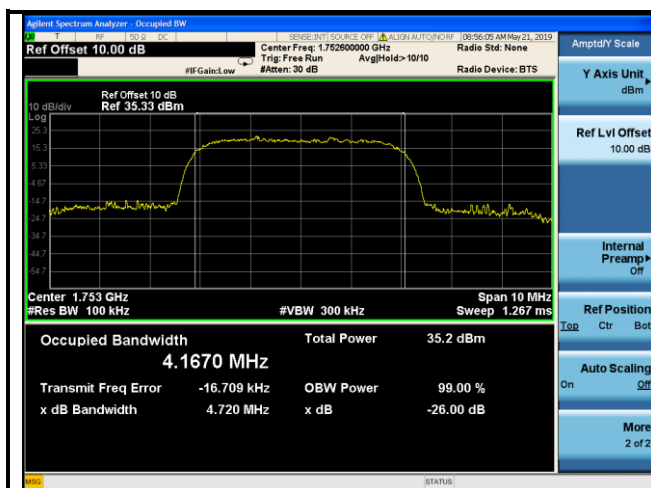
[Http://www.uttlab.com](http://www.uttlab.com)

The test plots as follows:









## Band 2

| LTE Band 2                 |                  |        |                |        |       |              |         |       |
|----------------------------|------------------|--------|----------------|--------|-------|--------------|---------|-------|
| 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      | 1.304          | 1.319  | N/A   | 1.0934       | 1.1000  | N/A   |
| Middle                     | 6                | 0      | 1.281          | 1.281  | N/A   | 1.1053       | 1.1002  | N/A   |
| Highest                    | 6                | 0      | 1.292          | 1.284  | N/A   | 1.0957       | 1.0885  | N/A   |
| Channel Bandwidth: 3 MHz   |                  |        |                |        |       |              |         |       |
| Lowest                     | 15               | 0      | 2.930          | 2.936  | N/A   | 2.6981       | 2.7023  | N/A   |
| Middle                     | 15               | 0      | 2.933          | 2.932  | N/A   | 2.6956       | 2.6951  | N/A   |
| Highest                    | 15               | 0      | 2.918          | 2.937  | N/A   | 2.6938       | 2.6921  | N/A   |
| Channel Bandwidth: 5 MHz   |                  |        |                |        |       |              |         |       |
| Lowest                     | 25               | 0      | 4.949          | 4.874  | N/A   | 4.5202       | 4.5142  | N/A   |
| Middle                     | 25               | 0      | 4.968          | 4.944  | N/A   | 4.5090       | 4.5000  | N/A   |
| Highest                    | 25               | 0      | 4.948          | 4.949  | N/A   | 4.5020       | 4.5011  | N/A   |
| Channel Bandwidth: 10 MHz  |                  |        |                |        |       |              |         |       |
| Lowest                     | 50               | 0      | 9.855          | 10.09  | N/A   | 8.9923       | 8.9981  | N/A   |
| Middle                     | 50               | 0      | 9.799          | 9.771  | N/A   | 8.9867       | 8.9822  | N/A   |
| Highest                    | 50               | 0      | 9.678          | 9.809  | N/A   | 9.0143       | 9.0203  | N/A   |
| Channel Bandwidth: 15 MHz  |                  |        |                |        |       |              |         |       |
| Lowest                     | 75               | 0      | 14.790         | 14.650 | N/A   | 13.4850      | 13.4780 | N/A   |
| Middle                     | 75               | 0      | 14.670         | 14.640 | N/A   | 13.4400      | 13.4430 | N/A   |
| Highest                    | 75               | 0      | 14.770         | 14.720 | N/A   | 13.4880      | 13.4960 | N/A   |
| Channel Bandwidth: 20 MHz  |                  |        |                |        |       |              |         |       |
| Lowest                     | 100              | 0      | 19.600         | 19.480 | N/A   | 17.9880      | 17.9650 | N/A   |
| Middle                     | 100              | 0      | 19.380         | 19.380 | N/A   | 17.9890      | 17.9860 | N/A   |
| Highest                    | 100              | 0      | 22.870         | 22.390 | N/A   | 18.0470      | 18.0280 | N/A   |

