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# Appendix F

**Product Name:** Siyata SD7

**Model:** SD7



## 1. Effective (Isotropic) Radiated Power Output Data

### 1.1 Test Result

| Test Band: 5 1.4MHz Bandwidth |                                                                                                                                               |        |                       |       |       |              |       |          |       |       |             |         |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------|-------|-------|--------------|-------|----------|-------|-------|-------------|---------|
| Modulation                    | RB Allocation                                                                                                                                 |        | Conducted Power (dBm) |       |       | Antenna gain |       | ERP(dBm) |       |       | Limit (dBm) | Verdict |
|                               | Size                                                                                                                                          | Offset | LCH                   | MCH   | HCH   | (dBd)        | (dBi) | LCH      | MCH   | HCH   |             |         |
| QPSK                          | 1                                                                                                                                             | 0      | 23.38                 | 23.53 | 24.04 | -2.50        | -0.35 | 20.88    | 21.03 | 21.54 | 38.45       | PASS    |
|                               |                                                                                                                                               | 2      | 23.40                 | 23.61 | 24.03 | -2.50        | -0.35 | 20.90    | 21.11 | 21.53 | 38.45       | PASS    |
|                               |                                                                                                                                               | 5      | 23.30                 | 23.57 | 23.93 | -2.50        | -0.35 | 20.80    | 21.07 | 21.43 | 38.45       | PASS    |
|                               | 3                                                                                                                                             | 0      | 23.50                 | 23.61 | 23.95 | -2.50        | -0.35 | 21.00    | 21.11 | 21.45 | 38.45       | PASS    |
|                               |                                                                                                                                               | 2      | 23.51                 | 23.68 | 24.02 | -2.50        | -0.35 | 21.01    | 21.18 | 21.52 | 38.45       | PASS    |
|                               |                                                                                                                                               | 3      | 23.43                 | 23.68 | 23.92 | -2.50        | -0.35 | 20.93    | 21.18 | 21.42 | 38.45       | PASS    |
|                               | 6                                                                                                                                             | 0      | 22.37                 | 22.56 | 23.04 | -2.50        | -0.35 | 19.87    | 20.06 | 20.54 | 38.45       | PASS    |
| 22.54                         | 22.63                                                                                                                                         |        | 23.25                 | -2.50 | -0.35 | 20.04        | 20.13 | 20.75    | 38.45 | PASS  |             |         |
| 16QAM                         | 1                                                                                                                                             | 2      | 22.56                 | 22.74 | 23.31 | -2.50        | -0.35 | 20.06    | 20.24 | 20.81 | 38.45       | PASS    |
|                               |                                                                                                                                               | 5      | 22.44                 | 22.71 | 23.21 | -2.50        | -0.35 | 19.94    | 20.21 | 20.71 | 38.45       | PASS    |
|                               |                                                                                                                                               | 0      | 22.75                 | 22.71 | 23.07 | -2.50        | -0.35 | 20.25    | 20.21 | 20.57 | 38.45       | PASS    |
|                               | 3                                                                                                                                             | 2      | 22.80                 | 22.82 | 23.12 | -2.50        | -0.35 | 20.30    | 20.32 | 20.62 | 38.45       | PASS    |
|                               |                                                                                                                                               | 3      | 22.77                 | 22.78 | 23.08 | -2.50        | -0.35 | 20.27    | 20.28 | 20.58 | 38.45       | PASS    |
|                               |                                                                                                                                               | 6      | 0                     | 21.55 | 21.63 | 22.16        | -2.50 | -0.35    | 19.05 | 19.13 | 19.66       | 38.45   |
|                               | Note:<br>1) dBd = dBi - 2.15<br>2) EIRP = Conducted output power + Antenna gain (dBi)<br>3) ERP = Conducted output power + Antenna gain (dBd) |        |                       |       |       |              |       |          |       |       |             |         |

| Test Band: 5 3MHz Bandwidth |                                                                                                                                               |        |                       |       |       |              |       |          |       |       |             |         |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------|-------|-------|--------------|-------|----------|-------|-------|-------------|---------|
| Modulation                  | RB Allocation                                                                                                                                 |        | Conducted Power (dBm) |       |       | Antenna gain |       | ERP(dBm) |       |       | Limit (dBm) | Verdict |
|                             | Size                                                                                                                                          | Offset | LCH                   | MCH   | HCH   | (dBd)        | (dBi) | LCH      | MCH   | HCH   |             |         |
| QPSK                        | 1                                                                                                                                             | 0      | 23.56                 | 23.62 | 24.43 | -2.50        | -0.35 | 21.06    | 21.12 | 21.93 | 38.45       | PASS    |
|                             |                                                                                                                                               | 7      | 23.51                 | 23.77 | 24.37 | -2.50        | -0.35 | 21.01    | 21.27 | 21.87 | 38.45       | PASS    |
|                             |                                                                                                                                               | 14     | 23.33                 | 23.78 | 24.16 | -2.50        | -0.35 | 20.83    | 21.28 | 21.66 | 38.45       | PASS    |
|                             | 8                                                                                                                                             | 0      | 22.47                 | 22.61 | 23.32 | -2.50        | -0.35 | 19.97    | 20.11 | 20.82 | 38.45       | PASS    |
|                             |                                                                                                                                               | 4      | 22.44                 | 22.72 | 23.29 | -2.50        | -0.35 | 19.94    | 20.22 | 20.79 | 38.45       | PASS    |
|                             |                                                                                                                                               | 7      | 22.36                 | 22.70 | 23.20 | -2.50        | -0.35 | 19.86    | 20.20 | 20.70 | 38.45       | PASS    |
|                             | 15                                                                                                                                            | 0      | 22.46                 | 22.69 | 23.30 | -2.50        | -0.35 | 19.96    | 20.19 | 20.80 | 38.45       | PASS    |
| 23.24                       | 22.68                                                                                                                                         |        | 23.46                 | -2.50 | -0.35 | 20.74        | 20.18 | 20.96    | 38.45 | PASS  |             |         |
| 16QAM                       | 1                                                                                                                                             | 7      | 23.17                 | 22.84 | 23.46 | -2.50        | -0.35 | 20.67    | 20.34 | 20.96 | 38.45       | PASS    |
|                             |                                                                                                                                               | 14     | 23.00                 | 22.83 | 23.28 | -2.50        | -0.35 | 20.50    | 20.33 | 20.78 | 38.45       | PASS    |
|                             |                                                                                                                                               | 0      | 21.77                 | 21.78 | 22.30 | -2.50        | -0.35 | 19.27    | 19.28 | 19.80 | 38.45       | PASS    |
|                             | 8                                                                                                                                             | 4      | 21.73                 | 21.87 | 22.28 | -2.50        | -0.35 | 19.23    | 19.37 | 19.78 | 38.45       | PASS    |
|                             |                                                                                                                                               | 7      | 21.65                 | 21.88 | 22.20 | -2.50        | -0.35 | 19.15    | 19.38 | 19.70 | 38.45       | PASS    |
|                             |                                                                                                                                               | 15     | 0                     | 21.68 | 21.82 | 22.25        | -2.50 | -0.35    | 19.18 | 19.32 | 19.75       | 38.45   |
|                             | Note:<br>1) dBd = dBi - 2.15<br>2) EIRP = Conducted output power + Antenna gain (dBi)<br>3) ERP = Conducted output power + Antenna gain (dBd) |        |                       |       |       |              |       |          |       |       |             |         |

| Test Band: 5 5MHz Bandwidth |               |        |                       |       |       |              |       |          |       |       |             |         |
|-----------------------------|---------------|--------|-----------------------|-------|-------|--------------|-------|----------|-------|-------|-------------|---------|
| Modulation                  | RB Allocation |        | Conducted Power (dBm) |       |       | Antenna gain |       | ERP(dBm) |       |       | Limit (dBm) | Verdict |
|                             | Size          | Offset | LCH                   | MCH   | HCH   | (dBd)        | (dBi) | LCH      | MCH   | HCH   |             |         |
| QPSK                        | 1             | 0      | 23.56                 | 23.54 | 24.41 | -2.50        | -0.35 | 21.06    | 21.04 | 21.91 | 38.45       | PASS    |
|                             |               | 13     | 23.43                 | 23.73 | 24.42 | -2.50        | -0.35 | 20.93    | 21.23 | 21.92 | 38.45       | PASS    |



|       |                                                                                                                                               |    |       |       |       |       |       |       |       |       |       |      |  |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|--|
|       | 12                                                                                                                                            | 24 | 23.25 | 23.85 | 24.19 | -2.50 | -0.35 | 20.75 | 21.35 | 21.69 | 38.45 | PASS |  |
|       |                                                                                                                                               | 0  | 22.53 | 22.62 | 23.39 | -2.50 | -0.35 | 20.03 | 20.12 | 20.89 | 38.45 | PASS |  |
|       |                                                                                                                                               | 6  | 22.47 | 22.71 | 23.37 | -2.50 | -0.35 | 19.97 | 20.21 | 20.87 | 38.45 | PASS |  |
|       |                                                                                                                                               | 13 | 22.34 | 22.79 | 23.26 | -2.50 | -0.35 | 19.84 | 20.29 | 20.76 | 38.45 | PASS |  |
| 16QAM | 25                                                                                                                                            | 0  | 22.47 | 22.71 | 23.32 | -2.50 | -0.35 | 19.97 | 20.21 | 20.82 | 38.45 | PASS |  |
|       | 1                                                                                                                                             |    | 22.52 | 22.72 | 23.60 | -2.50 | -0.35 | 20.02 | 20.22 | 21.10 | 38.45 | PASS |  |
|       |                                                                                                                                               | 13 | 22.43 | 22.92 | 23.60 | -2.50 | -0.35 | 19.93 | 20.42 | 21.10 | 38.45 | PASS |  |
|       |                                                                                                                                               | 24 | 22.27 | 23.02 | 23.37 | -2.50 | -0.35 | 19.77 | 20.52 | 20.87 | 38.45 | PASS |  |
|       | 12                                                                                                                                            | 0  | 21.67 | 21.70 | 22.44 | -2.50 | -0.35 | 19.17 | 19.20 | 19.94 | 38.45 | PASS |  |
|       |                                                                                                                                               | 6  | 21.57 | 21.81 | 22.42 | -2.50 | -0.35 | 19.07 | 19.31 | 19.92 | 38.45 | PASS |  |
|       |                                                                                                                                               | 13 | 21.44 | 21.88 | 22.32 | -2.50 | -0.35 | 18.94 | 19.38 | 19.82 | 38.45 | PASS |  |
|       | 25                                                                                                                                            | 0  | 21.61 | 21.83 | 22.33 | -2.50 | -0.35 | 19.11 | 19.33 | 19.83 | 38.45 | PASS |  |
|       | Note:<br>1) dBd = dBi - 2.15<br>2) EIRP = Conducted output power + Antenna gain (dBi)<br>3) ERP = Conducted output power + Antenna gain (dBd) |    |       |       |       |       |       |       |       |       |       |      |  |

| Test Band: 5 10MHz Bandwidth |               |        |                       |       |       |              |       |          |       |       |             |         |
|------------------------------|---------------|--------|-----------------------|-------|-------|--------------|-------|----------|-------|-------|-------------|---------|
| Modulation                   | RB Allocation |        | Conducted Power (dBm) |       |       | Antenna gain |       | ERP(dBm) |       |       | Limit (dBm) | Verdict |
|                              | Size          | Offset | LCH                   | MCH   | HCH   | (dBd)        | (dBi) | LCH      | MCH   | HCH   |             |         |
| QPSK                         | 1             | 0      | 23.53                 | 23.49 | 23.99 | -2.50        | -0.35 | 21.03    | 20.99 | 21.49 | 38.45       | PASS    |
|                              |               | 25     | 23.25                 | 23.70 | 24.35 | -2.50        | -0.35 | 20.75    | 21.20 | 21.85 | 38.45       | PASS    |
|                              |               | 49     | 23.38                 | 23.97 | 24.13 | -2.50        | -0.35 | 20.88    | 21.47 | 21.63 | 38.45       | PASS    |
|                              | 25            | 0      | 22.46                 | 22.57 | 23.19 | -2.50        | -0.35 | 19.96    | 20.07 | 20.69 | 38.45       | PASS    |
|                              |               | 13     | 22.47                 | 22.77 | 23.37 | -2.50        | -0.35 | 19.97    | 20.27 | 20.87 | 38.45       | PASS    |
|                              |               | 25     | 22.46                 | 22.85 | 23.35 | -2.50        | -0.35 | 19.96    | 20.35 | 20.85 | 38.45       | PASS    |
|                              | 50            | 0      | 22.54                 | 22.76 | 23.19 | -2.50        | -0.35 | 20.04    | 20.26 | 20.69 | 38.45       | PASS    |
|                              |               |        | 23.23                 | 22.58 | 23.25 | -2.50        | -0.35 | 20.73    | 20.08 | 20.75 | 38.45       | PASS    |
| 16QAM                        | 1             | 25     | 22.92                 | 22.79 | 23.53 | -2.50        | -0.35 | 20.42    | 20.29 | 21.03 | 38.45       | PASS    |
|                              |               | 49     | 22.97                 | 23.10 | 23.29 | -2.50        | -0.35 | 20.47    | 20.60 | 20.79 | 38.45       | PASS    |
|                              |               | 0      | 21.65                 | 21.74 | 22.27 | -2.50        | -0.35 | 19.15    | 19.24 | 19.77 | 38.45       | PASS    |
|                              | 25            | 13     | 21.63                 | 21.93 | 22.42 | -2.50        | -0.35 | 19.13    | 19.43 | 19.92 | 38.45       | PASS    |
|                              |               | 25     | 21.58                 | 22.06 | 22.33 | -2.50        | -0.35 | 19.08    | 19.56 | 19.83 | 38.45       | PASS    |
|                              | 50            | 0      | 21.60                 | 21.81 | 22.26 | -2.50        | -0.35 | 19.10    | 19.31 | 19.76 | 38.45       | PASS    |
|                              |               |        | 21.60                 | 21.81 | 22.26 | -2.50        | -0.35 | 19.10    | 19.31 | 19.76 | 38.45       | PASS    |

Note:  
 1) dBd = dBi - 2.15  
 2) EIRP = Conducted output power + Antenna gain (dBi)  
 3) ERP = Conducted output power + Antenna gain (dBd)



## 2. Frequency stability

### 2.1 Test Result

| Test Band: 5 1.4MHz Bandwidth (Frequency Error VS. Voltage) |               |        |            |            |                  |             |             |                       |         |         |             |         |
|-------------------------------------------------------------|---------------|--------|------------|------------|------------------|-------------|-------------|-----------------------|---------|---------|-------------|---------|
| Test Mode                                                   | RB Allocation |        | Test Temp. | Test Volt. | Freq. Error (Hz) |             |             | Freq. vs. rated (ppm) |         |         | Limit (ppm) | Verdict |
|                                                             | Size          | Offset |            |            | LCH              | MCH         | HCH         | LCH                   | MCH     | HCH     |             |         |
| QPSK                                                        | 6             | 0      | NT         | LV         | -4.906<br>7      | -2.131<br>5 | 14.31<br>94 | -0.0059               | -0.0025 | 0.0169  | 2.50        | PASS    |
|                                                             |               |        |            | NV         | -7.181<br>2      | -1.702<br>3 | 20.15<br>59 | -0.0087               | -0.0020 | 0.0238  | 2.50        | PASS    |
|                                                             |               |        |            | HV         | -7.381<br>4      | -1.673<br>7 | 20.55<br>65 | -0.0090               | -0.0020 | 0.0242  | 2.50        | PASS    |
| 16QAM                                                       | 6             | 0      | NT         | LV         | -7.510<br>2      | 3.647<br>8  | 6.094<br>0  | -0.0091               | 0.0044  | -0.0072 | 2.50        | PASS    |
|                                                             |               |        |            | NV         | -5.121<br>2      | 3.876<br>7  | 8.010<br>9  | -0.0062               | 0.0046  | -0.0094 | 2.50        | PASS    |
|                                                             |               |        |            | HV         | -8.769<br>0      | 0.557<br>9  | 8.769<br>0  | -0.0106               | -0.0007 | -0.0103 | 2.50        | PASS    |

| Test Band: 5 1.4MHz Bandwidth (Frequency Error VS. Temperature) |               |        |            |            |                  |            |             |                       |         |        |             |         |
|-----------------------------------------------------------------|---------------|--------|------------|------------|------------------|------------|-------------|-----------------------|---------|--------|-------------|---------|
| Test Mode                                                       | RB Allocation |        | Test Temp. | Test Volt. | Freq. Error (Hz) |            |             | Freq. vs. rated (ppm) |         |        | Limit (ppm) | Verdict |
|                                                                 | Size          | Offset |            |            | LCH              | MCH        | HCH         | LCH                   | MCH     | HCH    |             |         |
| QPSK                                                            | 6             | 0      | NV         | -30.00     | -7.638<br>9      | 0.543<br>6 | 21.24<br>31 | -0.0093               | 0.0006  | 0.0250 | 2.50        | PASS    |
|                                                                 |               |        |            | -20.00     | -4.720<br>7      | 2.732<br>3 | 18.63<br>96 | -0.0057               | -0.0033 | 0.0220 | 2.50        | PASS    |
|                                                                 |               |        |            | -10.00     | -7.753<br>4      | 5.707<br>7 | 15.96<br>45 | -0.0094               | -0.0068 | 0.0188 | 2.50        | PASS    |
|                                                                 |               |        |            | 0.00       | -4.963<br>9      | 5.078<br>3 | 11.52<br>99 | -0.0060               | -0.0061 | 0.0136 | 2.50        | PASS    |
|                                                                 |               |        |            | 10.00      | -3.619<br>2      | 0.987<br>1 | 7.681<br>8  | -0.0044               | -0.0012 | 0.0091 | 2.50        | PASS    |
|                                                                 |               |        |            | 20.00      | -1.831<br>1      | 4.692<br>1 | 9.627<br>3  | -0.0022               | -0.0056 | 0.0113 | 2.50        | PASS    |
|                                                                 |               |        |            | 30.00      | -6.995<br>2      | 0.214<br>6 | 5.865<br>1  | -0.0085               | -0.0003 | 0.0069 | 2.50        | PASS    |
|                                                                 |               |        |            | 40.00      | -3.705<br>0      | 4.334<br>4 | 5.121<br>2  | -0.0045               | -0.0052 | 0.0060 | 2.50        | PASS    |
|                                                                 |               |        |            | 50.00      | -4.606           | 0.042<br>9 | 4.234<br>3  | -0.0056               | 0.0001  | 0.0050 | 2.50        | PASS    |



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|       |   |   |    |        |                 |                 |                 |         |         |         |      |      |
|-------|---|---|----|--------|-----------------|-----------------|-----------------|---------|---------|---------|------|------|
|       |   |   |    |        | 2               |                 |                 |         |         |         |      |      |
| 16QAM | 6 | 0 | NV | -30.00 | -<br>2.517<br>7 | 3.533<br>4      | -<br>7.209<br>8 | -0.0031 | 0.0042  | -0.0085 | 2.50 | PASS |
|       |   |   |    | -20.00 | -<br>4.134<br>2 | 0.414<br>8      | -<br>5.035<br>4 | -0.0050 | 0.0005  | -0.0059 | 2.50 | PASS |
|       |   |   |    | -10.00 | -<br>4.606<br>2 | 3.333<br>1      | -<br>4.506<br>1 | -0.0056 | 0.0040  | -0.0053 | 2.50 | PASS |
|       |   |   |    | 0.00   | -<br>6.623<br>3 | -<br>1.444<br>8 | -<br>0.858<br>3 | -0.0080 | -0.0017 | -0.0010 | 2.50 | PASS |
|       |   |   |    | 10.00  | -<br>5.664<br>8 | 2.474<br>8      | -<br>6.995<br>2 | -0.0069 | 0.0030  | -0.0082 | 2.50 | PASS |
|       |   |   |    | 20.00  | -<br>3.261<br>6 | -<br>1.273<br>2 | -<br>4.448<br>9 | -0.0040 | -0.0015 | -0.0052 | 2.50 | PASS |
|       |   |   |    | 30.00  | -<br>5.521<br>8 | -<br>3.562<br>0 | -<br>3.361<br>7 | -0.0067 | -0.0043 | -0.0040 | 2.50 | PASS |
|       |   |   |    | 40.00  | 0.243<br>2      | -<br>3.747<br>9 | -<br>1.316<br>1 | 0.0003  | -0.0045 | -0.0016 | 2.50 | PASS |
|       |   |   |    | 50.00  | -<br>4.220<br>0 | -<br>3.905<br>3 | 0.042<br>9      | -0.0051 | -0.0047 | 0.0001  | 2.50 | PASS |

| Test Band: 5    3MHz Bandwidth (Frequency Error VS. Voltage) |               |        |            |            |                  |                 |                 |                       |         |         |             |         |
|--------------------------------------------------------------|---------------|--------|------------|------------|------------------|-----------------|-----------------|-----------------------|---------|---------|-------------|---------|
| Test Mode                                                    | RB Allocation |        | Test Temp. | Test Volt. | Freq. Error (Hz) |                 |                 | Freq. vs. rated (ppm) |         |         | Limit (ppm) | Verdict |
|                                                              | Size          | Offset |            |            | LCH              | MCH             | HCH             | LCH                   | MCH     | HCH     |             |         |
| QPSK                                                         | 15            | 0      | NT         | LV         | 4.692<br>1       | 0.314<br>7      | 3.776<br>6      | 0.0057                | 0.0004  | 0.0045  | 2.50        | PASS    |
|                                                              |               |        |            | NV         | 6.709<br>1       | -<br>0.658<br>0 | 0.400<br>5      | 0.0081                | -0.0008 | 0.0005  | 2.50        | PASS    |
|                                                              |               |        |            | HV         | 4.091<br>3       | -<br>2.861<br>0 | -<br>2.861<br>0 | 0.0050                | -0.0034 | -0.0034 | 2.50        | PASS    |
| 16QAM                                                        | 15            | 0      | NT         | LV         | 4.849<br>4       | -<br>0.615<br>1 | 3.275<br>9      | 0.0059                | -0.0007 | 0.0039  | 2.50        | PASS    |
|                                                              |               |        |            | NV         | 2.975<br>5       | -<br>3.204<br>3 | -<br>0.987<br>1 | 0.0036                | -0.0038 | -0.0012 | 2.50        | PASS    |
|                                                              |               |        |            | HV         | 5.650<br>5       | -<br>5.378<br>7 | -<br>1.330<br>4 | 0.0068                | -0.0064 | -0.0016 | 2.50        | PASS    |

| Test Band: 5 3MHz Bandwidth (Frequency Error VS. Temperature) |               |        |            |            |                  |            |            |                       |         |        |             |         |
|---------------------------------------------------------------|---------------|--------|------------|------------|------------------|------------|------------|-----------------------|---------|--------|-------------|---------|
| Test Mode                                                     | RB Allocation |        | Test Volt. | Test Temp. | Freq. Error (Hz) |            |            | Freq. vs. rated (ppm) |         |        | Limit (ppm) | Verdict |
|                                                               | Size          | Offset |            |            | LCH              | MCH        | HCH        | LCH                   | MCH     | HCH    |             |         |
| QPSK                                                          | 15            | 0      | NV         | -30.00     | 6.551<br>7       | -<br>4.019 | 2.417<br>6 | 0.0079                | -0.0048 | 0.0029 | 2.50        | PASS    |



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|       |    |   |    |        |                 |                 |                 |         |         |         |      |      |
|-------|----|---|----|--------|-----------------|-----------------|-----------------|---------|---------|---------|------|------|
|       |    |   |    |        |                 | 7               |                 |         |         |         |      |      |
|       |    |   |    | -20.00 | 3.433<br>2      | 5.807<br>9      | 1.130<br>1      | 0.0042  | -0.0069 | -0.0013 | 2.50 | PASS |
|       |    |   |    | -10.00 | 7.481<br>6      | 0.228<br>9      | 2.489<br>1      | 0.0091  | 0.0003  | 0.0029  | 2.50 | PASS |
|       |    |   |    | 0.00   | 1.831<br>1      | -<br>1.401<br>9 | 1.115<br>8      | 0.0022  | -0.0017 | 0.0013  | 2.50 | PASS |
|       |    |   |    | 10.00  | 5.879<br>4      | -<br>3.318<br>8 | -<br>0.371<br>9 | 0.0071  | -0.0040 | -0.0004 | 2.50 | PASS |
|       |    |   |    | 20.00  | 1.416<br>2      | -<br>4.792<br>2 | 3.891<br>0      | 0.0017  | -0.0057 | 0.0046  | 2.50 | PASS |
|       |    |   |    | 30.00  | 4.334<br>4      | -<br>2.732<br>3 | 0.400<br>5      | 0.0053  | -0.0033 | 0.0005  | 2.50 | PASS |
|       |    |   |    | 40.00  | 8.182<br>5      | -<br>2.560<br>6 | -<br>2.689<br>4 | 0.0099  | -0.0031 | -0.0032 | 2.50 | PASS |
|       |    |   |    | 50.00  | 3.547<br>7      | -<br>3.461<br>8 | 1.416<br>2      | 0.0043  | -0.0041 | 0.0017  | 2.50 | PASS |
| 16QAM | 15 | 0 | NV | -30.00 | 1.230<br>2      | 1.015<br>7      | -<br>2.446<br>2 | 0.0015  | 0.0012  | -0.0029 | 2.50 | PASS |
|       |    |   |    | -20.00 | 2.546<br>3      | -<br>2.245<br>9 | 1.072<br>9      | 0.0031  | -0.0027 | 0.0013  | 2.50 | PASS |
|       |    |   |    | -10.00 | 7.023<br>8      | -<br>4.921<br>0 | 1.516<br>3      | 0.0085  | -0.0059 | 0.0018  | 2.50 | PASS |
|       |    |   |    | 0.00   | 0.743<br>9      | 1.401<br>9      | -<br>1.173<br>0 | 0.0009  | 0.0017  | -0.0014 | 2.50 | PASS |
|       |    |   |    | 10.00  | 4.677<br>8      | -<br>2.102<br>9 | -<br>2.217<br>3 | 0.0057  | -0.0025 | -0.0026 | 2.50 | PASS |
|       |    |   |    | 20.00  | -<br>1.330<br>4 | -<br>4.563<br>3 | 1.430<br>5      | -0.0016 | -0.0055 | 0.0017  | 2.50 | PASS |
|       |    |   |    | 30.00  | 2.045<br>6      | -<br>3.647<br>8 | -<br>1.087<br>2 | 0.0025  | -0.0044 | -0.0013 | 2.50 | PASS |
|       |    |   |    | 40.00  | 5.979<br>5      | -<br>4.849<br>4 | 5.350<br>1      | 0.0072  | -0.0058 | 0.0063  | 2.50 | PASS |
|       |    |   |    | 50.00  | 1.459<br>1      | 1.344<br>7      | 2.818<br>1      | 0.0018  | 0.0016  | 0.0033  | 2.50 | PASS |

| Test Band: 5 5MHz Bandwidth (Frequency Error VS. Voltage) |               |        |            |            |                  |        |        |                       |         |        |             |         |
|-----------------------------------------------------------|---------------|--------|------------|------------|------------------|--------|--------|-----------------------|---------|--------|-------------|---------|
| Test Mode                                                 | RB Allocation |        | Test Temp. | Test Volt. | Freq. Error (Hz) |        |        | Freq. vs. rated (ppm) |         |        | Limit (ppm) | Verdict |
|                                                           | Size          | Offset |            |            | LCH              | MCH    | HCH    | LCH                   | MCH     | HCH    |             |         |
| QPSK                                                      | 25            | 0      | NT         | LV         | 1.5879           | -3.676 | 3.5620 | 0.0019                | -0.0044 | 0.0042 | 2.50        | PASS    |



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|-------|----|---|----|----|------------|-----------------|-----------------|--------|---------|---------|------|------|
|       |    |   |    |    |            | 4               |                 |        |         |         |      |      |
|       |    |   |    | NV | 1.373<br>3 | 3.590<br>6      | -<br>0.414<br>8 | 0.0017 | 0.0043  | -0.0005 | 2.50 | PASS |
|       |    |   |    | HV | 0.672<br>3 | 1.215<br>9      | 6.179<br>8      | 0.0008 | 0.0015  | 0.0073  | 2.50 | PASS |
| 16QAM | 25 | 0 | NT | LV | 2.303<br>1 | -<br>5.822<br>2 | 1.802<br>4      | 0.0028 | -0.0070 | 0.0021  | 2.50 | PASS |
|       |    |   |    | NV | 3.204<br>3 | -<br>4.320<br>1 | 3.190<br>0      | 0.0039 | -0.0052 | 0.0038  | 2.50 | PASS |
|       |    |   |    | HV | 2.131<br>5 | -<br>0.672<br>3 | 9.298<br>3      | 0.0026 | -0.0008 | 0.0110  | 2.50 | PASS |

| Test Band: 5 5MHz Bandwidth (Frequency Error VS. Temperature) |               |        |            |            |                  |                 |                 |                       |         |         |             |         |
|---------------------------------------------------------------|---------------|--------|------------|------------|------------------|-----------------|-----------------|-----------------------|---------|---------|-------------|---------|
| Test Mode                                                     | RB Allocation |        | Test Volt. | Test Temp. | Freq. Error (Hz) |                 |                 | Freq. vs. rated (ppm) |         |         | Limit (ppm) | Verdict |
|                                                               | Size          | Offset |            |            | LCH              | MCH             | HCH             | LCH                   | MCH     | HCH     |             |         |
| QPSK                                                          | 25            | 0      | NV         | -30.00     | 2.017<br>0       | -<br>1.330<br>4 | 3.032<br>7      | 0.0024                | -0.0016 | 0.0036  | 2.50        | PASS    |
|                                                               |               |        |            | -20.00     | 1.301<br>8       | -<br>3.504<br>8 | 5.579<br>0      | 0.0016                | -0.0042 | 0.0066  | 2.50        | PASS    |
|                                                               |               |        |            | -10.00     | 3.905<br>3       | -<br>6.065<br>4 | 4.935<br>3      | 0.0047                | -0.0073 | 0.0058  | 2.50        | PASS    |
|                                                               |               |        |            | 0.00       | -<br>1.015<br>7  | -<br>0.486<br>4 | 3.533<br>4      | -0.0012               | 0.0006  | 0.0042  | 2.50        | PASS    |
|                                                               |               |        |            | 10.00      | -<br>0.228<br>9  | -<br>2.031<br>3 | 1.030<br>0      | -0.0003               | -0.0024 | 0.0012  | 2.50        | PASS    |
|                                                               |               |        |            | 20.00      | 2.646<br>4       | -<br>4.520<br>4 | -<br>0.815<br>4 | 0.0032                | -0.0054 | -0.0010 | 2.50        | PASS    |
|                                                               |               |        |            | 30.00      | 5.636<br>2       | -<br>1.430<br>5 | 2.217<br>3      | 0.0068                | 0.0017  | 0.0026  | 2.50        | PASS    |
|                                                               |               |        |            | 40.00      | 2.861<br>0       | -<br>0.214<br>6 | 4.463<br>2      | 0.0035                | -0.0003 | 0.0053  | 2.50        | PASS    |
|                                                               |               |        |            | 50.00      | -<br>2.288<br>8  | -<br>3.161<br>4 | 3.204<br>3      | -0.0028               | -0.0038 | 0.0038  | 2.50        | PASS    |
| 16QAM                                                         | 25            | 0      | NV         | -30.00     | -<br>1.001<br>4  | -<br>2.703<br>7 | 7.252<br>7      | -0.0012               | -0.0032 | 0.0086  | 2.50        | PASS    |
|                                                               |               |        |            | -20.00     | 1.387<br>6       | -<br>2.088<br>5 | 6.079<br>7      | 0.0017                | -0.0025 | 0.0072  | 2.50        | PASS    |
|                                                               |               |        |            | -10.00     | 0.100<br>1       | -<br>1.773<br>8 | 5.021<br>1      | 0.0001                | -0.0021 | 0.0059  | 2.50        | PASS    |
|                                                               |               |        |            | 0.00       | -<br>2.675       | -<br>2.975      | 4.048<br>3      | -0.0032               | -0.0036 | 0.0048  | 2.50        | PASS    |



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|--|--|--|--|-------|-----------------|-----------------|-----------------|---------|---------|---------|------|------|
|  |  |  |  |       | 1               | 5               |                 |         |         |         |      |      |
|  |  |  |  | 10.00 | 0.243<br>2      | -<br>3.733<br>6 | 2.975<br>5      | 0.0003  | -0.0045 | 0.0035  | 2.50 | PASS |
|  |  |  |  | 20.00 | -<br>0.958<br>4 | -<br>5.121<br>2 | 2.017<br>0      | -0.0012 | -0.0061 | 0.0024  | 2.50 | PASS |
|  |  |  |  | 30.00 | -<br>2.331<br>7 | -<br>6.837<br>8 | -<br>0.500<br>7 | -0.0028 | -0.0082 | -0.0006 | 2.50 | PASS |
|  |  |  |  | 40.00 | 0.929<br>8      | 0.729<br>6      | 2.875<br>3      | 0.0011  | 0.0009  | 0.0034  | 2.50 | PASS |
|  |  |  |  | 50.00 | -<br>3.604<br>9 | -<br>0.529<br>3 | 7.066<br>7      | -0.0044 | -0.0006 | 0.0083  | 2.50 | PASS |

| Test Band: 5 10MHz Bandwidth (Frequency Error VS. Voltage) |               |        |            |            |                  |                 |                 |                       |         |         |             |         |
|------------------------------------------------------------|---------------|--------|------------|------------|------------------|-----------------|-----------------|-----------------------|---------|---------|-------------|---------|
| Test Mode                                                  | RB Allocation |        | Test Temp. | Test Volt. | Freq. Error (Hz) |                 |                 | Freq. vs. rated (ppm) |         |         | Limit (ppm) | Verdict |
|                                                            | Size          | Offset |            |            | LCH              | MCH             | HCH             | LCH                   | MCH     | HCH     |             |         |
| QPSK                                                       | 50            | 0      | NT         | LV         | 0.643<br>7       | -<br>0.071<br>5 | -<br>5.278<br>6 | 0.0008                | -0.0001 | -0.0063 | 2.50        | PASS    |
|                                                            |               |        |            | NV         | -<br>3.118<br>5  | -<br>4.019<br>7 | -<br>1.044<br>3 | -0.0038               | -0.0048 | -0.0012 | 2.50        | PASS    |
|                                                            |               |        |            | HV         | -<br>1.602<br>2  | -<br>1.874<br>0 | -<br>2.989<br>8 | -0.0019               | -0.0022 | -0.0035 | 2.50        | PASS    |
| 16QAM                                                      | 50            | 0      | NT         | LV         | -<br>1.888<br>3  | -<br>6.465<br>9 | -<br>1.845<br>4 | -0.0023               | -0.0077 | -0.0022 | 2.50        | PASS    |
|                                                            |               |        |            | NV         | -<br>0.500<br>7  | -<br>6.637<br>6 | -<br>5.536<br>1 | -0.0006               | -0.0079 | -0.0066 | 2.50        | PASS    |
|                                                            |               |        |            | HV         | -<br>2.689<br>4  | -<br>2.803<br>8 | -<br>0.286<br>1 | -0.0032               | -0.0034 | -0.0003 | 2.50        | PASS    |

| Test Band: 5 10MHz Bandwidth (Frequency Error VS. Temperature) |               |        |            |            |                  |                 |                 |                       |         |         |             |         |
|----------------------------------------------------------------|---------------|--------|------------|------------|------------------|-----------------|-----------------|-----------------------|---------|---------|-------------|---------|
| Test Mode                                                      | RB Allocation |        | Test Volt. | Test Temp. | Freq. Error (Hz) |                 |                 | Freq. vs. rated (ppm) |         |         | Limit (ppm) | Verdict |
|                                                                | Size          | Offset |            |            | LCH              | MCH             | HCH             | LCH                   | MCH     | HCH     |             |         |
| QPSK                                                           | 50            | 0      | NV         | -30.00     | 0.600<br>8       | 3.004<br>1      | 2.403<br>3      | -0.0007               | -0.0036 | -0.0028 | 2.50        | PASS    |
|                                                                |               |        |            | -20.00     | -<br>3.075<br>6  | -<br>4.677<br>8 | -<br>2.403<br>3 | -0.0037               | -0.0056 | -0.0028 | 2.50        | PASS    |
|                                                                |               |        |            | -10.00     | -<br>5.278<br>6  | -<br>1.616<br>5 | -<br>2.245<br>9 | -0.0064               | -0.0019 | -0.0027 | 2.50        | PASS    |
|                                                                |               |        |            | 0.00       | 2.961<br>2       | 3.476<br>1      | 2.646<br>4      | -0.0036               | -0.0042 | -0.0031 | 2.50        | PASS    |
|                                                                |               |        |            | 10.00      | -<br>0.157       | -<br>3.790      | -<br>3.132      | -0.0002               | -0.0045 | -0.0037 | 2.50        | PASS    |



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|-------|----|---|----|--------|------------|------------|------------|---------|---------|---------|------|------|
|       |    |   |    |        | 4          | 9          | 8          |         |         |         |      |      |
|       |    |   |    | 20.00  | 4.105<br>6 | 4.549<br>0 | 2.460<br>5 | -0.0050 | -0.0054 | -0.0029 | 2.50 | PASS |
|       |    |   |    | 30.00  | 1.144<br>4 | 0.128<br>7 | 1.845<br>4 | -0.0014 | -0.0002 | -0.0022 | 2.50 | PASS |
|       |    |   |    | 40.00  | 4.220<br>0 | 3.747<br>9 | 4.477<br>5 | -0.0051 | -0.0045 | -0.0053 | 2.50 | PASS |
|       |    |   |    | 50.00  | 0.457<br>8 | 5.693<br>4 | 5.164<br>1 | -0.0006 | -0.0068 | -0.0061 | 2.50 | PASS |
| 16QAM | 50 | 0 | NV | -30.00 | 3.018<br>4 | 0.357<br>6 | 1.087<br>2 | -0.0036 | -0.0004 | -0.0013 | 2.50 | PASS |
|       |    |   |    | -20.00 | 2.646<br>4 | 2.231<br>6 | 3.862<br>4 | -0.0032 | -0.0027 | -0.0046 | 2.50 | PASS |
|       |    |   |    | -10.00 | 3.576<br>3 | 4.649<br>2 | 5.135<br>5 | -0.0043 | -0.0056 | -0.0061 | 2.50 | PASS |
|       |    |   |    | 0.00   | 3.061<br>3 | 6.766<br>3 | 7.209<br>8 | -0.0037 | -0.0081 | -0.0085 | 2.50 | PASS |
|       |    |   |    | 10.00  | 2.946<br>9 | 0.729<br>6 | 6.938<br>0 | -0.0036 | -0.0009 | -0.0082 | 2.50 | PASS |
|       |    |   |    | 20.00  | 3.504<br>8 | 2.203<br>0 | 2.346<br>0 | -0.0042 | -0.0026 | -0.0028 | 2.50 | PASS |
|       |    |   |    | 30.00  | 5.893<br>7 | 4.577<br>6 | 2.689<br>4 | -0.0071 | -0.0055 | -0.0032 | 2.50 | PASS |
|       |    |   |    | 40.00  | 1.130<br>1 | 6.165<br>5 | 4.019<br>7 | -0.0014 | -0.0074 | -0.0048 | 2.50 | PASS |
|       |    |   |    | 50.00  | 2.989<br>8 | 2.760<br>9 | 5.006<br>8 | -0.0036 | -0.0033 | -0.0059 | 2.50 | PASS |

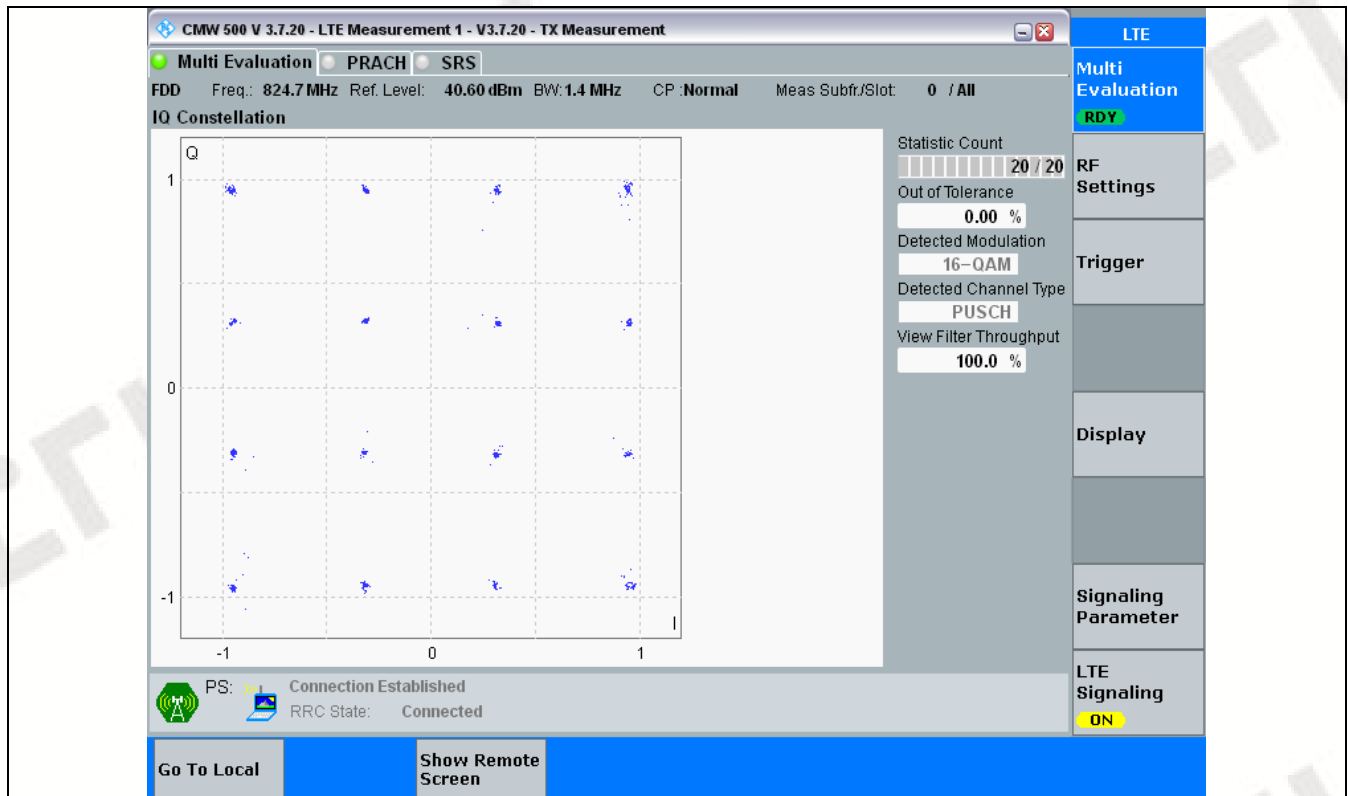


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### 3. Modulation Characteristics

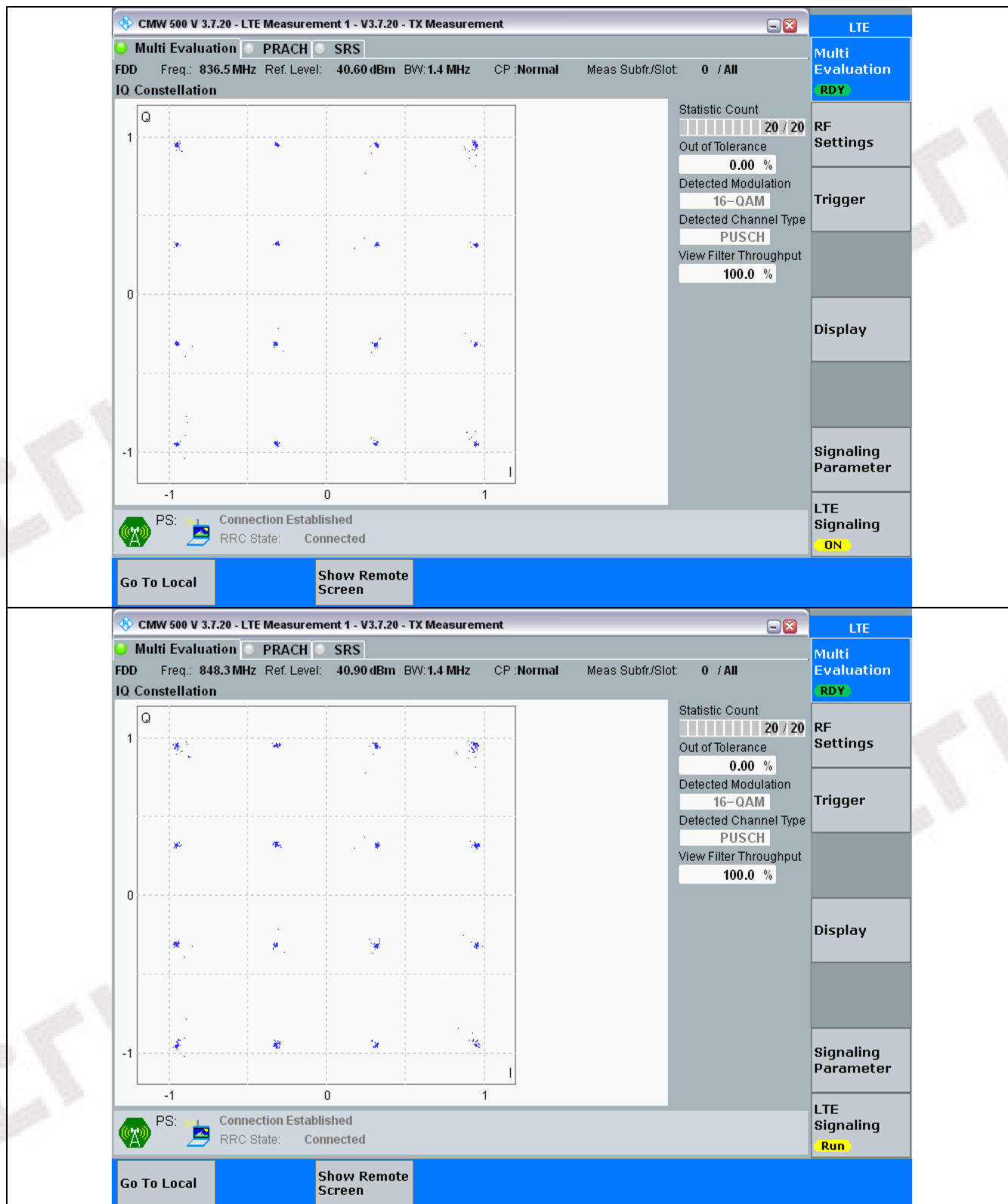
#### 3.1 Test Graph





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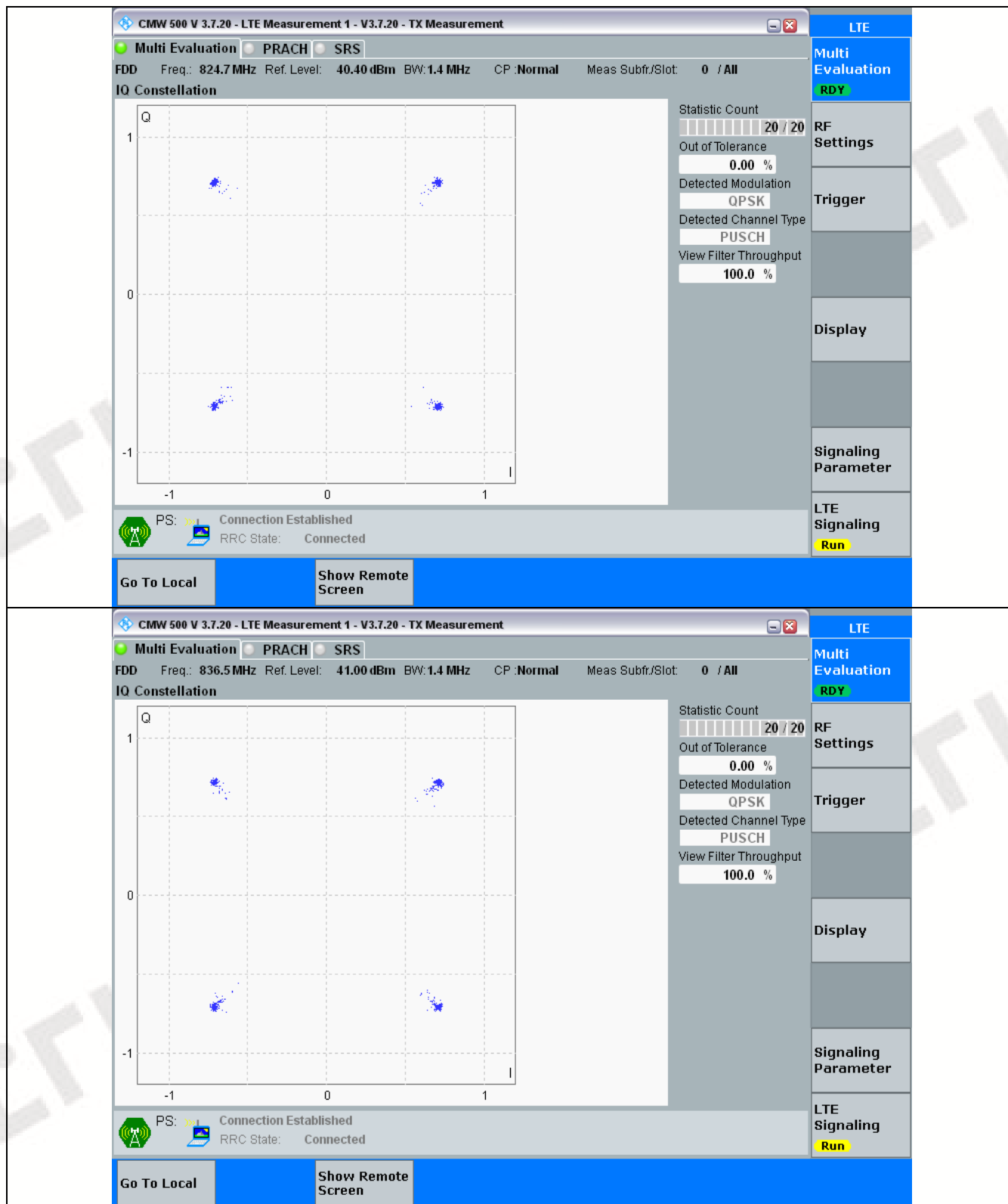
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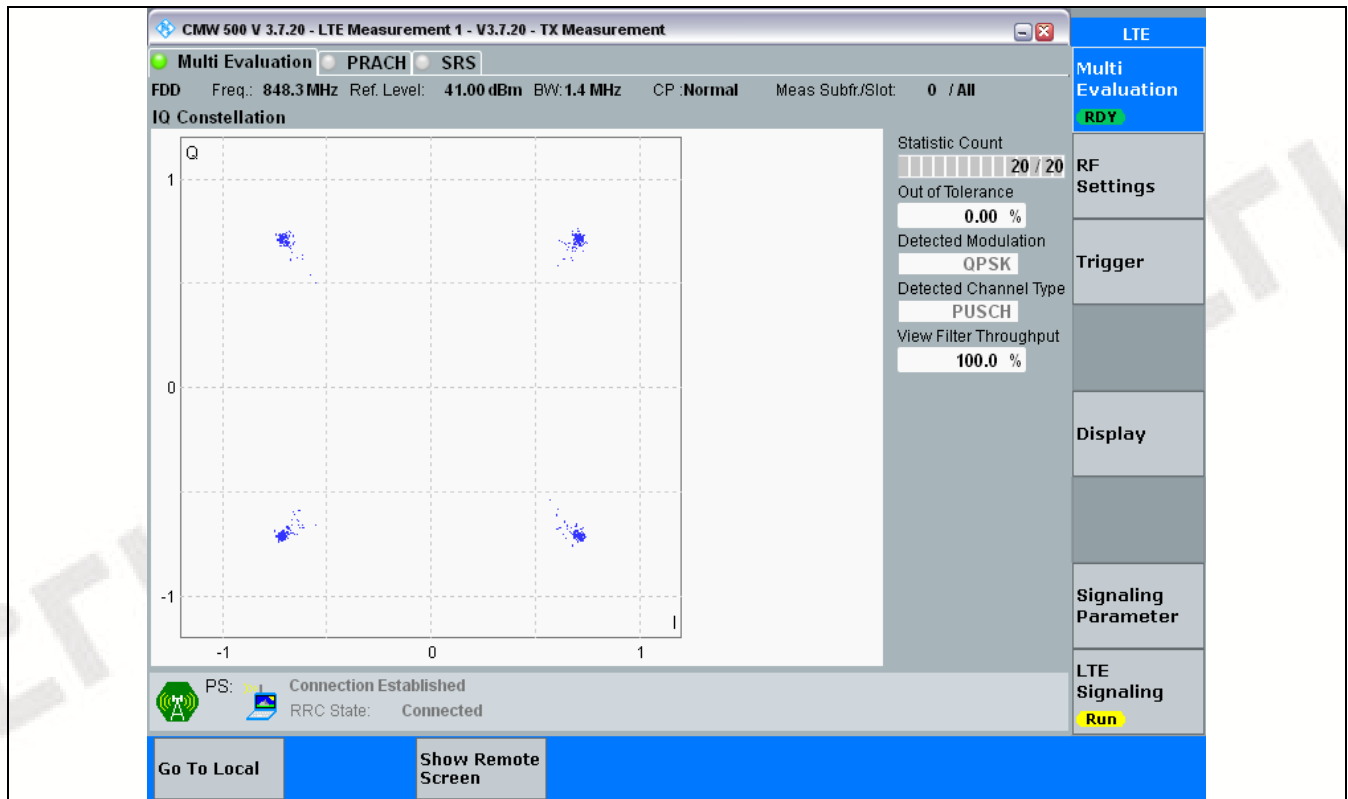
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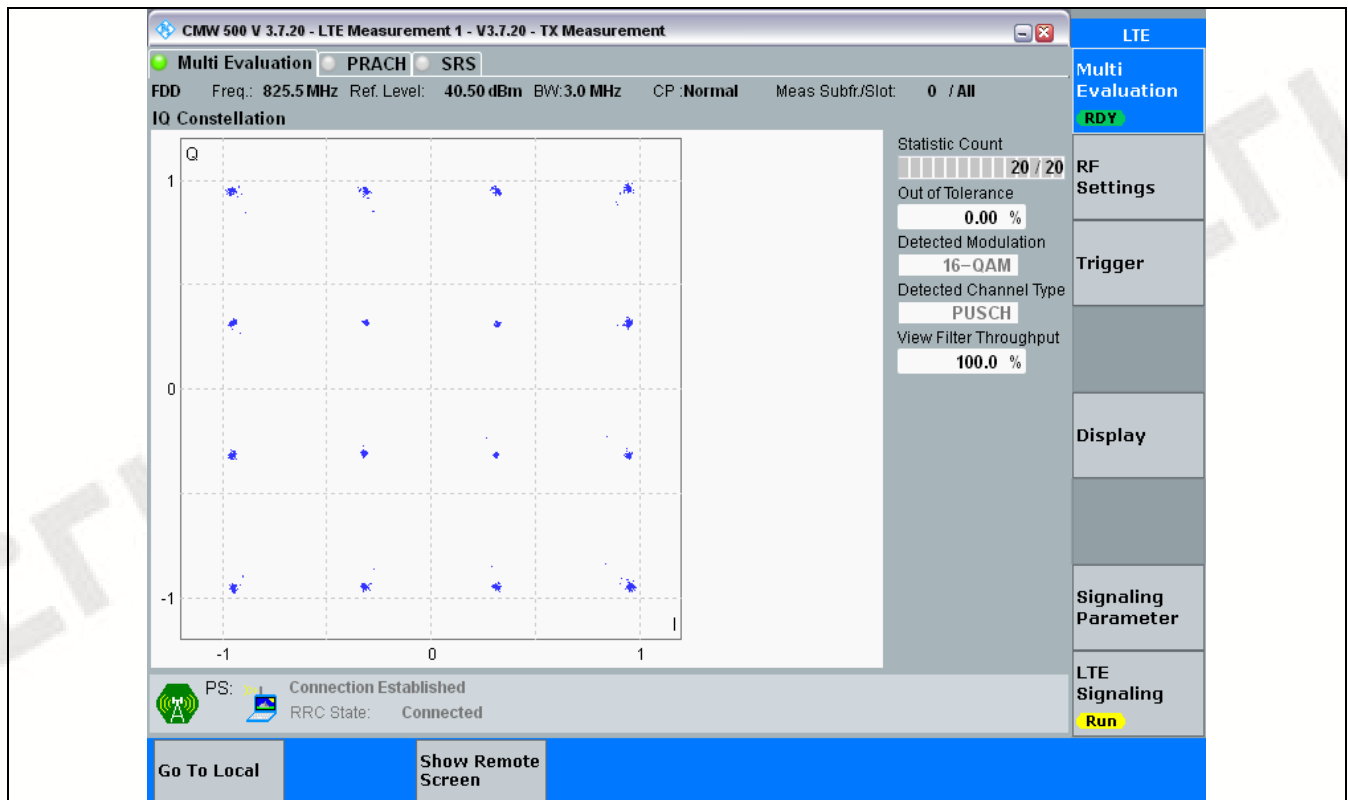




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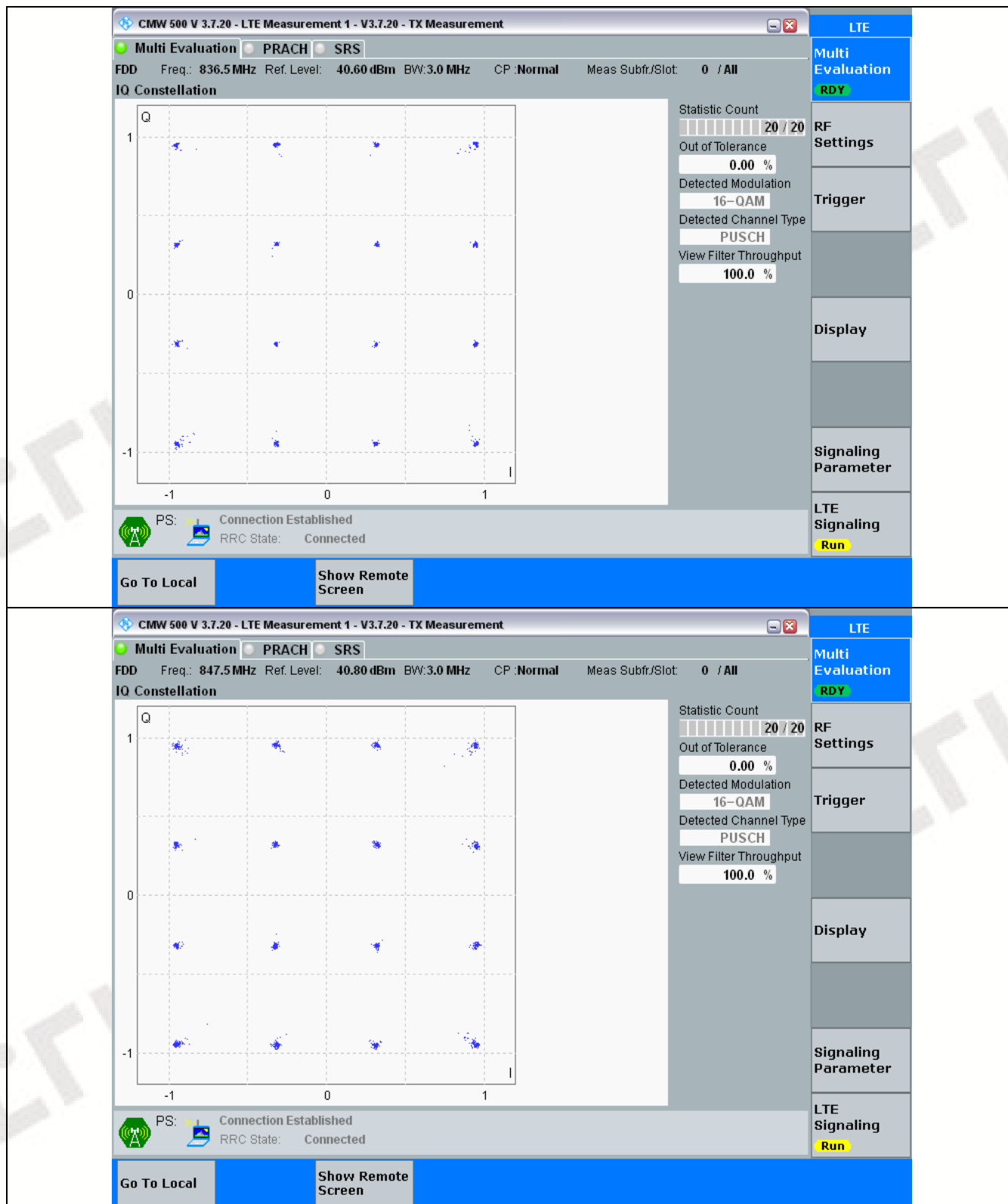
### 3.1 Test Graph





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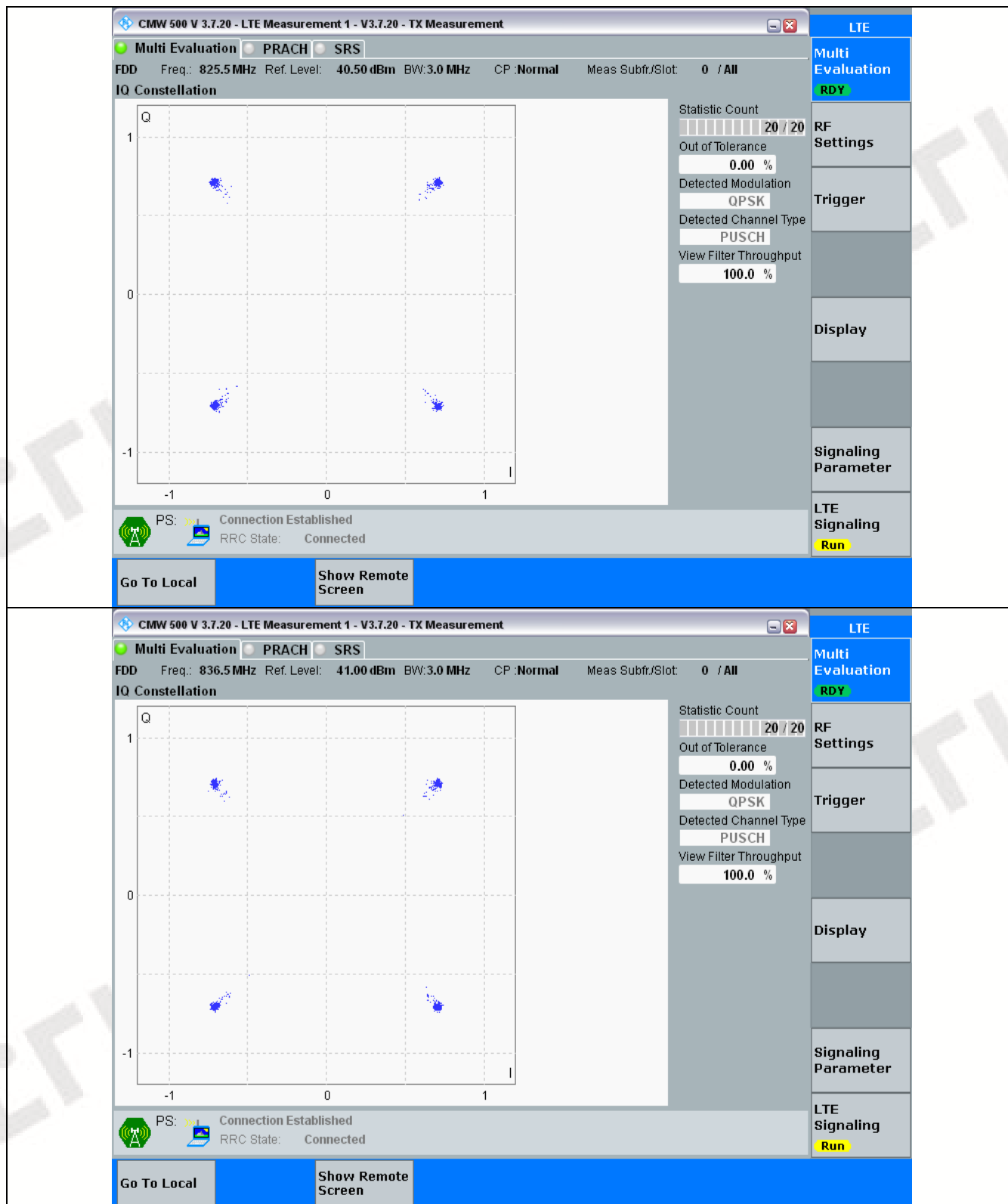
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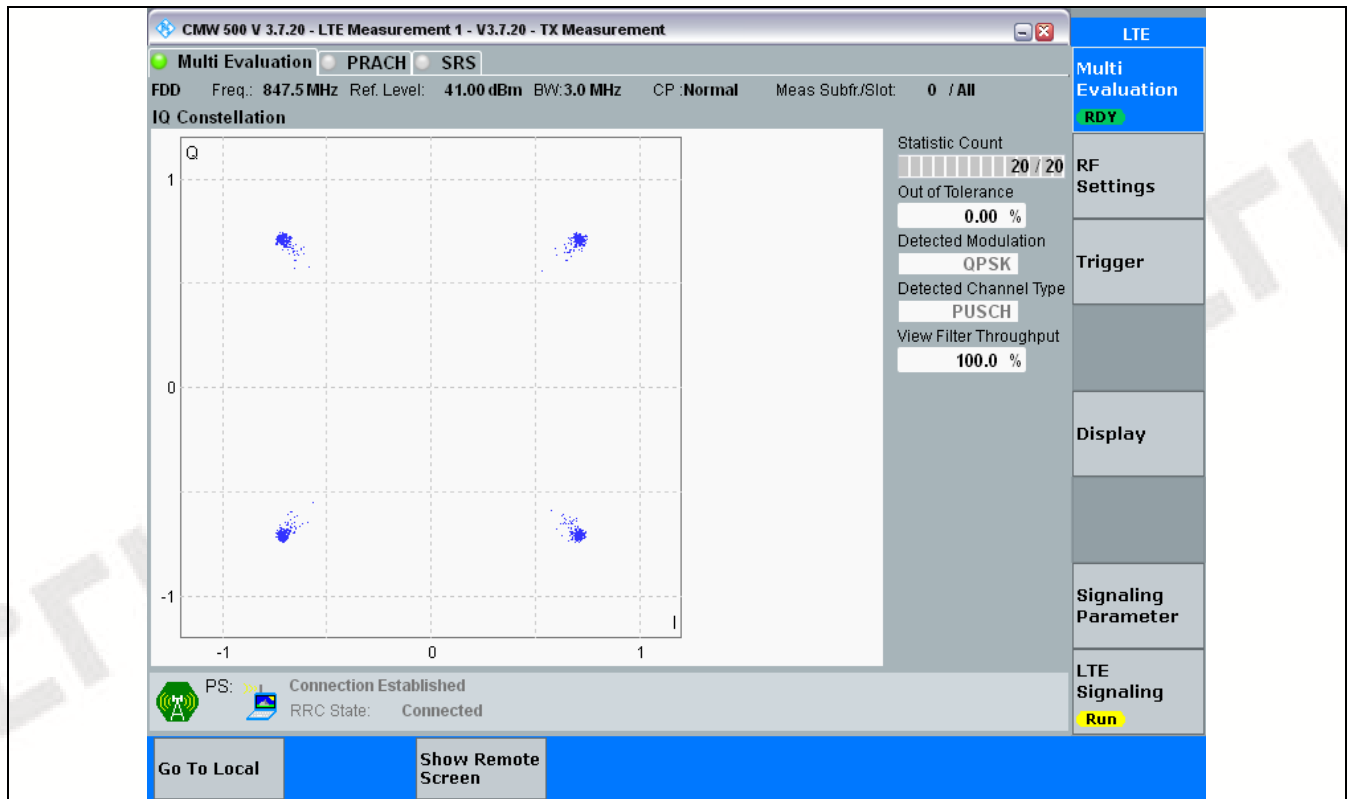
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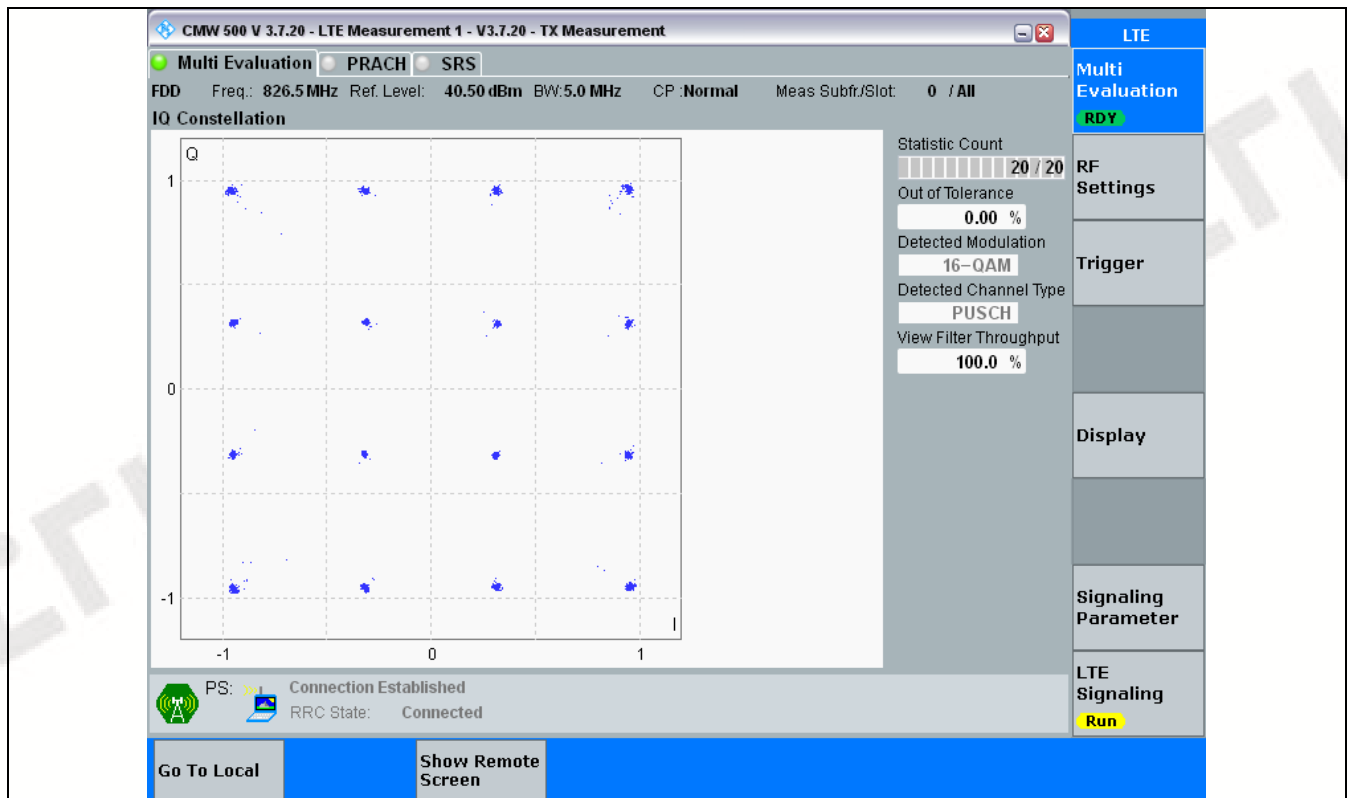




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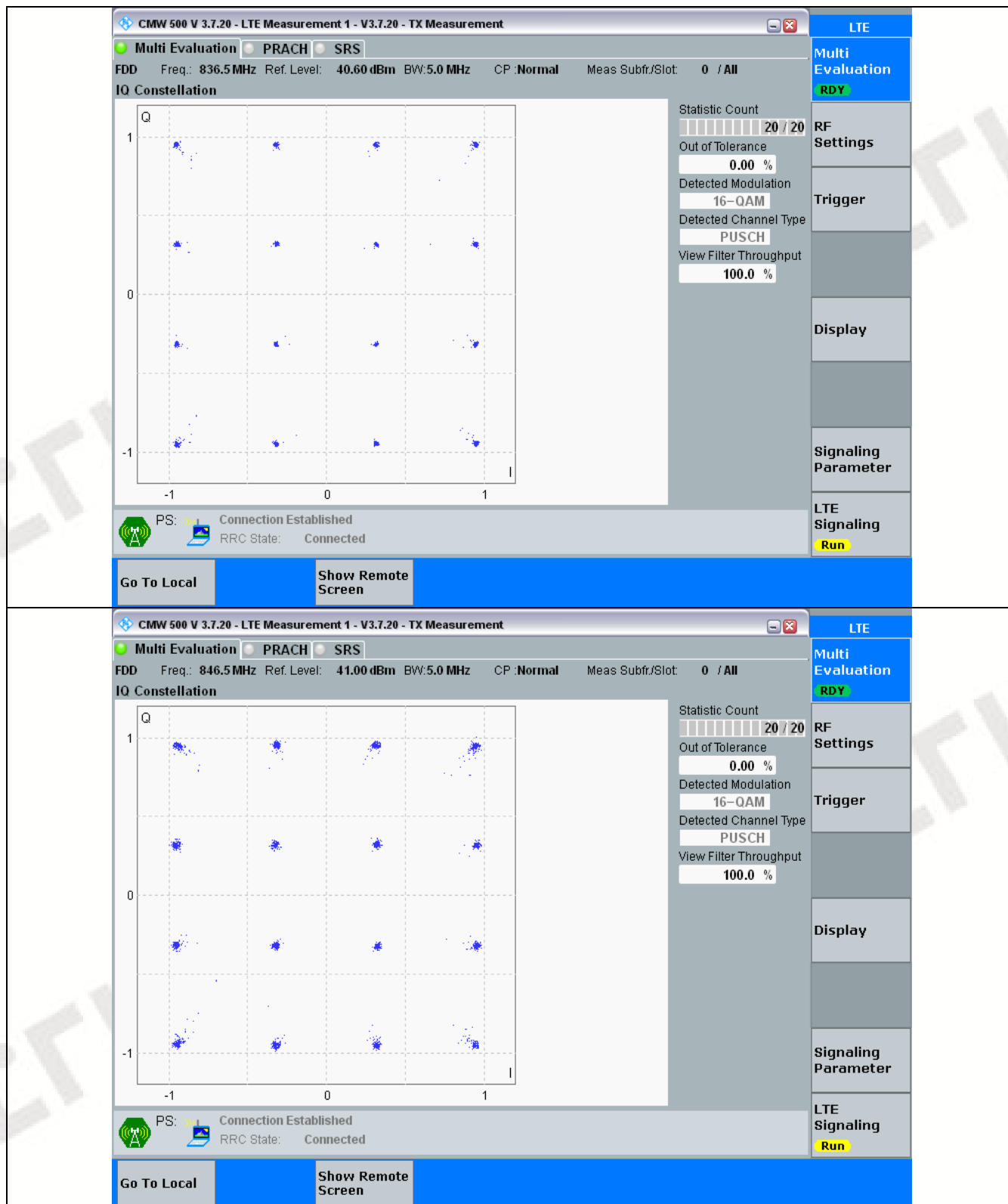
### 3.1 Test Graph





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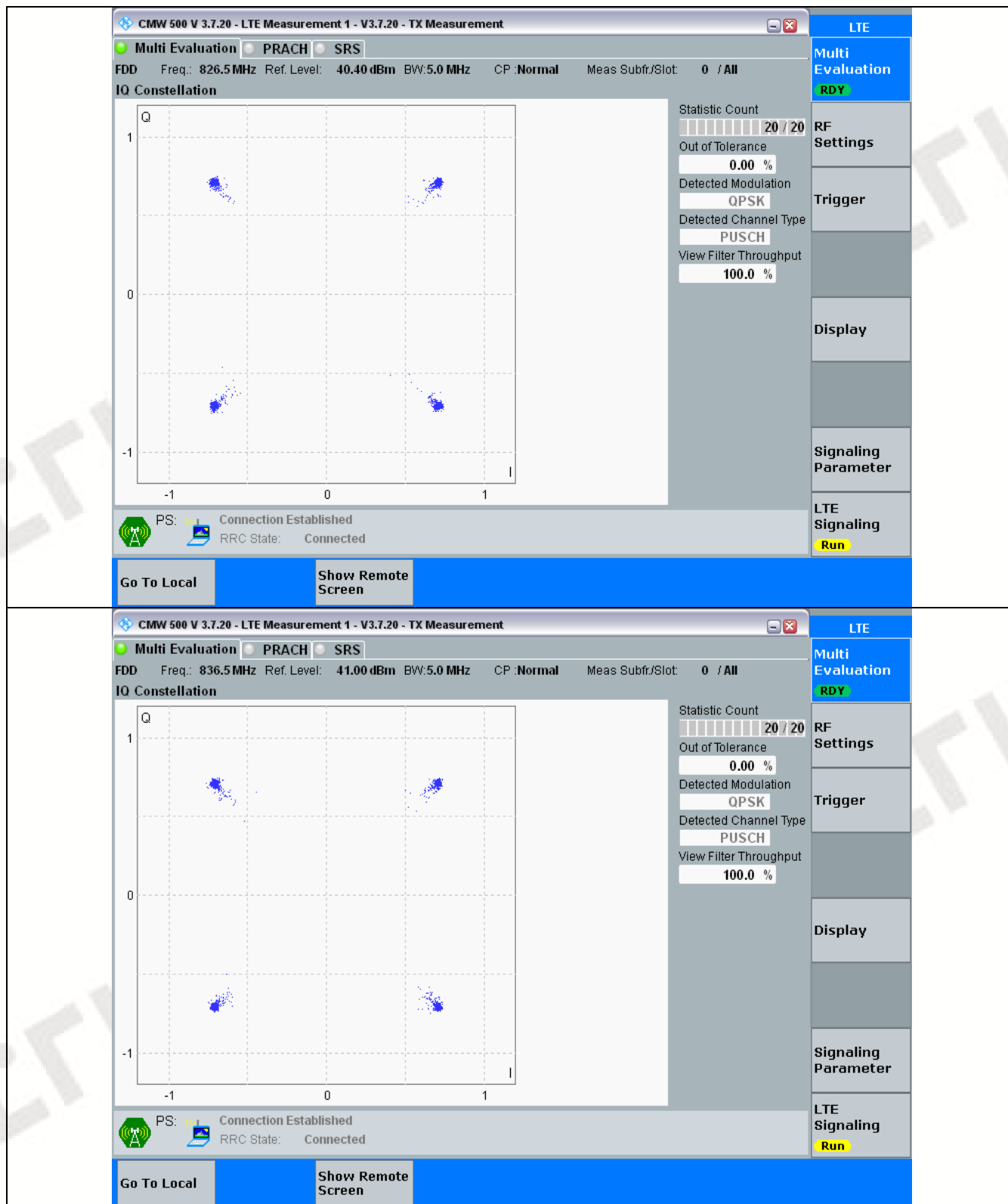
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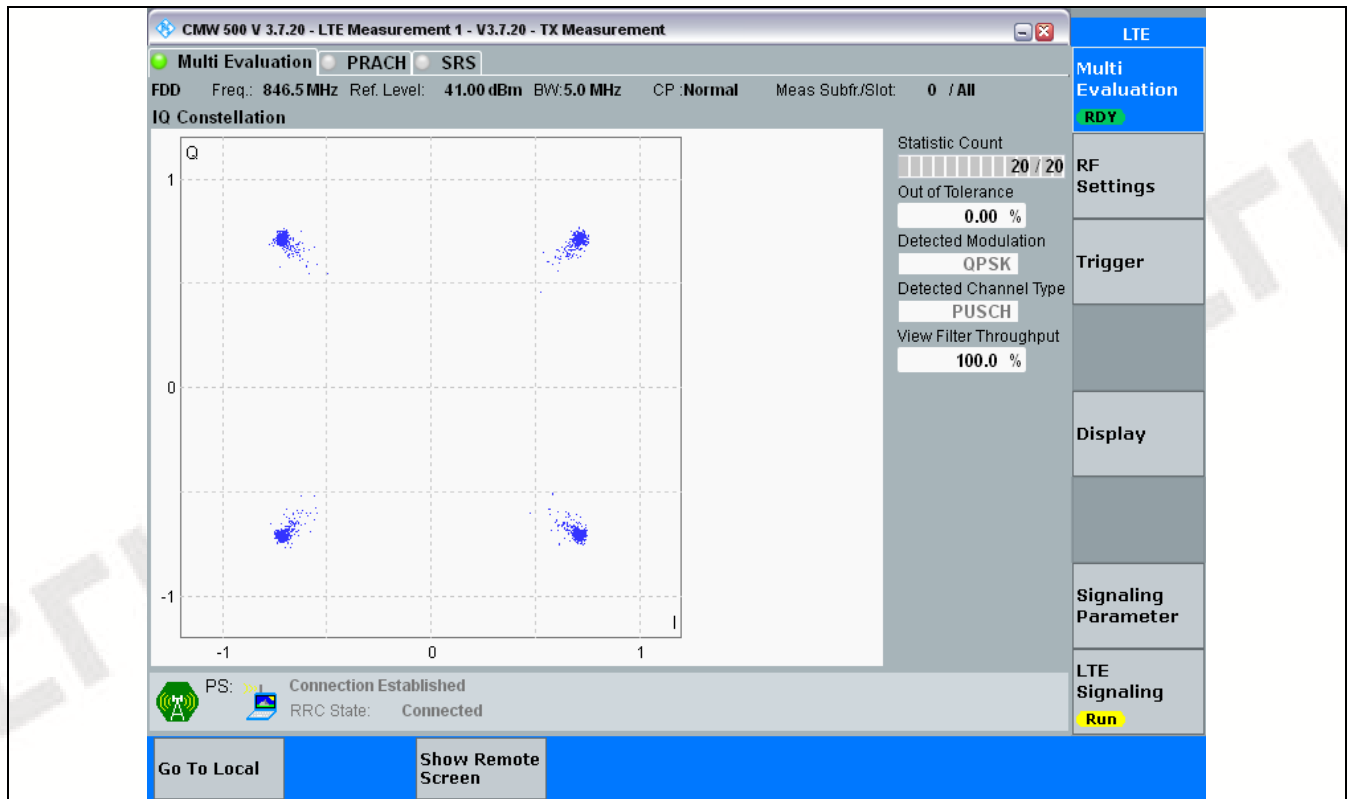
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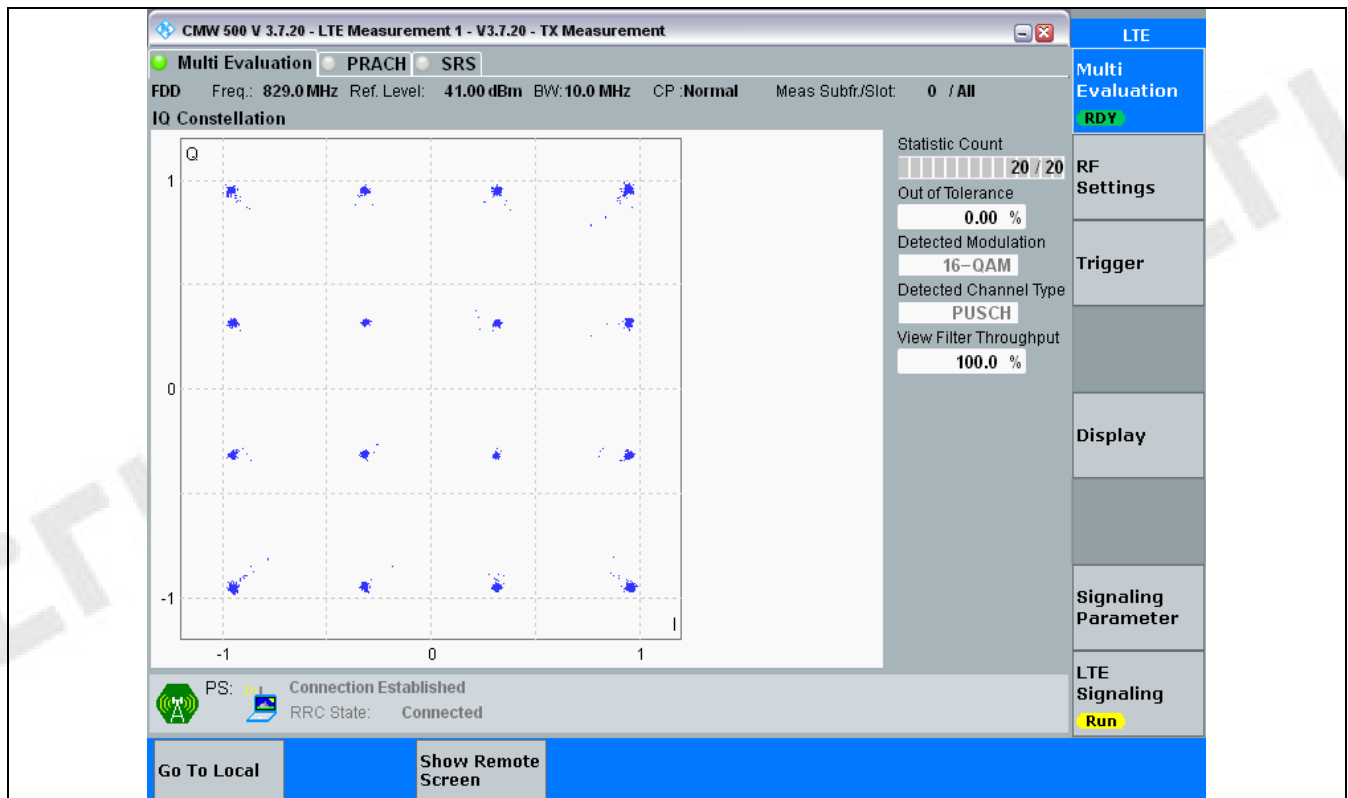




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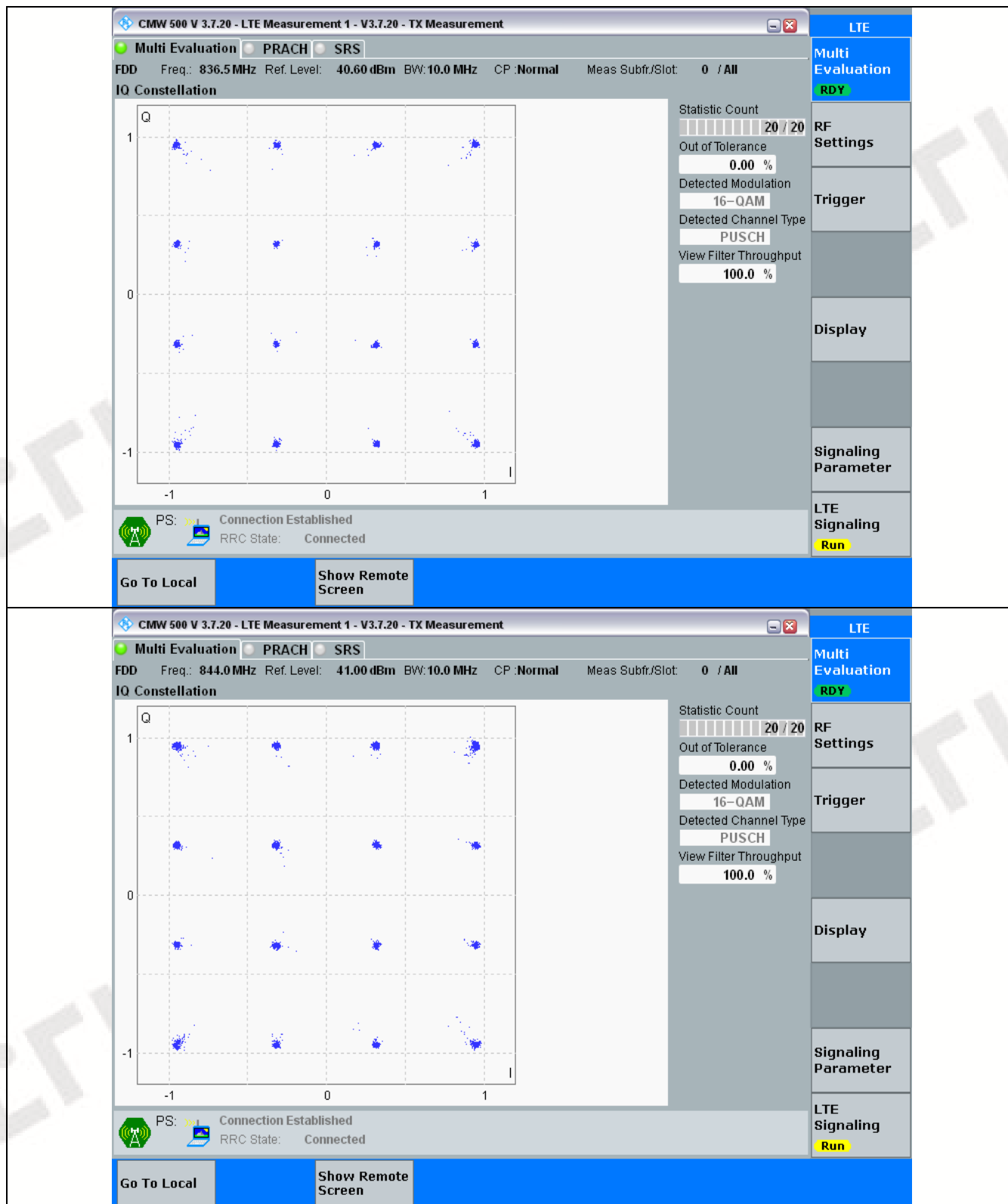
### 3.1 Test Graph





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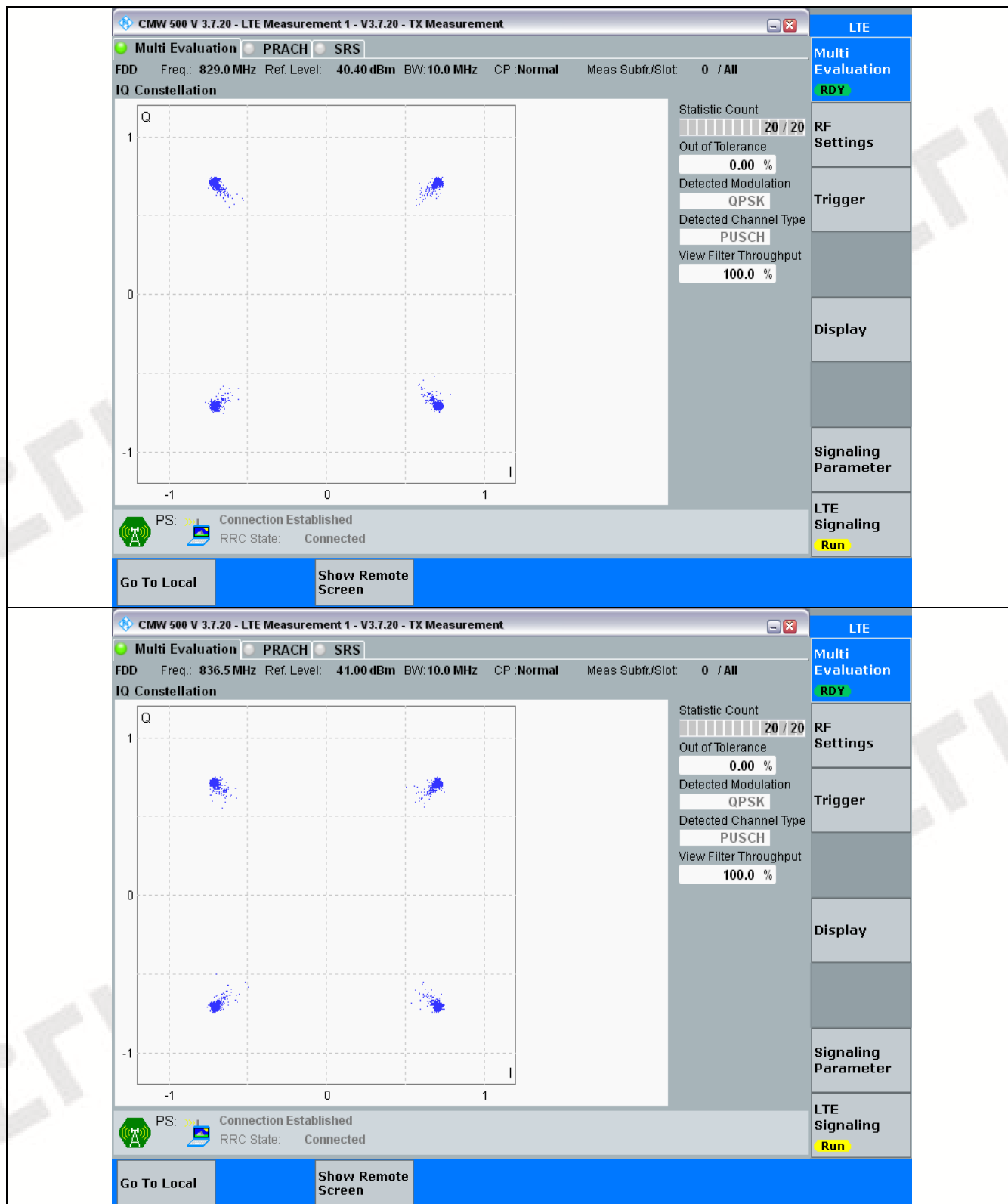
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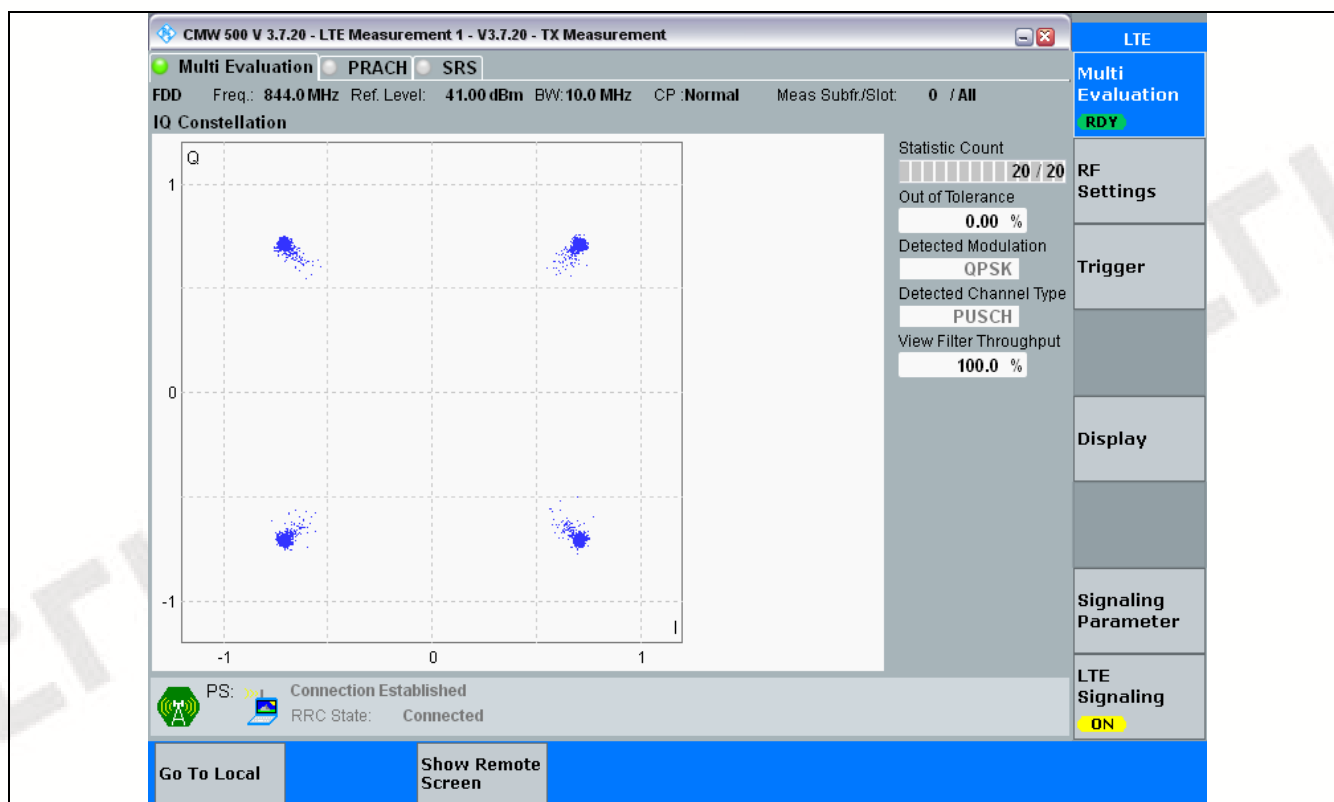
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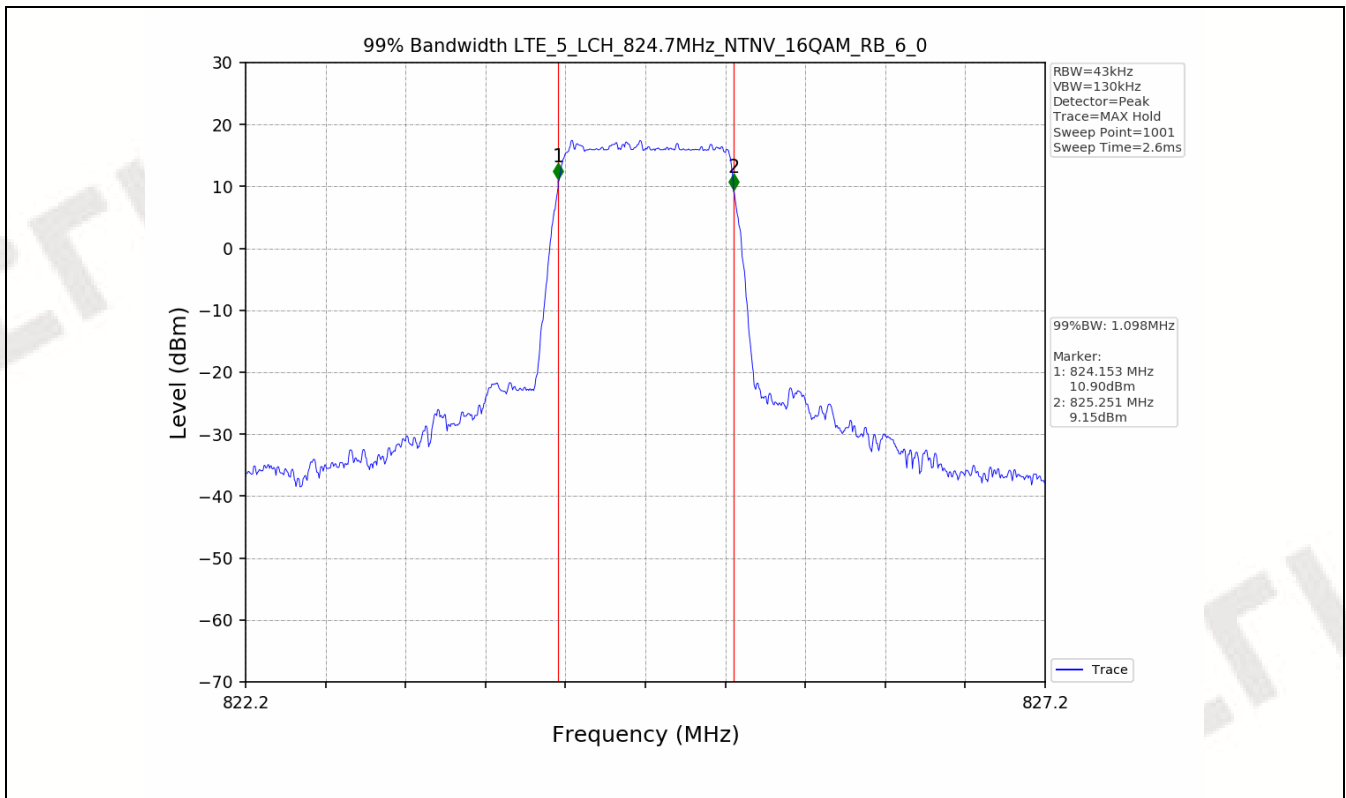


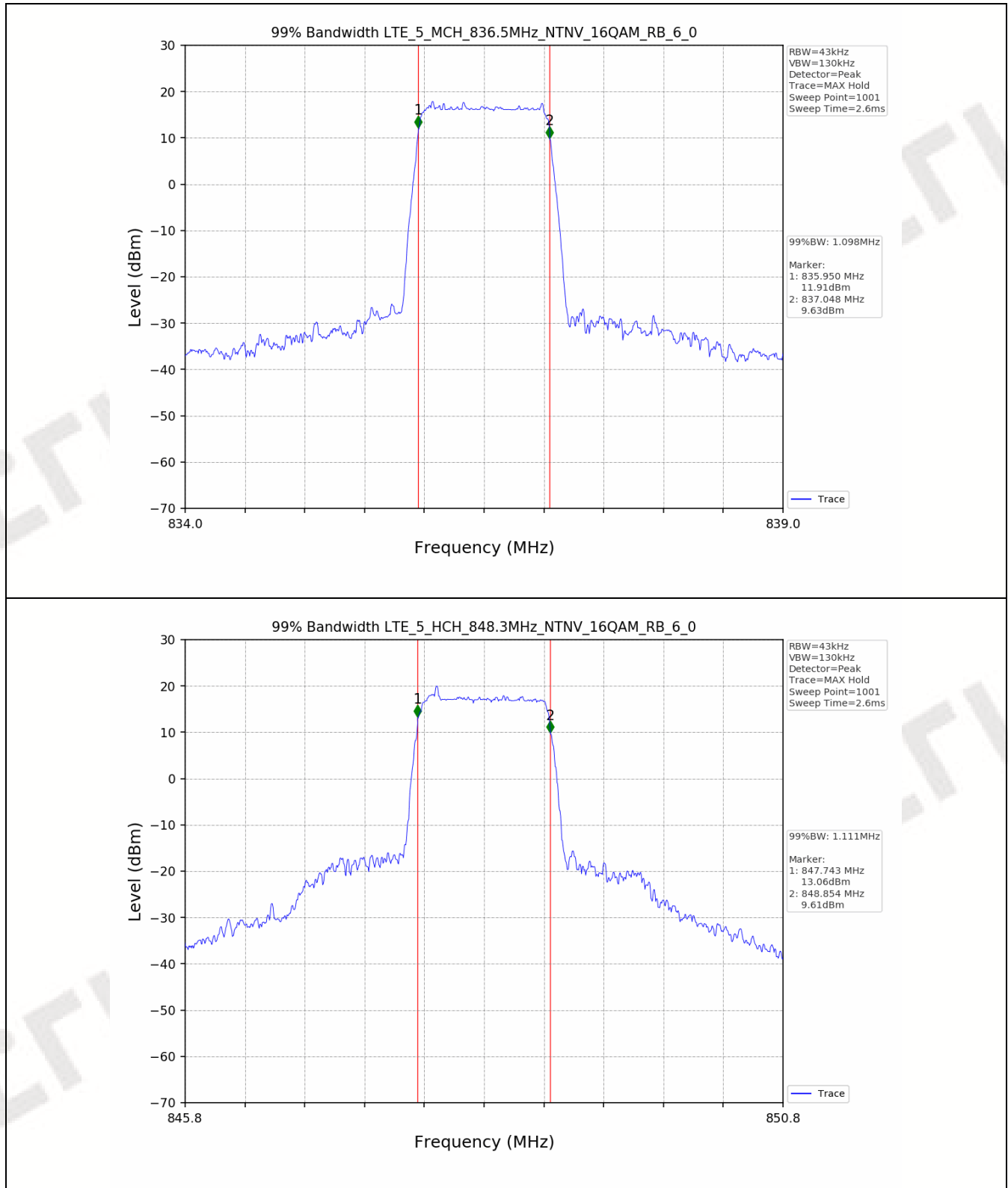
## 4. 99% & 26dB Bandwidth

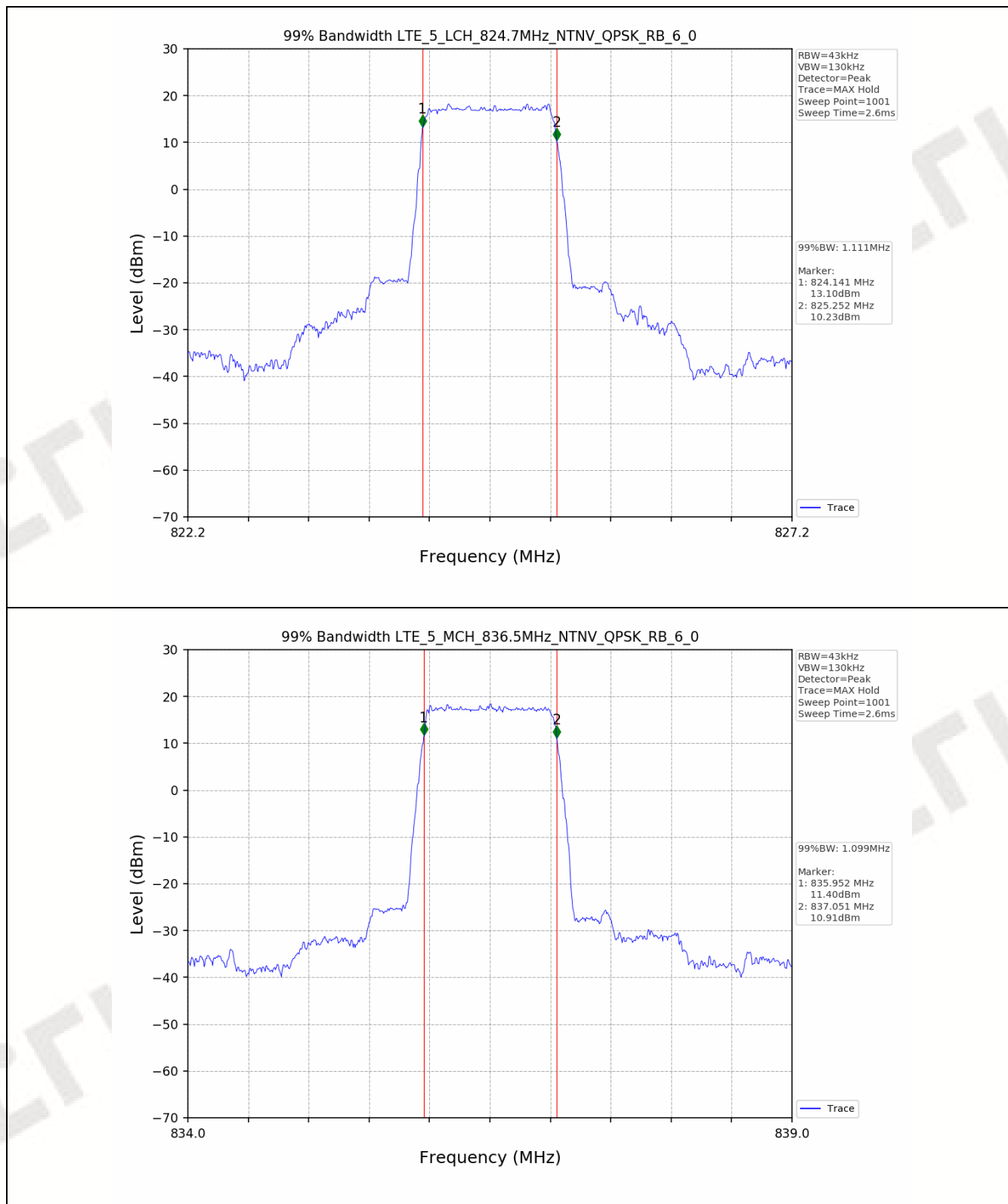
### 4.1 Test Result

| Test Band: 5_1.4MHz Bandwidth |               |        |                              |       |       |       |         |
|-------------------------------|---------------|--------|------------------------------|-------|-------|-------|---------|
| Test Mode                     | RB Allocation |        | 99% Occupied Bandwidth (MHz) |       |       | Limit | Verdict |
|                               | Size          | Offset | LCH                          | MCH   | HCH   |       |         |
| QPSK                          | 6             | 0      | 1.111                        | 1.099 | 1.102 | N/A   | PASS    |
| 16QAM                         | 6             | 0      | 1.098                        | 1.098 | 1.111 | N/A   | PASS    |

### 4.2 Test Graph



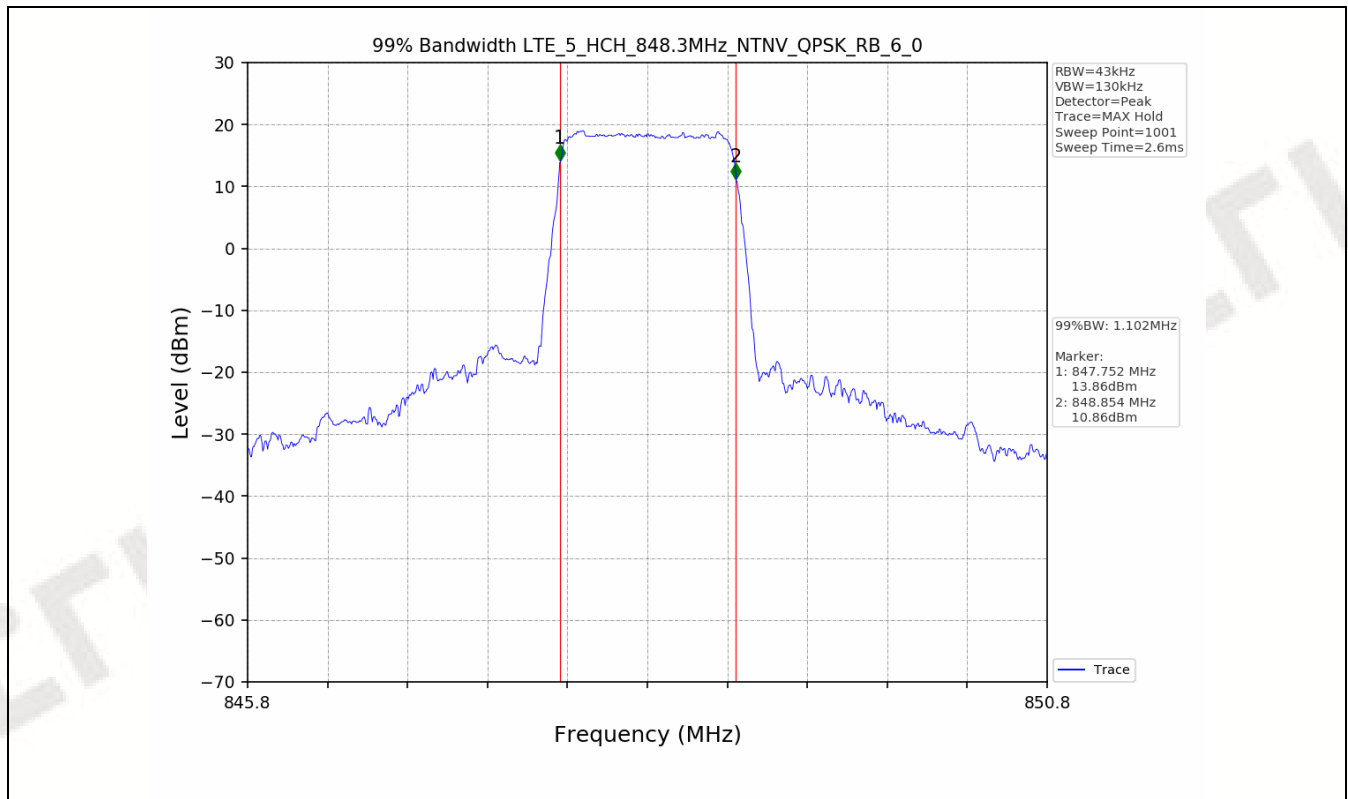






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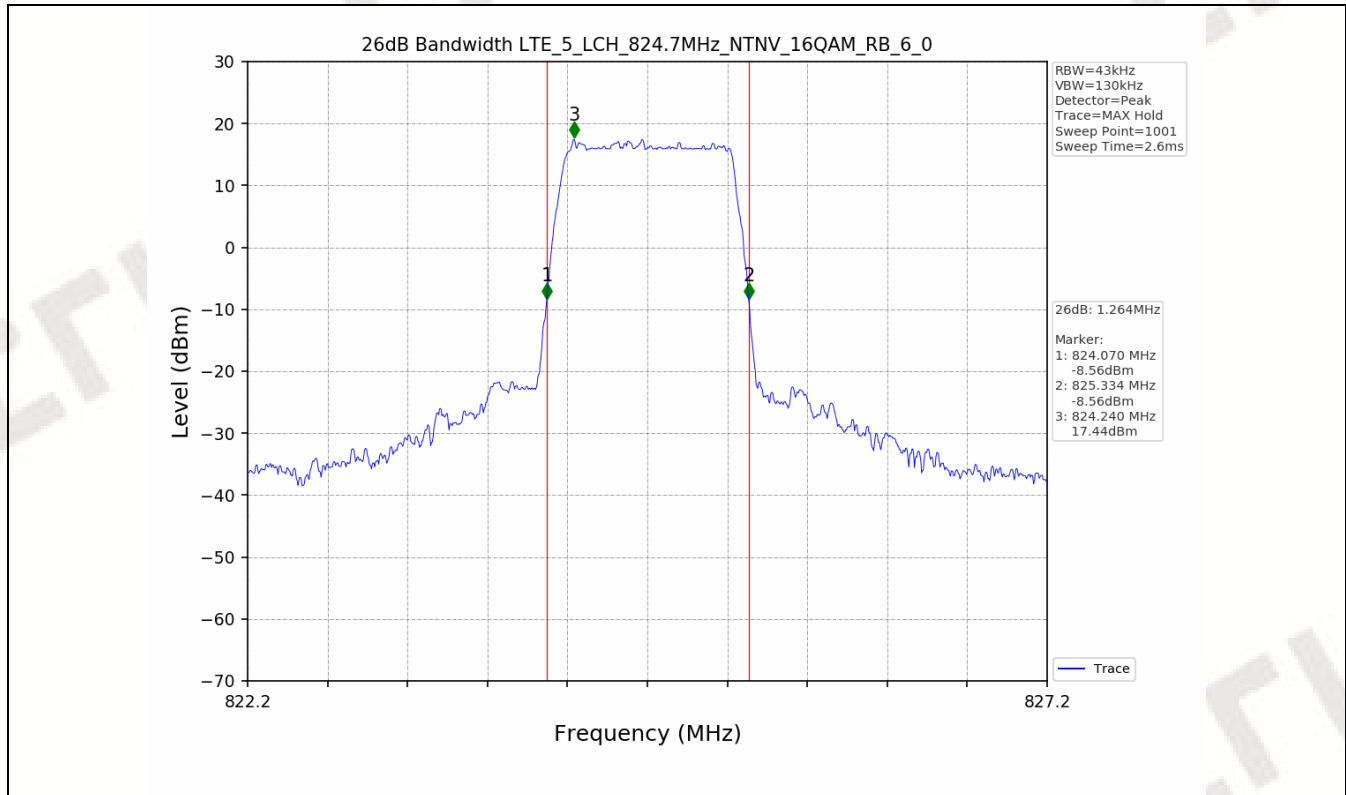
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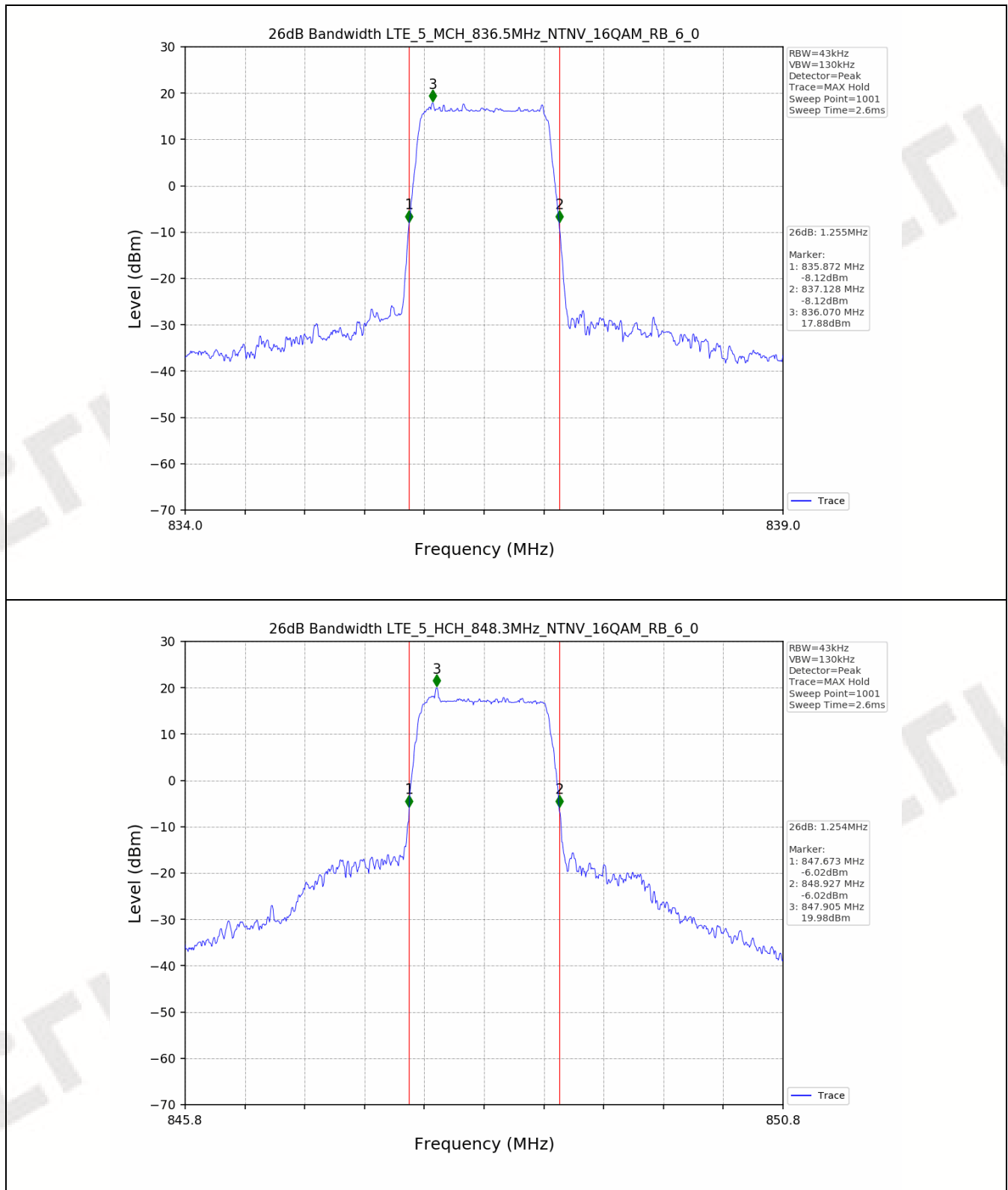




| Test Band: 5_1.4MHz Bandwidth |               |        |                      |       |       |       |         |
|-------------------------------|---------------|--------|----------------------|-------|-------|-------|---------|
| Test Mode                     | RB Allocation |        | 26dB Bandwidth (MHz) |       |       | Limit | Verdict |
|                               | Size          | Offset | LCH                  | MCH   | HCH   |       |         |
| QPSK                          | 6             | 0      | 1.265                | 1.265 | 1.276 | N/A   | PASS    |
| 16QAM                         | 6             | 0      | 1.264                | 1.255 | 1.254 | N/A   | PASS    |

## 4.2 Test Graph



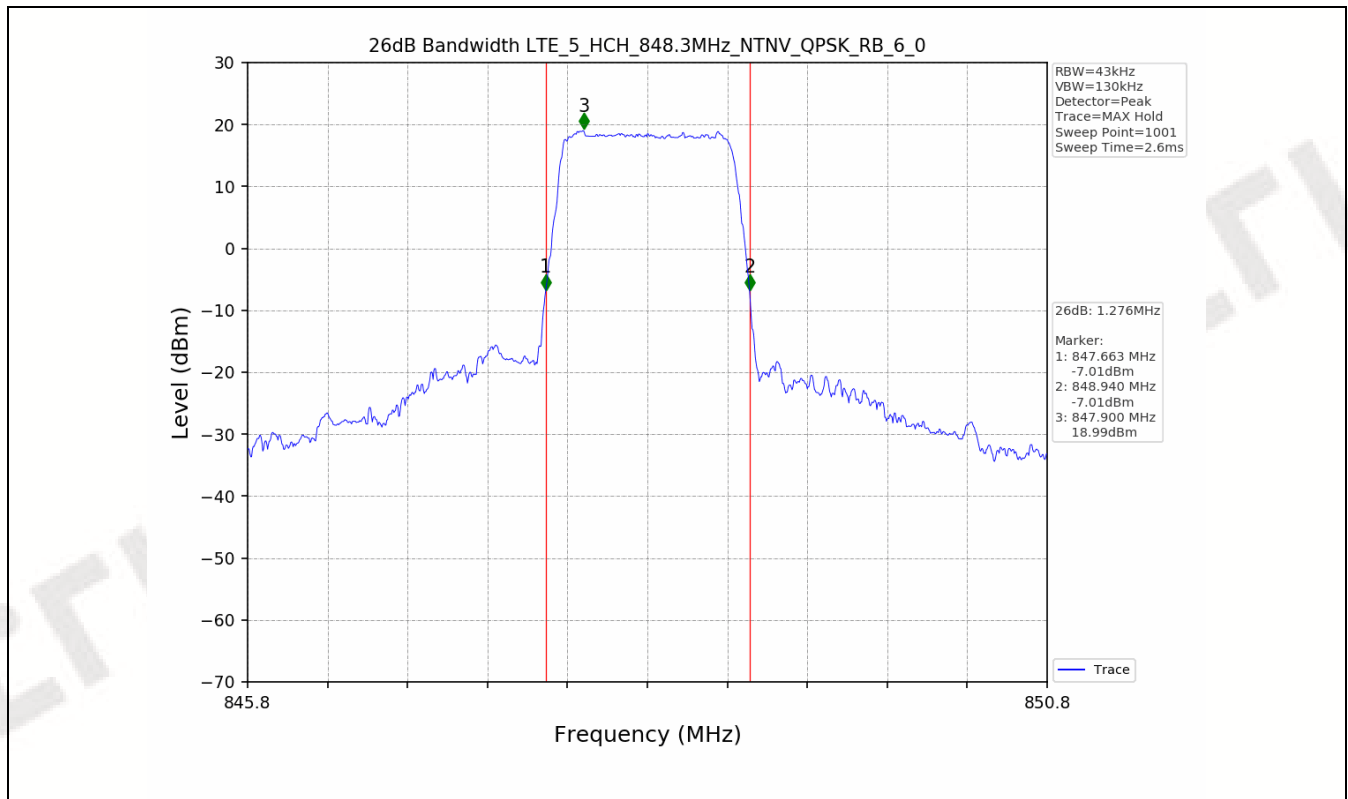






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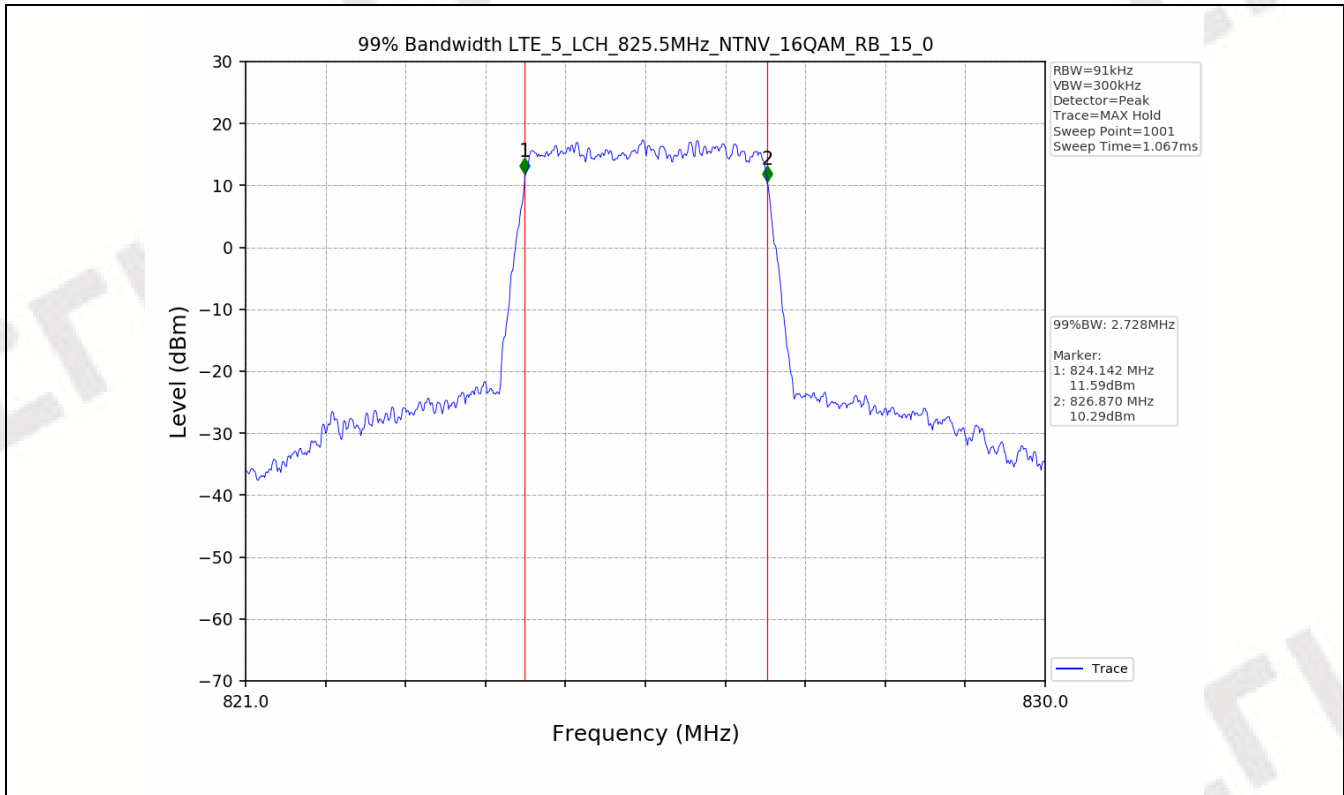


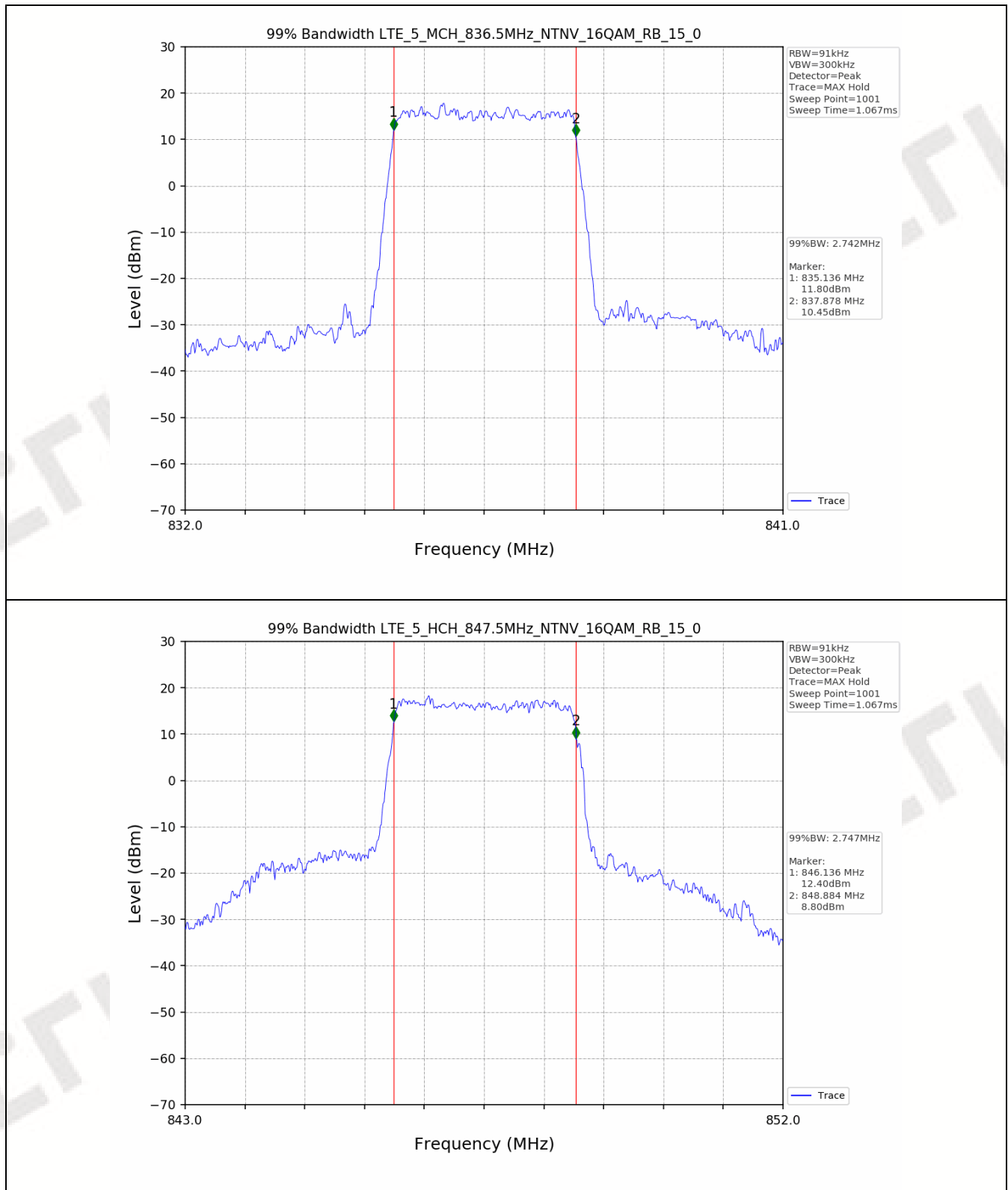
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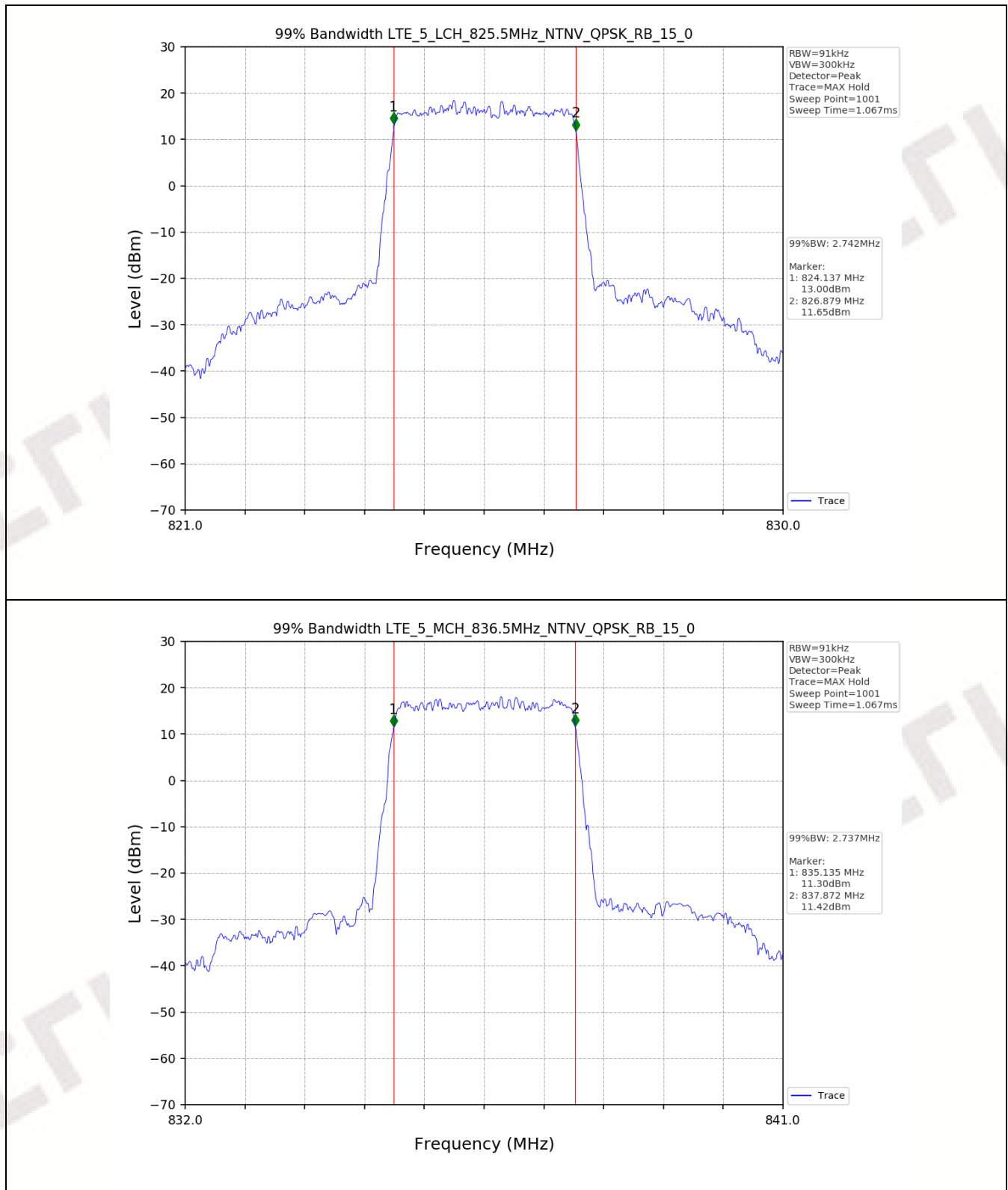
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| Test Band: 5_3MHz Bandwidth |               |        |                              |       |       |       |         |
|-----------------------------|---------------|--------|------------------------------|-------|-------|-------|---------|
| Test Mode                   | RB Allocation |        | 99% Occupied Bandwidth (MHz) |       |       | Limit | Verdict |
|                             | Size          | Offset | LCH                          | MCH   | HCH   |       |         |
| QPSK                        | 15            | 0      | 2.742                        | 2.737 | 2.747 | N/A   | PASS    |
| 16QAM                       | 15            | 0      | 2.728                        | 2.742 | 2.747 | N/A   | PASS    |

## 4.2 Test Graph



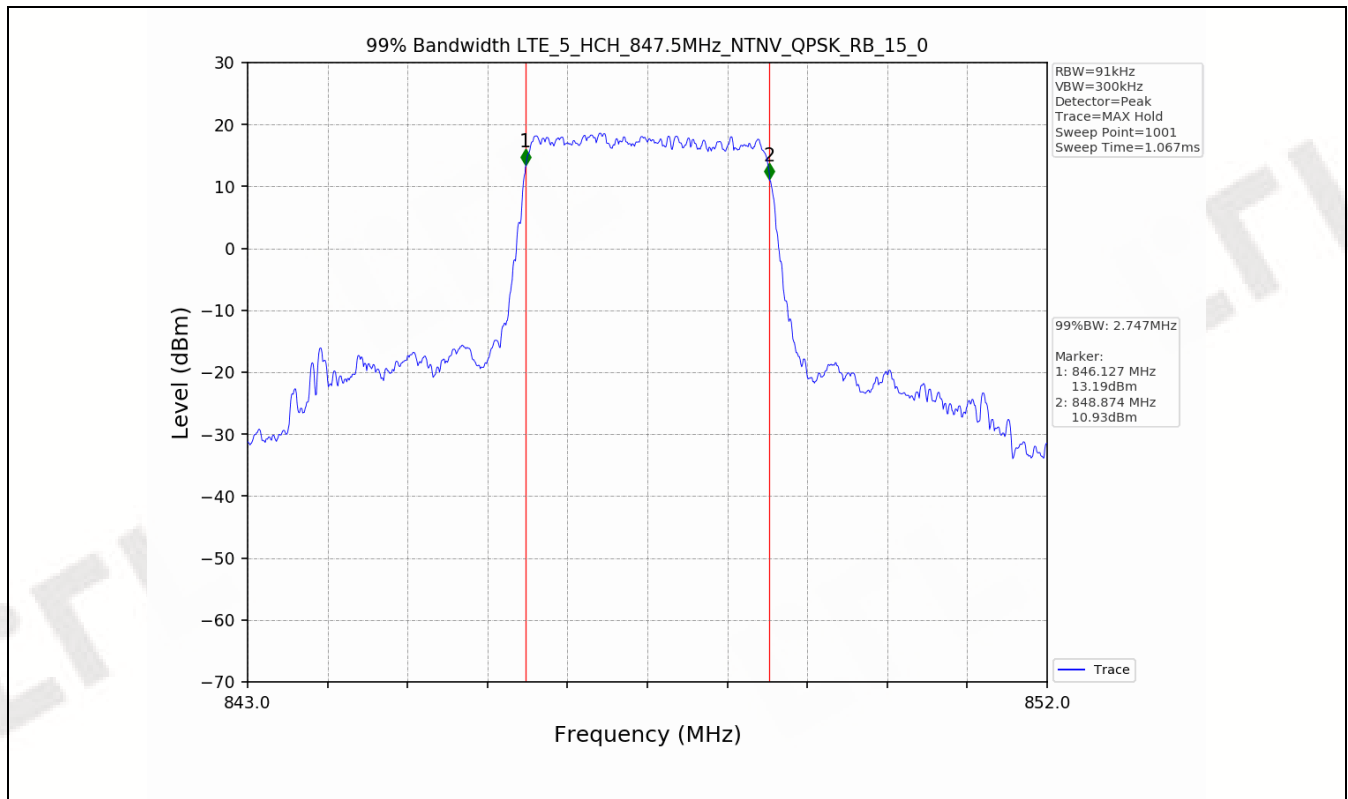






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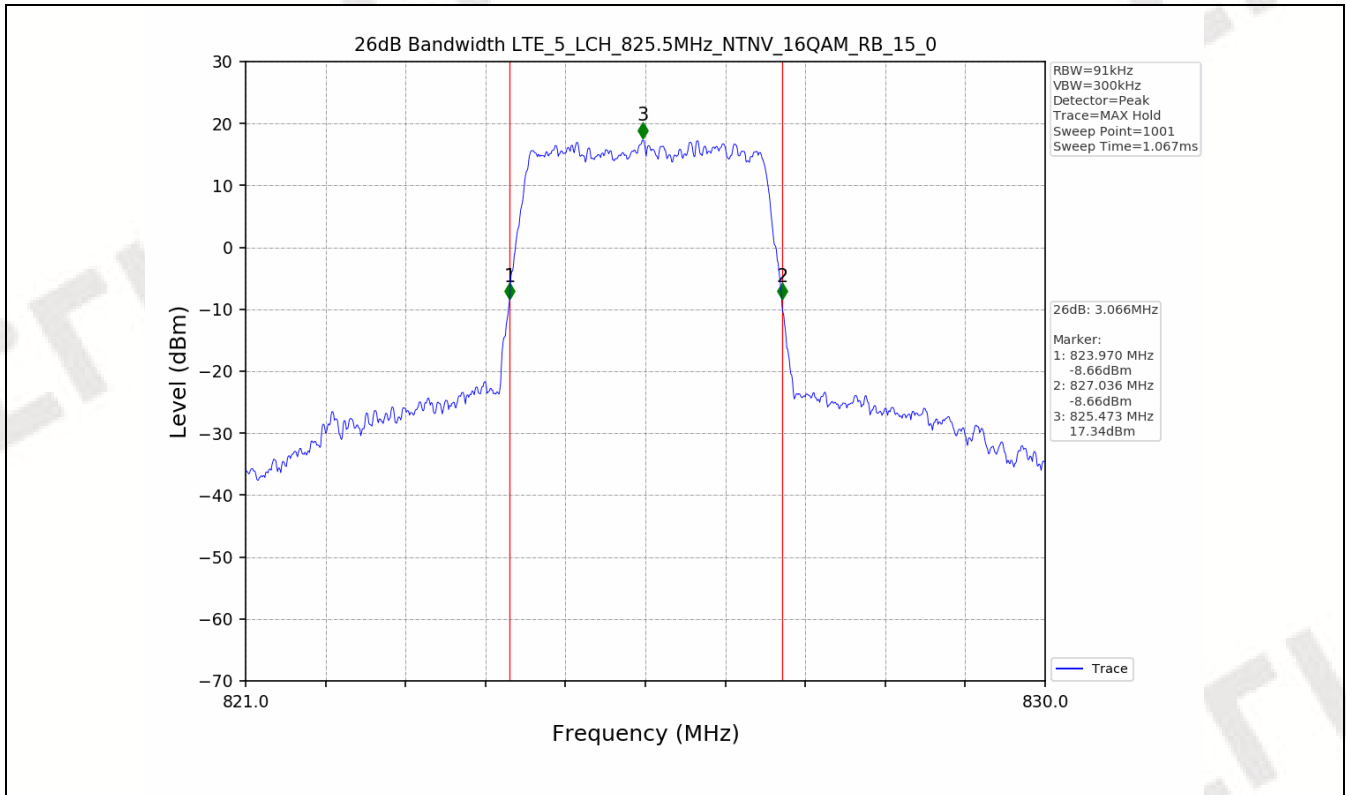


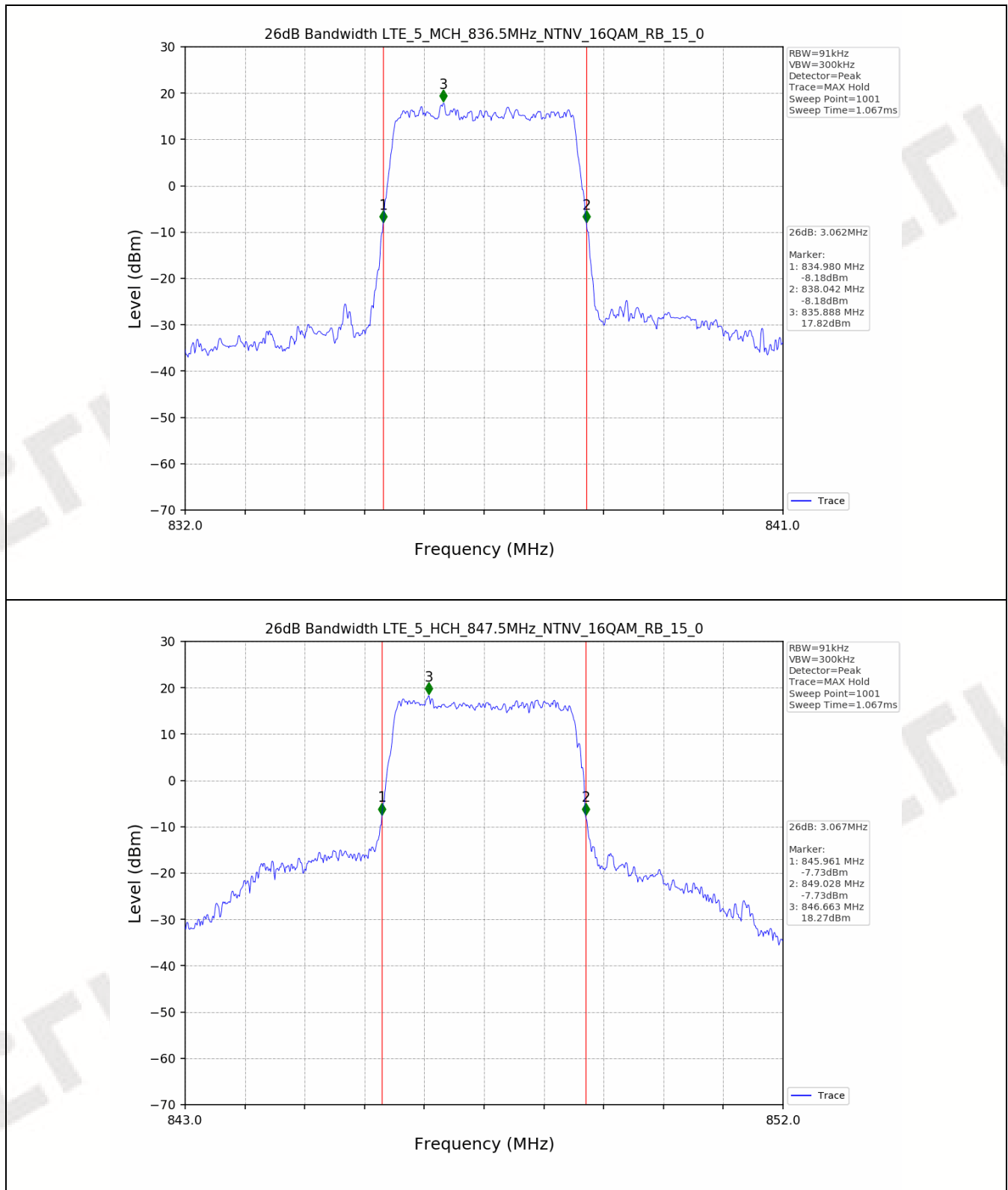
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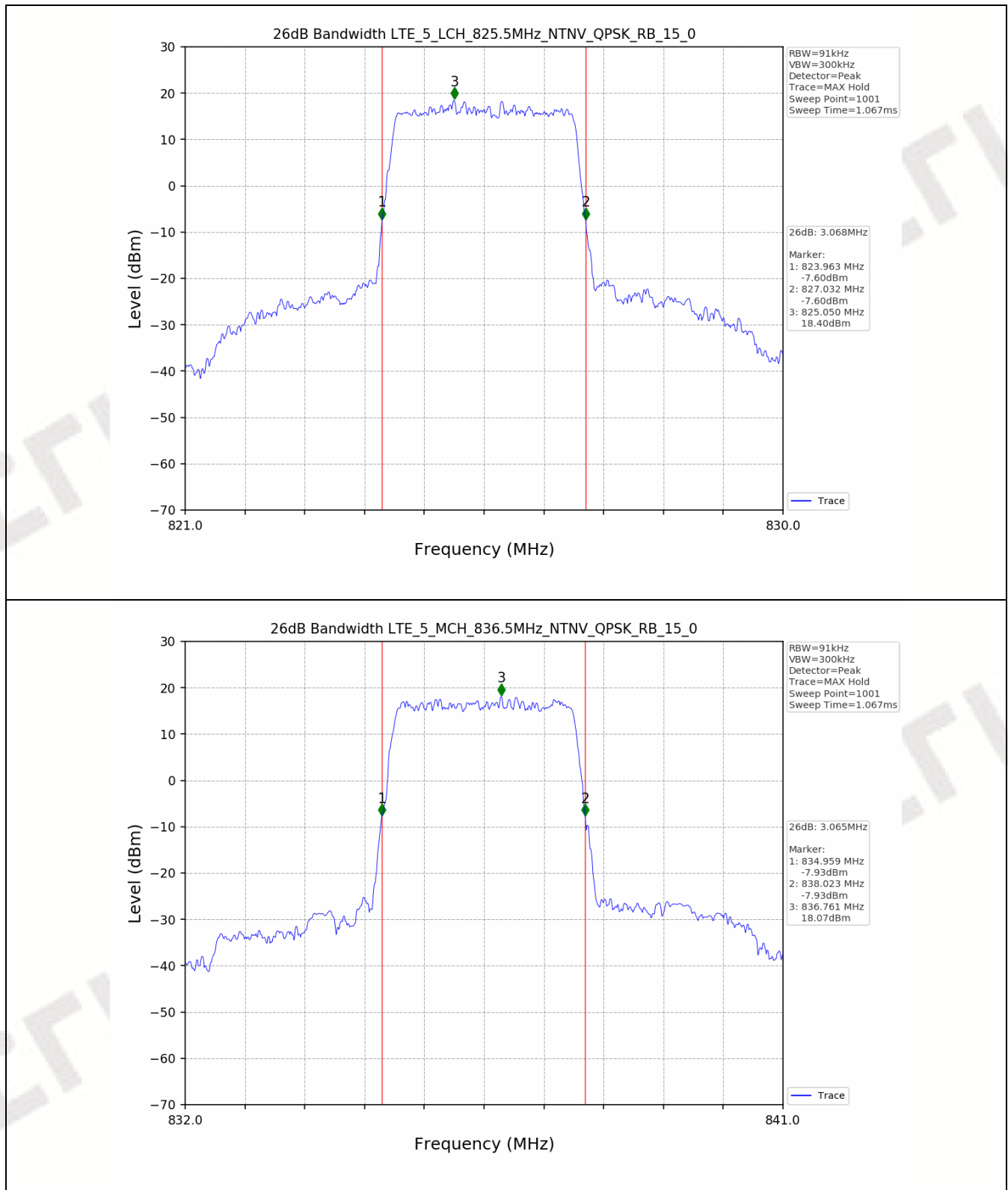
Tel: +86-755-89486194 E-mail: ctl@ctl-lab.com

| Test Band: 5_3MHz Bandwidth |               |        |                      |       |       |       |         |
|-----------------------------|---------------|--------|----------------------|-------|-------|-------|---------|
| Test Mode                   | RB Allocation |        | 26dB Bandwidth (MHz) |       |       | Limit | Verdict |
|                             | Size          | Offset | LCH                  | MCH   | HCH   |       |         |
| QPSK                        | 15            | 0      | 3.068                | 3.065 | 3.086 | N/A   | PASS    |
| 16QAM                       | 15            | 0      | 3.066                | 3.062 | 3.067 | N/A   | PASS    |

## 4.2 Test Graph



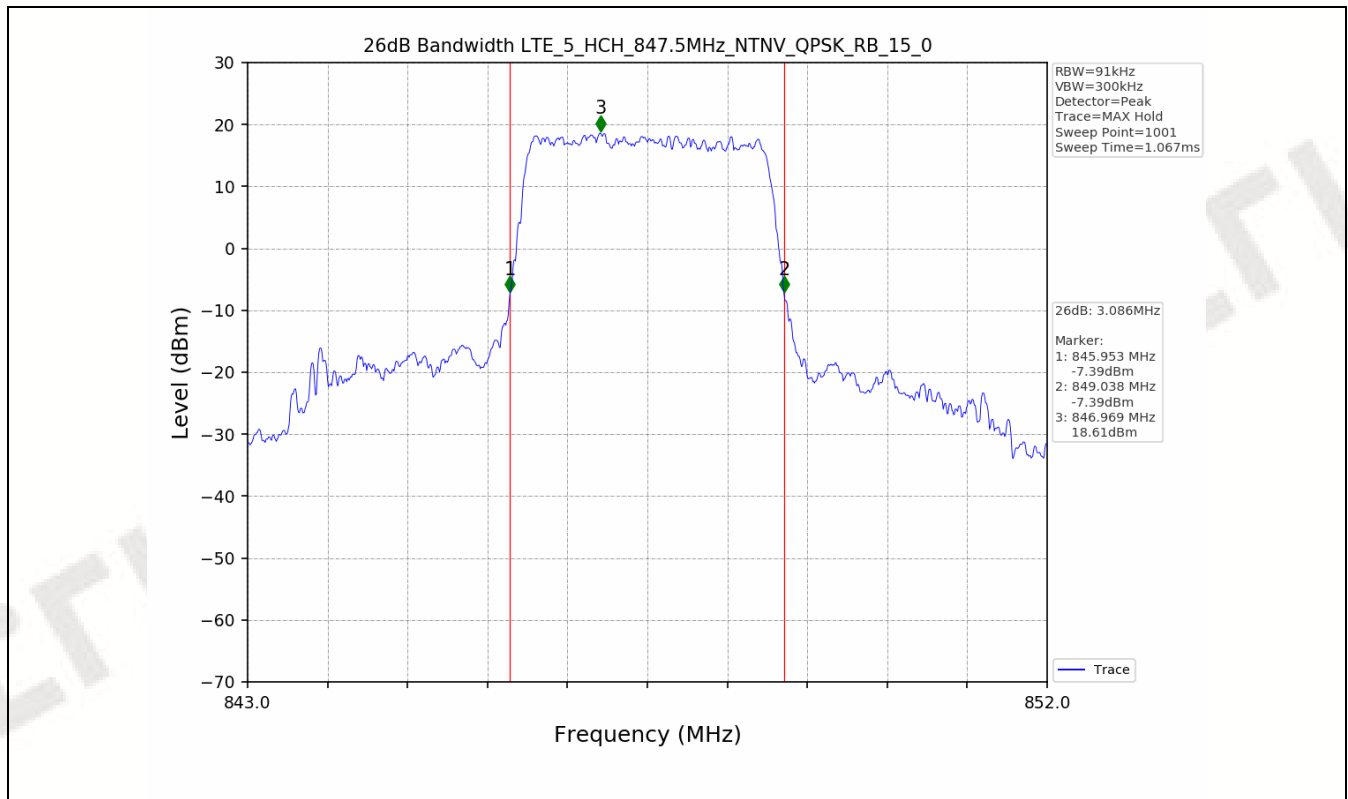






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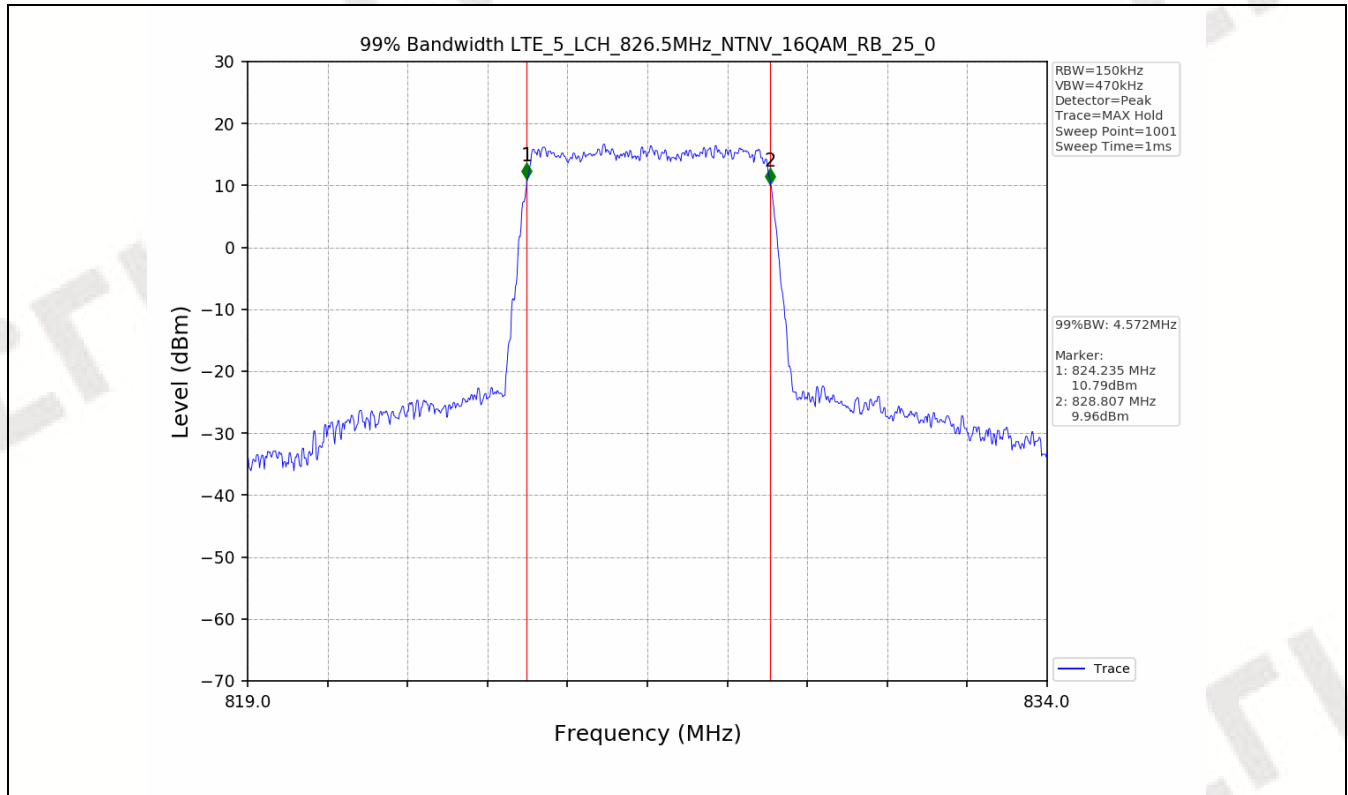
Tel: +86-755-89486194 E-mail: ctl@ctl-lab.com

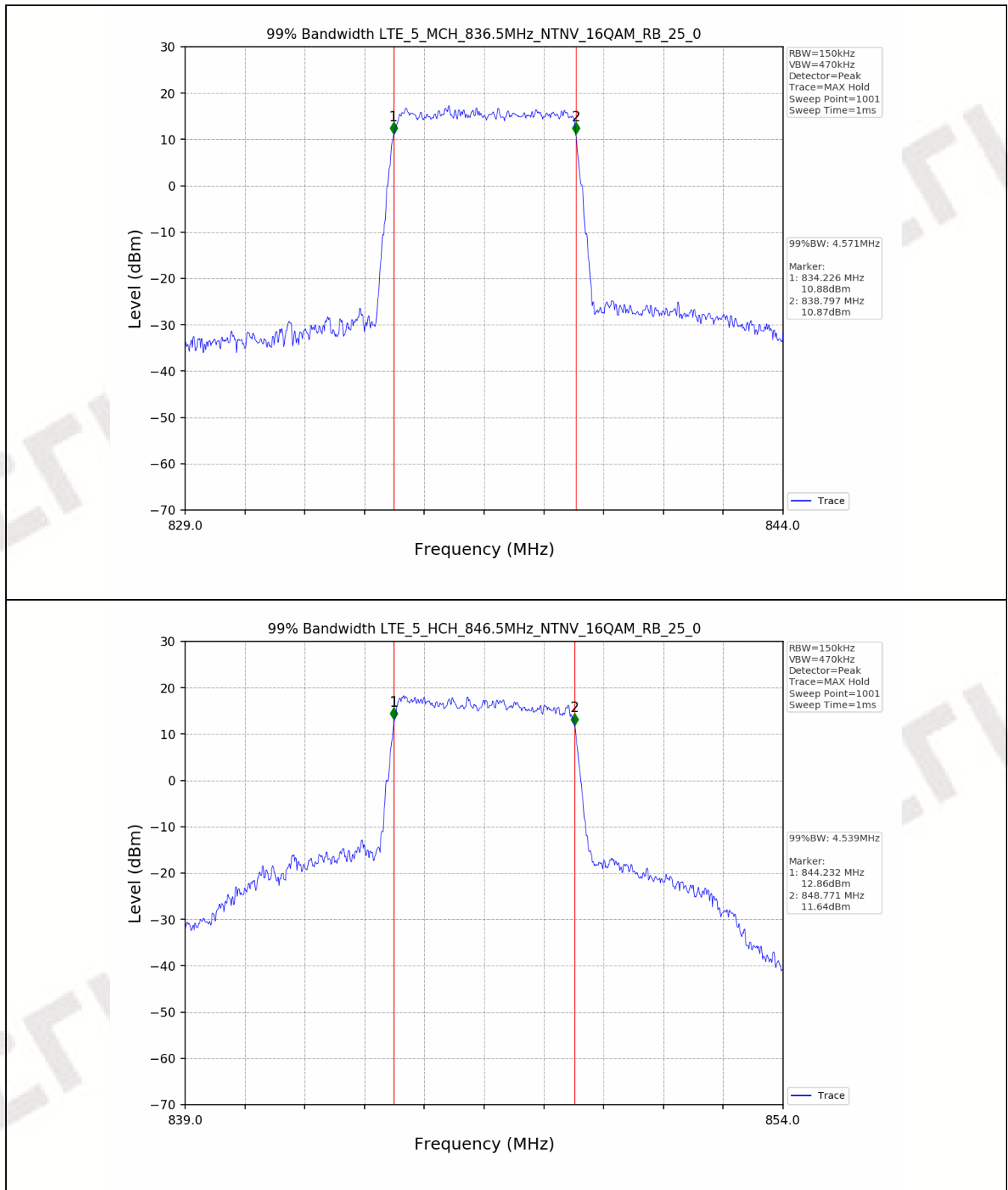


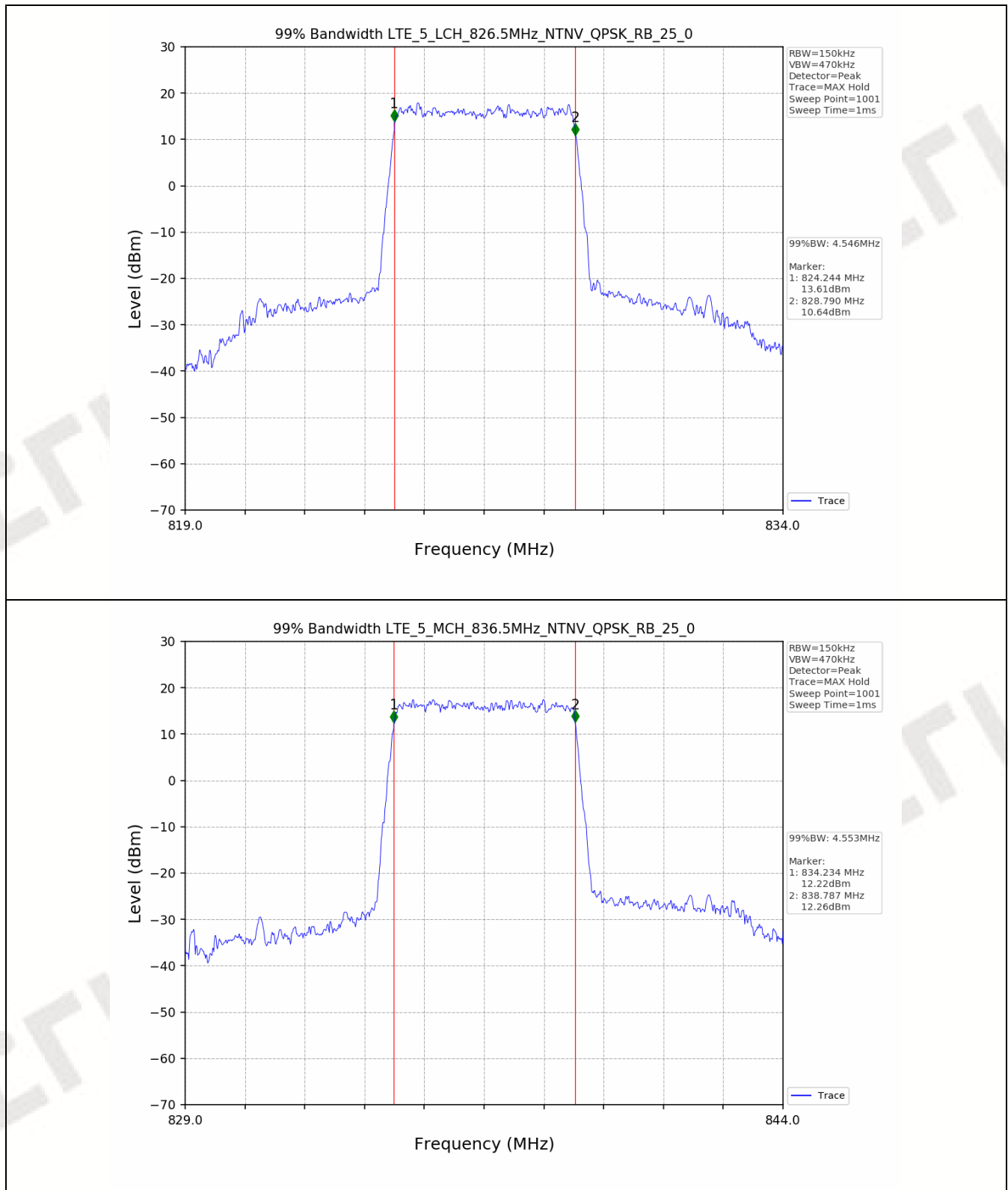


| Test Band: 5_5MHz Bandwidth |               |        |                              |       |       |       |         |
|-----------------------------|---------------|--------|------------------------------|-------|-------|-------|---------|
| Test Mode                   | RB Allocation |        | 99% Occupied Bandwidth (MHz) |       |       | Limit | Verdict |
|                             | Size          | Offset | LCH                          | MCH   | HCH   |       |         |
| QPSK                        | 25            | 0      | 4.546                        | 4.553 | 4.543 | N/A   | PASS    |
| 16QAM                       | 25            | 0      | 4.572                        | 4.571 | 4.539 | N/A   | PASS    |

## 4.2 Test Graph



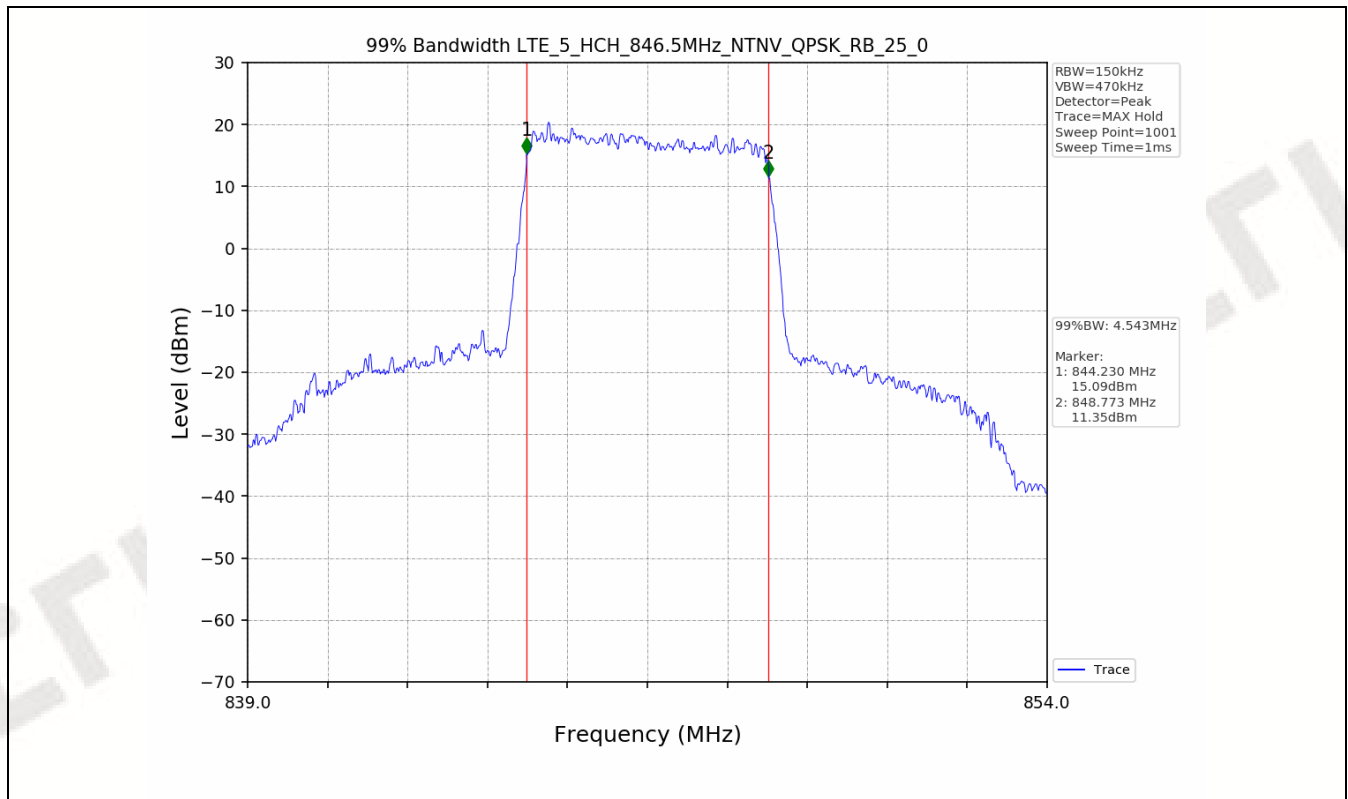






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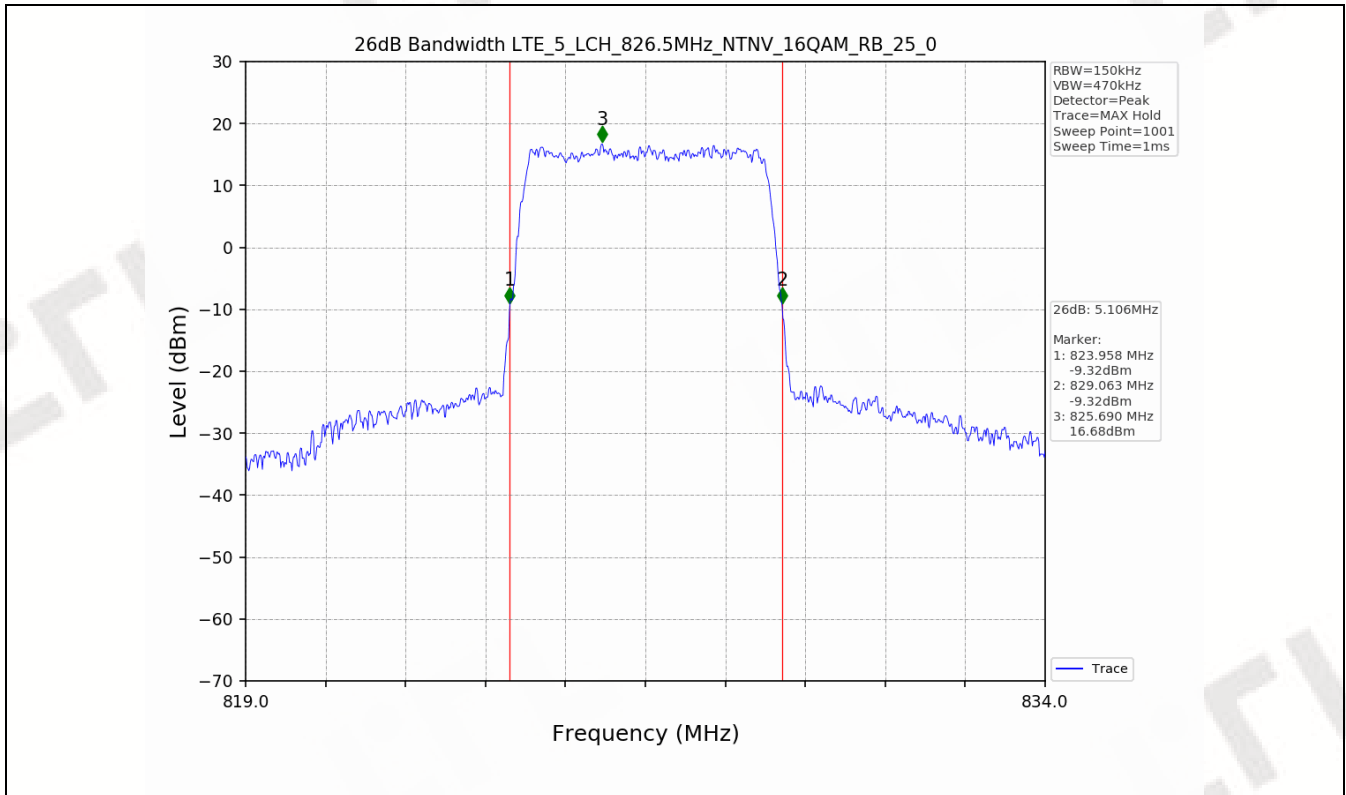
Tel: +86-755-89486194 E-mail: ctl@ctl-lab.com

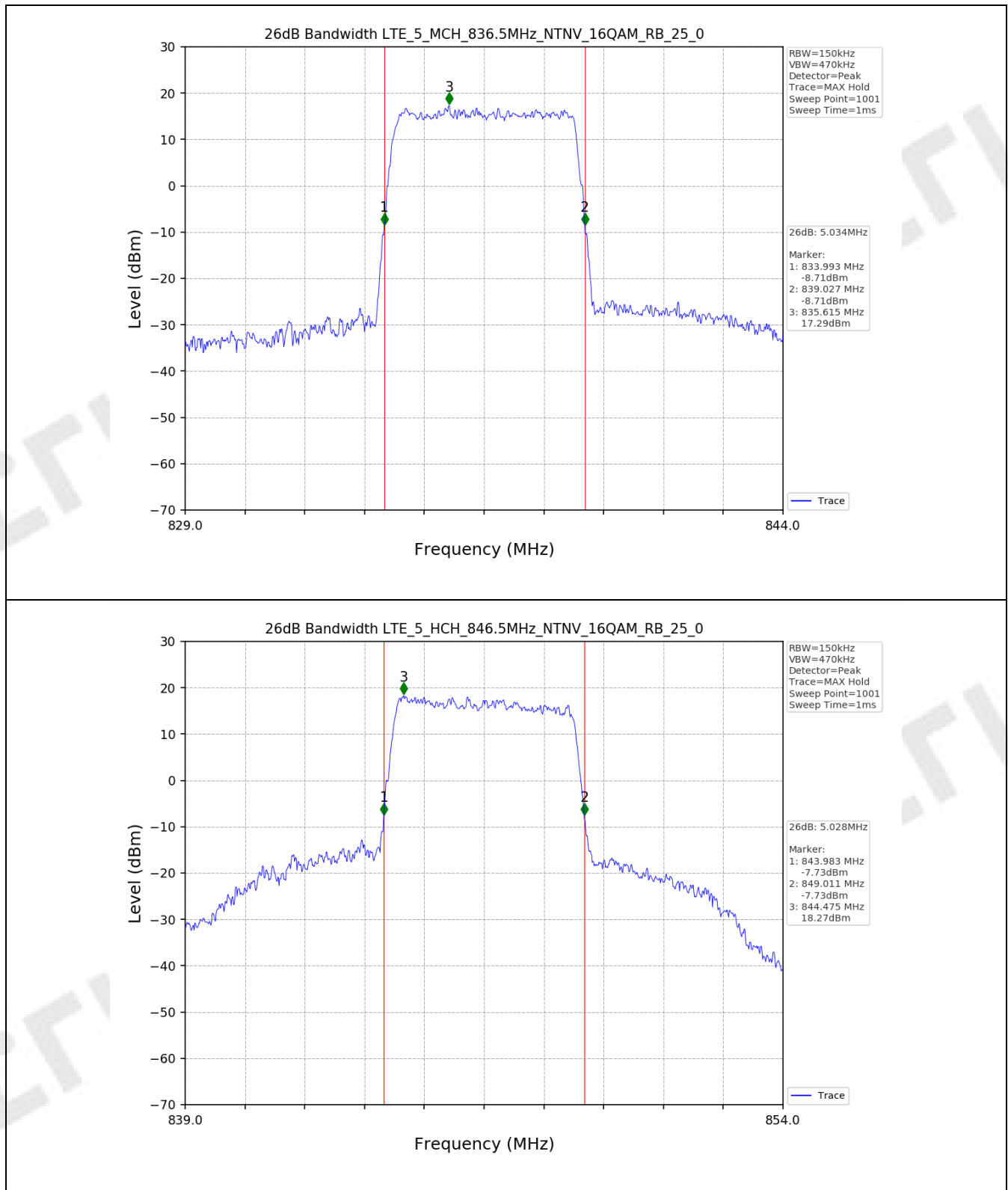


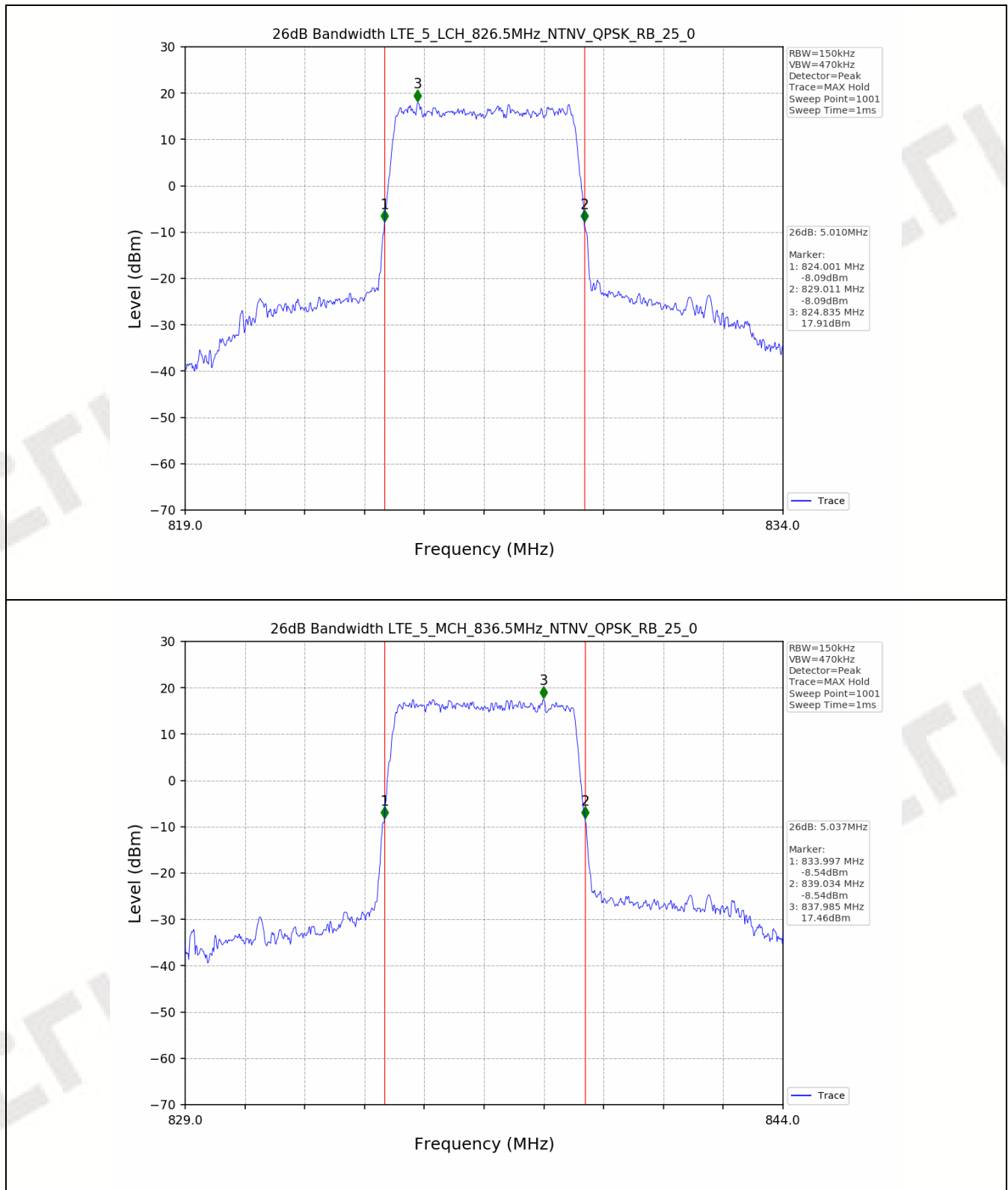


| Test Band: 5_5MHz Bandwidth |               |        |                      |       |       |       |         |
|-----------------------------|---------------|--------|----------------------|-------|-------|-------|---------|
| Test Mode                   | RB Allocation |        | 26dB Bandwidth (MHz) |       |       | Limit | Verdict |
|                             | Size          | Offset | LCH                  | MCH   | HCH   |       |         |
| QPSK                        | 25            | 0      | 5.010                | 5.037 | 5.029 | N/A   | PASS    |
| 16QAM                       | 25            | 0      | 5.106                | 5.034 | 5.028 | N/A   | PASS    |

## 4.2 Test Graph



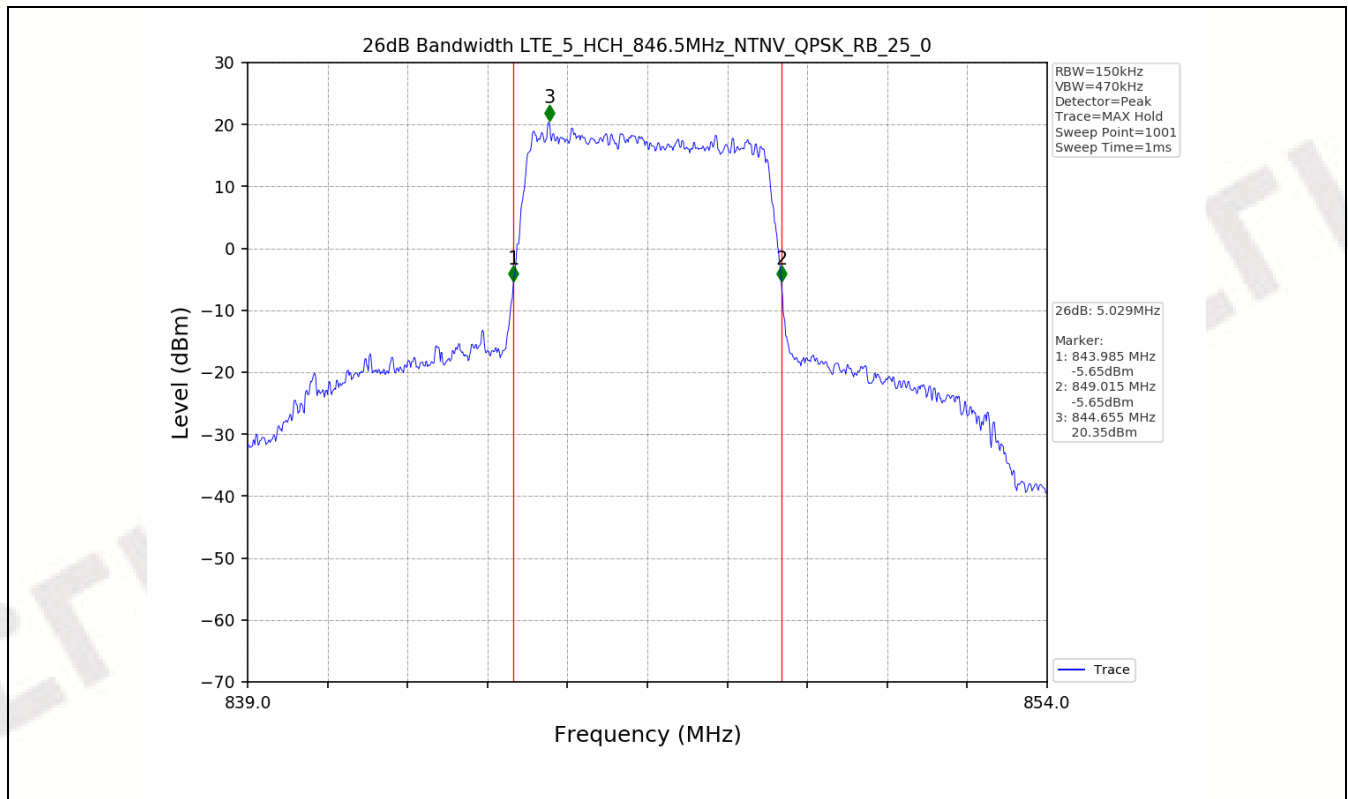






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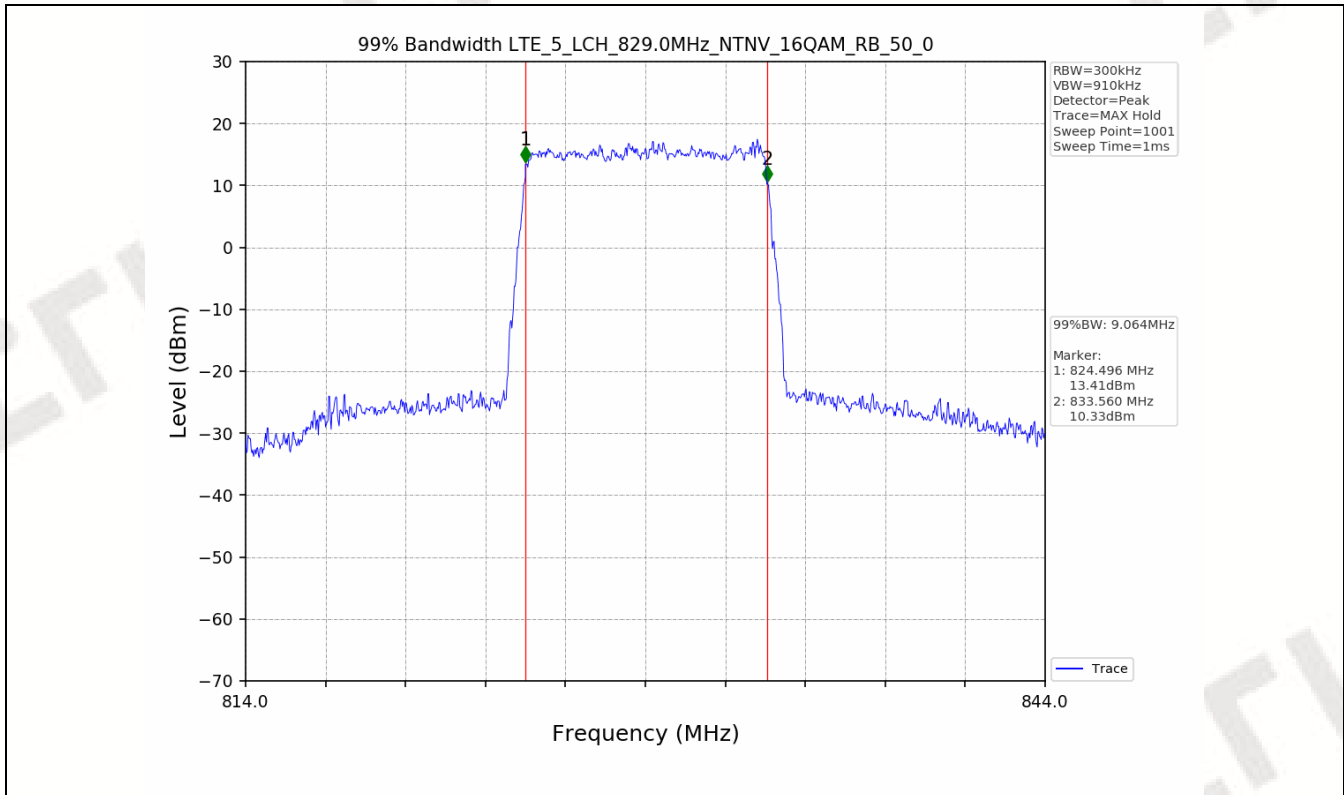
Tel: +86-755-89486194 E-mail: ctl@ctl-lab.com

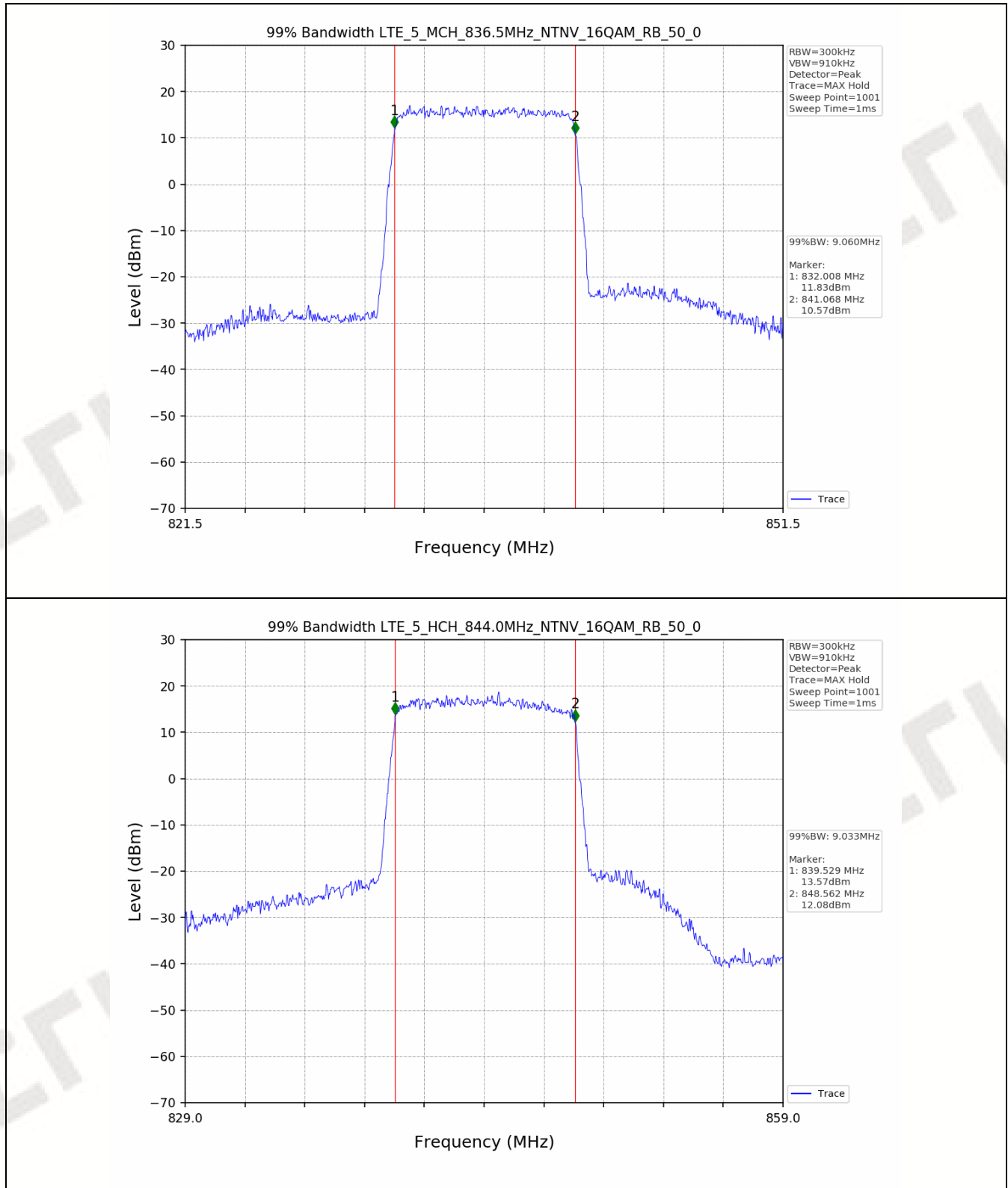


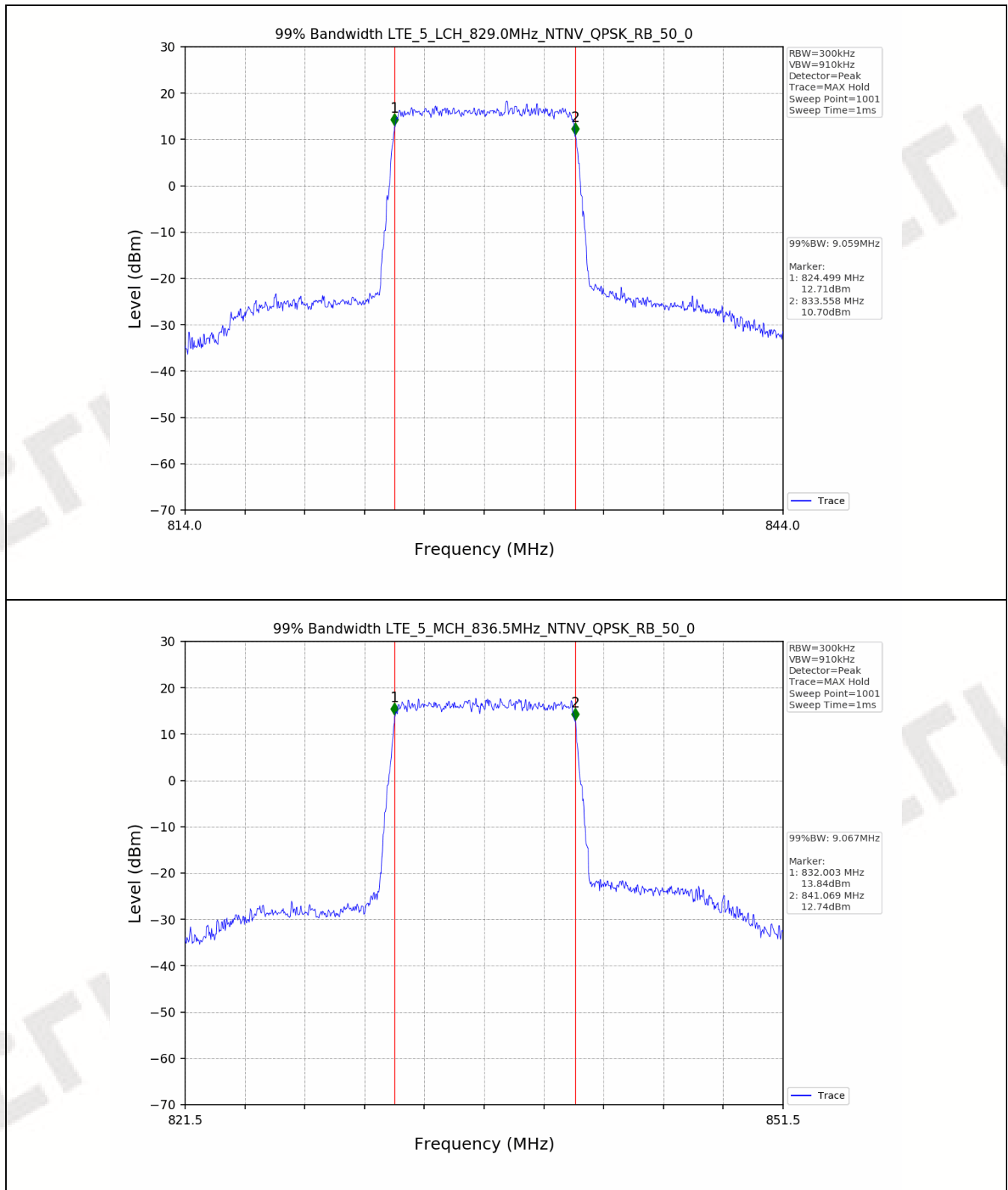


| Test Band: 5_10MHz Bandwidth |               |        |                              |       |       |       |         |
|------------------------------|---------------|--------|------------------------------|-------|-------|-------|---------|
| Test Mode                    | RB Allocation |        | 99% Occupied Bandwidth (MHz) |       |       | Limit | Verdict |
|                              | Size          | Offset | LCH                          | MCH   | HCH   |       |         |
| QPSK                         | 50            | 0      | 9.059                        | 9.067 | 8.996 | N/A   | PASS    |
| 16QAM                        | 50            | 0      | 9.064                        | 9.060 | 9.033 | N/A   | PASS    |

## 4.2 Test Graph



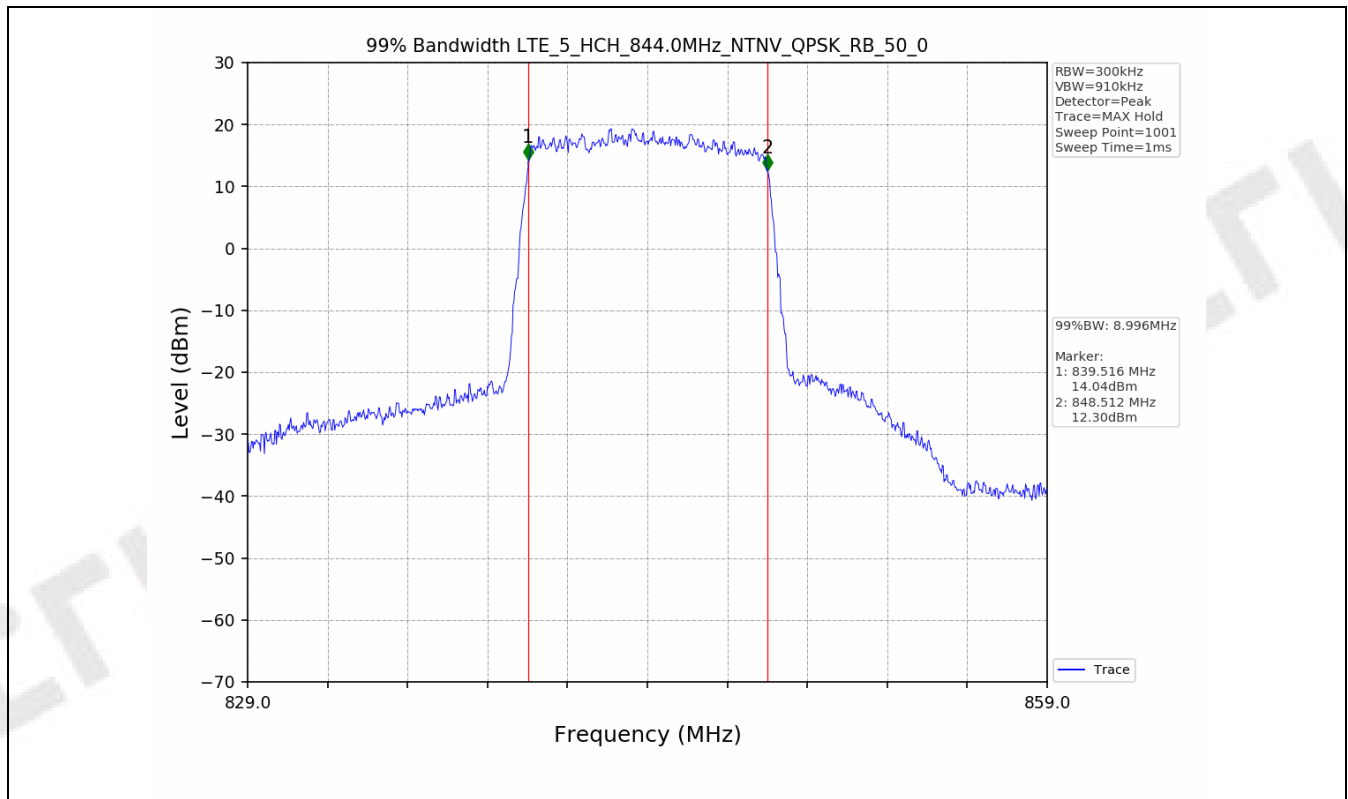






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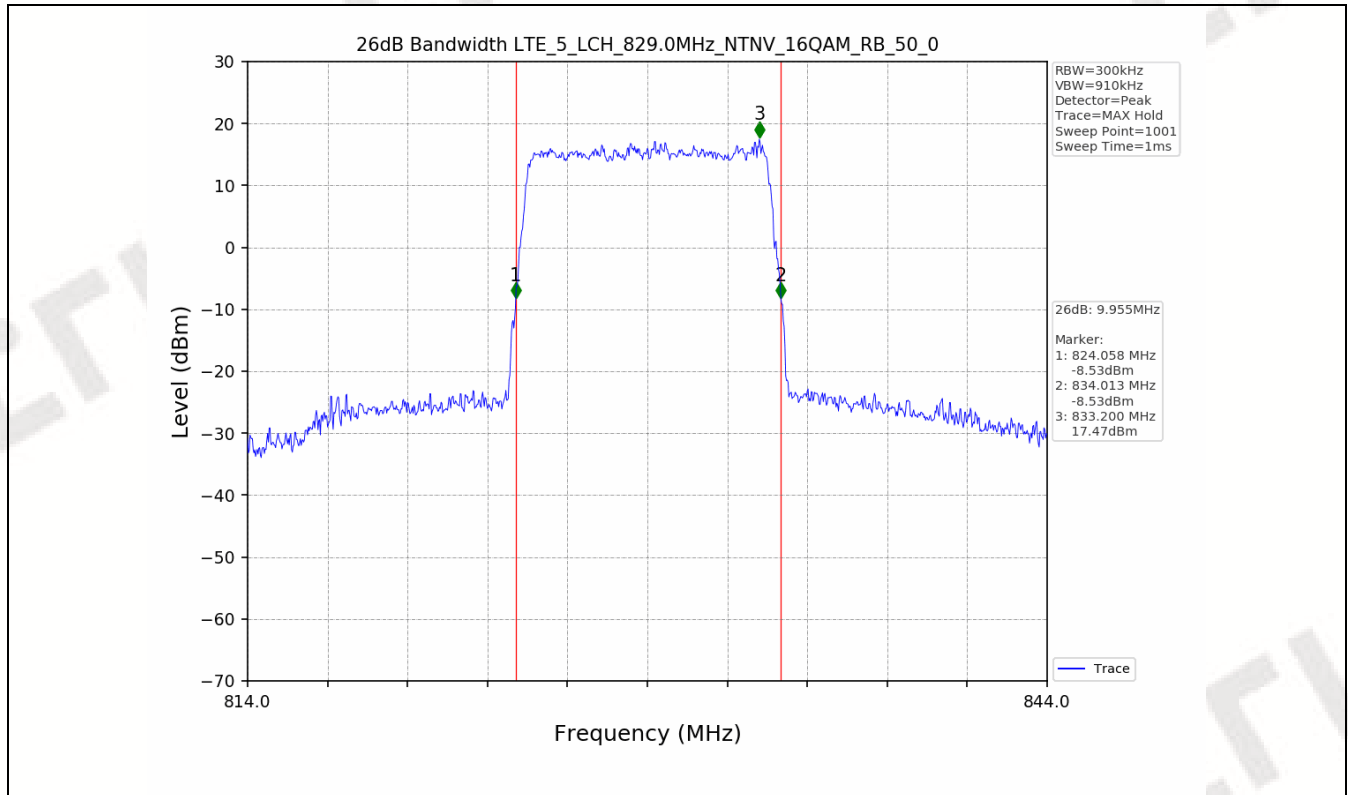


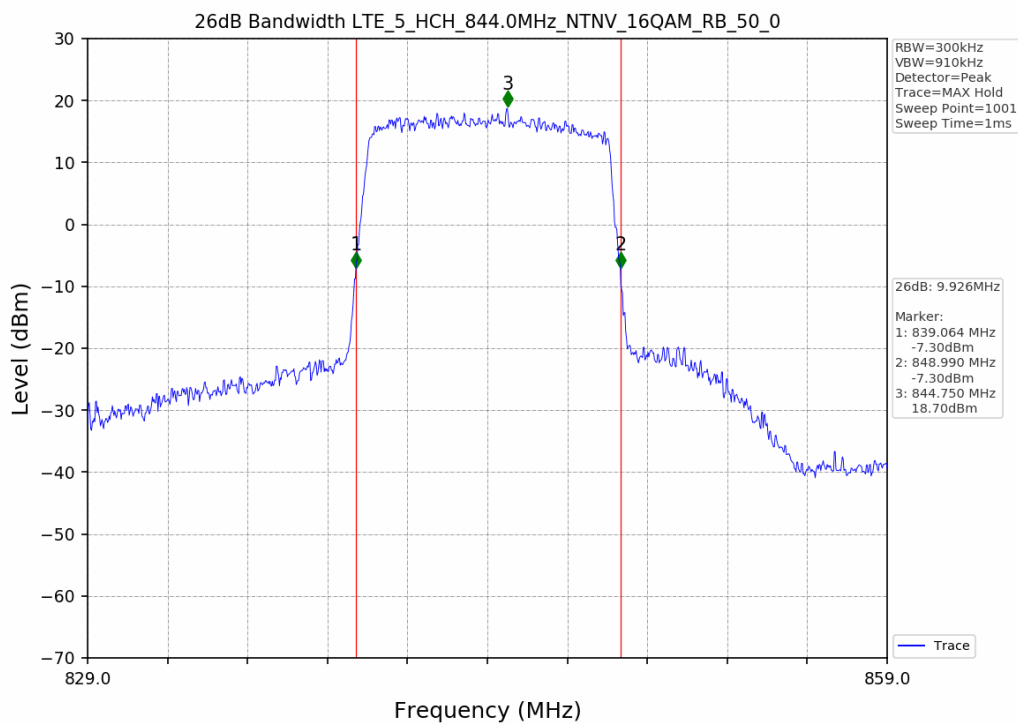
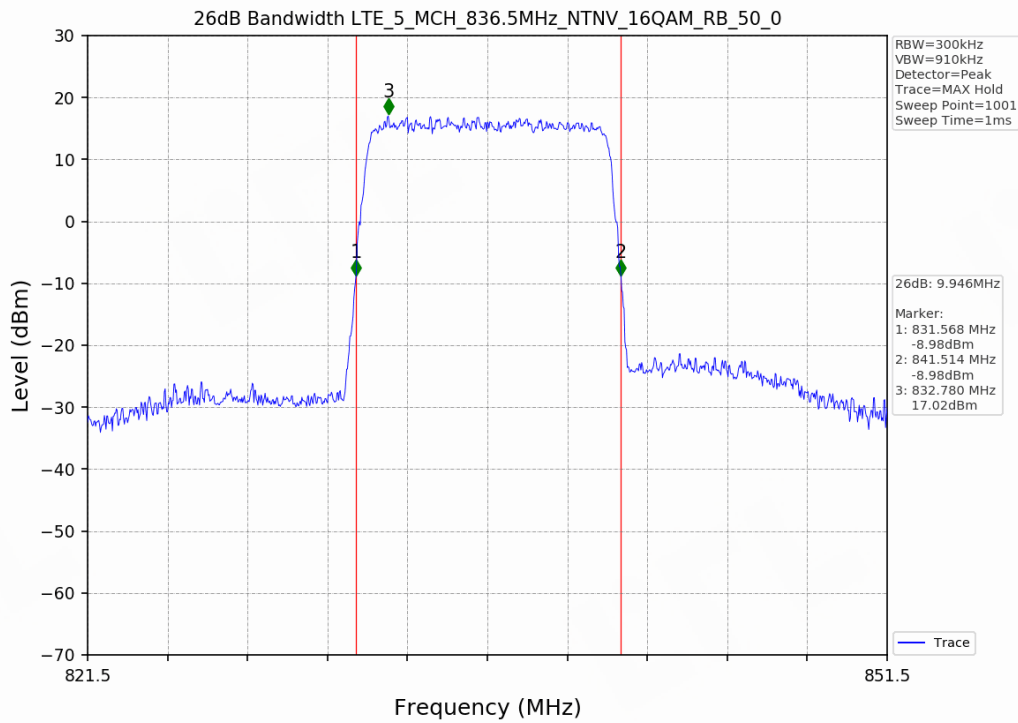
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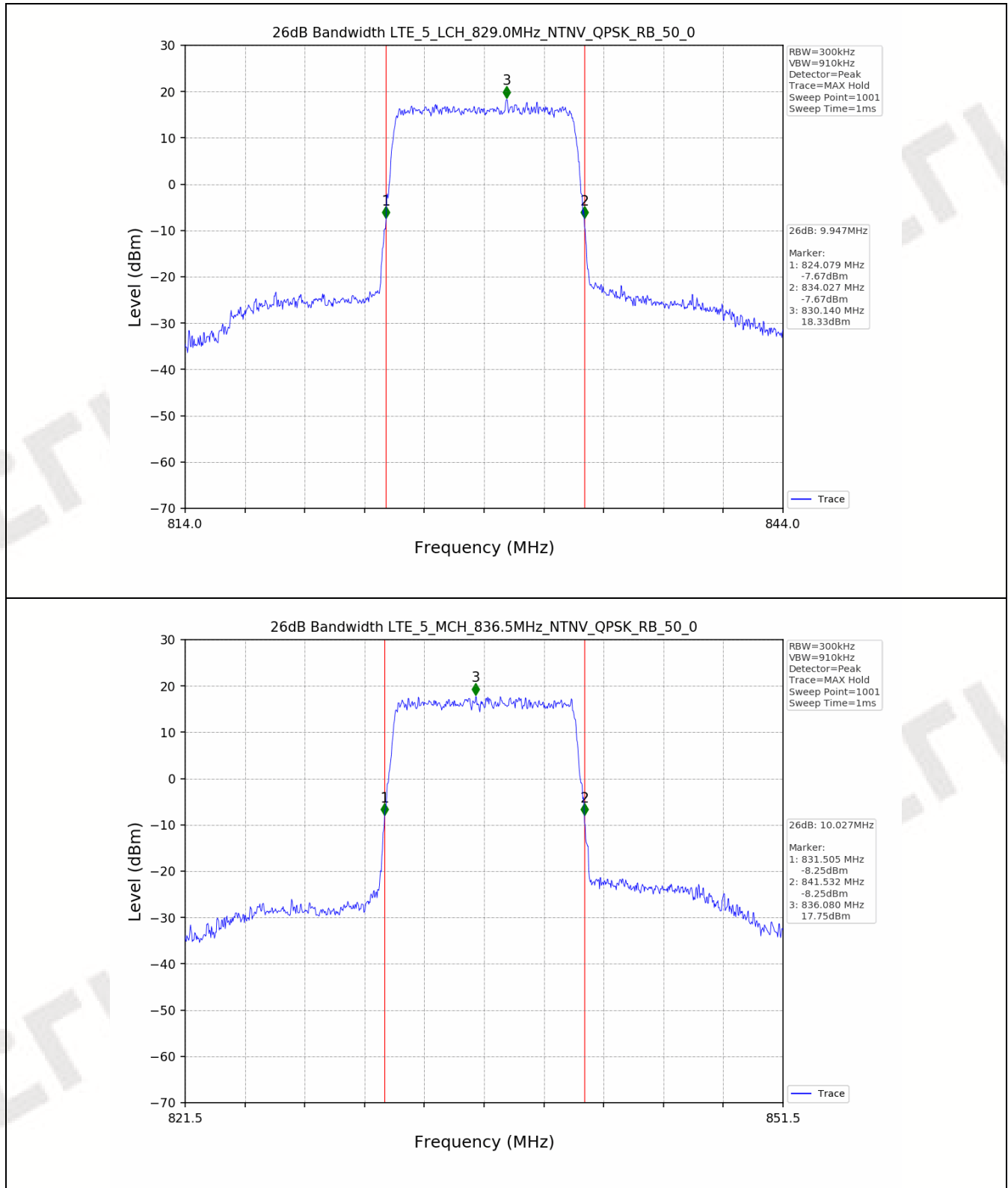
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| Test Band: 5_10MHz Bandwidth |               |        |                      |        |       |       |         |
|------------------------------|---------------|--------|----------------------|--------|-------|-------|---------|
| Test Mode                    | RB Allocation |        | 26dB Bandwidth (MHz) |        |       | Limit | Verdict |
|                              | Size          | Offset | LCH                  | MCH    | HCH   |       |         |
| QPSK                         | 50            | 0      | 9.947                | 10.027 | 9.960 | N/A   | PASS    |
| 16QAM                        | 50            | 0      | 9.955                | 9.946  | 9.926 | N/A   | PASS    |

## 4.2 Test Graph



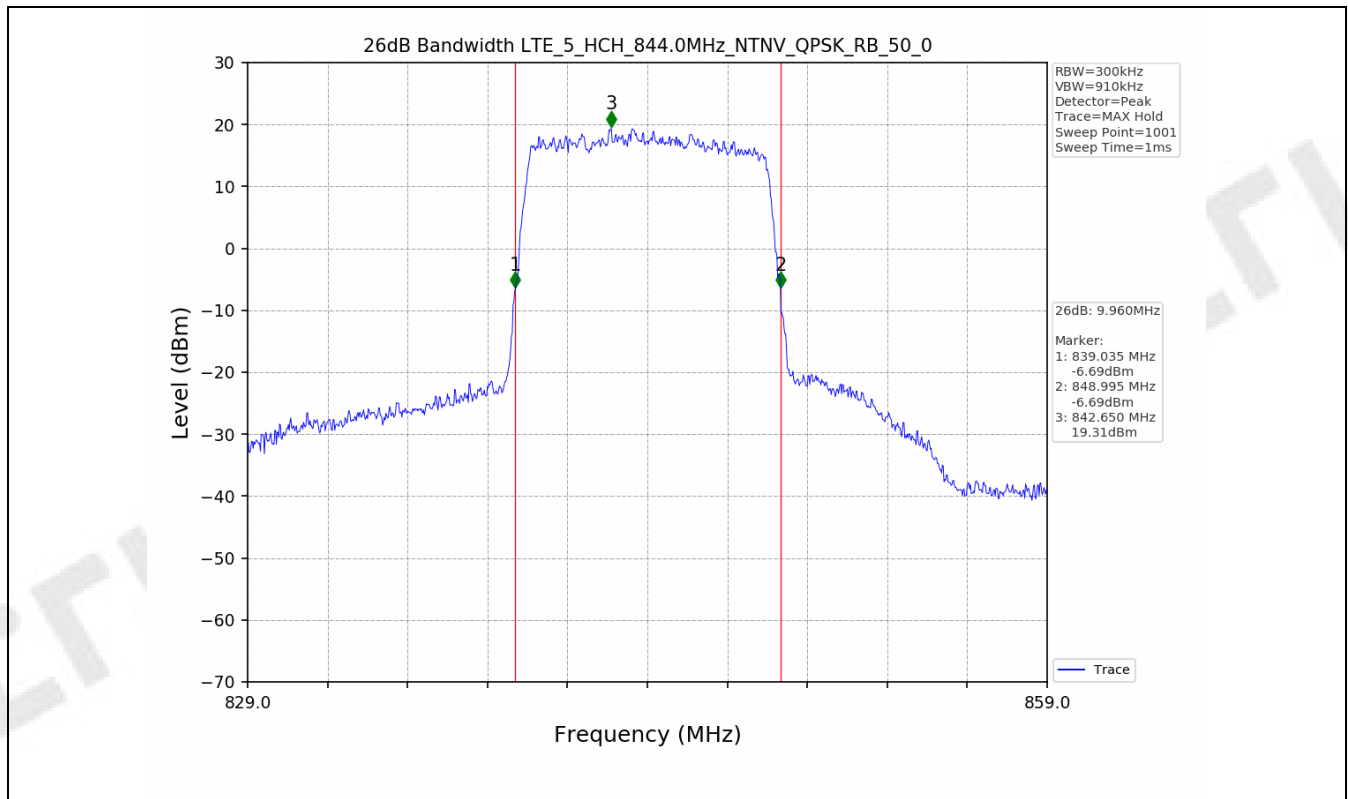






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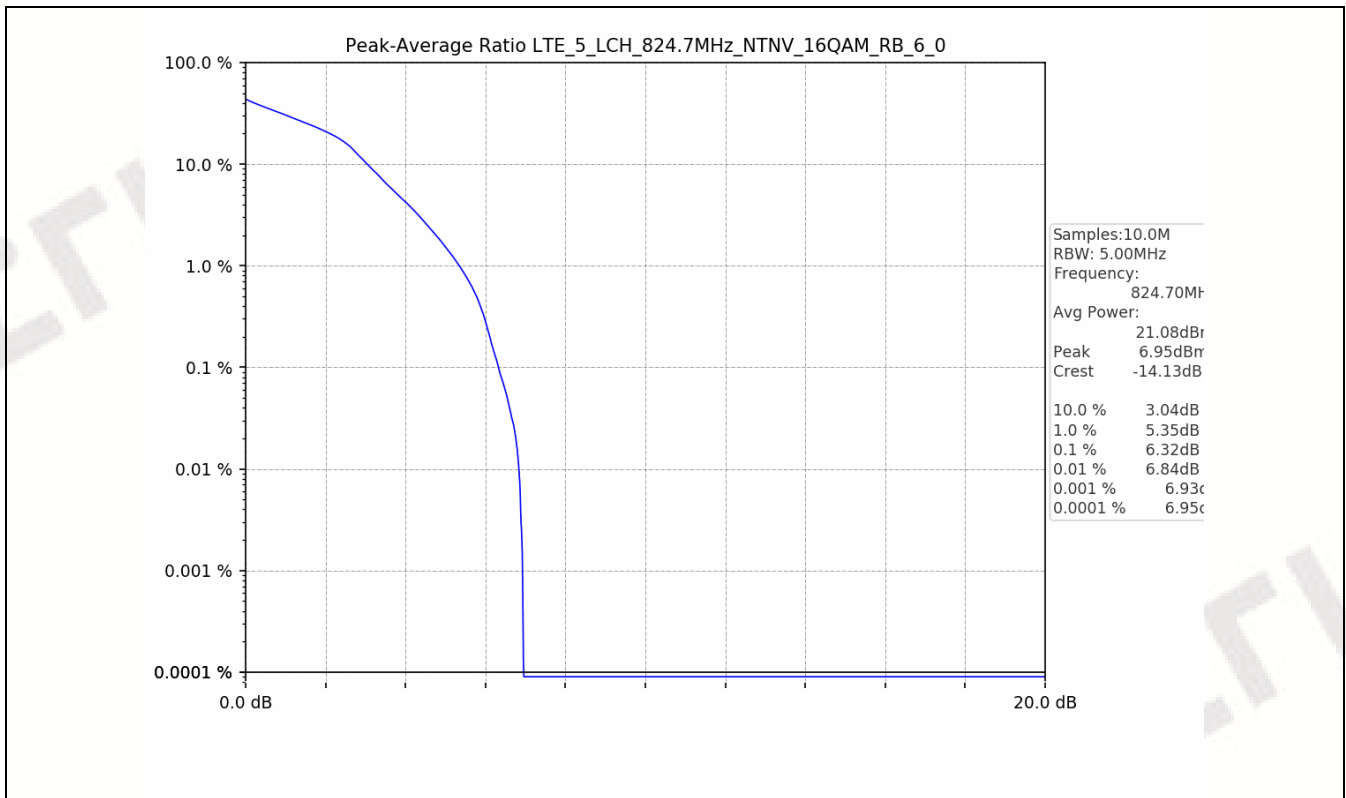


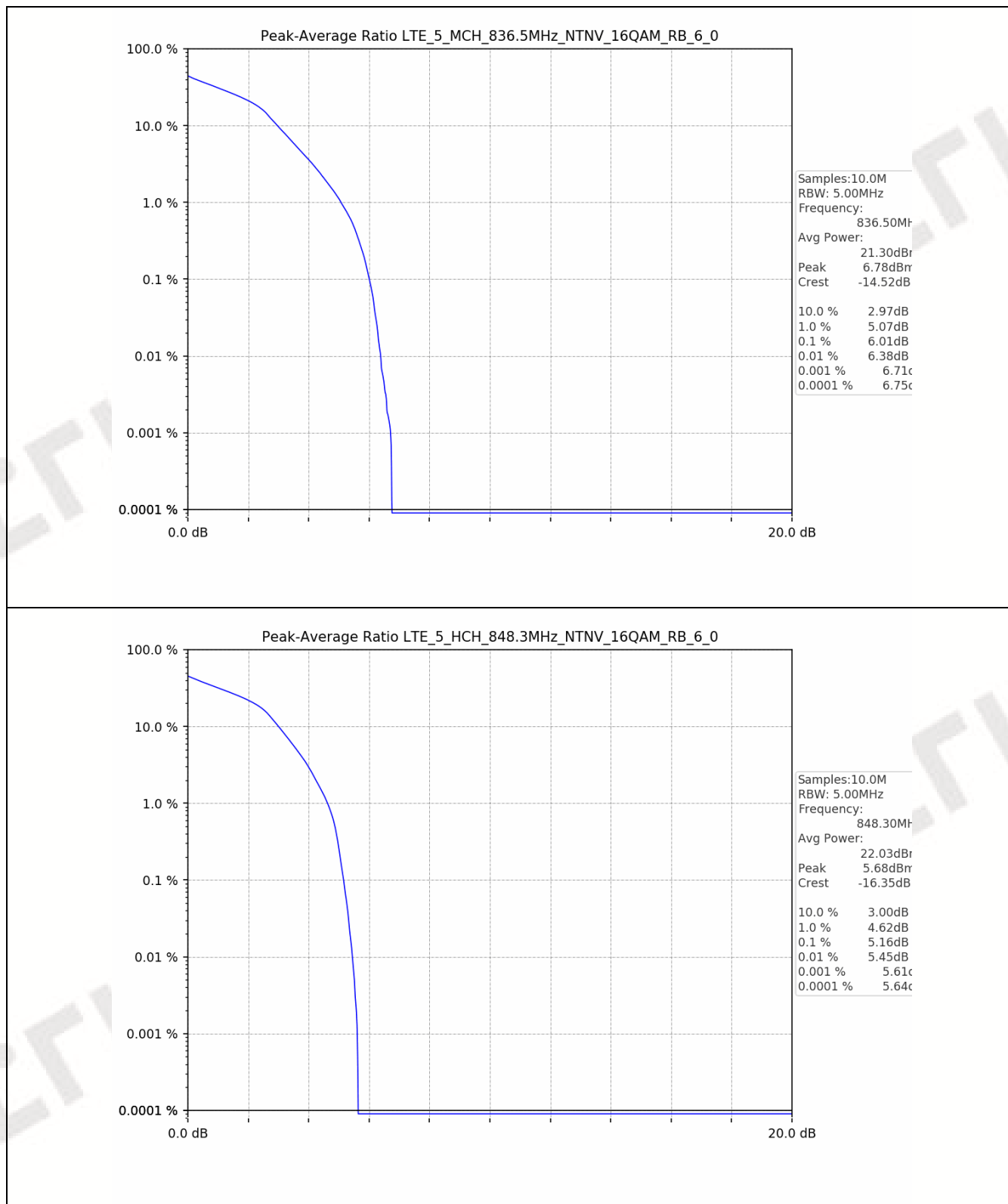
## 5. Peak-Average Ratio

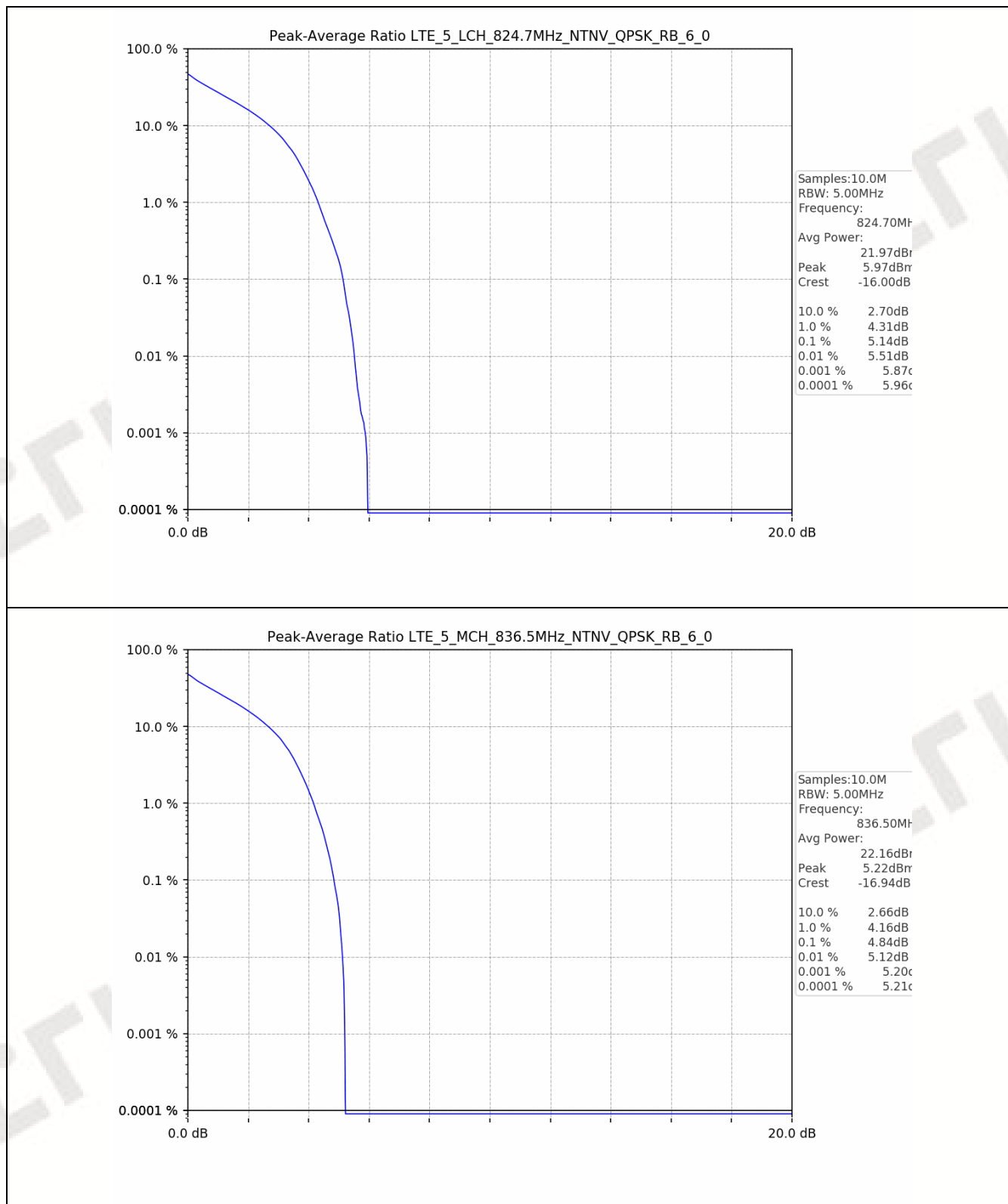
### 5.1 Test Result

| Test Band: 5_1.4MHz Bandwidth |               |        |                  |      |      |            |         |
|-------------------------------|---------------|--------|------------------|------|------|------------|---------|
| Test Mode                     | RB Allocation |        | Test result (dB) |      |      | Limit (dB) | Verdict |
|                               | Size          | Offset | LCH              | MCH  | HCH  |            |         |
| QPSK                          | 6             | 0      | 5.14             | 4.84 | 8.21 | 13         | PASS    |
| 16QAM                         | 6             | 0      | 6.32             | 6.01 | 5.16 | 13         | PASS    |

### 5.2 Test Graph



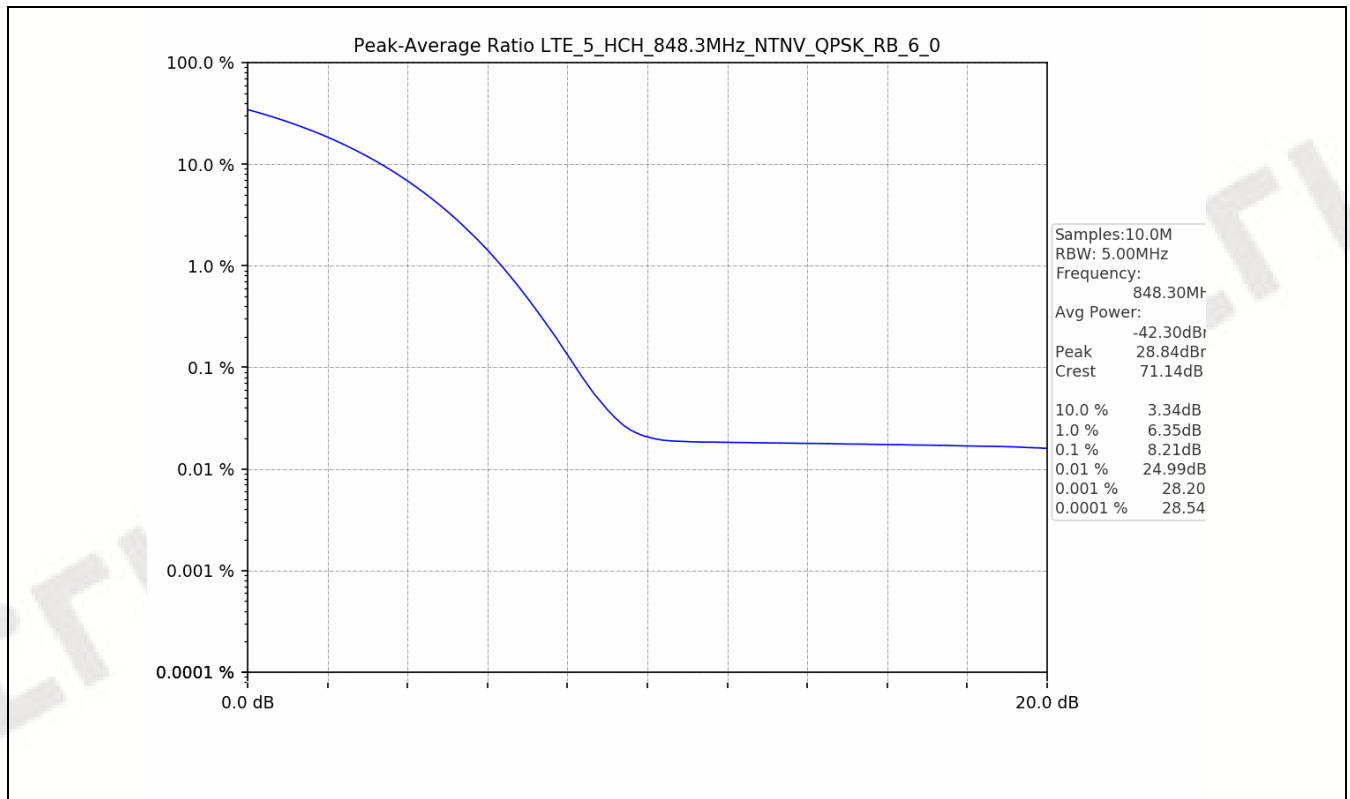






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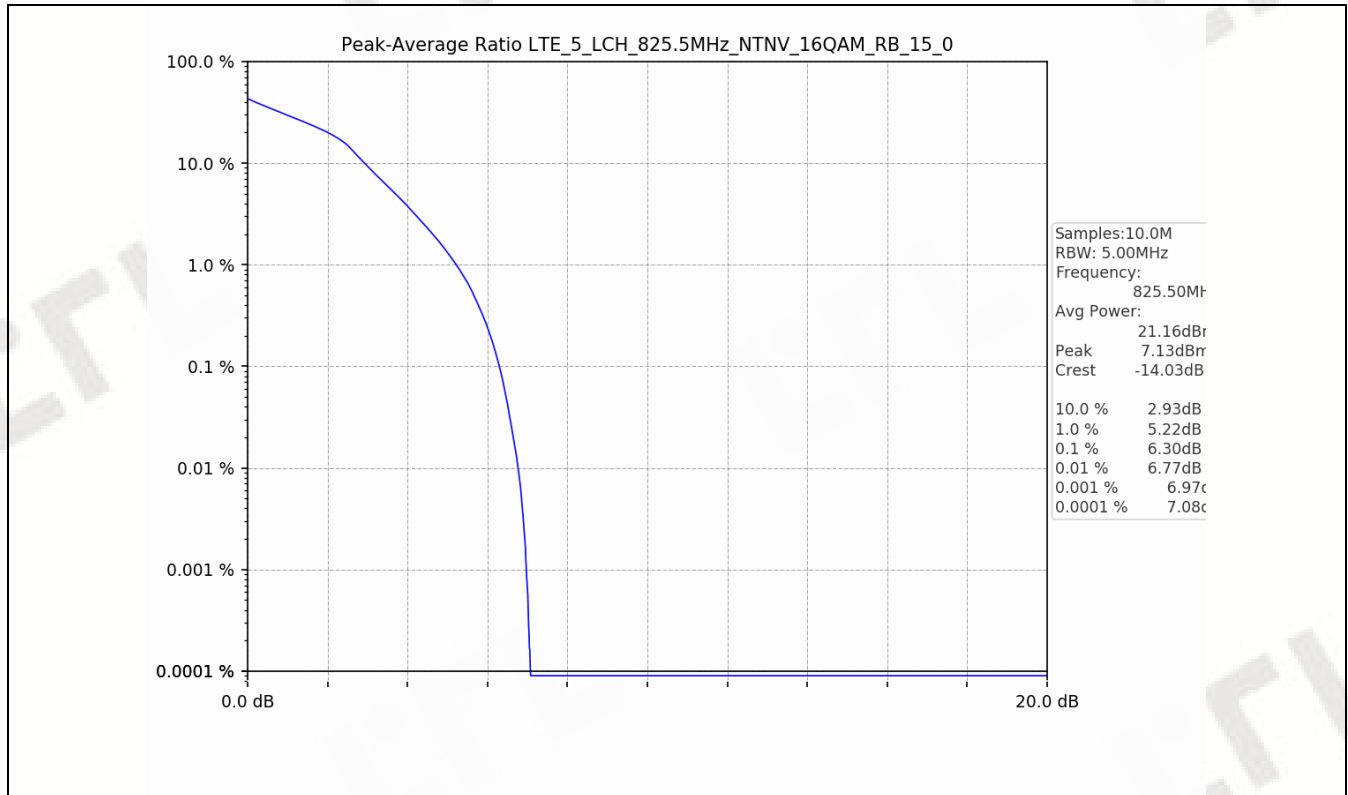


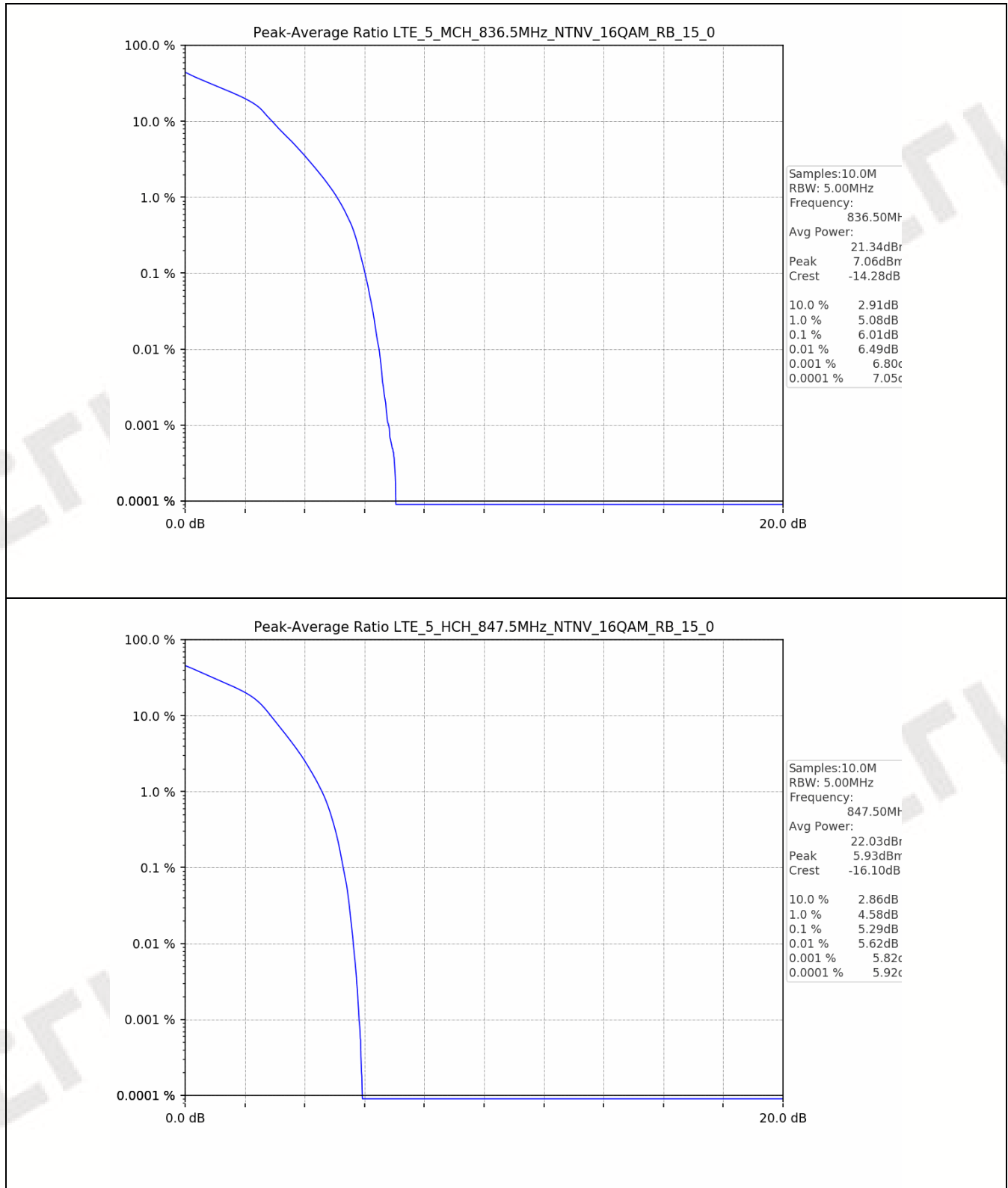
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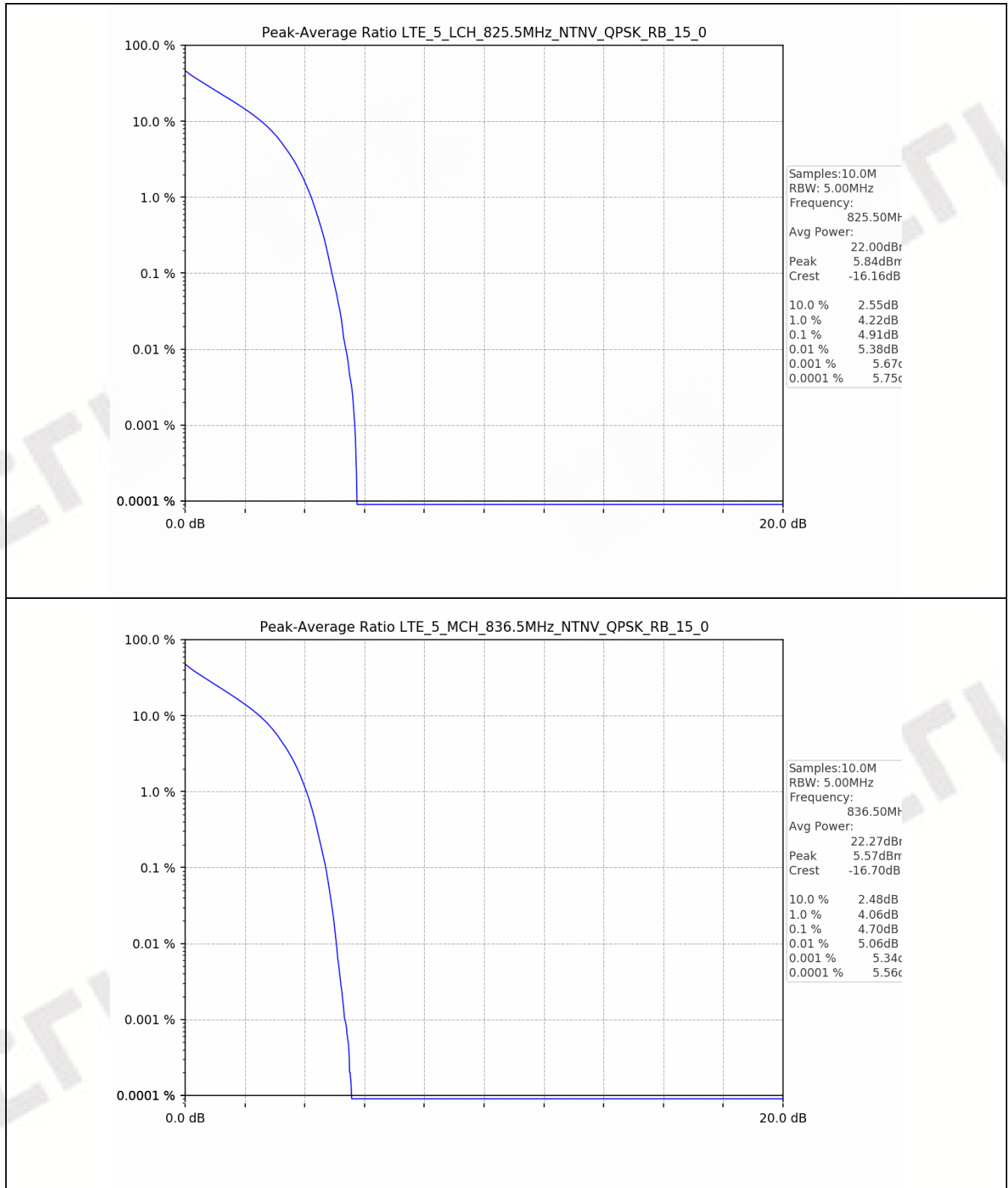
Tel: +86-755-89486194 E-mail: ctl@ctl-lab.com

| Test Band: 5_3MHz Bandwidth |               |        |                  |      |      |            |         |
|-----------------------------|---------------|--------|------------------|------|------|------------|---------|
| Test Mode                   | RB Allocation |        | Test result (dB) |      |      | Limit (dB) | Verdict |
|                             | Size          | Offset | LCH              | MCH  | HCH  |            |         |
| QPSK                        | 15            | 0      | 4.91             | 4.70 | 4.14 | 13         | PASS    |
| 16QAM                       | 15            | 0      | 6.30             | 6.01 | 5.29 | 13         | PASS    |

## 5.2 Test Graph



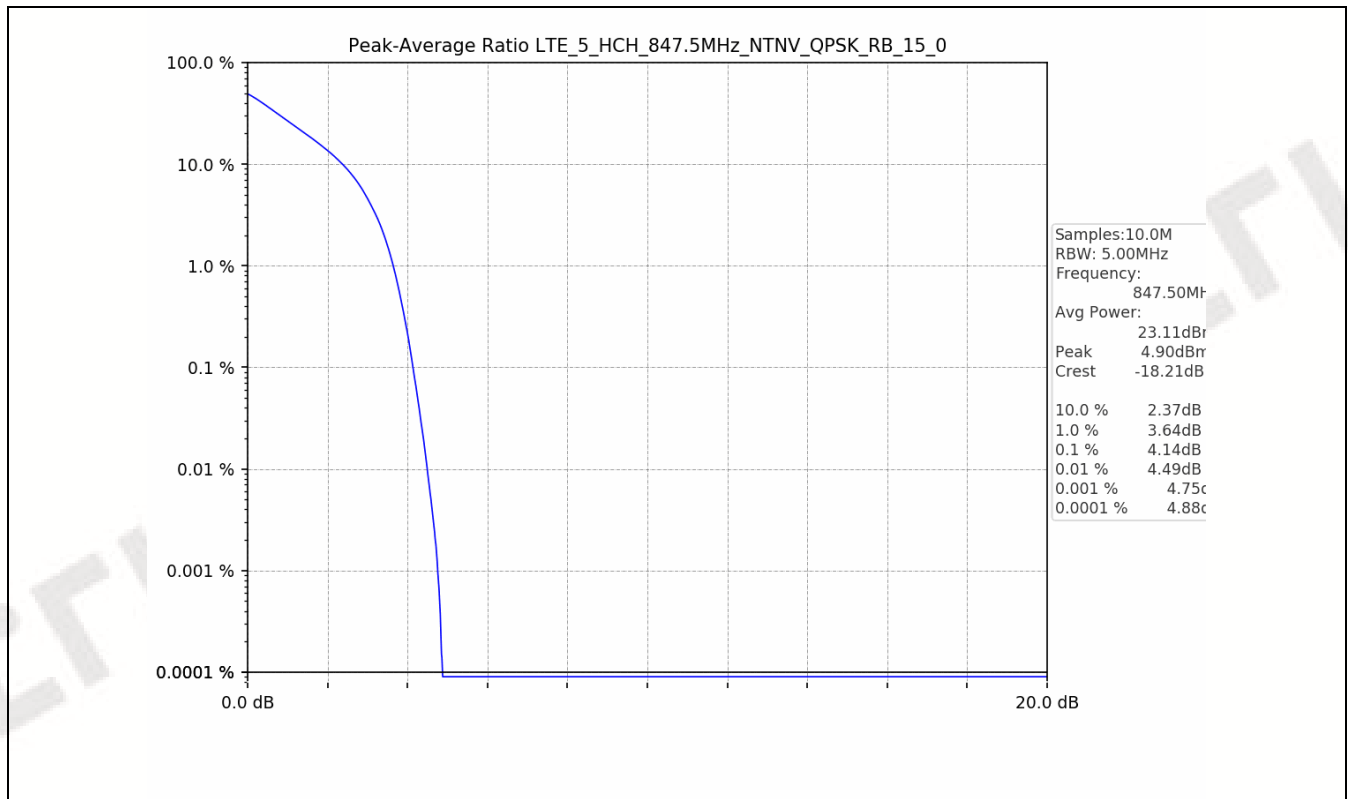






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| Test Band: 5_ 5MHz Bandwidth |               |        |                  |      |      |            |         |
|------------------------------|---------------|--------|------------------|------|------|------------|---------|
| Test Mode                    | RB Allocation |        | Test result (dB) |      |      | Limit (dB) | Verdict |
|                              | Size          | Offset | LCH              | MCH  | HCH  |            |         |
| QPSK                         | 25            | 0      | 5.07             | 4.94 | 4.51 | 13         | PASS    |
| 16QAM                        | 25            | 0      | 6.20             | 6.06 | 5.50 | 13         | PASS    |

## 5.2 Test Graph

