

## Appendix F: Test Data for LTE Band 5

Product Name: TT1001 10.1 inch Tablet

Test Model: TT1001V2

### F1. Effective (Isotropic) Radiated Power Output Data

#### F1.1 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      | 23.33                 | 23.55 | 23.80 | -1.15        | 1.00  | 22.18    | 22.40 | 22.65 | 38.45       | PASS    |
|                               |               | 2      | 23.33                 | 23.63 | 23.80 | -1.15        | 1.00  | 22.18    | 22.48 | 22.65 | 38.45       | PASS    |
|                               |               | 5      | 23.18                 | 23.56 | 23.72 | -1.15        | 1.00  | 22.03    | 22.41 | 22.57 | 38.45       | PASS    |
|                               | 3             | 0      | 23.36                 | 23.58 | 23.97 | -1.15        | 1.00  | 22.21    | 22.43 | 22.82 | 38.45       | PASS    |
|                               |               | 2      | 23.29                 | 23.65 | 24.06 | -1.15        | 1.00  | 22.14    | 22.50 | 22.91 | 38.45       | PASS    |
|                               |               | 3      | 23.27                 | 23.62 | 24.00 | -1.15        | 1.00  | 22.12    | 22.47 | 22.85 | 38.45       | PASS    |
| 16QAM                         | 1             | 0      | 22.32                 | 22.69 | 23.10 | -1.15        | 1.00  | 21.17    | 21.54 | 21.95 | 38.45       | PASS    |
|                               |               | 2      | 22.44                 | 23.04 | 22.74 | -1.15        | 1.00  | 21.29    | 21.89 | 21.59 | 38.45       | PASS    |
|                               |               | 5      | 22.53                 | 23.36 | 22.90 | -1.15        | 1.00  | 21.38    | 22.21 | 21.75 | 38.45       | PASS    |
|                               | 3             | 0      | 22.44                 | 23.12 | 22.68 | -1.15        | 1.00  | 21.29    | 21.97 | 21.53 | 38.45       | PASS    |
|                               |               | 2      | 22.16                 | 22.55 | 22.87 | -1.15        | 1.00  | 21.01    | 21.40 | 21.72 | 38.45       | PASS    |
|                               |               | 2      | 22.23                 | 22.53 | 22.86 | -1.15        | 1.00  | 21.08    | 21.38 | 21.71 | 38.45       | PASS    |
|                               | 6             | 3      | 21.95                 | 22.51 | 22.96 | -1.15        | 1.00  | 20.80    | 21.36 | 21.81 | 38.45       | PASS    |
|                               |               | 0      | 21.16                 | 21.72 | 21.99 | -1.15        | 1.00  | 20.01    | 20.57 | 20.84 | 38.45       | PASS    |
|                               |               | 0      | 21.16                 | 21.72 | 21.99 | -1.15        | 1.00  | 20.01    | 20.57 | 20.84 | 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)

| 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      | 23.23                 | 23.47 | 24.13 | -1.15        | 1.00  | 22.08    | 22.32 | 22.98 | 38.45       | PASS    |
|                             |                                                                                                                                               | 7      | 23.12                 | 23.85 | 24.02 | -1.15        | 1.00  | 21.97    | 22.70 | 22.87 | 38.45       | PASS    |
|                             |                                                                                                                                               | 14     | 23.03                 | 23.73 | 23.81 | -1.15        | 1.00  | 21.88    | 22.58 | 22.66 | 38.45       | PASS    |
|                             | 8                                                                                                                                             | 0      | 22.31                 | 22.52 | 23.15 | -1.15        | 1.00  | 21.16    | 21.37 | 22.00 | 38.45       | PASS    |
|                             |                                                                                                                                               | 4      | 22.16                 | 22.57 | 23.11 | -1.15        | 1.00  | 21.01    | 21.42 | 21.96 | 38.45       | PASS    |
|                             |                                                                                                                                               | 7      | 22.15                 | 22.71 | 23.00 | -1.15        | 1.00  | 21.00    | 21.56 | 21.85 | 38.45       | PASS    |
| 16QAM                       | 1                                                                                                                                             | 0      | 22.14                 | 22.60 | 23.07 | -1.15        | 1.00  | 20.99    | 21.45 | 21.92 | 38.45       | PASS    |
|                             |                                                                                                                                               |        | 22.09                 | 22.78 | 22.56 | -1.15        | 1.00  | 20.94    | 21.63 | 21.41 | 38.45       | PASS    |
|                             |                                                                                                                                               | 7      | 21.91                 | 23.02 | 22.88 | -1.15        | 1.00  | 20.76    | 21.87 | 21.73 | 38.45       | PASS    |
|                             | 8                                                                                                                                             | 14     | 21.86                 | 23.13 | 22.68 | -1.15        | 1.00  | 20.71    | 21.98 | 21.53 | 38.45       | PASS    |
|                             |                                                                                                                                               | 0      | 21.08                 | 21.65 | 21.79 | -1.15        | 1.00  | 19.93    | 20.50 | 20.64 | 38.45       | PASS    |
|                             |                                                                                                                                               | 4      | 20.92                 | 21.73 | 21.77 | -1.15        | 1.00  | 19.77    | 20.58 | 20.62 | 38.45       | PASS    |
|                             |                                                                                                                                               | 7      | 20.82                 | 21.85 | 21.67 | -1.15        | 1.00  | 19.67    | 20.70 | 20.52 | 38.45       | PASS    |
|                             | 15                                                                                                                                            | 0      | 20.92                 | 21.37 | 21.84 | -1.15        | 1.00  | 19.77    | 20.22 | 20.69 | 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 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      | 23.32                 | 23.35 | 24.05 | -1.15        | 1.00  | 22.17    | 22.20 | 22.90 | 38.45       | PASS    |
|                             |                                                                                                                                               | 13     | 23.23                 | 23.57 | 24.06 | -1.15        | 1.00  | 22.08    | 22.42 | 22.91 | 38.45       | PASS    |
|                             |                                                                                                                                               | 24     | 23.13                 | 23.53 | 23.79 | -1.15        | 1.00  | 21.98    | 22.38 | 22.64 | 38.45       | PASS    |
|                             | 12                                                                                                                                            | 0      | 22.22                 | 22.50 | 23.20 | -1.15        | 1.00  | 21.07    | 21.35 | 22.05 | 38.45       | PASS    |
|                             |                                                                                                                                               | 6      | 22.27                 | 22.54 | 23.16 | -1.15        | 1.00  | 21.12    | 21.39 | 22.01 | 38.45       | PASS    |
|                             |                                                                                                                                               | 13     | 22.32                 | 22.63 | 23.06 | -1.15        | 1.00  | 21.17    | 21.48 | 21.91 | 38.45       | PASS    |
| 16QAM                       | 1                                                                                                                                             | 0      | 22.27                 | 22.57 | 23.03 | -1.15        | 1.00  | 21.12    | 21.42 | 21.88 | 38.45       | PASS    |
|                             |                                                                                                                                               |        | 21.88                 | 22.34 | 22.63 | -1.15        | 1.00  | 20.73    | 21.19 | 21.48 | 38.45       | PASS    |
|                             |                                                                                                                                               | 13     | 21.93                 | 22.67 | 22.75 | -1.15        | 1.00  | 20.78    | 21.52 | 21.60 | 38.45       | PASS    |
|                             | 24                                                                                                                                            | 21.93  | 22.71                 | 22.68 | -1.15 | 1.00         | 20.78 | 21.56    | 21.53 | 38.45 | PASS        |         |
|                             | 12                                                                                                                                            | 0      | 20.92                 | 21.37 | 21.94 | -1.15        | 1.00  | 19.77    | 20.22 | 20.79 | 38.45       | PASS    |
|                             |                                                                                                                                               | 6      | 20.96                 | 21.42 | 21.74 | -1.15        | 1.00  | 19.81    | 20.27 | 20.59 | 38.45       | PASS    |
|                             |                                                                                                                                               | 13     | 21.09                 | 21.31 | 21.60 | -1.15        | 1.00  | 19.94    | 20.16 | 20.45 | 38.45       | PASS    |
|                             | 25                                                                                                                                            | 0      | 21.08                 | 21.57 | 21.86 | -1.15        | 1.00  | 19.93    | 20.42 | 20.71 | 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      | 23.25                 | 23.21 | 24.00 | -1.15        | 1.00  | 22.10    | 22.06 | 22.85 | 38.45       | PASS    |      |
|                              |                                                                                                                                               | 25     | 23.44                 | 23.65 | 24.28 | -1.15        | 1.00  | 22.29    | 22.50 | 23.13 | 38.45       | PASS    |      |
|                              |                                                                                                                                               | 49     | 23.51                 | 23.85 | 23.98 | -1.15        | 1.00  | 22.36    | 22.70 | 22.83 | 38.45       | PASS    |      |
|                              | 25                                                                                                                                            | 0      | 22.20                 | 22.40 | 23.03 | -1.15        | 1.00  | 21.05    | 21.25 | 21.88 | 38.45       | PASS    |      |
|                              |                                                                                                                                               | 13     | 22.26                 | 22.55 | 23.14 | -1.15        | 1.00  | 21.11    | 21.40 | 21.99 | 38.45       | PASS    |      |
|                              |                                                                                                                                               | 25     | 22.25                 | 22.71 | 23.06 | -1.15        | 1.00  | 21.10    | 21.56 | 21.91 | 38.45       | PASS    |      |
| 16QAM                        | 50                                                                                                                                            | 0      | 22.23                 | 22.65 | 23.05 | -1.15        | 1.00  | 21.08    | 21.50 | 21.90 | 38.45       | PASS    |      |
|                              |                                                                                                                                               |        | 22.35                 | 22.29 | 22.77 | -1.15        | 1.00  | 21.20    | 21.14 | 21.62 | 38.45       | PASS    |      |
|                              |                                                                                                                                               | 25     | 22.25                 | 22.67 | 23.11 | -1.15        | 1.00  | 21.10    | 21.52 | 21.96 | 38.45       | PASS    |      |
|                              | 1                                                                                                                                             | 49     | 22.21                 | 23.19 | 22.74 | -1.15        | 1.00  | 21.06    | 22.04 | 21.59 | 38.45       | PASS    |      |
|                              |                                                                                                                                               | 25     | 0                     | 21.26 | 21.36 | 21.87        | -1.15 | 1.00     | 20.11 | 20.21 | 20.72       | 38.45   | PASS |
|                              |                                                                                                                                               |        | 13                    | 21.28 | 21.42 | 22.04        | -1.15 | 1.00     | 20.13 | 20.27 | 20.89       | 38.45   | PASS |
|                              | 25                                                                                                                                            |        | 21.19                 | 21.58 | 21.96 | -1.15        | 1.00  | 20.04    | 20.43 | 20.81 | 38.45       | PASS    |      |
|                              | 50                                                                                                                                            | 0      | 21.06                 | 21.70 | 21.78 | -1.15        | 1.00  | 19.91    | 20.55 | 20.63 | 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) |        |                       |       |       |              |       |          |       |       |             |         |      |



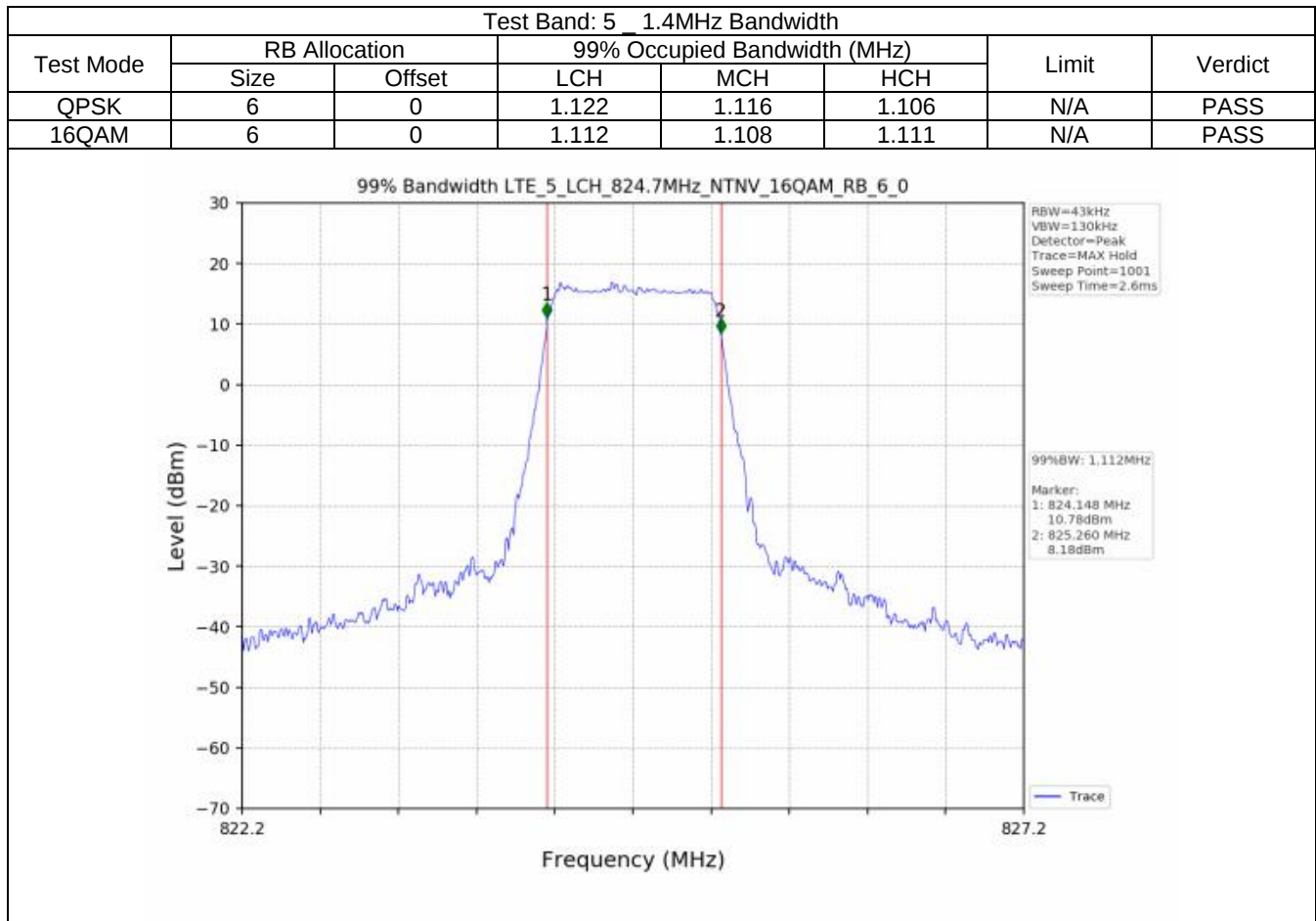


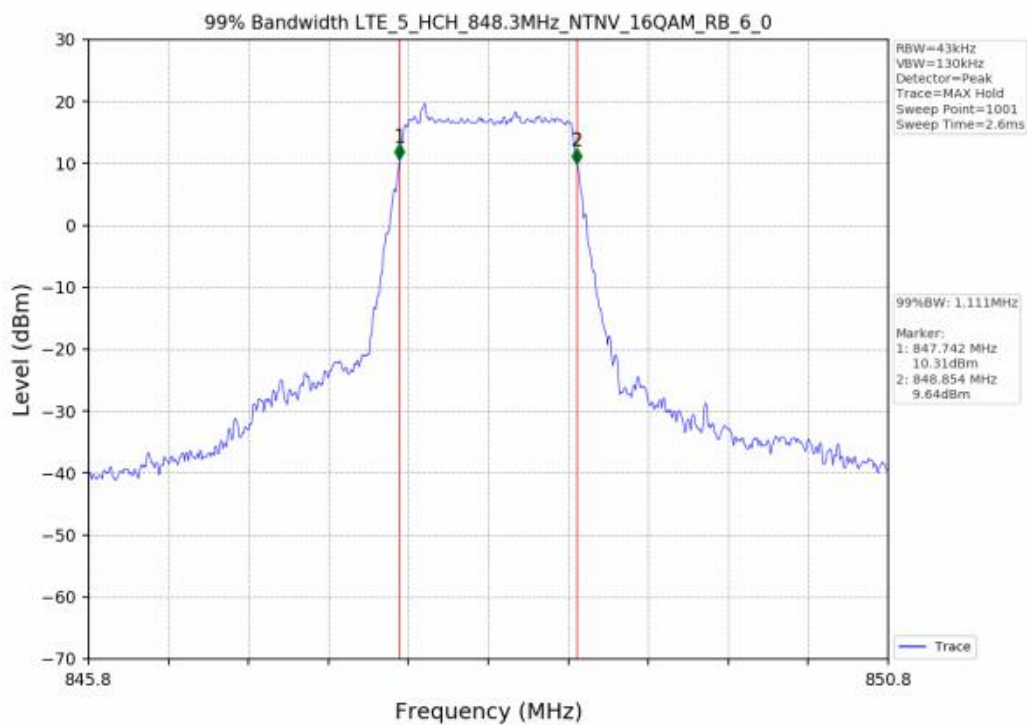
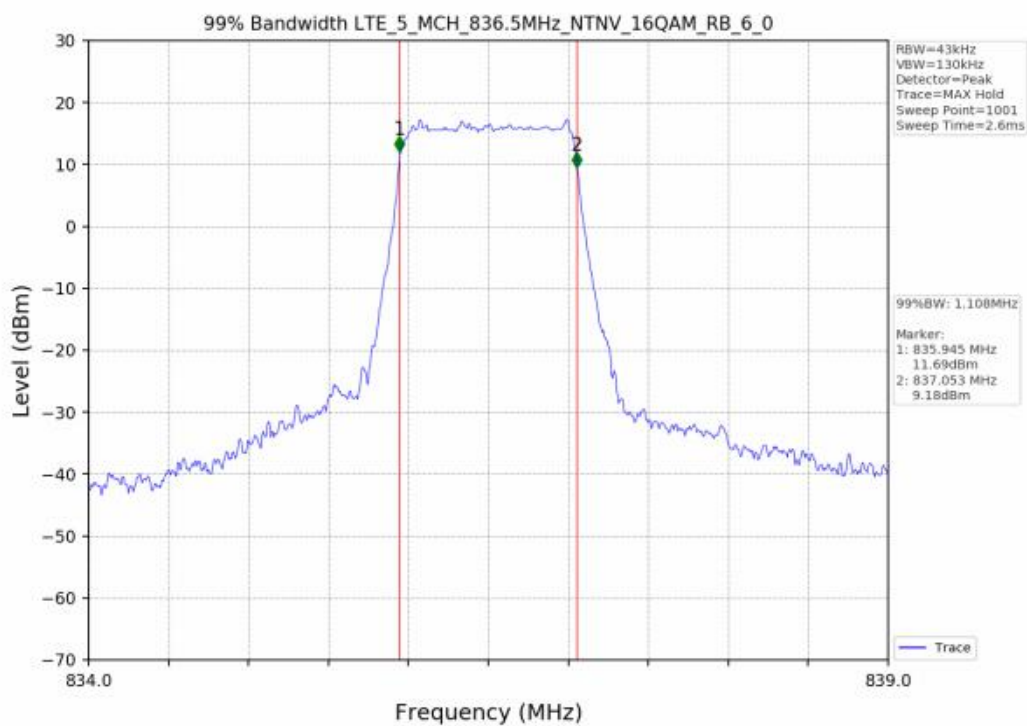
|  |  |  |  |    |         |         |        |         |         |        |      |      |
|--|--|--|--|----|---------|---------|--------|---------|---------|--------|------|------|
|  |  |  |  | NV | -1.5020 | -0.7153 | 0.3719 | -0.0018 | -0.0009 | 0.0004 | 2.50 | PASS |
|  |  |  |  | HV | -1.3590 | -1.3304 | 0.9727 | -0.0016 | -0.0016 | 0.0012 | 2.50 | PASS |

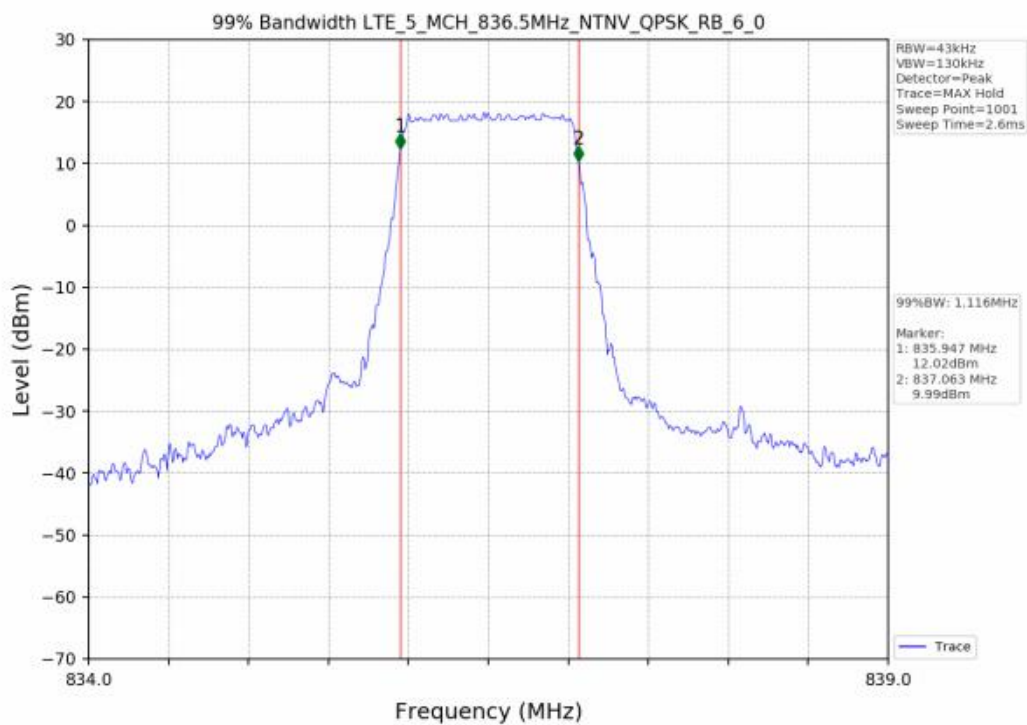
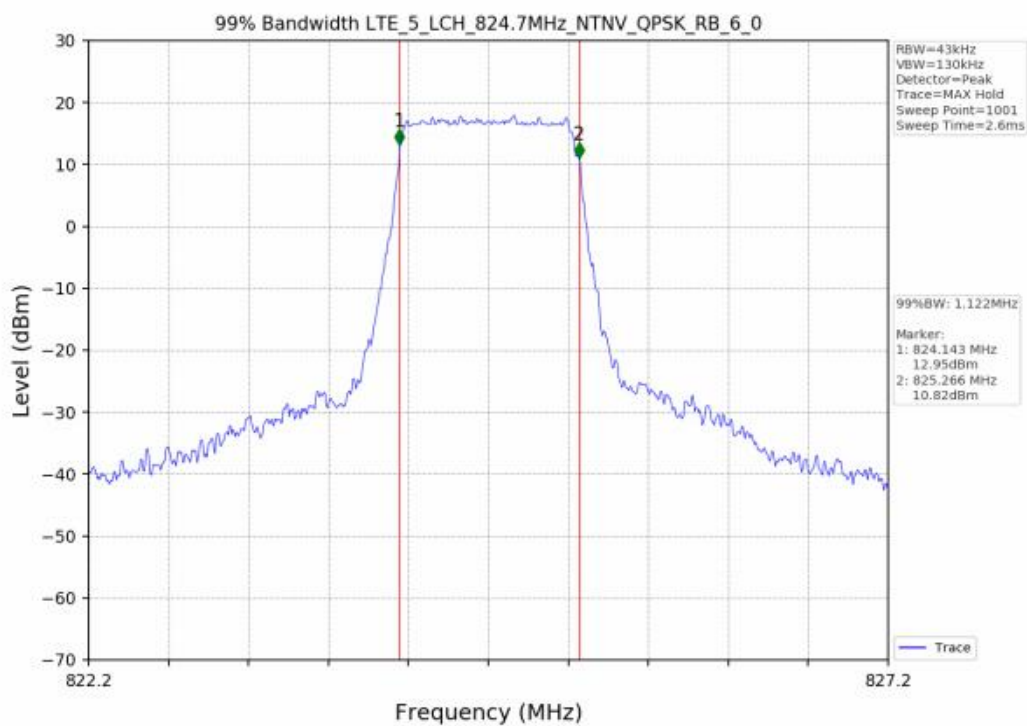
| Test Band: 5 10MHz Bandwidth (Frequency Error VS. Temperature) |               |        |            |            |                  |         |         |                       |         |         |             |         |
|----------------------------------------------------------------|---------------|--------|------------|------------|------------------|---------|---------|-----------------------|---------|---------|-------------|---------|
| 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     | -0.7582          | -0.7296 | -0.6580 | -0.0009               | -0.0009 | -0.0008 | 2.50        | PASS    |
|                                                                |               |        |            | -20.00     | -1.1587          | -1.1730 | -1.0729 | -0.0014               | -0.0014 | -0.0013 | 2.50        | PASS    |
|                                                                |               |        |            | -10.00     | -0.4864          | -0.7725 | -0.0143 | -0.0006               | -0.0009 | 0.0000  | 2.50        | PASS    |
|                                                                |               |        |            | 0.00       | -0.5150          | -1.0443 | -0.4721 | -0.0006               | -0.0012 | -0.0006 | 2.50        | PASS    |
|                                                                |               |        |            | 10.00      | -1.2445          | -1.1444 | -0.5579 | -0.0015               | -0.0014 | -0.0007 | 2.50        | PASS    |
|                                                                |               |        |            | 20.00      | -1.1587          | -0.6437 | -0.9012 | -0.0014               | -0.0008 | -0.0011 | 2.50        | PASS    |
|                                                                |               |        |            | 30.00      | -0.7868          | -1.7738 | -1.3876 | -0.0009               | -0.0021 | -0.0016 | 2.50        | PASS    |
|                                                                |               |        |            | 40.00      | -0.0715          | -1.0443 | -0.7010 | -0.0001               | -0.0012 | -0.0008 | 2.50        | PASS    |
| 16QAM                                                          | 50            | 0      | NV         | 50.00      | -1.5163          | -0.8726 | -2.1315 | -0.0018               | -0.0010 | -0.0025 | 2.50        | PASS    |
|                                                                |               |        |            | -30.00     | -1.1730          | -1.0157 | 0.2432  | -0.0014               | -0.0012 | 0.0003  | 2.50        | PASS    |
|                                                                |               |        |            | -20.00     | -1.6880          | -0.7439 | -0.0286 | -0.0020               | -0.0009 | 0.0000  | 2.50        | PASS    |
|                                                                |               |        |            | -10.00     | -0.6008          | -1.2732 | -0.9441 | -0.0007               | -0.0015 | -0.0011 | 2.50        | PASS    |
|                                                                |               |        |            | 0.00       | -0.1287          | -1.5450 | -1.3304 | -0.0002               | -0.0018 | -0.0016 | 2.50        | PASS    |
|                                                                |               |        |            | 10.00      | -2.2030          | -1.2588 | -0.9727 | -0.0027               | -0.0015 | -0.0012 | 2.50        | PASS    |
|                                                                |               |        |            | 20.00      | -1.0729          | -0.9298 | -0.0143 | -0.0013               | -0.0011 | 0.0000  | 2.50        | PASS    |
|                                                                |               |        |            | 30.00      | -0.7296          | -1.1587 | -0.0858 | -0.0009               | -0.0014 | -0.0001 | 2.50        | PASS    |
|                                                                |               |        |            | 40.00      | -0.0143          | -1.2016 | -0.1574 | 0.0000                | -0.0014 | -0.0002 | 2.50        | PASS    |
|                                                                |               |        |            | 50.00      | -0.7296          | -1.0014 | -1.0014 | -0.0009               | -0.0012 | -0.0012 | 2.50        | PASS    |

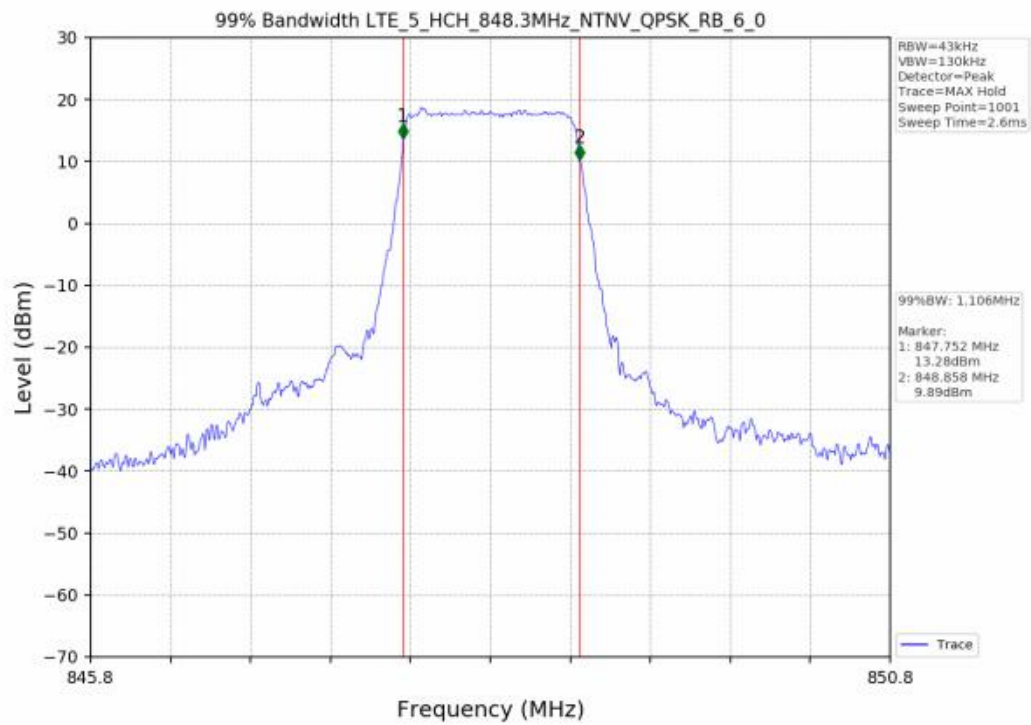
## F3. 99% &amp; 26dB Bandwidth

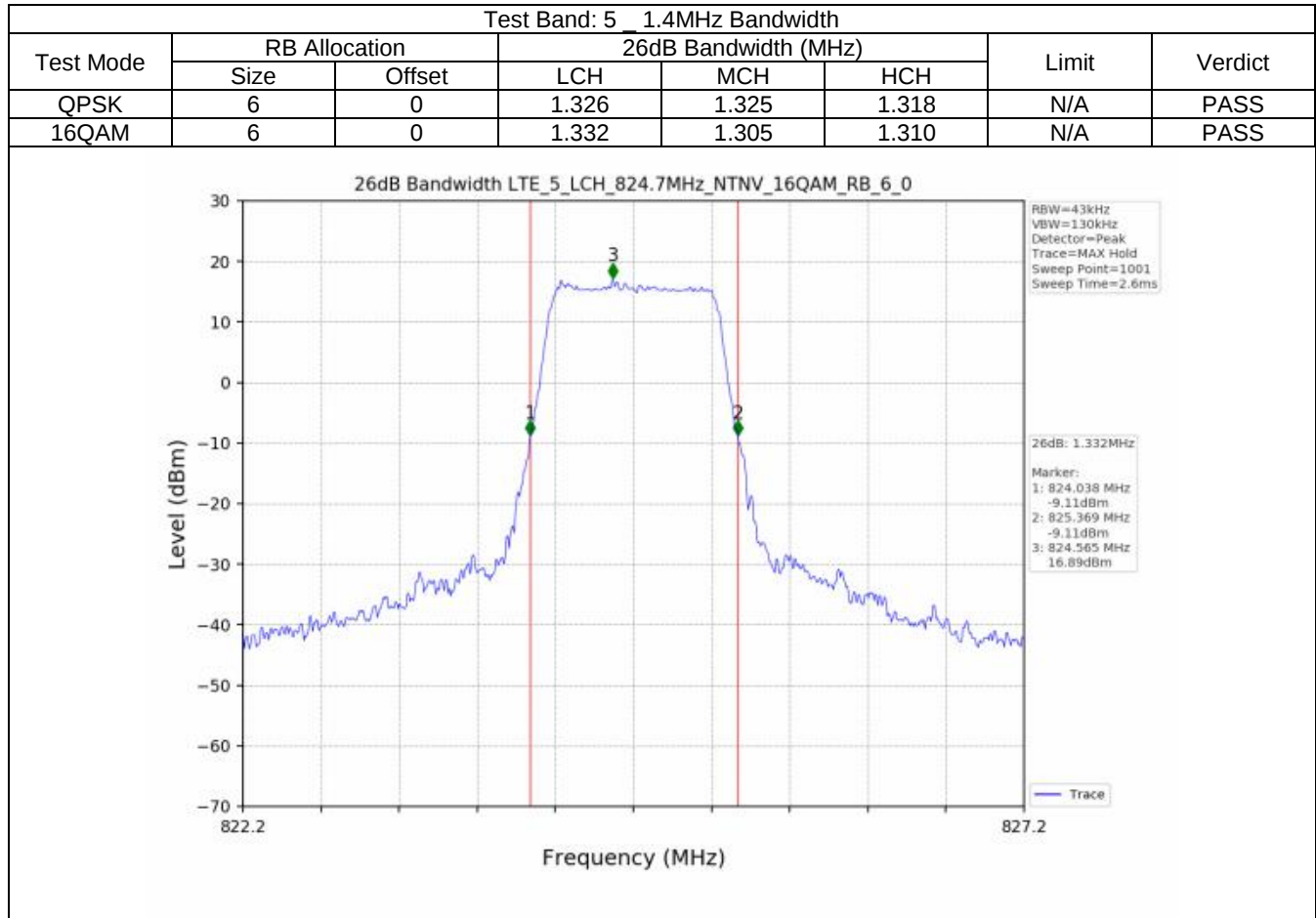
## F3.1 Test Result

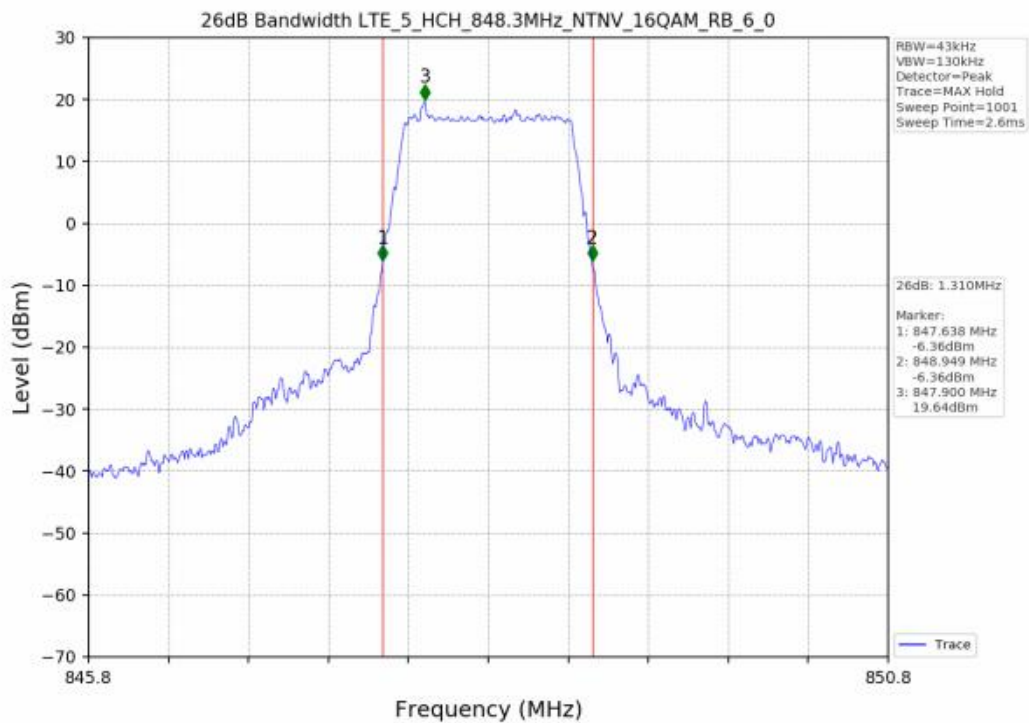
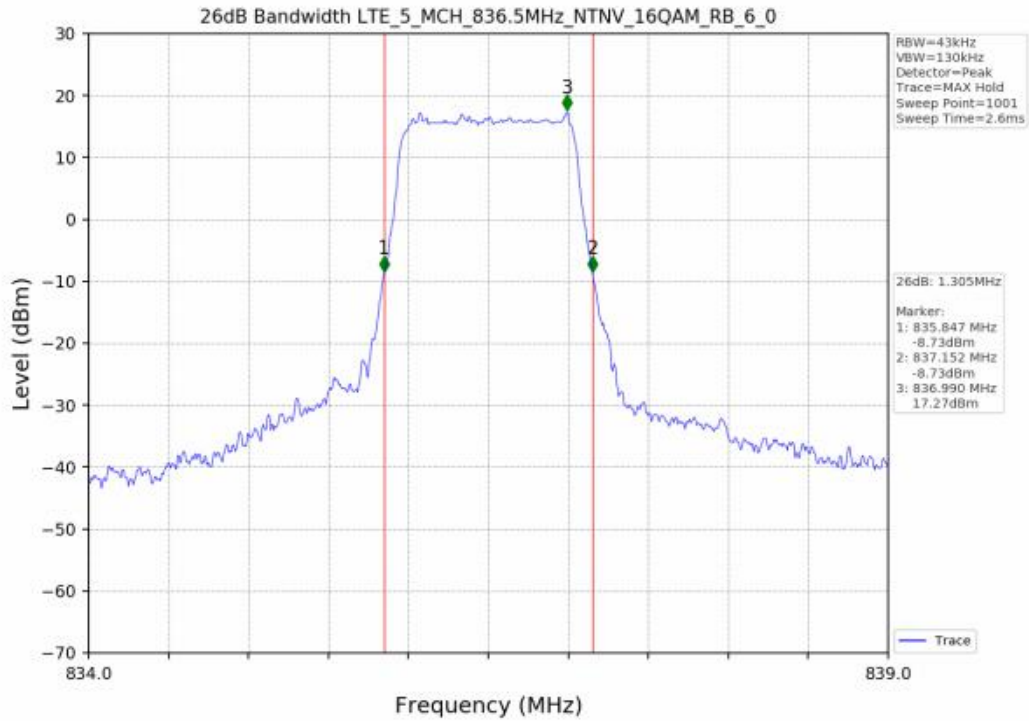


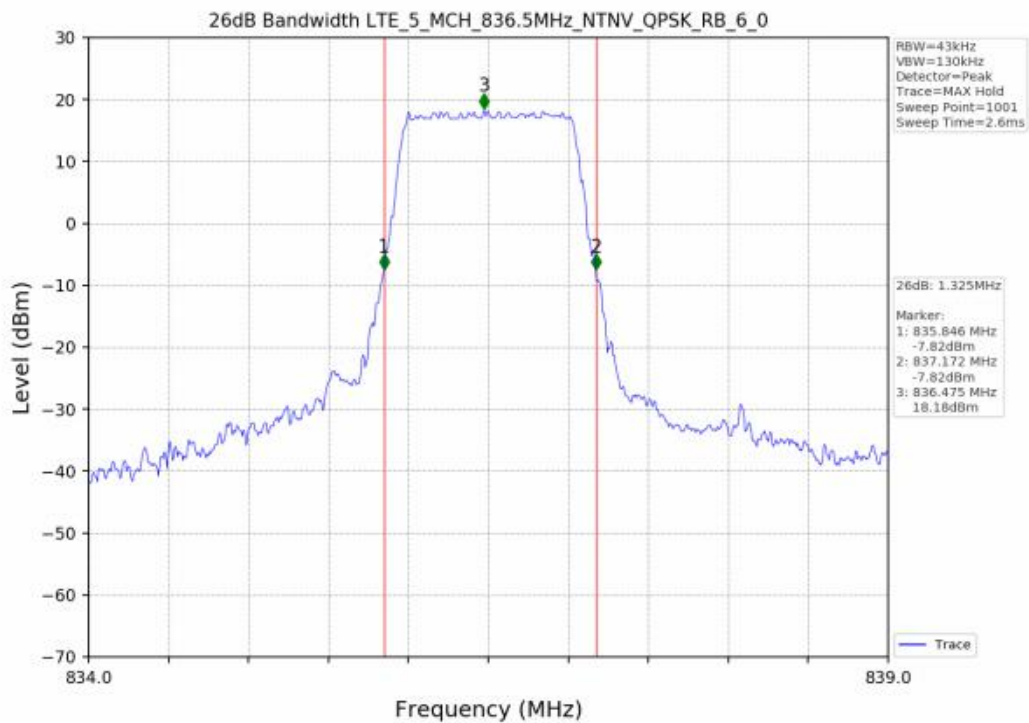
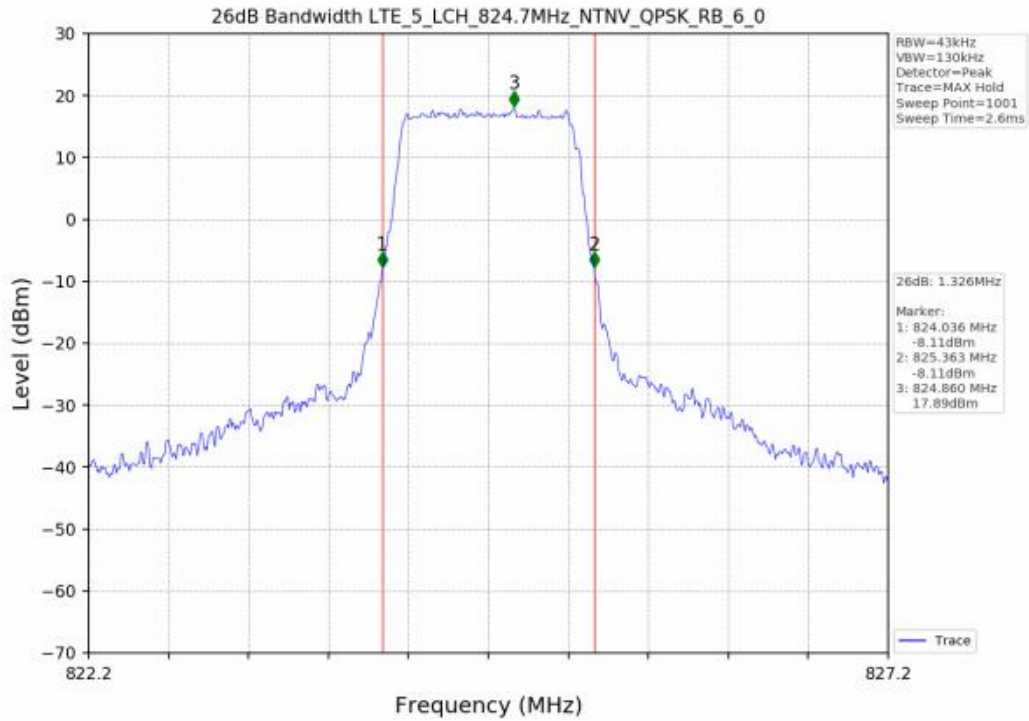


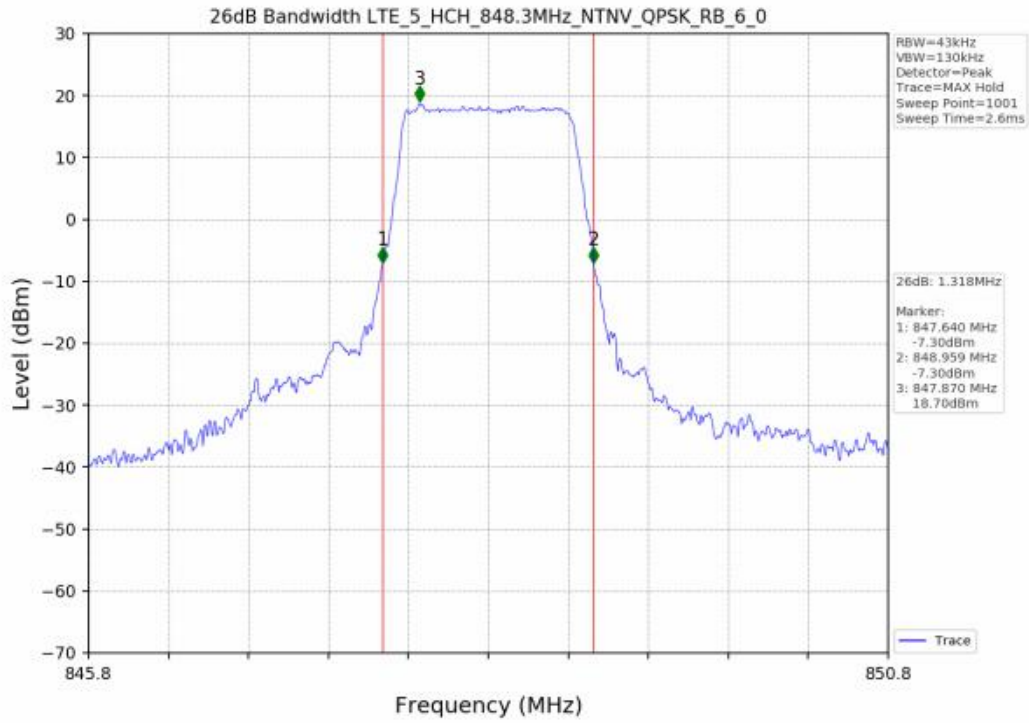


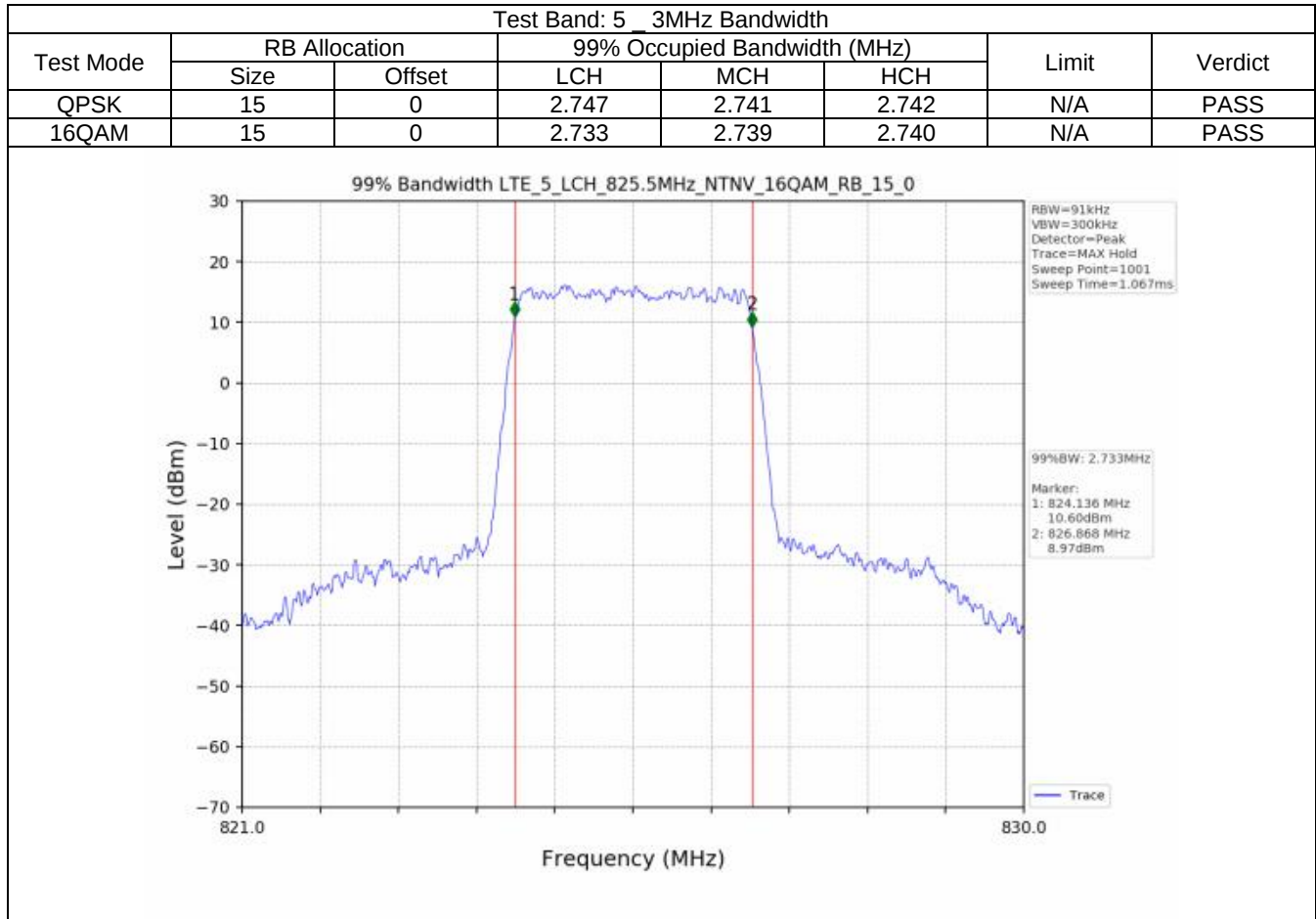


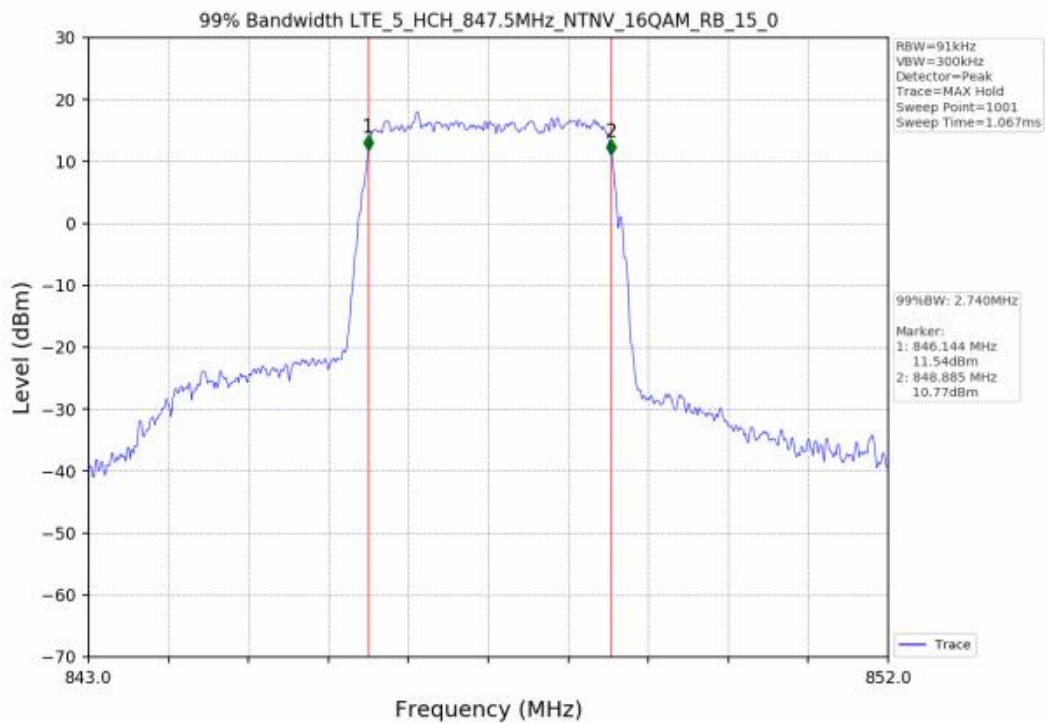
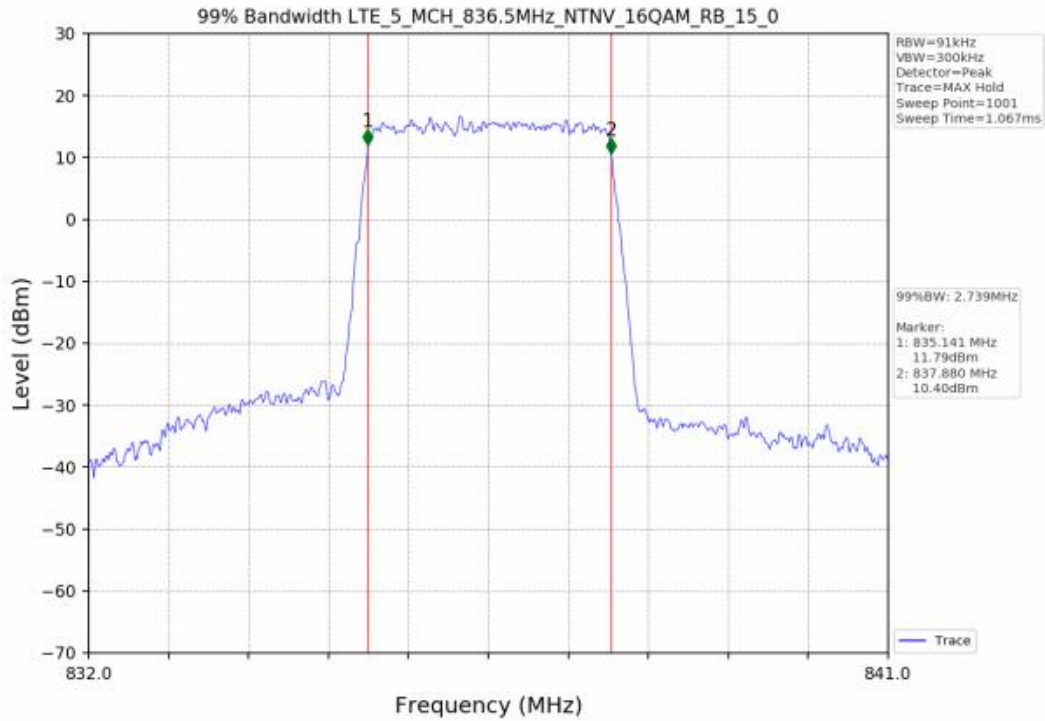


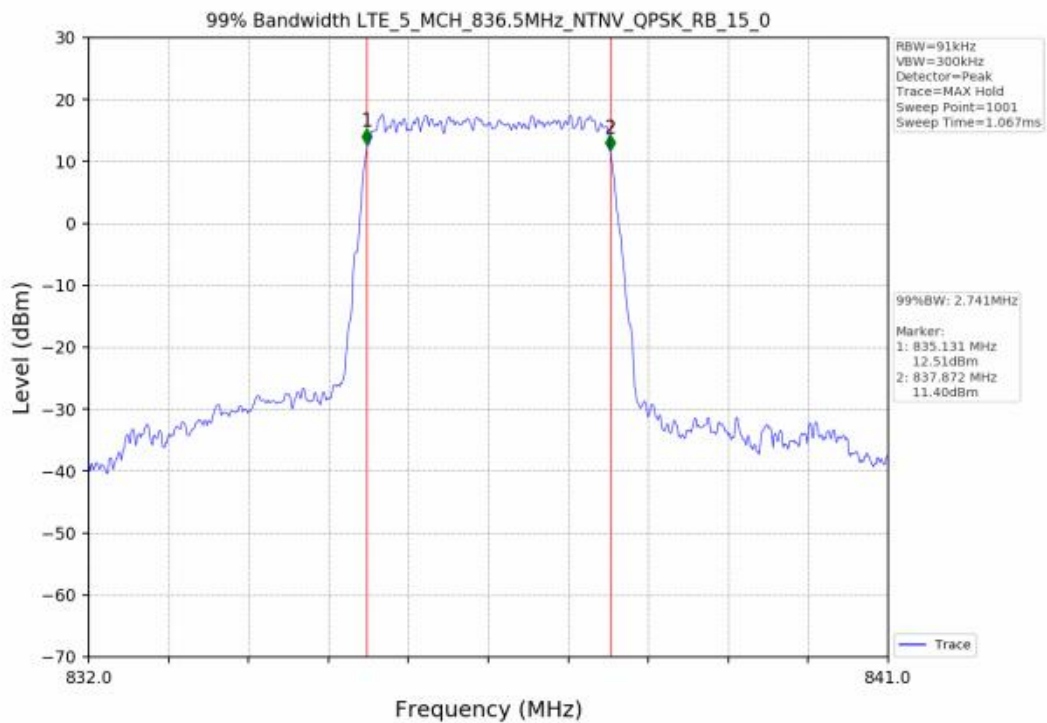
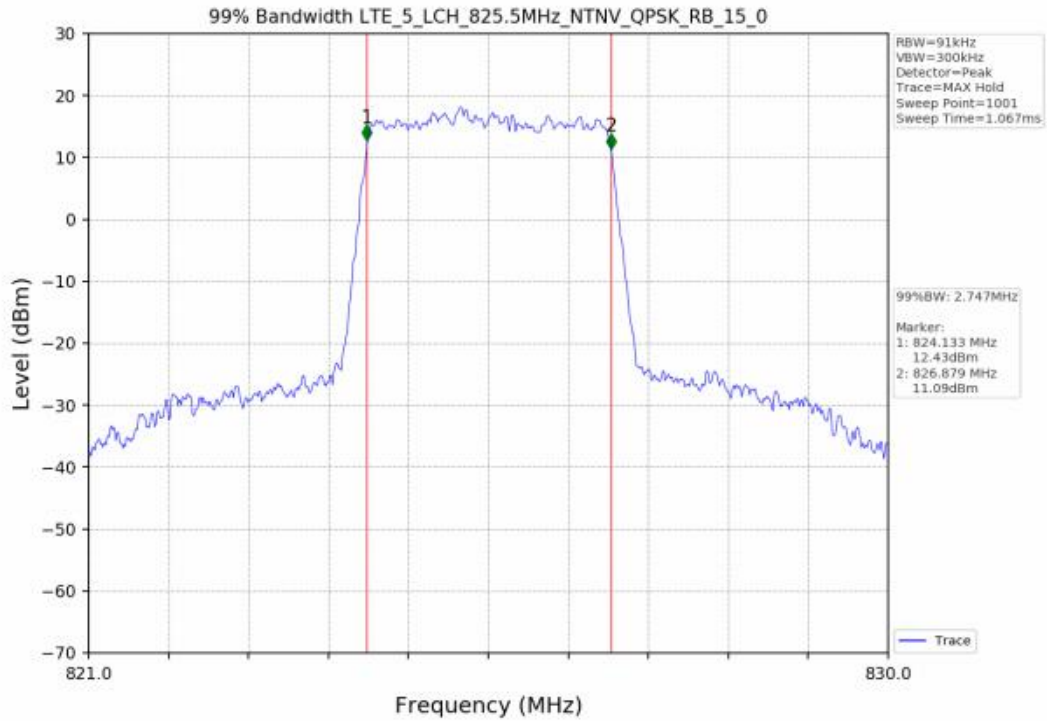


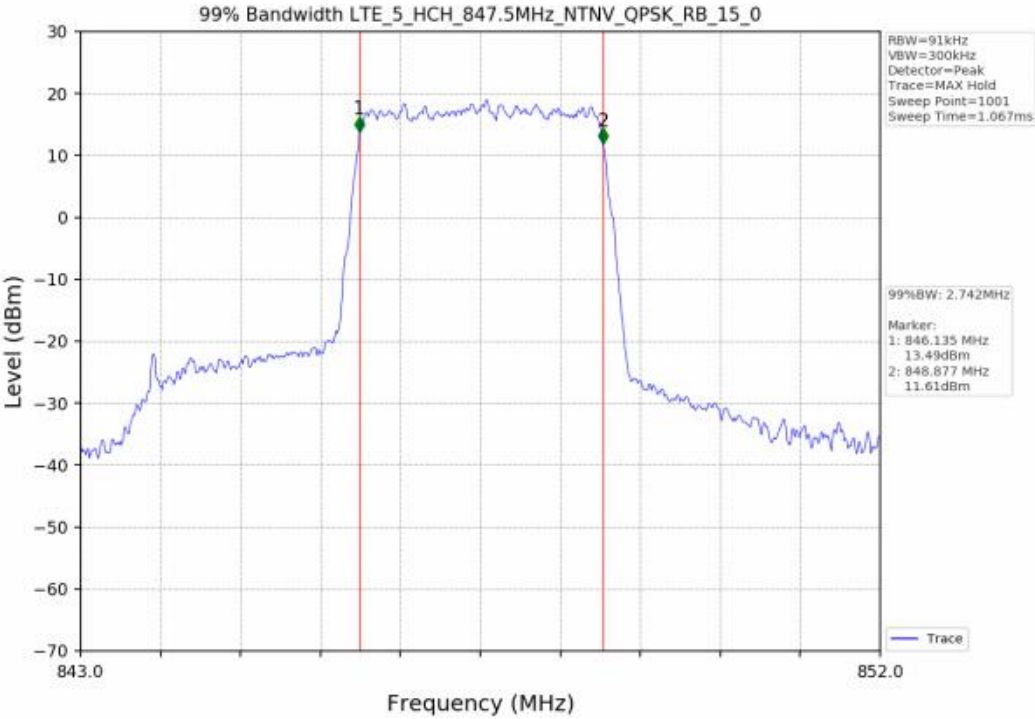


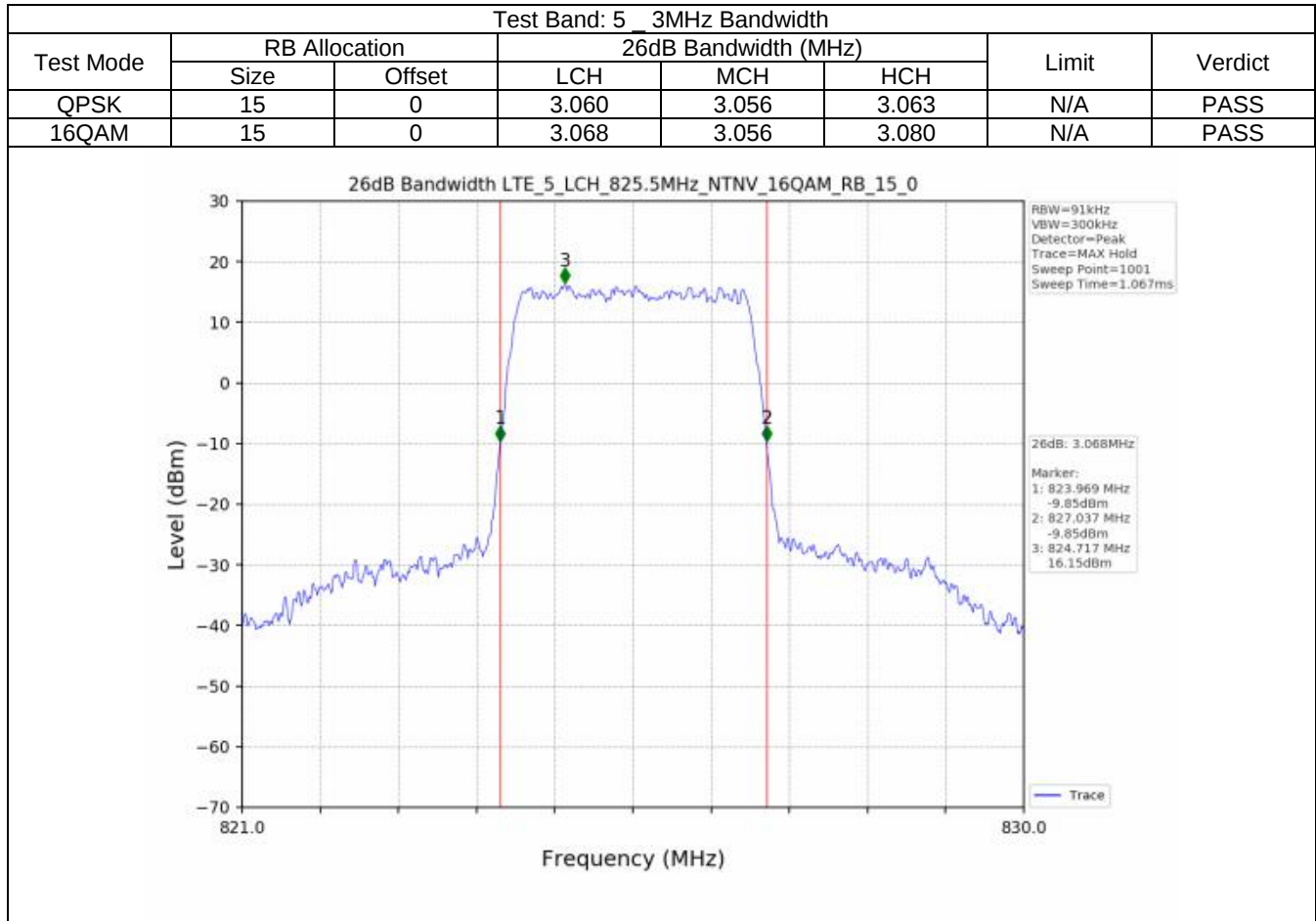


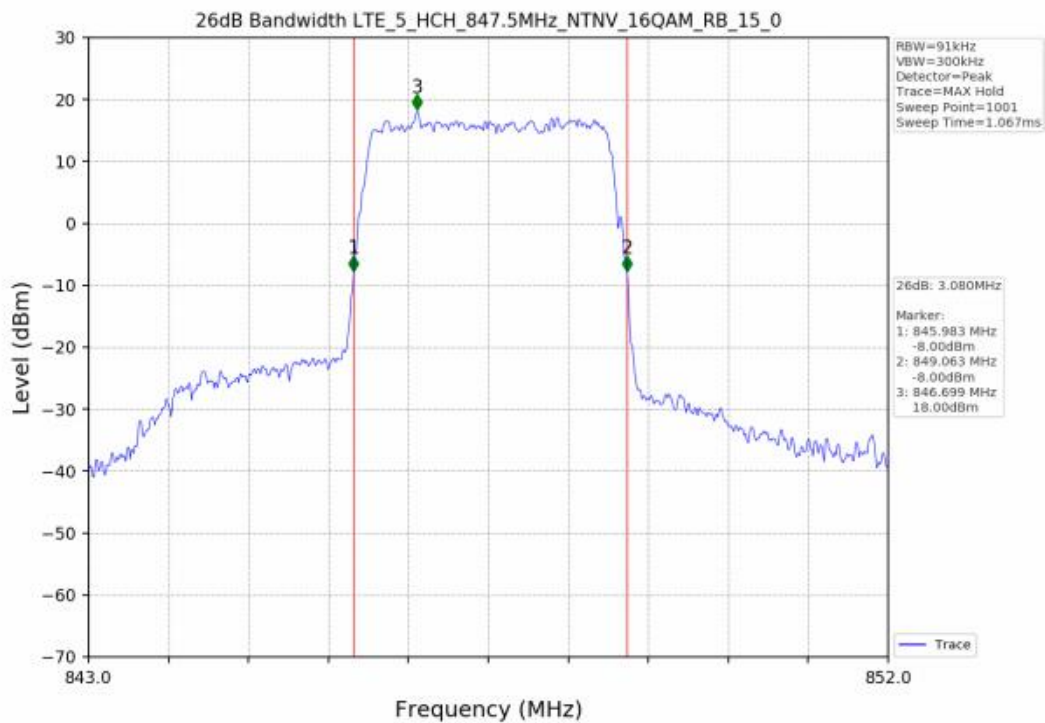
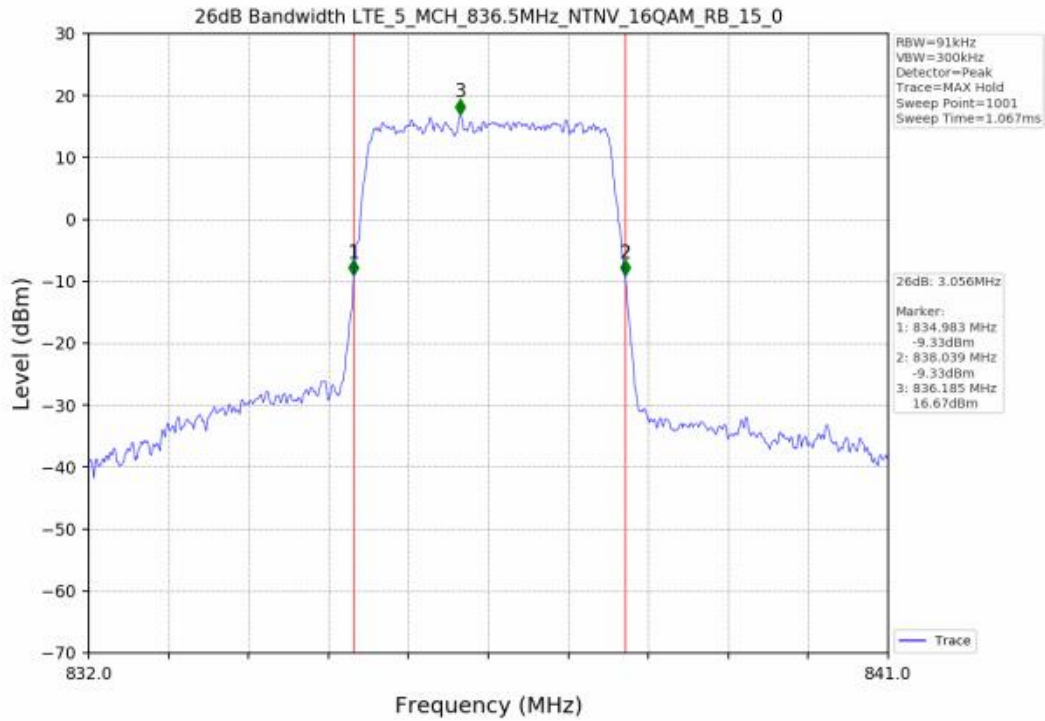


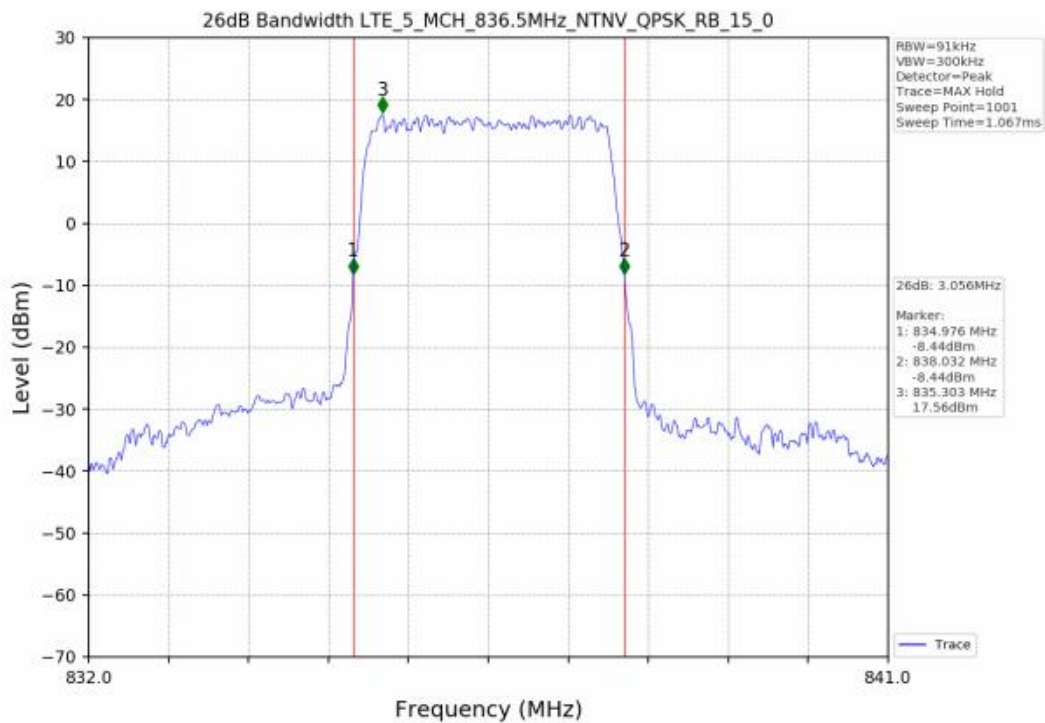
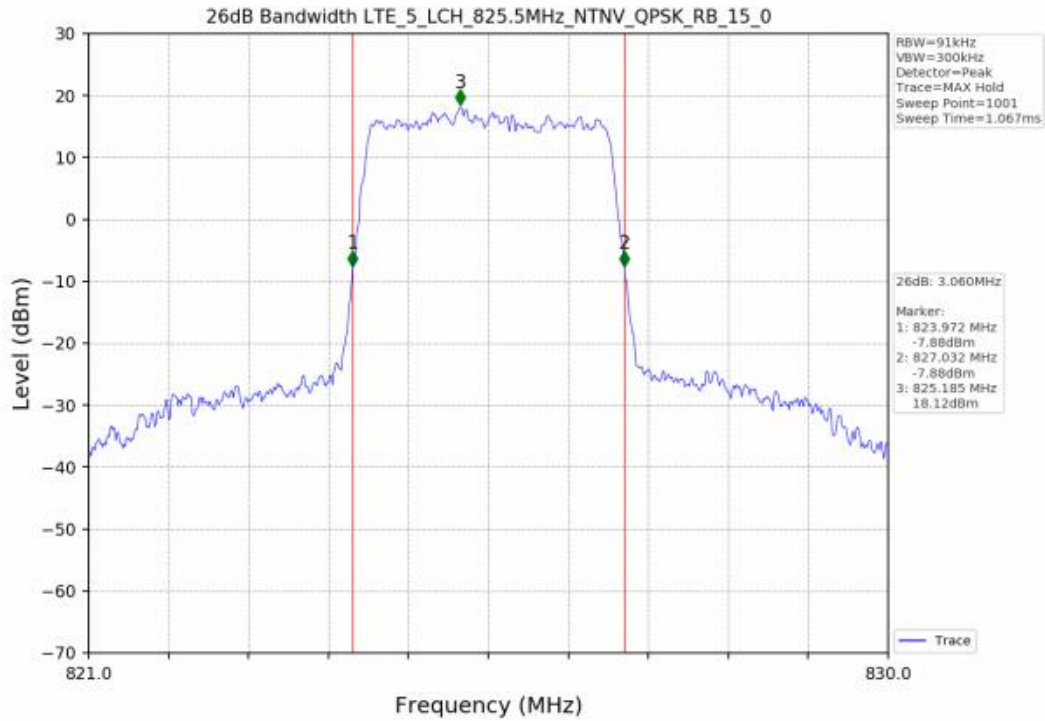


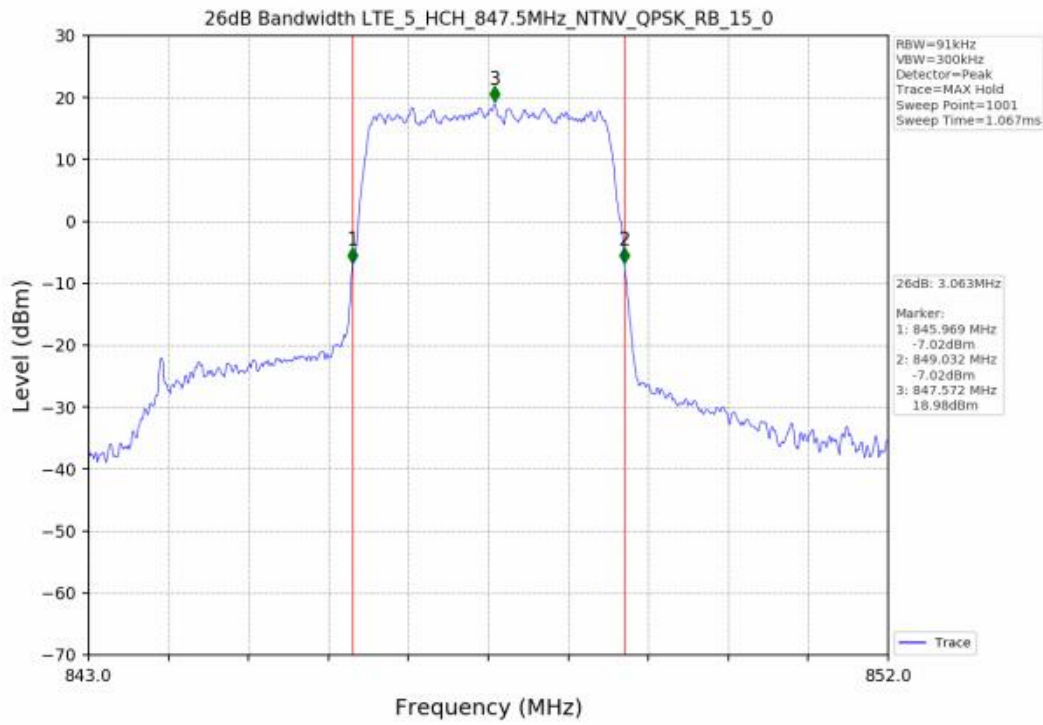


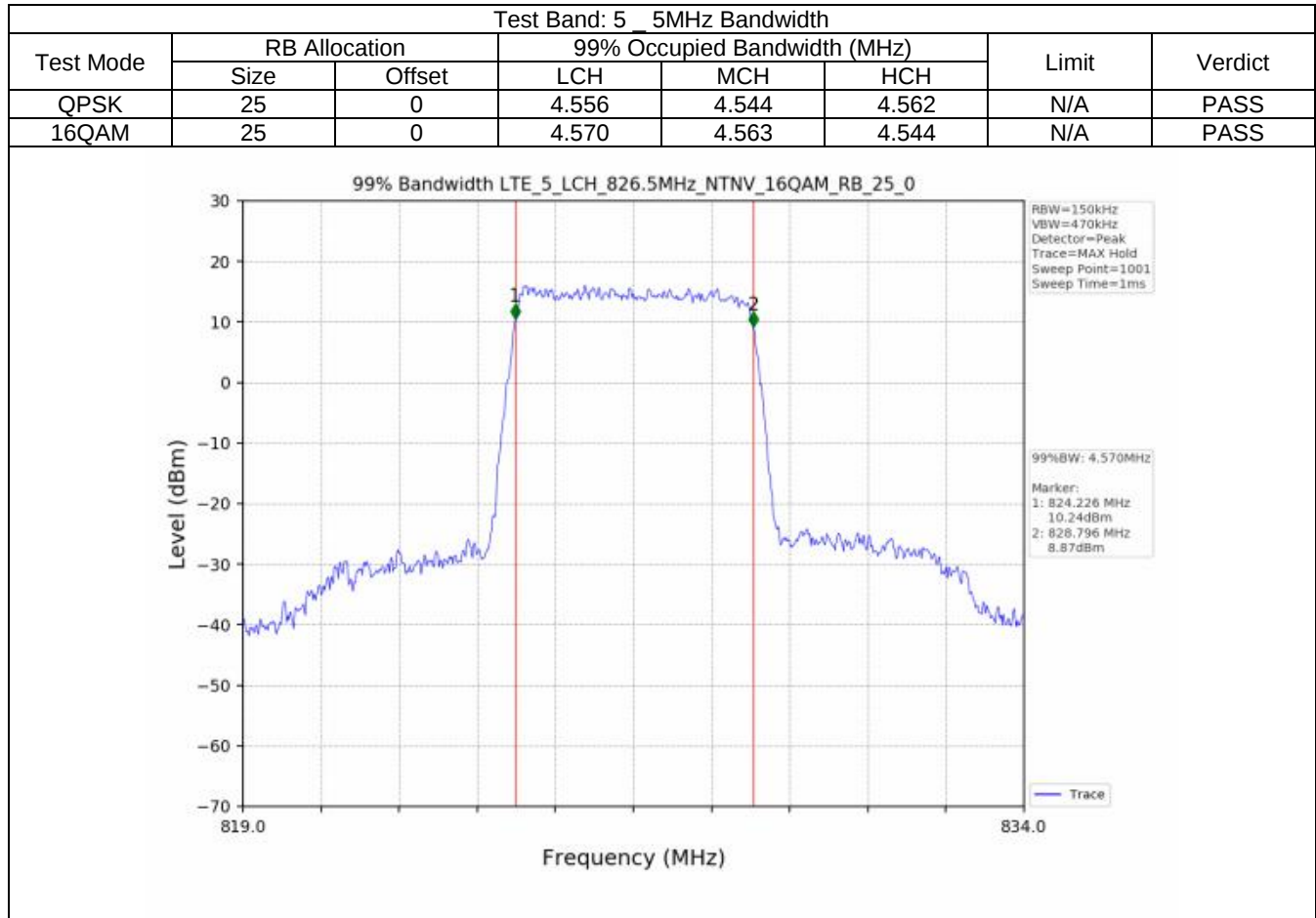


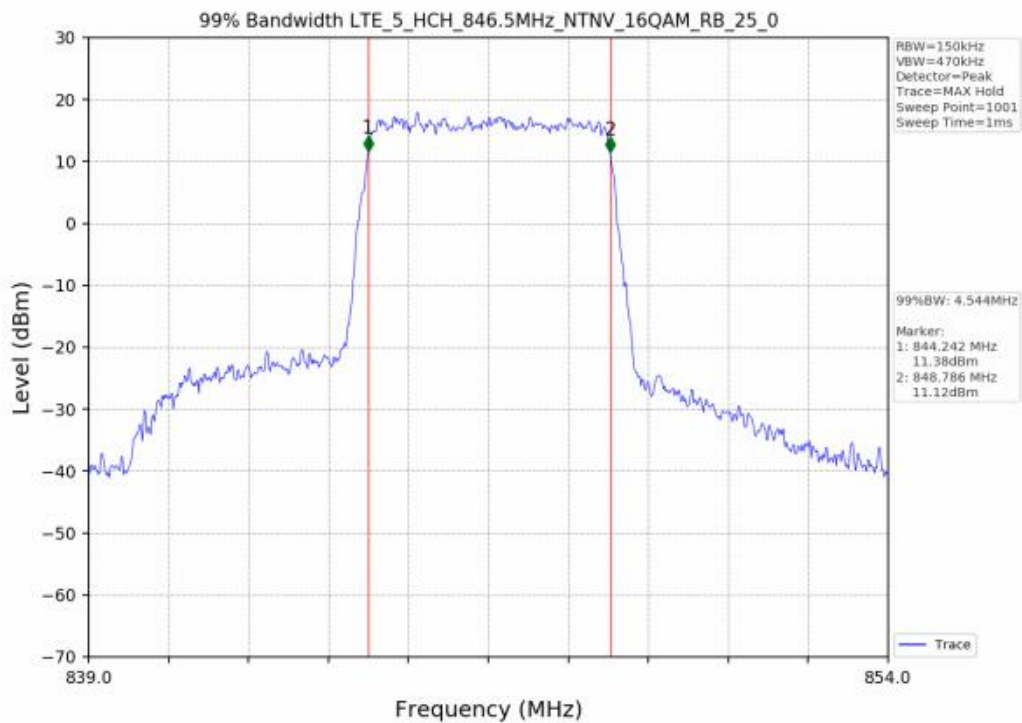
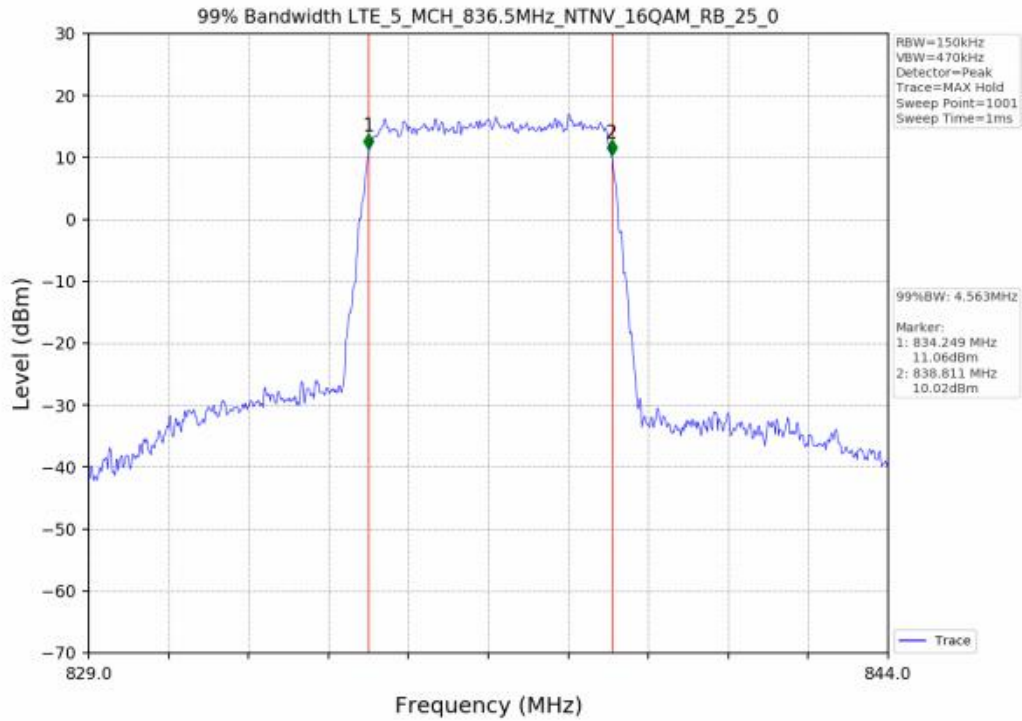


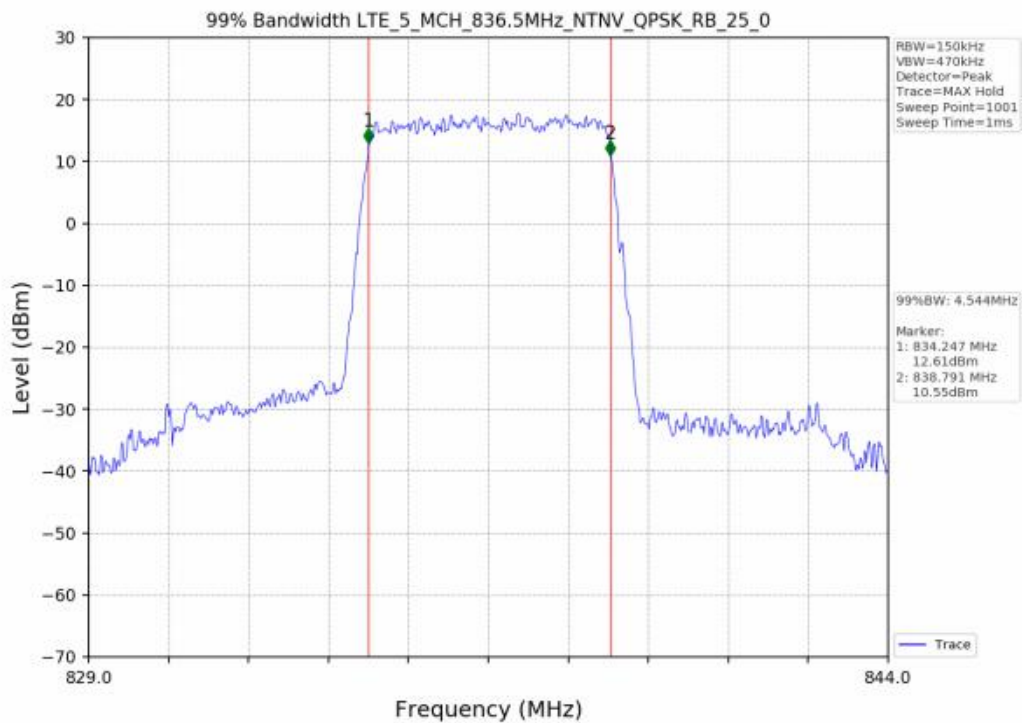
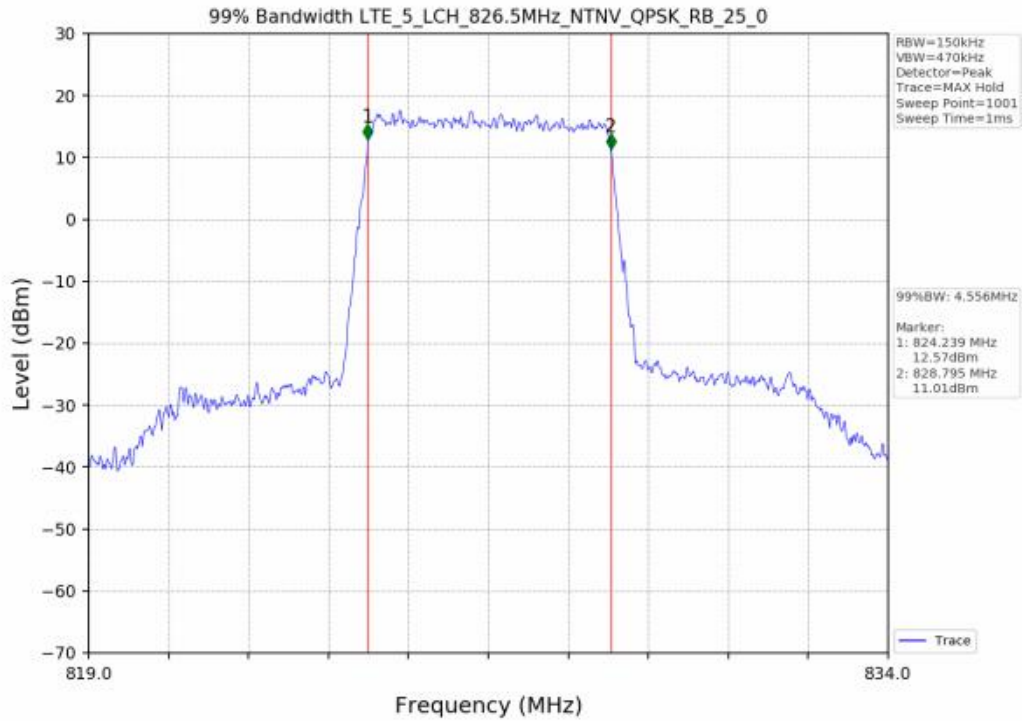


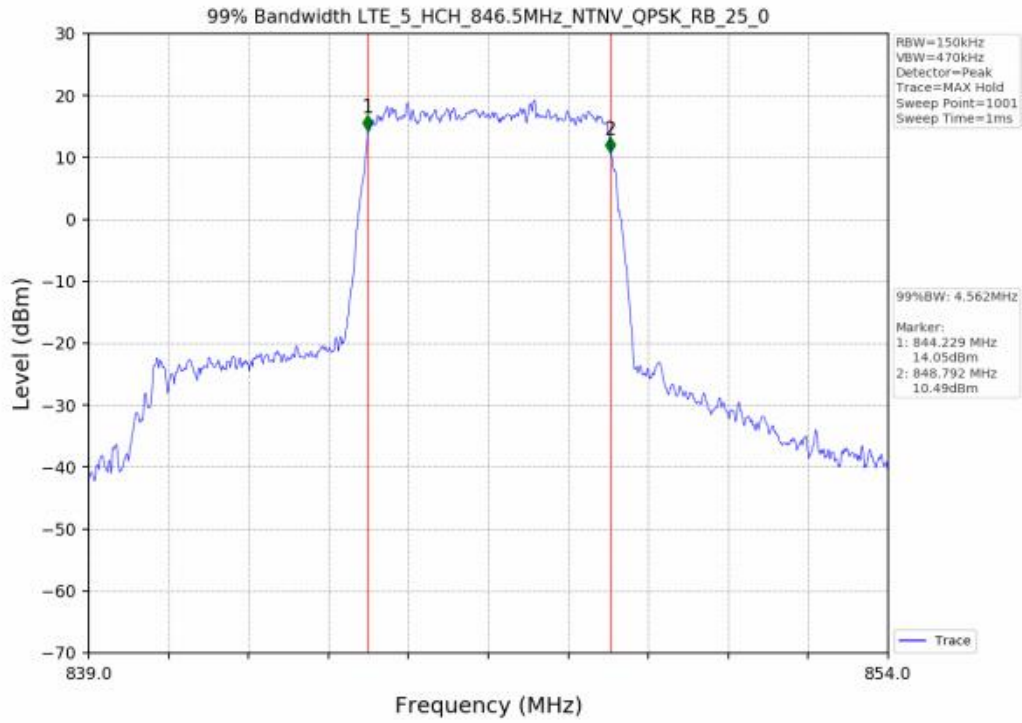


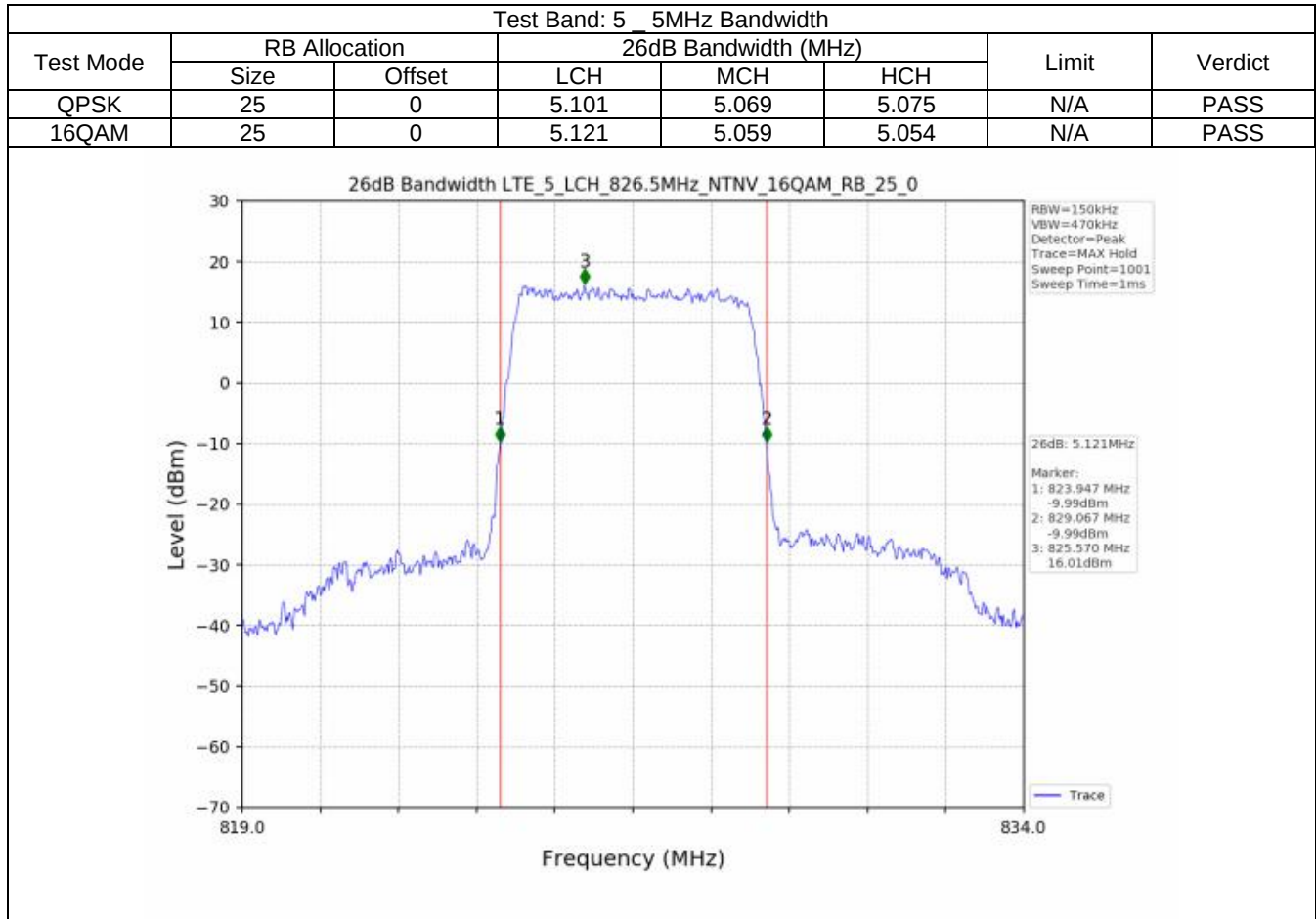


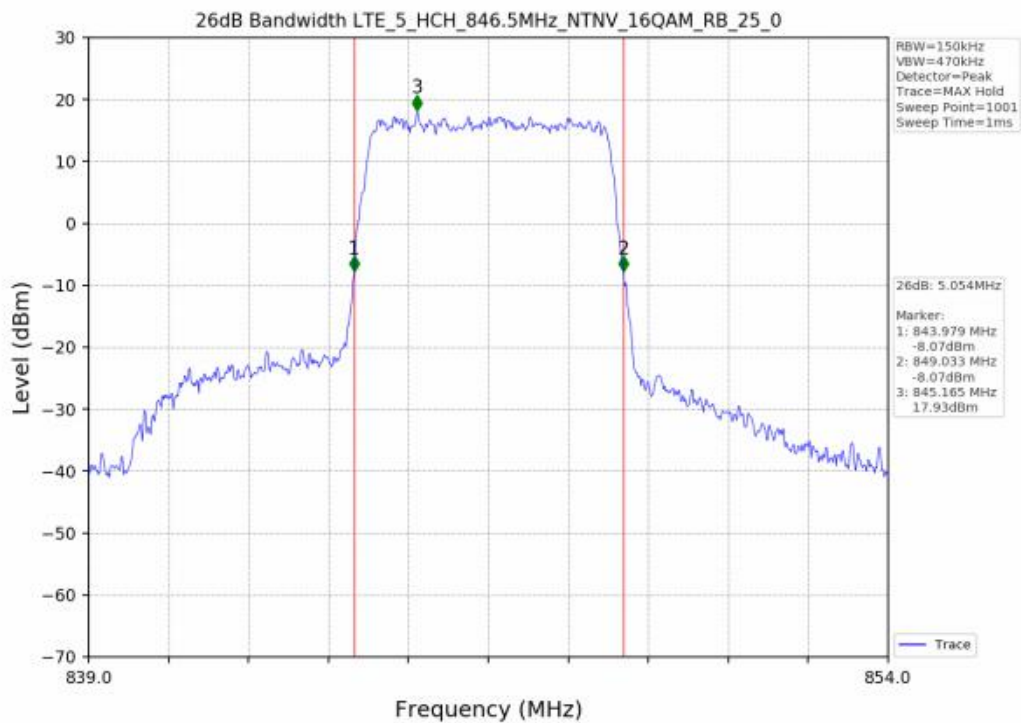
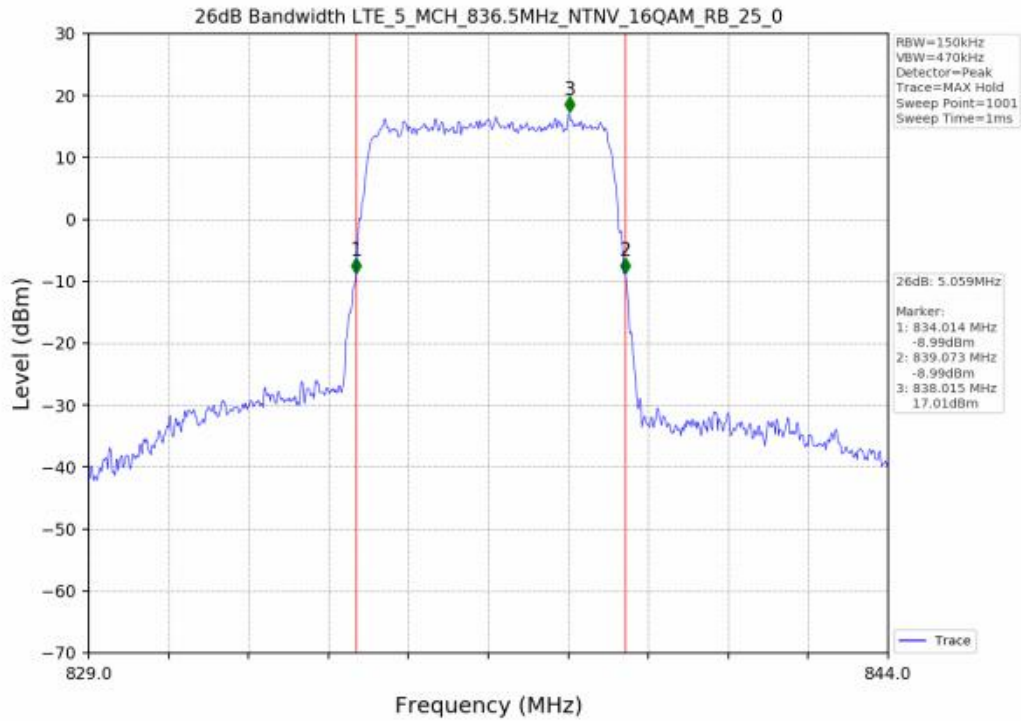


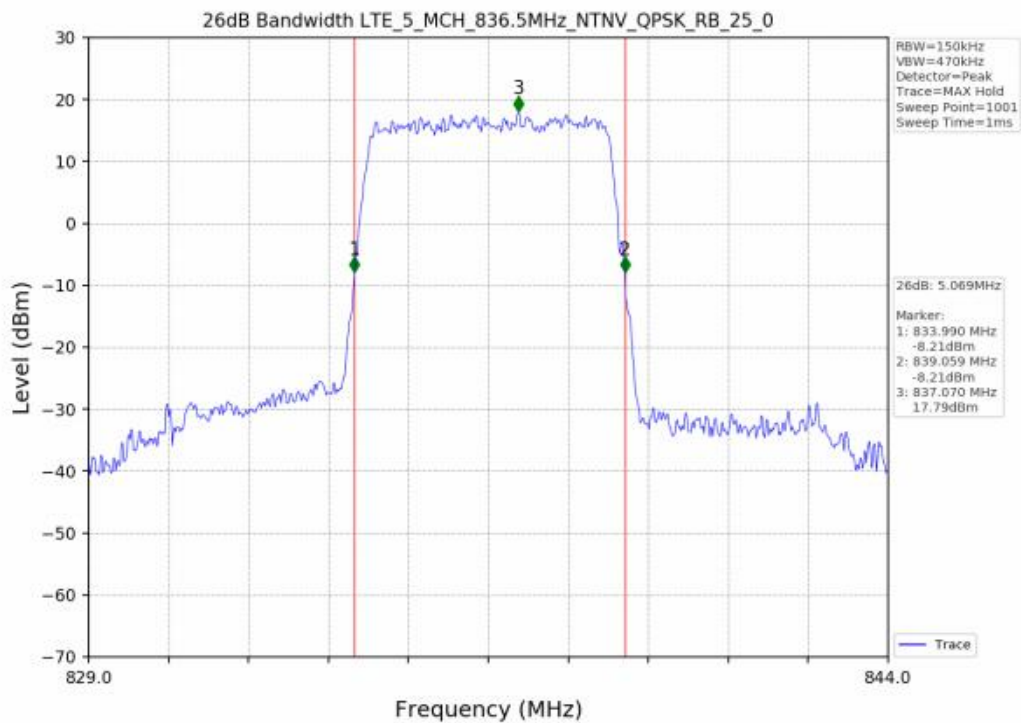
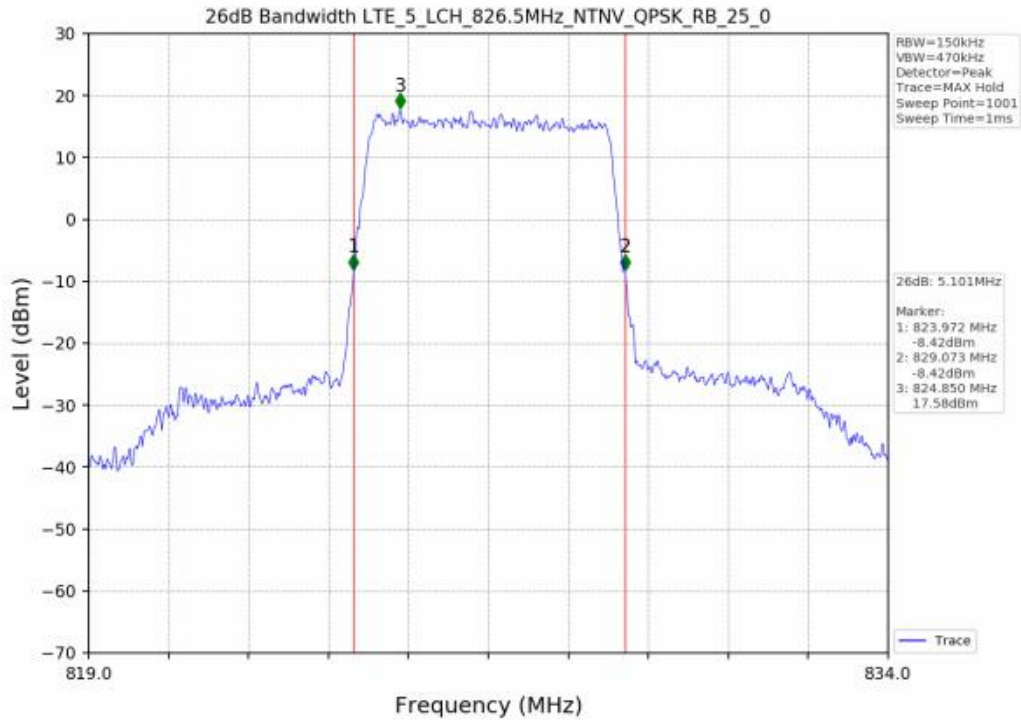


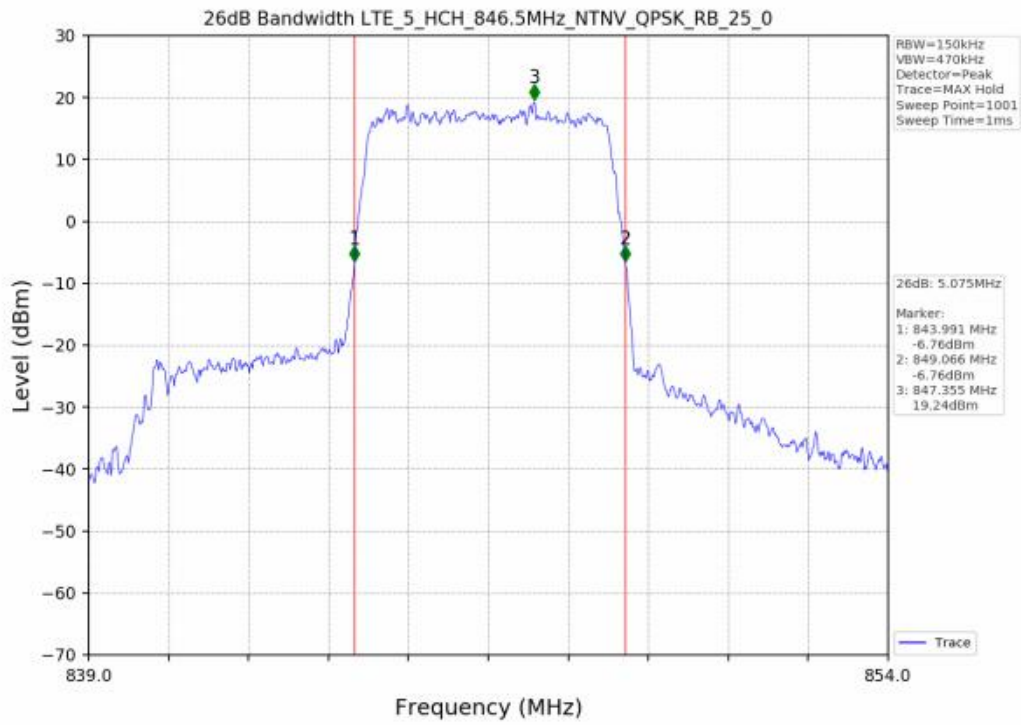


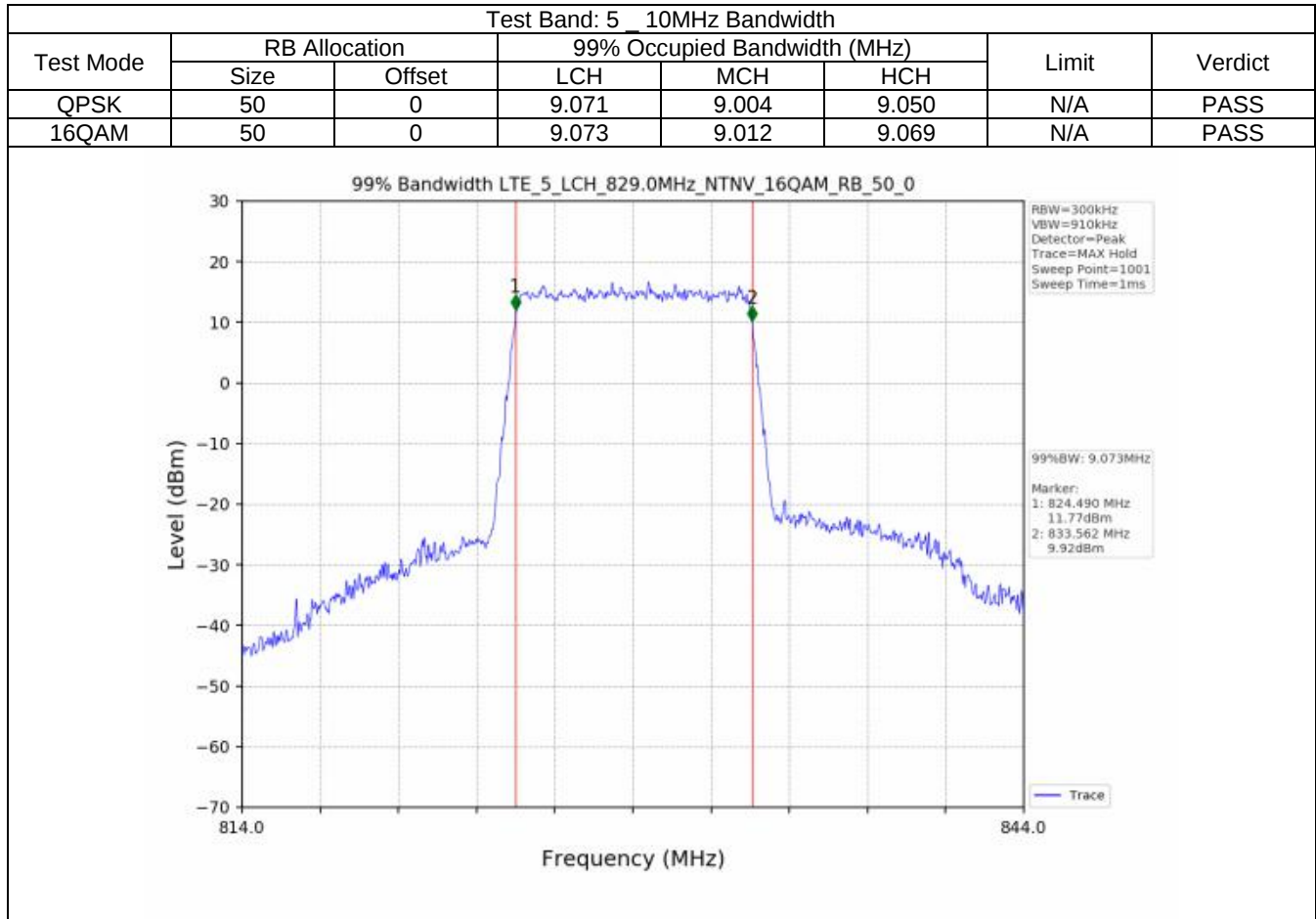


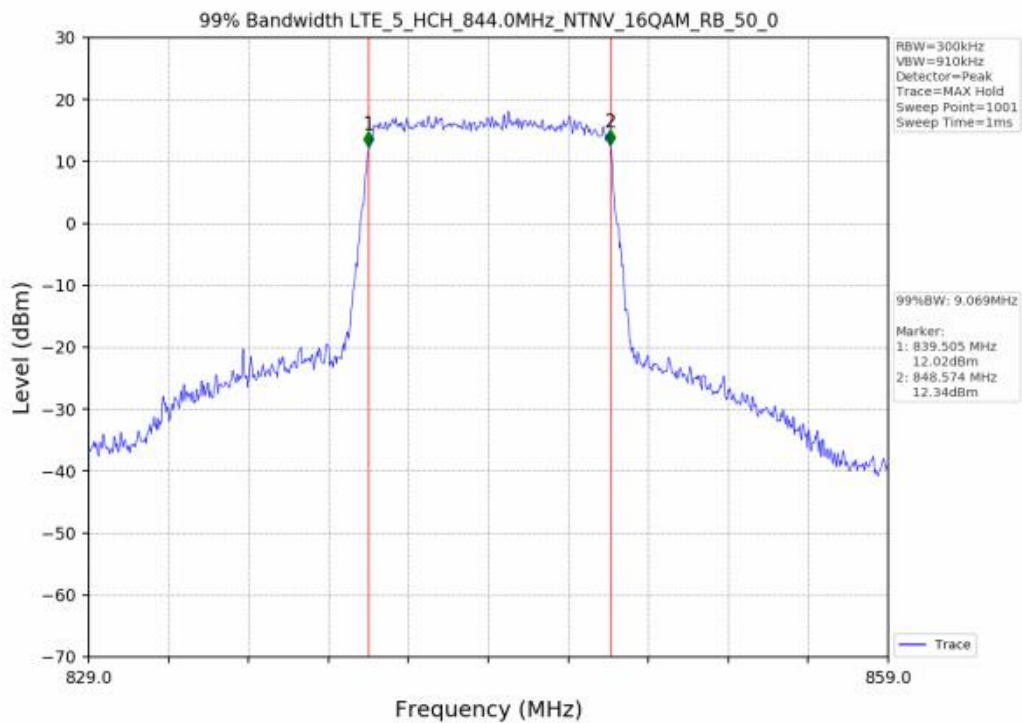
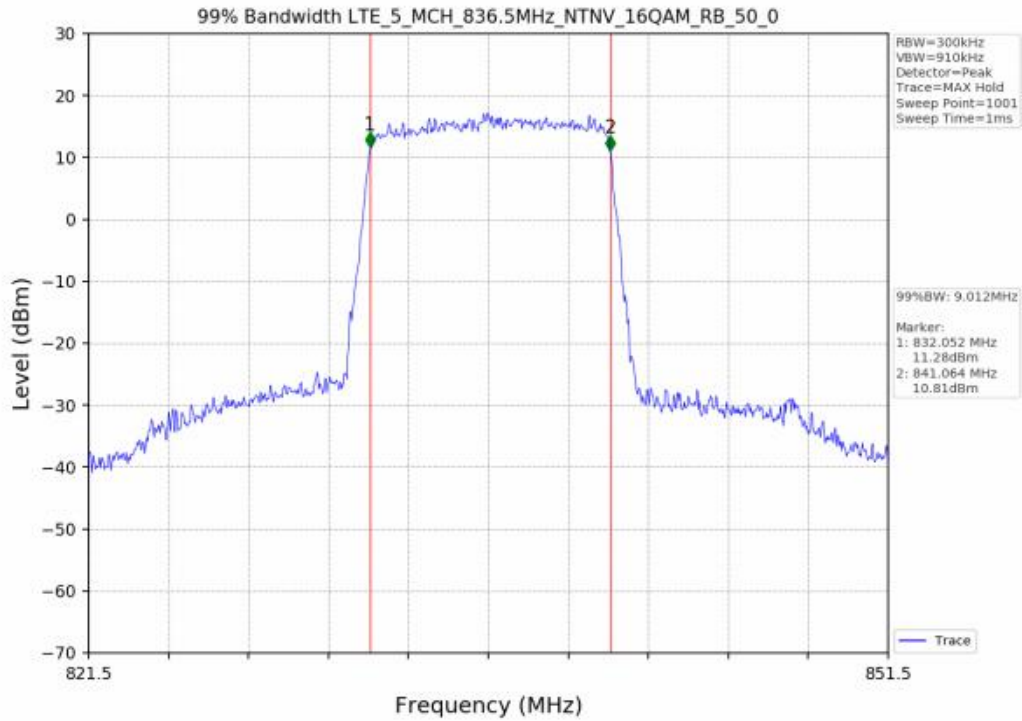


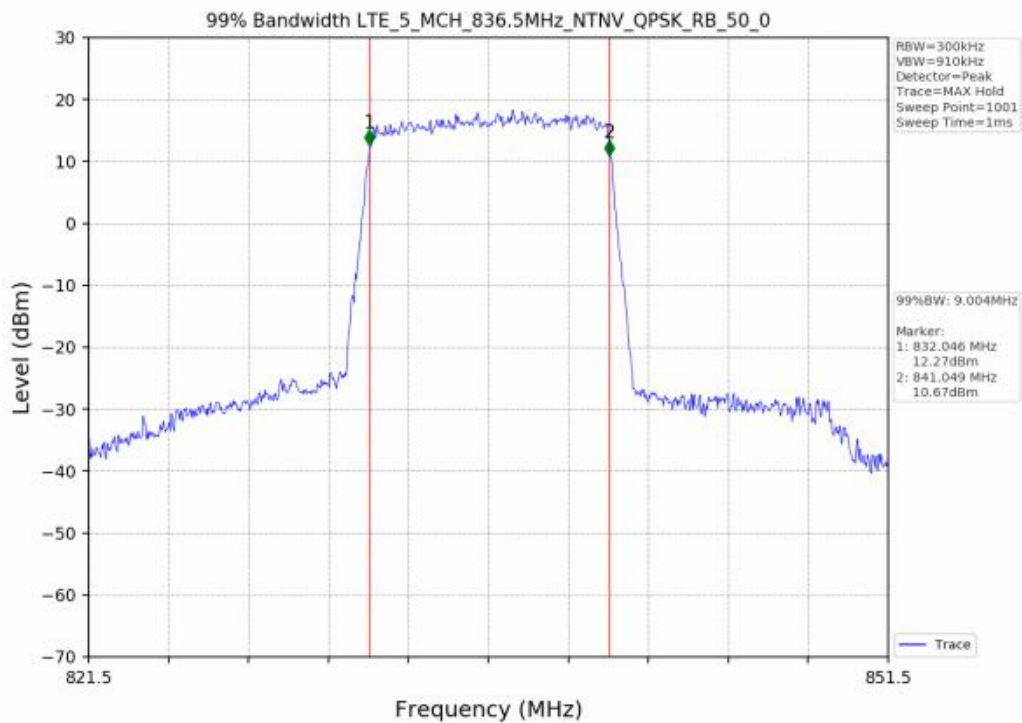
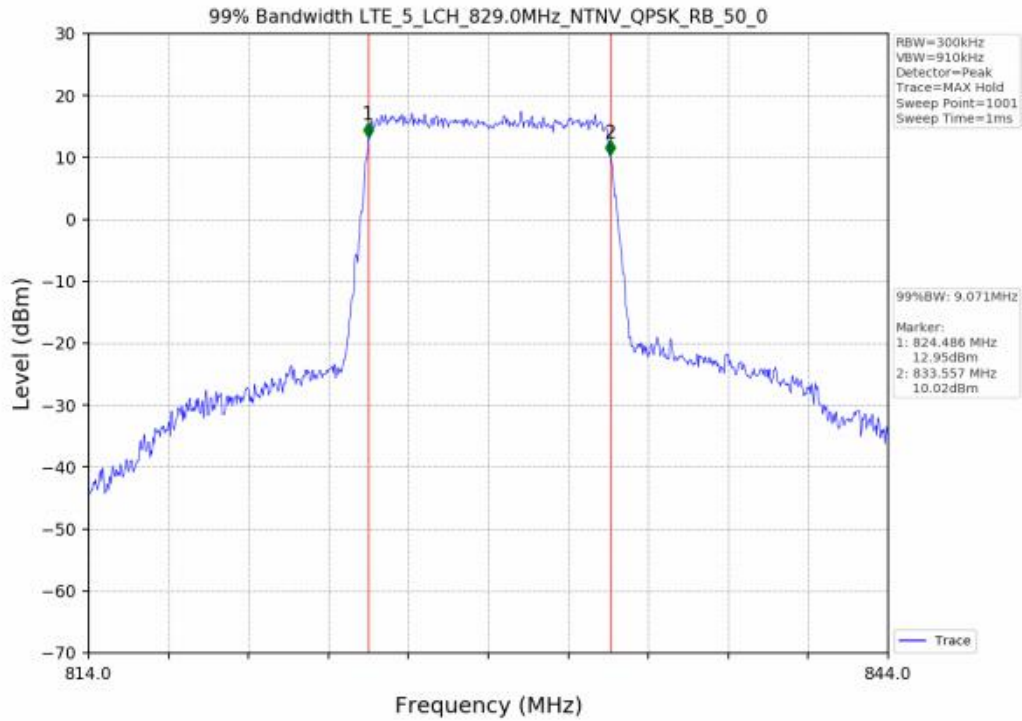


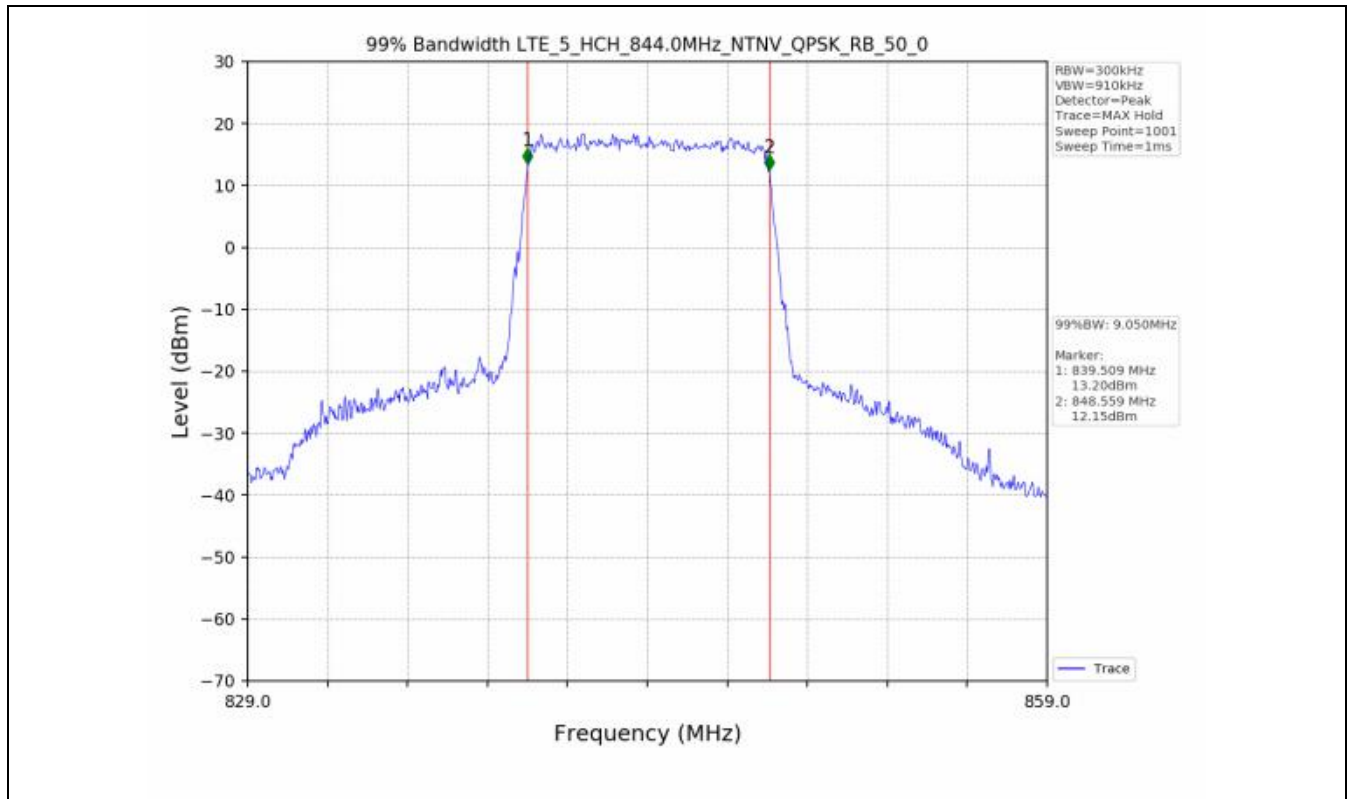




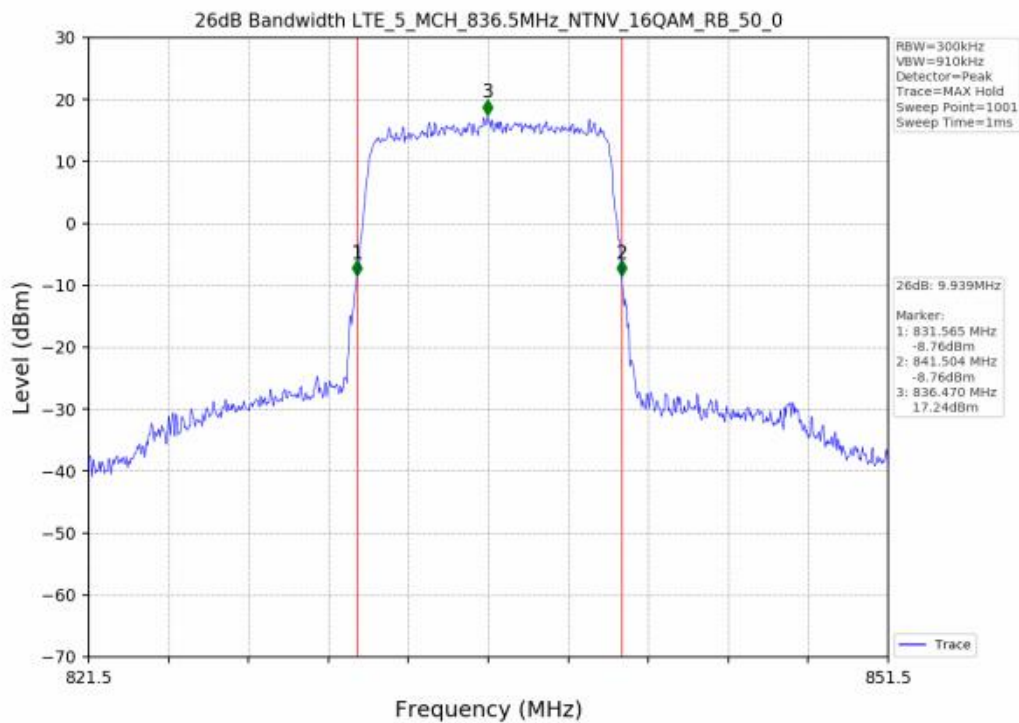
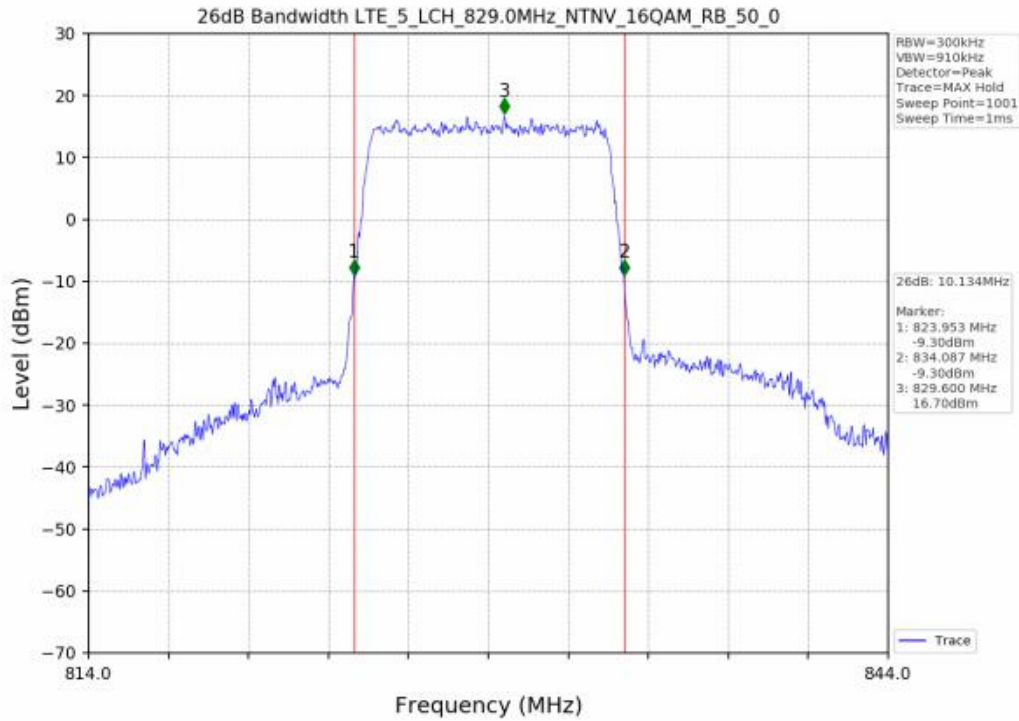


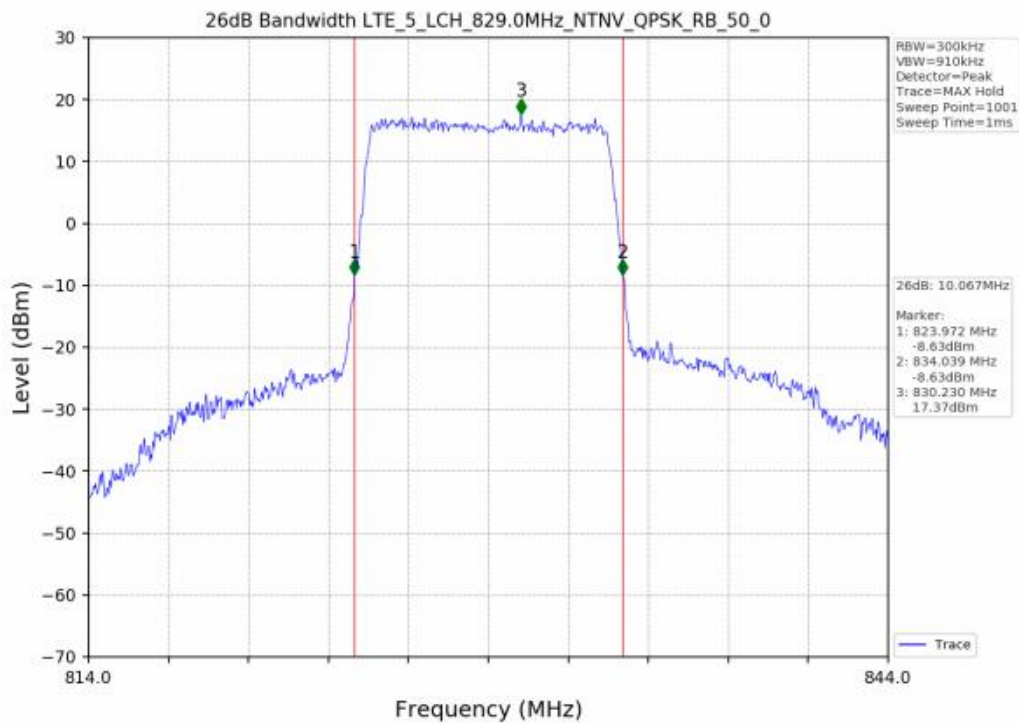
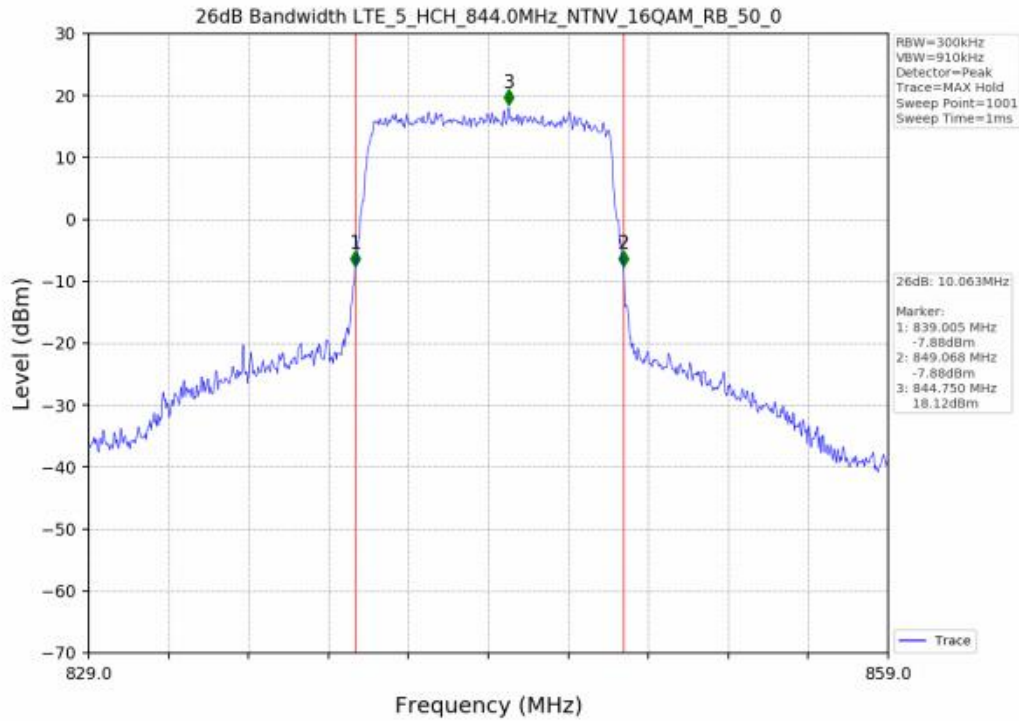


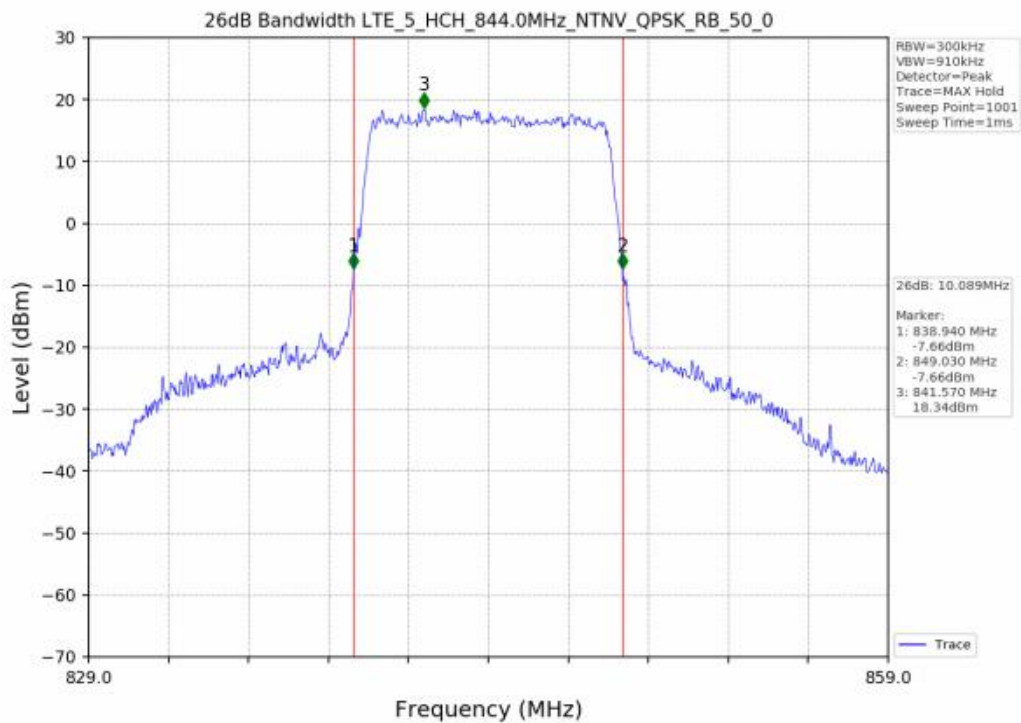
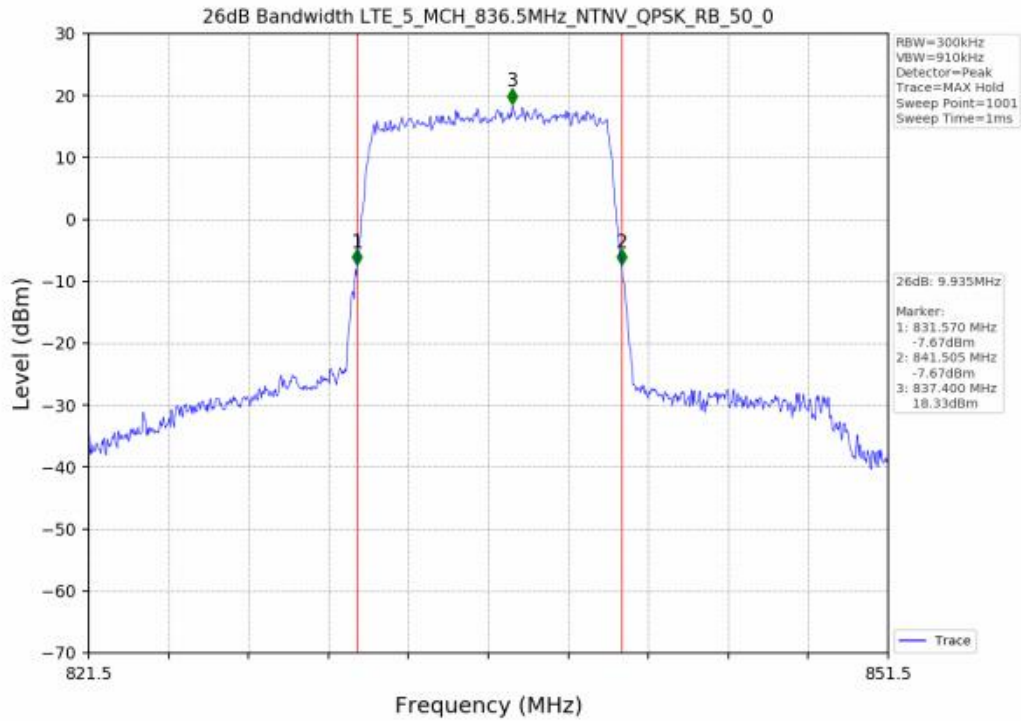




| Test Band: 5 10MHz Bandwidth |               |        |                      |       |        |       |         |
|------------------------------|---------------|--------|----------------------|-------|--------|-------|---------|
| Test Mode                    | RB Allocation |        | 26dB Bandwidth (MHz) |       |        | Limit | Verdict |
|                              | Size          | Offset | LCH                  | MCH   | HCH    |       |         |
| QPSK                         | 50            | 0      | 10.067               | 9.935 | 10.089 | N/A   | PASS    |
| 16QAM                        | 50            | 0      | 10.134               | 9.939 | 10.063 | N/A   | PASS    |

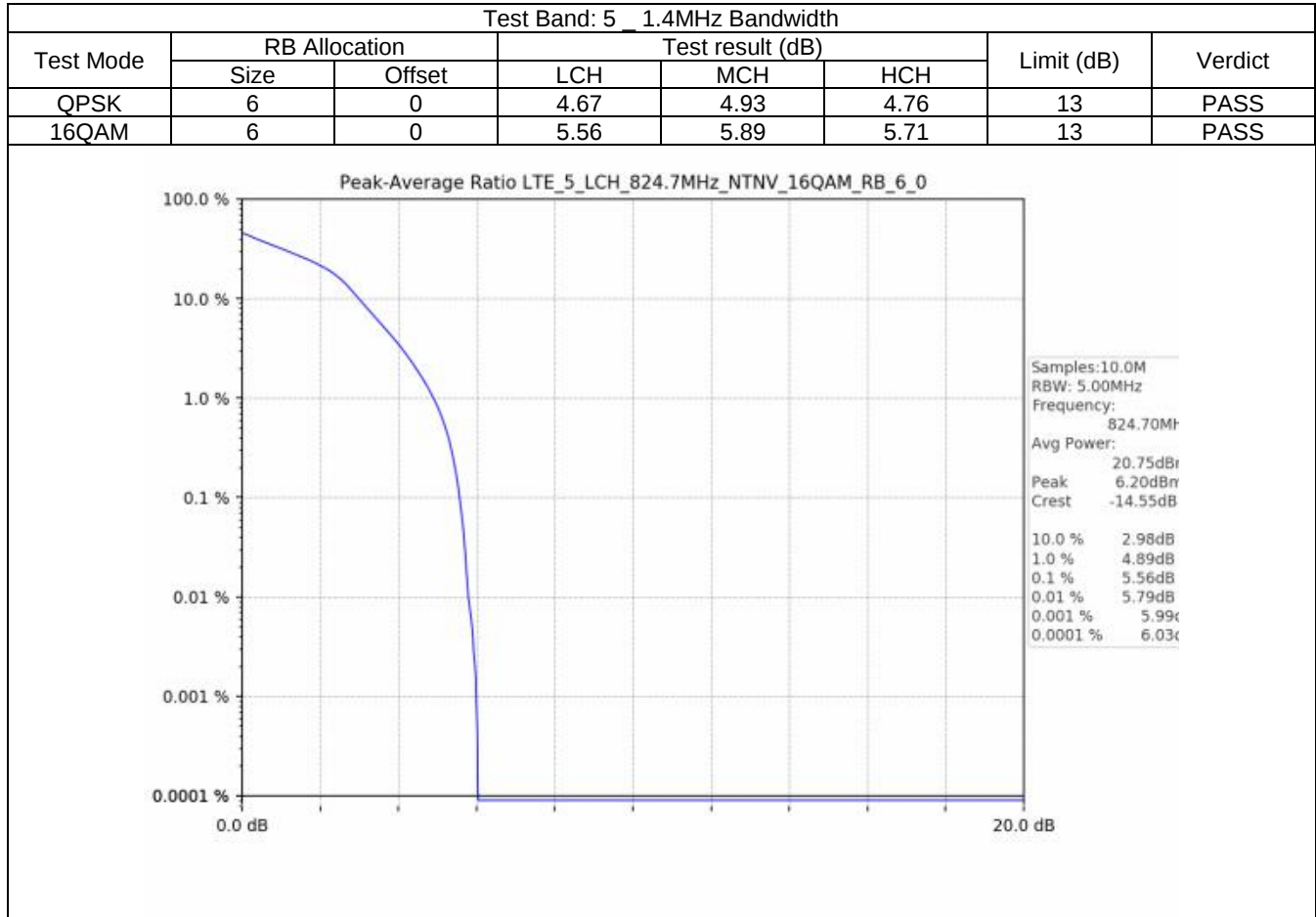


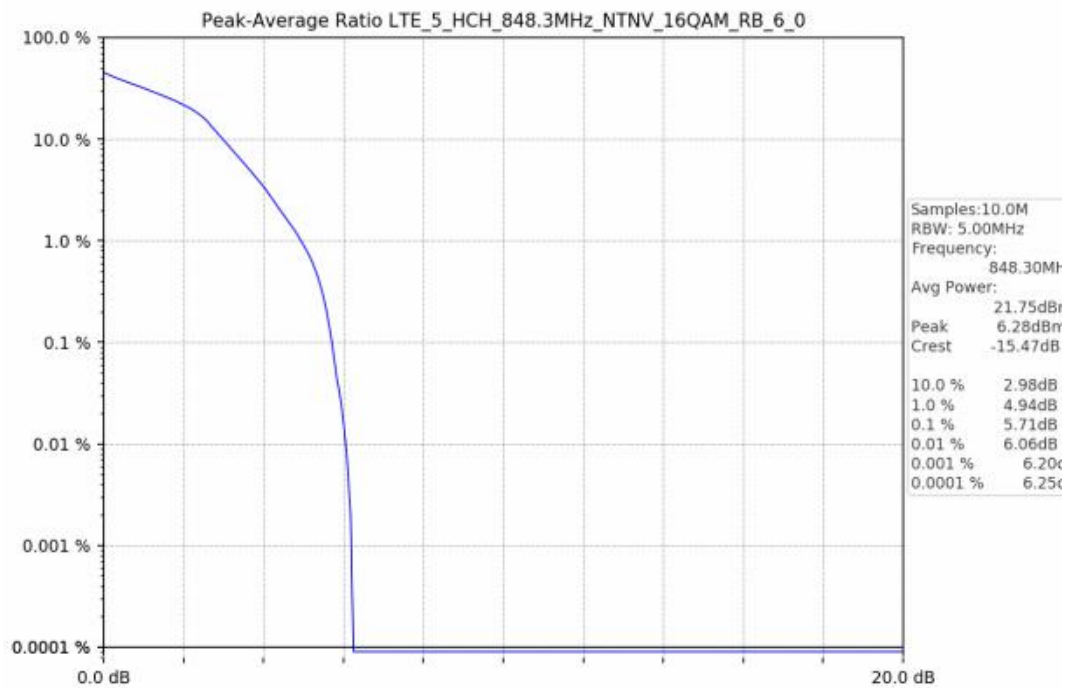
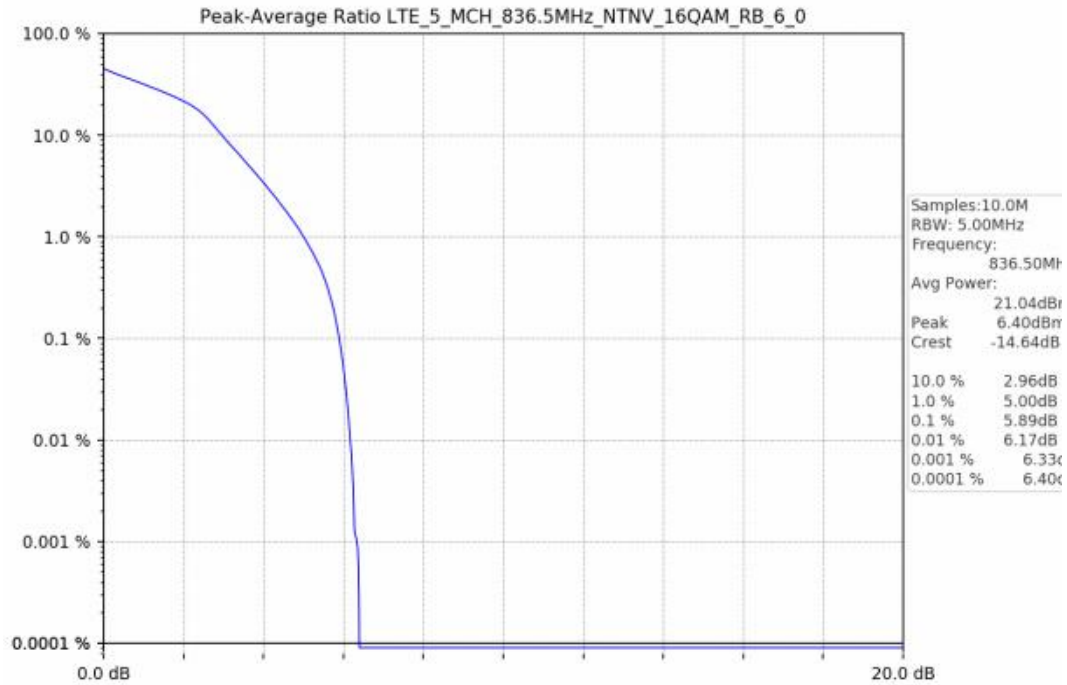




## F4. Peak-Average Ratio

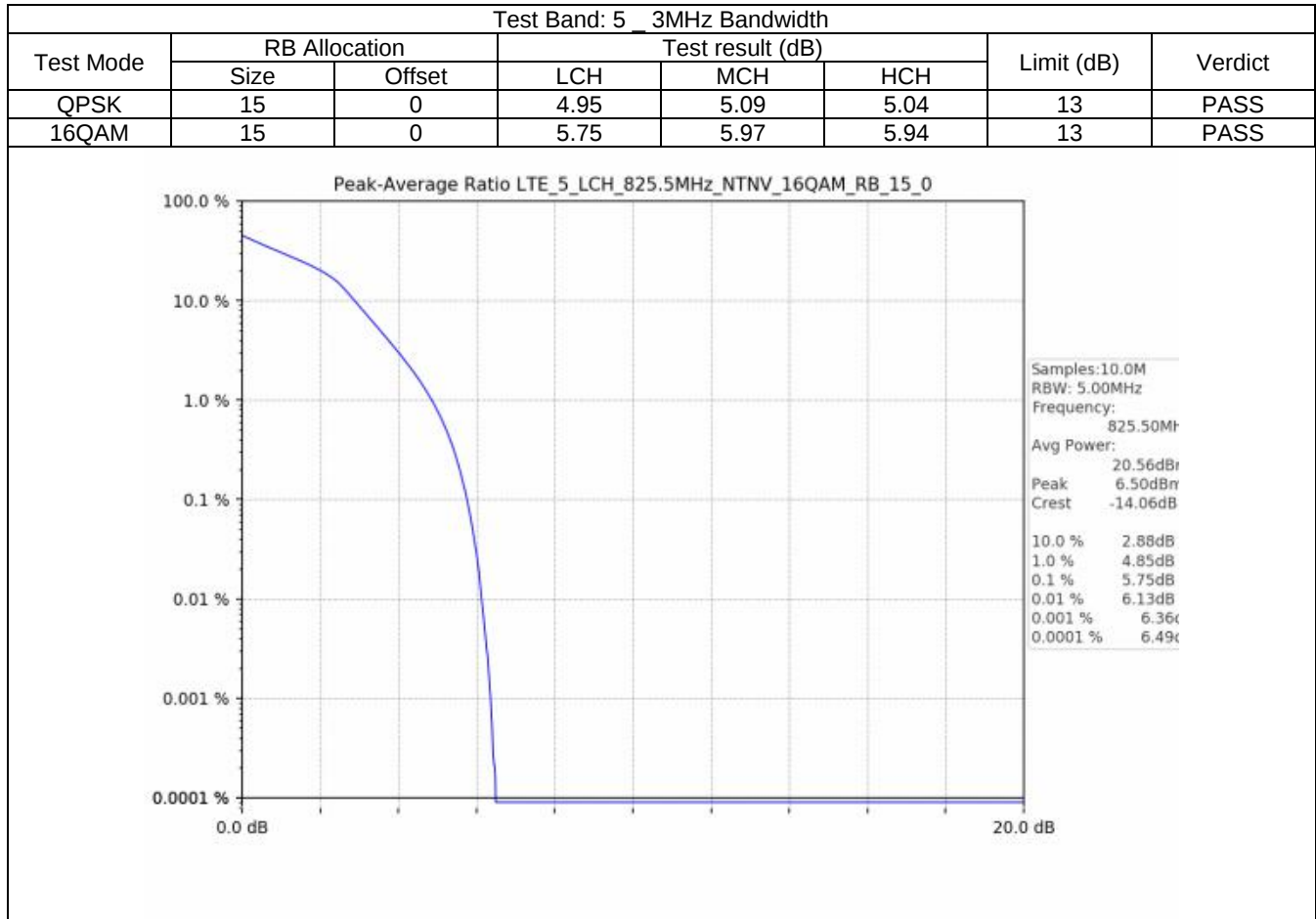
## F4.1 Test Result

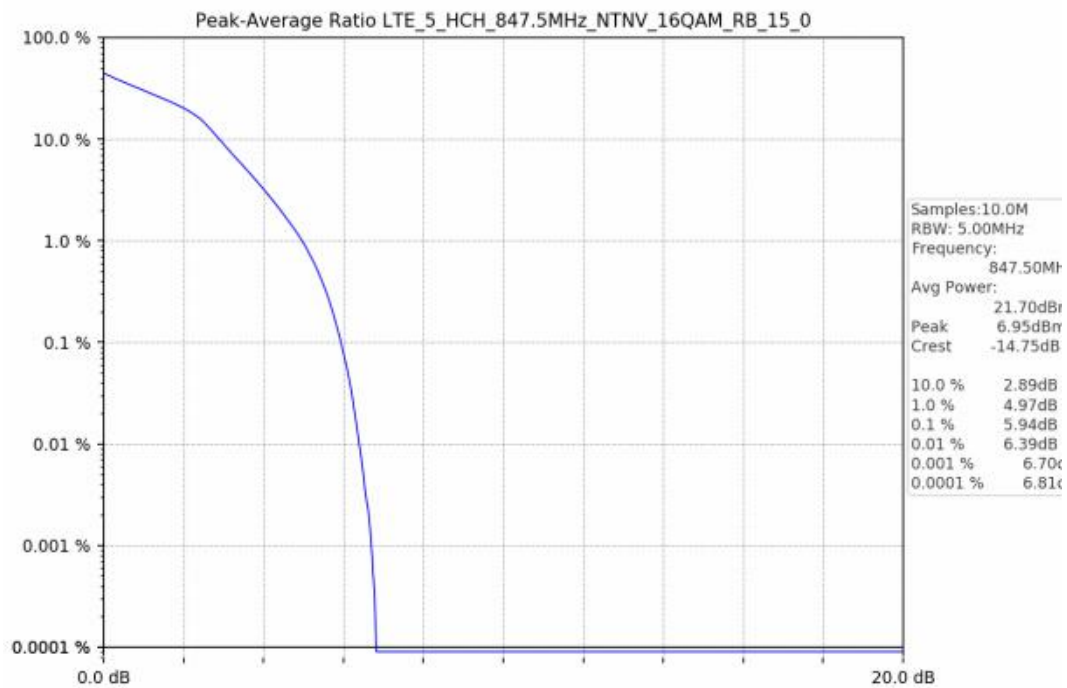
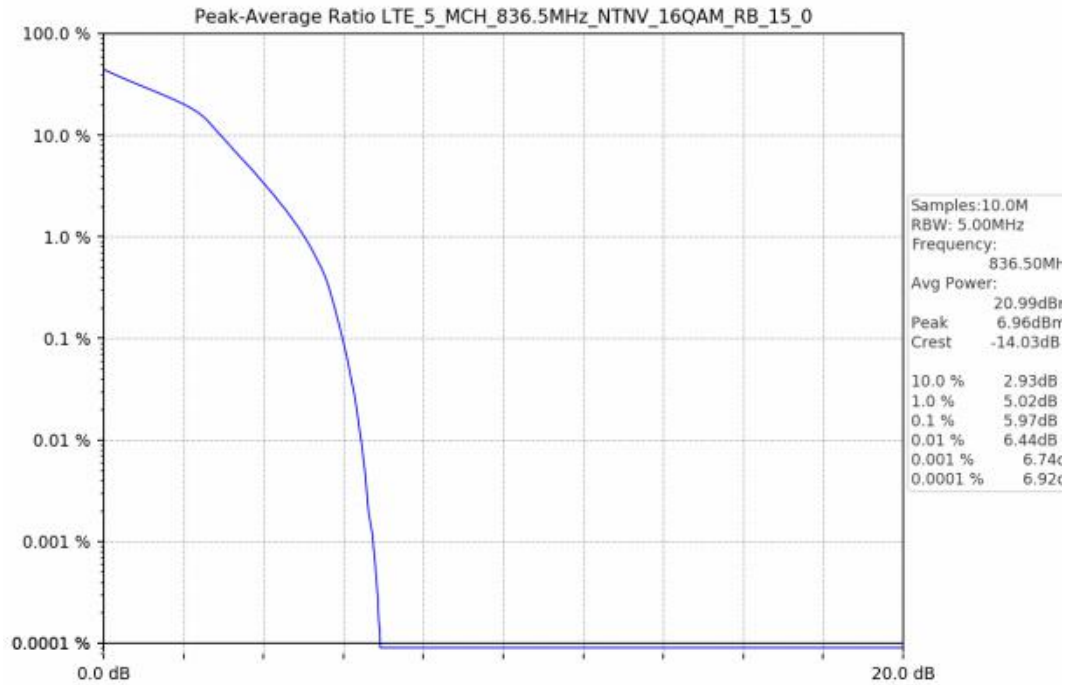


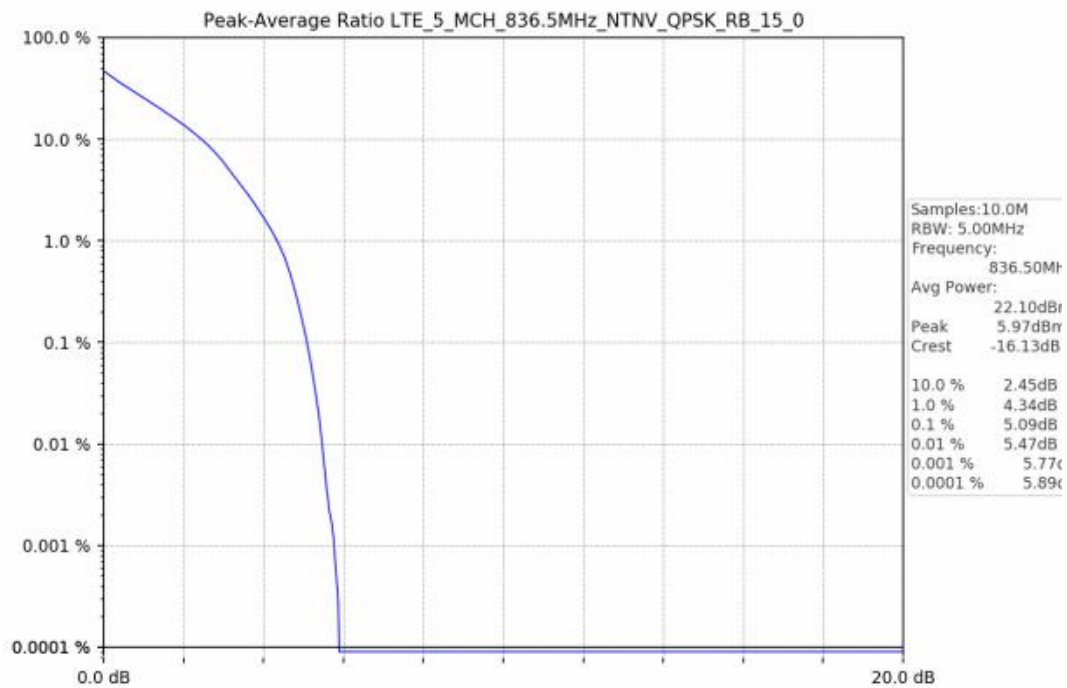
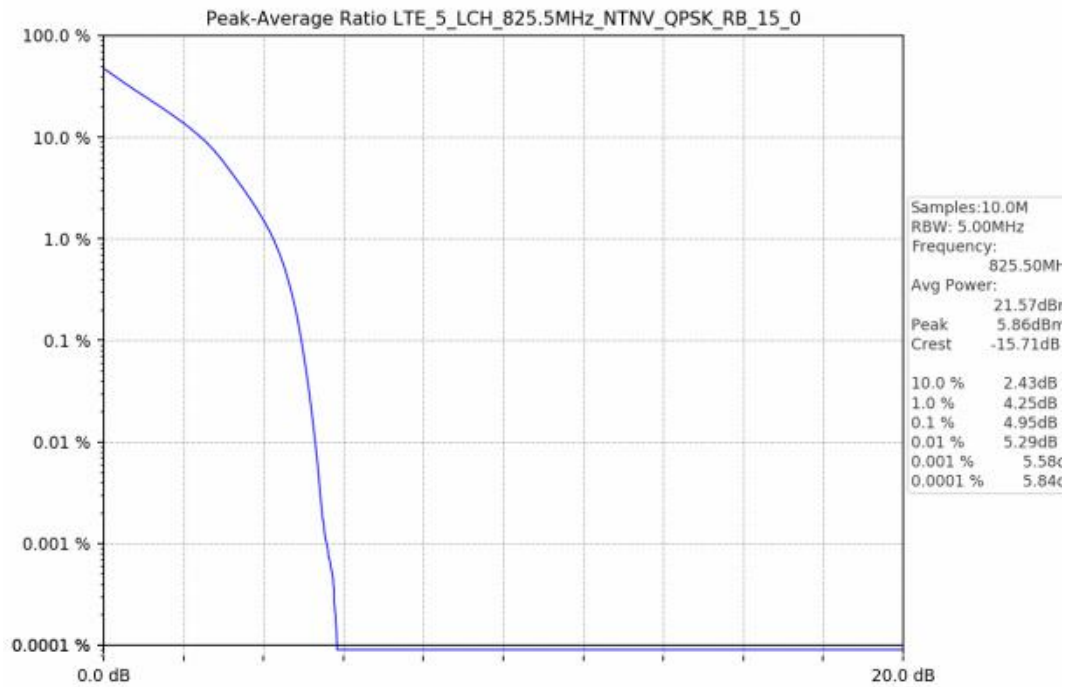


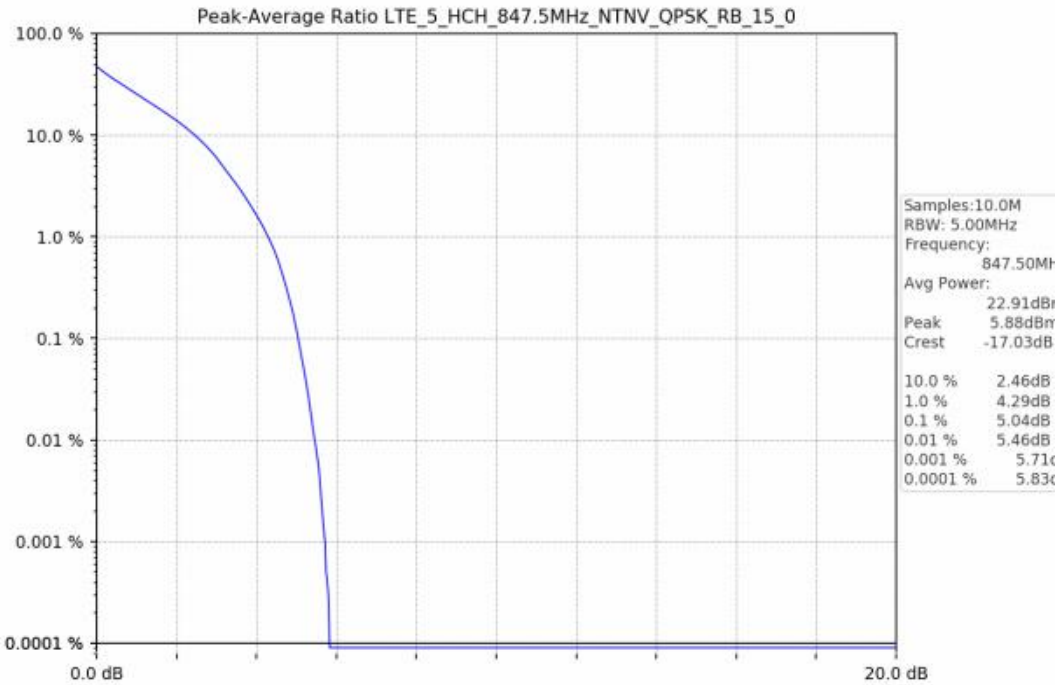


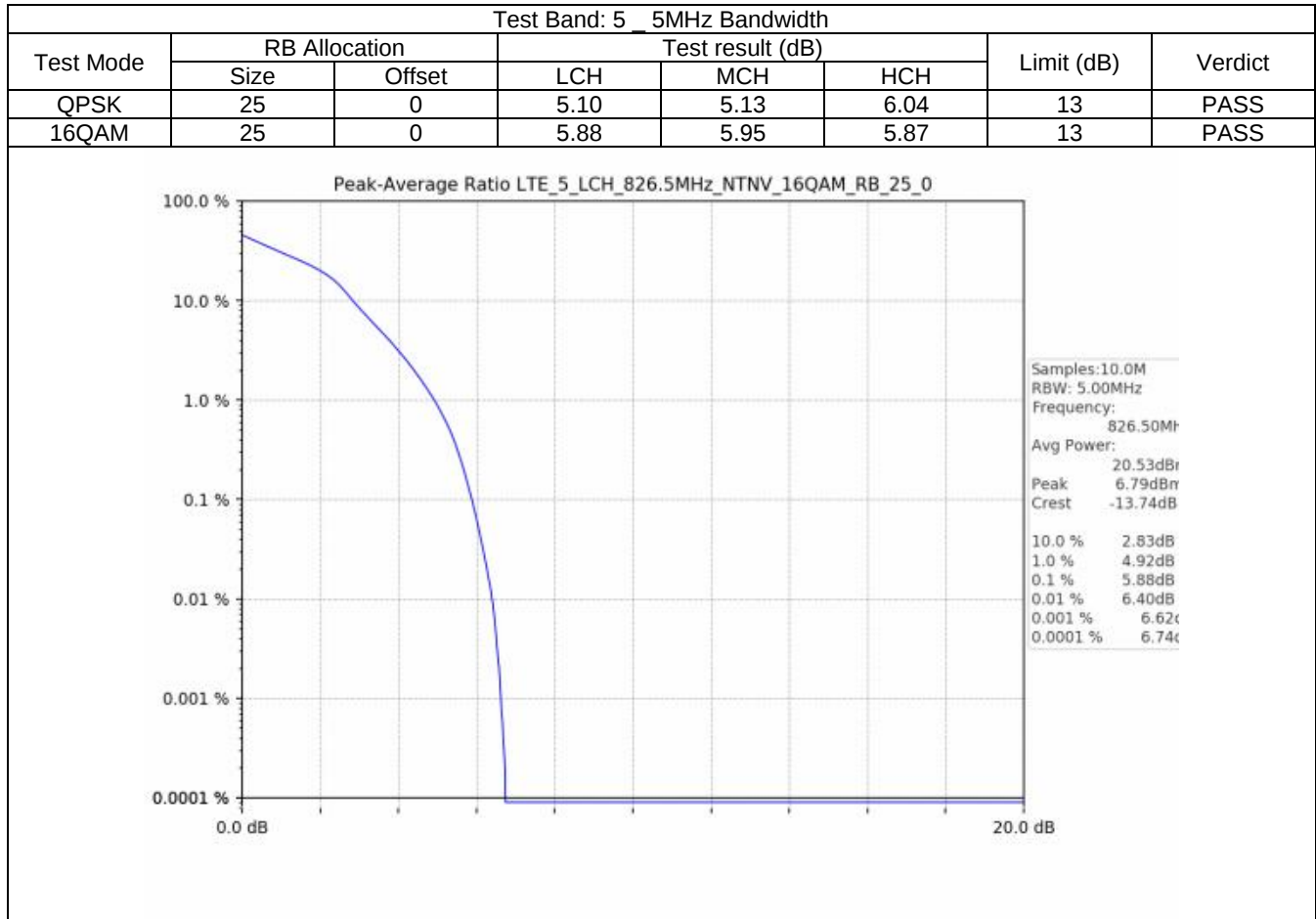


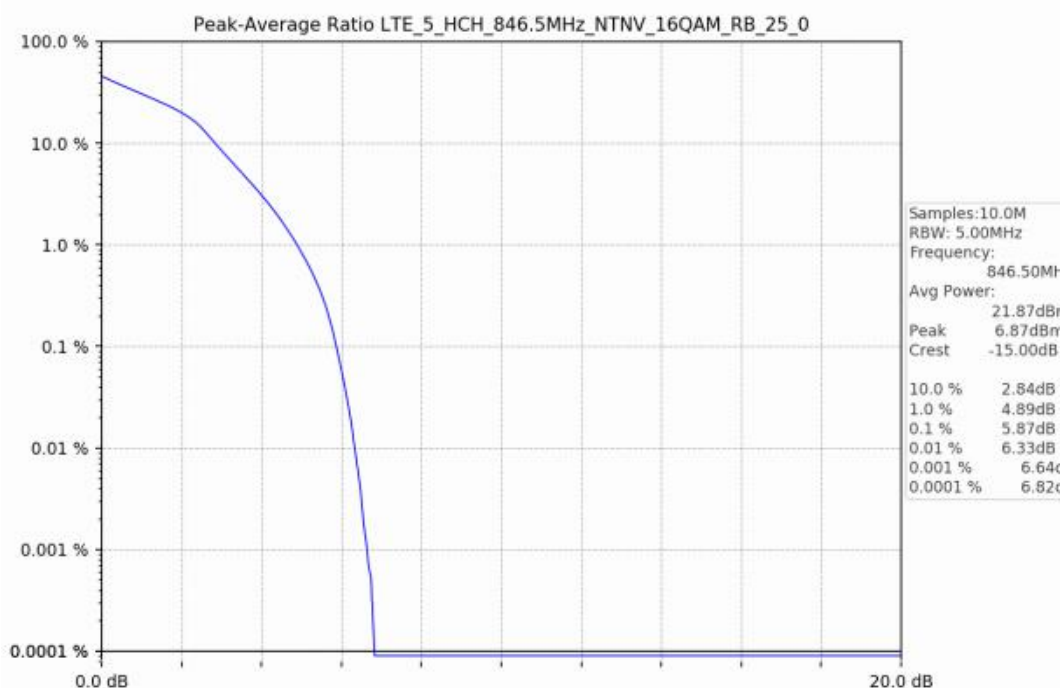
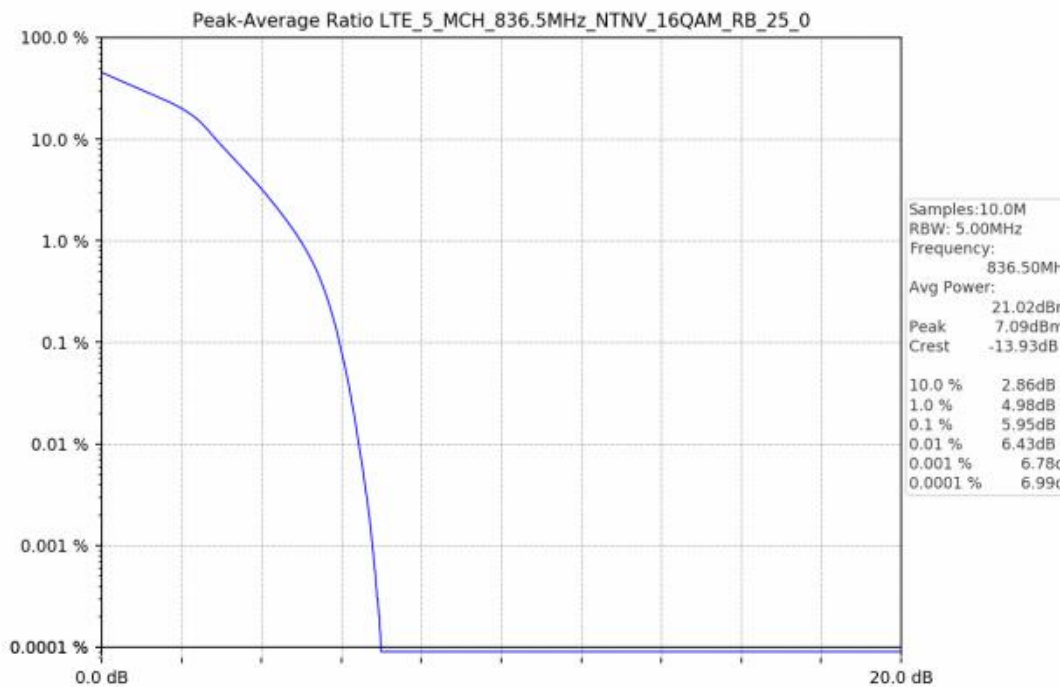


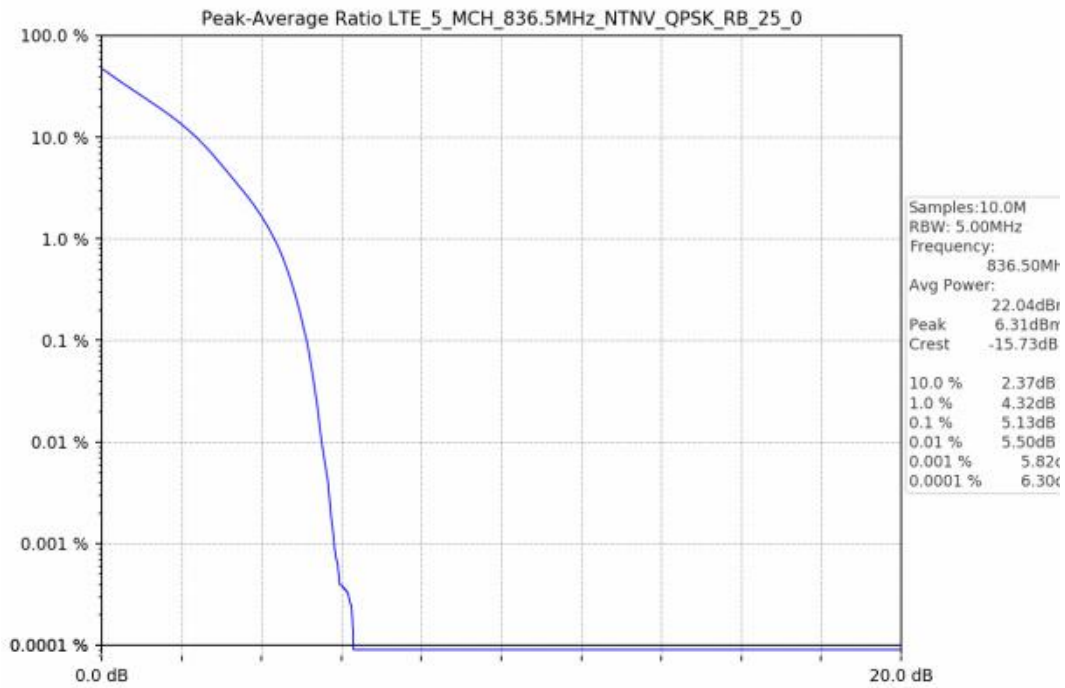
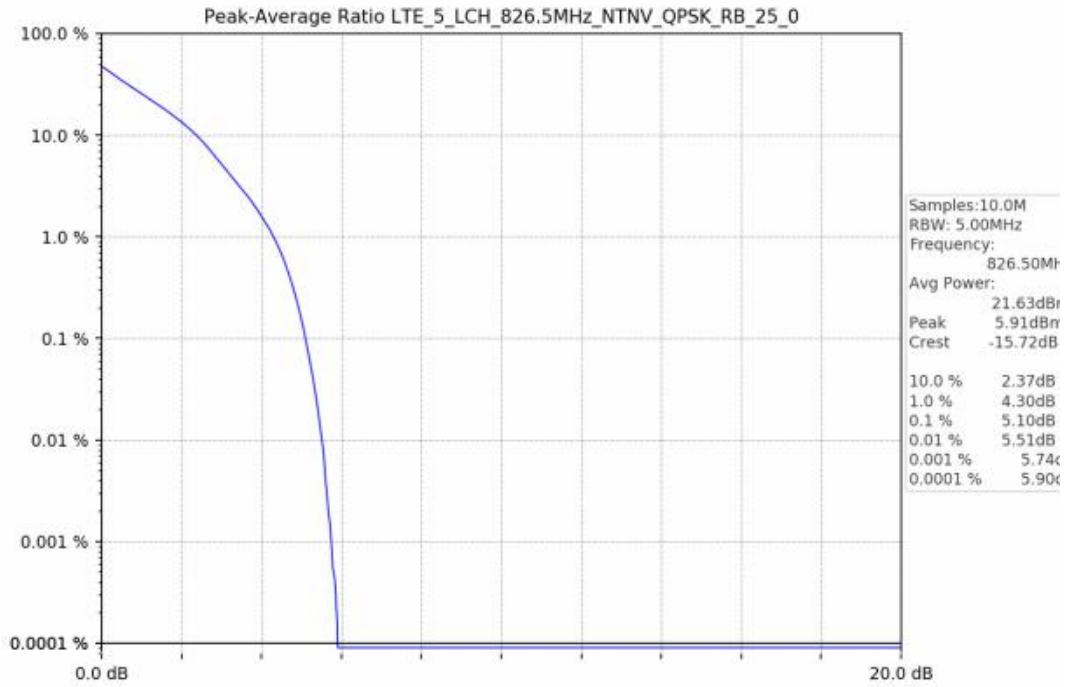


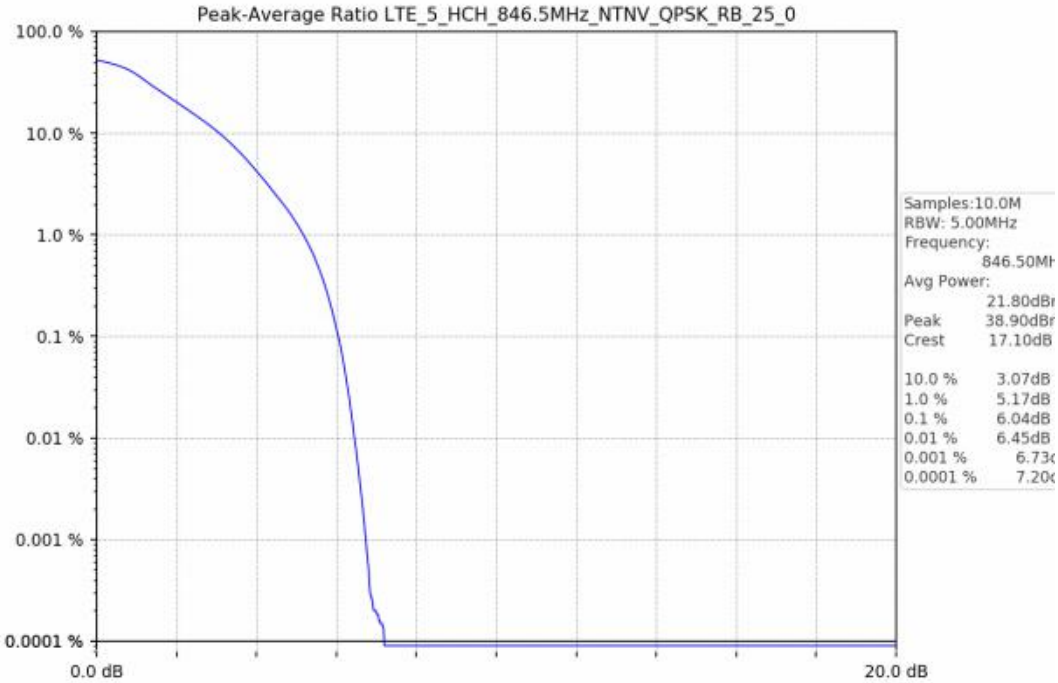


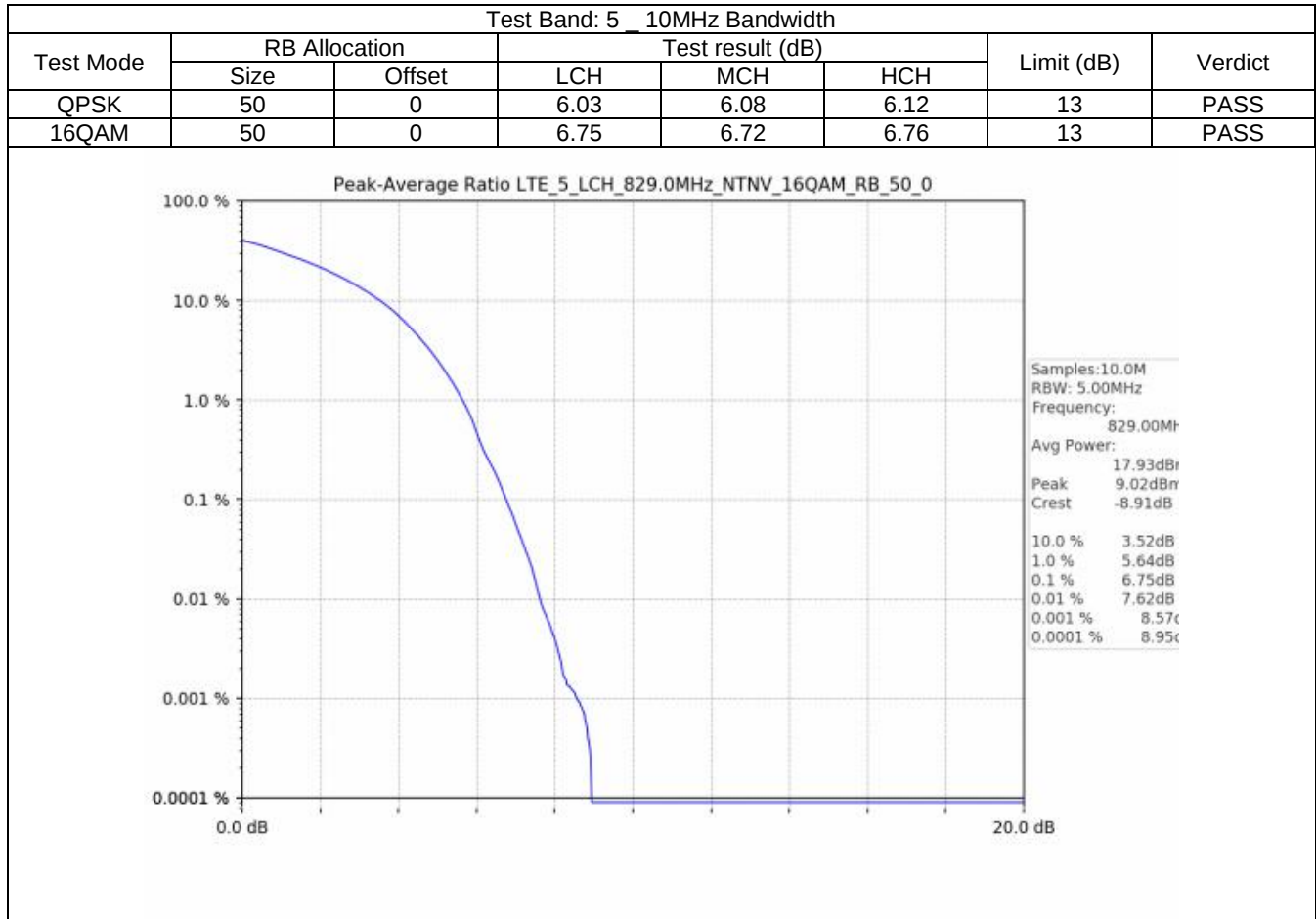


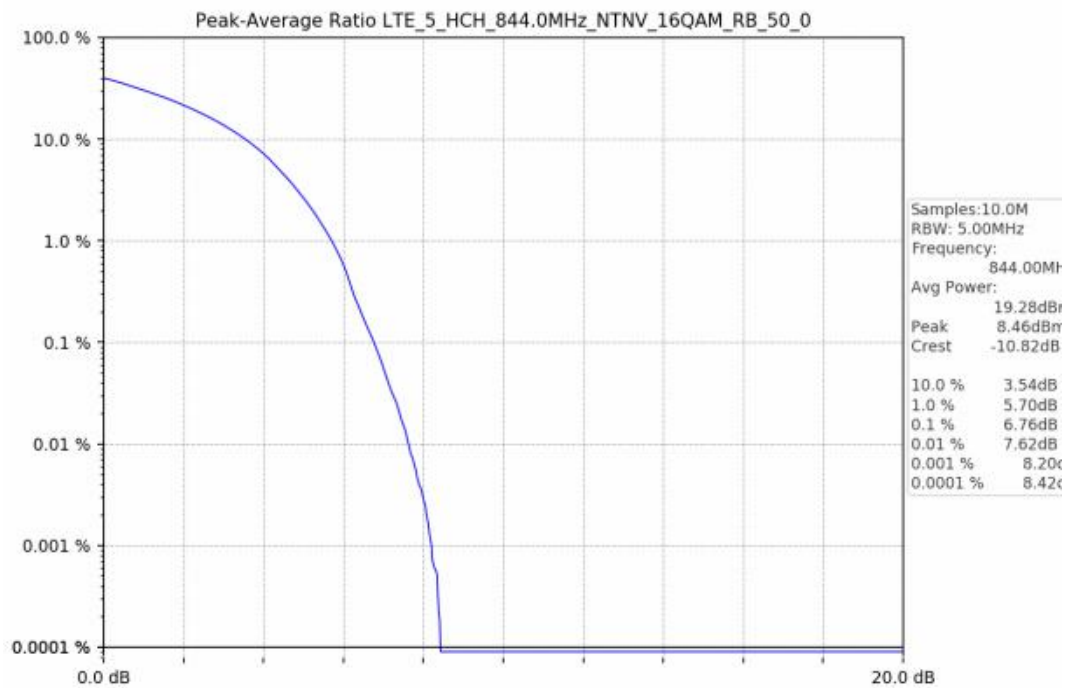
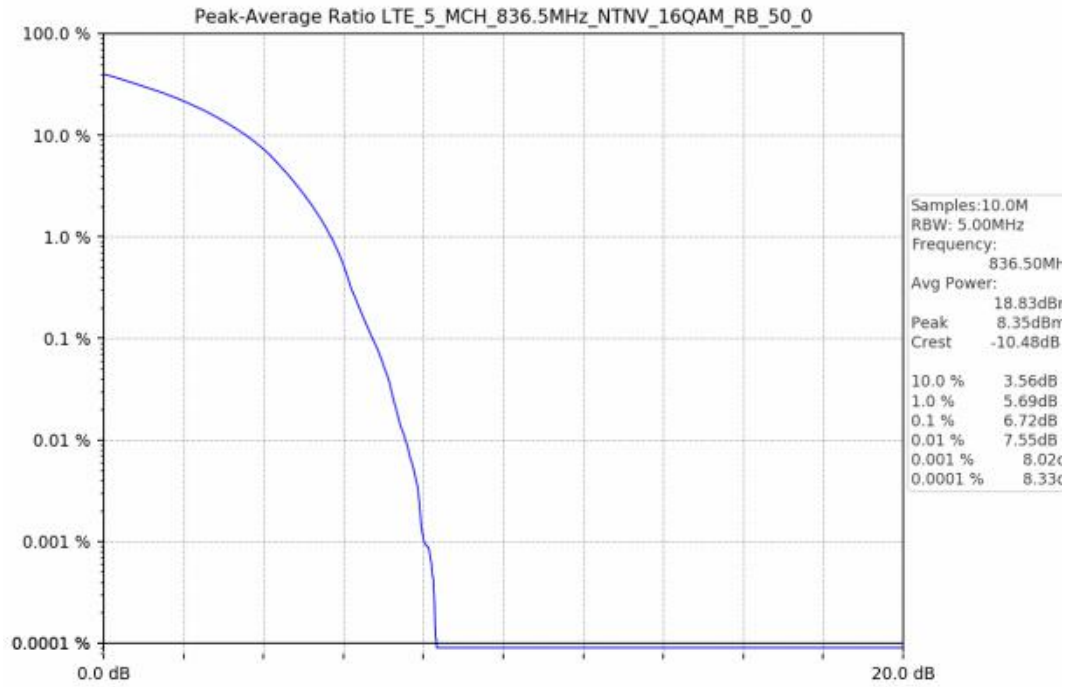


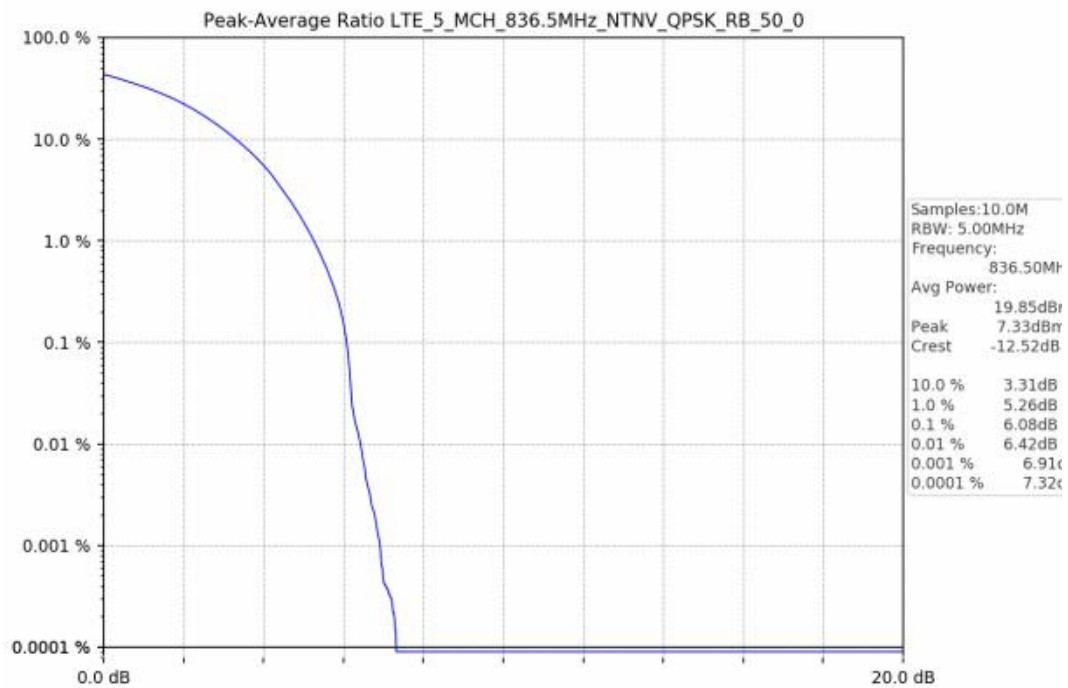
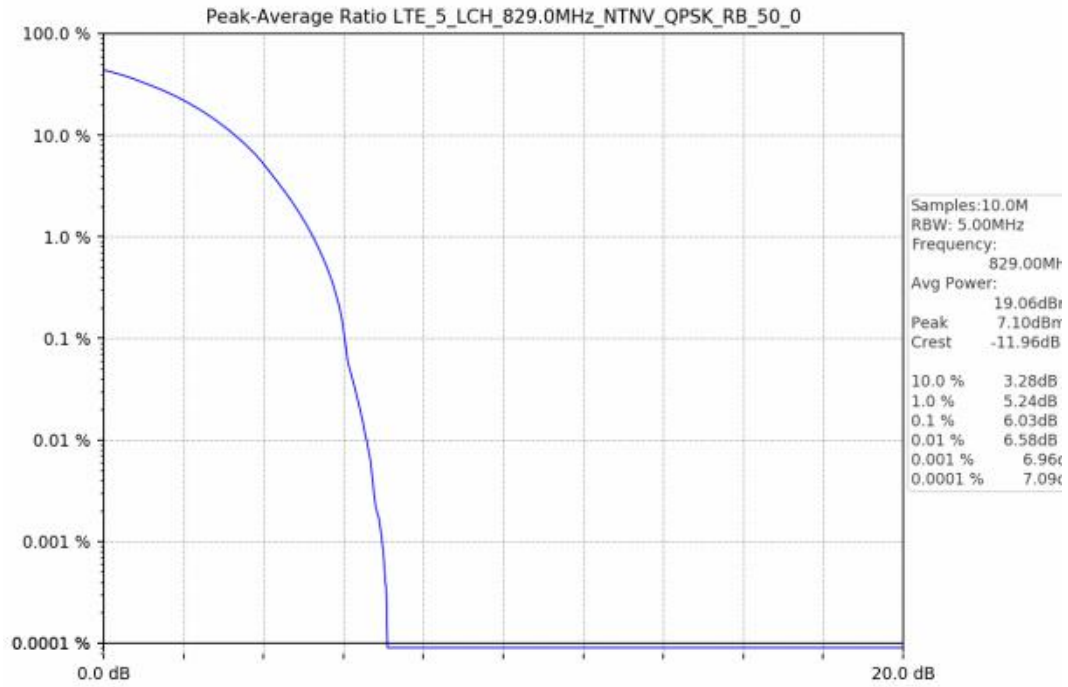














## F5. Spurious Emission

## F5.1 Test Graph

