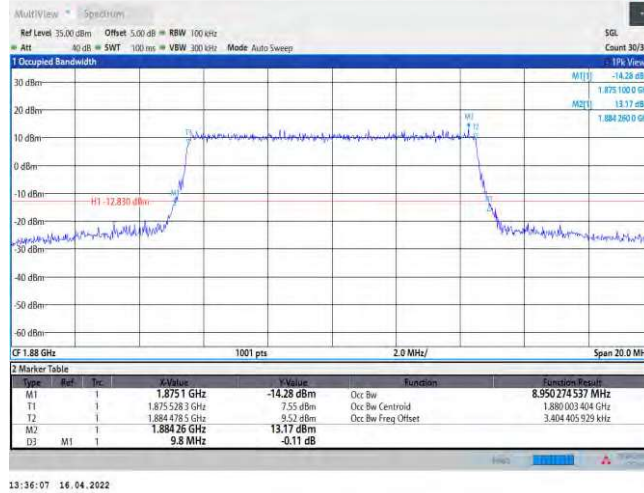
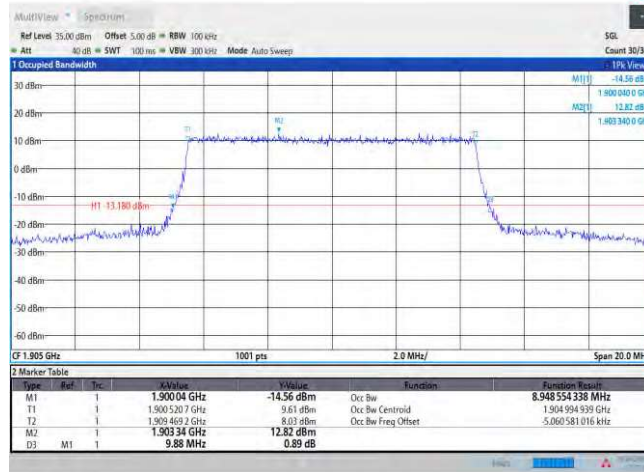


Band2-10MHz-16QAM-18900-50RB#0



13:36:07 16. 04. 2022

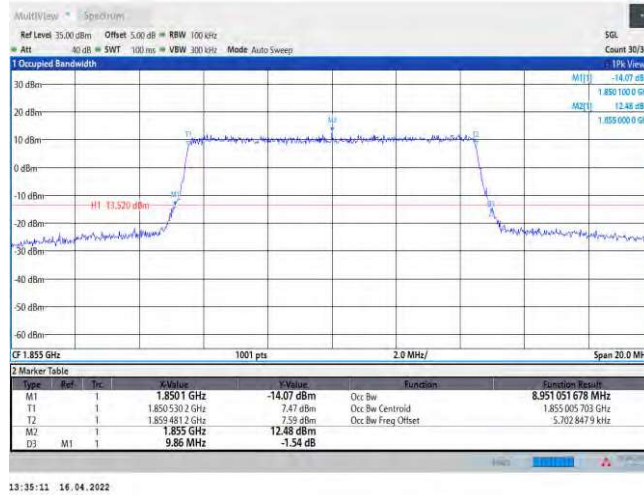
Band2-10MHz-16QAM-19150-50RB#0



13:37:23 16. 04. 2022

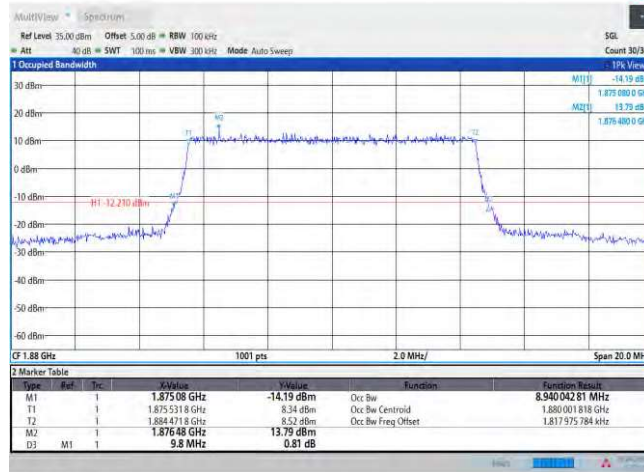


Band2-10MHz-64QAM-18650-50RB#0



13:35:11 16.04.2022

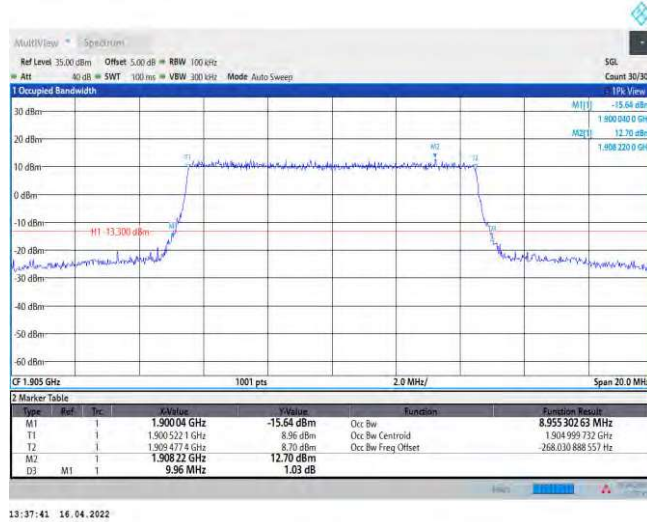
Band2-10MHz-64QAM-18900-50RB#0



13:36:24 16.04.2022

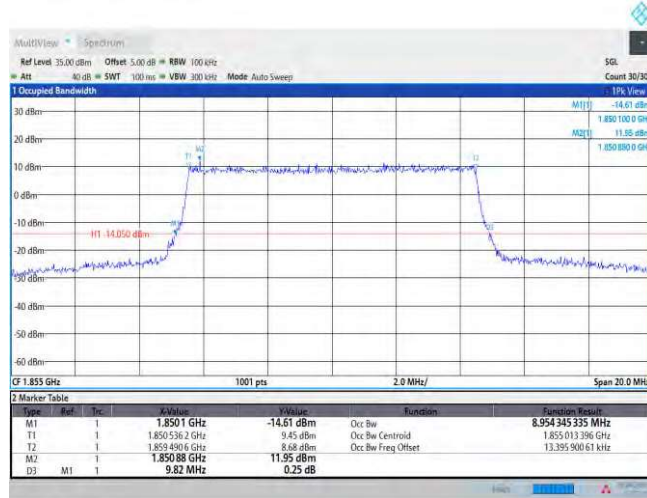


Band2-10MHz-64QAM-19150-50RB#0



13:37:41 16. 04. 2022

Band2-10MHz-256QAM-18650-50RB#0



13:35:29 16. 04. 2022

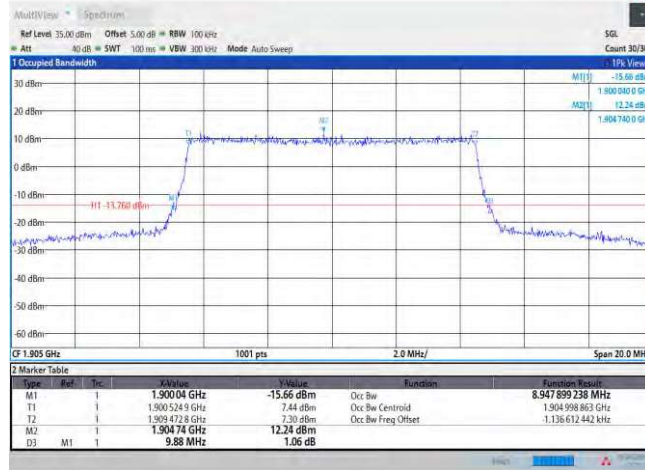


Band2-10MHz-256QAM-18900-50RB#0



13:36:44 16.04.2022

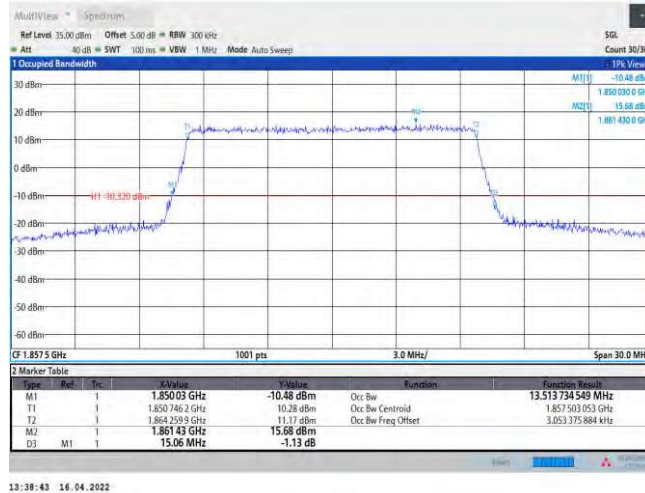
Band2-10MHz-256QAM-19150-50RB#0



13:37:59 16.04.2022

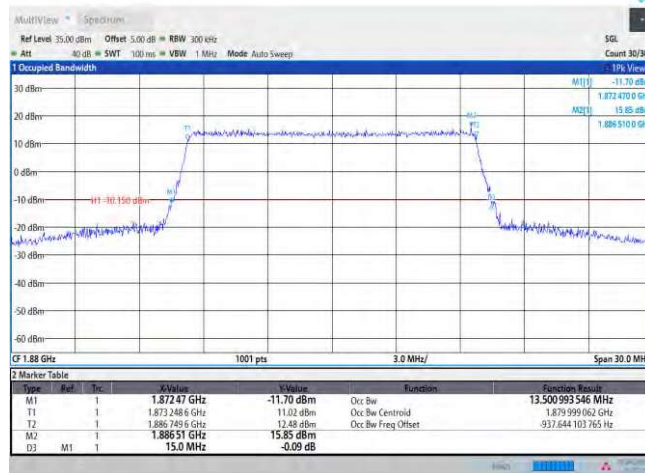


Band2-15MHz-QPSK-18675-75RB#0



13:38:43 16.04.2022

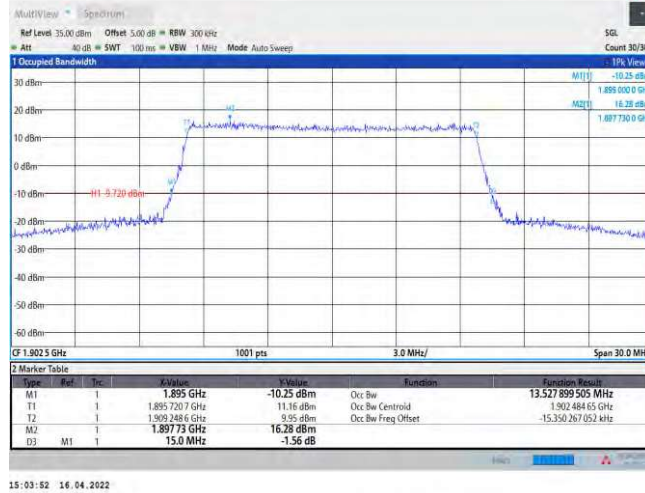
Band2-15MHz-QPSK-18900-75RB#0



15:03:34 16.04.2022



Band2-15MHz-QPSK-19125-75RB#0



15:03:52 16.04.2022

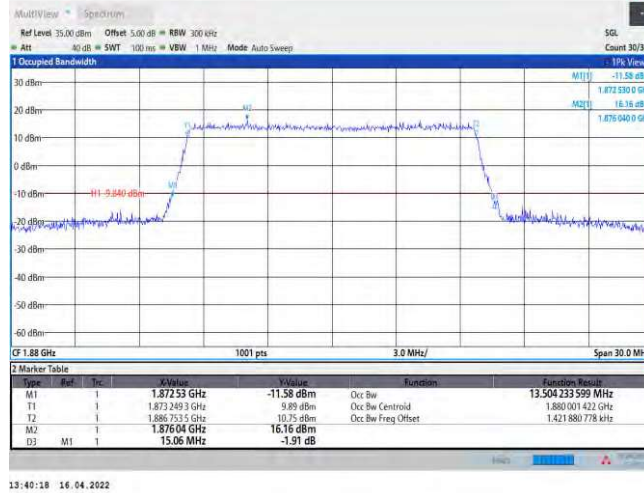
Band2-15MHz-16QAM-18675-75RB#0



13:39:01 16.04.2022



Band2-15MHz-16QAM-18900-75RB#0



13:40:18 16.04.2022

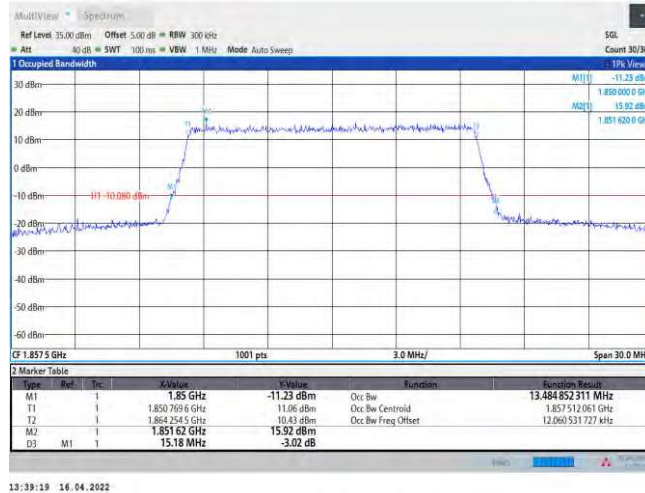
Band2-15MHz-16QAM-19125-75RB#0



13:41:38 16.04.2022

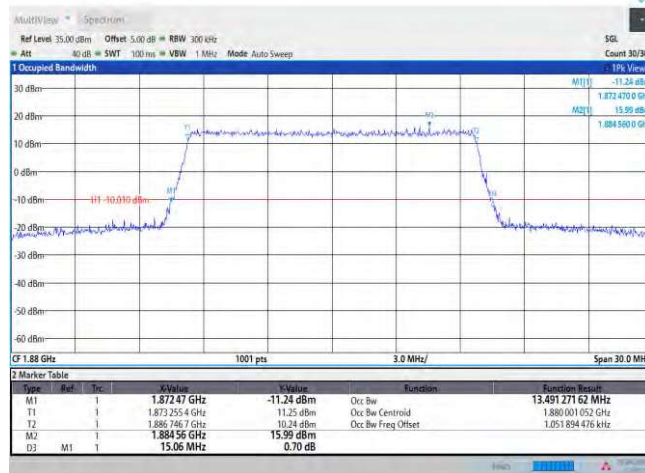


Band2-15MHz-64QAM-18675-75RB#0



13:39:19 16.04.2022

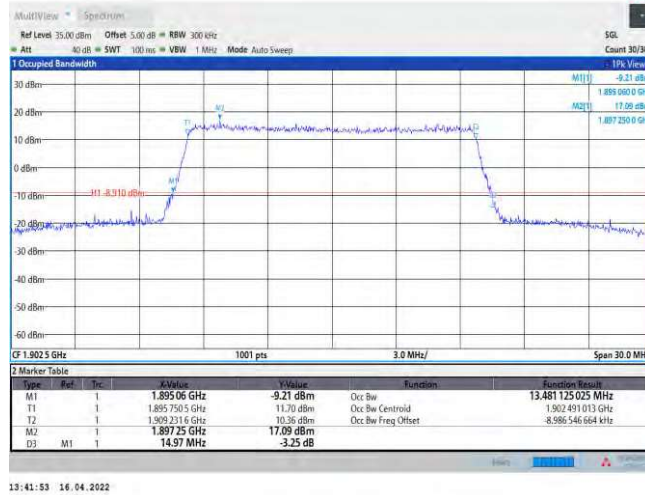
Band2-15MHz-64QAM-18900-75RB#0



13:40:36 16.04.2022



Band2-15MHz-64QAM-19125-75RB#0



13:41:53 16.04.2022

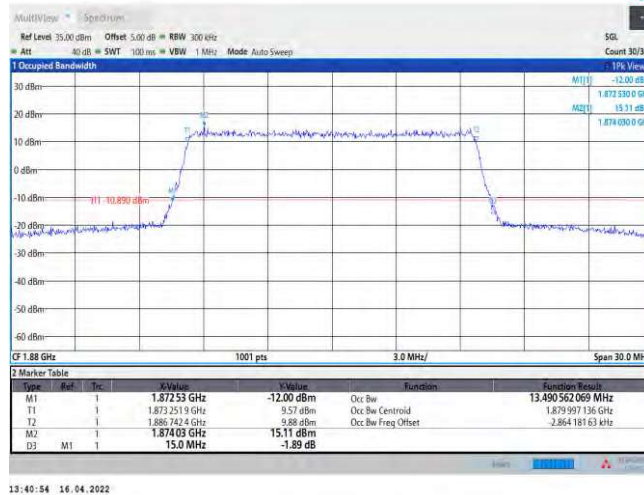
Band2-15MHz-256QAM-18675-75RB#0



13:39:37 16.04.2022

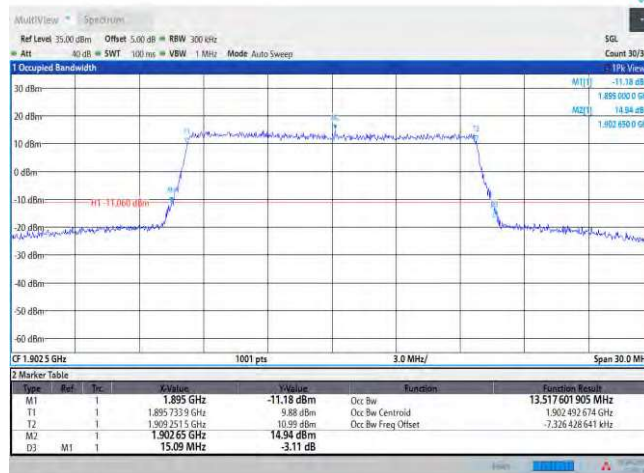


Band2-15MHz-256QAM-18900-75RB#0



13:40:54 16.04.2022

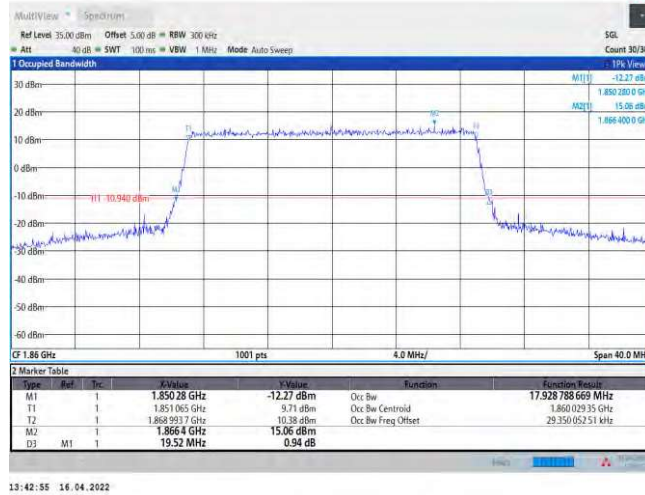
Band2-15MHz-256QAM-19125-75RB#0



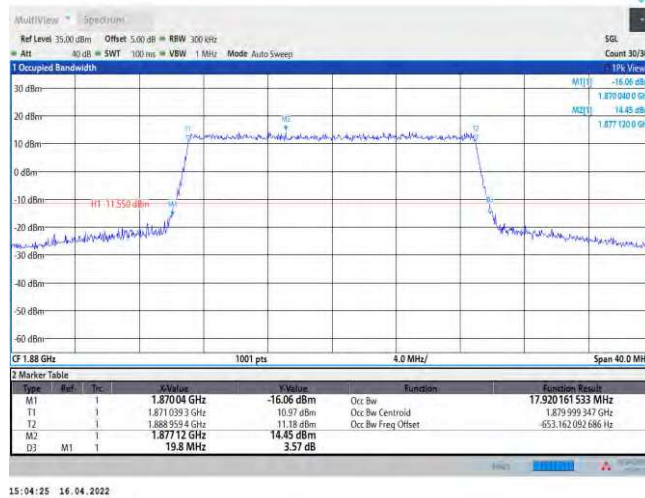
13:42:12 16.04.2022



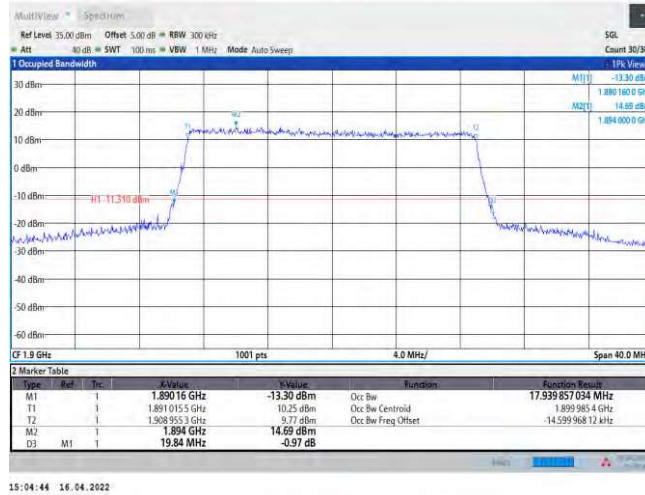
Band2-20MHz-QPSK-18700-100RB#0



Band2-20MHz-QPSK-18900-100RB#0

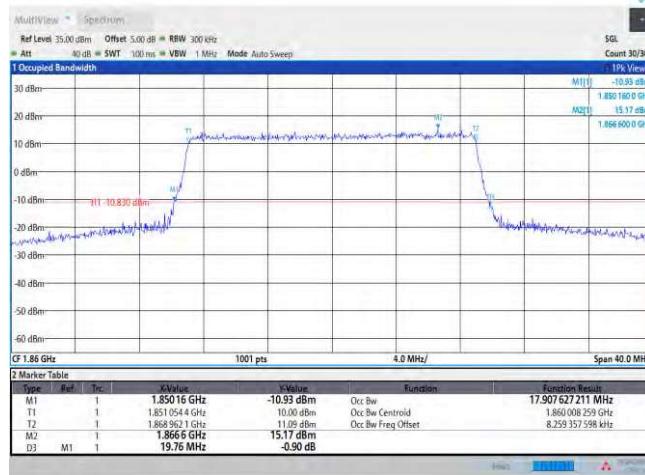


Band2-20MHz-QPSK-19100-100RB#0



15:04:44 16.04.2022

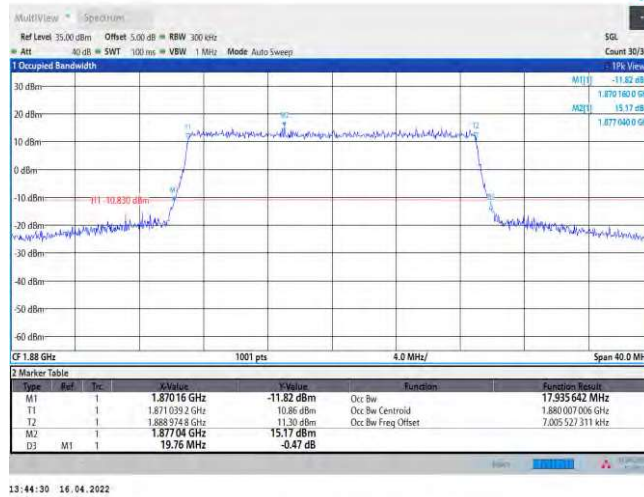
Band2-20MHz-16QAM-18700-100RB#0



15:43:13 16.04.2022

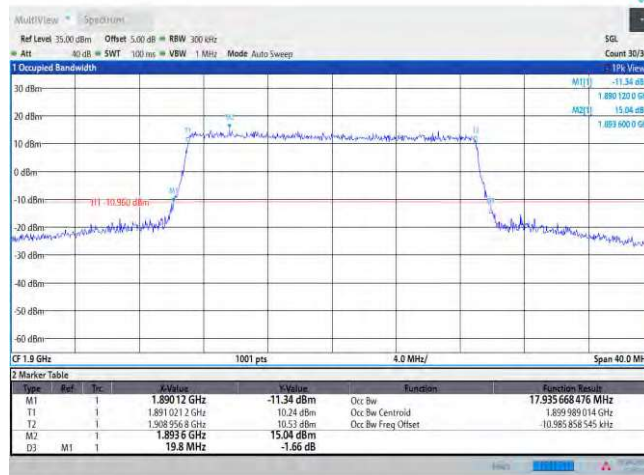


Band2-20MHz-16QAM-18900-100RB#0



13:44:30 16.04.2022

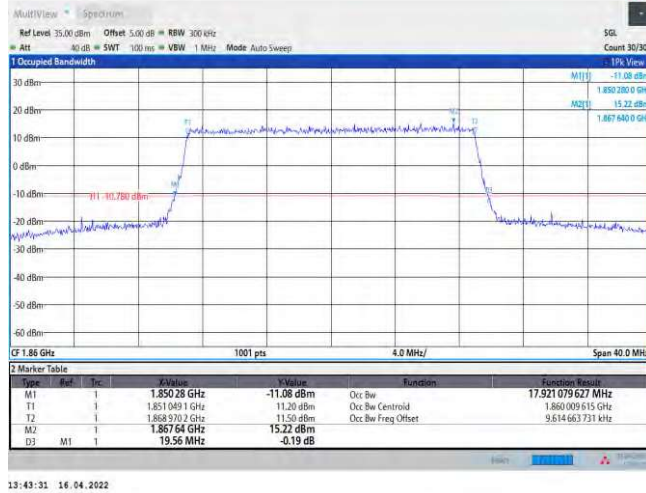
Band2-20MHz-16QAM-19100-100RB#0



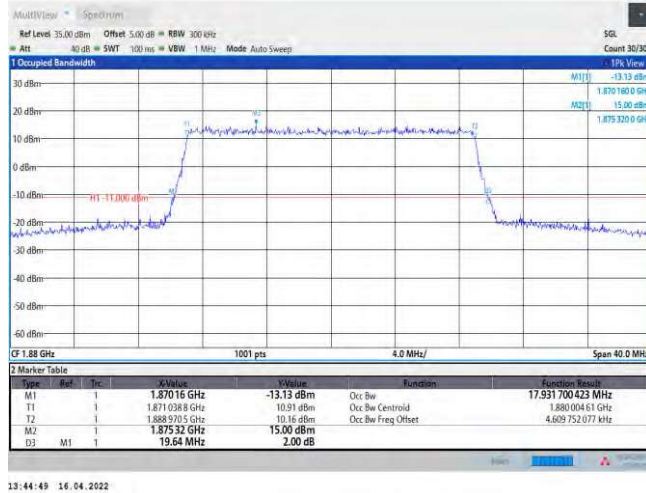
13:45:47 16.04.2022



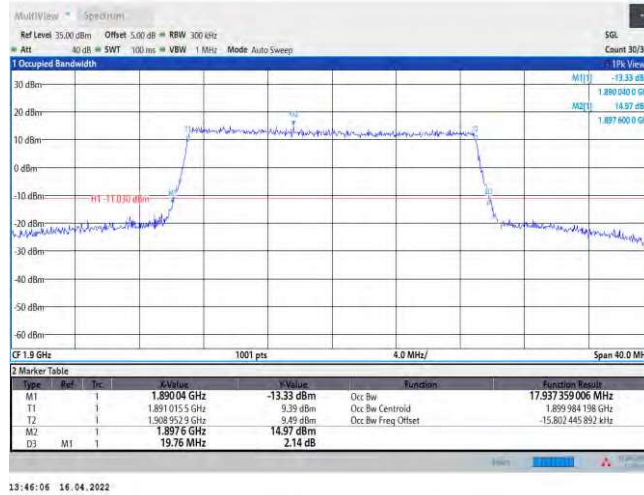
Band2-20MHz-64QAM-18700-100RB#0



Band2-20MHz-64QAM-18900-100RB#0

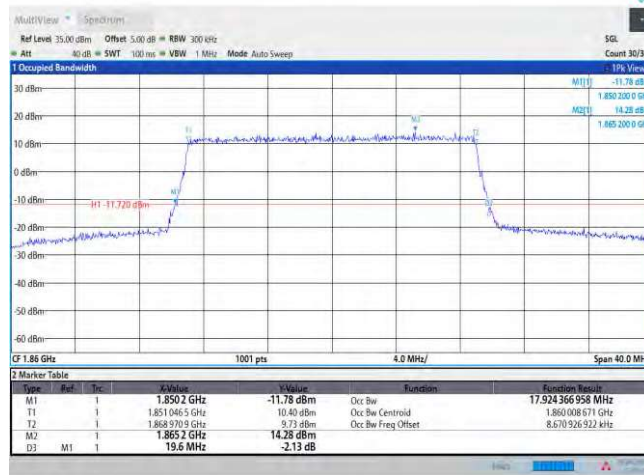


Band2-20MHz-64QAM-19100-100RB#0



13:46:06 16.04.2022

Band2-20MHz-256QAM-18700-100RB#0



13:43:49 16.04.2022

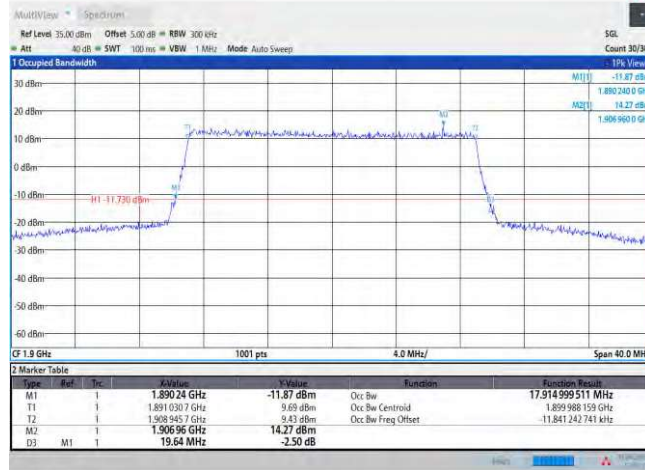


Band2-20MHz-256QAM-18900-100RB#0



13:45:07 16.04.2022

Band2-20MHz-256QAM-19100-100RB#0



13:46:24 16.04.2022



Band Edge

Test Graphs

Band2-1.4MHz-QPSK-18607-1RB#0



18:45:24 15.04.2022

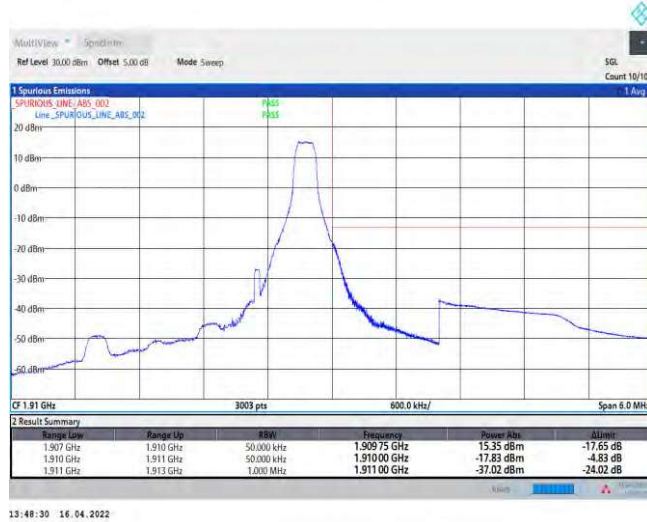
Band2-1.4MHz-QPSK-18607-6RB#0



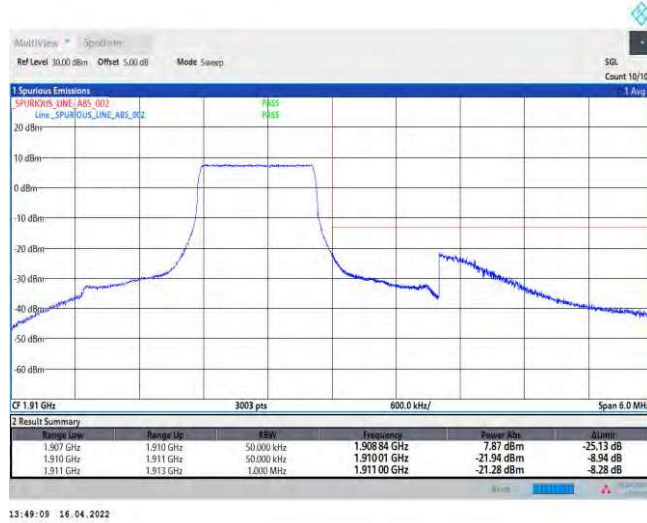
18:46:04 15.04.2022



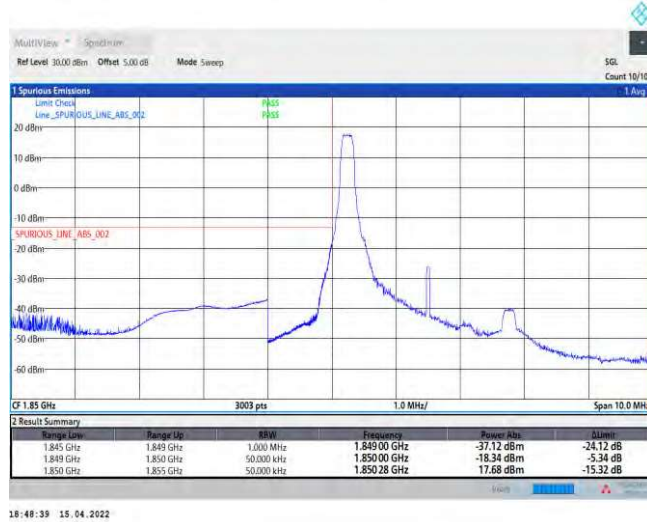
Band2-1.4MHz-QPSK-19193-1RB#5



Band2-1.4MHz-QPSK-19193-6RB#0

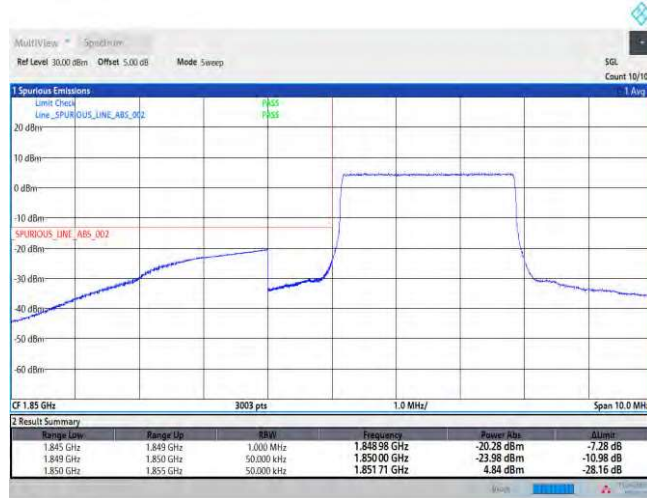


Band2-3MHz-QPSK-18615-1RB#0



18:48:39 15. 04. 2022

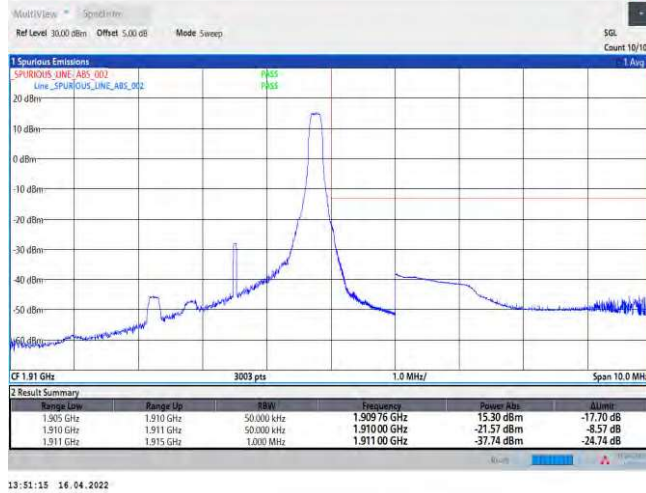
Band2-3MHz-QPSK-18615-15RB#0



18:49:17 15. 04. 2022



Band2-3MHz-QPSK-19185-1RB#14



13:51:15 16. 04. 2022

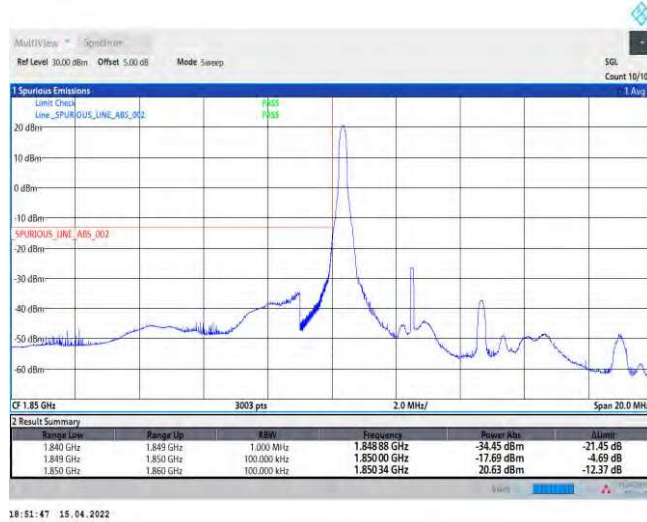
Band2-3MHz-QPSK-19185-15RB#0



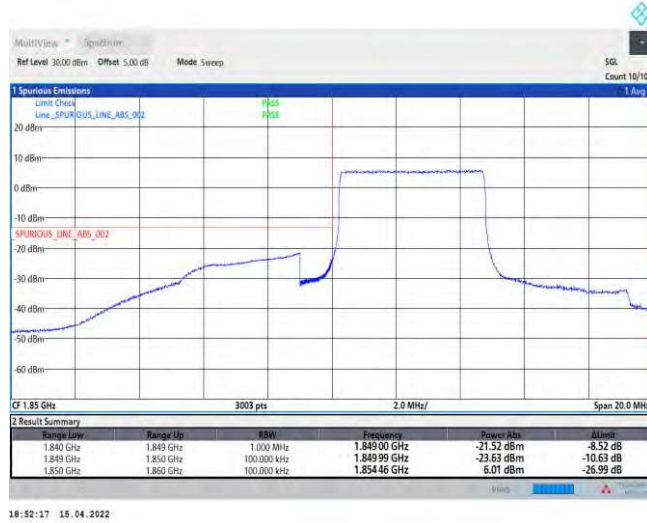
13:51:54 16. 04. 2022



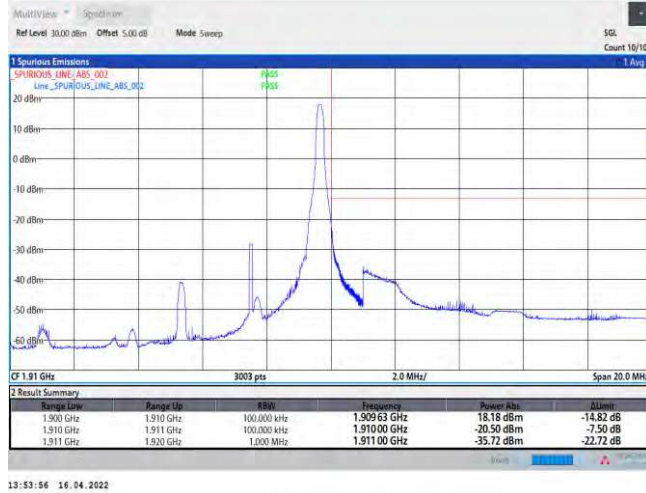
Band2-5MHz-QPSK-18625-1RB#0



Band2-5MHz-QPSK-18625-25RB#0



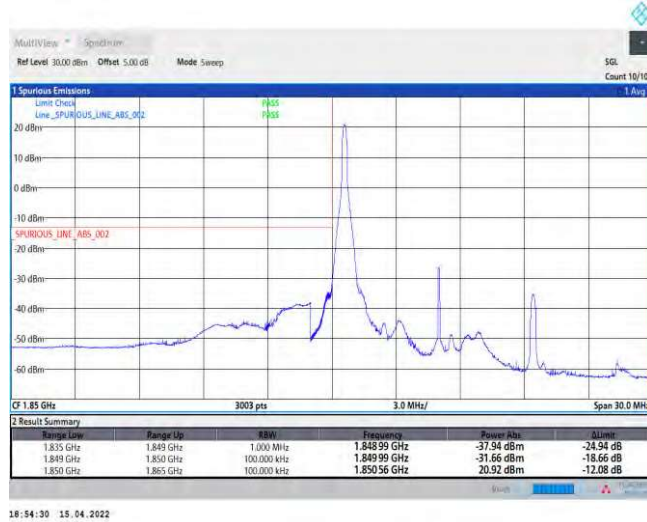
Band2-5MHz-QPSK-19175-1RB#24



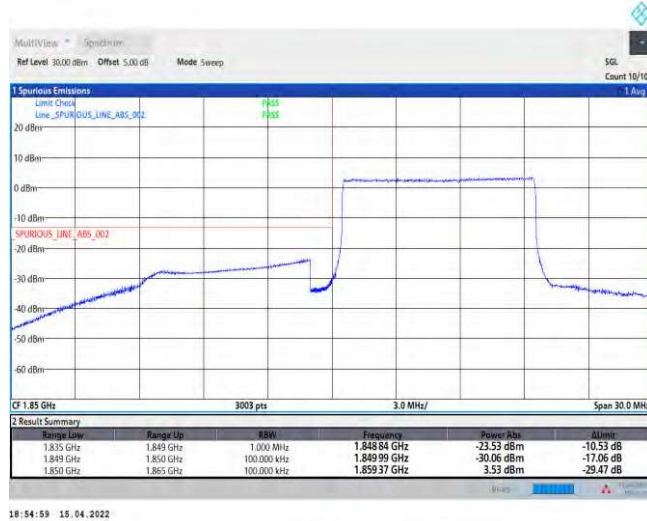
Band2-5MHz-QPSK-19175-25RB#0



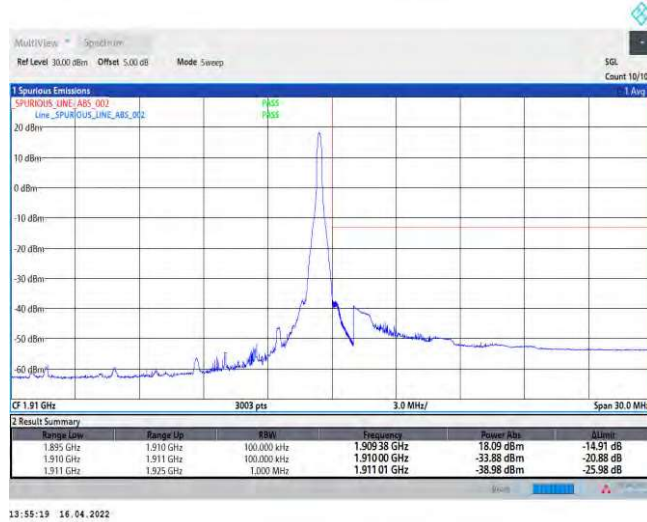
.Band2-10MHz-QPSK-18650-1RB#0



Band2-10MHz-QPSK-18650-50RB#0

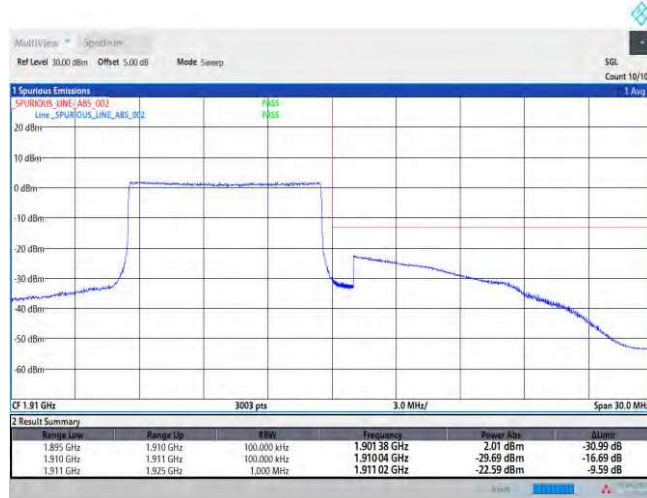


Band2-10MHz-QPSK-19150-1RB#49



13:55:19 16. 04. 2022

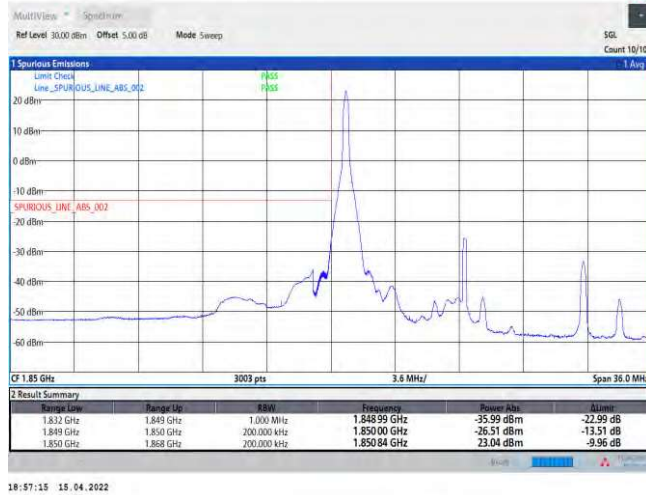
Band2-10MHz-QPSK-19150-50RB#0



13:55:49 16. 04. 2022



Band2-15MHz-QPSK-18675-1RB#0



18:57:15 15. 04. 2022

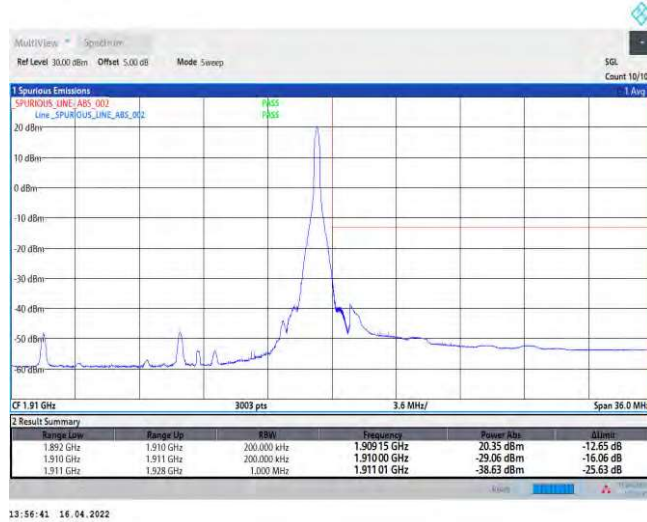
Band2-15MHz-QPSK-18675-75RB#0



18:57:44 15. 04. 2022



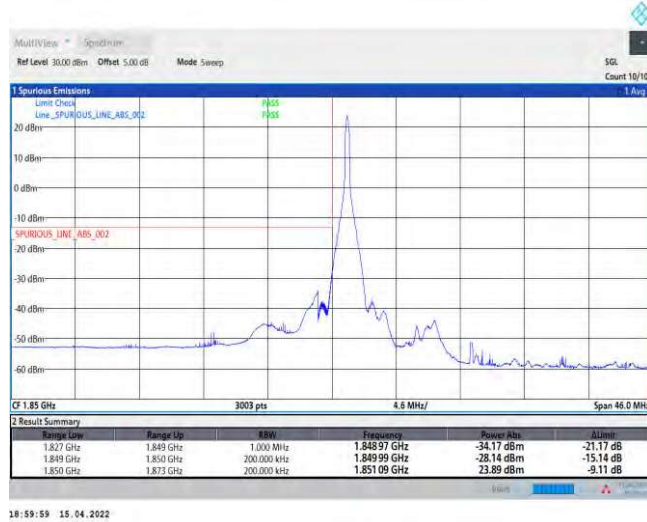
Band2-15MHz-QPSK-19125-1RB#74



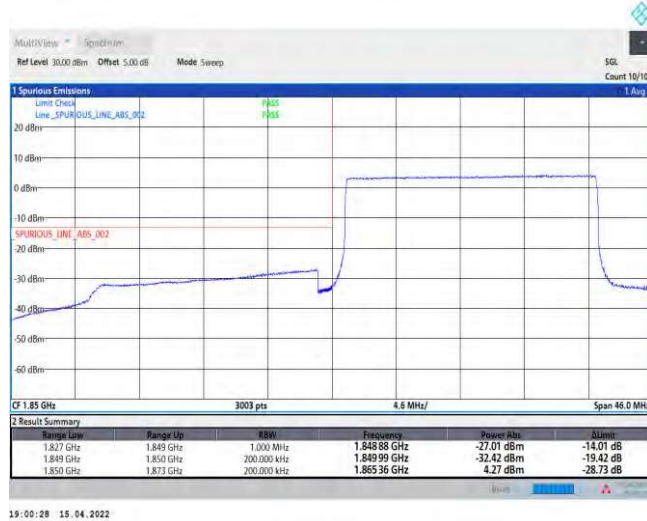
Band2-15MHz-QPSK-19125-75RB#0



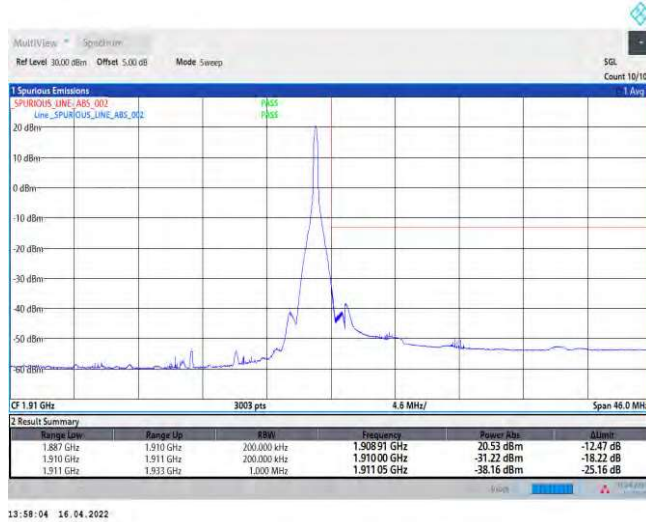
Band2-20MHz-QPSK-18700-1RB#0



Band2-20MHz-QPSK-18700-100RB#0



Band2-20MHz-QPSK-19100-1RB#99



13:58:04 16.04.2022

Band2-20MHz-QPSK-19100-100RB#0



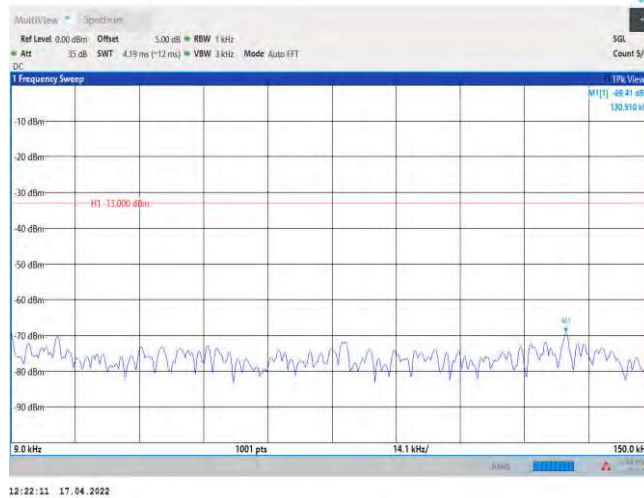
13:58:34 16.04.2022



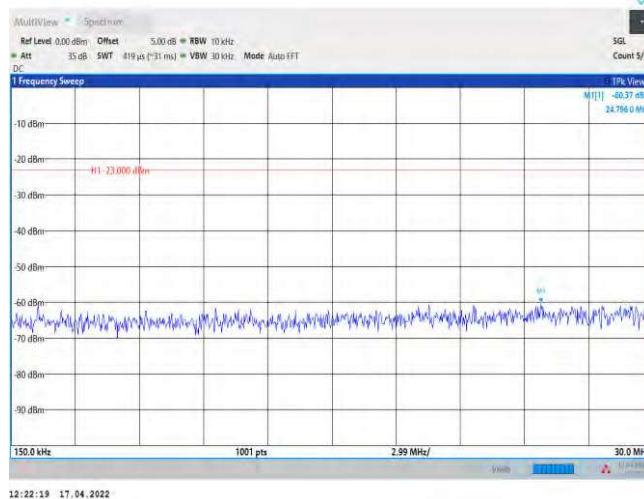
Conducted Spurious Emission

Test Graphs

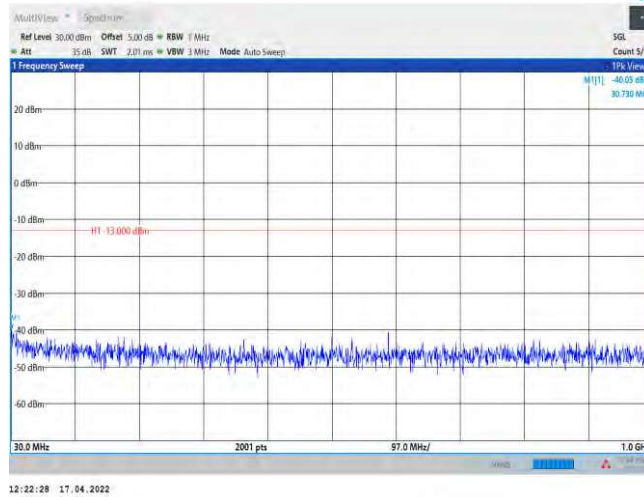
Band2-20MHz-QPSK-18700-1RB#0-Range1:0.009~0.15MHz



Band2-20MHz-QPSK-18700-1RB#0-Range2:0.15~30MHz

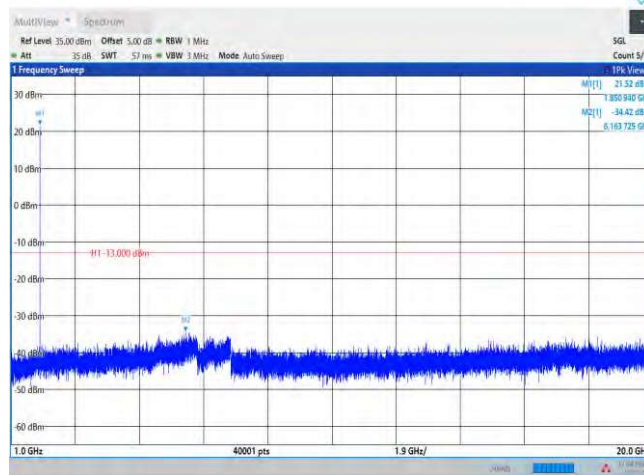


Band2-20MHz-QPSK-18700-1RB#0-Range3:30~1000MHz



12:22:28 17.04.2022

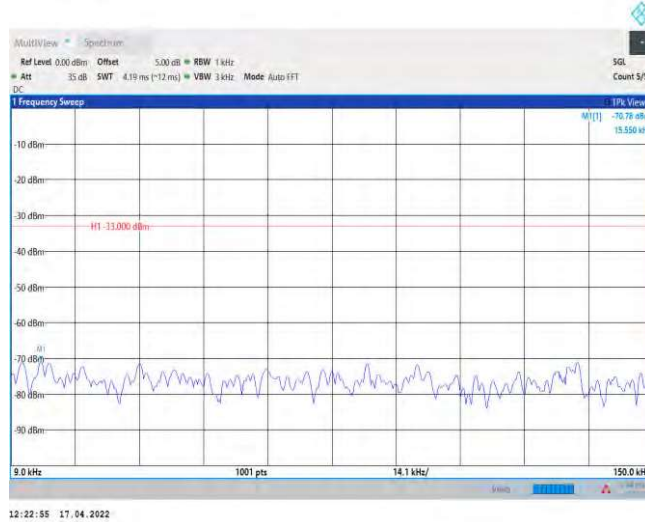
Band2-20MHz-QPSK-18700-1RB#0-Range4:1000~20000MHz



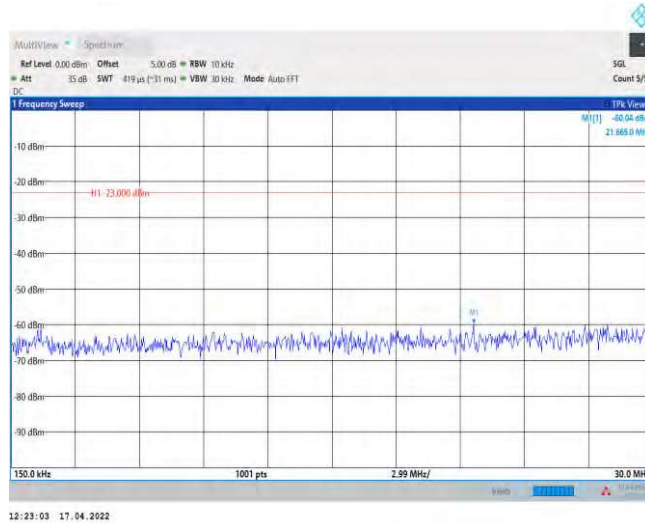
12:22:37 17.04.2022



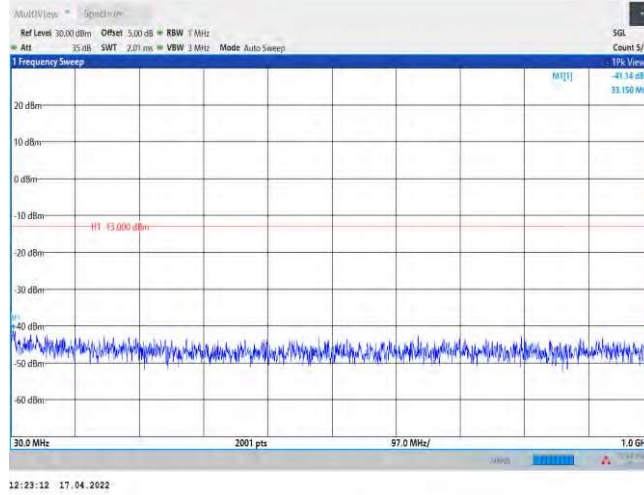
Band2-20MHz-QPSK-18900-1RB#0-Range1:0.009~0.15MHz



Band2-20MHz-QPSK-18900-1RB#0-Range2:0.15~30MHz

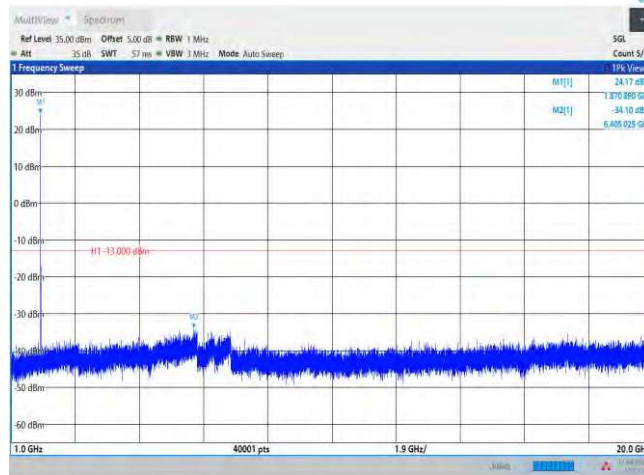


Band2-20MHz-QPSK-18900-1RB#0-Range3:30~1000MHz



12:23:12 17.04.2022

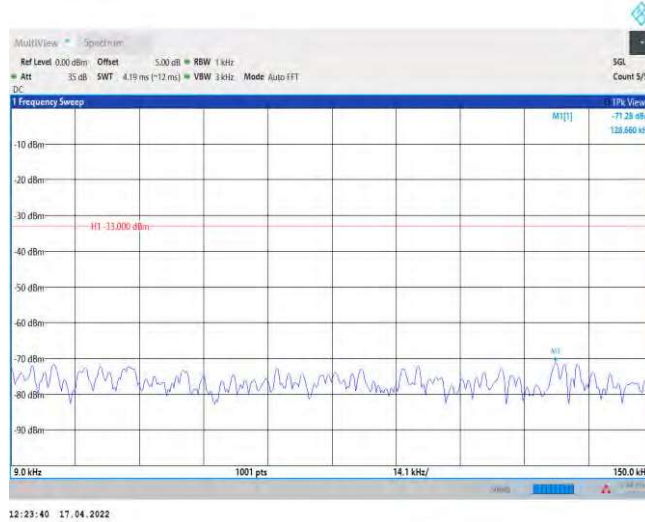
Band2-20MHz-QPSK-18900-1RB#0-Range4:1000~20000MHz



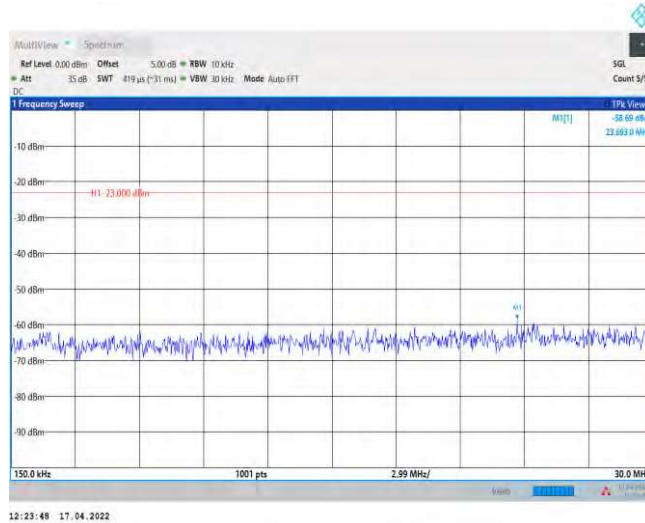
12:23:21 17.04.2022



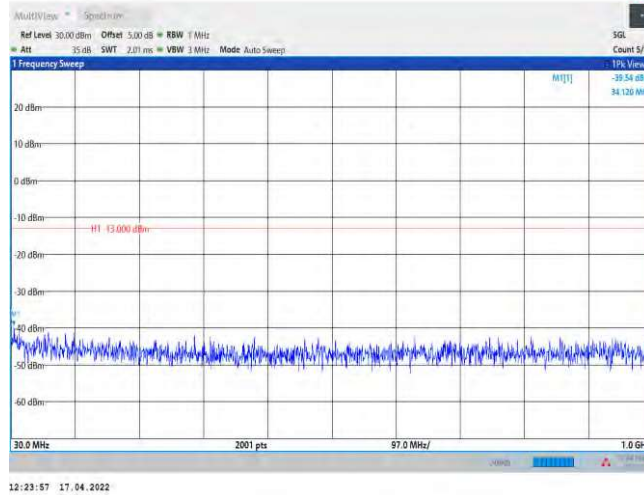
Band2-20MHz-QPSK-19100-1RB#0-Range1:0.009~0.15MHz



Band2-20MHz-QPSK-19100-1RB#0-Range2:0.15~30MHz

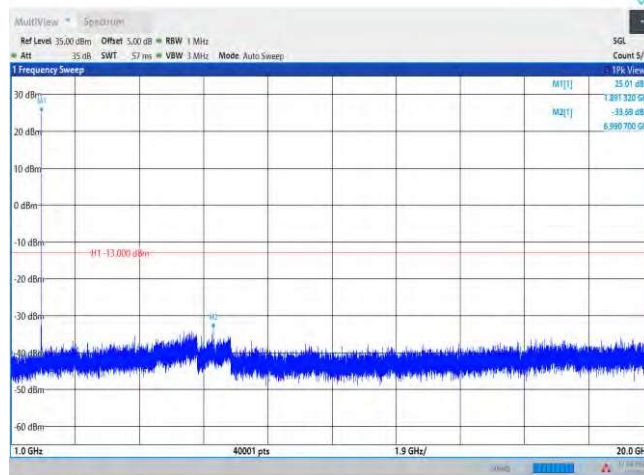


Band2-20MHz-QPSK-19100-1RB#0-Range3:30~1000MHz



12:23:57 17.04.2022

Band2-20MHz-QPSK-19100-1RB#0-Range4:1000~20000MHz



12:24:06 17.04.2022



Field Strength of Spurious Radiation

Test Band = LTE Band 2_ TM1

Test Channel = Low Channel

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 3702.1800 | 40.51 | -45.51 | 29.98 | -70.28 | -13.00 | 57.28 | 254 | 359 | Horizontal |
| 2 | 5553.2700 | 41.10 | -45.15 | 32.97 | -66.34 | -13.00 | 53.34 | 136 | 177 | Horizontal |
| 3 | 7404.3600 | 42.69 | -43.40 | 36.49 | -59.48 | -13.00 | 46.48 | 144 | 328 | Horizontal |
| 4 | 9255.4500 | 36.19 | -40.23 | 38.38 | -60.92 | -13.00 | 47.92 | 165 | 282 | Horizontal |
| 5 | 11106.540 | 32.08 | -37.93 | 39.09 | -62.02 | -13.00 | 49.02 | 291 | 360 | Horizontal |
| 6 | 12957.630 | 31.01 | -37.24 | 39.79 | -61.70 | -13.00 | 48.70 | 188 | 268 | Horizontal |

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 3702.1800 | 41.03 | -45.51 | 29.98 | -69.76 | -13.00 | 56.76 | 255 | 14 | Vertical |
| 2 | 5553.2700 | 46.42 | -45.15 | 32.97 | -61.02 | -13.00 | 48.02 | 148 | 195 | Vertical |
| 3 | 7404.3600 | 42.71 | -43.40 | 36.49 | -59.46 | -13.00 | 46.46 | 174 | 104 | Vertical |
| 4 | 9255.4500 | 36.03 | -40.23 | 38.38 | -61.08 | -13.00 | 48.08 | 156 | 164 | Vertical |
| 5 | 11106.540 | 31.86 | -37.93 | 39.09 | -62.24 | -13.00 | 49.24 | 291 | 209 | Vertical |
| 6 | 12957.630 | 31.52 | -37.24 | 39.79 | -61.19 | -13.00 | 48.19 | 180 | 299 | Vertical |





Test Band = LTE Band 2_ TM1
Test Channel = Mid Channel

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 3742.1800 | 41.30 | -45.68 | 30.12 | -69.52 | -13.00 | 56.52 | 233 | 255 | Horizontal |
| 2 | 5613.2700 | 40.13 | -45.04 | 33.07 | -67.10 | -13.00 | 54.10 | 216 | 104 | Horizontal |
| 3 | 7484.3600 | 39.47 | -43.18 | 36.45 | -62.52 | -13.00 | 49.52 | 154 | 269 | Horizontal |
| 4 | 9355.4500 | 35.29 | -40.00 | 38.46 | -61.52 | -13.00 | 48.52 | 148 | 104 | Horizontal |
| 5 | 11226.540 | 33.46 | -37.40 | 39.11 | -60.09 | -13.00 | 47.09 | 186 | 44 | Horizontal |
| 6 | 13097.630 | 30.37 | -37.01 | 39.87 | -62.02 | -13.00 | 49.02 | 291 | 283 | Horizontal |

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 3742.1800 | 41.21 | -45.68 | 30.12 | -69.61 | -13.00 | 56.61 | 145 | 25 | Vertical |
| 2 | 5613.2700 | 42.06 | -45.04 | 33.07 | -65.17 | -13.00 | 52.17 | 251 | 208 | Vertical |
| 3 | 7484.3600 | 40.06 | -43.18 | 36.45 | -61.93 | -13.00 | 48.93 | 185 | 59 | Vertical |
| 4 | 9355.4500 | 34.85 | -40.00 | 38.46 | -61.96 | -13.00 | 48.96 | 163 | 28 | Vertical |
| 5 | 11226.540 | 33.03 | -37.40 | 39.11 | -60.52 | -13.00 | 47.52 | 251 | 126 | Vertical |
| 6 | 13097.630 | 31.10 | -37.01 | 39.87 | -61.29 | -13.00 | 48.29 | 145 | 44 | Vertical |





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Test Band = LTE Band 2_ TM1
Test Channel = High Channel

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 3782.1800 | 41.47 | -45.85 | 30.27 | -69.37 | -13.00 | 56.37 | 266 | 104 | Horizontal |
| 2 | 5673.2700 | 40.33 | -44.91 | 33.29 | -66.55 | -13.00 | 53.55 | 147 | 343 | Horizontal |
| 3 | 7564.3600 | 43.46 | -43.00 | 36.41 | -58.40 | -13.00 | 45.40 | 185 | 285 | Horizontal |
| 4 | 9455.4500 | 34.95 | -40.05 | 38.48 | -61.89 | -13.00 | 48.89 | 196 | 196 | Horizontal |
| 5 | 11346.540 | 31.68 | -37.40 | 39.11 | -61.87 | -13.00 | 48.87 | 141 | 360 | Horizontal |
| 6 | 13237.630 | 29.68 | -37.08 | 39.96 | -62.69 | -13.00 | 49.69 | 152 | 135 | Horizontal |

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 3782.1800 | 42.78 | -45.85 | 30.27 | -68.06 | -13.00 | 55.06 | 241 | 75 | Vertical |
| 2 | 5673 | 47.58 | -44.91 | 33.29 | -59.30 | -13.00 | 46.30 | 233 | 181 | Vertical |
| 3 | 7564.3600 | 43.77 | -43.00 | 36.41 | -58.09 | -13.00 | 45.09 | 142 | 29 | Vertical |
| 4 | 9455.4500 | 34.82 | -40.05 | 38.48 | -62.02 | -13.00 | 49.02 | 166 | 330 | Vertical |
| 5 | 11346.540 | 31.66 | -37.40 | 39.11 | -61.89 | -13.00 | 48.89 | 258 | 239 | Vertical |
| 6 | 13237.630 | 30.00 | -37.08 | 39.96 | -62.37 | -13.00 | 49.37 | 191 | 44 | Vertical |



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Frequency Stability

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | VL | NT | -3.10 | -0.001649 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | VN | NT | -1.20 | -0.000638 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | VH | NT | -2.60 | -0.001383 | PASS |

| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | NV | -30 | -2.90 | -0.001543 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | NV | -20 | -2.00 | -0.001064 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | NV | -10 | -3.10 | -0.001649 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | NV | 0 | -1.70 | -0.000904 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | NV | 10 | -2.00 | -0.001064 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | NV | 20 | -2.10 | -0.001117 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | NV | 30 | 0.30 | 0.000160 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | NV | 40 | -1.60 | -0.000851 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | NV | 50 | -1.50 | -0.000798 | PASS |

The End

