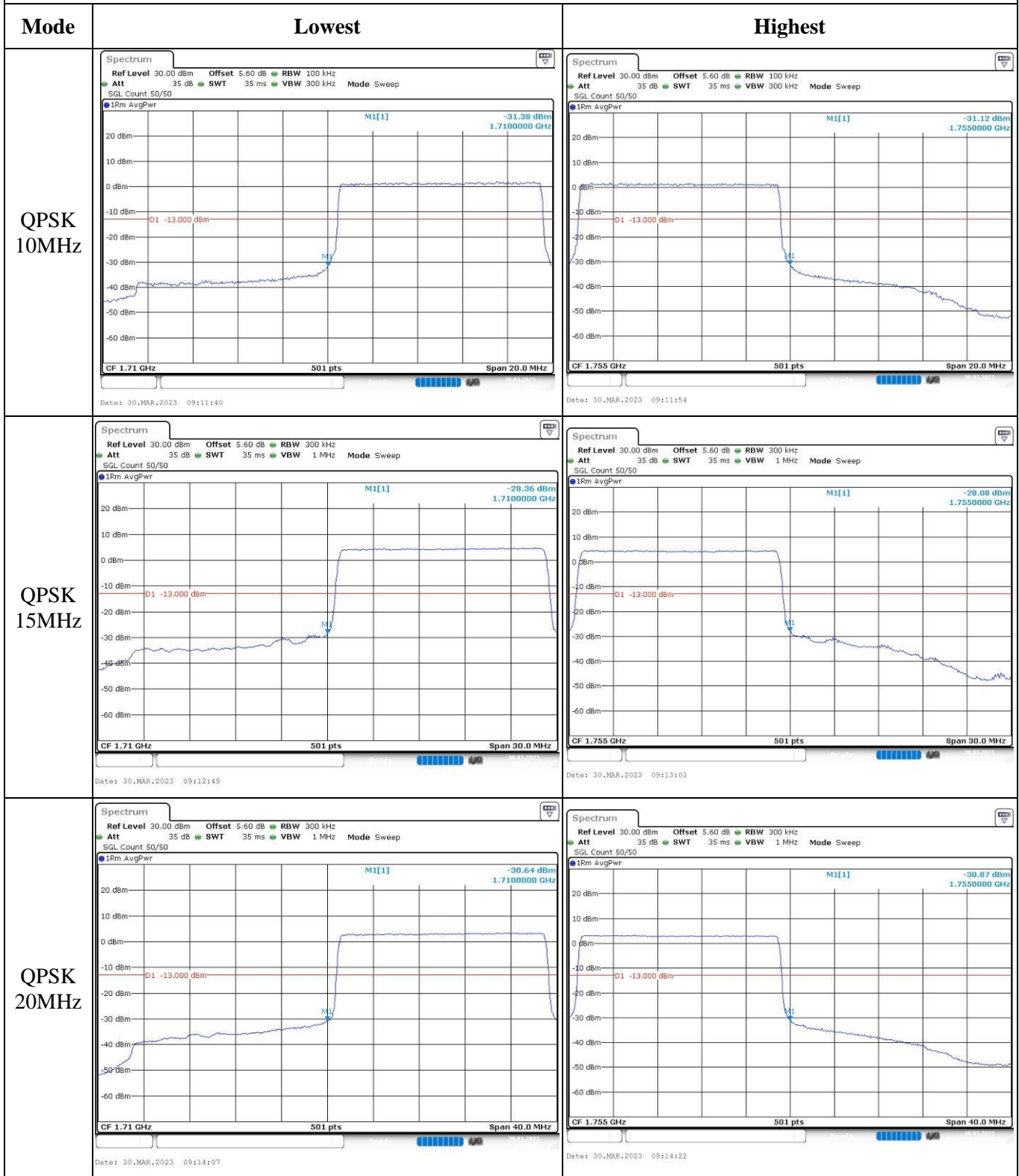


Out of band emission, Band Edge

| Mode | Lowest | Highest |
|------------------------|--------|---------|
| <p>QPSK 1.4MHz</p> | | |
| <p>QPSK 3MHz</p> | | |
| <p>QPSK 5MHz</p> | | |

Out of band emission, Band Edge



Out of band emission, Band Edge

| Mode | Lowest | Highest |
|-----------------|--------|---------|
| 16QAM 1.4MHz | | |
| 16QAM 3MHz | | |
| 16QAM 5MHz | | |

Out of band emission, Band Edge

| Mode | Lowest | Highest |
|----------------|--------|---------|
| 16QAM 10MHz | | |
| 16QAM 15MHz | | |
| 16QAM 20MHz | | |

4.8 Antenna Port Test Data and Results for LTE Band 5

| | | | |
|----------------|----------|--------------|---------------------|
| Serial Number: | 2205 | Test Date: | 2023/3/22~2023/3/30 |
| Test Site: | RF | Test Mode: | Transmitting |
| Tester: | Jou Zhou | Test Result: | Pass |

Environmental Conditions:

| | | | | | |
|----------------------|-----------|---------------------------|-------|------------------------|-------------|
| Temperature: (°C) | 24.1~25.3 | Relative Humidity: (%) | 41~56 | ATM Pressure: (kPa) | 100.1~101.6 |
|----------------------|-----------|---------------------------|-------|------------------------|-------------|

Test Equipment List and Details:

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|---------------|-------------------------------------|---------------|-----------------|------------------|----------------------|
| R&S | Spectrum Analyzer | FSV40 | 101474 | 2022/7/15 | 2023/7/14 |
| zhuoxiang | Coaxial Cable | SMA-178 | 211001 | Each time | N/A |
| YINSAIGE | Coaxial Cable | SS402 | SJ0100004 | Each time | N/A |
| Mini-Circuits | DC Block | BLK-18-S+ | 1554404 | Each time | N/A |
| eastsheep | Coaxial Attenuator | 2W-SMA-JK-18G | 21060301 | Each time | N/A |
| Weinschel | Power splitter | 1515 | RA915 | Each time | N/A |
| R&S | Wideband Radio Communication Tester | CMW500 | 149218 | 2022/7/15 | 2023/7/14 |
| BACL | TEMP&HUMI Test Chamber | BTH-150-40 | 30174 | 2022/4/6 | 2023/4/5 |
| UNI-T | Multimeter | UT39A+ | C210582554 | 2022/9/29 | 2023/9/28 |
| ZHAOXIN | DC Power Supply | RXN-6010D | 21R6010D0912386 | N/A | N/A |

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Frequency For Each Mode:

| Operation Bandwidth | Lowest Frequency (MHz) | Middle Frequency (MHz) | Highest Frequency (MHz) |
|---------------------|------------------------|------------------------|-------------------------|
| 1.4MHz | 824.7 | 836.5 | 848.3 |
| 3MHz | 825.5 | 836.5 | 847.5 |
| 5MHz | 826.5 | 836.5 | 846.5 |
| 10MHz | 829 | 836.5 | 844 |

Test Data:**FCC §2.1046; §22.913 (a)****RF Output Power:**

| Test Bandwidth & Modulation | Resource Block & RB offset | Conducted Average Output Power(dBm) | | | Maximum ERP (dBm) | ERP Limit (dBm) |
|-----------------------------|----------------------------|-------------------------------------|----------------|-----------------|-------------------|-----------------|
| | | Lowest Channel | Middle Channel | Highest Channel | | |
| 1.4MHz QPSK | RB1#0 | 22.97 | 22.6 | 22.33 | 20.47 | 38.45 |
| | RB1#3 | 23.14 | 22.75 | 22.5 | | |
| | RB1#5 | 22.96 | 22.35 | 22.28 | | |
| | RB3#0 | 23.04 | 22.45 | 22.39 | | |
| | RB3#3 | 23.07 | 22.43 | 22.4 | | |
| | RB6#0 | 22.01 | 21.42 | 21.37 | | |
| 1.4MHz 16QAM | RB1#0 | 21.99 | 21.34 | 21.4 | 19.52 | 38.45 |
| | RB1#3 | 22.17 | 21.5 | 21.63 | | |
| | RB1#5 | 22.04 | 21.34 | 21.41 | | |
| | RB3#0 | 22.19 | 21.64 | 21.39 | | |
| | RB3#3 | 22.05 | 21.67 | 21.41 | | |
| | RB6#0 | 20.81 | 20.39 | 20.28 | | |
| 3MHz QPSK | RB1#0 | 23.02 | 22.85 | 22.39 | 20.35 | 38.45 |
| | RB1#8 | 23 | 22.61 | 22.37 | | |
| | RB1#14 | 23 | 22.44 | 22.36 | | |
| | RB6#0 | 21.91 | 21.44 | 21.35 | | |
| | RB6#9 | 21.93 | 21.36 | 21.32 | | |
| | RB15#0 | 22 | 21.39 | 21.35 | | |
| 3MHz 16QAM | RB1#0 | 22.04 | 21.96 | 21.47 | 19.37 | 38.45 |
| | RB1#8 | 22.03 | 21.94 | 21.46 | | |
| | RB1#14 | 22.03 | 21.92 | 21.5 | | |
| | RB6#0 | 20.91 | 20.43 | 20.35 | | |
| | RB6#9 | 20.88 | 20.38 | 20.36 | | |
| | RB15#0 | 21.08 | 20.48 | 20.34 | | |
| 5MHz QPSK | RB1#0 | 22.92 | 22.37 | 22.24 | 20.38 | 38.45 |
| | RB1#13 | 23.05 | 22.45 | 22.41 | | |
| | RB1#24 | 22.76 | 22.33 | 22.28 | | |
| | RB15#0 | 21.78 | 21.45 | 21.47 | | |
| | RB15#10 | 21.65 | 21.42 | 21.37 | | |
| | RB25#0 | 21.49 | 21.45 | 21.38 | | |
| 5MHz 16QAM | RB1#0 | 21.28 | 21.58 | 21.32 | 19.02 | 38.45 |
| | RB1#13 | 21.44 | 21.69 | 21.43 | | |
| | RB1#24 | 21.33 | 21.62 | 21.34 | | |
| | RB15#0 | 20.55 | 20.45 | 20.46 | | |
| | RB15#10 | 20.6 | 20.4 | 20.37 | | |
| | RB25#0 | 20.58 | 20.43 | 20.39 | | |

| | | | | | | |
|-------------|---------|-------|-------|-------|-------|-------|
| 10MHz QPSK | RB1#0 | 22.98 | 22.79 | 22.34 | 20.45 | 38.45 |
| | RB1#25 | 23.12 | 22.59 | 22.45 | | |
| | RB1#49 | 23.01 | 22.41 | 22.38 | | |
| | RB25#0 | 21.96 | 21.56 | 21.36 | | |
| | RB25#25 | 21.98 | 21.48 | 21.28 | | |
| | RB50#0 | 21.98 | 21.52 | 21.38 | | |
| 10MHz 16QAM | RB1#0 | 22.15 | 21.4 | 21.97 | 19.61 | 38.45 |
| | RB1#25 | 22.28 | 21.48 | 21.99 | | |
| | RB1#49 | 22.06 | 21.42 | 21.89 | | |
| | RB25#0 | 20.99 | 20.59 | 20.45 | | |
| | RB25#25 | 21 | 20.58 | 20.35 | | |
| | RB50#0 | 20.96 | 20.56 | 20.38 | | |

Note:

ERP= Conducted Power(dBm) - Lc(dB) + G_T(dBd)G_T(dBd)=G_T(dBi)-2.15**Result:****Pass****Peak-to-average Ratio(PAR)**

| Test Bandwidth & Modulation | Resource Block & RB offset | Peak-to-average Ratio(dB) | | | Limit(dB) |
|-----------------------------|----------------------------|---------------------------|----------------|-----------------|-------------|
| | | Lowest Channel | Middle Channel | Highest Channel | |
| 10MHz QPSK | RB1#0 | 4.58 | 4.46 | 4.9 | 13 |
| | RB50#0 | 5.1 | 5.19 | 5.22 | 13 |
| 10MHz 16QAM | RB1#0 | 5.36 | 5.39 | 5.91 | 13 |
| | RB50#0 | 6.06 | 6.12 | 6.17 | 13 |
| Result: | | | | | Pass |

FCC §2.1049, §2.905:Occupied Bandwidth

| Operation Mode | 99% Occupied Bandwidth (MHz) | | | 26 dB Occupied Bandwidth (MHz) | | |
|----------------|------------------------------|----------------|--------------|--------------------------------|----------------|--------------|
| | Low Channel | Middle channel | High Channel | Low Channel | Middle Channel | High Channel |
| 1.4MHz QPSK | 1.102 | 1.102 | 1.102 | 1.296 | 1.308 | 1.29 |
| 1.4MHz 16QAM | 1.102 | 1.09 | 1.102 | 1.332 | 1.29 | 1.302 |
| 3MHz QPSK | 2.683 | 2.683 | 2.683 | 2.892 | 2.88 | 2.88 |
| 3MHz 16QAM | 2.683 | 2.683 | 2.683 | 2.88 | 2.892 | 2.88 |
| 5MHz QPSK | 4.531 | 4.511 | 4.511 | 5.2 | 5.2 | 5.16 |
| 5MHz 16QAM | 4.511 | 4.551 | 4.531 | 5.22 | 5.24 | 5.24 |
| 10MHz QPSK | 8.942 | 8.982 | 8.982 | 9.84 | 9.92 | 10 |
| 10MHz 16QAM | 8.982 | 8.982 | 8.942 | 9.96 | 9.92 | 9.84 |

Note: The test plots please refer to the Plots of Occupied Bandwidth

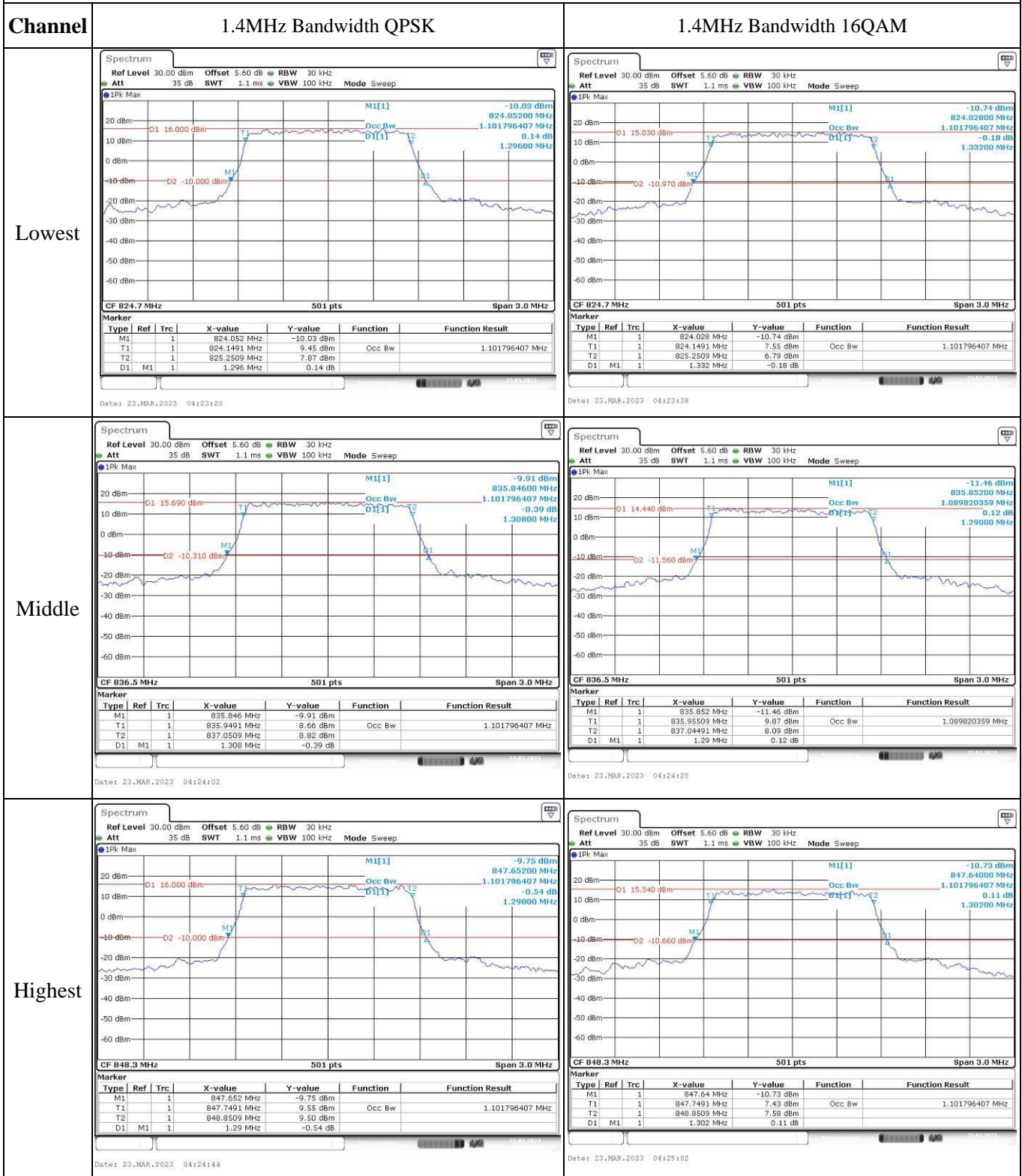
FCC §2.1051, §22.917(a):Spurious Emissions at Antenna Terminal**Result: Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.****FCC §2.1051, §22.917(a):Out of band emission, Band Edge****Result: Pass, Please refer to the test plots of Out of band emission, Band Edge.****FCC §2.1055, §22.355: Frequency Stability**

| Test Modulation: | 10 MHz QPSK | | Test Channel: | 836.5 | MHz |
|-------------------------------------|------------------|----------------------------|-----------------|----------------|-------------|
| Test Item | Temperature (°C) | Voltage (V _{DC}) | Frequency Error | | Limit |
| | | | (Hz) | (ppm) | (ppm) |
| Frequency Stability vs. Temperature | -30 | 3.8 | 6.69 | 0.008 | 2.5 |
| | -20 | 3.8 | -9.3 | -0.011 | 2.5 |
| | -10 | 3.8 | -7.91 | -0.009 | 2.5 |
| | 0 | 3.8 | 8.99 | 0.011 | 2.5 |
| | 10 | 3.8 | 8.43 | 0.010 | 2.5 |
| | 20 | 3.8 | 6.94 | 0.008 | 2.5 |
| | 30 | 3.8 | 9.66 | 0.012 | 2.5 |
| | 40 | 3.8 | -6.08 | -0.007 | 2.5 |
| Frequency Stability vs. Voltage | 50 | 3.8 | -2.15 | -0.003 | 2.5 |
| | 20 | 3.3 | 5.23 | 0.006 | 2.5 |
| | 20 | 4.3 | 6.79 | 0.008 | 2.5 |
| | | | | Result: | Pass |

| Test Modulation: | 10 MHz 16QAM | | Test Channel: | 836.5 | MHz |
|-------------------------------------|-----------------|---------------------------|-----------------|----------------|-------------|
| Test Item | Temperature(°C) | Voltage(V _{DC}) | Frequency Error | | Limit |
| | | | (Hz) | (ppm) | (ppm) |
| Frequency Stability vs. Temperature | -30 | 3.8 | 6.69 | 0.008 | 2.5 |
| | -20 | 3.8 | -7.11 | -0.008 | 2.5 |
| | -10 | 3.8 | -9.97 | -0.012 | 2.5 |
| | 0 | 3.8 | -8.78 | -0.010 | 2.5 |
| | 10 | 3.8 | 6.12 | 0.007 | 2.5 |
| | 20 | 3.8 | 7.05 | 0.008 | 2.5 |
| | 30 | 3.8 | -6.51 | -0.008 | 2.5 |
| | 40 | 3.8 | -5.79 | -0.007 | 2.5 |
| Frequency Stability vs. Voltage | 50 | 3.8 | -7.69 | -0.009 | 2.5 |
| | 20 | 3.3 | -9.71 | -0.012 | 2.5 |
| | 20 | 4.3 | -7.72 | -0.009 | 2.5 |
| | | | | Result: | Pass |

Test Plots(Note: The 5.6dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer):

Occupied Bandwidth



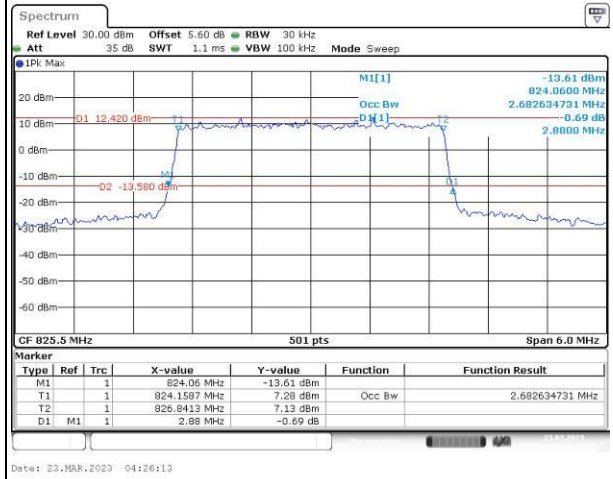
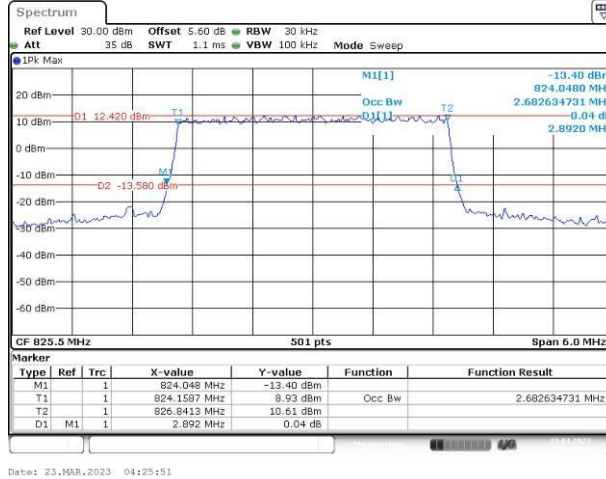
Occupied Bandwidth

Channel

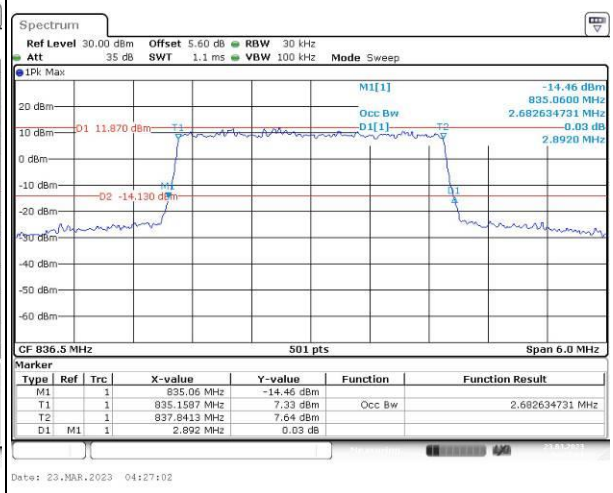
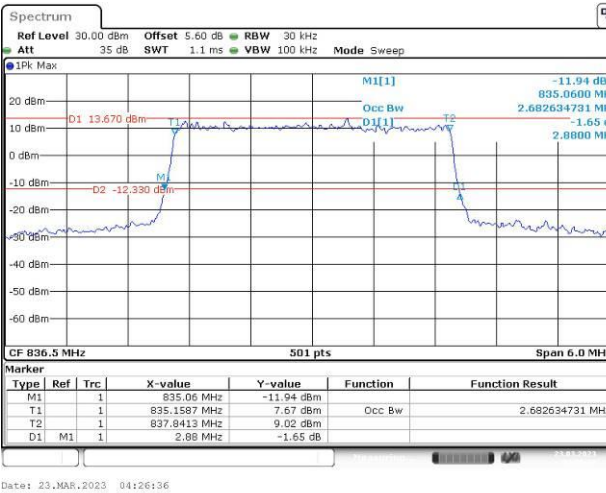
3MHz Bandwidth QPSK

3MHz Bandwidth 16QAM

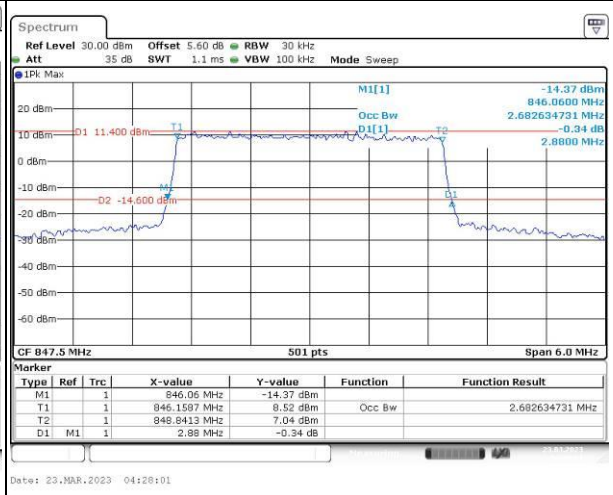
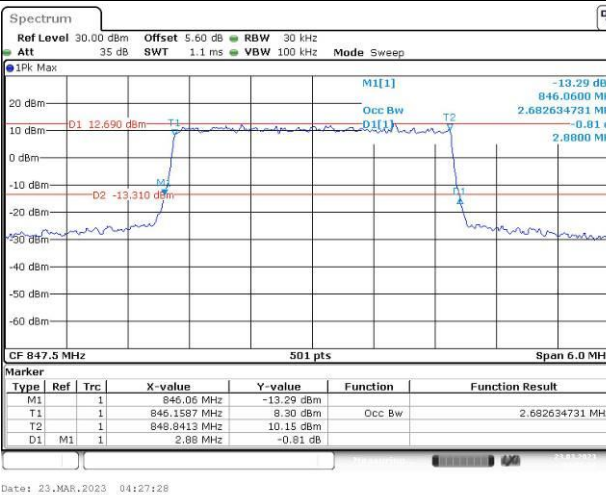
Lowest



Middle



Highest



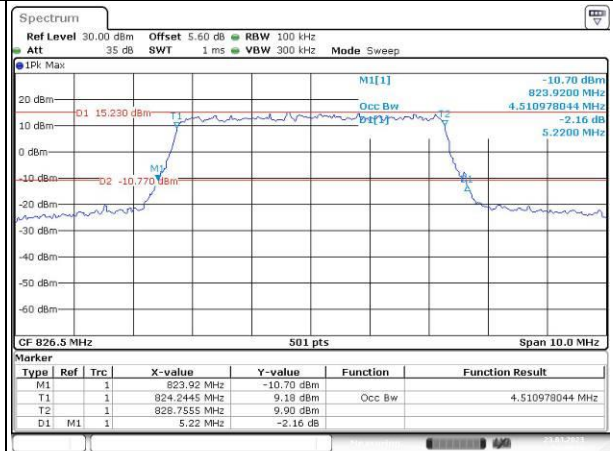
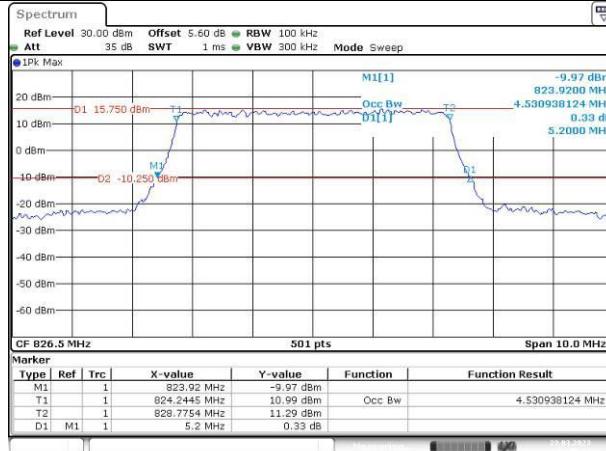
Occupied Bandwidth

Channel

5MHz Bandwidth QPSK

5MHz Bandwidth 16QAM

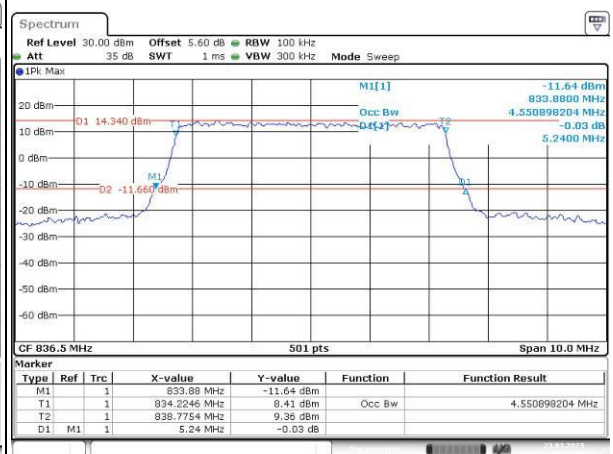
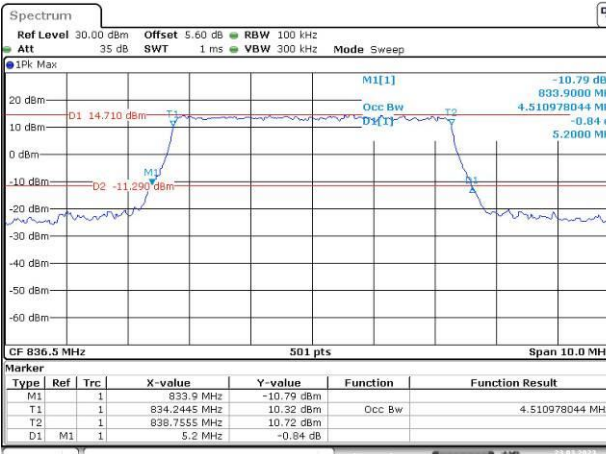
Lowest



Date: 23.MAR.2023 04:30:12

Date: 23.MAR.2023 04:30:38

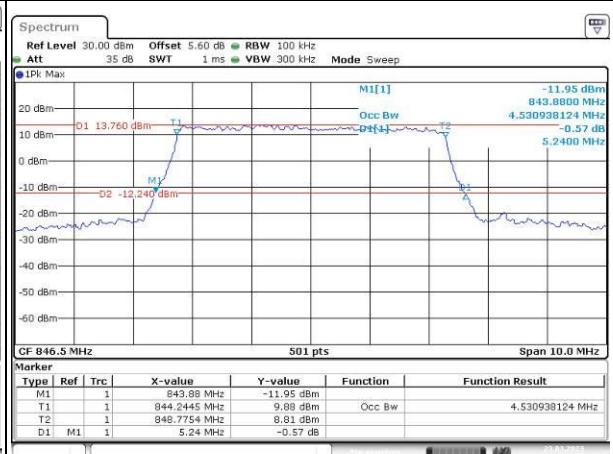
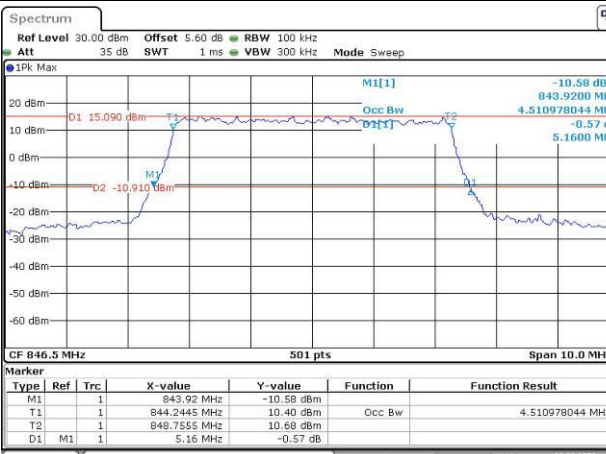
Middle



Date: 23.MAR.2023 04:31:09

Date: 23.MAR.2023 04:31:47

Highest



Date: 23.MAR.2023 04:32:18

Date: 23.MAR.2023 04:32:48

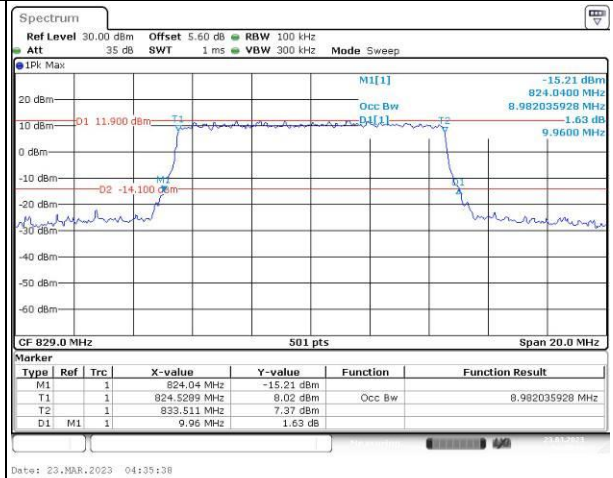
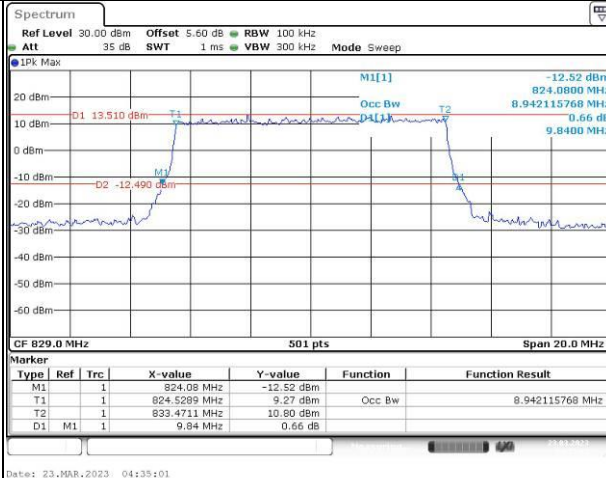
Occupied Bandwidth

Channel

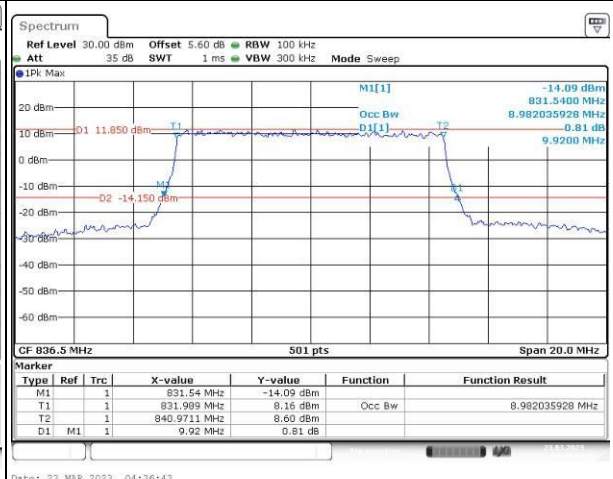
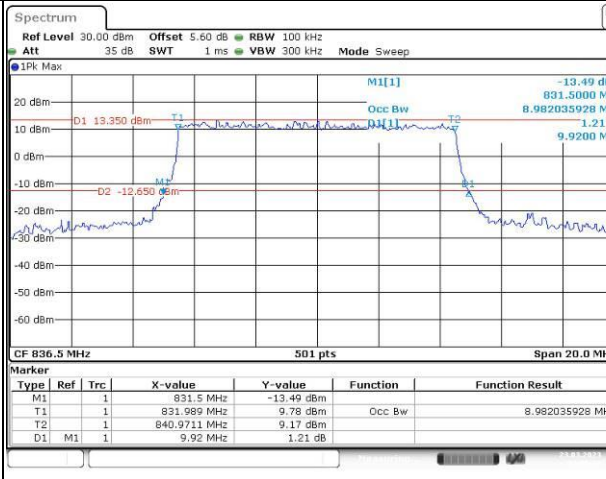
10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

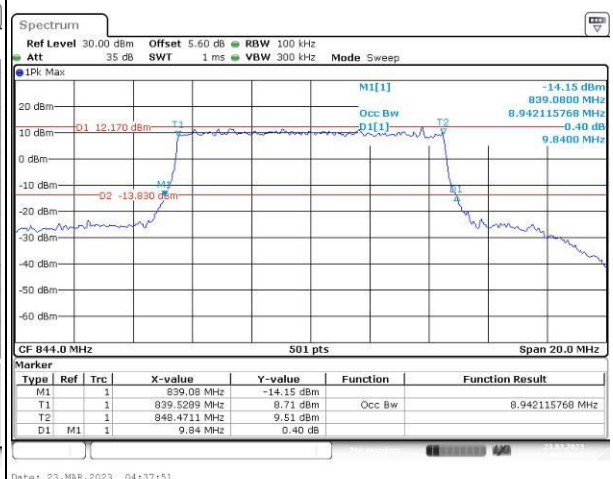
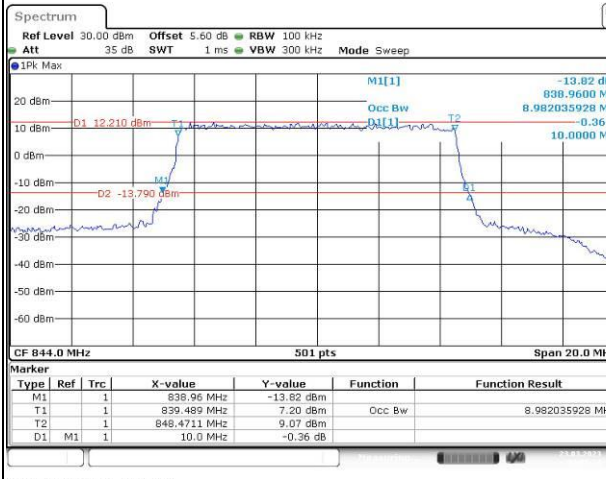
Lowest



Middle



Highest

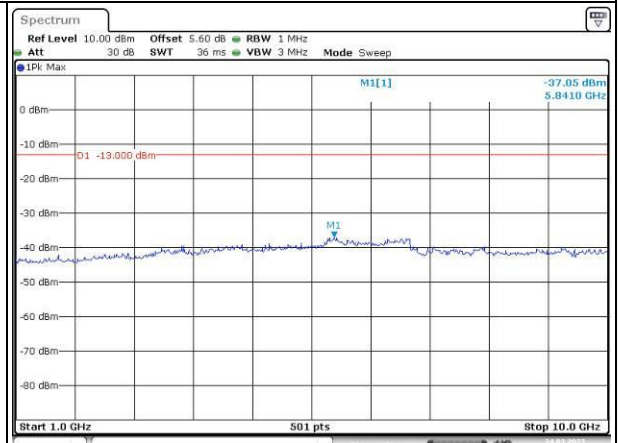
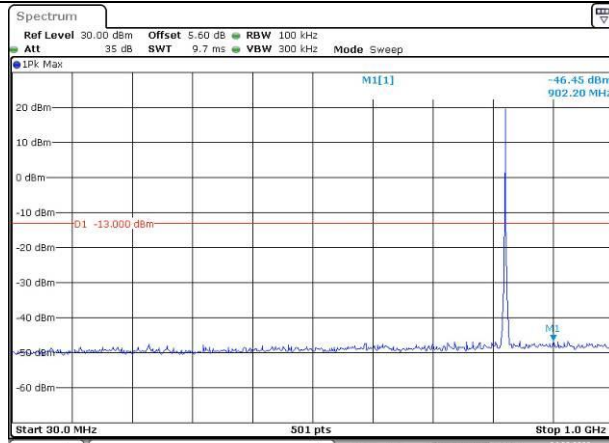


Spurious Emissions at Antenna Terminal

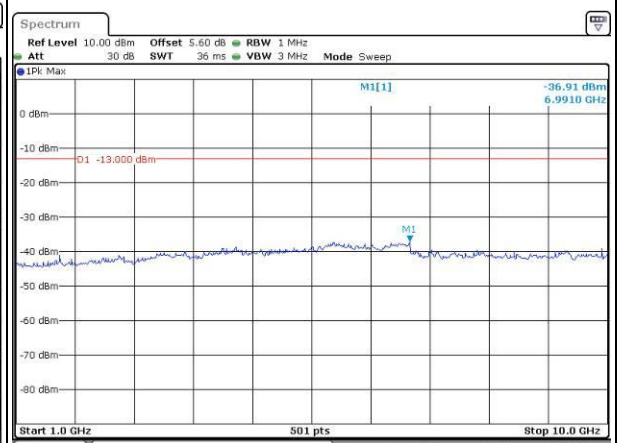
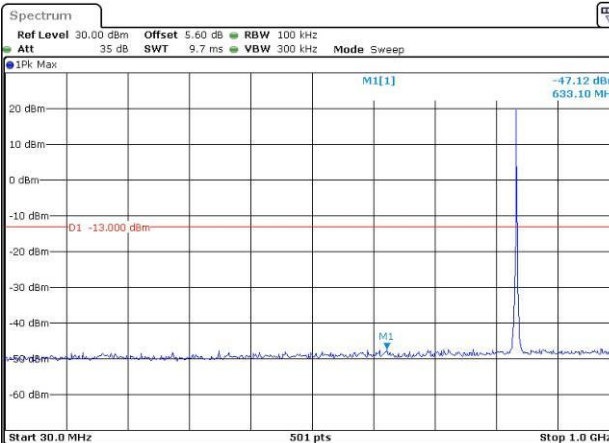
Channel

1.4MHz Bandwidth QPSK

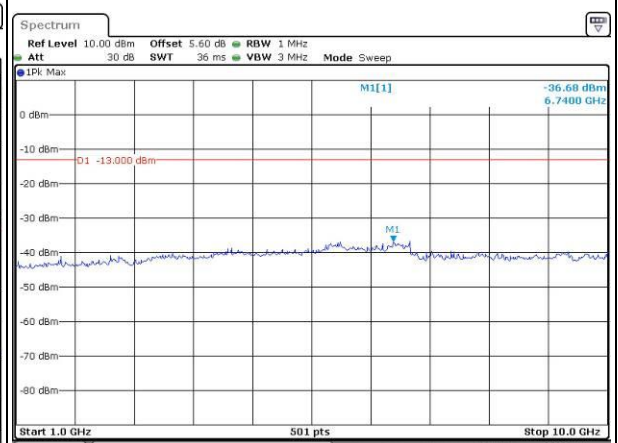
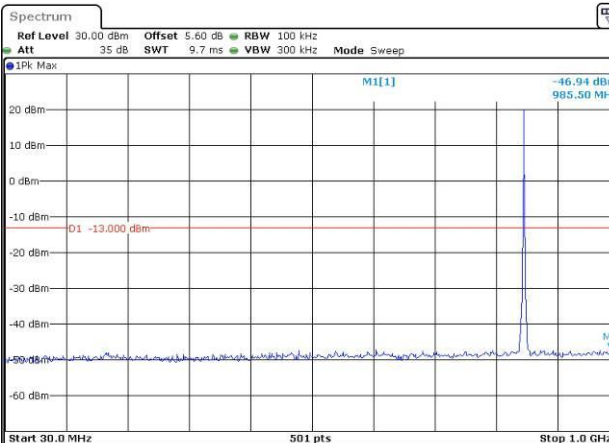
Lowest



Middle



Highest

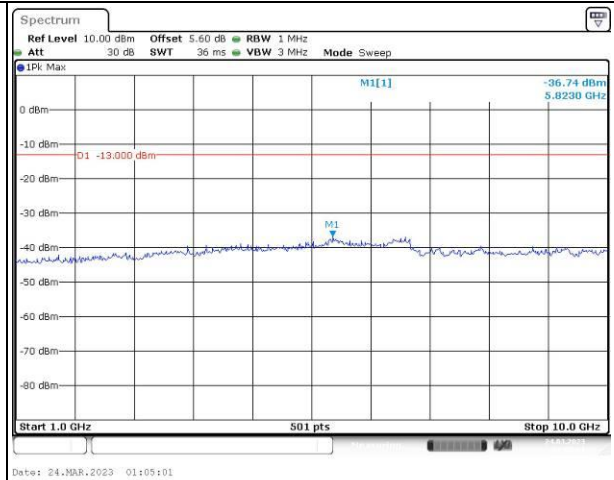
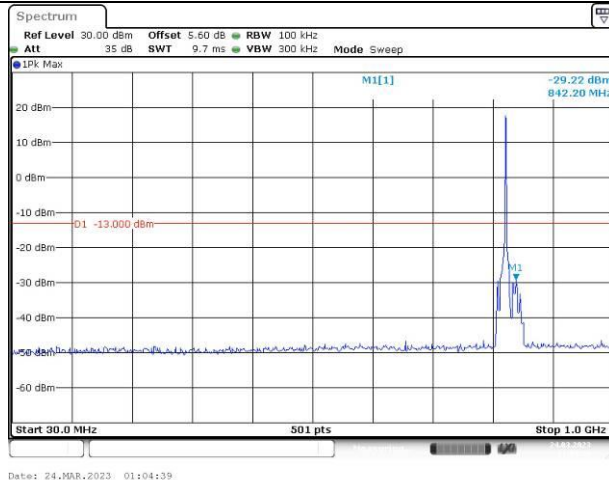


Spurious Emissions at Antenna Terminal

Channel

3MHz Bandwidth QPSK

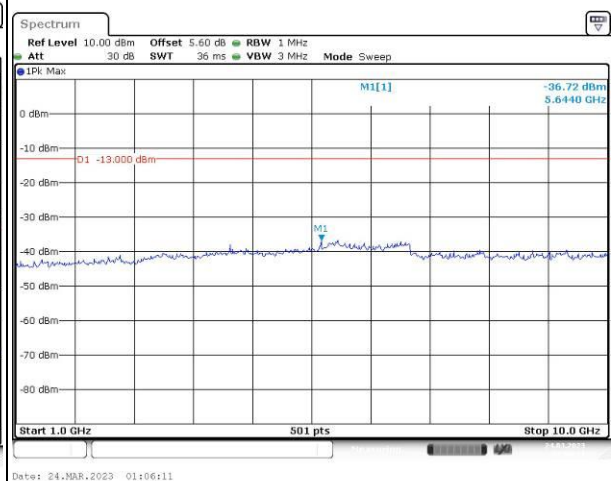
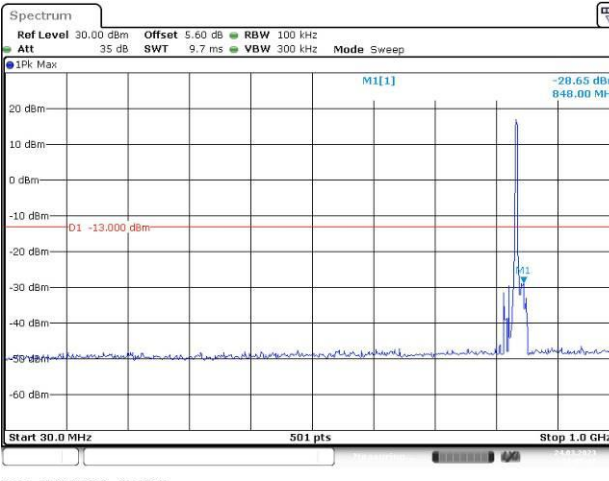
Lowest



Date: 24.MAR.2023 01:04:39

Date: 24.MAR.2023 01:05:01

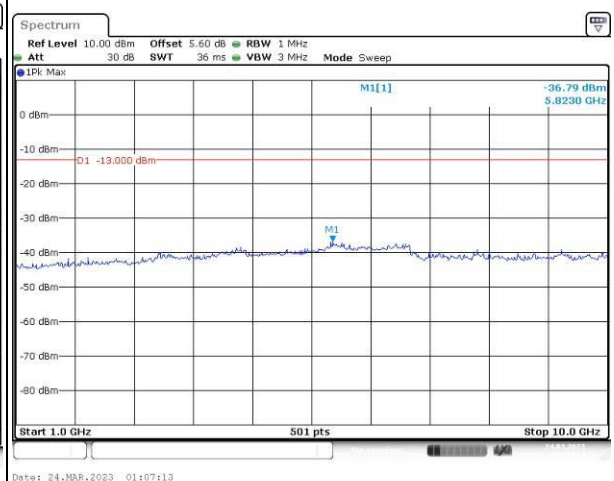
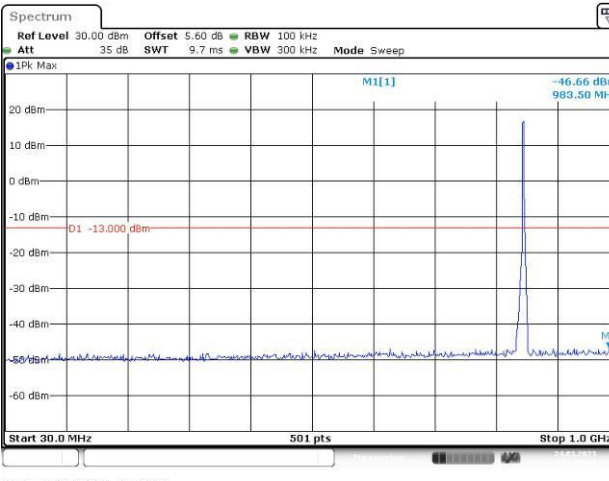
Middle



Date: 24.MAR.2023 01:05:41

Date: 24.MAR.2023 01:06:11

Highest



Date: 24.MAR.2023 01:06:44

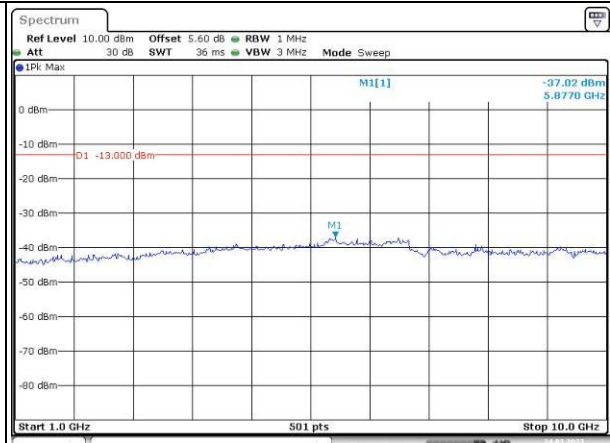
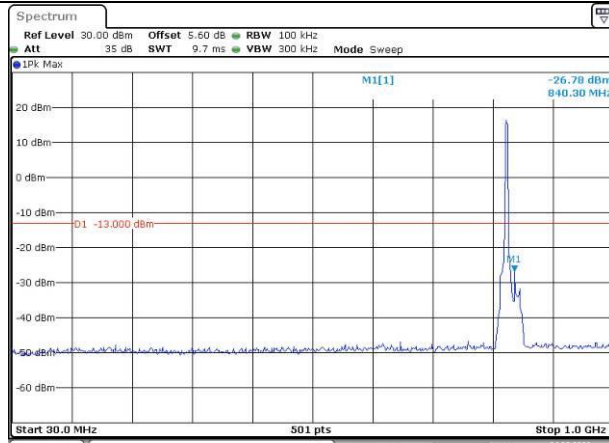
Date: 24.MAR.2023 01:07:13

Spurious Emissions at Antenna Terminal

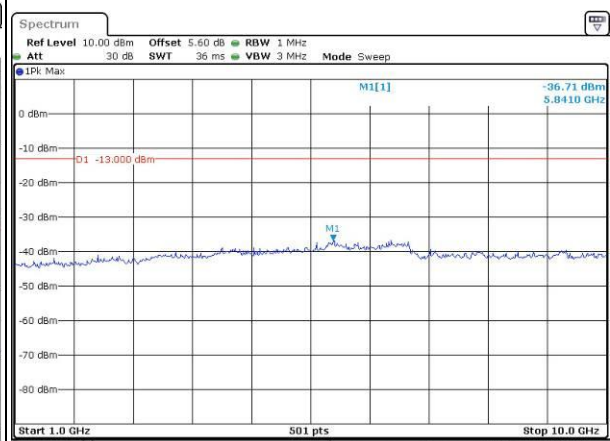
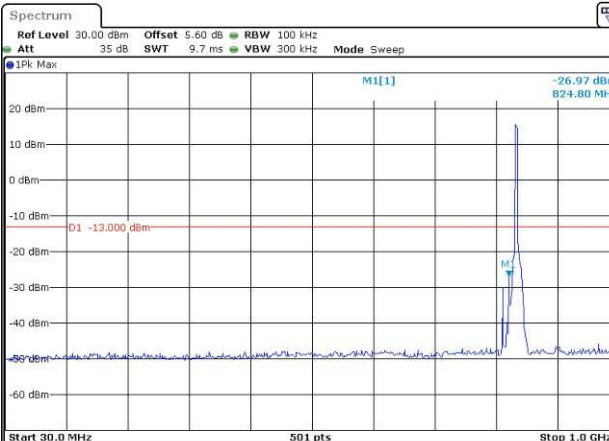
Channel

5MHz Bandwidth QPSK

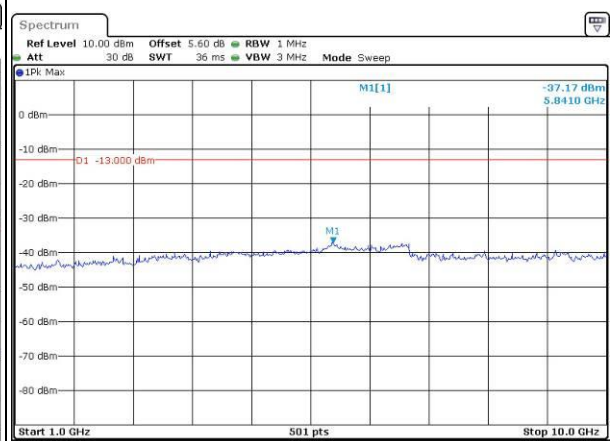
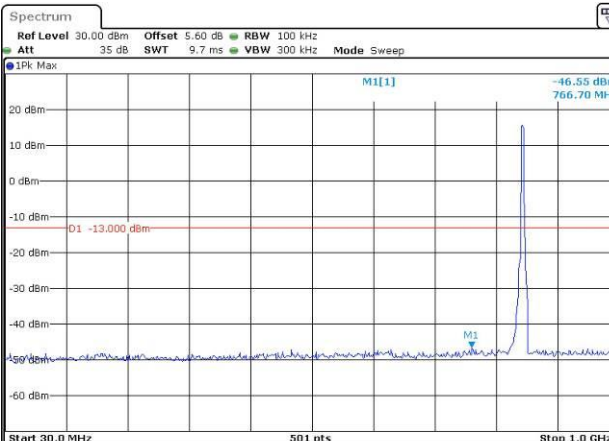
Lowest



Middle



Highest

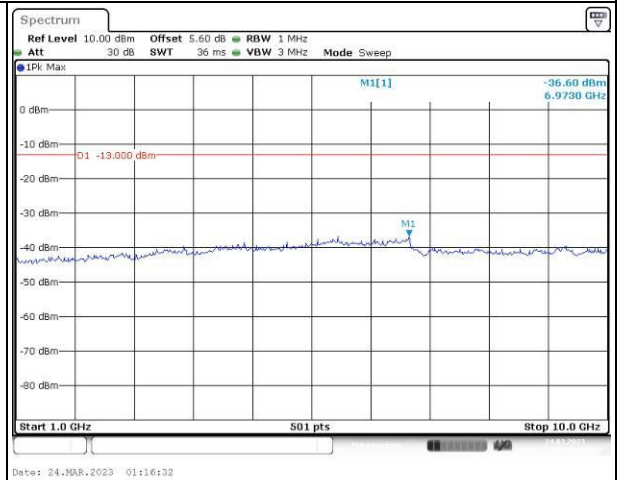


Spurious Emissions at Antenna Terminal

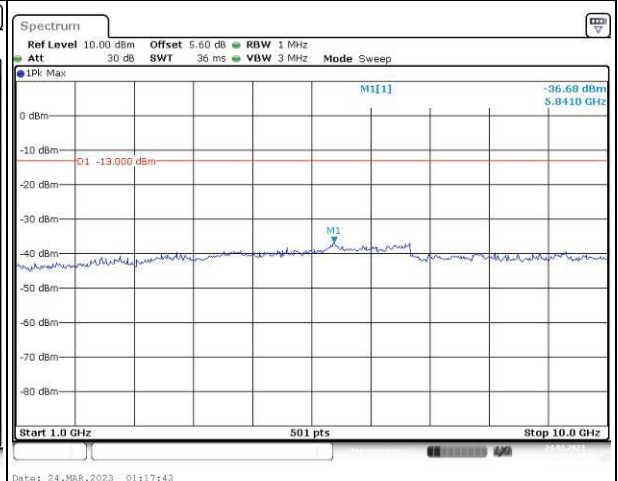
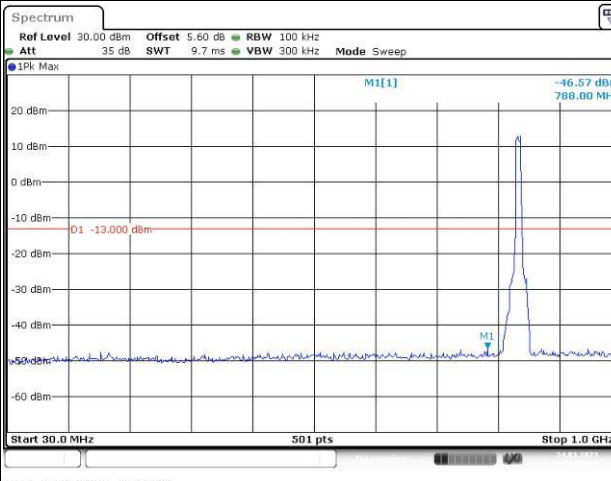
Channel

10MHz Bandwidth QPSK

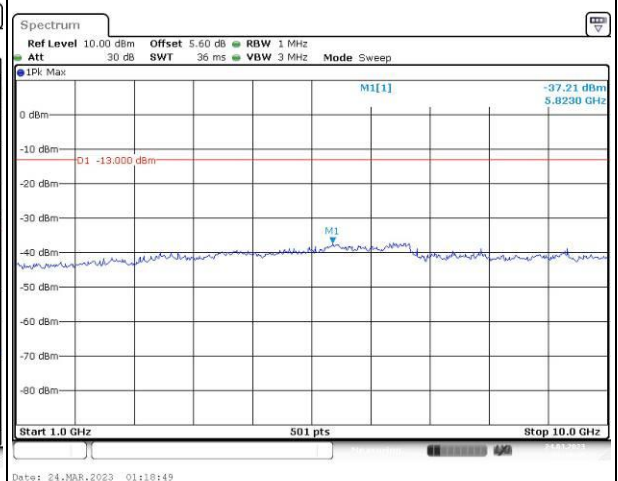
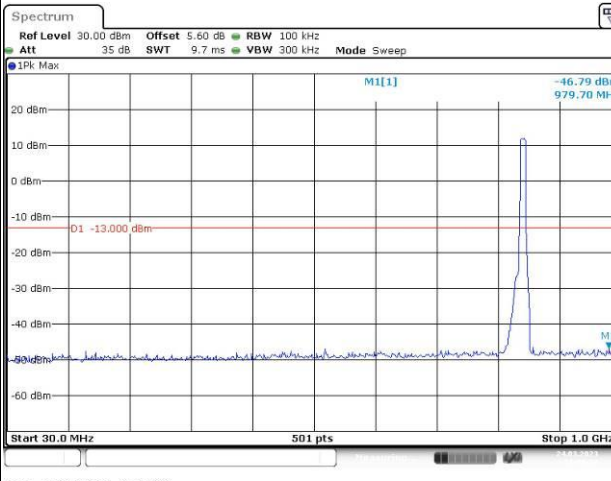
Lowest



Middle



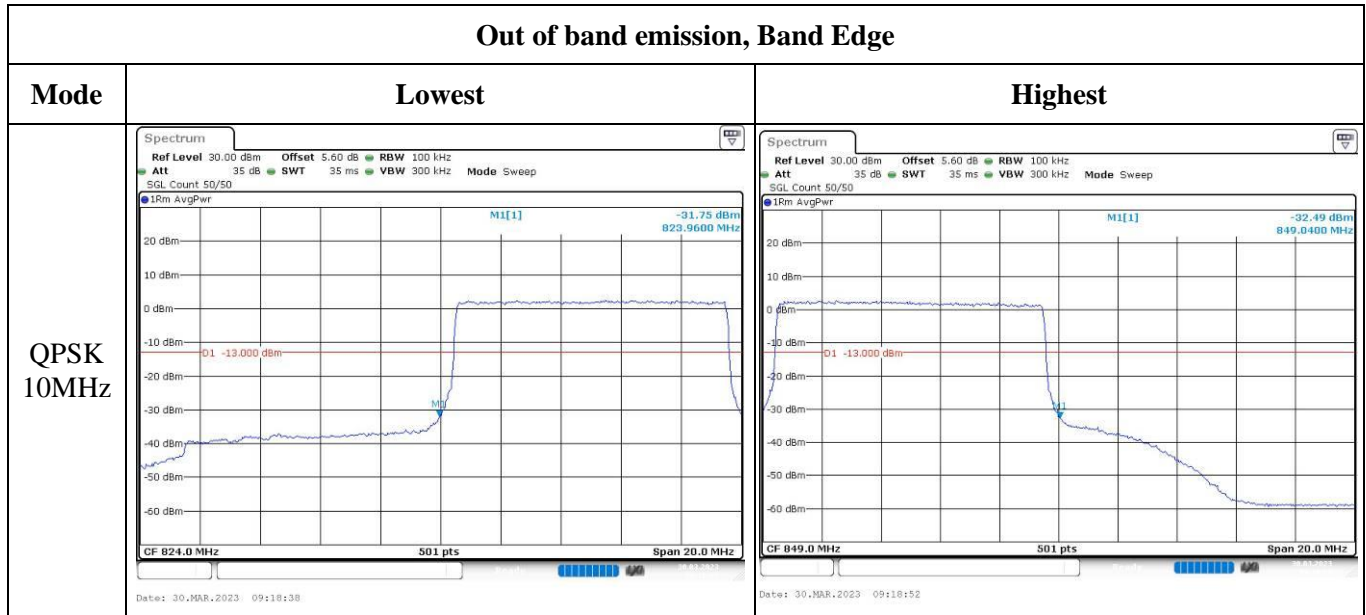
Highest



Out of band emission, Band Edge

| Mode | Lowest | Highest |
|------------------------|--------|---------|
| <p>QPSK 1.4MHz</p> | | |
| <p>QPSK 3MHz</p> | | |
| <p>QPSK 5MHz</p> | | |

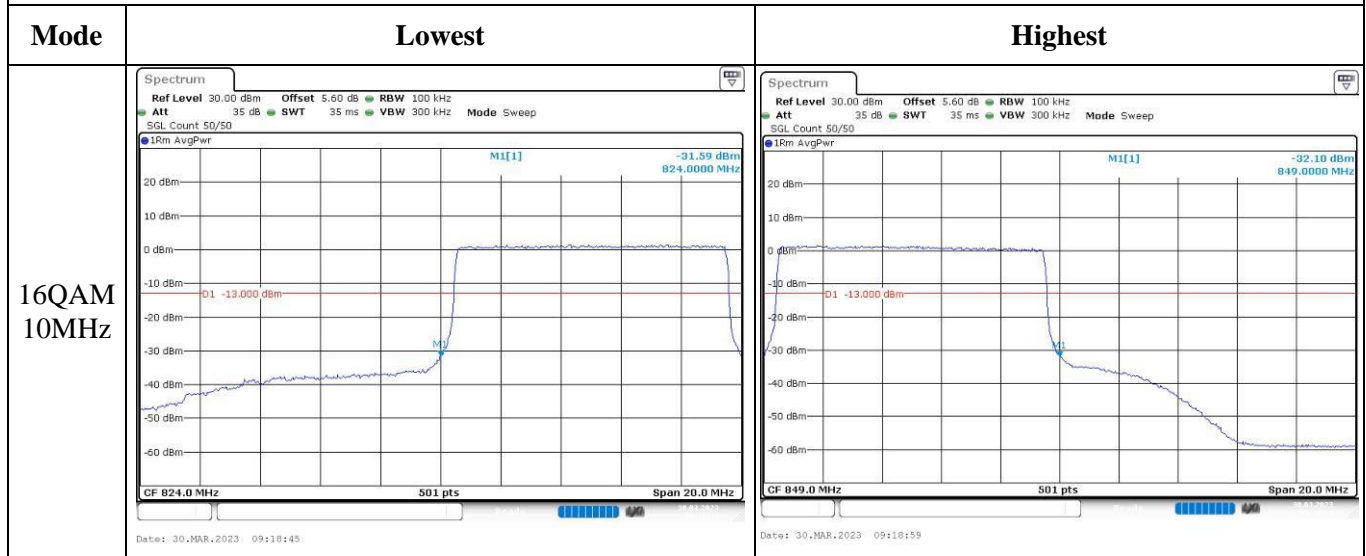
Out of band emission, Band Edge



Out of band emission, Band Edge

| Mode | Lowest | Highest |
|-----------------|--|--|
| 16QAM 1.4MHz | <p>Ref Level 30.00 dBm Offset 5.60 dB RBW 30 kHz Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep SGL Count 50/50 M1[1] -28.41 dBm 824.00000 MHz D1 -13.000 dBm CF 824.0 MHz 501 pts Span 3.0 MHz Date: 30.MAR.2023 09:15:24</p> | <p>Ref Level 30.00 dBm Offset 5.60 dB RBW 30 kHz Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep SGL Count 50/50 M1[1] -28.59 dBm 849.00600 MHz D1 -13.000 dBm CF 849.0 MHz 501 pts Span 3.0 MHz Date: 30.MAR.2023 09:15:36</p> |
| 16QAM 3MHz | <p>Ref Level 30.00 dBm Offset 5.60 dB RBW 30 kHz Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep SGL Count 50/50 M1[1] -32.74 dBm 824.00000 MHz D1 -13.000 dBm CF 824.0 MHz 501 pts Span 6.0 MHz Date: 30.MAR.2023 09:16:15</p> | <p>Ref Level 30.00 dBm Offset 5.60 dB RBW 30 kHz Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep SGL Count 50/50 M1[1] -32.25 dBm 849.01200 MHz D1 -13.000 dBm CF 849.0 MHz 501 pts Span 6.0 MHz Date: 30.MAR.2023 09:16:28</p> |
| 16QAM 5MHz | <p>Ref Level 30.00 dBm Offset 5.60 dB RBW 100 kHz Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep SGL Count 50/50 M1[1] -25.42 dBm 824.00000 MHz D1 -13.000 dBm CF 824.0 MHz 501 pts Span 10.0 MHz Date: 30.MAR.2023 09:17:37</p> | <p>Ref Level 30.00 dBm Offset 5.60 dB RBW 100 kHz Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep SGL Count 50/50 M1[1] -25.43 dBm 849.00000 MHz D1 -13.000 dBm CF 849.0 MHz 501 pts Span 10.0 MHz Date: 30.MAR.2023 09:17:50</p> |

Out of band emission, Band Edge



4.9 Antenna Port Test Data and Results for LTE Band 7

| | | | |
|----------------|----------|--------------|---------------------|
| Serial Number: | 2205 | Test Date: | 2023/3/22~2023/3/30 |
| Test Site: | RF | Test Mode: | Transmitting |
| Tester: | Jou Zhou | Test Result: | Pass |

Environmental Conditions:

| | | | | | |
|----------------------|-----------|---------------------------|-------|------------------------|-------------|
| Temperature: (°C) | 24.1~25.3 | Relative Humidity: (%) | 41~56 | ATM Pressure: (kPa) | 100.1~101.6 |
|----------------------|-----------|---------------------------|-------|------------------------|-------------|

Test Equipment List and Details:

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|---------------|-------------------------------------|---------------|-----------------|------------------|----------------------|
| R&S | Spectrum Analyzer | FSV40 | 101474 | 2022/7/15 | 2023/7/14 |
| zhuoxiang | Coaxial Cable | SMA-178 | 211001 | Each time | N/A |
| YINSAIGE | Coaxial Cable | SS402 | SJ0100004 | Each time | N/A |
| Mini-Circuits | DC Block | BLK-18-S+ | 1554404 | Each time | N/A |
| eastsheep | Coaxial Attenuator | 2W-SMA-JK-18G | 21060301 | Each time | N/A |
| Weinschel | Power splitter | 1515 | RA915 | Each time | N/A |
| R&S | Wideband Radio Communication Tester | CMW500 | 149218 | 2022/7/15 | 2023/7/14 |
| BACL | TEMP&HUMI Test Chamber | BTH-150-40 | 30174 | 2022/4/6 | 2023/4/5 |
| UNI-T | Multimeter | UT39A+ | C210582554 | 2022/9/29 | 2023/9/28 |
| ZHAOXIN | DC Power Supply | RXN-6010D | 21R6010D0912386 | N/A | N/A |

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Frequency For Each Mode:

| Operation Bandwidth | Lowest Frequency (MHz) | Middle Frequency (MHz) | Highest Frequency (MHz) |
|---------------------|------------------------|------------------------|-------------------------|
| 5MHz | 2502.5 | 2535 | 2567.5 |
| 10MHz | 2505 | 2535 | 2565 |
| 15MHz | 2507.5 | 2535 | 2562.5 |
| 20MHz | 2510 | 2535 | 2560 |

Test Data:**FCC §2.1046; §27.50(h)(2)****RF Output Power:**

| Test Bandwidth & Modulation | Resource Block & RB offset | Conducted Average Output Power(dBm) | | | Maximum EIRP (dBm) | EIRP Limit (dBm) |
|-----------------------------|----------------------------|-------------------------------------|----------------|-----------------|--------------------|------------------|
| | | Lowest Channel | Middle Channel | Highest Channel | | |
| 5MHz QPSK | RB1#0 | 22.34 | 22.24 | 22.14 | 25.46 | 33 |
| | RB1#13 | 22.4 | 22.36 | 22.24 | | |
| | RB1#24 | 22.29 | 22.29 | 22.18 | | |
| | RB15#0 | 21.39 | 21.39 | 21.27 | | |
| | RB15#10 | 21.26 | 21.28 | 21.21 | | |
| | RB25#0 | 21.27 | 21.28 | 21.14 | | |
| 5MHz 16QAM | RB1#0 | 21.39 | 21.24 | 20.98 | 24.55 | 33 |
| | RB1#13 | 21.49 | 21.31 | 21.07 | | |
| | RB1#24 | 21.43 | 21.19 | 20.95 | | |
| | RB15#0 | 20.29 | 20.35 | 20.26 | | |
| | RB15#10 | 20.22 | 20.26 | 20.19 | | |
| | RB25#0 | 20.24 | 20.28 | 20.22 | | |
| 10MHz QPSK | RB1#0 | 22.47 | 22.39 | 22.3 | 25.61 | 33 |
| | RB1#25 | 22.55 | 22.51 | 22.38 | | |
| | RB1#49 | 22.4 | 22.39 | 22.26 | | |
| | RB25#0 | 21.41 | 21.39 | 21.27 | | |
| | RB25#25 | 21.35 | 21.27 | 21.28 | | |
| | RB50#0 | 21.35 | 21.33 | 21.24 | | |
| 10MHz 16QAM | RB1#0 | 21.24 | 21.73 | 21.4 | 24.85 | 33 |
| | RB1#25 | 21.41 | 21.79 | 21.47 | | |
| | RB1#49 | 21.3 | 21.64 | 21.29 | | |
| | RB25#0 | 20.45 | 20.4 | 20.22 | | |
| | RB25#25 | 20.43 | 20.26 | 20.25 | | |
| | RB50#0 | 20.36 | 20.35 | 20.26 | | |
| 15MHz QPSK | RB1#0 | 22.37 | 22.3 | 22.19 | 25.51 | 33 |
| | RB1#38 | 22.41 | 22.45 | 22.32 | | |
| | RB1#74 | 22.27 | 22.31 | 22.24 | | |
| | RB36#0 | 21.51 | 21.56 | 21.26 | | |
| | RB36#39 | 21.51 | 21.44 | 21.4 | | |
| | RB75#0 | 21.51 | 21.54 | 21.38 | | |
| 15MHz 16QAM | RB1#0 | 21.39 | 21.69 | 21.28 | 24.75 | 33 |
| | RB1#38 | 21.58 | 21.68 | 21.42 | | |
| | RB1#74 | 21.61 | 21.63 | 21.26 | | |
| | RB36#0 | 20.39 | 20.45 | 20.26 | | |
| | RB36#39 | 20.45 | 20.35 | 20.36 | | |
| | RB75#0 | 20.38 | 20.39 | 20.34 | | |

| | | | | | | |
|--|---------|-------|-------|-------|----------------|-------------|
| 20MHz QPSK | RB1#0 | 22.08 | 22.07 | 22.06 | 25.59 | 33 |
| | RB1#50 | 22.52 | 22.53 | 22.36 | | |
| | RB1#99 | 22.14 | 22.05 | 22.05 | | |
| | RB50#0 | 21.33 | 21.36 | 21.15 | | |
| | RB50#50 | 21.49 | 21.17 | 21.36 | | |
| | RB100#0 | 21.44 | 21.36 | 21.26 | | |
| 20MHz 16QAM | RB1#0 | 21.11 | 21.59 | 21.25 | 24.92 | 33 |
| | RB1#50 | 21.6 | 21.86 | 21.71 | | |
| | RB1#99 | 21.28 | 21.46 | 21.22 | | |
| | RB50#0 | 20.34 | 20.33 | 20.14 | | |
| | RB50#50 | 20.48 | 20.12 | 20.32 | | |
| | RB100#0 | 20.4 | 20.24 | 20.28 | | |
| Note: EIRP=Conducted Power(dBm) - Lc(dB) + Gr(dBi) | | | | | | |
| | | | | | Result: | Pass |

Peak-to-average Ratio(PAR)

| Test Bandwidth & Modulation | Resource Block & RB offset | Peak-to-average Ratio(dB) | | | Limit(dB) | |
|-----------------------------|----------------------------|---------------------------|----------------|-----------------|----------------|-------------|
| | | Lowest Channel | Middle Channel | Highest Channel | | |
| 20MHz QPSK | RB1#0 | 2.64 | 4 | 2.67 | 13 | |
| | RB100#0 | 3.71 | 3.68 | 3.88 | 13 | |
| 20MHz 16QAM | RB1#0 | 3.62 | 4.99 | 3.68 | 13 | |
| | RB100#0 | 5.42 | 5.45 | 5.54 | 13 | |
| | | | | | Result: | Pass |

FCC §2.1049, §27.53:Occupied Bandwidth

| Operation Mode | 99% Occupied Bandwidth (MHz) | | | 26 dB Occupied Bandwidth (MHz) | | |
|--|------------------------------|----------------|--------------|--------------------------------|----------------|--------------|
| | Low Channel | Middle channel | High Channel | Low Channel | Middle Channel | High Channel |
| 5MHz QPSK | 4.551 | 4.511 | 4.551 | 5.2 | 5.18 | 5.28 |
| 5MHz 16QAM | 4.551 | 4.551 | 4.531 | 5.2 | 5.28 | 5.18 |
| 10MHz QPSK | 8.982 | 8.982 | 8.982 | 9.96 | 10 | 10.16 |
| 10MHz 16QAM | 8.982 | 8.982 | 8.982 | 10 | 9.96 | 9.8 |
| 15MHz QPSK | 13.593 | 13.533 | 13.533 | 15.36 | 15.3 | 15.3 |
| 15MHz 16QAM | 13.593 | 13.533 | 13.533 | 15.3 | 15.06 | 15.12 |
| 20MHz QPSK | 18.044 | 17.964 | 17.964 | 19.84 | 19.92 | 19.68 |
| 20MHz 16QAM | 18.044 | 17.884 | 17.964 | 20.16 | 19.68 | 19.76 |
| Note: The test plots please refer to the Plots of Occupied Bandwidth | | | | | | |

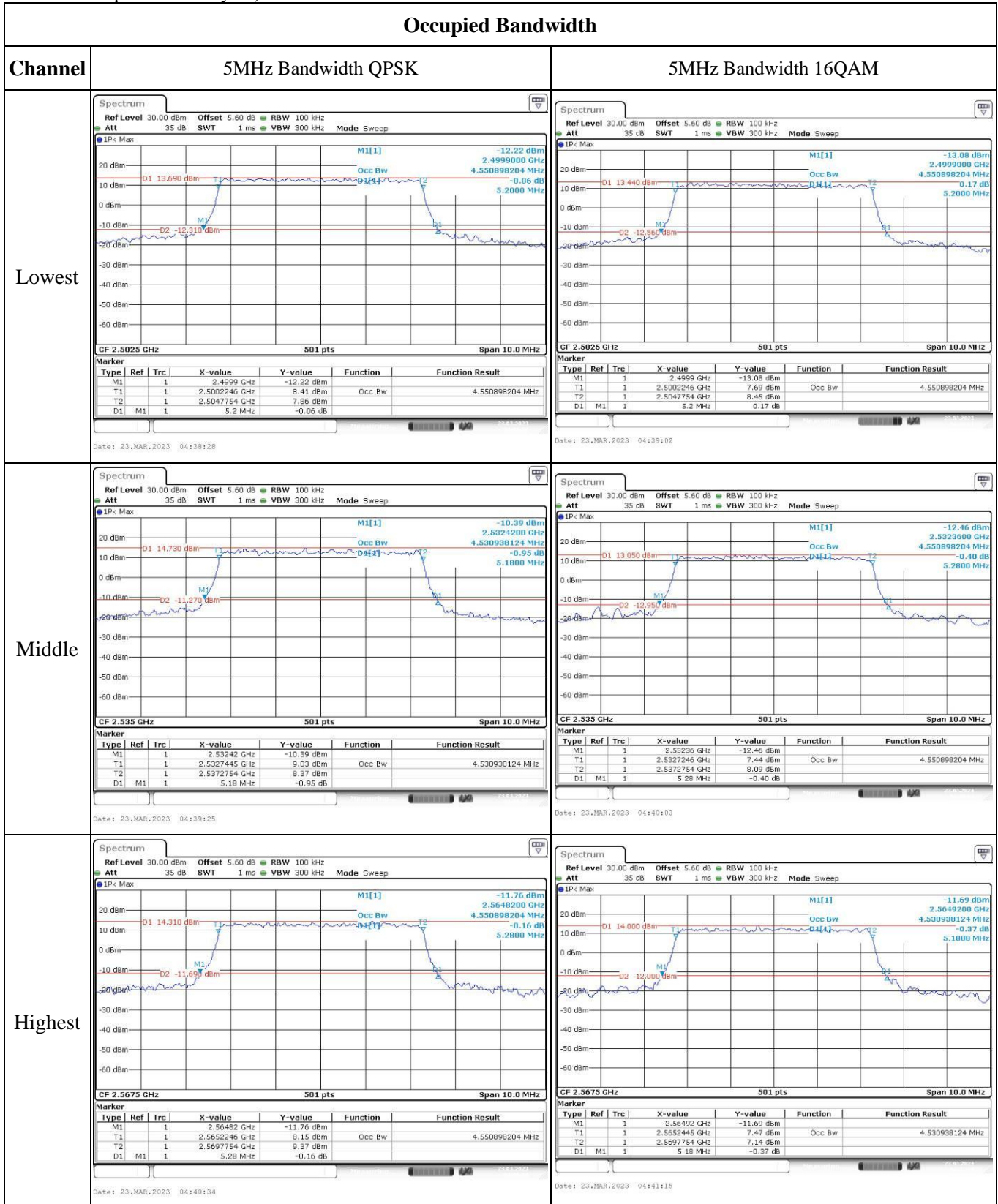
| | |
|---|--|
| FCC §2.1051, §27.53:Spurious Emissions at Antenna Terminal | |
| Result: | Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal. |

| | |
|--|---|
| FCC §2.1051, §27.53:Out of band emission, Band Edge | |
| Result: | Pass, Please refer to the test plots of Out of band emission, Band Edge. |

| FCC §2.1055, §27.54: Frequency Stability | | | | | | |
|---|------------------|--|------------------|---------|------------------|-------------|
| Test Mode: | 20M QPSK | Test Channel: Lowest for Lower Edge,Highest for Upper Edge | | | | |
| Test Item | Temperature (°C) | Voltage (V _{DC}) | Lower Edge (MHz) | | Upper Edge (MHz) | |
| | | | Result | Limit | Result | Limit |
| Frequency Stability vs. Temperature | -30 | 3.8 | 2501.044 | 2500.00 | 2569.054 | 2570 |
| | -20 | 3.8 | 2501.018 | 2500.00 | 2569.039 | 2570 |
| | -10 | 3.8 | 2501.005 | 2500.00 | 2569.034 | 2570 |
| | 0 | 3.8 | 2501.079 | 2500.00 | 2569.014 | 2570 |
| | 10 | 3.8 | 2501.075 | 2500.00 | 2569.084 | 2570 |
| | 20 | 3.8 | 2501.058 | 2500.00 | 2569.022 | 2570 |
| | 30 | 3.8 | 2501.056 | 2500.00 | 2569.019 | 2570 |
| | 40 | 3.8 | 2501.021 | 2500.00 | 2569.018 | 2570 |
| Frequency Stability vs. Voltage | 20 | 3.3 | 2501.021 | 2500.00 | 2569.023 | 2570 |
| | 20 | 4.3 | 2501.018 | 2500.00 | 2569.021 | 2570 |
| | | | | | Result: | Pass |

| Test Mode: | 20M 16QAM | Test Channel: Lowest for Lower Edge,Highest for Upper Edge | | | | |
|-------------------------------------|------------------|--|------------------|---------|------------------|-------------|
| Test Item | Temperature (°C) | Voltage (V _{DC}) | Lower Edge (MHz) | | Upper Edge (MHz) | |
| | | | Result | Limit | Result | Limit |
| Frequency Stability vs. Temperature | -30 | 3.8 | 2501.003 | 2500.00 | 2569.045 | 2570 |
| | -20 | 3.8 | 2501.079 | 2500.00 | 2569.009 | 2570 |
| | -10 | 3.8 | 2501.054 | 2500.00 | 2569.001 | 2570 |
| | 0 | 3.8 | 2501.033 | 2500.00 | 2569.078 | 2570 |
| | 10 | 3.8 | 2501.003 | 2500.00 | 2569.073 | 2570 |
| | 20 | 3.8 | 2500.978 | 2500.00 | 2569.022 | 2570 |
| | 30 | 3.8 | 2500.971 | 2500.00 | 2569.022 | 2570 |
| | 40 | 3.8 | 2500.934 | 2500.00 | 2569.020 | 2570 |
| Frequency Stability vs. Voltage | 20 | 3.3 | 2500.938 | 2500.00 | 2569.027 | 2570 |
| | 20 | 4.3 | 2500.938 | 2500.00 | 2569.021 | 2570 |
| | | | | | Result: | Pass |

Test Plots(Note: The 5.6dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer):



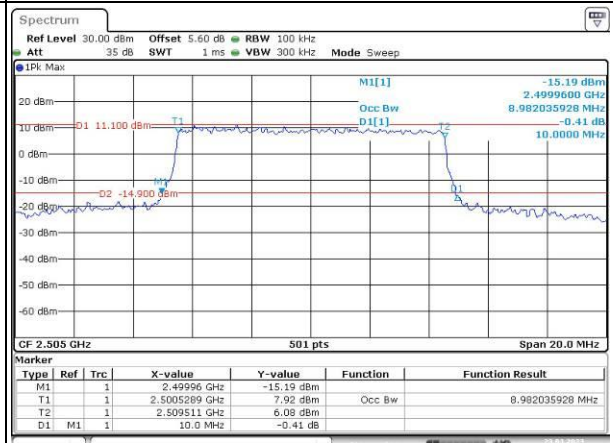
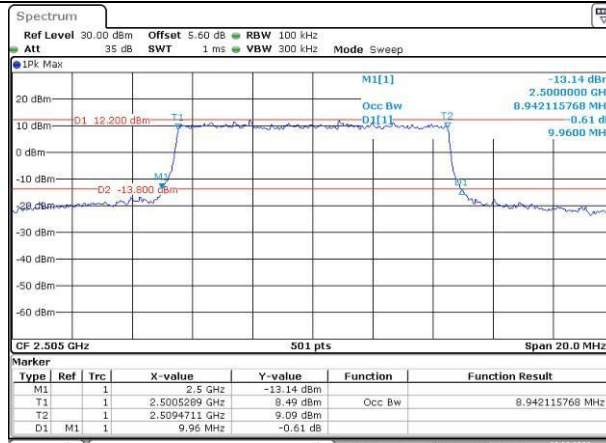
Occupied Bandwidth

Channel

10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

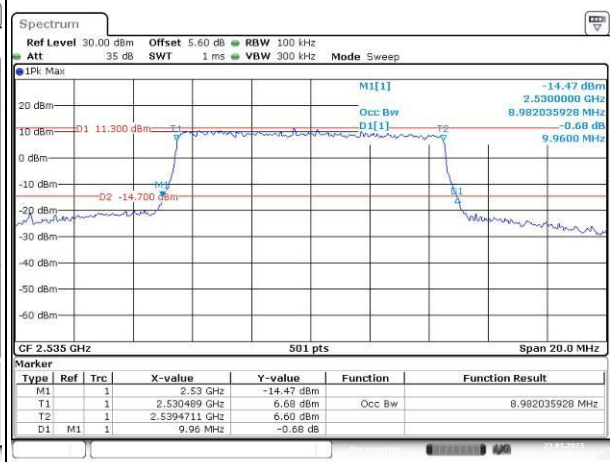
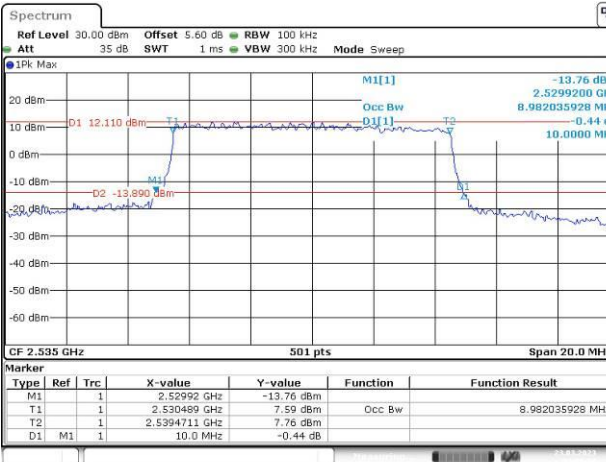
Lowest



Date: 23.MAR.2023 04:42:23

Date: 23.MAR.2023 04:42:56

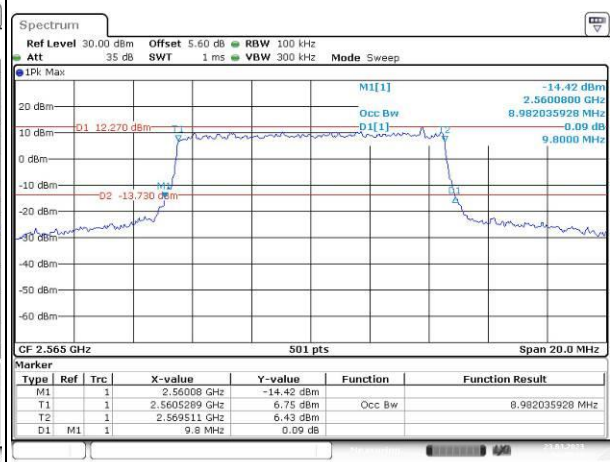
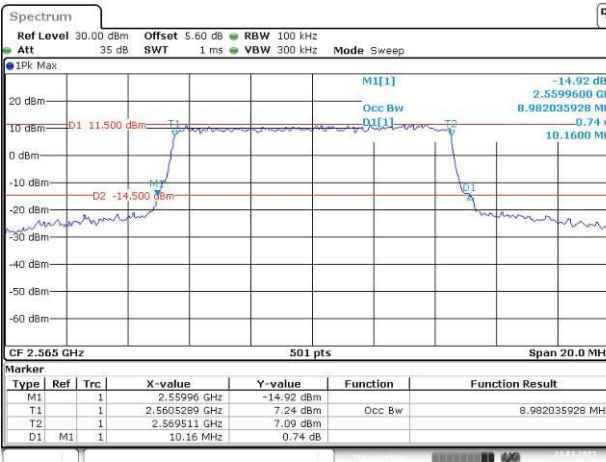
Middle



Date: 23.MAR.2023 04:43:34

Date: 23.MAR.2023 04:44:12

Highest



Date: 23.MAR.2023 04:44:53

Date: 23.MAR.2023 04:45:30