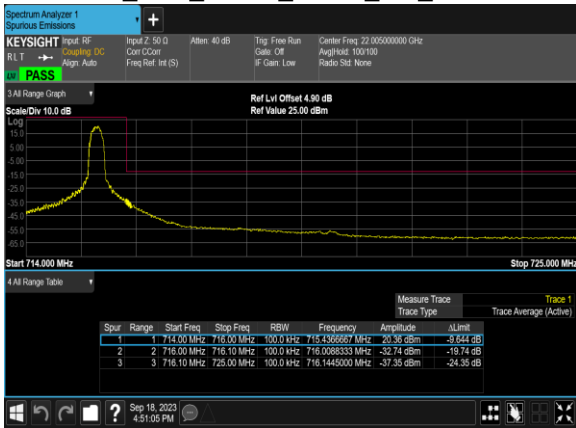
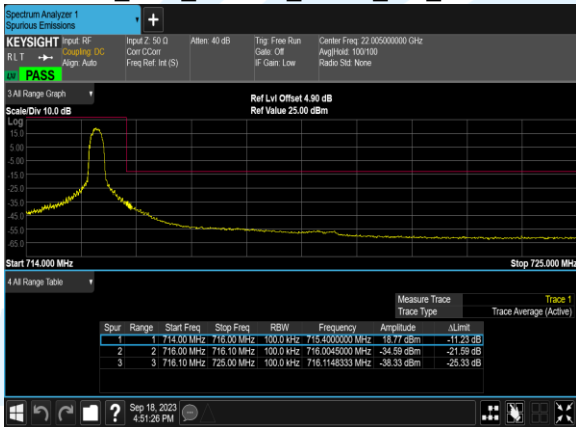


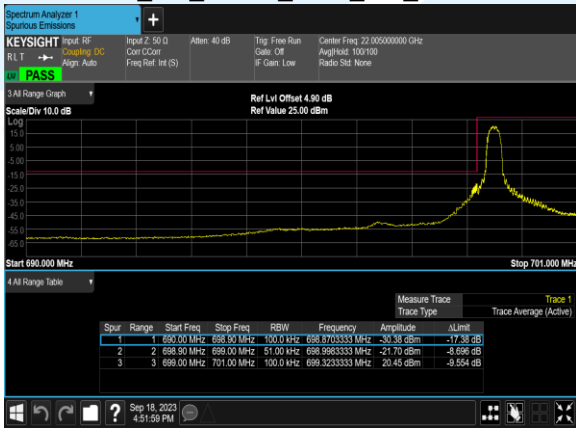
B12_10M_QPSK_1@49_CH_23130



B12_10M_16QAM_1@49_CH_23130



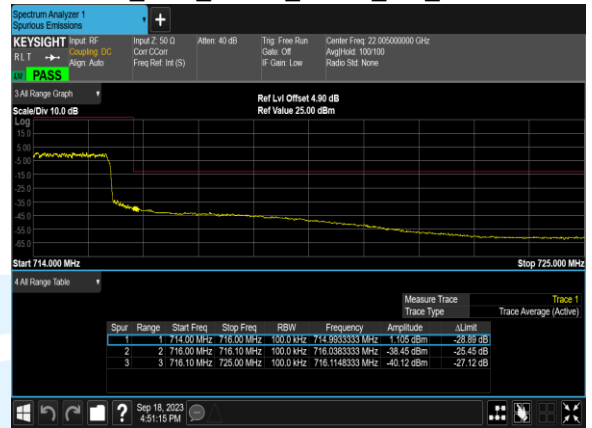
B12_5M_QPSK_1@0_CH_23035



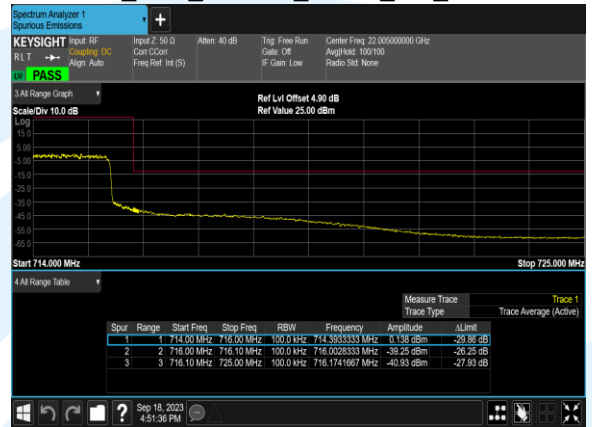
B12_5M_16QAM_1@0_CH_23035



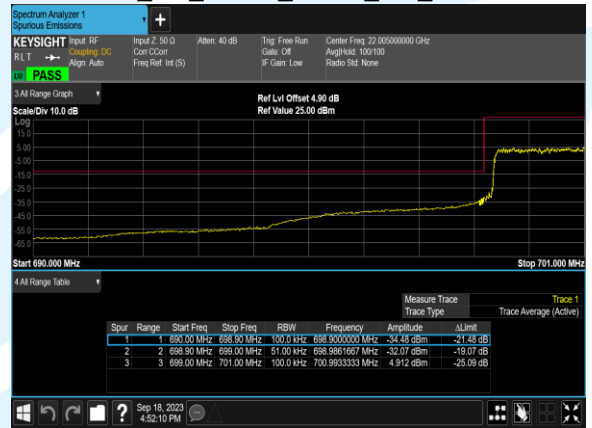
B12_10M_QPSK_50@0_CH_23130



B12_10M_16QAM_50@0_CH_23130



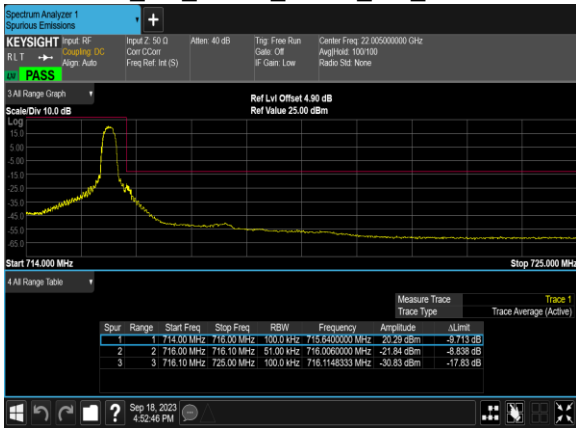
B12_5M_QPSK_25@0_CH_23035



B12_5M_16QAM_25@0_CH_23035



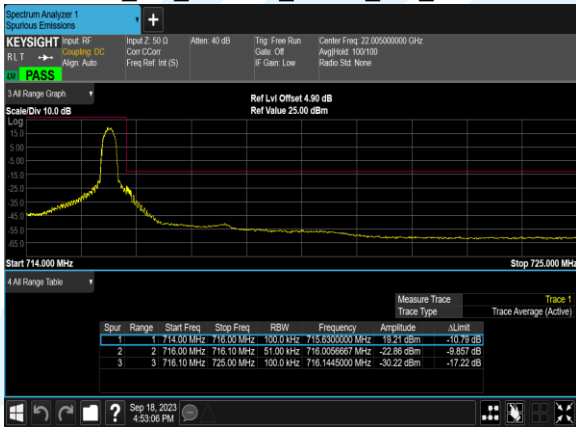
B12_5M_QPSK_1@24_CH_23155



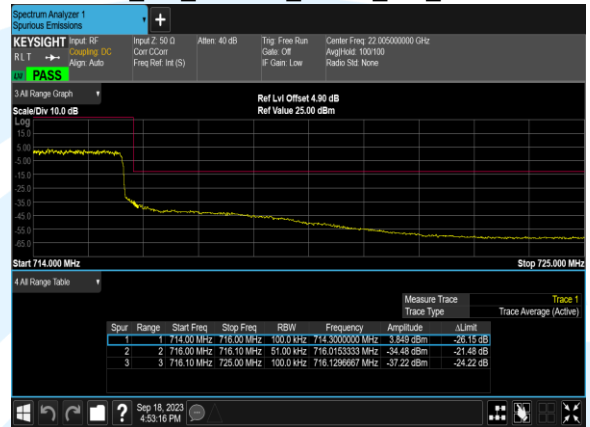
B12_5M_QPSK_25@0_CH_23155



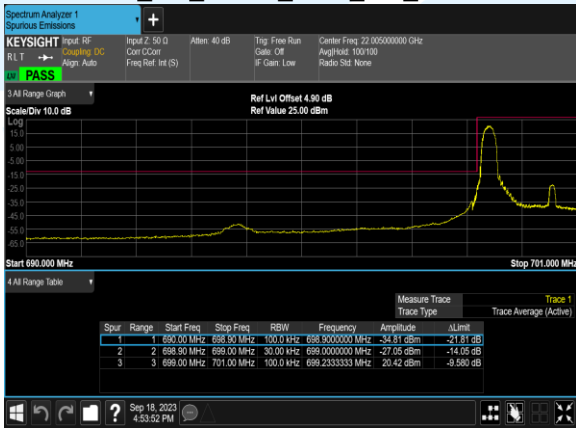
B12_5M_16QAM_1@24_CH_23155



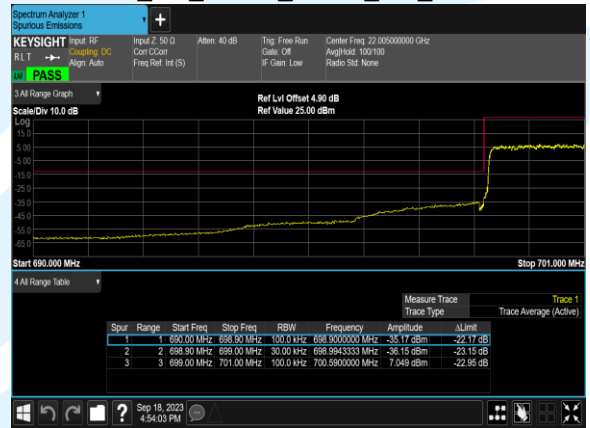
B12_5M_16QAM_25@0_CH_23155



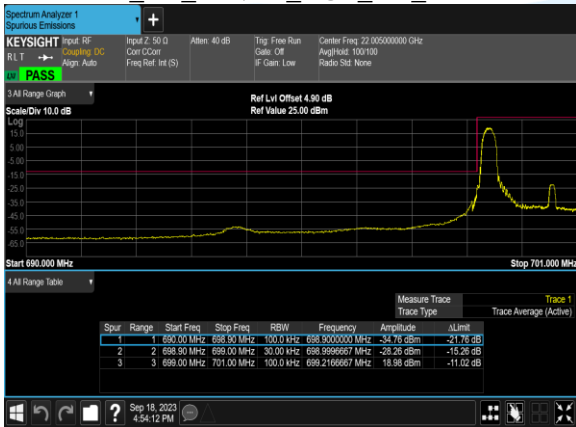
B12_3M_QPSK_1@0_CH_23025



B12_3M_QPSK_15@0_CH_23025



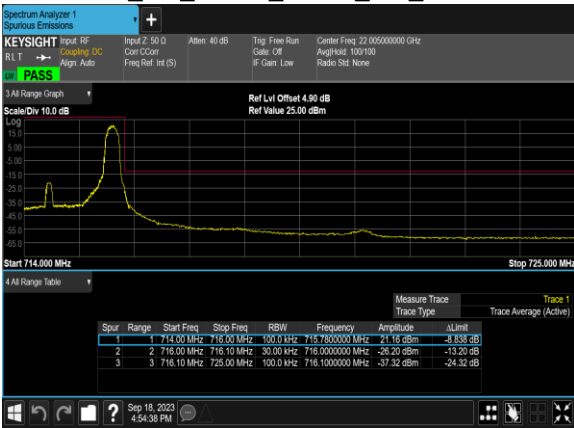
B12_3M_16QAM_1@0_CH_23025



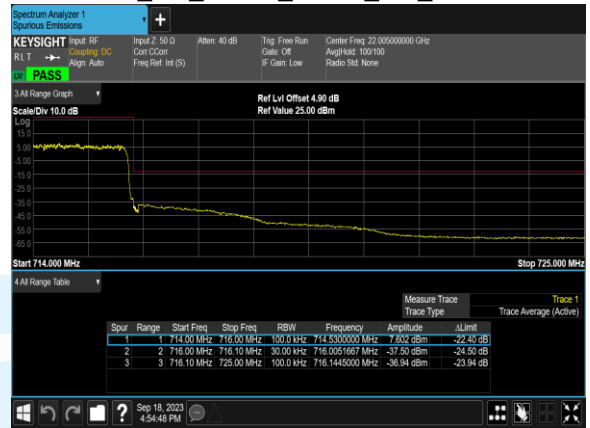
B12_3M_16QAM_15@0_CH_23025



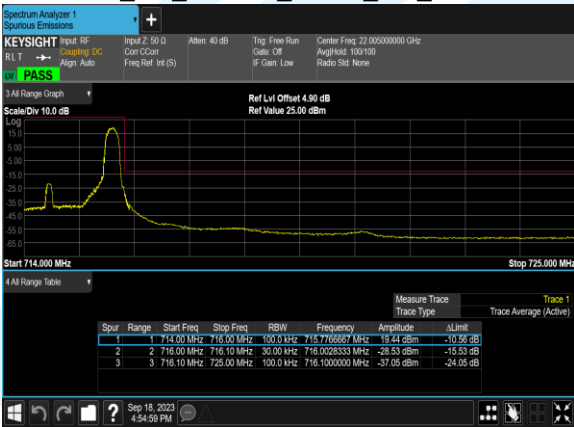
B12_3M_QPSK_1@14_CH_23165



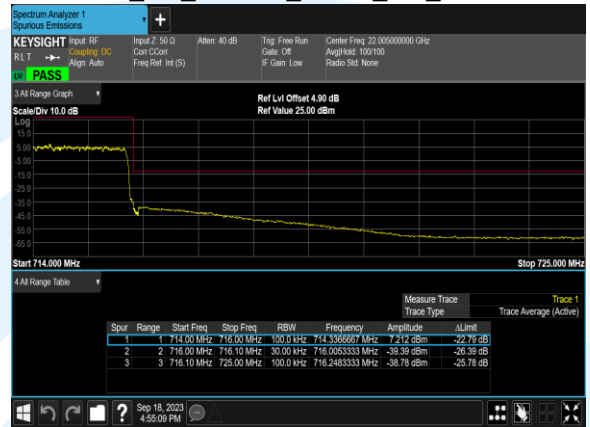
B12_3M_QPSK_15@0_CH_23165



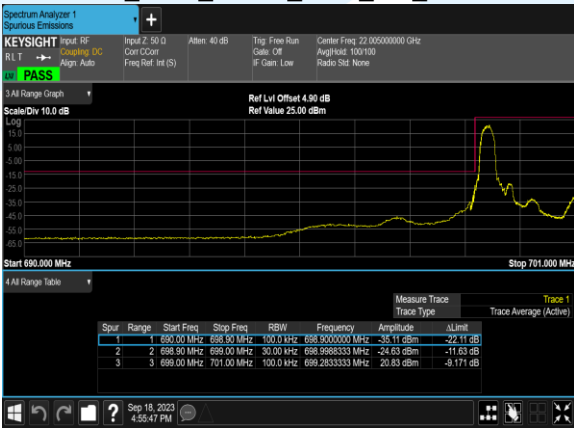
B12_3M_16QAM_1@14_CH_23165



B12_3M_16QAM_15@0_CH_23165



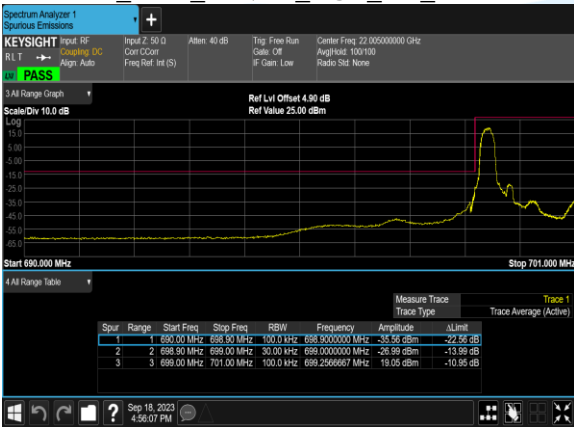
B12_1.4M_QPSK_1@0_CH_23017



B12_1.4M_QPSK_6@0_CH_23017



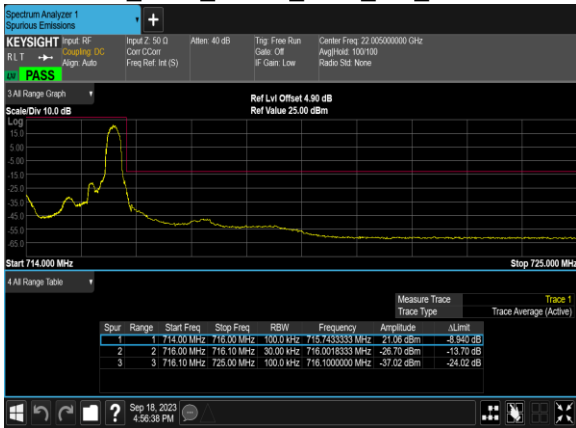
B12_1.4M_16QAM_1@0_CH_23017



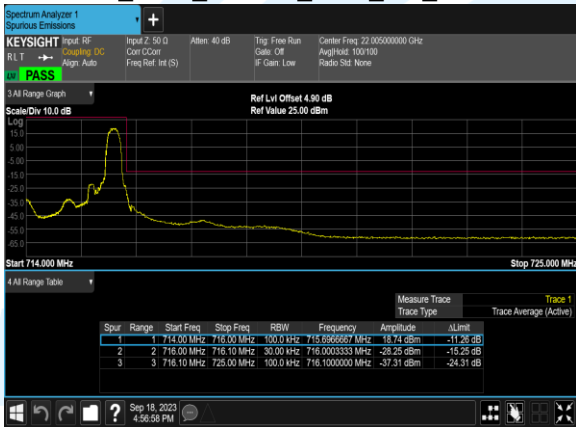
B12_1.4M_16QAM_6@0_CH_23017



B12_1.4M_QPSK_1@5_CH_23173



B12_1.4M_16QAM_1@5_CH_23173



B12_1.4M_QPSK_6@0_CH_23173



B12_1.4M_16QAM_6@0_CH_23173



A.5 LTE BAND 17

Peak to Average Ratio

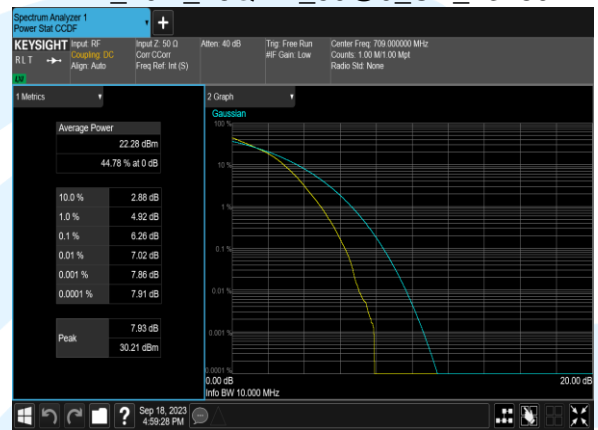
| Band | Bandwidth (MHz) | Channel | Freq (MHz) | Modulation | RB | Result (dB) | Limit (dB) | Verdict |
|------|-----------------|---------|------------|------------|------|-------------|------------|---------|
| 17 | 10.0 | 23780 | 709.0 | QPSK | 50@0 | 5.57 | 13 | PASS |
| 17 | 10.0 | 23780 | 709.0 | 16QAM | 50@0 | 6.26 | 13 | PASS |
| 17 | 10.0 | 23790 | 710.0 | QPSK | 50@0 | 5.50 | 13 | PASS |
| 17 | 10.0 | 23790 | 710.0 | 16QAM | 50@0 | 6.22 | 13 | PASS |
| 17 | 10.0 | 23800 | 711.0 | QPSK | 50@0 | 5.44 | 13 | PASS |
| 17 | 10.0 | 23800 | 711.0 | 16QAM | 50@0 | 6.19 | 13 | PASS |
| 17 | 5.0 | 23755 | 706.5 | QPSK | 25@0 | 5.63 | 13 | PASS |
| 17 | 5.0 | 23755 | 706.5 | 16QAM | 25@0 | 6.22 | 13 | PASS |
| 17 | 5.0 | 23790 | 710.0 | QPSK | 25@0 | 5.57 | 13 | PASS |
| 17 | 5.0 | 23790 | 710.0 | 16QAM | 25@0 | 6.20 | 13 | PASS |
| 17 | 5.0 | 23825 | 713.5 | QPSK | 25@0 | 5.44 | 13 | PASS |
| 17 | 5.0 | 23825 | 713.5 | 16QAM | 25@0 | 6.12 | 13 | PASS |

Test Graphs

B17_10M_QPSK_50@0_CH_23780



B17_10M_16QAM_50@0_CH_23780



B17_10M_QPSK_50@0_CH_23790



B17_10M_16QAM_50@0_CH_23790



B17_10M_QPSK_50@0_CH_23800



B17_10M_16QAM_50@0_CH_23800



B17_5M_QPSK_25@0_CH_23755



B17_5M_16QAM_25@0_CH_23755



B17_5M_QPSK_25@0_CH_23790



B17_5M_16QAM_25@0_CH_23790



B17_5M_QPSK_25@0_CH_23825



B17_5M_16QAM_25@0_CH_23825

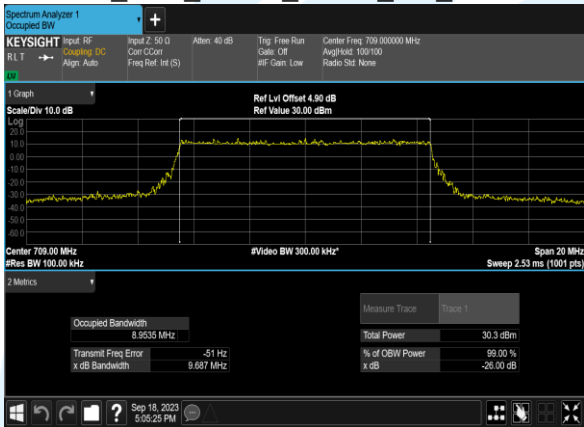


Occupied Bandwidth

| Band | Bandwidth (MHz) | Channel | Freq (MHz) | Modulation | RB | OBW (MHz) | 26dB BW (MHz) |
|------|-----------------|---------|------------|------------|------|-----------|---------------|
| 17 | 10.0 | 23780 | 709.0 | QPSK | 50@0 | 8.9535 | 9.687 |
| 17 | 10.0 | 23780 | 709.0 | 16QAM | 50@0 | 8.9505 | 9.696 |
| 17 | 10.0 | 23790 | 710.0 | QPSK | 50@0 | 8.9509 | 9.800 |
| 17 | 10.0 | 23790 | 710.0 | 16QAM | 50@0 | 8.9455 | 9.619 |
| 17 | 10.0 | 23800 | 711.0 | QPSK | 50@0 | 8.9484 | 9.758 |
| 17 | 10.0 | 23800 | 711.0 | 16QAM | 50@0 | 8.9150 | 9.669 |
| 17 | 5.0 | 23755 | 706.5 | QPSK | 25@0 | 4.4620 | 4.969 |
| 17 | 5.0 | 23755 | 706.5 | 16QAM | 25@0 | 4.4696 | 4.996 |
| 17 | 5.0 | 23790 | 710.0 | QPSK | 25@0 | 4.4668 | 5.000 |
| 17 | 5.0 | 23790 | 710.0 | 16QAM | 25@0 | 4.4658 | 4.983 |
| 17 | 5.0 | 23825 | 713.5 | QPSK | 25@0 | 4.4603 | 4.910 |
| 17 | 5.0 | 23825 | 713.5 | 16QAM | 25@0 | 4.4751 | 4.918 |

Test Graphs

B17_10M_QPSK_50@0_CH_23780



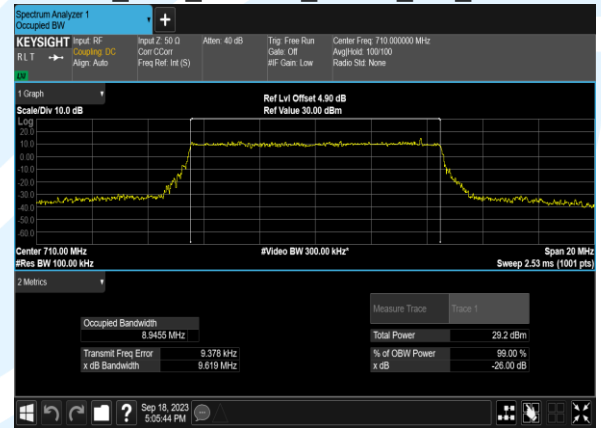
B17_10M_16QAM_50@0_CH_23780



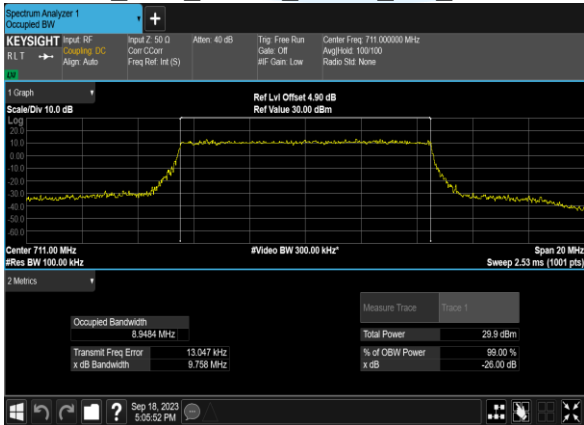
B17_10M_QPSK_50@0_CH_23790



B17_10M_16QAM_50@0_CH_23790



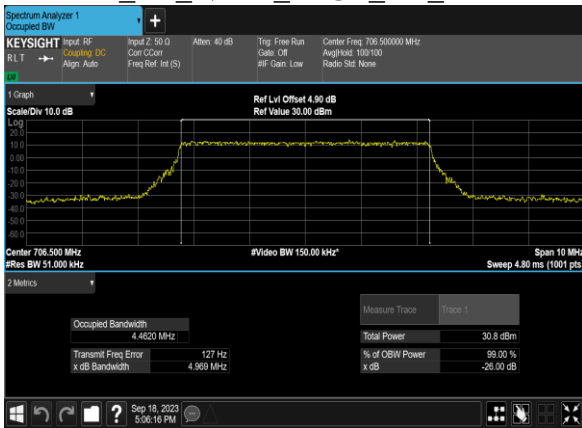
B17_10M_QPSK_50@0_CH_23800



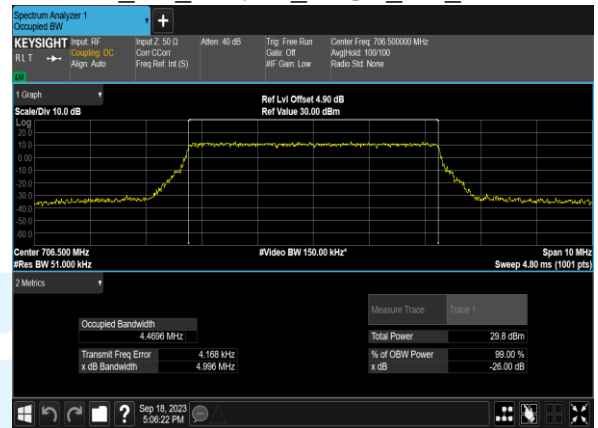
B17_10M_16QAM_50@0_CH_23800



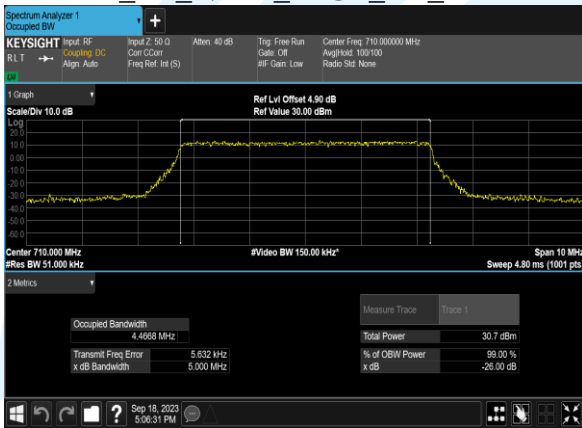
B17_5M_QPSK_25@0_CH_23755



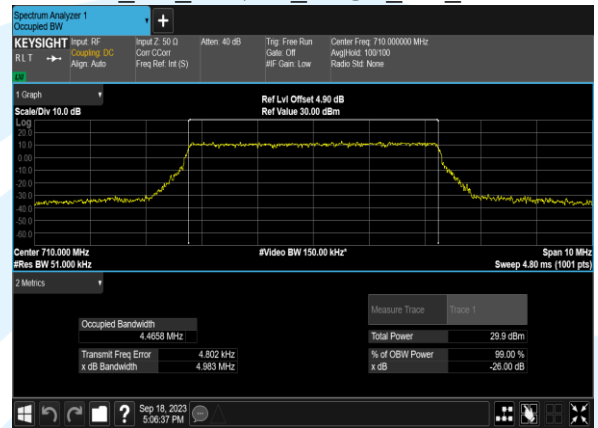
B17_5M_16QAM_25@0_CH_23755



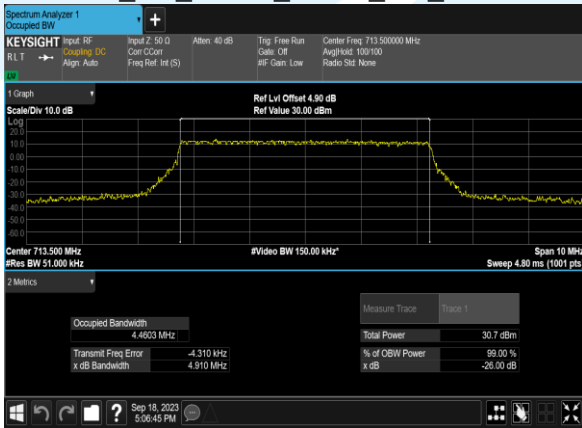
B17_5M_QPSK_25@0_CH_23790



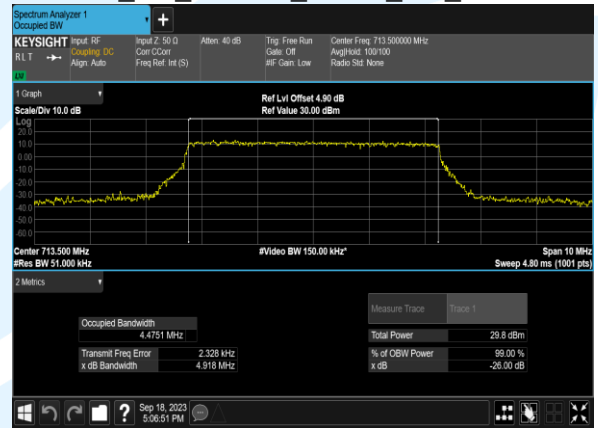
B17_5M_16QAM_25@0_CH_23790



B17_5M_QPSK_25@0_CH_23825



B17_5M_16QAM_25@0_CH_23825



Conducted Spurious Emissions

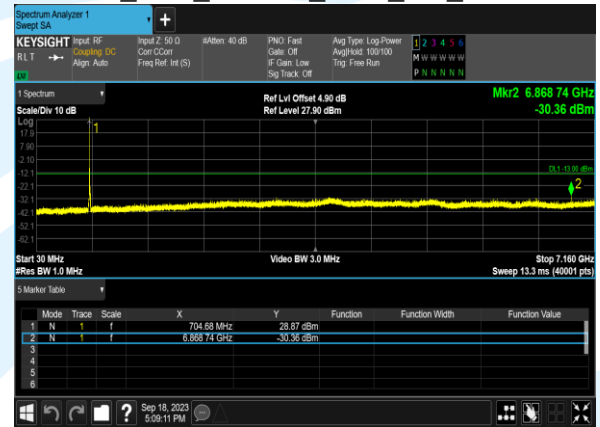
| Band | Bandwidth (MHz) | Channel | Freq (MHz) | Modulation | RB | Result (dBm) | Limit (dBm) | Verdict |
|------|-----------------|---------|------------|------------|-----|--------------|-------------|---------|
| 17 | 10.0 | 23780 | 709.0 | QPSK | 1@0 | -31.03 | -13 | PASS |
| 17 | 10.0 | 23780 | 709.0 | 16QAM | 1@0 | -30.36 | -13 | PASS |
| 17 | 10.0 | 23790 | 710.0 | QPSK | 1@0 | -30.13 | -13 | PASS |
| 17 | 10.0 | 23790 | 710.0 | 16QAM | 1@0 | -30.91 | -13 | PASS |
| 17 | 10.0 | 23800 | 711.0 | QPSK | 1@0 | -30.85 | -13 | PASS |
| 17 | 10.0 | 23800 | 711.0 | 16QAM | 1@0 | -31.08 | -13 | PASS |
| 17 | 5.0 | 23755 | 706.5 | QPSK | 1@0 | -31.13 | -13 | PASS |
| 17 | 5.0 | 23755 | 706.5 | 16QAM | 1@0 | -30.5 | -13 | PASS |
| 17 | 5.0 | 23790 | 710.0 | QPSK | 1@0 | -30.6 | -13 | PASS |
| 17 | 5.0 | 23790 | 710.0 | 16QAM | 1@0 | -29.73 | -13 | PASS |
| 17 | 5.0 | 23825 | 713.5 | QPSK | 1@0 | -30.89 | -13 | PASS |
| 17 | 5.0 | 23825 | 713.5 | 16QAM | 1@0 | -31.36 | -13 | PASS |

Test Graphs

B17_10M_QPSK_1@0_CH_23780



B17_10M_16QAM_1@0_CH_23780



B17_10M_QPSK_1@0_CH_23790



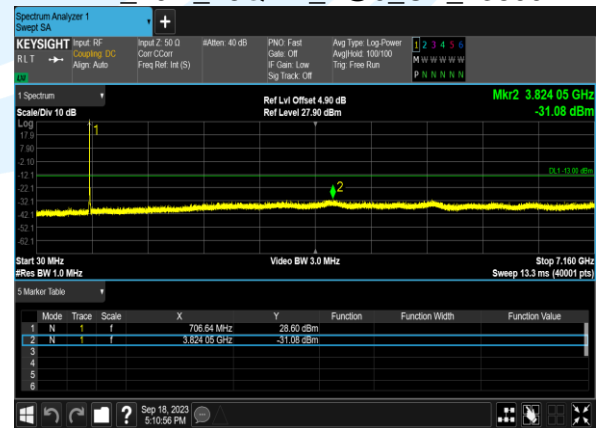
B17_10M_16QAM_1@0_CH_23790



B17_10M_QPSK_1@0_CH_23800



B17_10M_16QAM_1@0_CH_23800



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Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

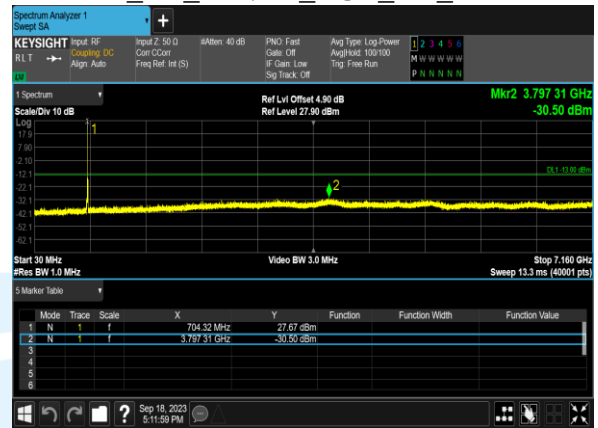
<http://www.uttlab.com>

UTTR-RF-FCC4G-V1.1

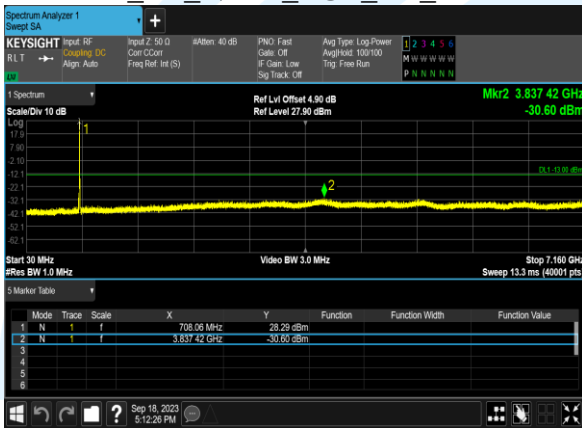
B17_5M_QPSK_1@0_CH_23755



B17_5M_16QAM_1@0_CH_23755



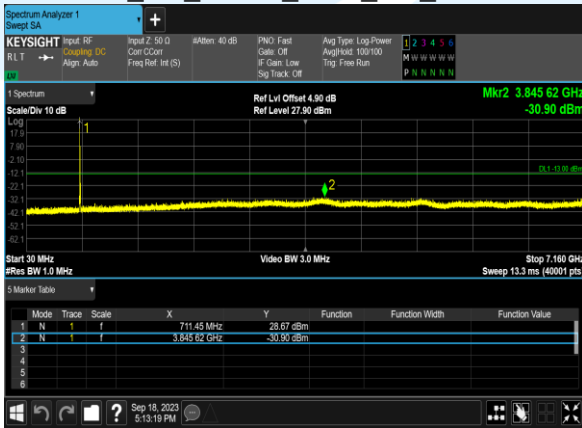
B17_5M_QPSK_1@0_CH_23790



B17_5M_16QAM_1@0_CH_23790



B17_5M_QPSK_1@0_CH_23825



B17_5M_16QAM_1@0_CH_23825

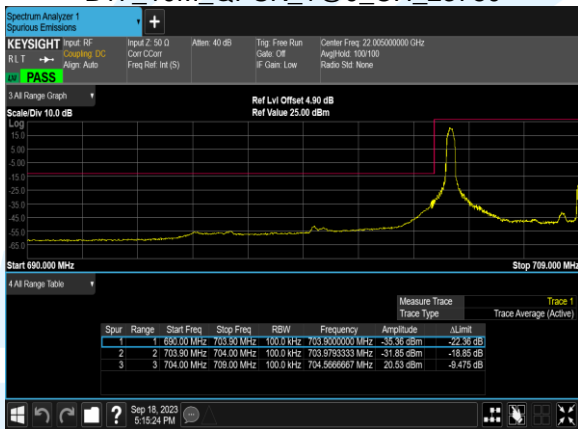


Conducted Band Edge

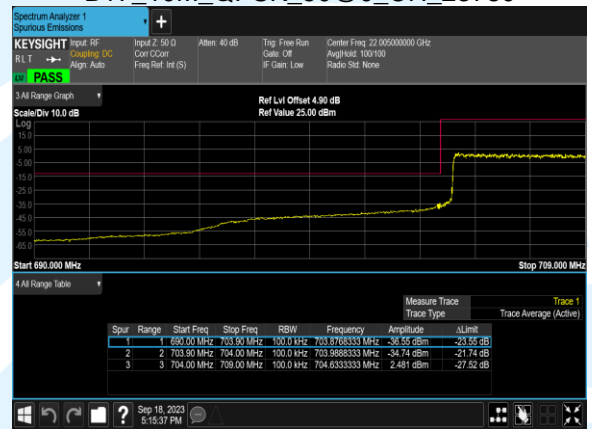
| Band | Bandwidth (MHz) | Channel | Freq (MHz) | Modulation | RB | Result | Verdict |
|------|-----------------|---------|------------|------------|------|-----------|---------|
| 17 | 10.0 | 23780 | 709.0 | QPSK | 1@0 | see graph | PASS |
| 17 | 10.0 | 23780 | 709.0 | QPSK | 50@0 | see graph | PASS |
| 17 | 10.0 | 23780 | 709.0 | 16QAM | 1@0 | see graph | PASS |
| 17 | 10.0 | 23780 | 709.0 | 16QAM | 50@0 | see graph | PASS |
| 17 | 10.0 | 23800 | 711.0 | QPSK | 1@49 | see graph | PASS |
| 17 | 10.0 | 23800 | 711.0 | QPSK | 50@0 | see graph | PASS |
| 17 | 10.0 | 23800 | 711.0 | 16QAM | 1@49 | see graph | PASS |
| 17 | 10.0 | 23800 | 711.0 | 16QAM | 50@0 | see graph | PASS |
| 17 | 5.0 | 23755 | 706.5 | QPSK | 1@0 | see graph | PASS |
| 17 | 5.0 | 23755 | 706.5 | QPSK | 25@0 | see graph | PASS |
| 17 | 5.0 | 23755 | 706.5 | 16QAM | 1@0 | see graph | PASS |
| 17 | 5.0 | 23755 | 706.5 | 16QAM | 25@0 | see graph | PASS |
| 17 | 5.0 | 23825 | 713.5 | QPSK | 1@24 | see graph | PASS |
| 17 | 5.0 | 23825 | 713.5 | QPSK | 25@0 | see graph | PASS |
| 17 | 5.0 | 23825 | 713.5 | 16QAM | 1@24 | see graph | PASS |
| 17 | 5.0 | 23825 | 713.5 | 16QAM | 25@0 | see graph | PASS |

Test Graphs

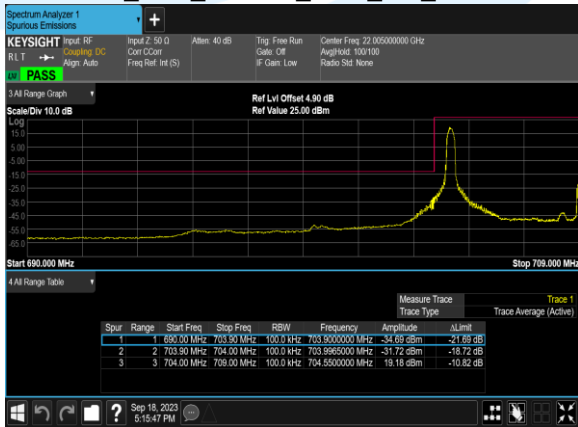
B17_10M_QPSK_1@0_CH_23780



B17_10M_QPSK_50@0_CH_23780



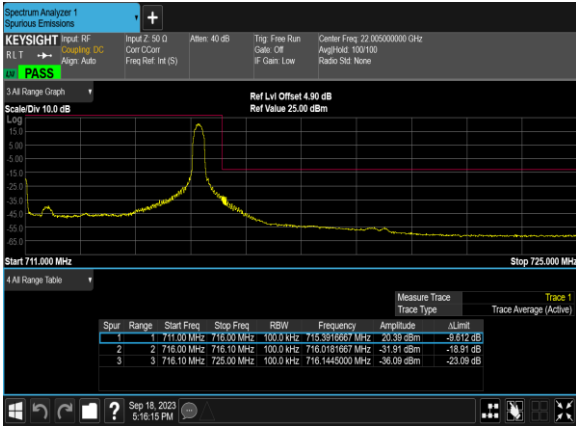
B17_10M_16QAM_1@0_CH_23780



B17_10M_16QAM_50@0_CH_23780



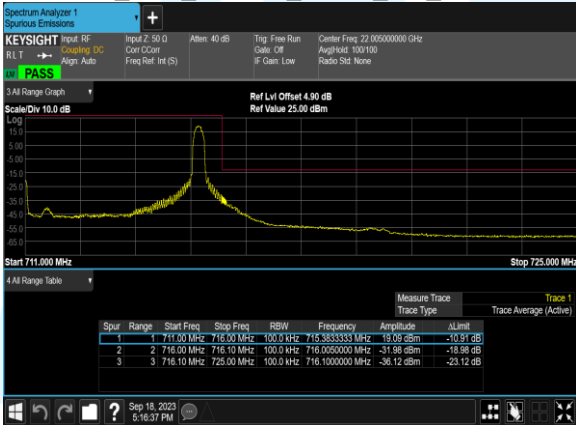
B17_10M_QPSK_1@49_CH_23800



B17_10M_QPSK_50@0_CH_23800



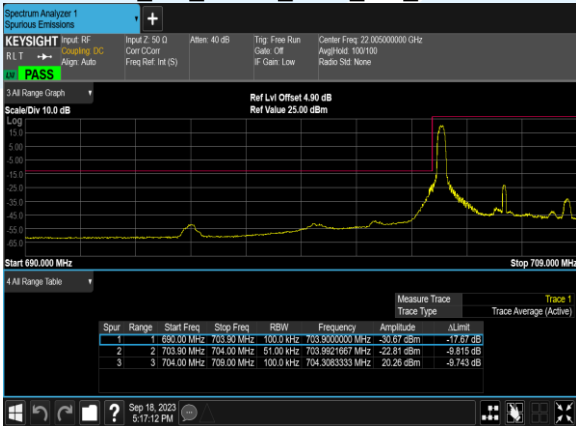
B17_10M_16QAM_1@49_CH_23800



B17_10M_16QAM_50@0_CH_23800



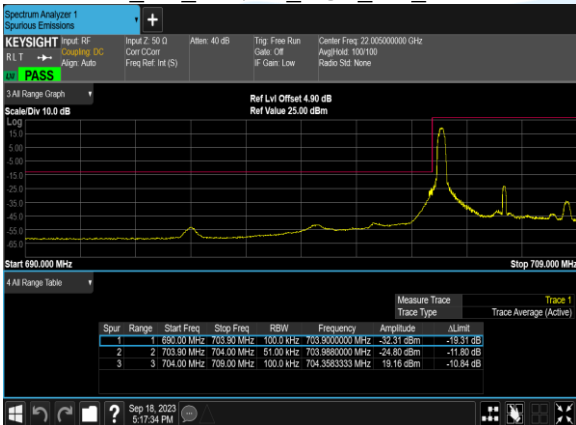
B17_5M_QPSK_1@0_CH_23755



B17_5M_QPSK_25@0_CH_23755



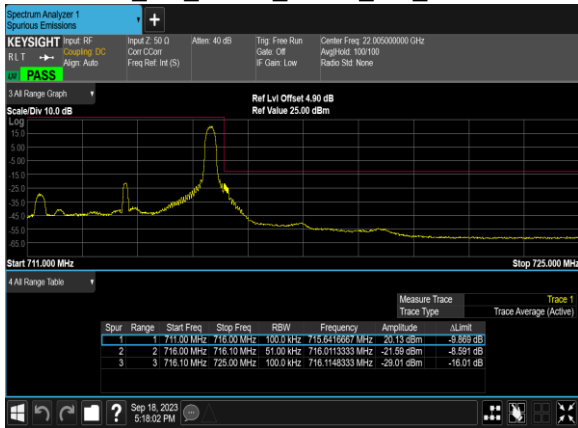
B17_5M_16QAM_1@0_CH_23755



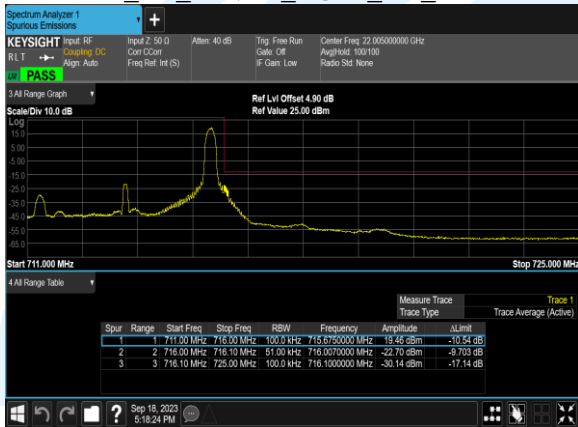
B17_5M_16QAM_25@0_CH_23755



B17_5M_QPSK_1@24_CH_23825



B17_5M_16QAM_1@24_CH_23825



B17_5M_QPSK_25@0_CH_23825



B17_5M_16QAM_25@0_CH_23825

