

Fig.5

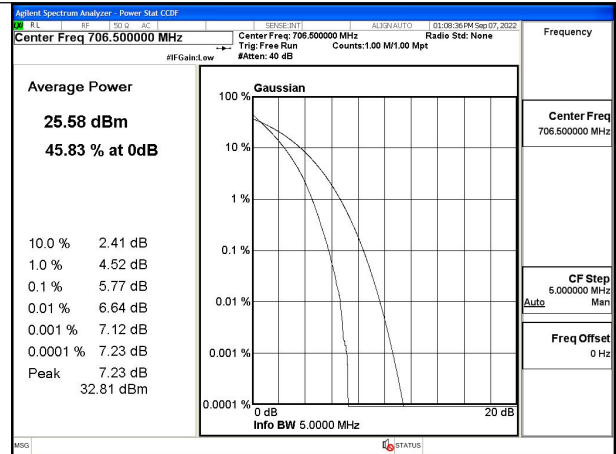


Fig.6

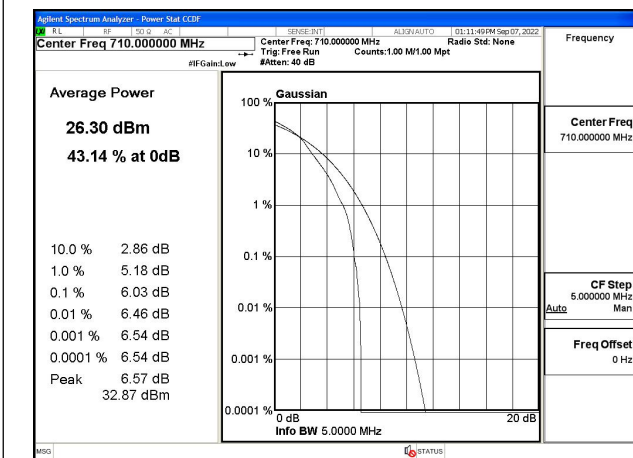


Fig.7

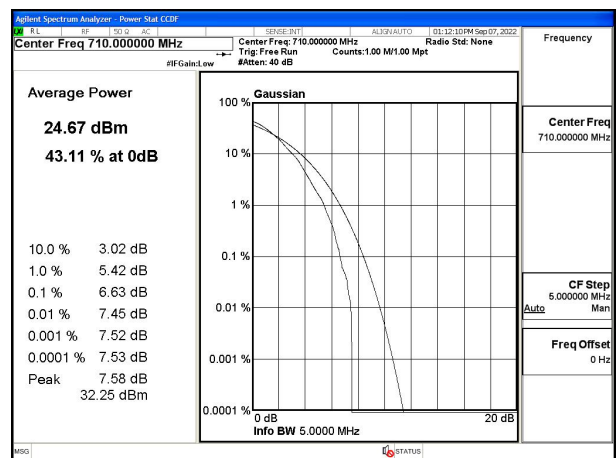


Fig.8

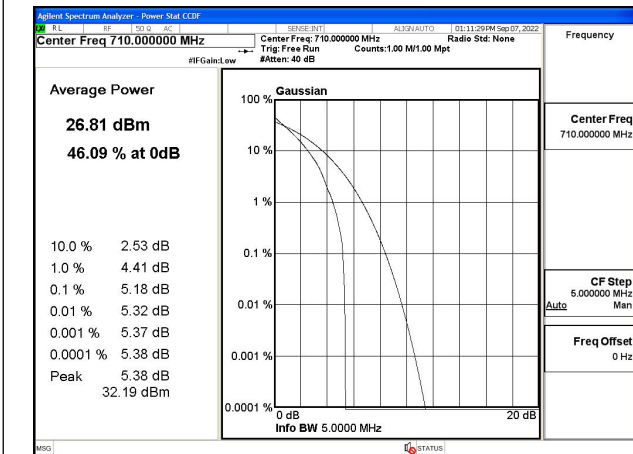


Fig.9

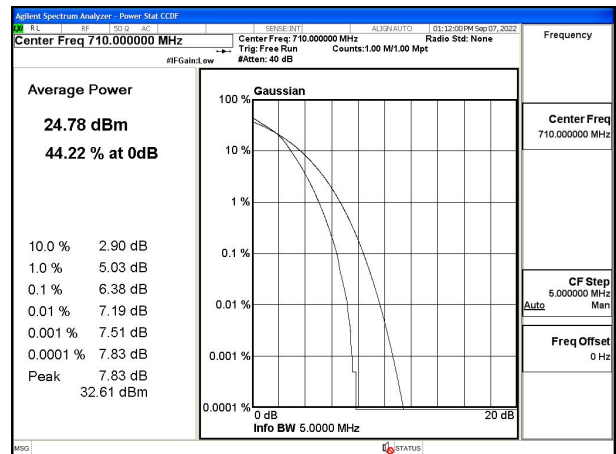


Fig.10

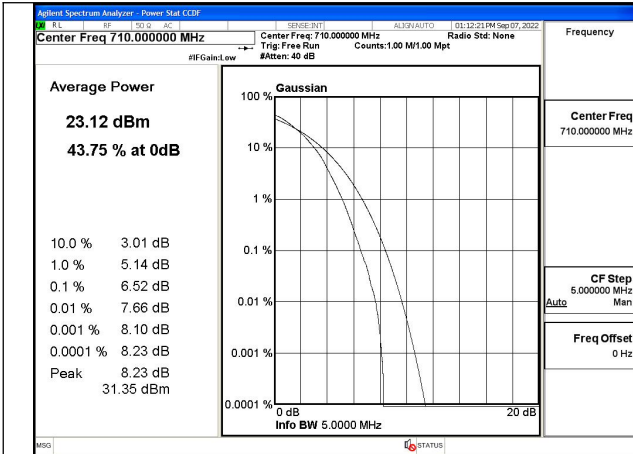


Fig. 11

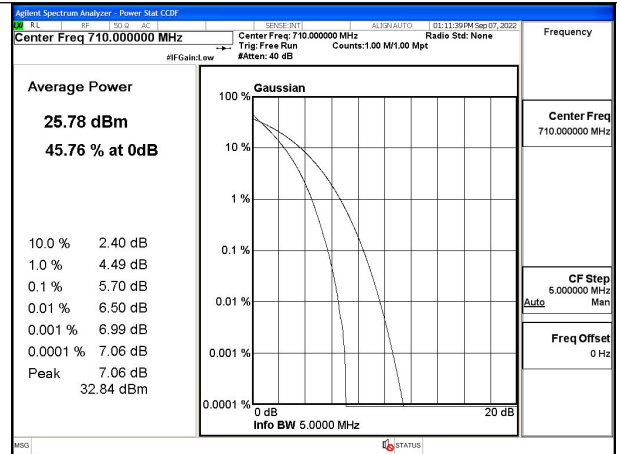


Fig. 12

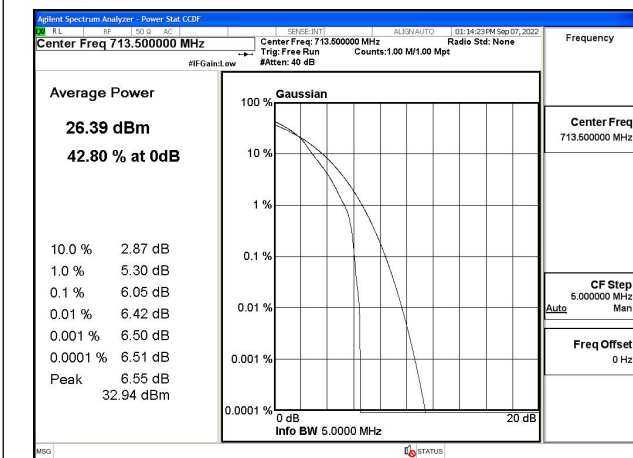


Fig. 13

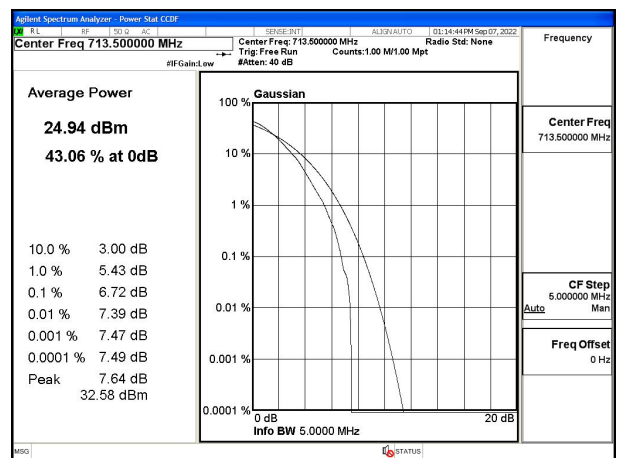


Fig. 14

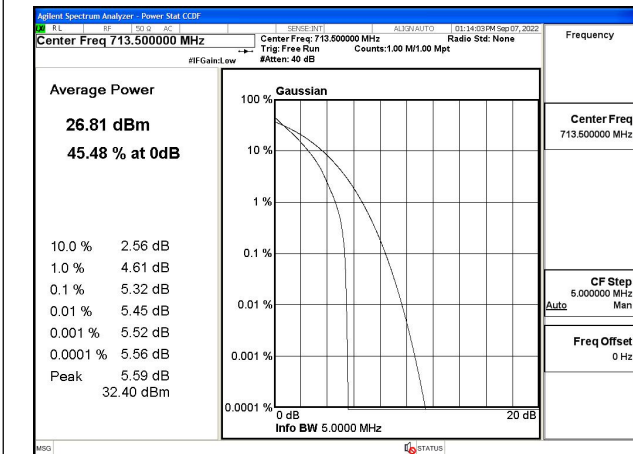


Fig. 15

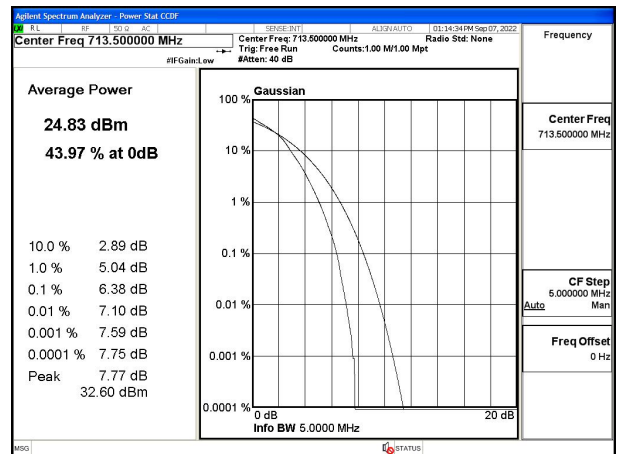


Fig. 16

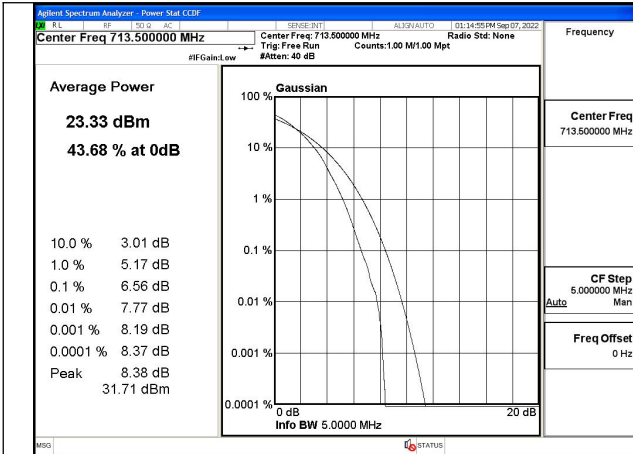


Fig.17

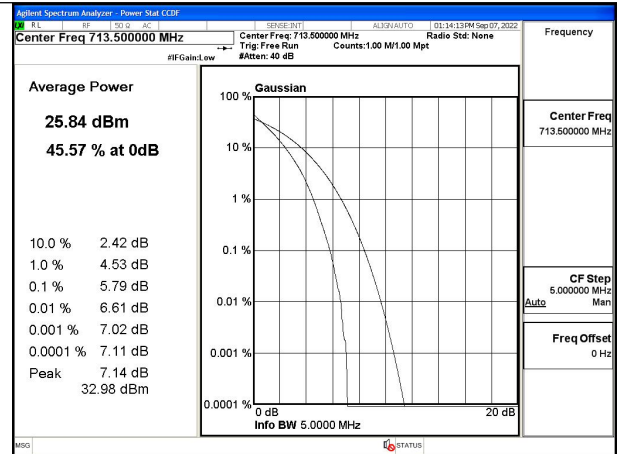


Fig.18

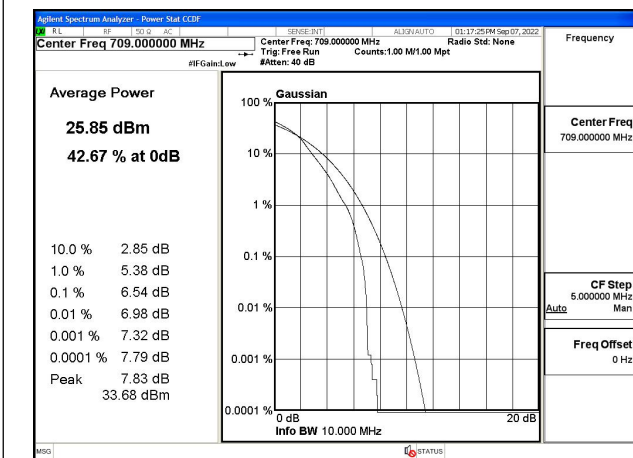


Fig.19

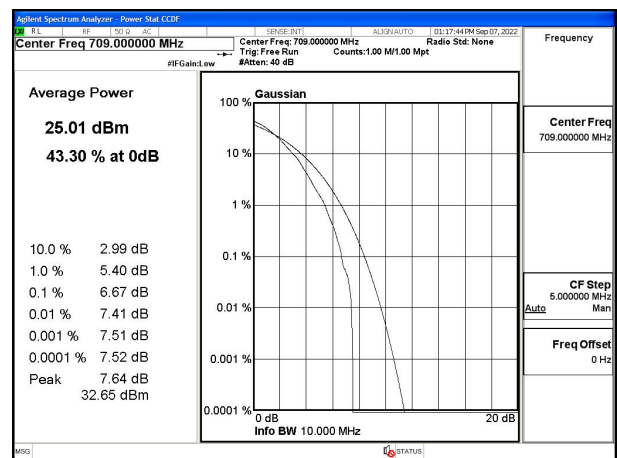


Fig.20

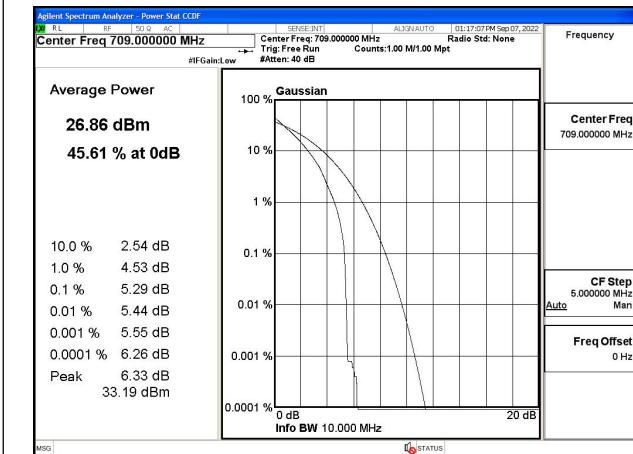


Fig.21

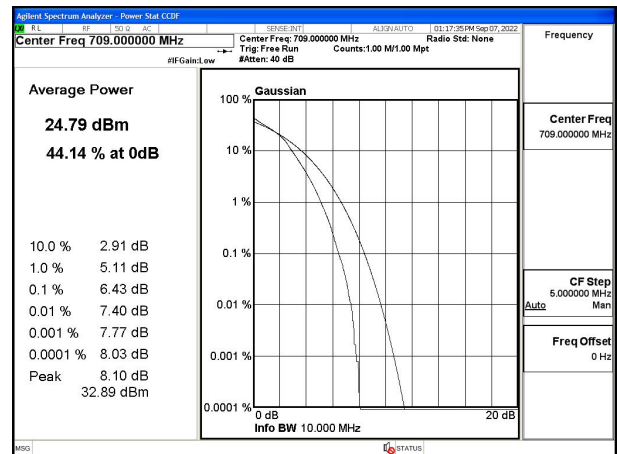


Fig.22

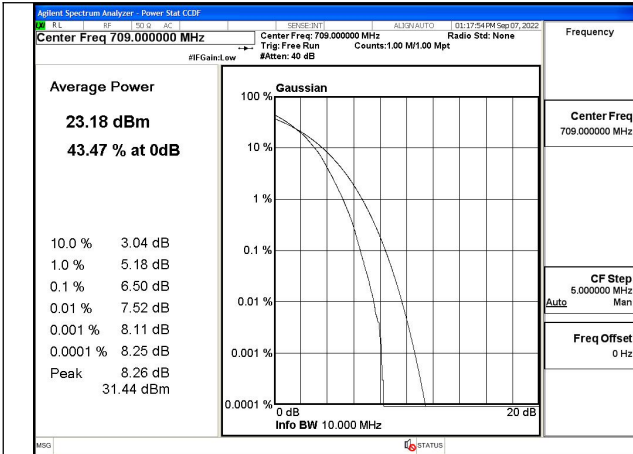


Fig.23

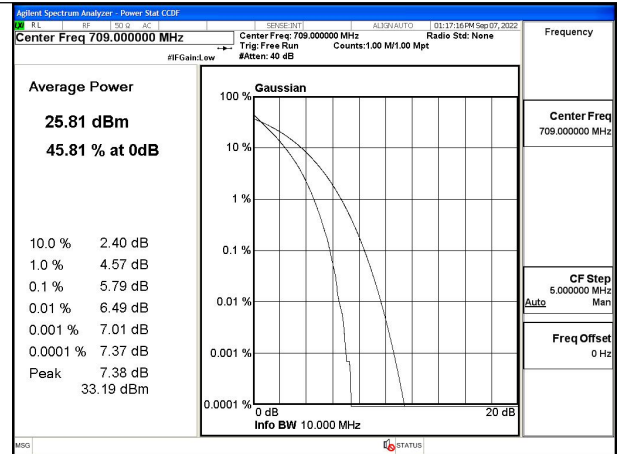


Fig.24

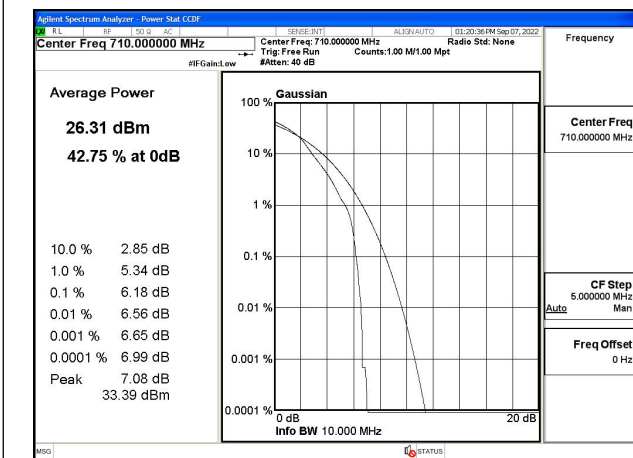


Fig.25

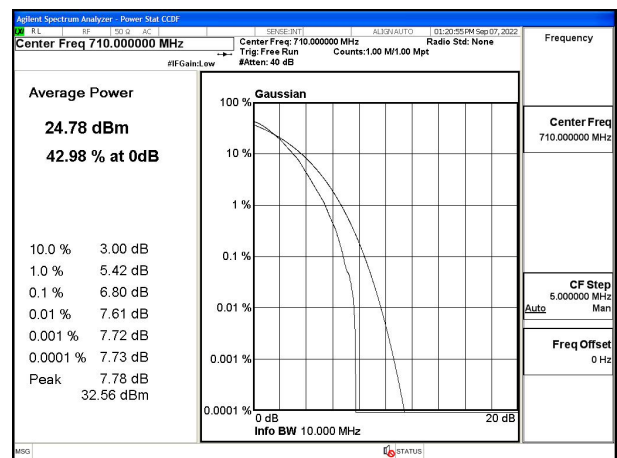


Fig.26

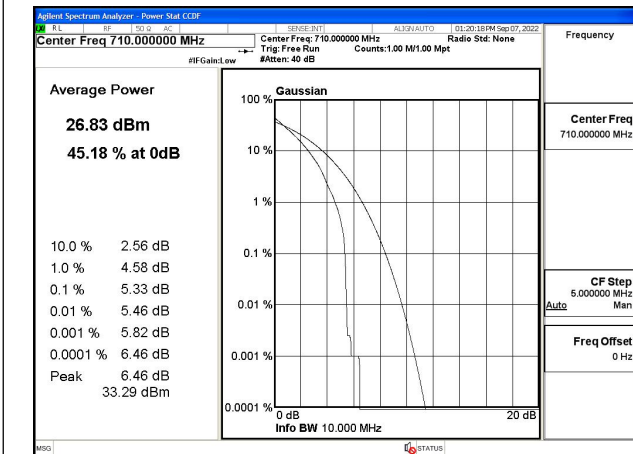


Fig.27

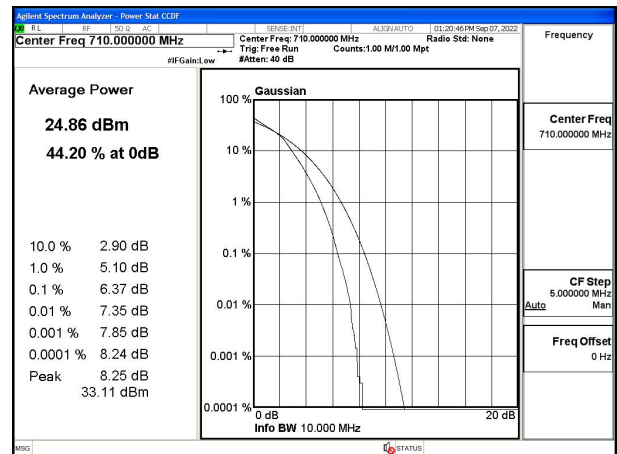


Fig.28

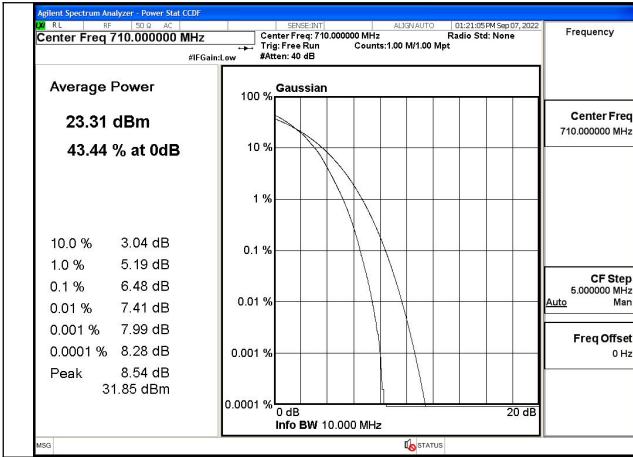


Fig.29

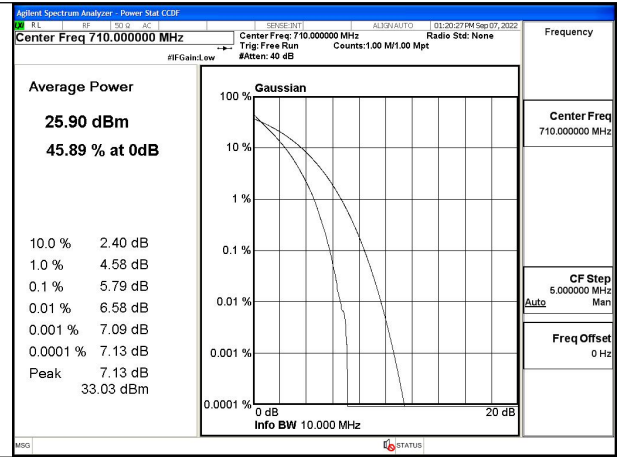


Fig.30

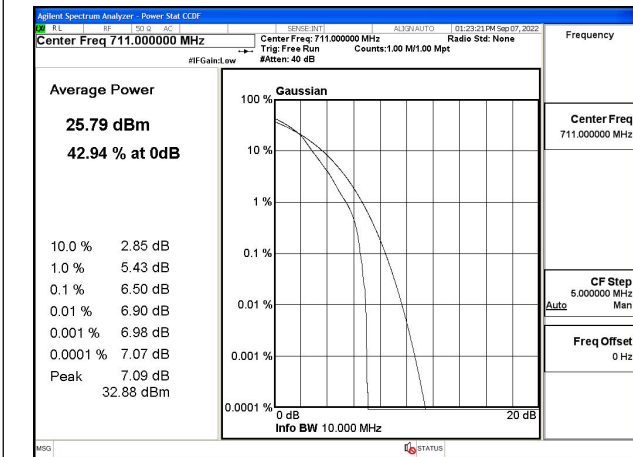


Fig.31

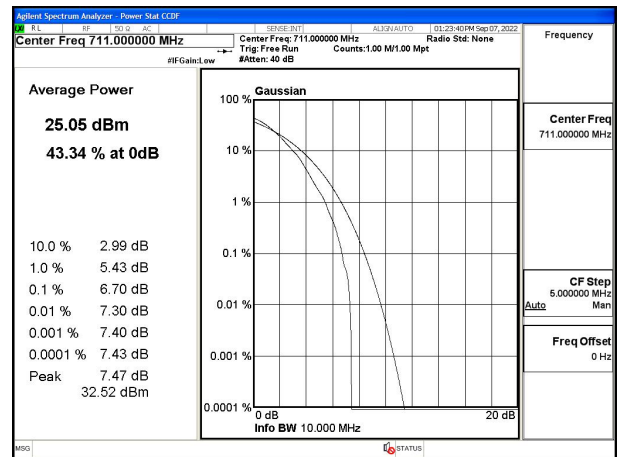


Fig.32

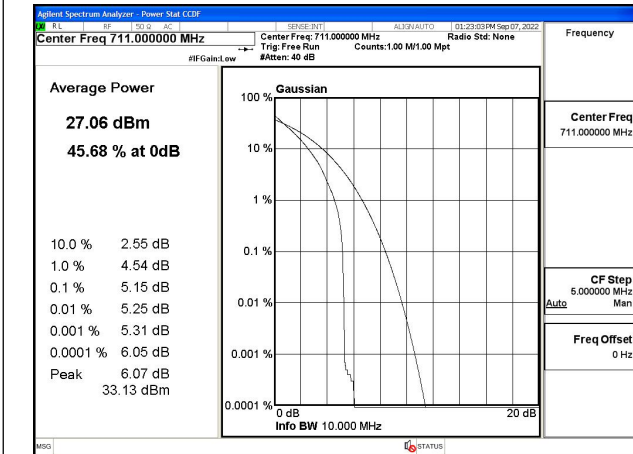


Fig.33

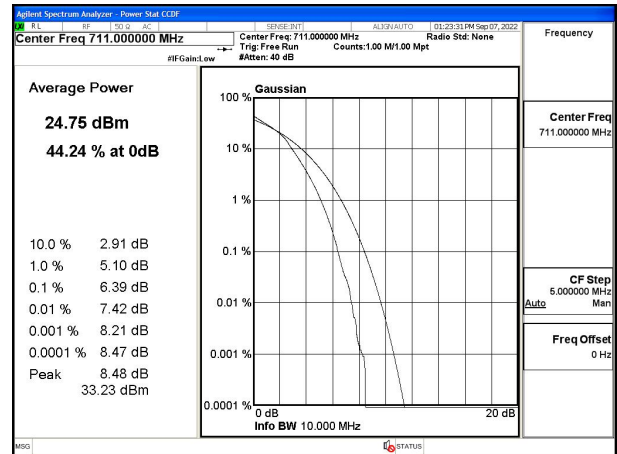


Fig.34

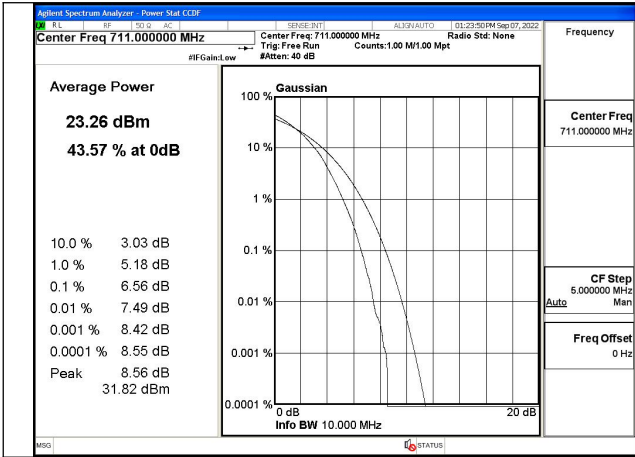


Fig.35

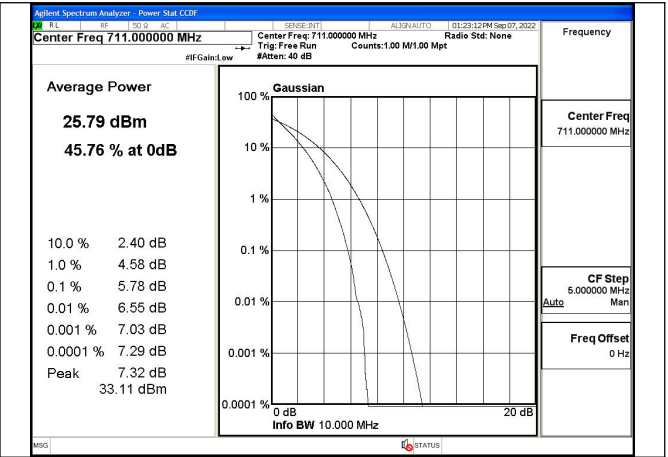


Fig.36

5 Spurious Emissions at antenna terminal

| Band | Carrier frequency (MHz) | Channel | BW | RB Size | RB Offset | Conducted Spurious Plot |
|------|-------------------------|---------|----|---------|-----------|-------------------------|
| | | | | | | QPSK |
| 17 | 709 | 23780 | 10 | 1 | 0 | Fig.1 |
| 17 | 710 | 23790 | 10 | 1 | 0 | Fig.2 |
| 17 | 711 | 23800 | 10 | 1 | 0 | Fig.3 |

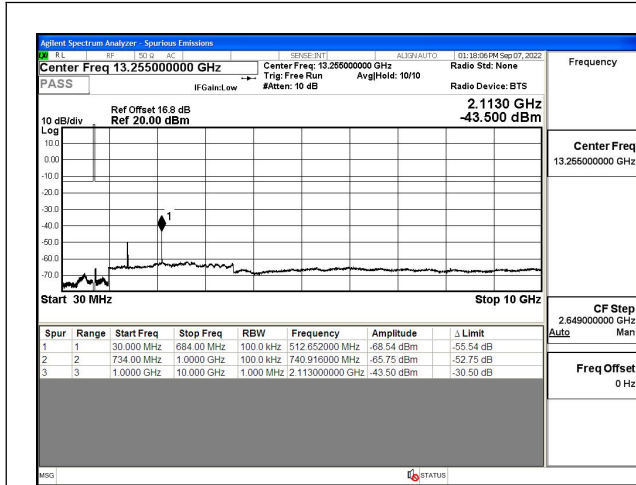


Fig.1



Fig.2

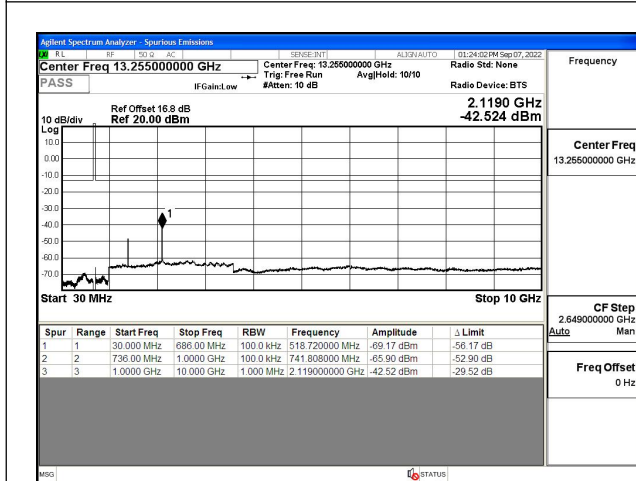
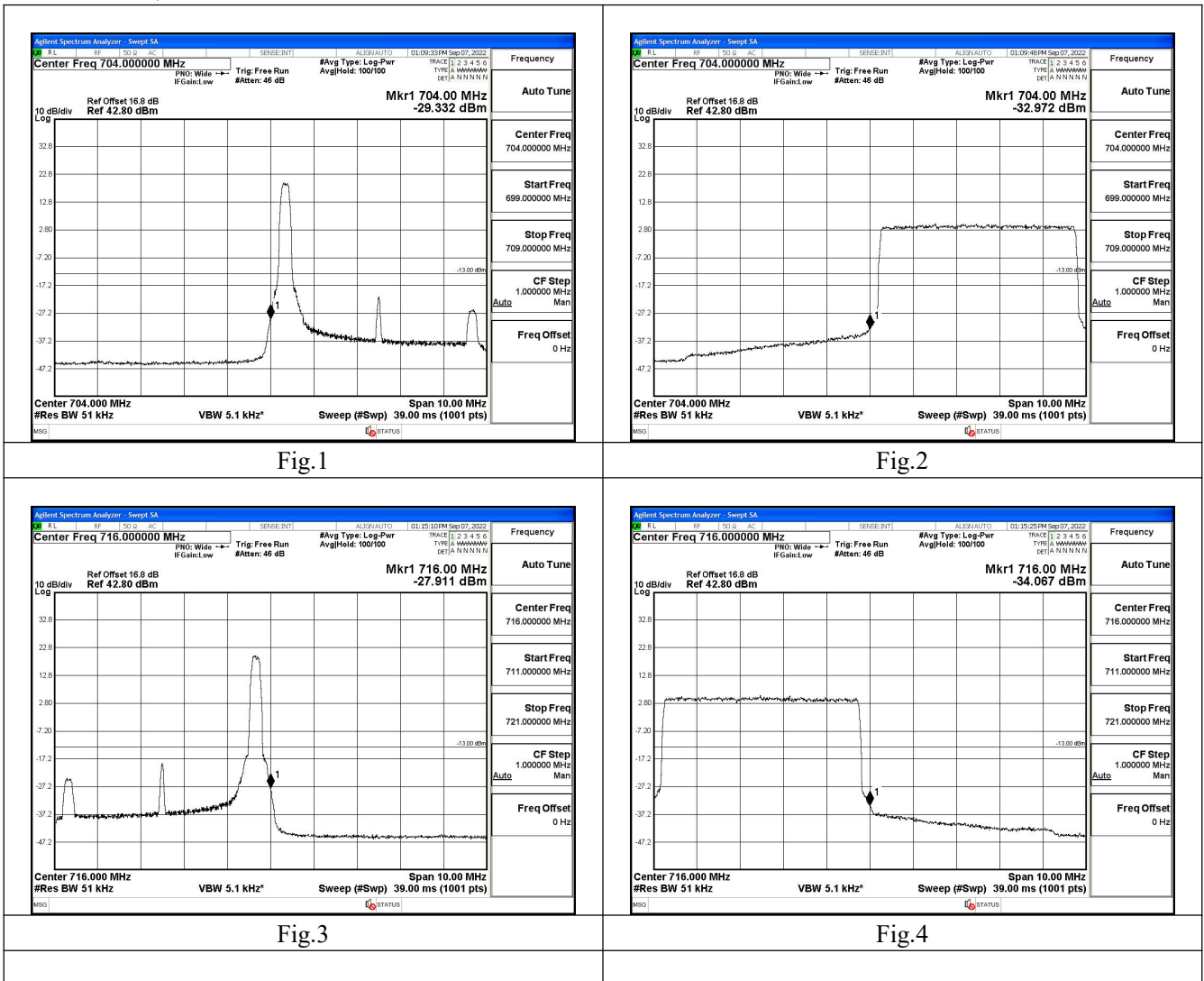


Fig.3

6 Band Edges Compliance

| Band | Mode | Carrier frequency (MHz) | Channel | BW | RB Size | RB Offset | Band Edges Plot |
|------|------|-------------------------|---------|----|---------|-----------|-----------------|
| 17 | QPSK | 706.5 | 23755 | 5 | 1 | 0 | Fig.1 |
| 17 | QPSK | 706.5 | 23755 | 5 | 25 | 0 | Fig.2 |
| 17 | QPSK | 713.5 | 23825 | 5 | 1 | 24 | Fig.3 |
| 17 | QPSK | 713.5 | 23825 | 5 | 25 | 0 | Fig.4 |
| 17 | QPSK | 709 | 23780 | 10 | 1 | 0 | Fig.5 |
| 17 | QPSK | 709 | 23780 | 10 | 50 | 0 | Fig.6 |
| 17 | QPSK | 711 | 23800 | 10 | 1 | 49 | Fig.7 |
| 17 | QPSK | 711 | 23800 | 10 | 50 | 0 | Fig.8 |

Test Mode: QPSK



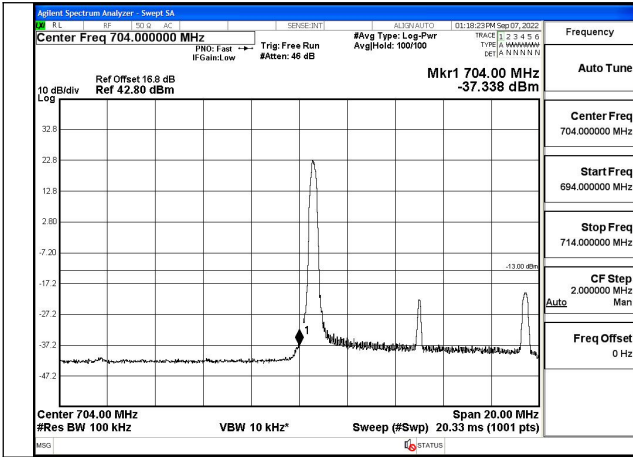


Fig.5

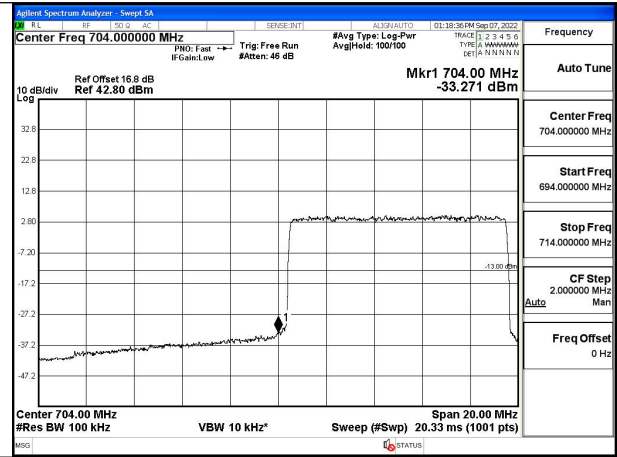


Fig.6

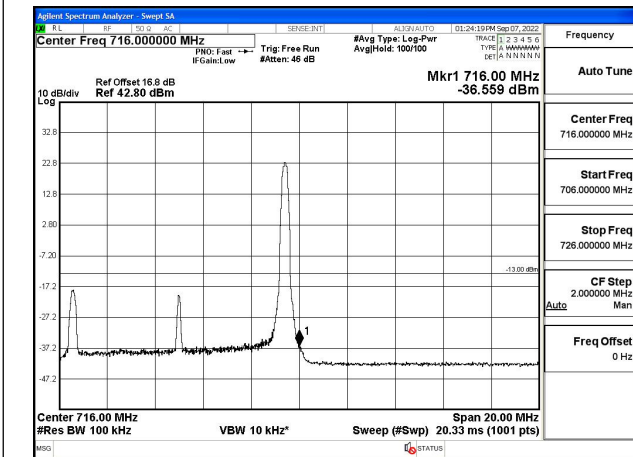


Fig.7

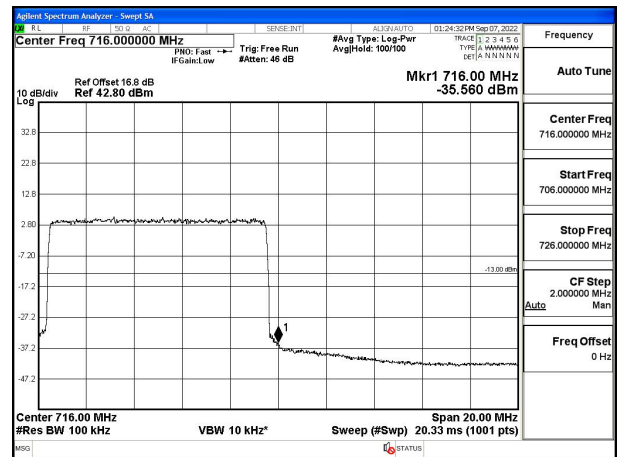


Fig.8

7 Frequency Stability

| Temperature(°C) | Voltage | Test Result (ppm) Band 17 Low Channel QPSK | |
|-----------------|---------|--|--------|
| | | 5M | 10M |
| -10 | NV | 0.003 | 0.008 |
| 0 | NV | 0.012 | -0.007 |
| +10 | NV | 0.005 | 0.003 |
| +20 | NV | 0.005 | 0.001 |
| +30 | NV | -0.004 | 0.005 |
| +40 | NV | 0.000 | 0.007 |
| +50 | NV | 0.004 | 0.011 |
| +55 | NV | 0.008 | 0.005 |
| +20 | LV | 0.016 | 0.004 |
| +20 | HV | 0.001 | 0.018 |

| Temperature(°C) | Voltage | Test Result (ppm) Band 17 High Channel QPSK | |
|-----------------|---------|---|--------|
| | | 5M | 10M |
| -10 | NV | -0.003 | -0.008 |
| 0 | NV | -0.008 | 0.003 |
| +10 | NV | -0.009 | -0.013 |
| +20 | NV | -0.003 | 0.003 |
| +30 | NV | -0.005 | 0.007 |
| +40 | NV | -0.009 | -0.001 |
| +50 | NV | -0.009 | -0.009 |
| +55 | NV | -0.004 | -0.008 |
| +20 | LV | 0.011 | -0.006 |
| +20 | HV | 0.001 | -0.014 |

8 Effective Radiated Power and Effective Isotropic Radiated Power

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) | ERP/ EIRP (dBm) | ERP/ EIRP (W) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|-----------------|---------------|
| QPSK | 706.5 | 23755 | 5 | 1 | 0 | 25.93 | 19.88 | 0.097 |
| QPSK | 706.5 | 23755 | 5 | 1 | 12 | 26.30 | 20.25 | 0.106 |
| QPSK | 706.5 | 23755 | 5 | 1 | 24 | 26.38 | 20.33 | 0.108 |
| QPSK | 706.5 | 23755 | 5 | 12 | 0 | 25.44 | 19.39 | 0.087 |
| QPSK | 706.5 | 23755 | 5 | 12 | 7 | 25.40 | 19.35 | 0.086 |
| QPSK | 706.5 | 23755 | 5 | 12 | 13 | 25.68 | 19.63 | 0.092 |
| QPSK | 706.5 | 23755 | 5 | 25 | 0 | 25.39 | 19.34 | 0.086 |
| QPSK | 710 | 23790 | 5 | 1 | 0 | 26.59 | 20.54 | 0.113 |
| QPSK | 710 | 23790 | 5 | 1 | 12 | 26.51 | 20.46 | 0.111 |
| QPSK | 710 | 23790 | 5 | 1 | 24 | 26.62 | 20.57 | 0.114 |
| QPSK | 710 | 23790 | 5 | 12 | 0 | 25.83 | 19.78 | 0.095 |
| QPSK | 710 | 23790 | 5 | 12 | 7 | 25.70 | 19.65 | 0.092 |
| QPSK | 710 | 23790 | 5 | 12 | 13 | 25.47 | 19.42 | 0.087 |
| QPSK | 710 | 23790 | 5 | 25 | 0 | 25.65 | 19.60 | 0.091 |
| QPSK | 713.5 | 23825 | 5 | 1 | 0 | 27.12 | 21.07 | 0.128 |
| QPSK | 713.5 | 23825 | 5 | 1 | 12 | 26.97 | 20.92 | 0.124 |
| QPSK | 713.5 | 23825 | 5 | 1 | 24 | 26.86 | 20.81 | 0.121 |
| QPSK | 713.5 | 23825 | 5 | 12 | 0 | 25.67 | 19.62 | 0.092 |
| QPSK | 713.5 | 23825 | 5 | 12 | 7 | 25.74 | 19.69 | 0.093 |
| QPSK | 713.5 | 23825 | 5 | 12 | 13 | 25.69 | 19.64 | 0.092 |
| QPSK | 713.5 | 23825 | 5 | 25 | 0 | 25.59 | 19.54 | 0.090 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) | ERP/ EIRP (dBm) | ERP/ EIRP (W) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|-----------------|---------------|
| 16QAM | 706.5 | 23755 | 5 | 1 | 0 | 25.58 | 19.53 | 0.090 |
| 16QAM | 706.5 | 23755 | 5 | 1 | 12 | 25.45 | 19.40 | 0.087 |
| 16QAM | 706.5 | 23755 | 5 | 1 | 24 | 25.37 | 19.32 | 0.086 |
| 16QAM | 706.5 | 23755 | 5 | 12 | 0 | 24.42 | 18.37 | 0.069 |
| 16QAM | 706.5 | 23755 | 5 | 12 | 7 | 24.38 | 18.33 | 0.068 |
| 16QAM | 706.5 | 23755 | 5 | 12 | 13 | 24.61 | 18.56 | 0.072 |
| 16QAM | 706.5 | 23755 | 5 | 25 | 0 | 24.60 | 18.55 | 0.072 |
| 16QAM | 710 | 23790 | 5 | 1 | 0 | 26.38 | 20.33 | 0.108 |
| 16QAM | 710 | 23790 | 5 | 1 | 12 | 26.00 | 19.95 | 0.099 |
| 16QAM | 710 | 23790 | 5 | 1 | 24 | 26.01 | 19.96 | 0.099 |
| 16QAM | 710 | 23790 | 5 | 12 | 0 | 24.61 | 18.56 | 0.072 |
| 16QAM | 710 | 23790 | 5 | 12 | 7 | 24.59 | 18.54 | 0.071 |
| 16QAM | 710 | 23790 | 5 | 12 | 13 | 24.73 | 18.68 | 0.074 |
| 16QAM | 710 | 23790 | 5 | 25 | 0 | 24.65 | 18.60 | 0.072 |
| 16QAM | 713.5 | 23825 | 5 | 1 | 0 | 25.55 | 19.50 | 0.089 |
| 16QAM | 713.5 | 23825 | 5 | 1 | 12 | 25.45 | 19.40 | 0.087 |
| 16QAM | 713.5 | 23825 | 5 | 1 | 24 | 25.67 | 19.62 | 0.092 |
| 16QAM | 713.5 | 23825 | 5 | 12 | 0 | 24.74 | 18.69 | 0.074 |
| 16QAM | 713.5 | 23825 | 5 | 12 | 7 | 24.60 | 18.55 | 0.072 |
| 16QAM | 713.5 | 23825 | 5 | 12 | 13 | 24.72 | 18.67 | 0.074 |
| 16QAM | 713.5 | 23825 | 5 | 25 | 0 | 24.94 | 18.89 | 0.077 |
| 64QAM | 706.5 | 23755 | 5 | 1 | 0 | 24.26 | 18.21 | 0.066 |
| 64QAM | 706.5 | 23755 | 5 | 1 | 12 | 24.92 | 18.87 | 0.077 |
| 64QAM | 706.5 | 23755 | 5 | 1 | 24 | 24.46 | 18.41 | 0.069 |
| 64QAM | 706.5 | 23755 | 5 | 12 | 0 | 22.91 | 16.86 | 0.049 |
| 64QAM | 706.5 | 23755 | 5 | 12 | 7 | 22.85 | 16.80 | 0.048 |
| 64QAM | 706.5 | 23755 | 5 | 12 | 13 | 22.96 | 16.91 | 0.049 |
| 64QAM | 706.5 | 23755 | 5 | 25 | 0 | 22.90 | 16.85 | 0.048 |
| 64QAM | 710 | 23790 | 5 | 1 | 0 | 24.77 | 18.72 | 0.074 |
| 64QAM | 710 | 23790 | 5 | 1 | 12 | 24.58 | 18.53 | 0.071 |
| 64QAM | 710 | 23790 | 5 | 1 | 24 | 24.63 | 18.58 | 0.072 |
| 64QAM | 710 | 23790 | 5 | 12 | 0 | 22.97 | 16.92 | 0.049 |
| 64QAM | 710 | 23790 | 5 | 12 | 7 | 23.13 | 17.08 | 0.051 |
| 64QAM | 710 | 23790 | 5 | 12 | 13 | 22.99 | 16.94 | 0.049 |
| 64QAM | 710 | 23790 | 5 | 25 | 0 | 23.05 | 17.00 | 0.050 |
| 64QAM | 713.5 | 23825 | 5 | 1 | 0 | 24.81 | 18.76 | 0.075 |
| 64QAM | 713.5 | 23825 | 5 | 1 | 12 | 25.10 | 19.05 | 0.080 |
| 64QAM | 713.5 | 23825 | 5 | 1 | 24 | 24.60 | 18.55 | 0.072 |
| 64QAM | 713.5 | 23825 | 5 | 12 | 0 | 23.13 | 17.08 | 0.051 |
| 64QAM | 713.5 | 23825 | 5 | 12 | 7 | 23.23 | 17.18 | 0.052 |
| 64QAM | 713.5 | 23825 | 5 | 12 | 13 | 23.12 | 17.07 | 0.051 |
| 64QAM | 713.5 | 23825 | 5 | 25 | 0 | 23.31 | 17.26 | 0.053 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) | ERP/ EIRP (dBm) | ERP/ EIRP (W) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|-----------------|---------------|
| QPSK | 709 | 23780 | 10 | 1 | 0 | 26.51 | 20.46 | 0.111 |
| QPSK | 709 | 23780 | 10 | 1 | 25 | 26.60 | 20.55 | 0.114 |
| QPSK | 709 | 23780 | 10 | 1 | 49 | 26.82 | 20.77 | 0.119 |
| QPSK | 709 | 23780 | 10 | 25 | 0 | 25.46 | 19.41 | 0.087 |
| QPSK | 709 | 23780 | 10 | 25 | 12 | 25.40 | 19.35 | 0.086 |
| QPSK | 709 | 23780 | 10 | 25 | 25 | 25.72 | 19.67 | 0.093 |
| QPSK | 709 | 23780 | 10 | 50 | 0 | 25.81 | 19.76 | 0.095 |
| QPSK | 710 | 23790 | 10 | 1 | 0 | 26.78 | 20.73 | 0.118 |
| QPSK | 710 | 23790 | 10 | 1 | 25 | 26.93 | 20.88 | 0.122 |
| QPSK | 710 | 23790 | 10 | 1 | 49 | 26.92 | 20.87 | 0.122 |
| QPSK | 710 | 23790 | 10 | 25 | 0 | 25.77 | 19.72 | 0.094 |
| QPSK | 710 | 23790 | 10 | 25 | 12 | 25.63 | 19.58 | 0.091 |
| QPSK | 710 | 23790 | 10 | 25 | 25 | 25.58 | 19.53 | 0.090 |
| QPSK | 710 | 23790 | 10 | 50 | 0 | 25.56 | 19.51 | 0.089 |
| QPSK | 711 | 23800 | 10 | 1 | 0 | 26.72 | 20.67 | 0.117 |
| QPSK | 711 | 23800 | 10 | 1 | 25 | 26.90 | 20.85 | 0.122 |
| QPSK | 711 | 23800 | 10 | 1 | 49 | 26.68 | 20.63 | 0.116 |
| QPSK | 711 | 23800 | 10 | 25 | 0 | 25.55 | 19.50 | 0.089 |
| QPSK | 711 | 23800 | 10 | 25 | 12 | 25.53 | 19.48 | 0.089 |
| QPSK | 711 | 23800 | 10 | 25 | 25 | 25.58 | 19.53 | 0.090 |
| QPSK | 711 | 23800 | 10 | 50 | 0 | 25.62 | 19.57 | 0.091 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) | ERP/ EIRP (dBm) | ERP/ EIRP (W) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|-----------------|---------------|
| 16QAM | 709 | 23780 | 10 | 1 | 0 | 25.37 | 19.32 | 0.086 |
| 16QAM | 709 | 23780 | 10 | 1 | 25 | 25.99 | 19.94 | 0.099 |
| 16QAM | 709 | 23780 | 10 | 1 | 49 | 25.86 | 19.81 | 0.096 |
| 16QAM | 709 | 23780 | 10 | 25 | 0 | 24.36 | 18.31 | 0.068 |
| 16QAM | 709 | 23780 | 10 | 25 | 12 | 24.56 | 18.51 | 0.071 |
| 16QAM | 709 | 23780 | 10 | 25 | 25 | 24.53 | 18.48 | 0.070 |
| 16QAM | 709 | 23780 | 10 | 50 | 0 | 24.75 | 18.70 | 0.074 |
| 16QAM | 710 | 23790 | 10 | 1 | 0 | 25.28 | 19.23 | 0.084 |
| 16QAM | 710 | 23790 | 10 | 1 | 25 | 26.13 | 20.08 | 0.102 |
| 16QAM | 710 | 23790 | 10 | 1 | 49 | 25.65 | 19.60 | 0.091 |
| 16QAM | 710 | 23790 | 10 | 25 | 0 | 24.81 | 18.76 | 0.075 |
| 16QAM | 710 | 23790 | 10 | 25 | 12 | 24.71 | 18.66 | 0.073 |
| 16QAM | 710 | 23790 | 10 | 25 | 25 | 24.77 | 18.72 | 0.074 |
| 16QAM | 710 | 23790 | 10 | 50 | 0 | 24.72 | 18.67 | 0.074 |
| 16QAM | 711 | 23800 | 10 | 1 | 0 | 25.37 | 19.32 | 0.086 |
| 16QAM | 711 | 23800 | 10 | 1 | 25 | 25.52 | 19.47 | 0.089 |
| 16QAM | 711 | 23800 | 10 | 1 | 49 | 25.48 | 19.43 | 0.088 |
| 16QAM | 711 | 23800 | 10 | 25 | 0 | 25.00 | 18.95 | 0.079 |
| 16QAM | 711 | 23800 | 10 | 25 | 12 | 24.93 | 18.88 | 0.077 |
| 16QAM | 711 | 23800 | 10 | 25 | 25 | 24.81 | 18.76 | 0.075 |
| 16QAM | 711 | 23800 | 10 | 50 | 0 | 24.80 | 18.75 | 0.075 |
| 64QAM | 709 | 23780 | 10 | 1 | 0 | 24.07 | 18.02 | 0.063 |
| 64QAM | 709 | 23780 | 10 | 1 | 25 | 24.42 | 18.37 | 0.069 |
| 64QAM | 709 | 23780 | 10 | 1 | 49 | 23.90 | 17.85 | 0.061 |
| 64QAM | 709 | 23780 | 10 | 25 | 0 | 22.65 | 16.60 | 0.046 |
| 64QAM | 709 | 23780 | 10 | 25 | 12 | 22.87 | 16.82 | 0.048 |
| 64QAM | 709 | 23780 | 10 | 25 | 25 | 23.13 | 17.08 | 0.051 |
| 64QAM | 709 | 23780 | 10 | 50 | 0 | 22.98 | 16.93 | 0.049 |
| 64QAM | 710 | 23790 | 10 | 1 | 0 | 24.25 | 18.20 | 0.066 |
| 64QAM | 710 | 23790 | 10 | 1 | 25 | 24.98 | 18.93 | 0.078 |
| 64QAM | 710 | 23790 | 10 | 1 | 49 | 25.01 | 18.96 | 0.079 |
| 64QAM | 710 | 23790 | 10 | 25 | 0 | 23.05 | 17.00 | 0.050 |
| 64QAM | 710 | 23790 | 10 | 25 | 12 | 23.11 | 17.06 | 0.051 |
| 64QAM | 710 | 23790 | 10 | 25 | 25 | 23.05 | 17.00 | 0.050 |
| 64QAM | 710 | 23790 | 10 | 50 | 0 | 23.09 | 17.04 | 0.051 |
| 64QAM | 711 | 23800 | 10 | 1 | 0 | 24.42 | 18.37 | 0.069 |
| 64QAM | 711 | 23800 | 10 | 1 | 25 | 24.58 | 18.53 | 0.071 |
| 64QAM | 711 | 23800 | 10 | 1 | 49 | 24.53 | 18.48 | 0.070 |
| 64QAM | 711 | 23800 | 10 | 25 | 0 | 22.96 | 16.91 | 0.049 |
| 64QAM | 711 | 23800 | 10 | 25 | 12 | 22.96 | 16.91 | 0.049 |
| 64QAM | 711 | 23800 | 10 | 25 | 25 | 23.01 | 16.96 | 0.050 |
| 64QAM | 711 | 23800 | 10 | 50 | 0 | 23.12 | 17.07 | 0.051 |