

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 4

1 RF Power Output

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|-----|---------|-----------|-----------------------|
| QPSK | 1710.7 | 19957 | 1.4 | 1 | 0 | 22.67 |
| | | | | 1 | 5 | 22.55 |
| | | | | 3 | 2 | 21.61 |
| | | | | 6 | 0 | 21.59 |
| | 1732.5 | 20175 | | 1 | 0 | 22.66 |
| | | | | 1 | 5 | 22.65 |
| | | | | 3 | 2 | 21.70 |
| | | | | 6 | 0 | 21.63 |
| | 1754.3 | 20393 | | 1 | 0 | 22.86 |
| | | | | 1 | 5 | 22.78 |
| | | | | 3 | 2 | 21.88 |
| | | | | 6 | 0 | 21.75 |
| 16QAM | 1710.7 | 19957 | 1.4 | 1 | 0 | 21.75 |
| | | | | 1 | 5 | 21.53 |
| | | | | 3 | 2 | 20.65 |
| | | | | 6 | 0 | 20.59 |
| | 1732.5 | 20175 | | 1 | 0 | 21.72 |
| | | | | 1 | 5 | 21.63 |
| | | | | 3 | 2 | 20.70 |
| | | | | 6 | 0 | 20.65 |
| | 1754.3 | 20393 | | 1 | 0 | 21.94 |
| | | | | 1 | 5 | 21.79 |
| | | | | 3 | 2 | 20.95 |
| | | | | 6 | 0 | 20.80 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| QPSK | 1711.5 | 19965 | 3 | 1 | 0 | 22.69 |
| | | | | 1 | 14 | 22.63 |
| | | | | 8 | 4 | 21.63 |
| | | | | 15 | 0 | 21.61 |
| | 1732.5 | 20175 | | 1 | 0 | 22.77 |
| | | | | 1 | 14 | 22.70 |
| | | | | 8 | 4 | 21.66 |
| | | | | 15 | 0 | 21.63 |
| | 1753.5 | 20385 | | 1 | 0 | 22.80 |
| | | | | 1 | 14 | 22.88 |
| | | | | 8 | 4 | 21.90 |
| | | | | 15 | 0 | 21.85 |
| 16QAM | 1711.5 | 19965 | 3 | 1 | 0 | 21.68 |
| | | | | 1 | 14 | 21.52 |
| | | | | 8 | 4 | 20.60 |
| | | | | 15 | 0 | 20.61 |
| | 1732.5 | 20175 | | 1 | 0 | 21.75 |
| | | | | 1 | 14 | 21.70 |
| | | | | 8 | 4 | 20.74 |
| | | | | 15 | 0 | 20.69 |
| | 1753.5 | 20385 | | 1 | 0 | 21.95 |
| | | | | 1 | 14 | 21.78 |
| | | | | 8 | 4 | 20.98 |
| | | | | 15 | 0 | 20.89 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| QPSK | 1712.5 | 19975 | 5 | 1 | 0 | 22.81 |
| | | | | 1 | 24 | 22.59 |
| | | | | 12 | 6 | 21.66 |
| | | | | 25 | 0 | 21.59 |
| | 1732.5 | 20175 | | 1 | 0 | 22.73 |
| | | | | 1 | 24 | 22.77 |
| | | | | 12 | 6 | 21.65 |
| | | | | 25 | 0 | 21.63 |
| | 1752.5 | 20375 | | 1 | 0 | 22.94 |
| | | | | 1 | 24 | 22.88 |
| | | | | 12 | 6 | 21.97 |
| | | | | 25 | 0 | 21.81 |
| 16QAM | 1712.5 | 19975 | 5 | 1 | 0 | 21.75 |
| | | | | 1 | 24 | 21.67 |
| | | | | 12 | 6 | 20.67 |
| | | | | 25 | 0 | 20.57 |
| | 1732.5 | 20175 | | 1 | 0 | 21.81 |
| | | | | 1 | 24 | 21.75 |
| | | | | 12 | 6 | 20.67 |
| | | | | 25 | 0 | 20.63 |
| | 1752.5 | 20375 | | 1 | 0 | 22.00 |
| | | | | 1 | 24 | 21.91 |
| | | | | 12 | 6 | 21.00 |
| | | | | 25 | 0 | 20.92 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| QPSK | 1715 | 20000 | 10 | 1 | 0 | 22.87 |
| | | | | 1 | 49 | 22.70 |
| | | | | 24 | 12 | 21.79 |
| | | | | 50 | 0 | 21.66 |
| | 1732.5 | 20175 | | 1 | 0 | 22.81 |
| | | | | 1 | 49 | 22.74 |
| | | | | 24 | 12 | 21.75 |
| | | | | 50 | 0 | 21.69 |
| | 1750 | 20350 | | 1 | 0 | 22.96 |
| | | | | 1 | 49 | 22.99 |
| | | | | 24 | 12 | 22.04 |
| | | | | 50 | 0 | 21.90 |
| 16QAM | 1715 | 20000 | 10 | 1 | 0 | 21.88 |
| | | | | 1 | 49 | 21.67 |
| | | | | 24 | 12 | 20.79 |
| | | | | 50 | 0 | 20.72 |
| | 1732.5 | 20175 | | 1 | 0 | 21.83 |
| | | | | 1 | 49 | 21.75 |
| | | | | 24 | 12 | 20.79 |
| | | | | 50 | 0 | 20.80 |
| | 1750 | 20350 | | 1 | 0 | 22.05 |
| | | | | 1 | 49 | 21.90 |
| | | | | 24 | 12 | 21.08 |
| | | | | 50 | 0 | 20.93 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| QPSK | 1717.5 | 20025 | 15 | 1 | 0 | 22.90 |
| | | | | 1 | 74 | 22.76 |
| | | | | 40 | 18 | 21.73 |
| | | | | 75 | 0 | 21.74 |
| | 1732.5 | 20175 | | 1 | 0 | 22.83 |
| | | | | 1 | 74 | 22.79 |
| | | | | 40 | 18 | 21.83 |
| | | | | 75 | 0 | 21.74 |
| | 1747.5 | 20325 | | 1 | 0 | 23.06 |
| | | | | 1 | 74 | 22.93 |
| | | | | 40 | 18 | 22.07 |
| | | | | 75 | 0 | 22.00 |
| 16QAM | 1717.5 | 20025 | 15 | 1 | 0 | 21.93 |
| | | | | 1 | 74 | 21.76 |
| | | | | 40 | 18 | 20.81 |
| | | | | 75 | 0 | 20.77 |
| | 1732.5 | 20175 | | 1 | 0 | 21.88 |
| | | | | 1 | 74 | 21.87 |
| | | | | 40 | 18 | 20.85 |
| | | | | 75 | 0 | 20.80 |
| | 1747.5 | 20325 | | 1 | 0 | 22.08 |
| | | | | 1 | 74 | 22.01 |
| | | | | 40 | 18 | 21.14 |
| | | | | 75 | 0 | 21.00 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| QPSK | 1720 | 20050 | 20 | 1 | 0 | 22.95 |
| | | | | 1 | 99 | 22.83 |
| | | | | 50 | 25 | 21.87 |
| | | | | 100 | 0 | 21.83 |
| | 1732.5 | 20175 | | 1 | 0 | 22.97 |
| | | | | 1 | 99 | 22.91 |
| | | | | 50 | 25 | 21.92 |
| | | | | 100 | 0 | 21.87 |
| | 1745 | 20300 | | 1 | 0 | 23.11 |
| | | | | 1 | 99 | 23.08 |
| | | | | 50 | 25 | 22.18 |
| | | | | 100 | 0 | 22.06 |
| 16QAM | 1720 | 20050 | 20 | 1 | 0 | 21.99 |
| | | | | 1 | 99 | 21.82 |
| | | | | 50 | 25 | 20.91 |
| | | | | 100 | 0 | 20.83 |
| | 1732.5 | 20175 | | 1 | 0 | 21.98 |
| | | | | 1 | 99 | 21.92 |
| | | | | 50 | 25 | 20.94 |
| | | | | 100 | 0 | 20.90 |
| | 1745 | 20300 | | 1 | 0 | 22.16 |
| | | | | 1 | 99 | 22.06 |
| | | | | 50 | 25 | 21.20 |
| | | | | 100 | 0 | 21.11 |

Test results conducted power measurement (Reduced Power)

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|-----|---------|-----------|-----------------------|
| QPSK | 1710.7 | 19957 | 1.4 | 1 | 0 | 14.67 |
| | | | | 1 | 5 | 14.55 |
| | | | | 3 | 2 | 13.61 |
| | | | | 6 | 0 | 13.59 |
| | 1732.5 | 20175 | | 1 | 0 | 14.66 |
| | | | | 1 | 5 | 14.65 |
| | | | | 3 | 2 | 13.70 |
| | | | | 6 | 0 | 13.63 |
| | 1754.3 | 20393 | | 1 | 0 | 14.86 |
| | | | | 1 | 5 | 14.78 |
| | | | | 3 | 2 | 13.88 |
| | | | | 6 | 0 | 13.75 |
| 16QAM | 1710.7 | 19957 | 1.4 | 1 | 0 | 13.75 |
| | | | | 1 | 5 | 13.53 |
| | | | | 3 | 2 | 12.65 |
| | | | | 6 | 0 | 12.59 |
| | 1732.5 | 20175 | | 1 | 0 | 13.72 |
| | | | | 1 | 5 | 13.63 |
| | | | | 3 | 2 | 12.70 |
| | | | | 6 | 0 | 12.65 |
| | 1754.3 | 20393 | | 1 | 0 | 13.94 |
| | | | | 1 | 5 | 13.79 |
| | | | | 3 | 2 | 12.95 |
| | | | | 6 | 0 | 12.80 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| QPSK | 1711.5 | 19965 | 3 | 1 | 0 | 14.69 |
| | | | | 1 | 14 | 14.63 |
| | | | | 8 | 4 | 13.63 |
| | | | | 15 | 0 | 13.61 |
| | 1732.5 | 20175 | | 1 | 0 | 14.77 |
| | | | | 1 | 14 | 14.70 |
| | | | | 8 | 4 | 13.66 |
| | | | | 15 | 0 | 13.63 |
| | 1753.5 | 20385 | | 1 | 0 | 14.80 |
| | | | | 1 | 14 | 14.88 |
| | | | | 8 | 4 | 13.90 |
| | | | | 15 | 0 | 13.85 |
| 16QAM | 1711.5 | 19965 | 3 | 1 | 0 | 13.68 |
| | | | | 1 | 14 | 13.52 |
| | | | | 8 | 4 | 12.60 |
| | | | | 15 | 0 | 12.61 |
| | 1732.5 | 20175 | | 1 | 0 | 13.75 |
| | | | | 1 | 14 | 13.70 |
| | | | | 8 | 4 | 12.74 |
| | | | | 15 | 0 | 12.69 |
| | 1753.5 | 20385 | | 1 | 0 | 13.95 |
| | | | | 1 | 14 | 13.78 |
| | | | | 8 | 4 | 12.98 |
| | | | | 15 | 0 | 12.89 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| QPSK | 1712.5 | 19975 | 5 | 1 | 0 | 14.81 |
| | | | | 1 | 24 | 14.59 |
| | | | | 12 | 6 | 13.66 |
| | | | | 25 | 0 | 13.59 |
| | 1732.5 | 20175 | | 1 | 0 | 14.73 |
| | | | | 1 | 24 | 14.77 |
| | | | | 12 | 6 | 13.65 |
| | | | | 25 | 0 | 13.63 |
| | 1752.5 | 20375 | | 1 | 0 | 14.94 |
| | | | | 1 | 24 | 14.88 |
| | | | | 12 | 6 | 13.97 |
| | | | | 25 | 0 | 13.81 |
| 16QAM | 1712.5 | 19975 | 5 | 1 | 0 | 13.75 |
| | | | | 1 | 24 | 13.67 |
| | | | | 12 | 6 | 12.67 |
| | | | | 25 | 0 | 12.57 |
| | 1732.5 | 20175 | | 1 | 0 | 13.81 |
| | | | | 1 | 24 | 13.75 |
| | | | | 12 | 6 | 12.67 |
| | | | | 25 | 0 | 12.63 |
| | 1752.5 | 20375 | | 1 | 0 | 14.00 |
| | | | | 1 | 24 | 13.91 |
| | | | | 12 | 6 | 13.00 |
| | | | | 25 | 0 | 12.92 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| QPSK | 1715 | 20000 | 10 | 1 | 0 | 14.87 |
| | | | | 1 | 49 | 14.70 |
| | | | | 24 | 12 | 13.79 |
| | | | | 50 | 0 | 13.66 |
| | 1732.5 | 20175 | | 1 | 0 | 14.81 |
| | | | | 1 | 49 | 14.74 |
| | | | | 24 | 12 | 13.75 |
| | | | | 50 | 0 | 13.69 |
| | 1750 | 20350 | | 1 | 0 | 14.96 |
| | | | | 1 | 49 | 14.99 |
| | | | | 24 | 12 | 14.04 |
| | | | | 50 | 0 | 13.90 |
| 16QAM | 1715 | 20000 | 10 | 1 | 0 | 13.88 |
| | | | | 1 | 49 | 13.67 |
| | | | | 24 | 12 | 12.79 |
| | | | | 50 | 0 | 12.72 |
| | 1732.5 | 20175 | | 1 | 0 | 13.83 |
| | | | | 1 | 49 | 13.75 |
| | | | | 24 | 12 | 12.79 |
| | | | | 50 | 0 | 12.80 |
| | 1750 | 20350 | | 1 | 0 | 14.05 |
| | | | | 1 | 49 | 13.90 |
| | | | | 24 | 12 | 13.08 |
| | | | | 50 | 0 | 12.93 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| QPSK | 1717.5 | 20025 | 15 | 1 | 0 | 14.90 |
| | | | | 1 | 74 | 14.76 |
| | | | | 40 | 18 | 13.73 |
| | | | | 75 | 0 | 13.74 |
| | 1732.5 | 20175 | | 1 | 0 | 14.83 |
| | | | | 1 | 74 | 14.79 |
| | | | | 40 | 18 | 13.83 |
| | | | | 75 | 0 | 13.74 |
| | 1747.5 | 20325 | | 1 | 0 | 15.06 |
| | | | | 1 | 74 | 14.93 |
| | | | | 40 | 18 | 14.07 |
| | | | | 75 | 0 | 14.00 |
| 16QAM | 1717.5 | 20025 | 15 | 1 | 0 | 13.93 |
| | | | | 1 | 74 | 13.76 |
| | | | | 40 | 18 | 12.81 |
| | | | | 75 | 0 | 12.77 |
| | 1732.5 | 20175 | | 1 | 0 | 13.88 |
| | | | | 1 | 74 | 13.87 |
| | | | | 40 | 18 | 12.85 |
| | | | | 75 | 0 | 12.80 |
| | 1747.5 | 20325 | | 1 | 0 | 14.08 |
| | | | | 1 | 74 | 14.01 |
| | | | | 40 | 18 | 13.14 |
| | | | | 75 | 0 | 13.00 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| QPSK | 1720 | 20050 | 20 | 1 | 0 | 14.95 |
| | | | | 1 | 99 | 14.83 |
| | | | | 50 | 25 | 13.87 |
| | | | | 100 | 0 | 13.83 |
| | 1732.5 | 20175 | | 1 | 0 | 14.97 |
| | | | | 1 | 99 | 14.91 |
| | | | | 50 | 25 | 13.92 |
| | | | | 100 | 0 | 13.87 |
| | 1745 | 20300 | | 1 | 0 | 15.11 |
| | | | | 1 | 99 | 15.08 |
| | | | | 50 | 25 | 14.18 |
| | | | | 100 | 0 | 14.06 |
| 16QAM | 1720 | 20050 | 20 | 1 | 0 | 13.99 |
| | | | | 1 | 99 | 13.82 |
| | | | | 50 | 25 | 12.91 |
| | | | | 100 | 0 | 12.83 |
| | 1732.5 | 20175 | | 1 | 0 | 13.98 |
| | | | | 1 | 99 | 13.92 |
| | | | | 50 | 25 | 12.94 |
| | | | | 100 | 0 | 12.90 |
| | 1745 | 20300 | | 1 | 0 | 14.16 |
| | | | | 1 | 99 | 14.06 |
| | | | | 50 | 25 | 13.20 |
| | | | | 100 | 0 | 13.11 |

2 Occupied Bandwidth

Test result

| Band | Carrier frequency (MHz) | Channel | BW (MHz) | RB Size | RB Offset | Bandwidth of 99% Power (MHz) | | | |
|--------|-------------------------|---------|----------|---------|-----------|------------------------------|--------|--------|--------|
| | | | | | | QPSK | | 16-QAM | |
| 4 | 1710.7 | 19957 | 1.4 | 6 | 0 | 1.0829 | Fig.1 | 1.0818 | Fig.2 |
| | 1732.5 | 20175 | | 6 | 0 | 1.0822 | Fig.3 | 1.0842 | Fig.4 |
| | 1754.3 | 20393 | | 6 | 0 | 1.0831 | Fig.5 | 1.0830 | Fig.6 |
| | 1711.5 | 19965 | 3 | 15 | 0 | 2.6866 | Fig.7 | 2.6929 | Fig.8 |
| | 1732.5 | 20175 | | 15 | 0 | 2.6922 | Fig.9 | 2.6880 | Fig.10 |
| | 1753.5 | 20385 | | 15 | 0 | 2.6910 | Fig.11 | 2.6930 | Fig.12 |
| | 1712.5 | 19975 | 5 | 25 | 0 | 4.4771 | Fig.13 | 4.4778 | Fig.14 |
| | 1732.5 | 20175 | | 25 | 0 | 4.4770 | Fig.15 | 4.4771 | Fig.16 |
| | 1752.5 | 20375 | | 25 | 0 | 4.4771 | Fig.17 | 4.4743 | Fig.18 |
| | 1715 | 20000 | 10 | 50 | 0 | 8.9258 | Fig.19 | 8.9427 | Fig.20 |
| | 1732.5 | 20175 | | 50 | 0 | 8.9358 | Fig.21 | 8.9483 | Fig.22 |
| | 1750 | 20350 | | 50 | 0 | 8.9329 | Fig.23 | 8.9248 | Fig.24 |
| | 1717.5 | 20025 | 15 | 75 | 0 | 13.414 | Fig.25 | 13.430 | Fig.26 |
| | 1732.5 | 20175 | | 75 | 0 | 13.400 | Fig.27 | 13.434 | Fig.28 |
| | 1747.5 | 20325 | | 75 | 0 | 13.414 | Fig.29 | 13.398 | Fig.30 |
| | 1720 | 20050 | 20 | 100 | 0 | 17.829 | Fig.31 | 17.798 | Fig.32 |
| 1732.5 | 20175 | 100 | | 0 | 17.849 | Fig.33 | 17.831 | Fig.34 | |
| 1745 | 20300 | 100 | | 0 | 17.818 | Fig.35 | 17.841 | Fig.36 | |

| Band | Carrier frequency (MHz) | Channel | BW (MHz) | RB Size | RB Offset | Bandwidth of -26dB transmitter power (MHz) | | | |
|--------|-------------------------|---------|----------|---------|-----------|--|--------|--------|--------|
| | | | | | | QPSK | | 16-QAM | |
| 4 | 1710.7 | 19957 | 1.4 | 6 | 0 | 1.265 | Fig.1 | 1.266 | Fig.2 |
| | 1732.5 | 20175 | | 6 | 0 | 1.269 | Fig.3 | 1.268 | Fig.4 |
| | 1754.3 | 20393 | | 6 | 0 | 1.261 | Fig.5 | 1.258 | Fig.6 |
| | 1711.5 | 19965 | 3 | 15 | 0 | 2.982 | Fig.7 | 3.005 | Fig.8 |
| | 1732.5 | 20175 | | 15 | 0 | 2.980 | Fig.9 | 2.972 | Fig.10 |
| | 1753.5 | 20385 | | 15 | 0 | 2.976 | Fig.11 | 2.964 | Fig.12 |
| | 1712.5 | 19975 | 5 | 25 | 0 | 4.933 | Fig.13 | 4.935 | Fig.14 |
| | 1732.5 | 20175 | | 25 | 0 | 4.941 | Fig.15 | 4.935 | Fig.16 |
| | 1752.5 | 20375 | | 25 | 0 | 4.935 | Fig.17 | 4.974 | Fig.18 |
| | 1715 | 20000 | 10 | 50 | 0 | 9.770 | Fig.19 | 9.640 | Fig.20 |
| | 1732.5 | 20175 | | 50 | 0 | 9.724 | Fig.21 | 9.708 | Fig.22 |
| | 1750 | 20350 | | 50 | 0 | 9.659 | Fig.23 | 9.592 | Fig.24 |
| | 1717.5 | 20025 | 15 | 75 | 0 | 14.43 | Fig.25 | 14.53 | Fig.26 |
| | 1732.5 | 20175 | | 75 | 0 | 14.49 | Fig.27 | 14.40 | Fig.28 |
| | 1747.5 | 20325 | | 75 | 0 | 14.46 | Fig.29 | 14.38 | Fig.30 |
| | 1720 | 20050 | 20 | 100 | 0 | 19.13 | Fig.31 | 18.93 | Fig.32 |
| 1732.5 | 20175 | 100 | | 0 | 19.43 | Fig.33 | 19.16 | Fig.34 | |
| 1745 | 20300 | 100 | | 0 | 19.15 | Fig.35 | 18.82 | Fig.36 | |

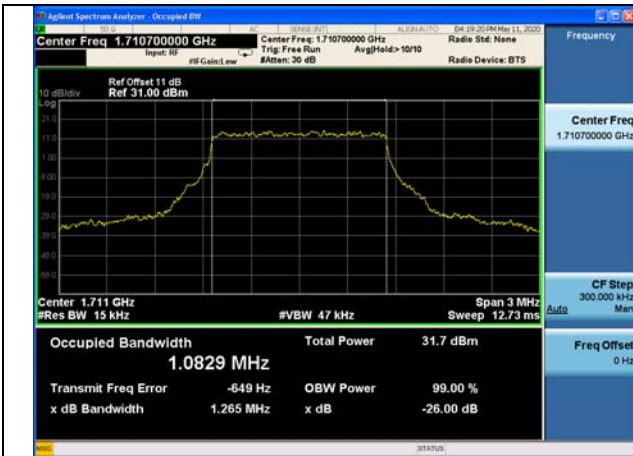


Fig.1

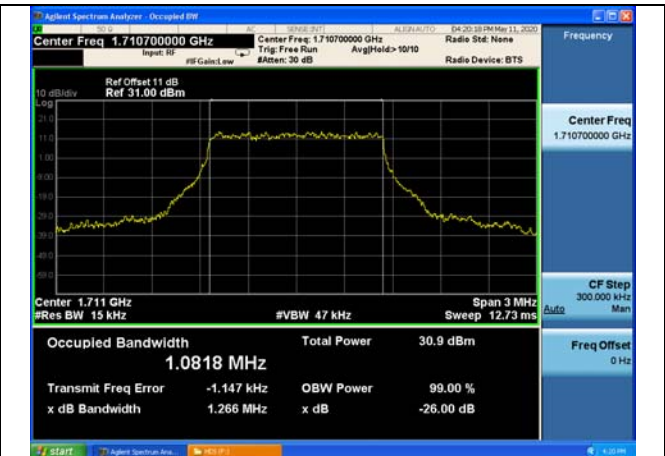


Fig.2

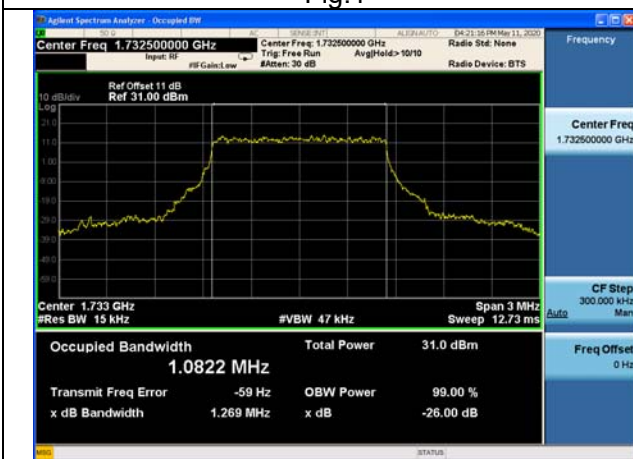


Fig.3

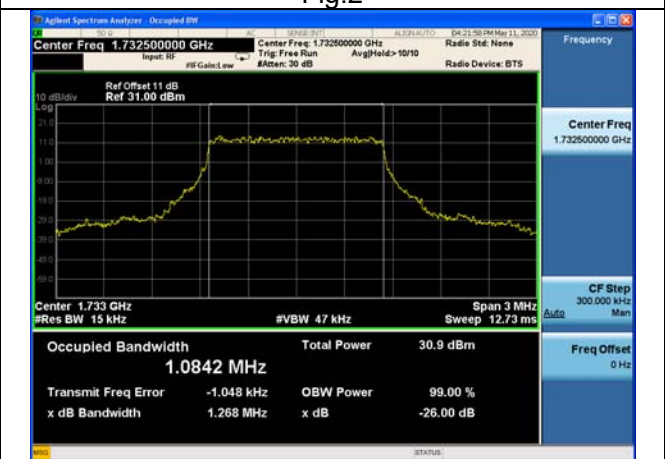


Fig.4

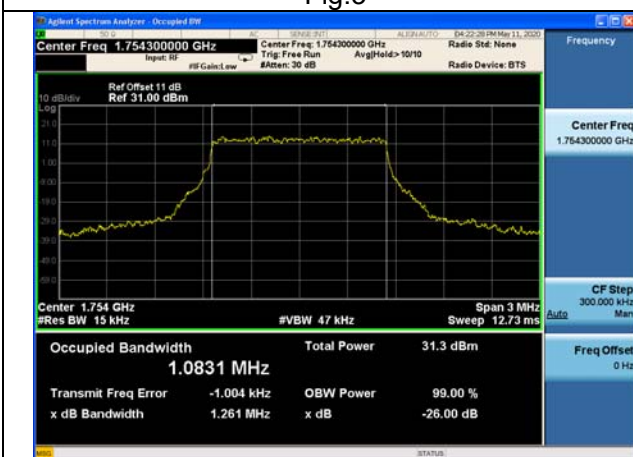


Fig.5

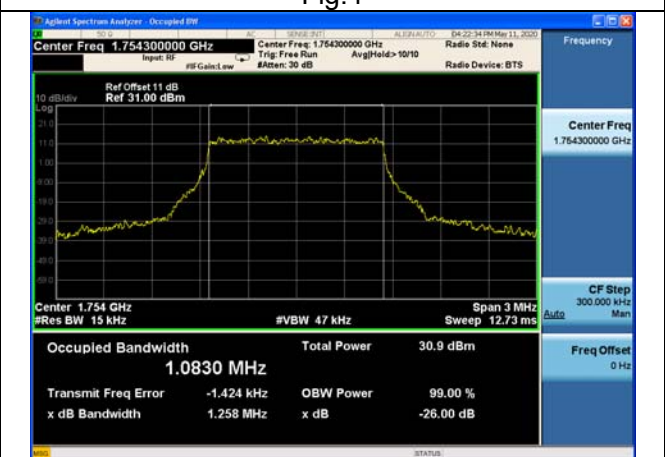


Fig.6



Fig.7



Fig.8

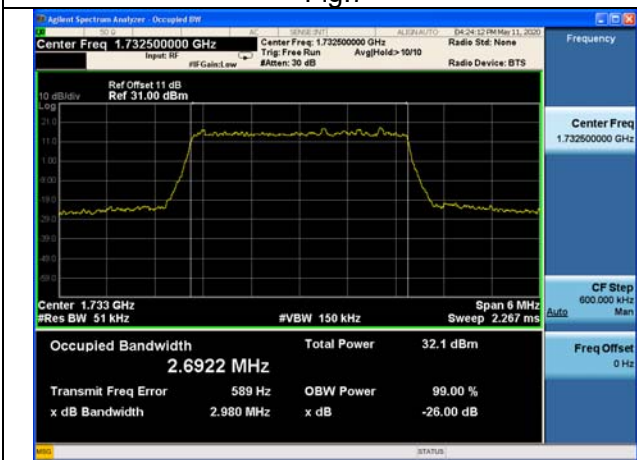


Fig.9

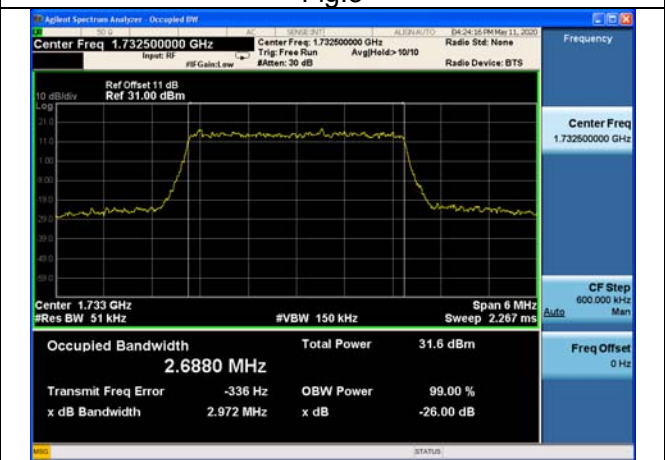


Fig.10

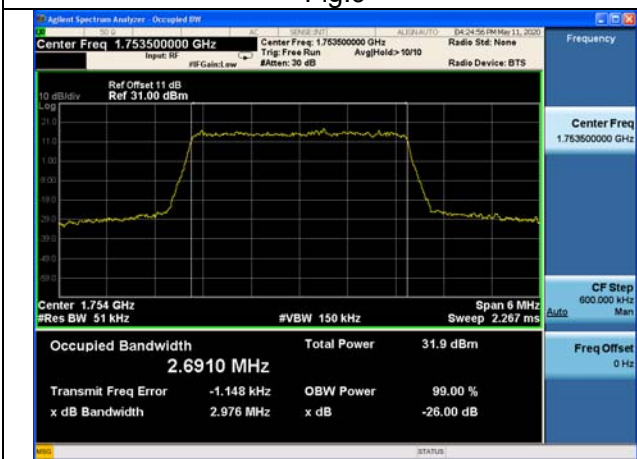


Fig.11

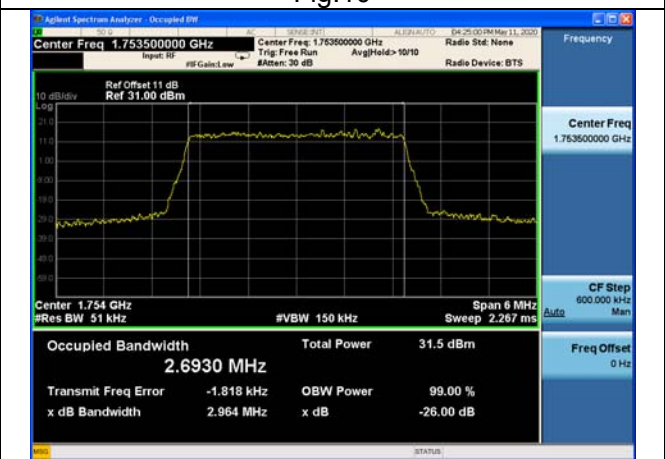


Fig.12

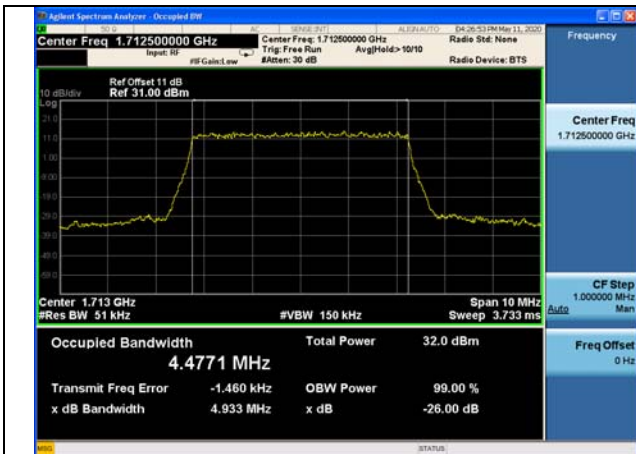


Fig.13

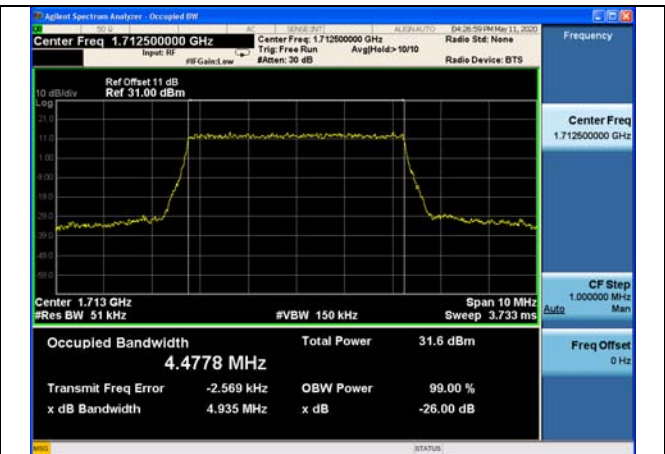


Fig.14

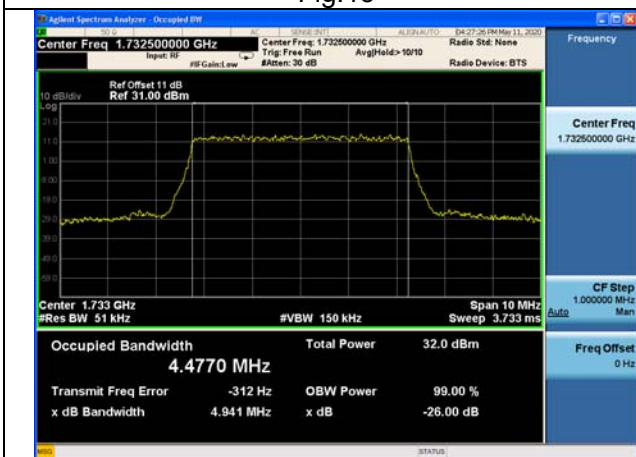


Fig.15

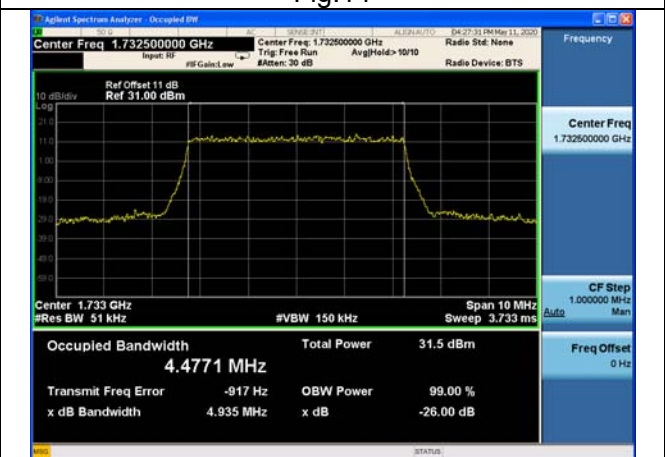


Fig.16

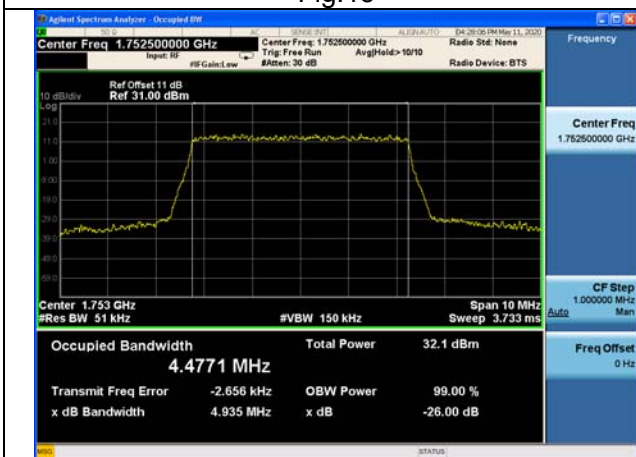


Fig.17

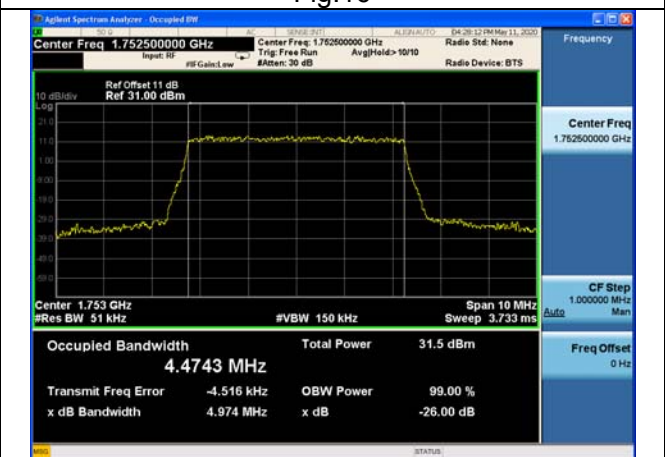


Fig.18

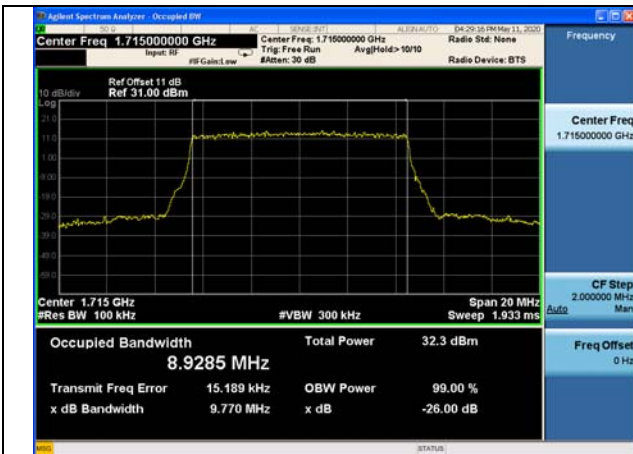


Fig.19



Fig.20

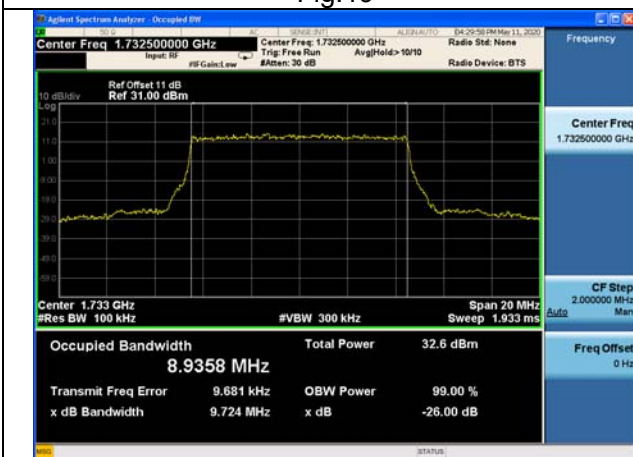


Fig.21

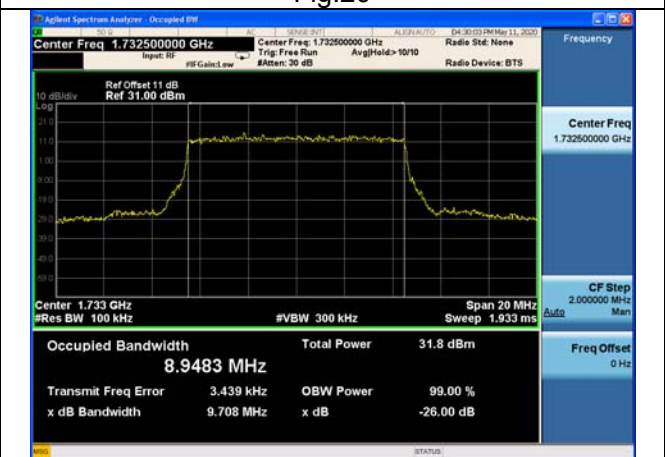


Fig.22

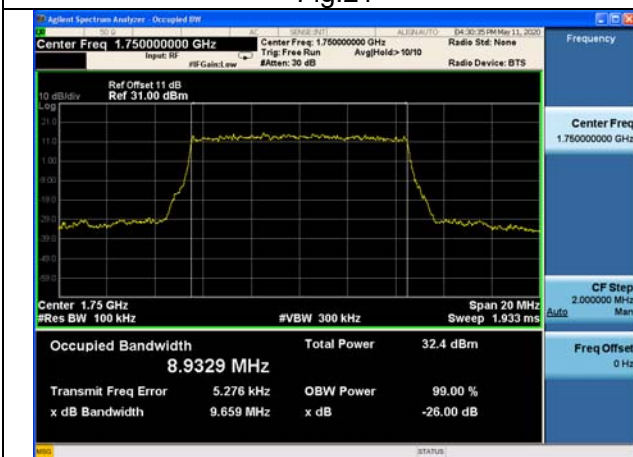


Fig.23

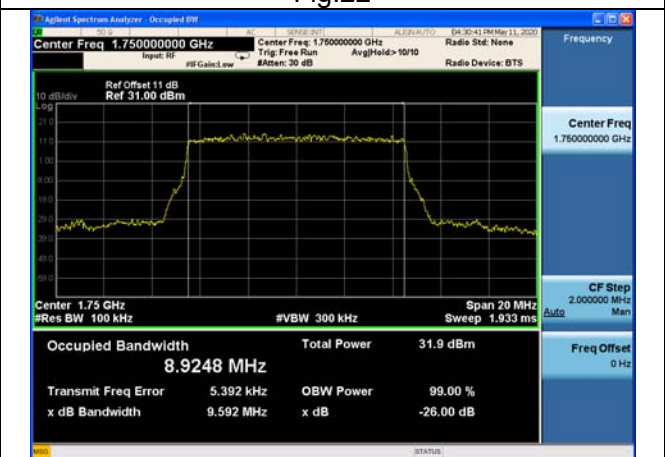


Fig.24

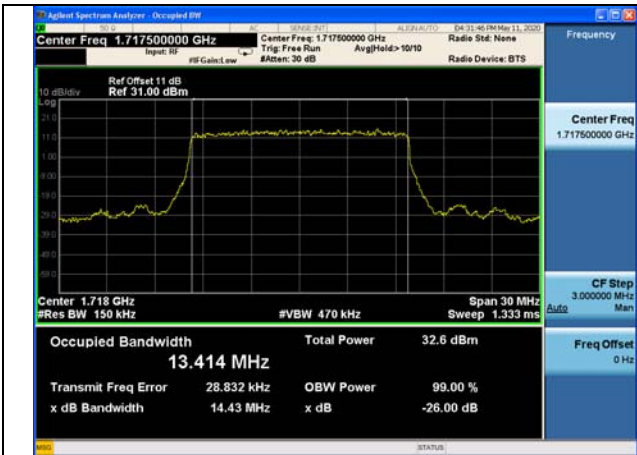


Fig.25

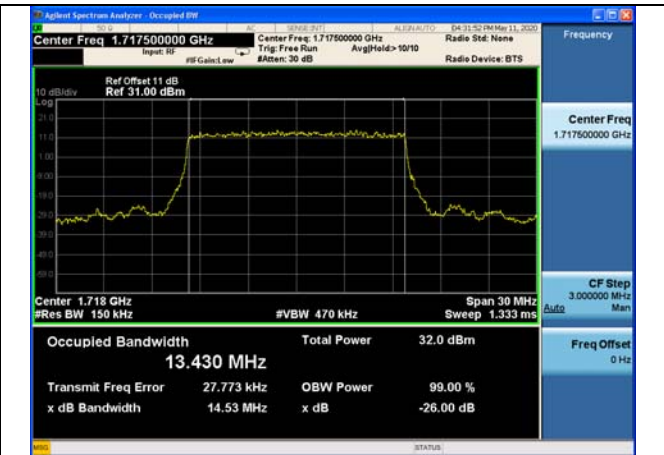


Fig.26

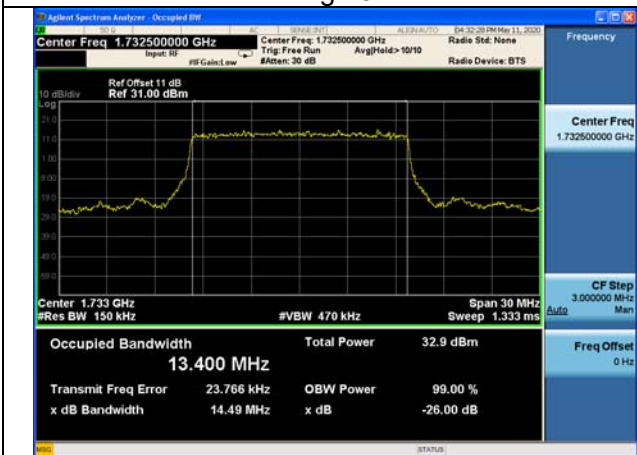


Fig.27

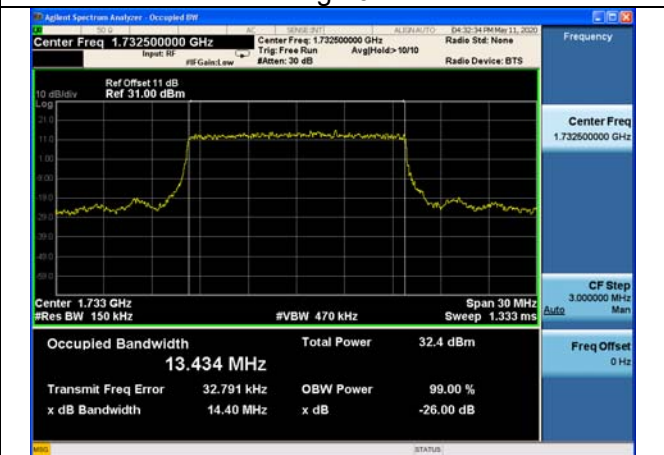


Fig.28

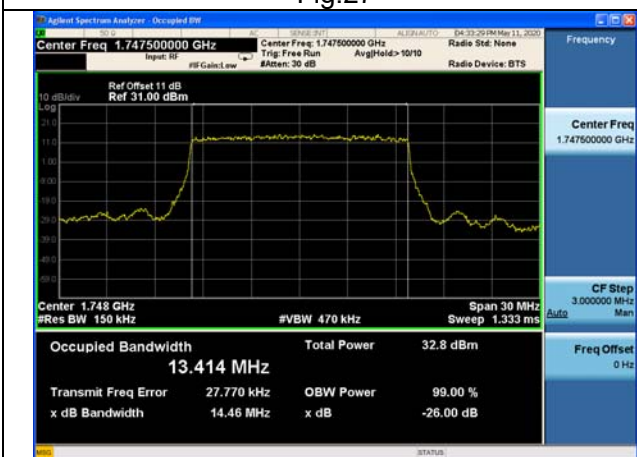


Fig.29

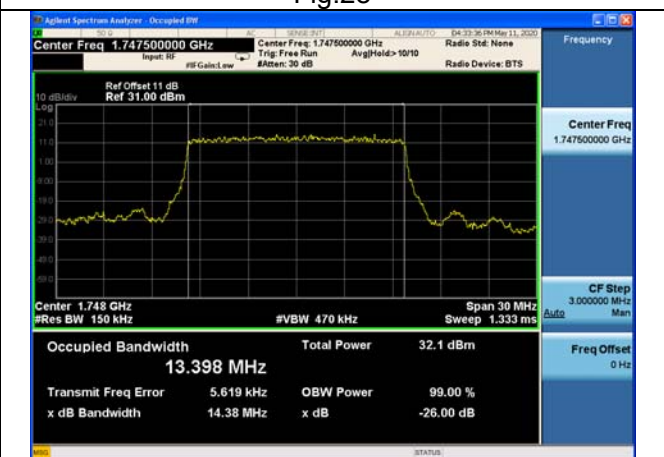


Fig.30

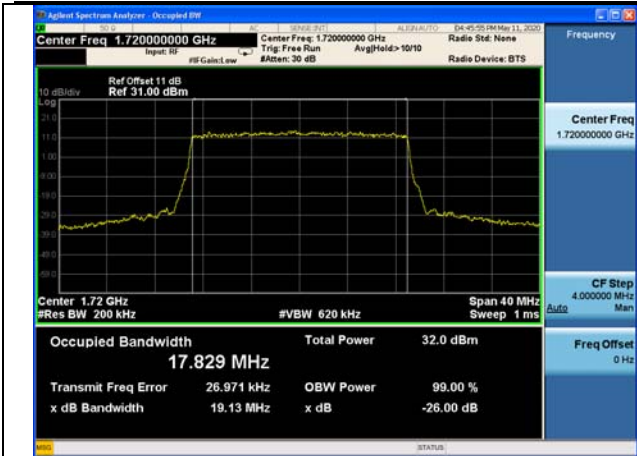


Fig.31

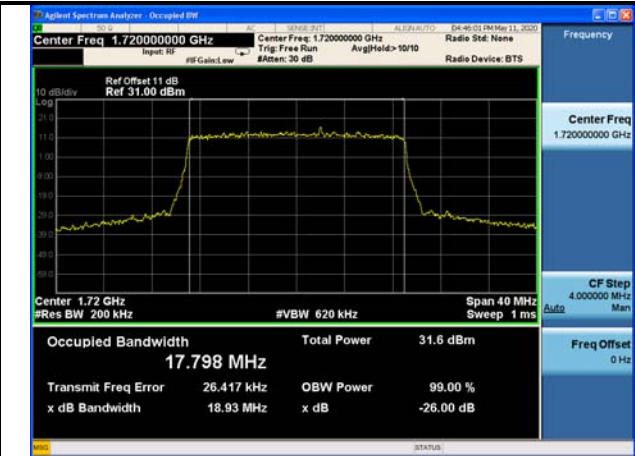


Fig.32

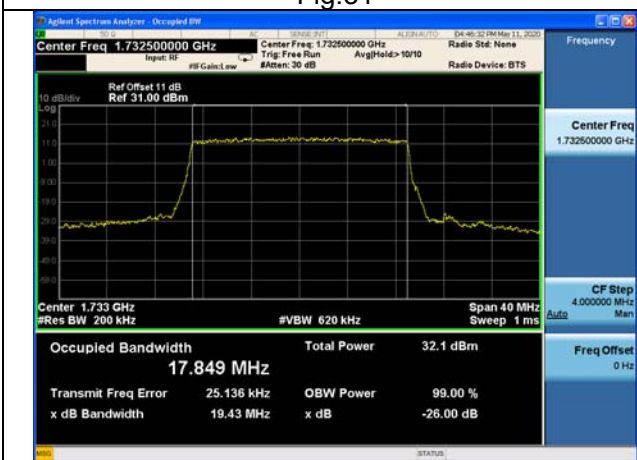


Fig.33

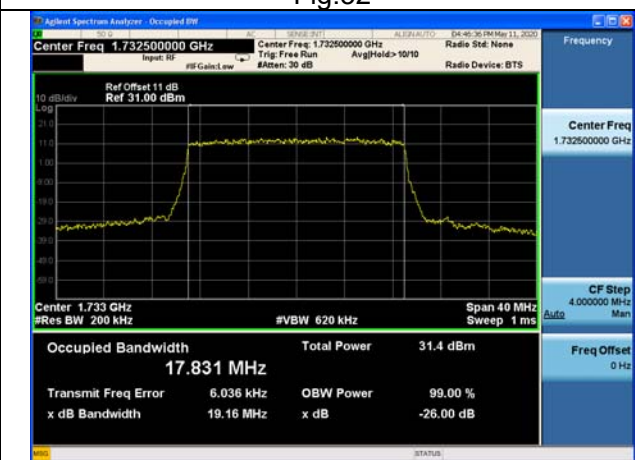


Fig.34



Fig.35

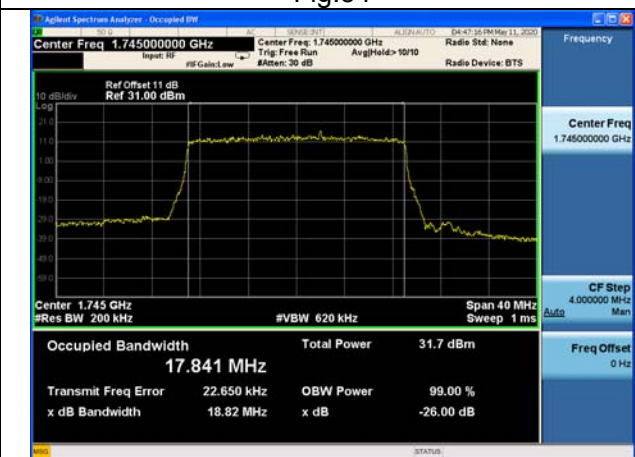


Fig.36

3 Peak-Average Ratio

| Band | Carrier frequency (MHz) | Channel | BW (MHz) | RB Size | RB Offset | QPSK | 16-QAM |
|------|-------------------------|---------|----------|---------|-----------|--------|--------|
| 4 | 1732.5 | 20175 | 1.4 | 1 | 0 | Fig.1 | Fig.2 |
| | | | 3 | 1 | 0 | Fig.3 | Fig.4 |
| | | | 5 | 1 | 0 | Fig.5 | Fig.6 |
| | | | 10 | 1 | 0 | Fig.7 | Fig.8 |
| | | | 15 | 1 | 0 | Fig.9 | Fig.10 |
| | | | 20 | 1 | 0 | Fig.11 | Fig.12 |

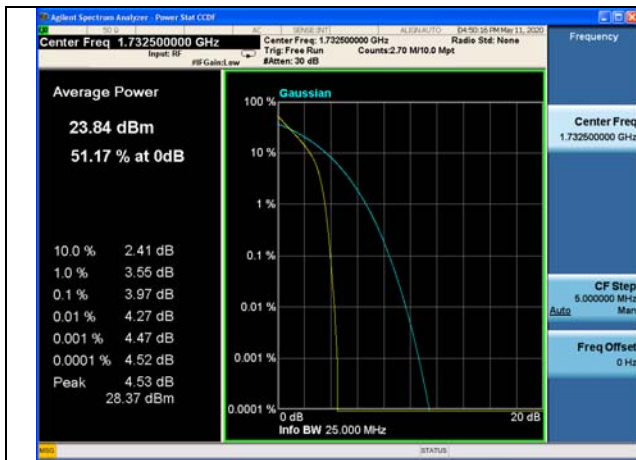


Fig.1

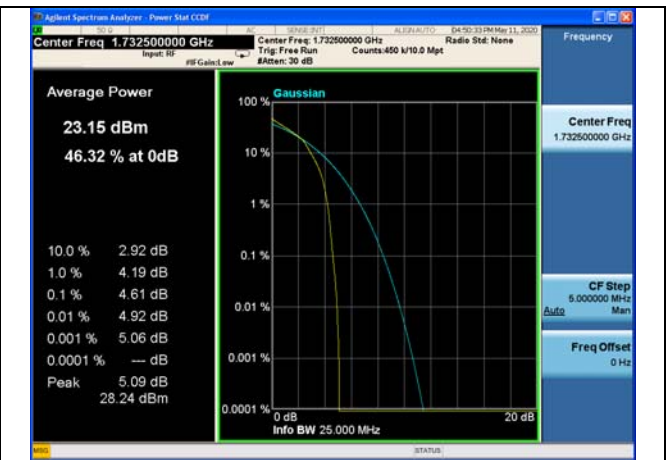


Fig.2

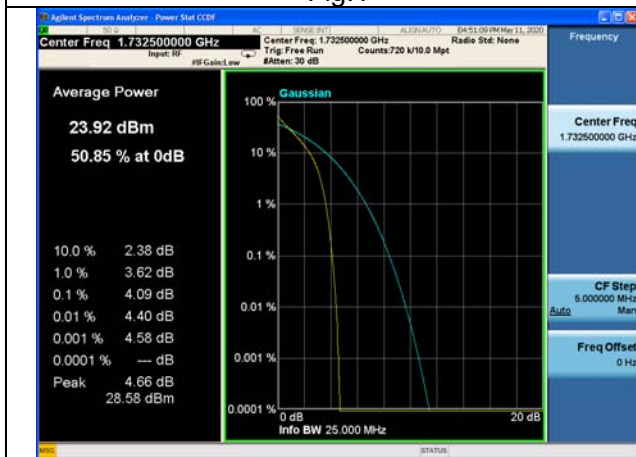


Fig.3

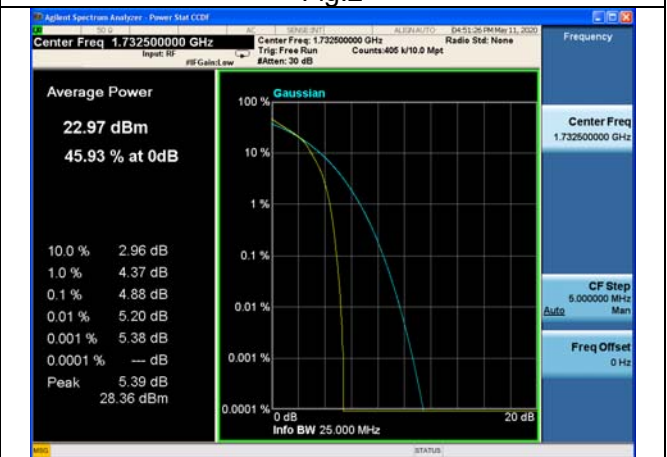


Fig.4

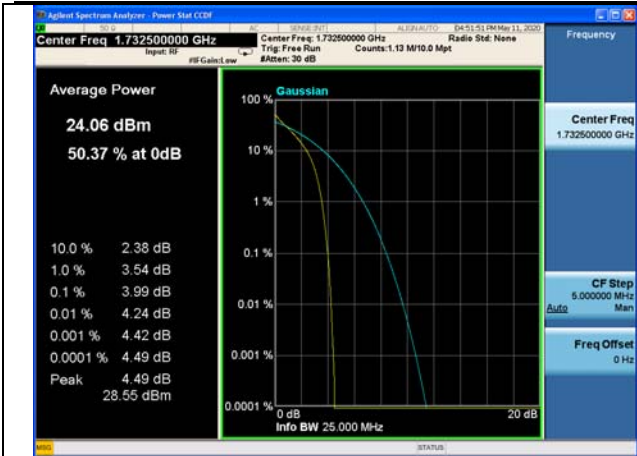


Fig.5



Fig.6

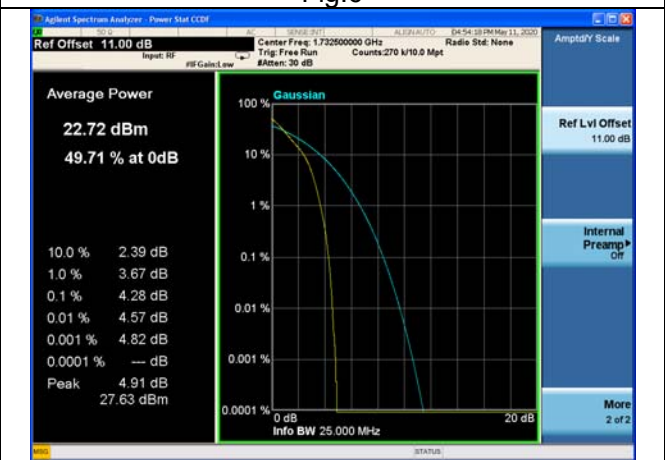


Fig.7

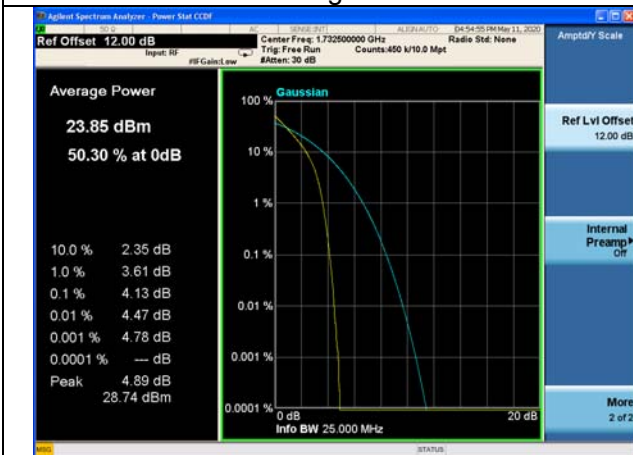


Fig.8



Fig.9

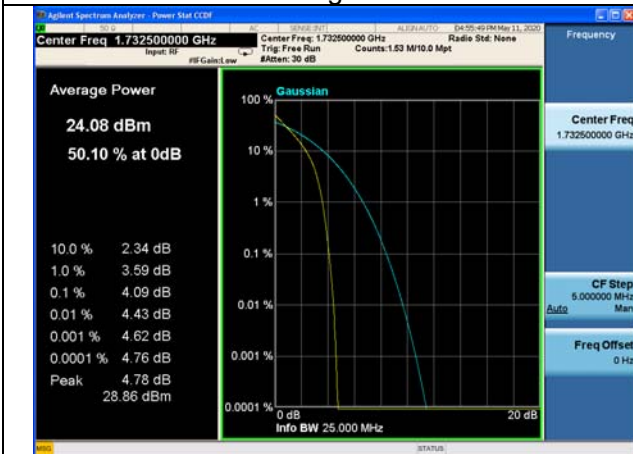


Fig.10



Fig.11

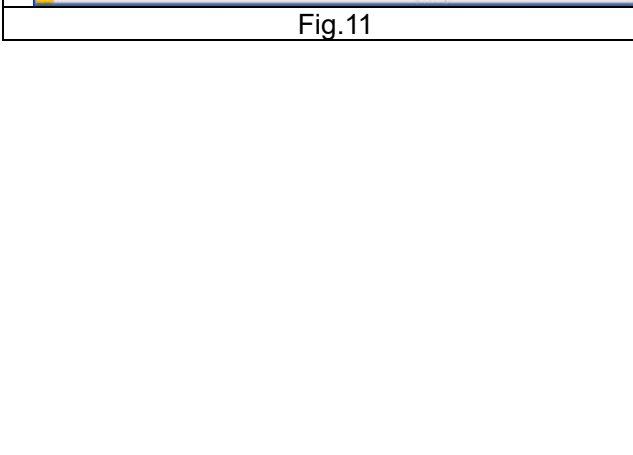
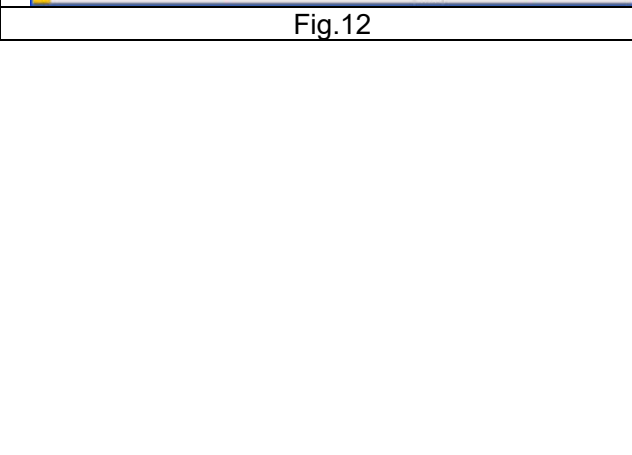


Fig.12



4 Spurious Emissions at antenna terminal

| Band | Carrier frequency (MHz) | Channel | BW | RB Size | RB Offset | Conducted Spurious Plot |
|------|-------------------------|---------|----|---------|-----------|-------------------------|
| | | | | | | QPSK |
| 4 | 1720 | 20050 | 20 | 1 | 0 | Fig.1-2 |
| | 1732.5 | 20175 | 20 | 1 | 0 | Fig.3-4 |
| | 1745 | 20300 | 20 | 1 | 0 | Fig.5-6 |

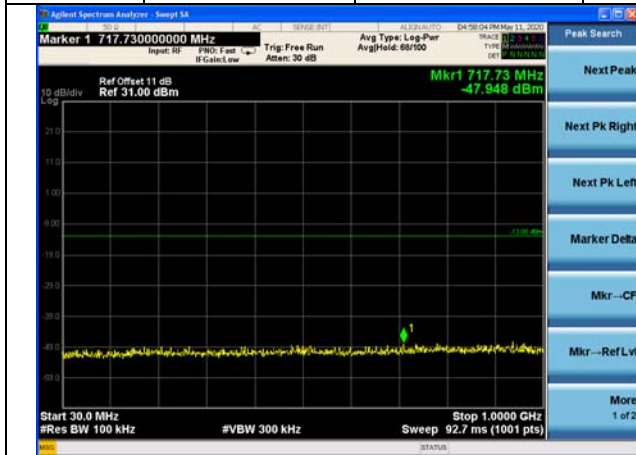


Fig.1



Fig.2

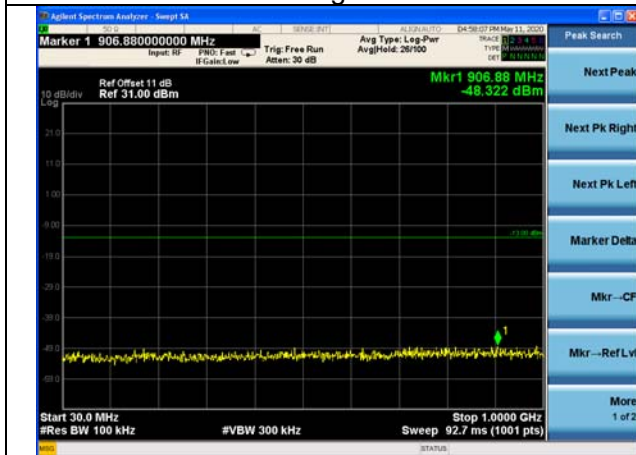


Fig3



Fig4

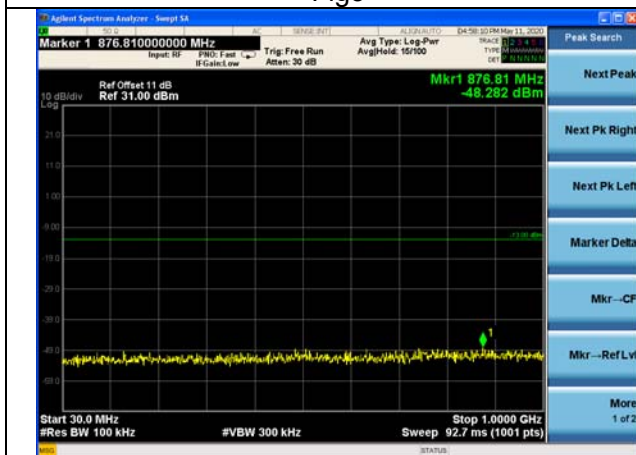


Fig5

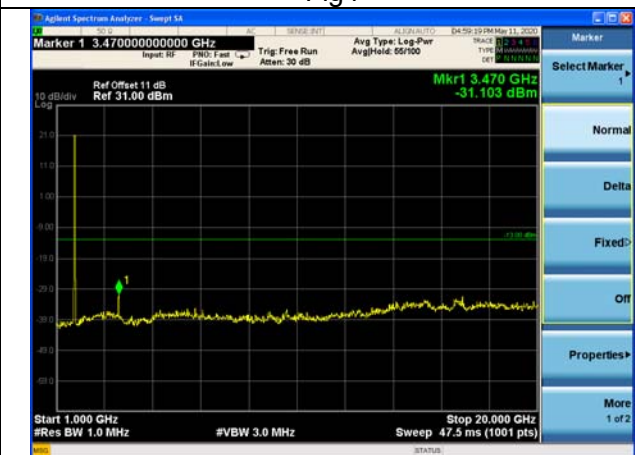


Fig6

5 Band Edges Compliance

Test result

| Band | Carrier frequency (MHz) | Channel | BW | RB Size | RB Offset | Band Edges Plot |
|------|-------------------------|---------|-----|---------|-----------|-----------------|
| | | | | | | QPSK |
| 4 | 1710.7 | 19957 | 1.4 | 1 | 0 | Fig.1 |
| | | | | 6 | 0 | Fig.2 |
| | 1754.3 | 20393 | | 1 | 5 | Fig.3 |
| | | | | 6 | 0 | Fig.4 |
| | 1711.5 | 19965 | 3 | 1 | 0 | Fig.5 |
| | | | | 15 | 0 | Fig.6 |
| | 1753.5 | 20385 | | 1 | 14 | Fig.7 |
| | | | | 15 | 0 | Fig.8 |
| | 1712.5 | 19975 | 5 | 1 | 0 | Fig.9 |
| | | | | 25 | 0 | Fig.10 |
| | 1752.5 | 20375 | | 1 | 24 | Fig.11 |
| | | | | 25 | 0 | Fig.12 |
| | 1715 | 20000 | 10 | 1 | 0 | Fig.13 |
| | | | | 50 | 0 | Fig.14 |
| | 1750 | 20350 | | 1 | 49 | Fig.15 |
| | | | | 50 | 0 | Fig.16 |
| | 1717.5 | 20025 | 15 | 1 | 0 | Fig.17 |
| | | | | 75 | 0 | Fig.18 |
| | 1747.5 | 20325 | | 1 | 74 | Fig.19 |
| | | | | 75 | 0 | Fig.20 |
| | 1720 | 20050 | 20 | 1 | 0 | Fig.21 |
| | | | | 100 | 0 | Fig.22 |
| | 1745 | 20300 | | 1 | 99 | Fig.23 |
| | | | | 100 | 0 | Fig.24 |

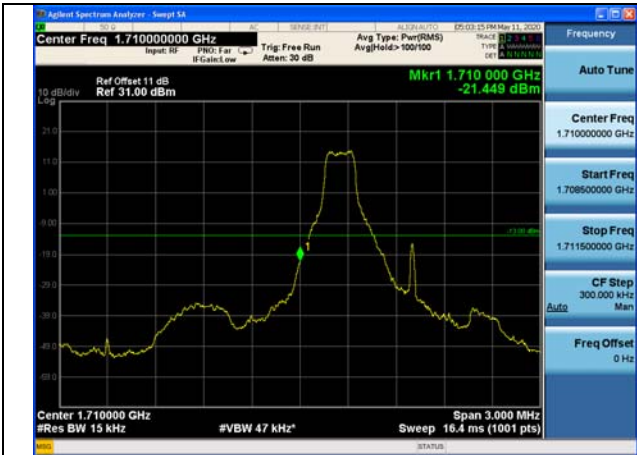


Fig.1



Fig.2

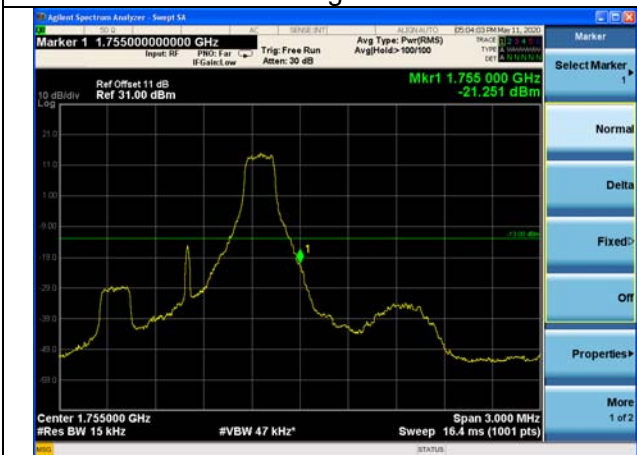


Fig.3

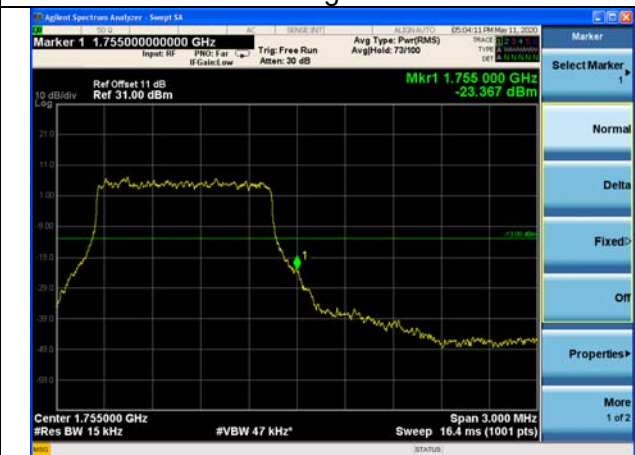


Fig.4

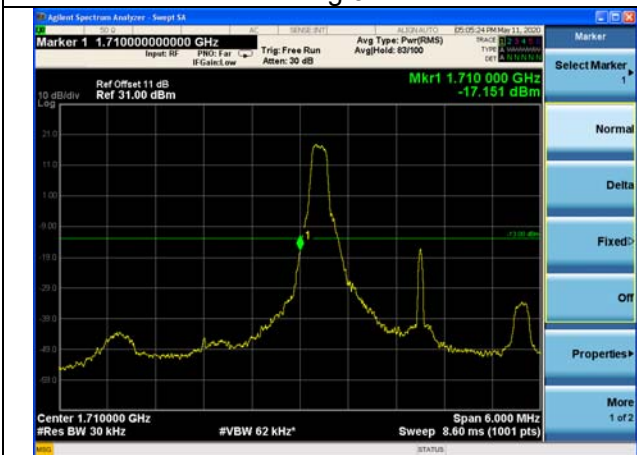


Fig.5

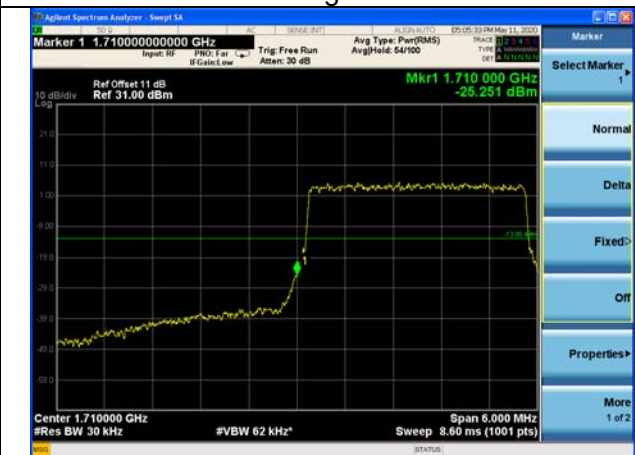


Fig.6

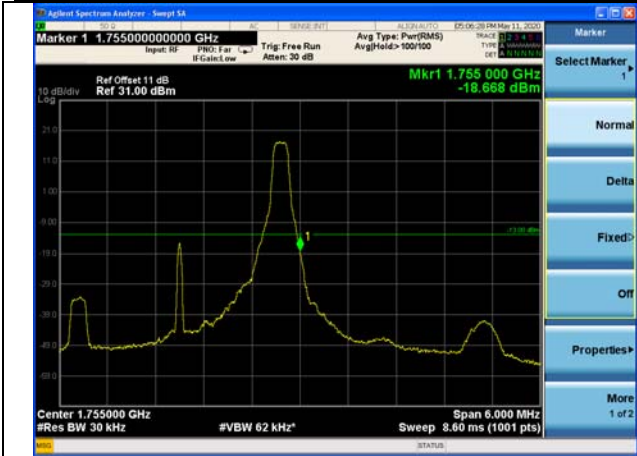


Fig.7



Fig.8

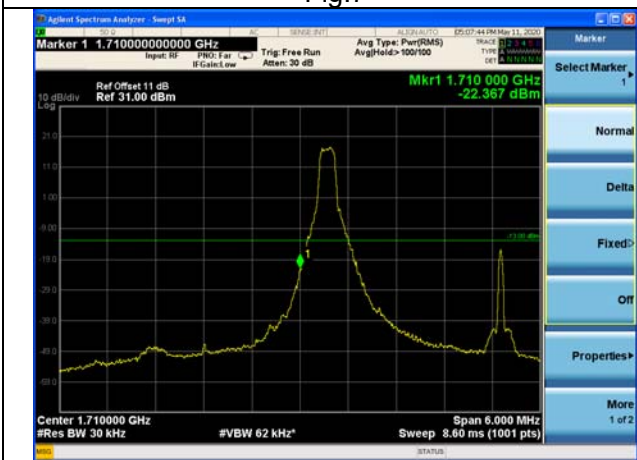


Fig.9

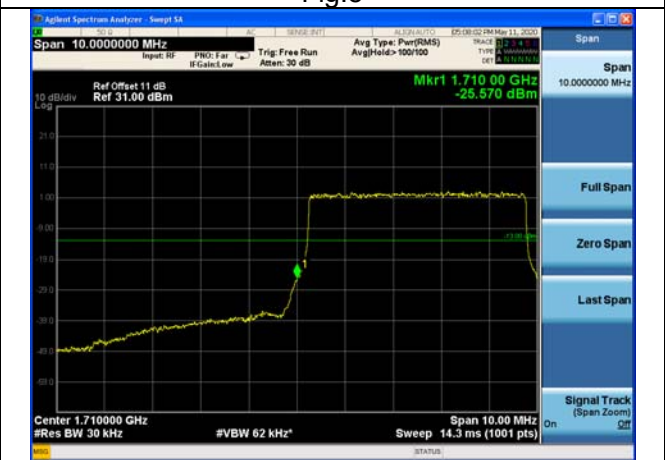


Fig.10

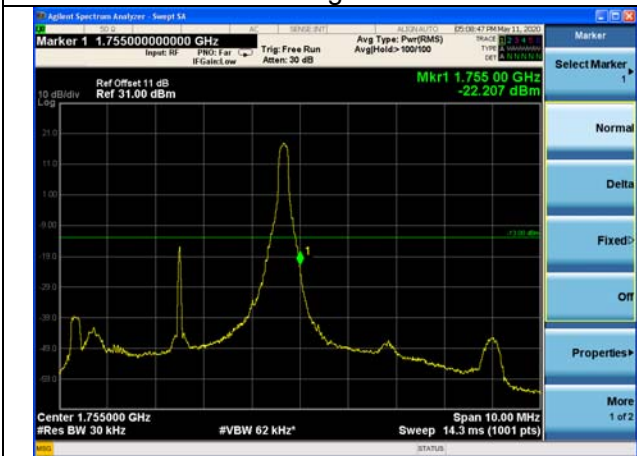


Fig.11



Fig.12

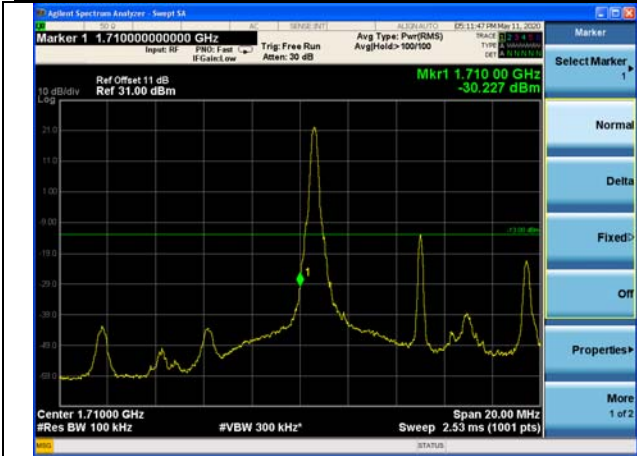


Fig.13



Fig.14

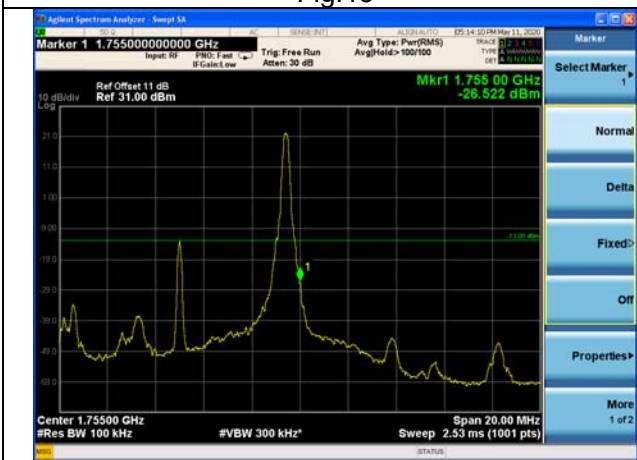


Fig.15



Fig.16

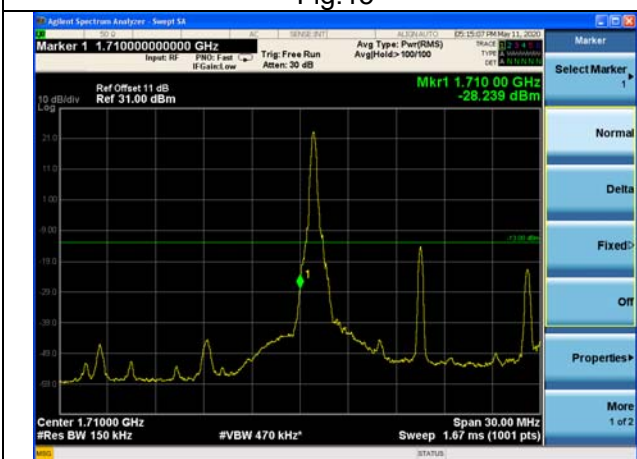


Fig.17



Fig.18

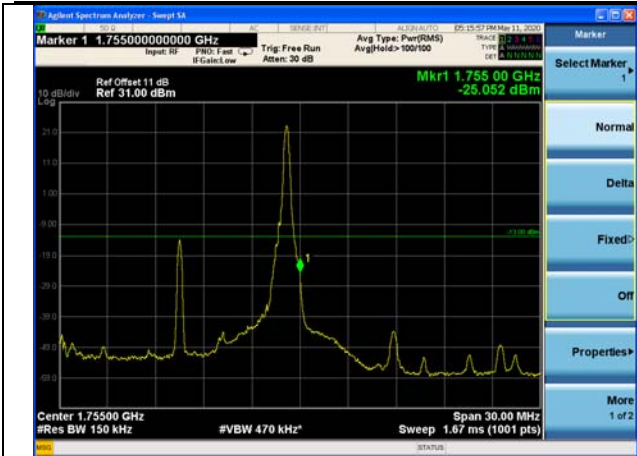


Fig.19



Fig.20

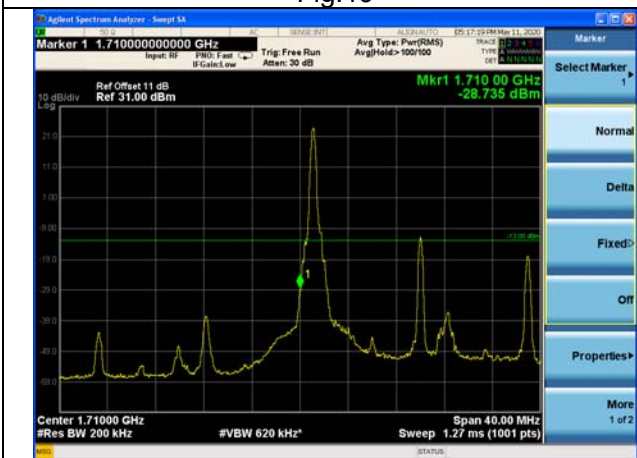


Fig.21



Fig.22

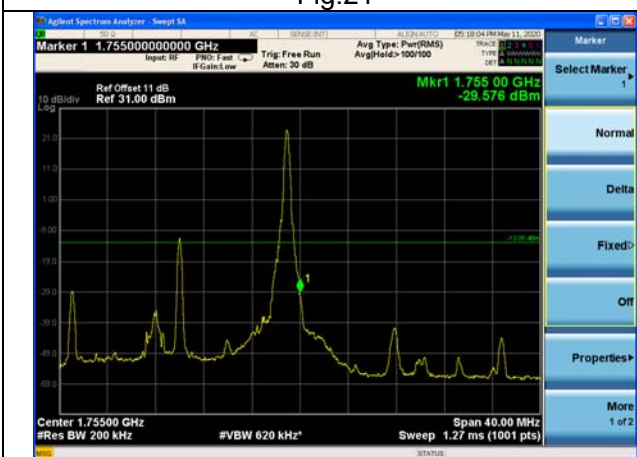


Fig.23



Fig.24

6 Frequency Stability

Test result:

| Temperature(°C) | Voltage | Test Result (ppm) Band4 Low Channel | | | | | |
|-----------------|---------|-------------------------------------|--------|--------|--------|--------|--------|
| | | 1.4M | 3M | 5M | 10M | 15M | 20M |
| -10 | NV | 0.013 | 0.002 | 0.015 | -0.021 | -0.012 | 0.022 |
| 0 | NV | 0.017 | 0.024 | -0.012 | -0.011 | 0.020 | 0.025 |
| +10 | NV | -0.007 | -0.018 | -0.005 | 0.013 | 0.014 | -0.030 |
| +20 | NV | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| +30 | NV | 0.011 | -0.007 | -0.024 | 0.020 | 0.025 | -0.026 |
| +40 | NV | 0.021 | -0.012 | -0.020 | 0.018 | 0.036 | 0.018 |
| +50 | NV | 0.011 | -0.024 | 0.027 | 0.017 | -0.007 | 0.014 |
| +55 | NV | -0.012 | -0.021 | -0.015 | -0.016 | 0.006 | -0.030 |
| +20 | LV | -0.017 | -0.009 | 0.026 | -0.022 | 0.016 | -0.031 |
| +20 | HV | 0.027 | -0.030 | 0.025 | 0.023 | 0.014 | -0.007 |

| Temperature(°C) | Voltage | Test Result (ppm) Band4 High Channel | | | | | |
|-----------------|---------|--------------------------------------|--------|--------|--------|--------|--------|
| | | 1.4M | 3M | 5M | 10M | 15M | 20M |
| -10 | NV | 0.009 | 0.018 | 0.004 | 0.002 | 0.024 | -0.028 |
| 0 | NV | 0.019 | -0.003 | -0.011 | 0.012 | -0.012 | 0.017 |
| +10 | NV | -0.009 | -0.018 | 0.021 | -0.006 | 0.024 | 0.033 |
| +20 | NV | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| +30 | NV | -0.011 | 0.023 | 0.024 | 0.011 | 0.029 | 0.018 |
| +40 | NV | -0.026 | 0.017 | 0.018 | -0.003 | 0.005 | -0.020 |
| +50 | NV | -0.013 | -0.027 | 0.032 | -0.016 | -0.016 | 0.021 |
| +55 | NV | -0.013 | 0.016 | 0.027 | 0.018 | 0.006 | 0.011 |
| +20 | LV | 0.021 | -0.012 | 0.005 | 0.019 | 0.014 | 0.027 |
| +20 | HV | -0.028 | 0.021 | -0.005 | -0.017 | 0.016 | -0.024 |