

## APPENDIX A – TEST DATA OF CONDUCTED EMISSION

### LTE Band 5

#### 1 RF Power Output

| Rx Power Output |                         |            |     |         |           |                       |
|-----------------|-------------------------|------------|-----|---------|-----------|-----------------------|
| Modulation      | Carrier frequency (MHz) | UL Channel | BW  | RB Size | RB Offset | Conducted power (dBm) |
| 16QAM           | 824.7                   | 20407      | 1.4 | 1       | 0         | 22.72                 |
|                 |                         |            |     | 1       | 3         | 22.87                 |
|                 |                         |            |     | 1       | 5         | 22.89                 |
|                 |                         |            |     | 3       | 0         | 22.77                 |
|                 |                         |            |     | 3       | 1         | 22.93                 |
|                 |                         |            |     | 3       | 3         | 22.89                 |
|                 |                         |            |     | 6       | 0         | 21.58                 |
|                 | 836.5                   | 20525      |     | 1       | 0         | 23.30                 |
|                 |                         |            |     | 1       | 3         | 23.44                 |
|                 |                         |            |     | 1       | 5         | 23.55                 |
|                 |                         |            |     | 3       | 0         | 23.04                 |
|                 |                         |            |     | 3       | 1         | 22.96                 |
|                 |                         |            |     | 3       | 3         | 23.04                 |
|                 |                         |            |     | 6       | 0         | 22.20                 |
|                 | 848.3                   | 20643      |     | 1       | 0         | 22.91                 |
|                 |                         |            |     | 1       | 3         | 22.86                 |
|                 |                         |            |     | 1       | 5         | 23.06                 |
|                 |                         |            |     | 3       | 0         | 23.06                 |
|                 |                         |            |     | 3       | 1         | 23.15                 |
|                 |                         |            |     | 3       | 3         | 23.21                 |
|                 |                         |            |     | 6       | 0         | 22.26                 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW  | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|-----|---------|-----------|-----------------------|
| QPSK       | 824.7                   | 20407      | 1.4 | 1       | 0         | 23.19                 |
|            |                         |            |     | 1       | 3         | 23.15                 |
|            |                         |            |     | 1       | 5         | 23.17                 |
|            |                         |            |     | 3       | 0         | 23.21                 |
|            |                         |            |     | 3       | 1         | 23.03                 |
|            |                         |            |     | 3       | 3         | 23.21                 |
|            |                         |            |     | 6       | 0         | 22.74                 |
|            | 836.5                   | 20525      |     | 1       | 0         | 23.53                 |
|            |                         |            |     | 1       | 3         | 23.66                 |
|            |                         |            |     | 1       | 5         | 23.51                 |
|            |                         |            |     | 3       | 0         | 23.35                 |
|            |                         |            |     | 3       | 1         | 23.37                 |
|            |                         |            |     | 3       | 3         | 23.24                 |
|            |                         |            |     | 6       | 0         | 22.81                 |
|            | 848.3                   | 20643      |     | 1       | 0         | 23.69                 |
|            |                         |            |     | 1       | 3         | 23.71                 |
|            |                         |            |     | 1       | 5         | 23.72                 |
|            |                         |            |     | 3       | 0         | 23.45                 |
|            |                         |            |     | 3       | 1         | 23.49                 |
|            |                         |            |     | 3       | 3         | 23.37                 |
|            |                         |            |     | 6       | 0         | 23.24                 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| 16QAM      | 825.5                   | 20415      | 3  | 1       | 0         | 22.71                 |
|            |                         |            |    | 1       | 8         | 22.66                 |
|            |                         |            |    | 1       | 14        | 22.84                 |
|            |                         |            |    | 8       | 0         | 21.84                 |
|            |                         |            |    | 8       | 4         | 21.85                 |
|            |                         |            |    | 8       | 7         | 22.12                 |
|            |                         |            |    | 15      | 0         | 21.80                 |
|            | 836.5                   | 20525      |    | 1       | 0         | 23.34                 |
|            |                         |            |    | 1       | 8         | 23.55                 |
|            |                         |            |    | 1       | 14        | 23.26                 |
|            |                         |            |    | 8       | 0         | 21.83                 |
|            |                         |            |    | 8       | 4         | 21.95                 |
|            |                         |            |    | 8       | 7         | 21.86                 |
|            |                         |            |    | 15      | 0         | 22.08                 |
|            | 847.5                   | 20635      |    | 1       | 0         | 22.67                 |
|            |                         |            |    | 1       | 8         | 22.60                 |
|            |                         |            |    | 1       | 14        | 22.82                 |
|            |                         |            |    | 8       | 0         | 21.95                 |
|            |                         |            |    | 8       | 4         | 21.99                 |
|            |                         |            |    | 8       | 7         | 22.04                 |
|            |                         |            |    | 15      | 0         | 21.89                 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| QPSK       | 825.5                   | 20415      | 3  | 1       | 0         | 23.47                 |
|            |                         |            |    | 1       | 8         | 23.46                 |
|            |                         |            |    | 1       | 14        | 23.46                 |
|            |                         |            |    | 8       | 0         | 22.85                 |
|            |                         |            |    | 8       | 4         | 22.85                 |
|            |                         |            |    | 8       | 7         | 22.90                 |
|            |                         |            |    | 15      | 0         | 22.82                 |
|            | 836.5                   | 20525      |    | 1       | 0         | 23.61                 |
|            |                         |            |    | 1       | 8         | 23.60                 |
|            |                         |            |    | 1       | 14        | 23.49                 |
|            |                         |            |    | 8       | 0         | 22.77                 |
|            |                         |            |    | 8       | 4         | 22.75                 |
|            |                         |            |    | 8       | 7         | 22.78                 |
|            |                         |            |    | 15      | 0         | 22.72                 |
|            | 847.5                   | 20635      |    | 1       | 0         | 23.65                 |
|            |                         |            |    | 1       | 8         | 23.65                 |
|            |                         |            |    | 1       | 14        | 23.71                 |
|            |                         |            |    | 8       | 0         | 23.10                 |
|            |                         |            |    | 8       | 4         | 22.90                 |
|            |                         |            |    | 8       | 7         | 23.21                 |
|            |                         |            |    | 15      | 0         | 22.88                 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| 16QAM      | 826.5                   | 20425      | 5  | 1       | 0         | 22.28                 |
|            |                         |            |    | 1       | 12        | 22.29                 |
|            |                         |            |    | 1       | 24        | 22.28                 |
|            |                         |            |    | 12      | 0         | 21.74                 |
|            |                         |            |    | 12      | 7         | 22.00                 |
|            |                         |            |    | 12      | 13        | 21.99                 |
|            |                         |            |    | 25      | 0         | 22.15                 |
|            | 836.5                   | 20525      |    | 1       | 0         | 22.74                 |
|            |                         |            |    | 1       | 12        | 22.80                 |
|            |                         |            |    | 1       | 24        | 22.96                 |
|            |                         |            |    | 12      | 0         | 21.60                 |
|            |                         |            |    | 12      | 7         | 21.84                 |
|            |                         |            |    | 12      | 13        | 21.57                 |
|            |                         |            |    | 25      | 0         | 21.78                 |
|            | 846.5                   | 20625      |    | 1       | 0         | 22.58                 |
|            |                         |            |    | 1       | 12        | 22.63                 |
|            |                         |            |    | 1       | 24        | 22.92                 |
|            |                         |            |    | 12      | 0         | 21.91                 |
|            |                         |            |    | 12      | 7         | 21.94                 |
|            |                         |            |    | 12      | 13        | 22.04                 |
|            |                         |            |    | 25      | 0         | 22.02                 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| QPSK       | 826.5                   | 20425      | 5  | 1       | 0         | 23.27                 |
|            |                         |            |    | 1       | 12        | 23.46                 |
|            |                         |            |    | 1       | 24        | 23.31                 |
|            |                         |            |    | 12      | 0         | 22.85                 |
|            |                         |            |    | 12      | 7         | 22.75                 |
|            |                         |            |    | 12      | 13        | 22.89                 |
|            |                         |            |    | 25      | 0         | 22.81                 |
|            | 836.5                   | 20525      |    | 1       | 0         | 23.19                 |
|            |                         |            |    | 1       | 12        | 23.10                 |
|            |                         |            |    | 1       | 24        | 23.27                 |
|            |                         |            |    | 12      | 0         | 22.80                 |
|            |                         |            |    | 12      | 7         | 22.84                 |
|            |                         |            |    | 12      | 13        | 22.70                 |
|            |                         |            |    | 25      | 0         | 22.76                 |
|            | 846.5                   | 20625      |    | 1       | 0         | 23.64                 |
|            |                         |            |    | 1       | 12        | 23.52                 |
|            |                         |            |    | 1       | 24        | 23.41                 |
|            |                         |            |    | 12      | 0         | 22.92                 |
|            |                         |            |    | 12      | 7         | 23.10                 |
|            |                         |            |    | 12      | 13        | 22.90                 |
|            |                         |            |    | 25      | 0         | 22.95                 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| 16QAM      | 829                     | 20450      | 10 | 1       | 0         | 22.99                 |
|            |                         |            |    | 1       | 25        | 22.89                 |
|            |                         |            |    | 1       | 49        | 22.97                 |
|            |                         |            |    | 25      | 0         | 22.24                 |
|            |                         |            |    | 25      | 12        | 21.78                 |
|            |                         |            |    | 25      | 25        | 21.95                 |
|            |                         |            |    | 50      | 0         | 21.63                 |
|            | 836.5                   | 20525      |    | 1       | 0         | 23.73                 |
|            |                         |            |    | 1       | 25        | 23.65                 |
|            |                         |            |    | 1       | 49        | 23.63                 |
|            |                         |            |    | 25      | 0         | 22.02                 |
|            |                         |            |    | 25      | 12        | 21.95                 |
|            |                         |            |    | 25      | 25        | 22.25                 |
|            |                         |            |    | 50      | 0         | 21.90                 |
|            | 844                     | 20600      |    | 1       | 0         | 23.57                 |
|            |                         |            |    | 1       | 25        | 23.33                 |
|            |                         |            |    | 1       | 49        | 23.78                 |
|            |                         |            |    | 25      | 0         | 21.81                 |
|            |                         |            |    | 25      | 12        | 21.61                 |
|            |                         |            |    | 25      | 25        | 22.06                 |
|            |                         |            |    | 50      | 0         | 21.98                 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| QPSK       | 829                     | 20450      | 10 | 1       | 0         | 23.26                 |
|            |                         |            |    | 1       | 25        | 23.31                 |
|            |                         |            |    | 1       | 49        | 23.34                 |
|            |                         |            |    | 25      | 0         | 22.86                 |
|            |                         |            |    | 25      | 12        | 22.71                 |
|            |                         |            |    | 25      | 25        | 22.86                 |
|            |                         |            |    | 50      | 0         | 22.73                 |
|            | 836.5                   | 20525      |    | 1       | 0         | 23.42                 |
|            |                         |            |    | 1       | 25        | 23.49                 |
|            |                         |            |    | 1       | 49        | 23.41                 |
|            |                         |            |    | 25      | 0         | 22.81                 |
|            |                         |            |    | 25      | 12        | 22.65                 |
|            |                         |            |    | 25      | 25        | 22.78                 |
|            |                         |            |    | 50      | 0         | 22.96                 |
|            | 844                     | 20600      |    | 1       | 0         | 23.34                 |
|            |                         |            |    | 1       | 25        | 23.39                 |
|            |                         |            |    | 1       | 49        | 23.44                 |
|            |                         |            |    | 25      | 0         | 22.78                 |
|            |                         |            |    | 25      | 12        | 22.81                 |
|            |                         |            |    | 25      | 25        | 22.90                 |
|            |                         |            |    | 50      | 0         | 22.86                 |

## 2 Occupied Bandwidth

| Band | Carrier frequency (MHz) | Channel | BW (MHz) | RB Size | RB Offset | Bandwidth of 99% Power (MHz) |        |        |        |        |     |
|------|-------------------------|---------|----------|---------|-----------|------------------------------|--------|--------|--------|--------|-----|
|      |                         |         |          |         |           | QPSK                         |        | 16-QAM |        | 64-QAM |     |
| 5    | 824.7                   | 20407   | 1.4      | 6       | 0         | 1.082                        | Fig.1  | 1.082  | Fig.2  | ---    | --- |
|      | 836.5                   | 20525   |          | 6       | 0         | 1.082                        | Fig.3  | 1.082  | Fig.4  | ---    | --- |
|      | 848.3                   | 20643   |          | 6       | 0         | 1.088                        | Fig.5  | 1.082  | Fig.6  | ---    | --- |
|      | 825.5                   | 20415   | 3        | 15      | 0         | 2.683                        | Fig.7  | 2.683  | Fig.8  | ---    | --- |
|      | 836.5                   | 20525   |          | 15      | 0         | 2.683                        | Fig.9  | 2.696  | Fig.10 | ---    | --- |
|      | 847.5                   | 20635   |          | 15      | 0         | 2.683                        | Fig.11 | 2.696  | Fig.12 | ---    | --- |
|      | 826.5                   | 20425   | 5        | 25      | 0         | 4.472                        | Fig.13 | 4.450  | Fig.14 | ---    | --- |
|      | 836.5                   | 20525   |          | 25      | 0         | 4.472                        | Fig.15 | 4.472  | Fig.16 | ---    | --- |
|      | 846.5                   | 20625   |          | 25      | 0         | 4.472                        | Fig.17 | 4.472  | Fig.18 | ---    | --- |
|      | 829                     | 20450   | 10       | 50      | 0         | 8.944                        | Fig.19 | 8.944  | Fig.20 | ---    | --- |
|      | 836.5                   | 20525   |          | 50      | 0         | 8.944                        | Fig.21 | 8.944  | Fig.22 | ---    | --- |
|      | 844                     | 20600   |          | 50      | 0         | 8.944                        | Fig.23 | 8.944  | Fig.24 | ---    | --- |

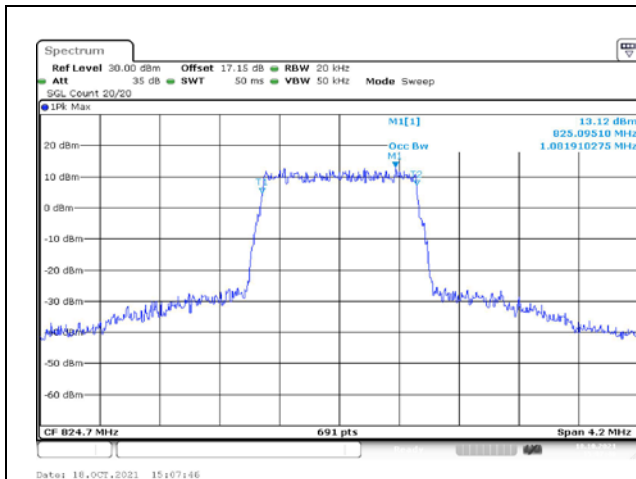


Fig.1

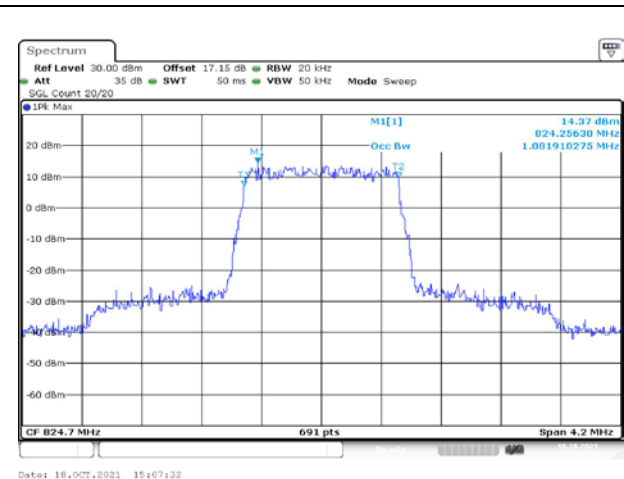


Fig.2

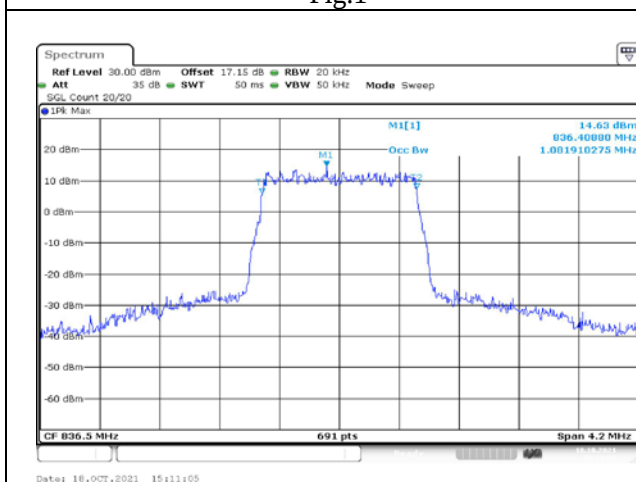


Fig.3

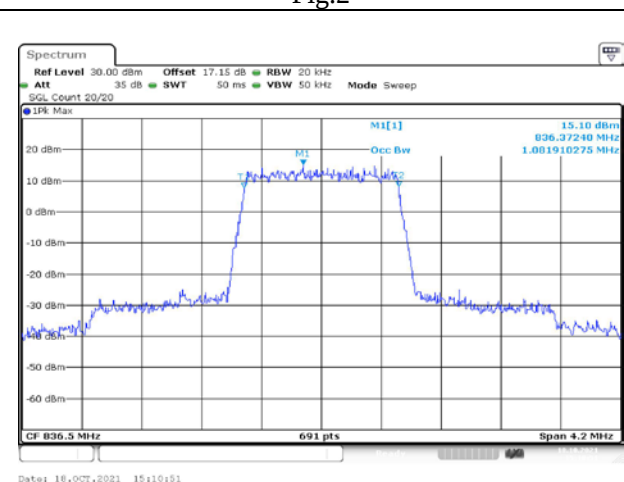


Fig.4

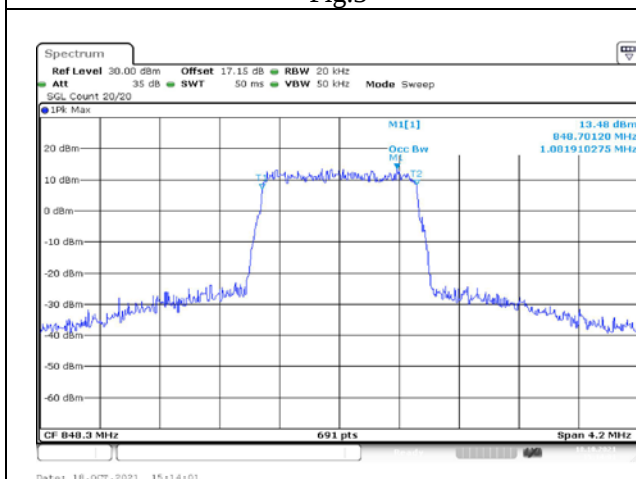


Fig.5

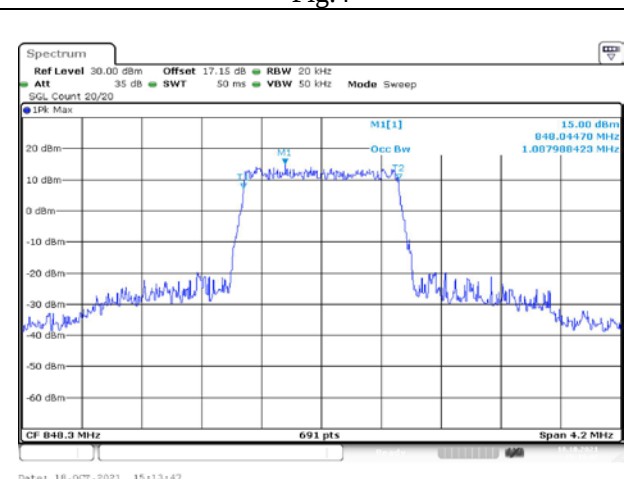
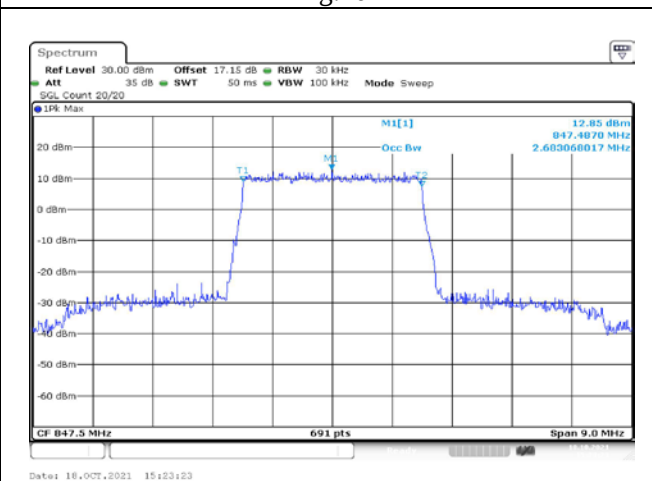
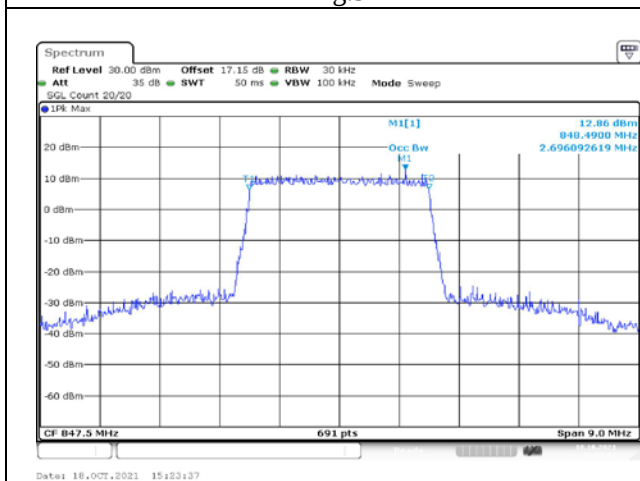
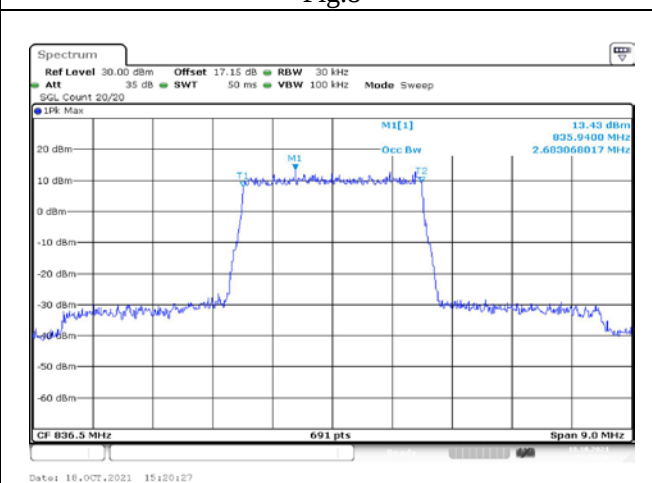
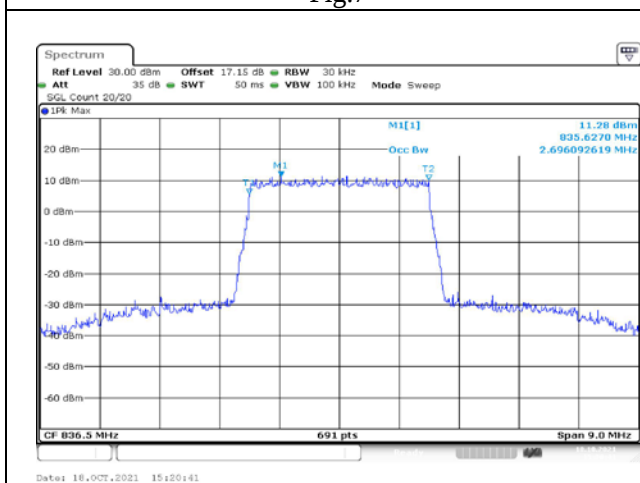
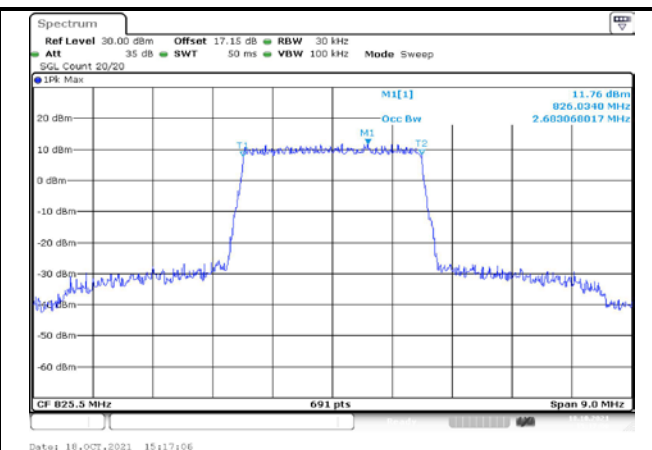
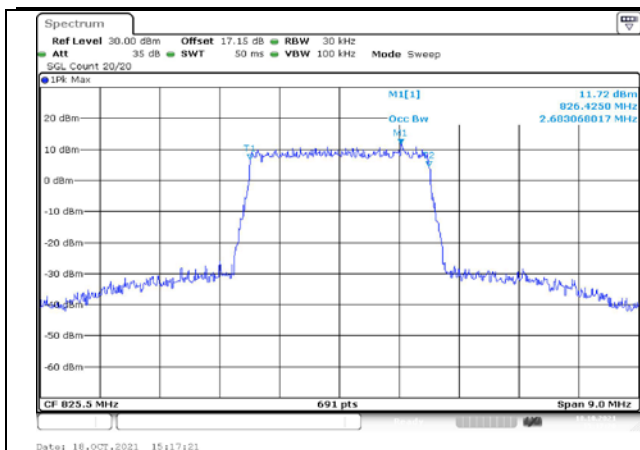
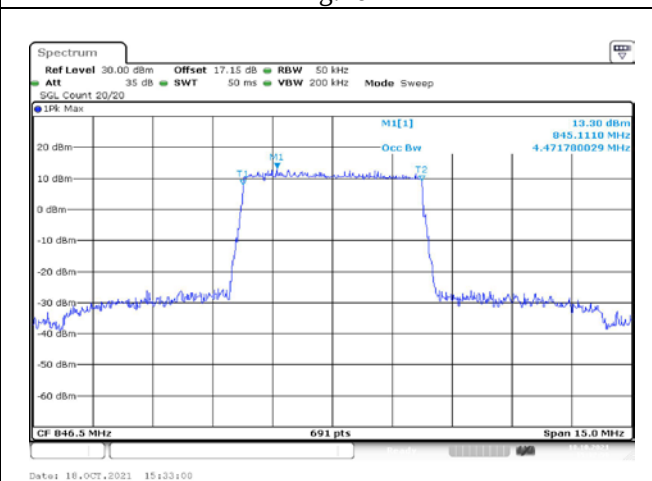
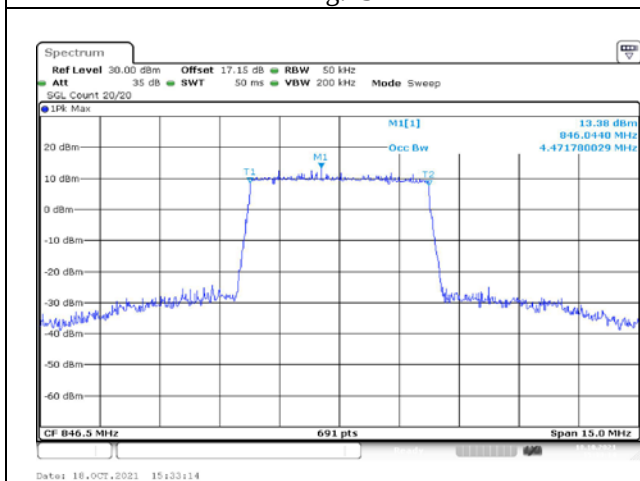
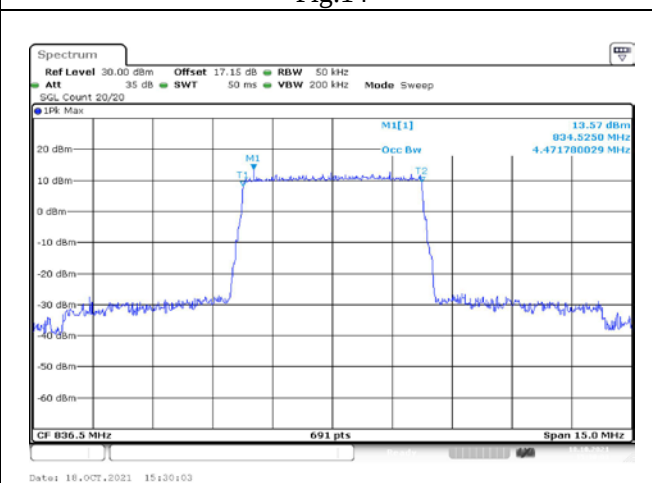
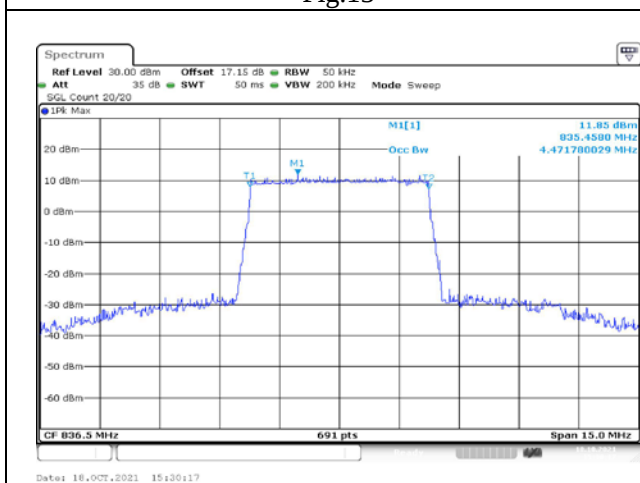
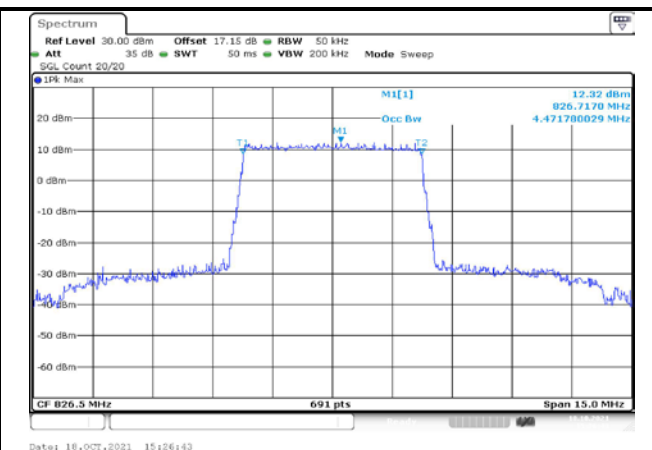
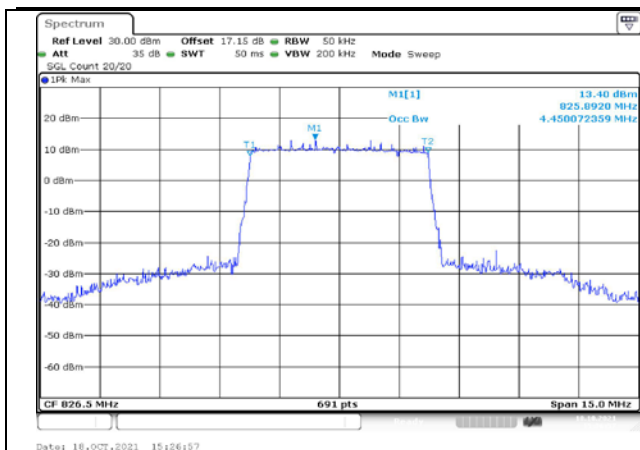
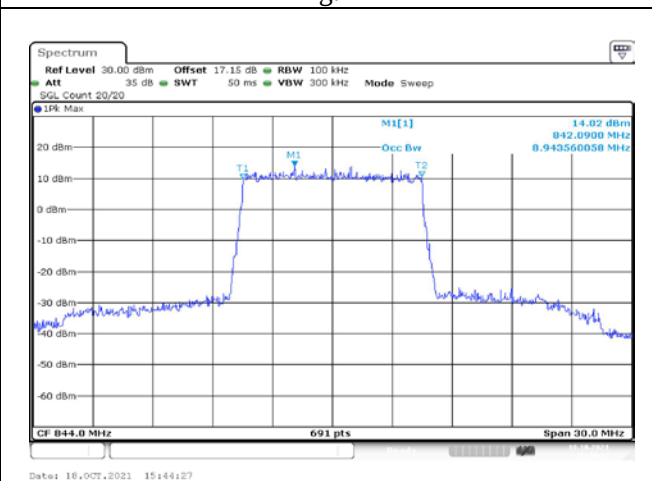
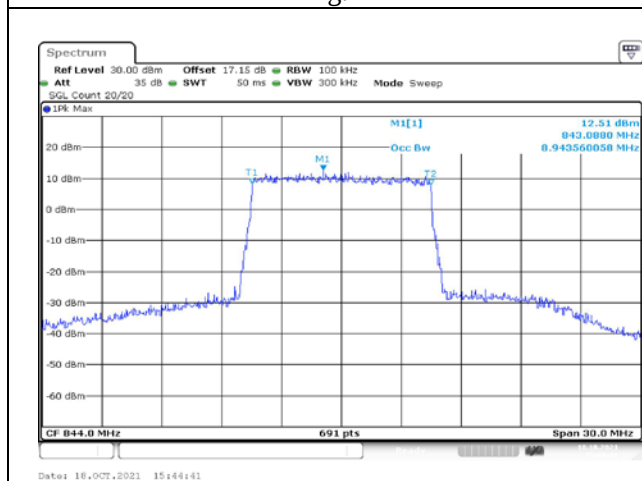
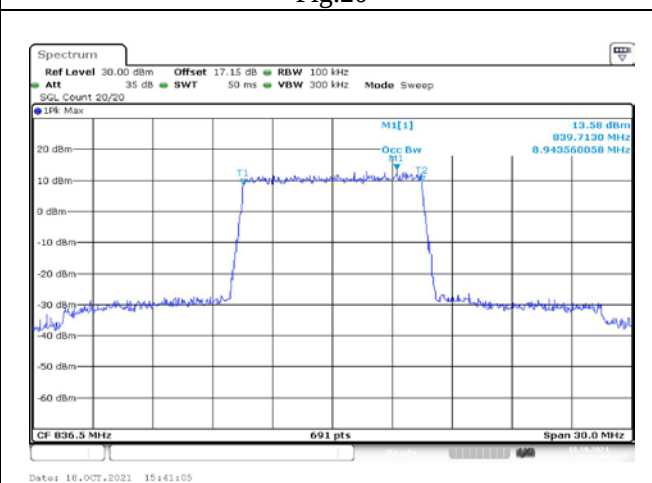
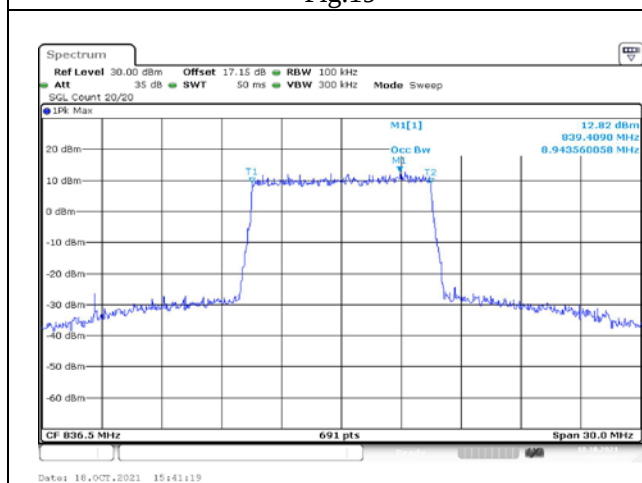
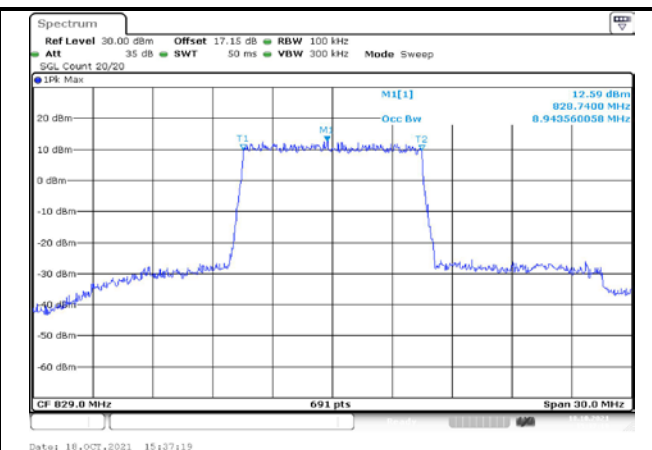
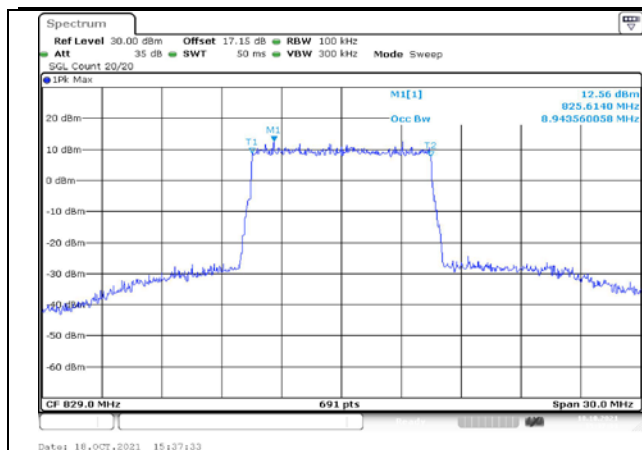


Fig.6







### 3 Emission Bandwidth

| Band | Carrier frequency (MHz) | Channel | BW (MHz) | RB Size | RB Offset | Bandwidth of -26dB transmitter power (MHz) |        |        |        |        |     |
|------|-------------------------|---------|----------|---------|-----------|--------------------------------------------|--------|--------|--------|--------|-----|
|      |                         |         |          |         |           | QPSK                                       |        | 16-QAM |        | 64-QAM |     |
| 5    | 824.7                   | 20407   | 1.4      | 6       | 0         | 1.228                                      | Fig.1  | 1.234  | Fig.2  | ---    | --- |
|      | 836.5                   | 20525   |          | 6       | 0         | 1.228                                      | Fig.3  | 1.216  | Fig.4  | ---    | --- |
|      | 848.3                   | 20643   |          | 6       | 0         | 1.222                                      | Fig.5  | 1.228  | Fig.6  | ---    | --- |
|      | 825.5                   | 20415   | 3        | 15      | 0         | 2.970                                      | Fig.7  | 2.970  | Fig.8  | ---    | --- |
|      | 836.5                   | 20525   |          | 15      | 0         | 2.970                                      | Fig.9  | 2.996  | Fig.10 | ---    | --- |
|      | 847.5                   | 20635   |          | 15      | 0         | 2.970                                      | Fig.11 | 2.957  | Fig.12 | ---    | --- |
|      | 826.5                   | 20425   | 5        | 25      | 0         | 4.906                                      | Fig.13 | 4.863  | Fig.14 | ---    | --- |
|      | 836.5                   | 20525   |          | 25      | 0         | 4.906                                      | Fig.15 | 4.863  | Fig.16 | ---    | --- |
|      | 846.5                   | 20625   |          | 25      | 0         | 4.906                                      | Fig.17 | 4.863  | Fig.18 | ---    | --- |
|      | 829                     | 20450   | 10       | 50      | 0         | 9.768                                      | Fig.19 | 9.682  | Fig.20 | ---    | --- |
|      | 836.5                   | 20525   |          | 50      | 0         | 9.551                                      | Fig.21 | 9.682  | Fig.22 | ---    | --- |
|      | 844                     | 20600   |          | 50      | 0         | 9.725                                      | Fig.23 | 9.595  | Fig.24 | ---    | --- |

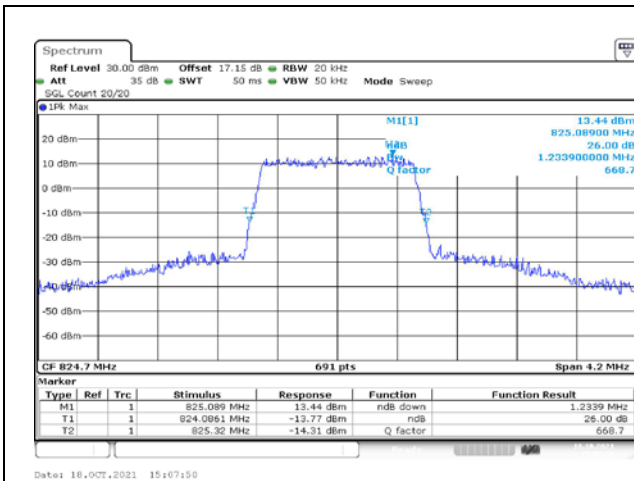


Fig.1

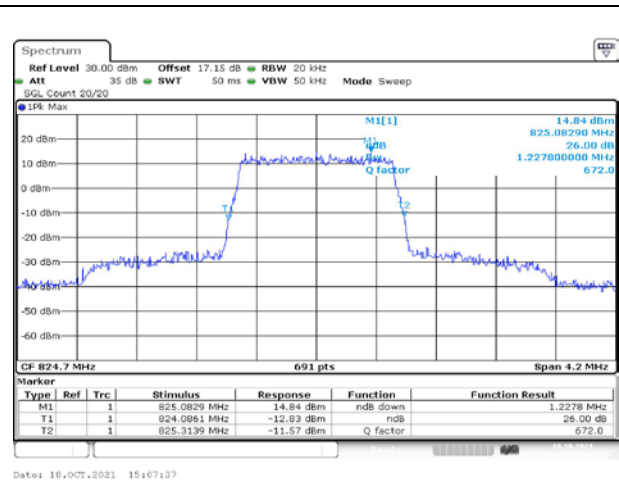


Fig.2

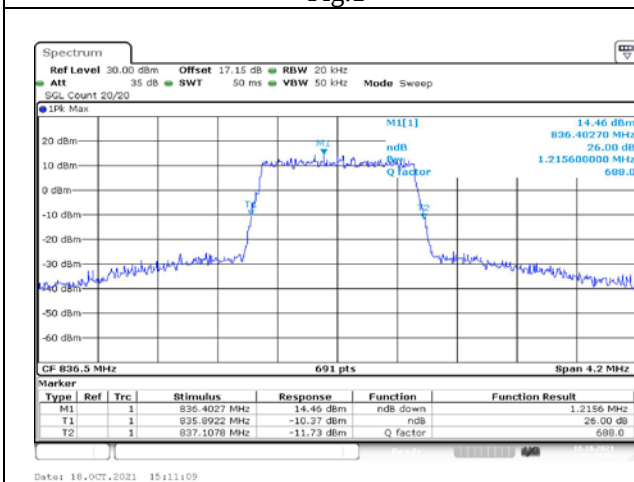


Fig.3

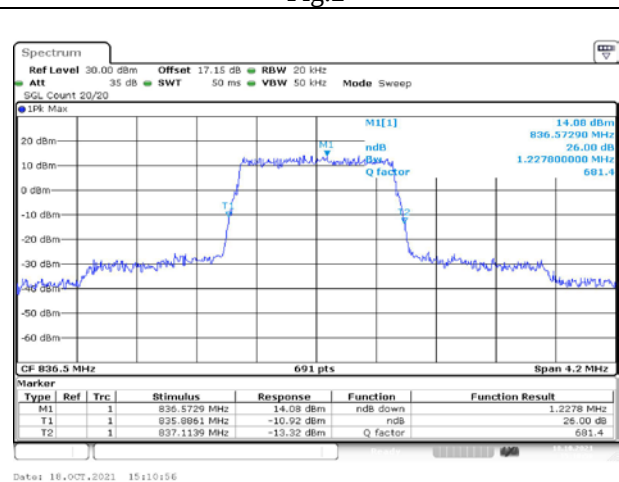


Fig.4

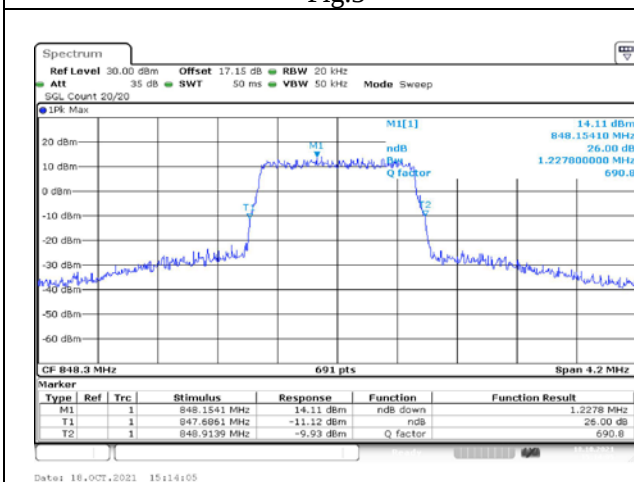


Fig.5

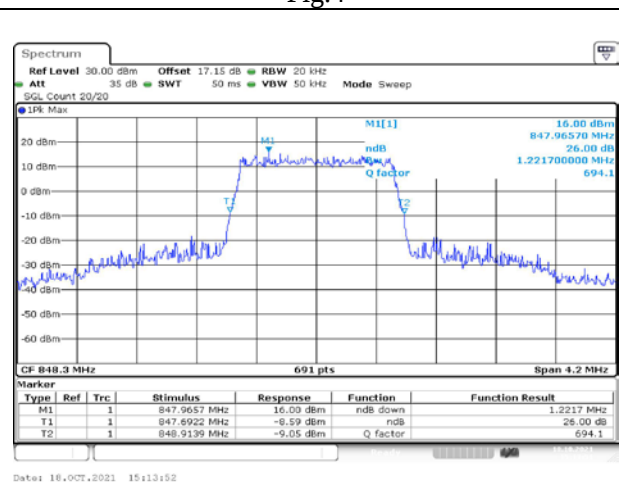


Fig.6

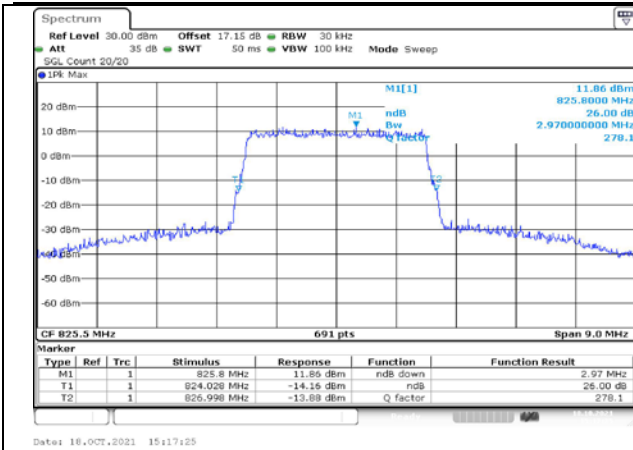


Fig.7

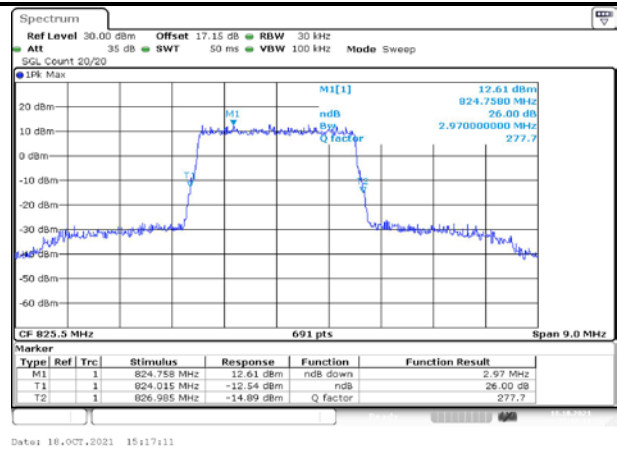


Fig.8

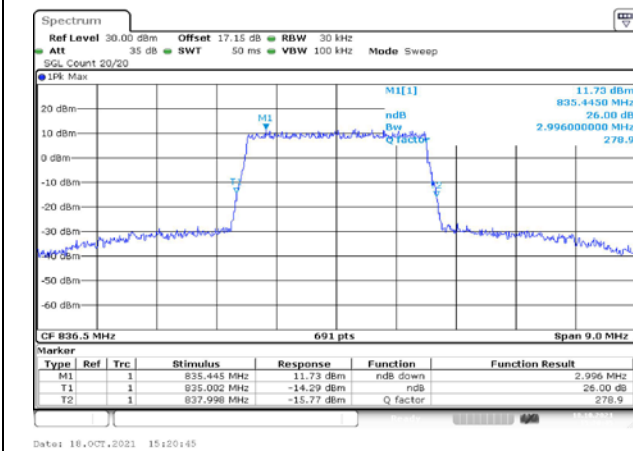


Fig.9

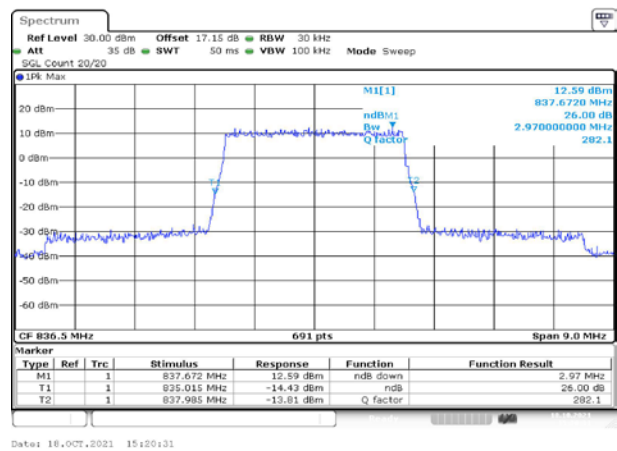


Fig.10

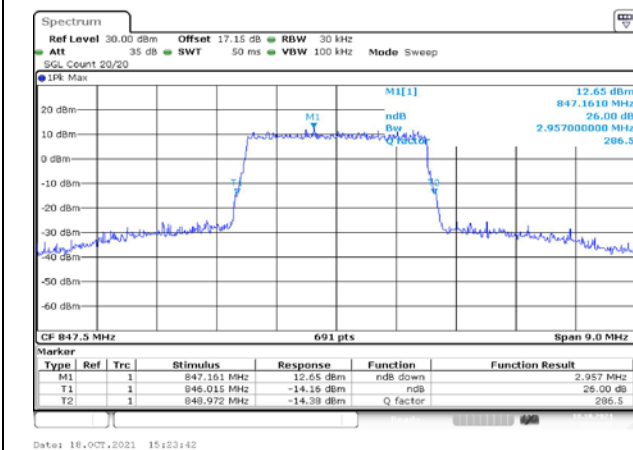


Fig.11

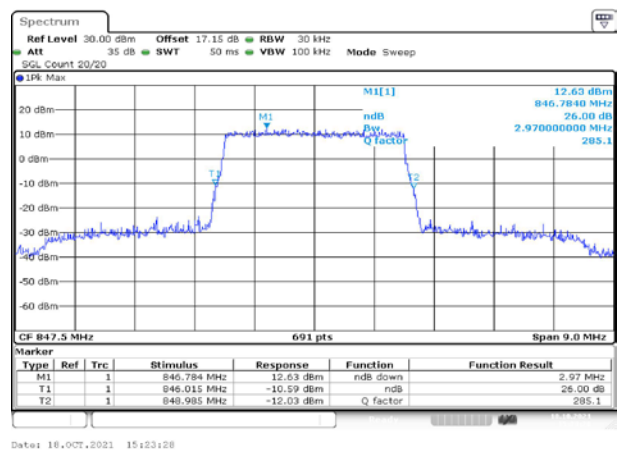


Fig.12

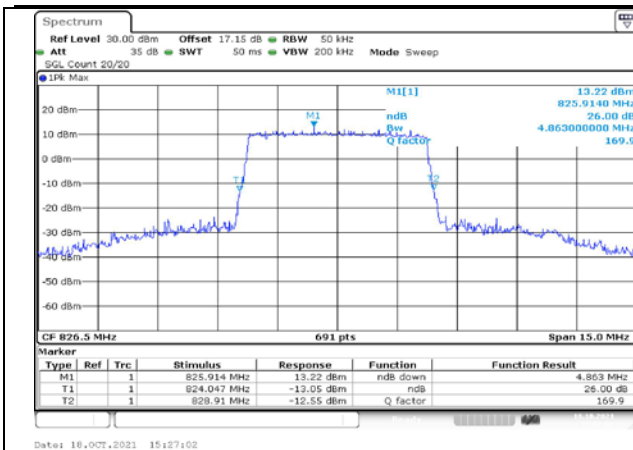


Fig.13

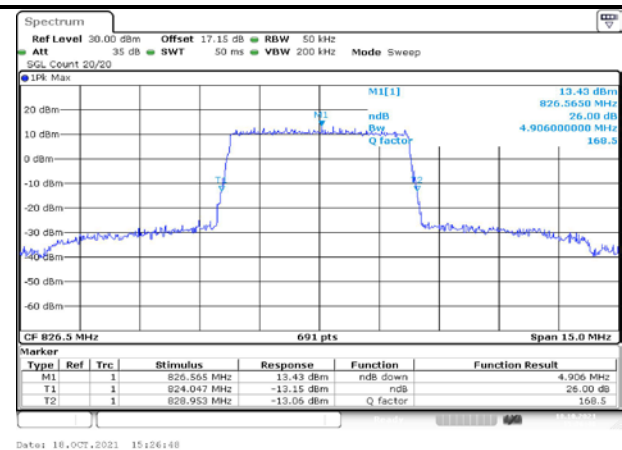


Fig.14

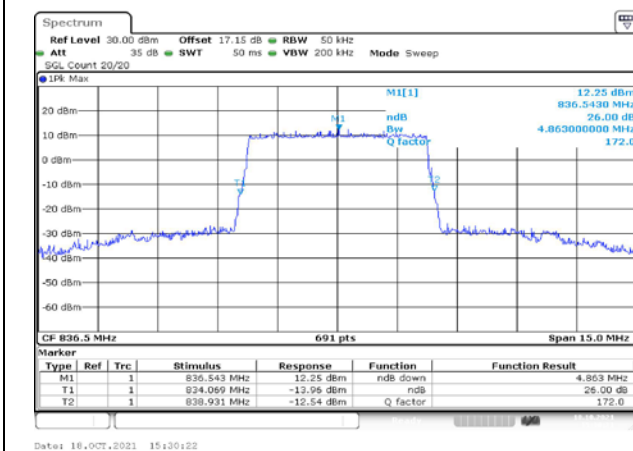


Fig.15

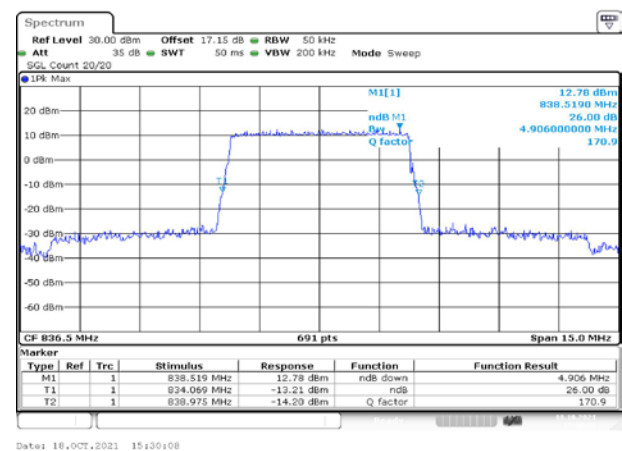


Fig.16

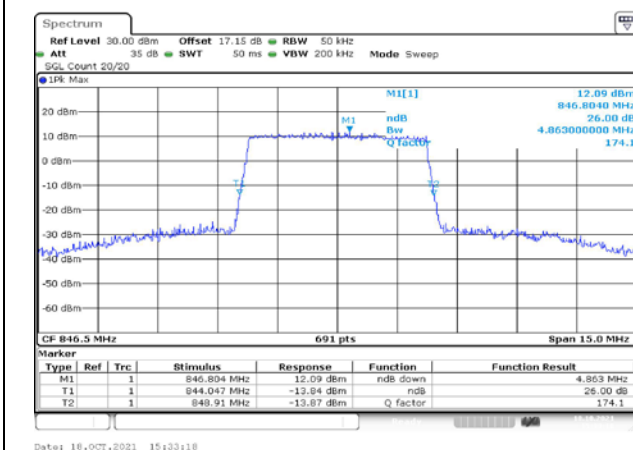


Fig.17

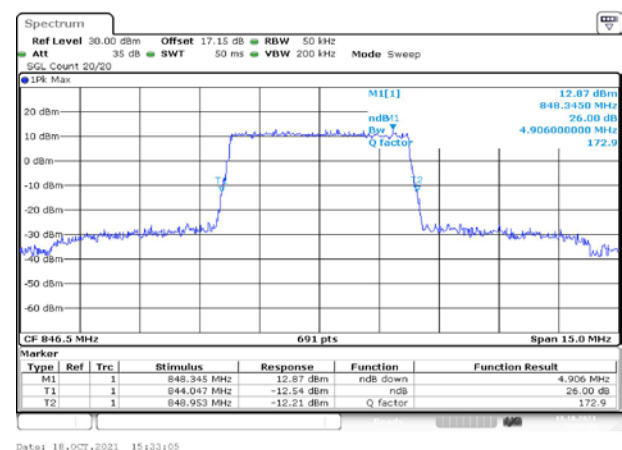


Fig.18

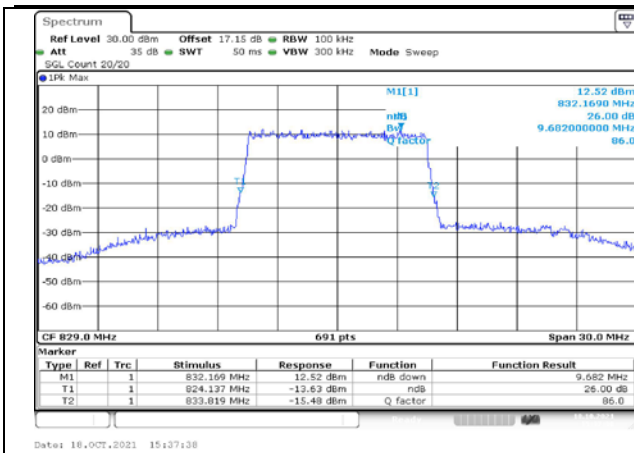


Fig.19

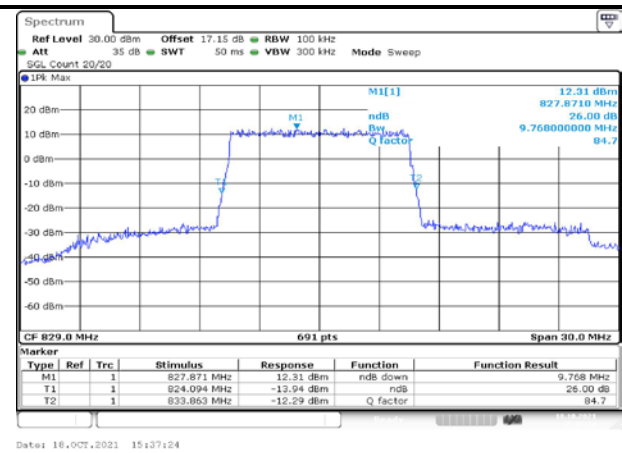


Fig.20

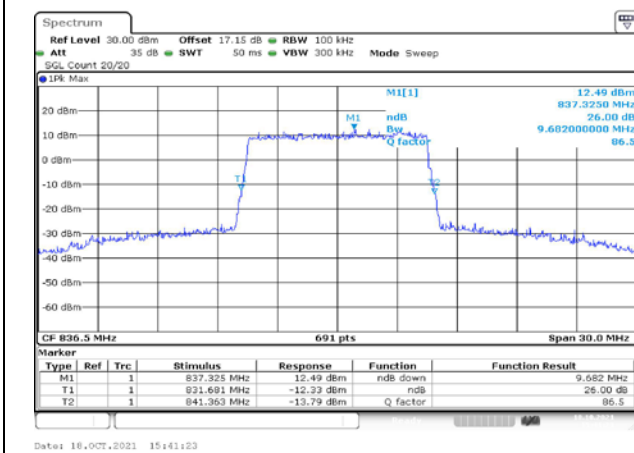


Fig.21

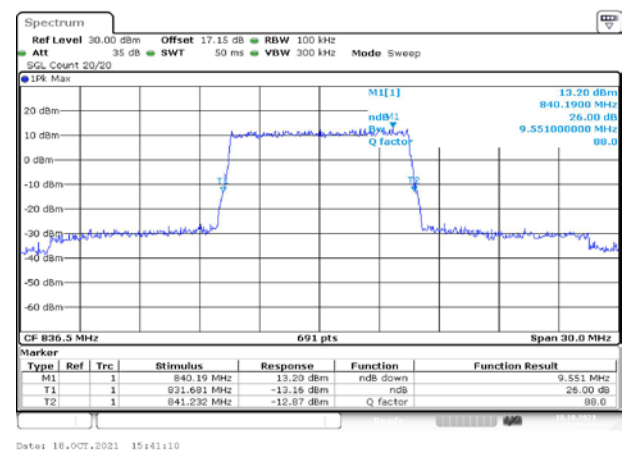


Fig.22

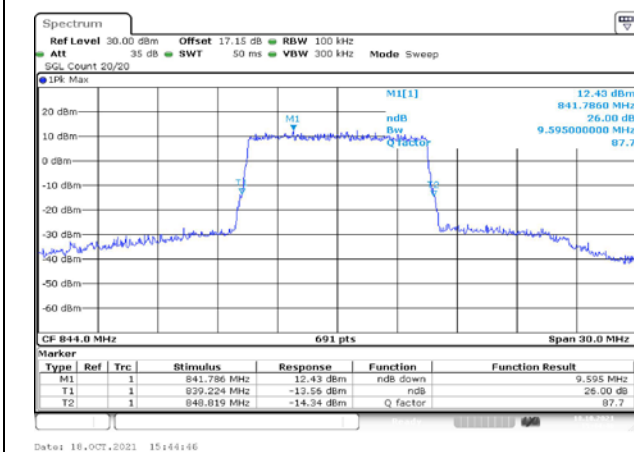


Fig.23

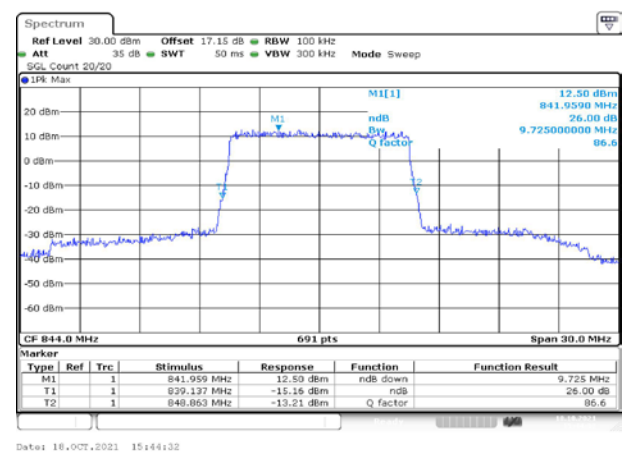


Fig.24

#### 4 Peak-Average Ratio

| Band | Carrier frequency (MHz) | Channel | BW (MHz) | RB Size | RB Offset | QPSK   | 16-QAM | 64-QAM |
|------|-------------------------|---------|----------|---------|-----------|--------|--------|--------|
| 5    | 824.7                   | 20407   | 1.4      | 1       | 5         | Fig.1  | Fig.2  | ---    |
|      | 824.7                   | 20407   |          | 6       | 0         | Fig.3  | Fig.4  | ---    |
|      | 836.5                   | 20525   |          | 1       | 5         | Fig.5  | Fig.6  | ---    |
|      | 836.5                   | 20525   |          | 6       | 0         | Fig.7  | Fig.8  | ---    |
|      | 848.3                   | 20643   |          | 1       | 5         | Fig.9  | Fig.10 | ---    |
|      | 848.3                   | 20643   |          | 6       | 0         | Fig.11 | Fig.12 | ---    |
|      | 825.5                   | 20415   | 3        | 1       | 14        | Fig.13 | Fig.14 | ---    |
|      | 825.5                   | 20415   |          | 15      | 0         | Fig.15 | Fig.16 | ---    |
|      | 836.5                   | 20525   |          | 1       | 14        | Fig.17 | Fig.18 | ---    |
|      | 836.5                   | 20525   |          | 15      | 0         | Fig.19 | Fig.20 | ---    |
|      | 847.5                   | 20635   |          | 1       | 14        | Fig.21 | Fig.22 | ---    |
|      | 847.5                   | 20635   |          | 15      | 0         | Fig.23 | Fig.24 | ---    |
|      | 826.5                   | 20425   | 5        | 1       | 24        | Fig.25 | Fig.26 | ---    |
|      | 826.5                   | 20425   |          | 25      | 0         | Fig.27 | Fig.28 | ---    |
|      | 836.5                   | 20525   |          | 1       | 24        | Fig.29 | Fig.30 | ---    |
|      | 836.5                   | 20525   |          | 25      | 0         | Fig.31 | Fig.32 | ---    |
|      | 846.5                   | 20625   |          | 1       | 24        | Fig.33 | Fig.34 | ---    |
|      | 846.5                   | 20625   |          | 25      | 0         | Fig.35 | Fig.36 | ---    |
|      | 829                     | 20450   | 10       | 1       | 49        | Fig.37 | Fig.38 | ---    |
|      | 829                     | 20450   |          | 50      | 0         | Fig.39 | Fig.40 | ---    |
|      | 836.5                   | 20525   |          | 1       | 49        | Fig.41 | Fig.42 | ---    |
|      | 836.5                   | 20525   |          | 50      | 0         | Fig.43 | Fig.44 | ---    |
|      | 844                     | 20600   |          | 1       | 49        | Fig.45 | Fig.46 | ---    |
|      | 844                     | 20600   |          | 50      | 0         | Fig.47 | Fig.48 | ---    |

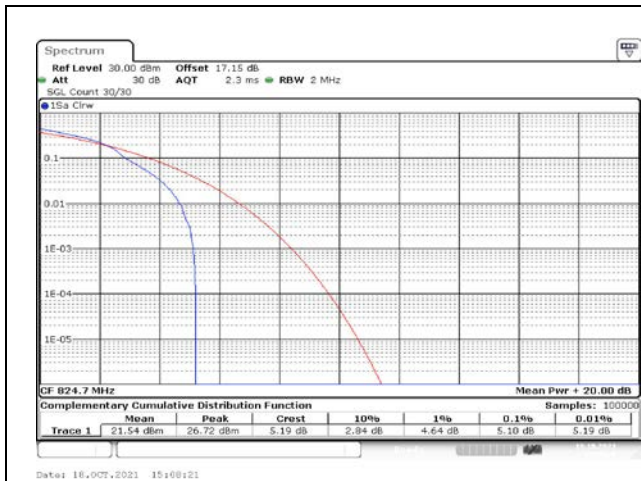


Fig.1

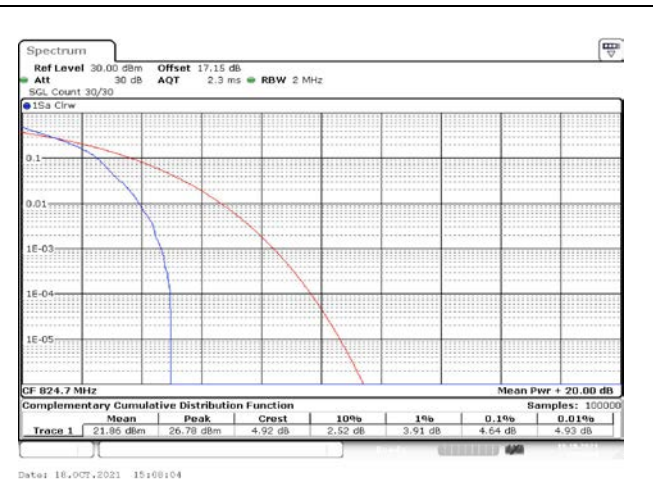


Fig.2

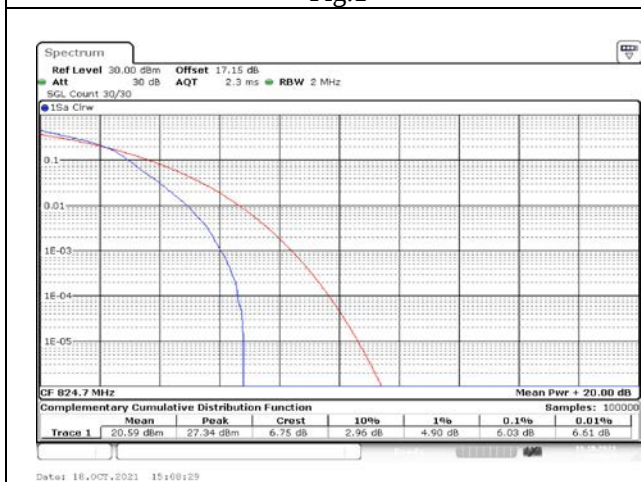


Fig.3

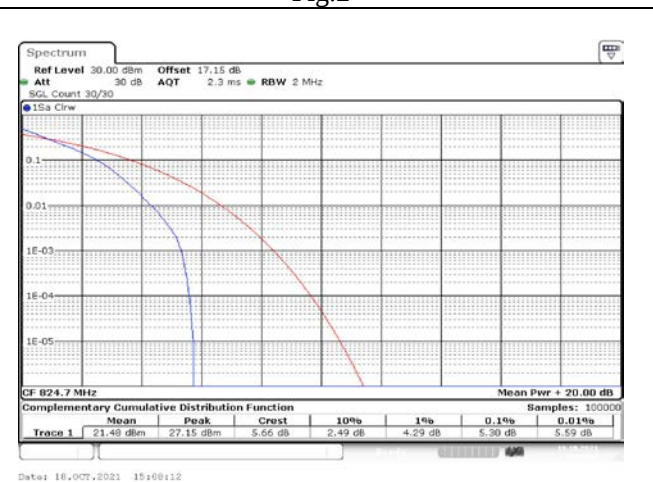


Fig.4

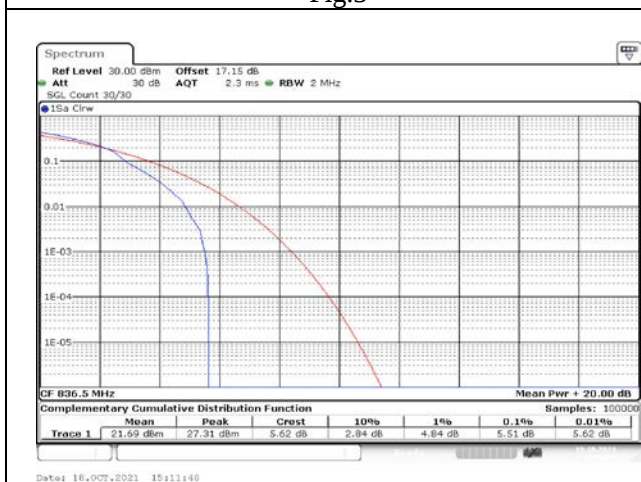


Fig.5

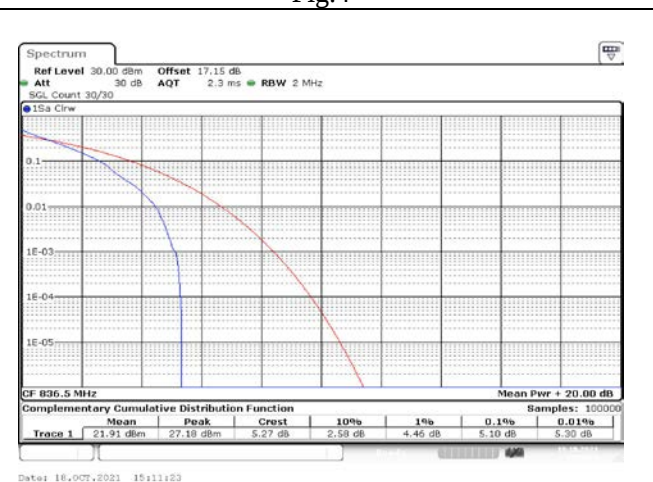


Fig.6

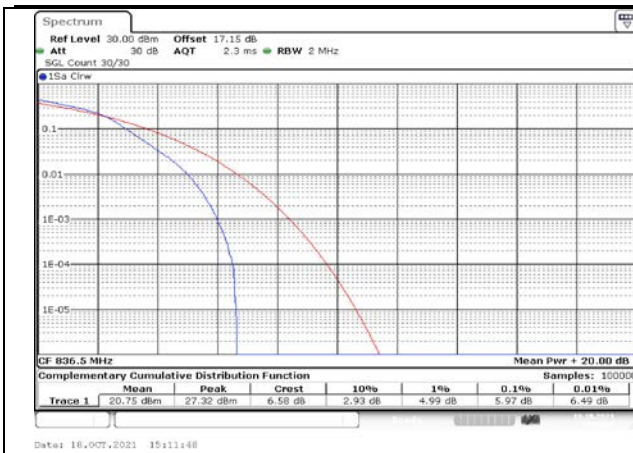


Fig.7

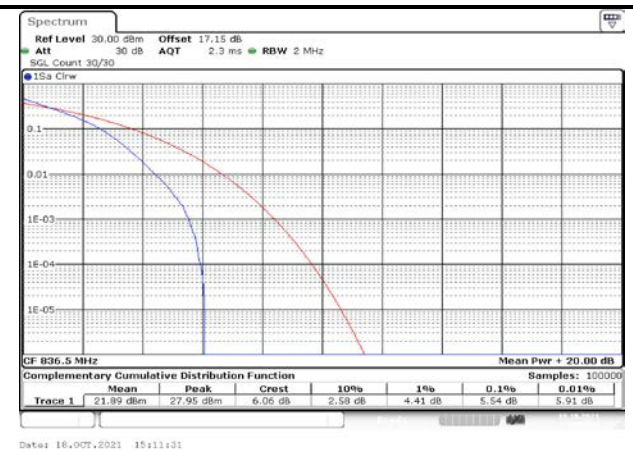


Fig.8

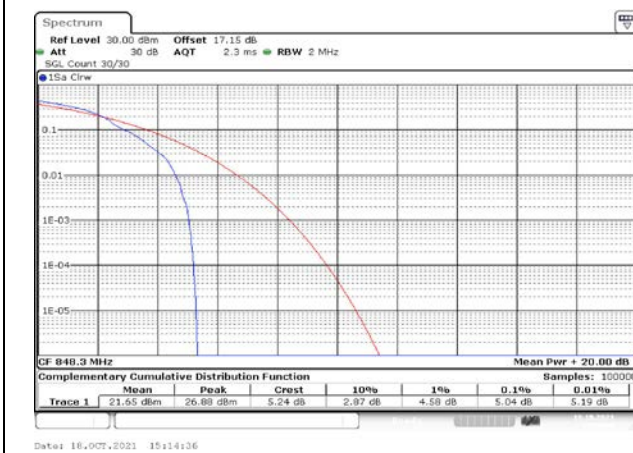


Fig.9

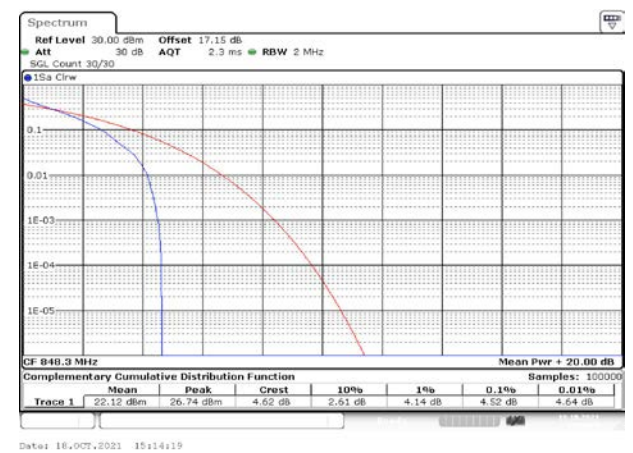


Fig.10

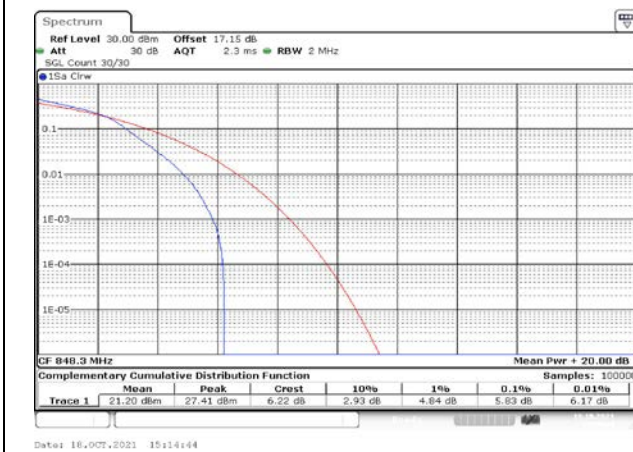


Fig.11

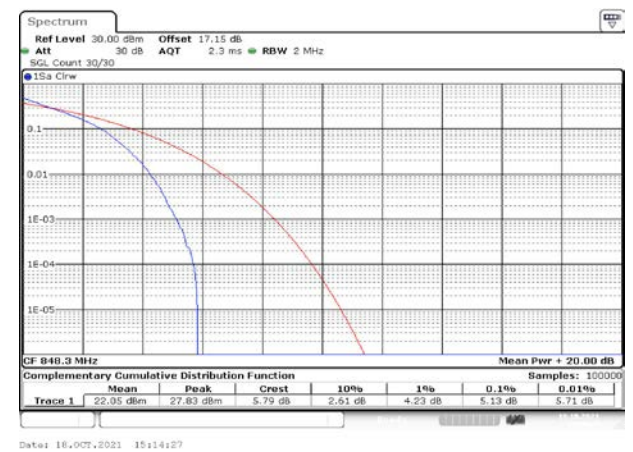


Fig.12

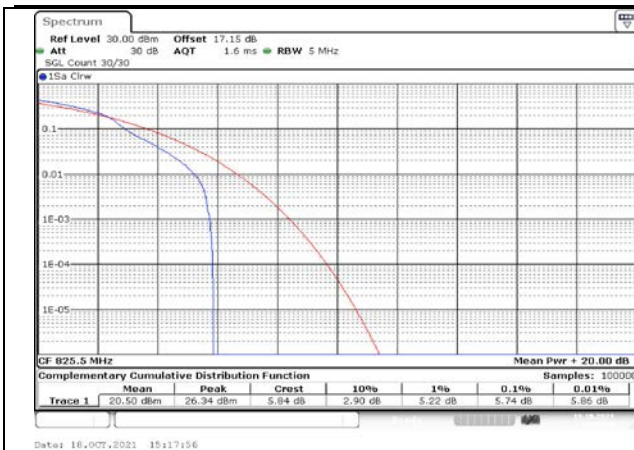


Fig.13

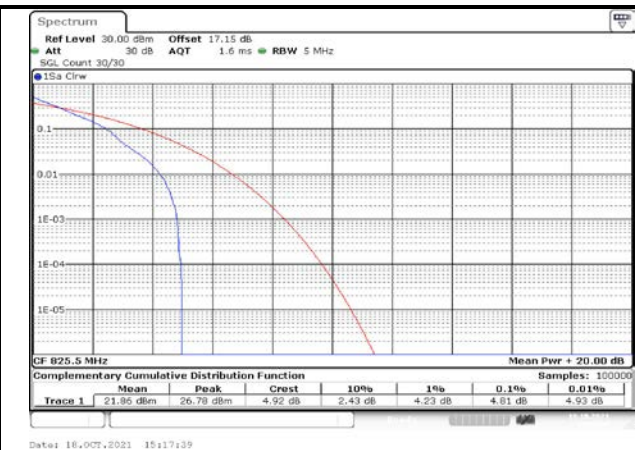


Fig.14

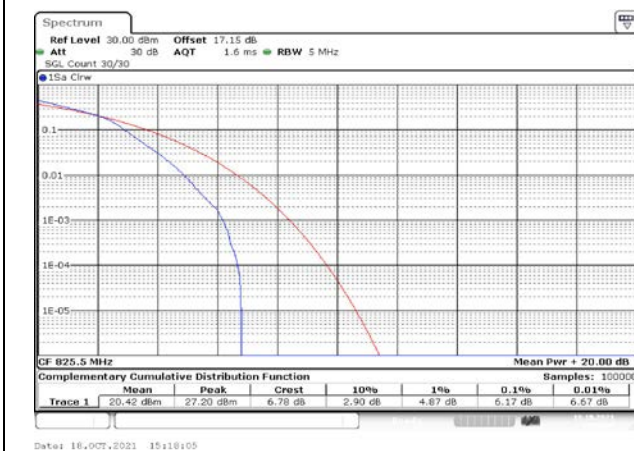


Fig.15

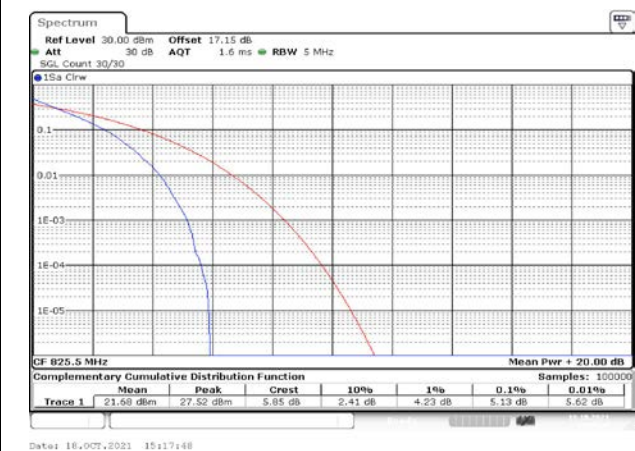


Fig.16

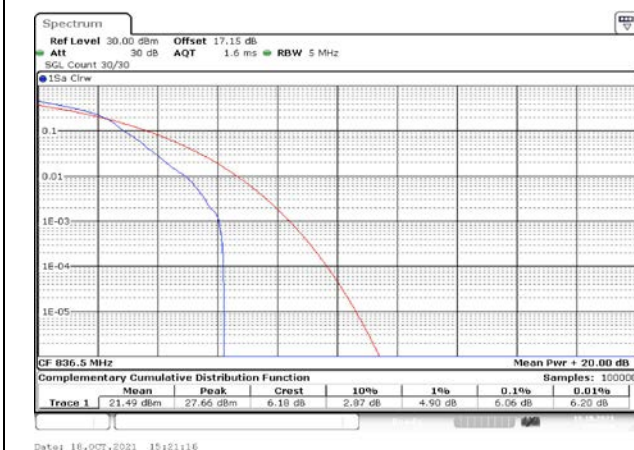


Fig.17

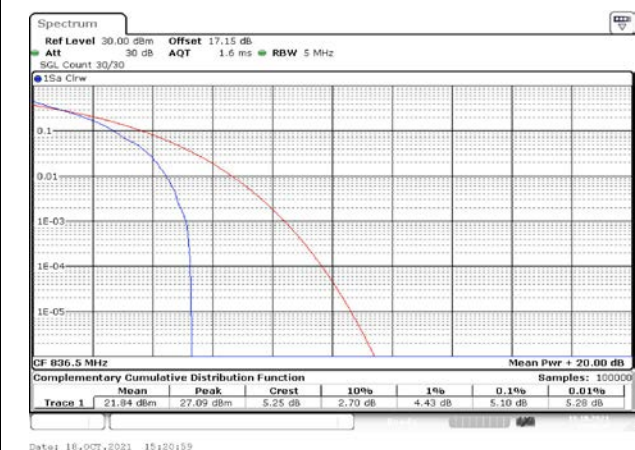


Fig.18

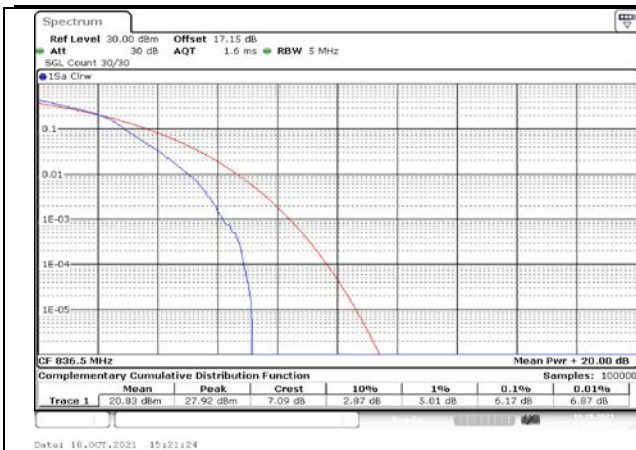


Fig.19

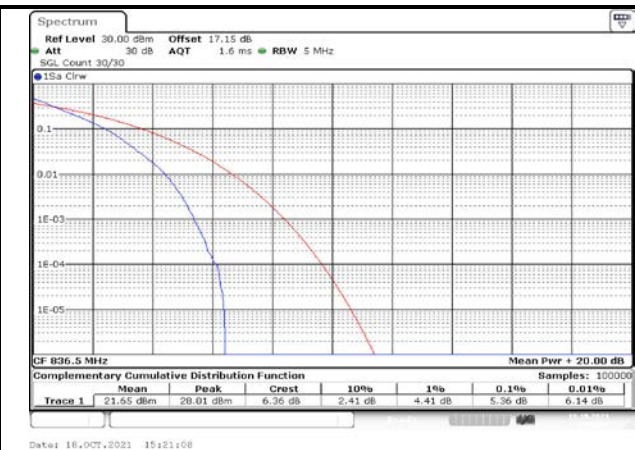


Fig.20

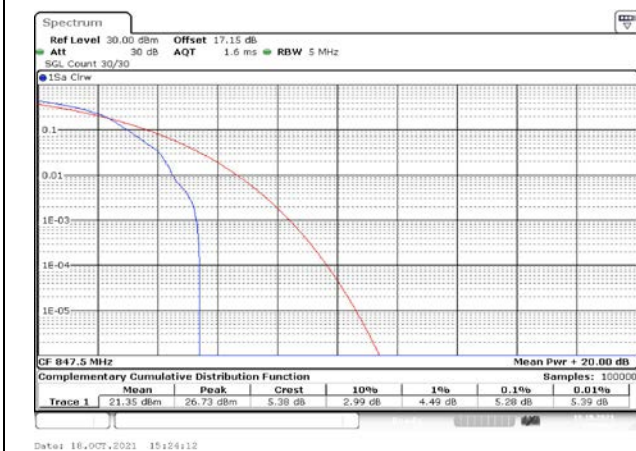


Fig.21

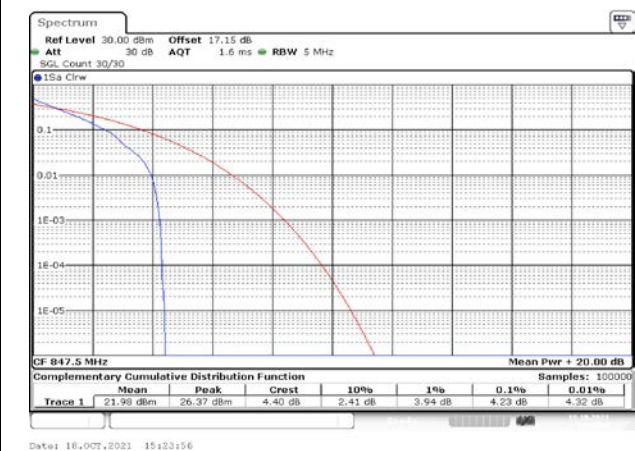


Fig.22

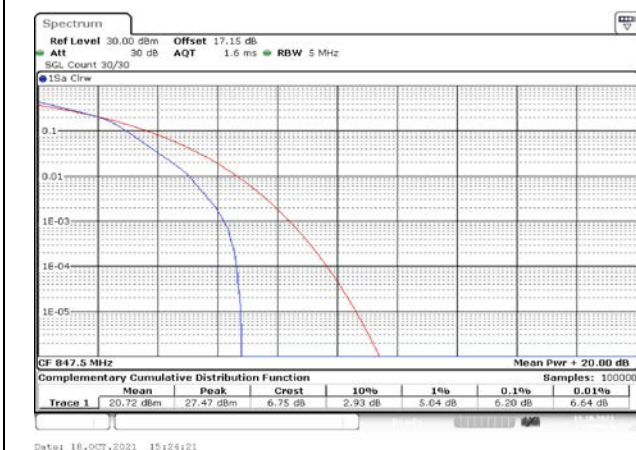


Fig.23

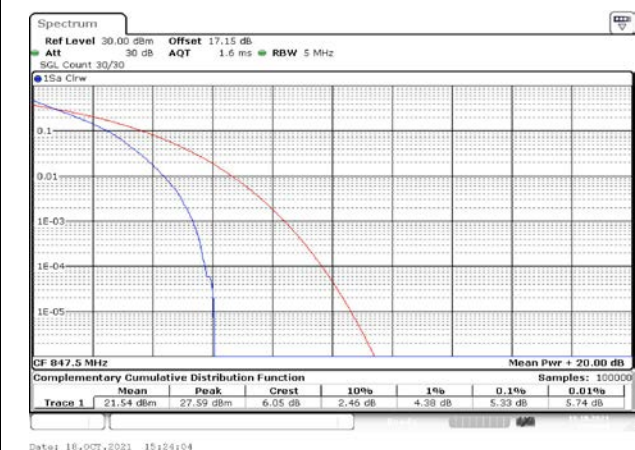


Fig.24

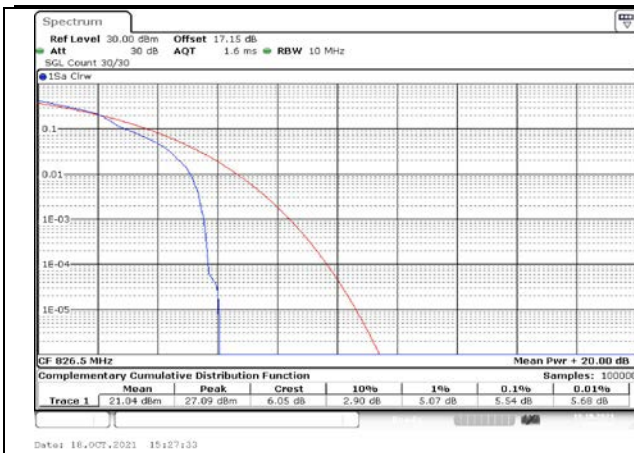


Fig.25

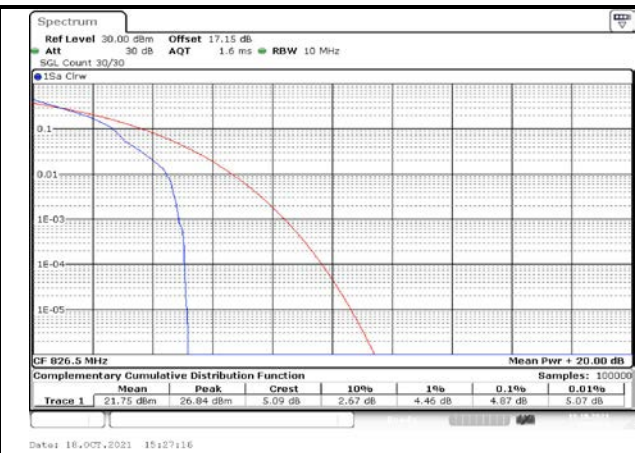


Fig.26

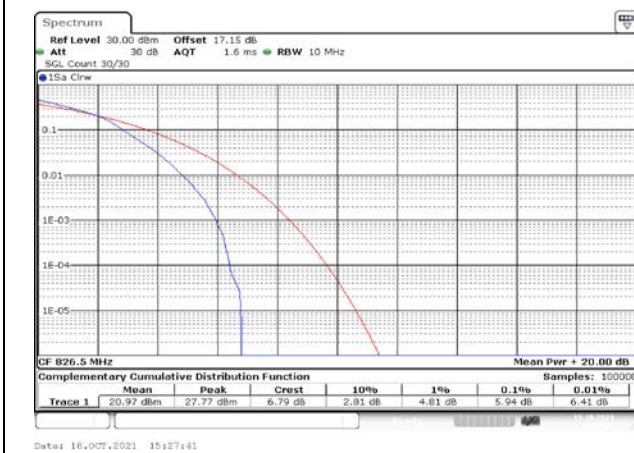


Fig.27

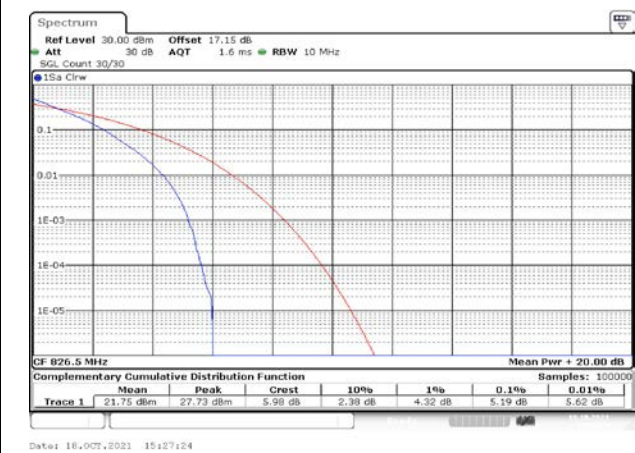


Fig.28

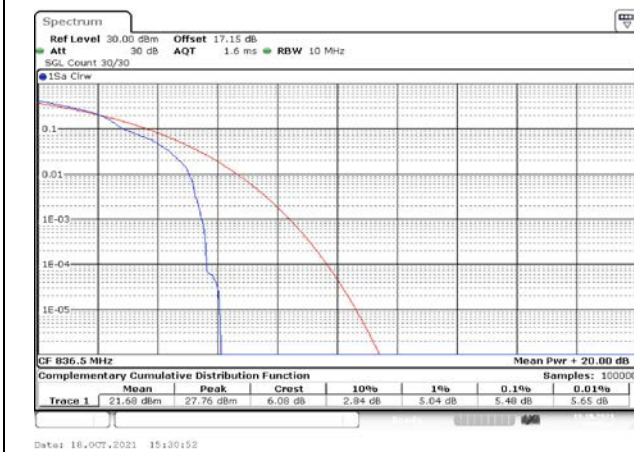


Fig.29

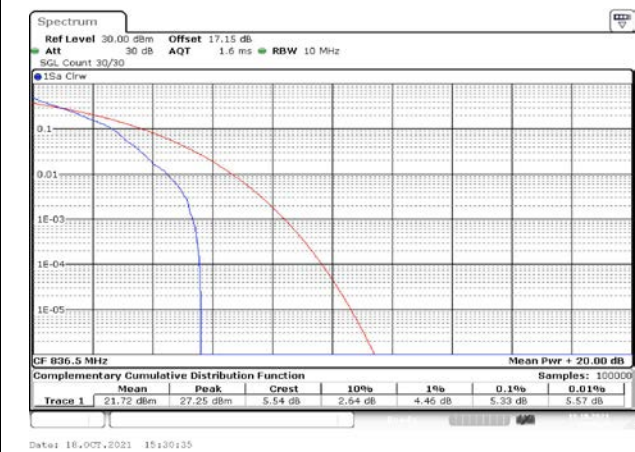


Fig.30

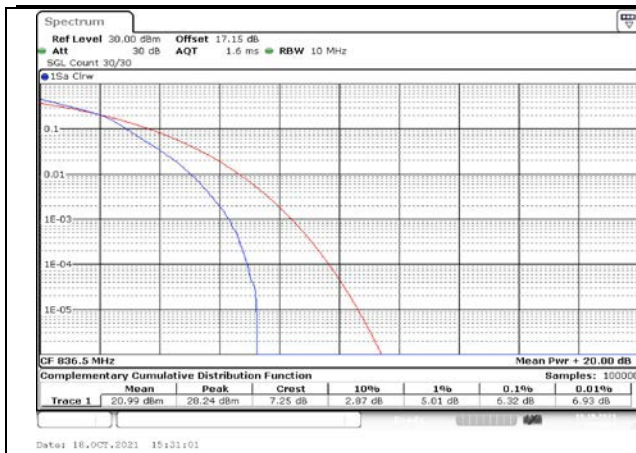


Fig.31

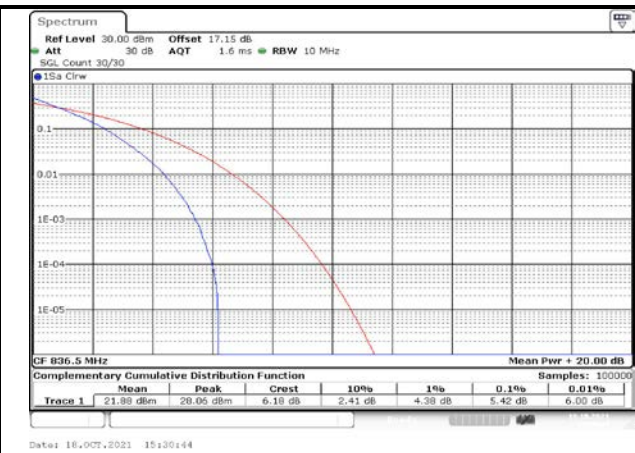


Fig.32

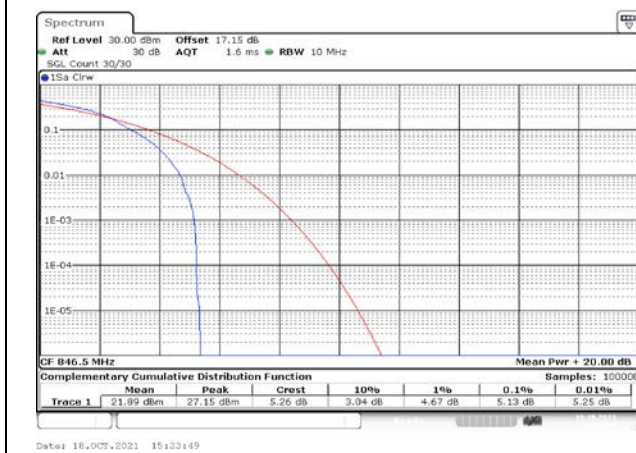


Fig.33

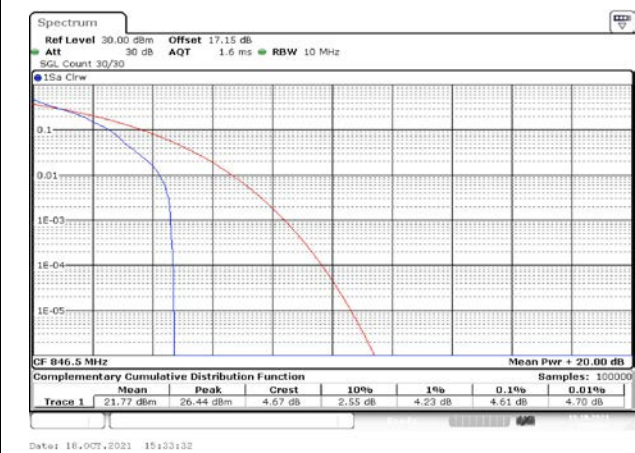


Fig.34

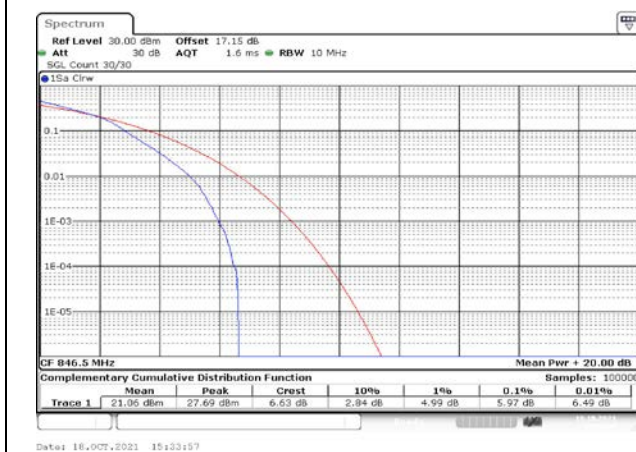


Fig.35

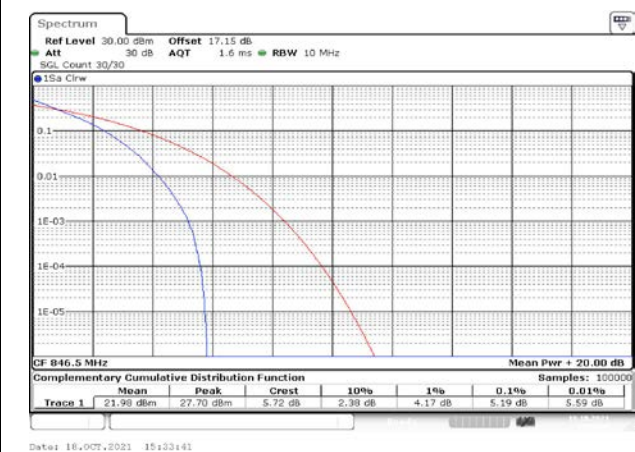


Fig.36

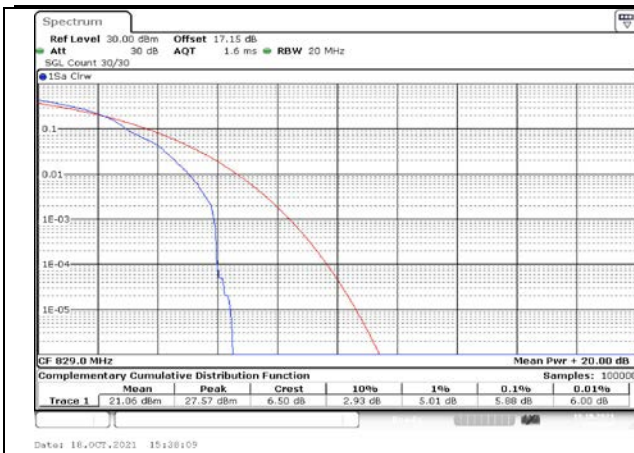


Fig.37

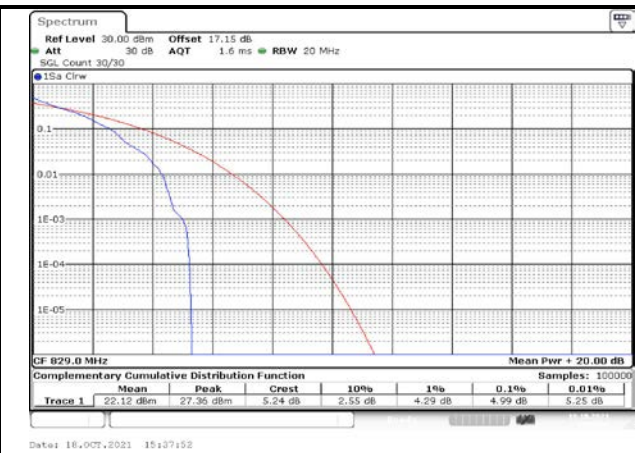


Fig.38

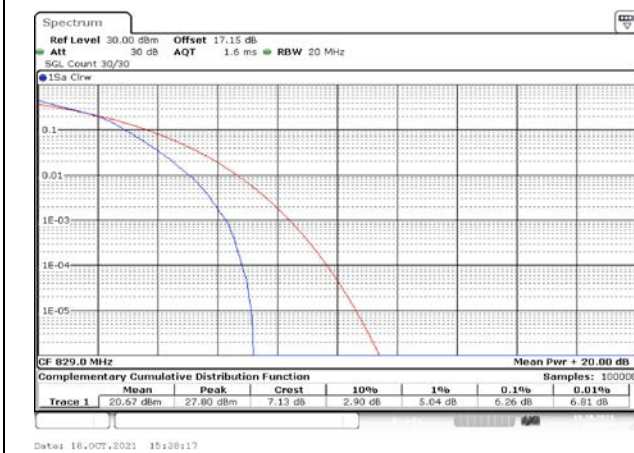


Fig.39

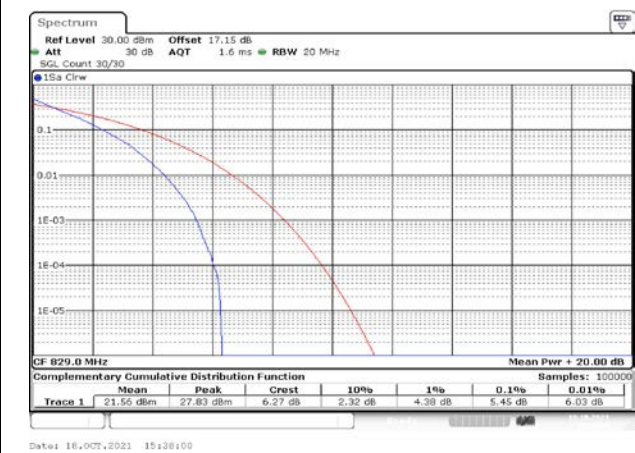


Fig.40

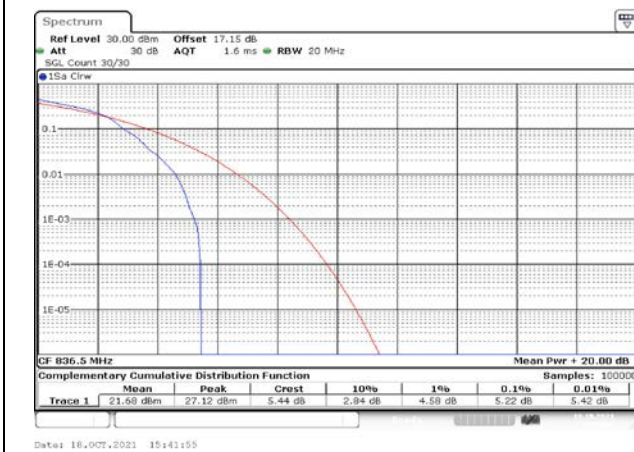


Fig.41

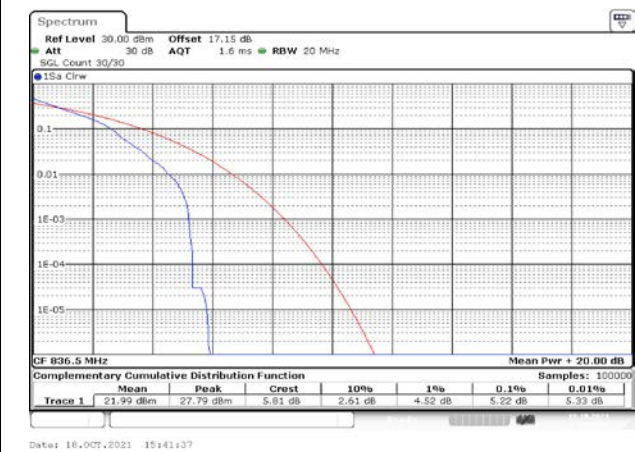


Fig.42

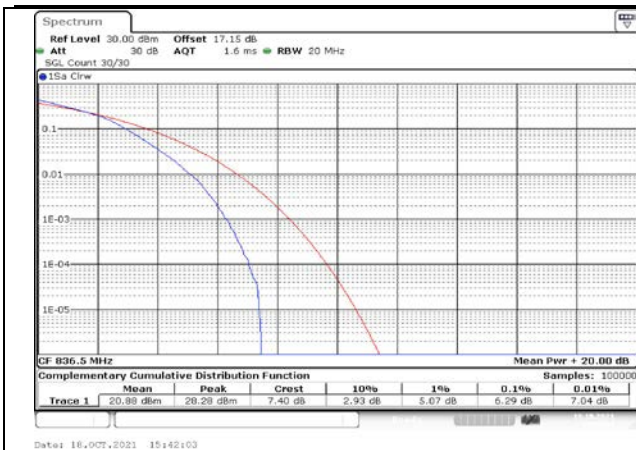


Fig.43

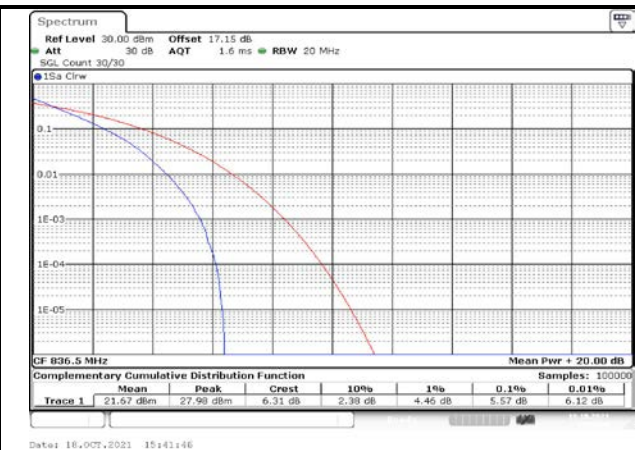


Fig.44

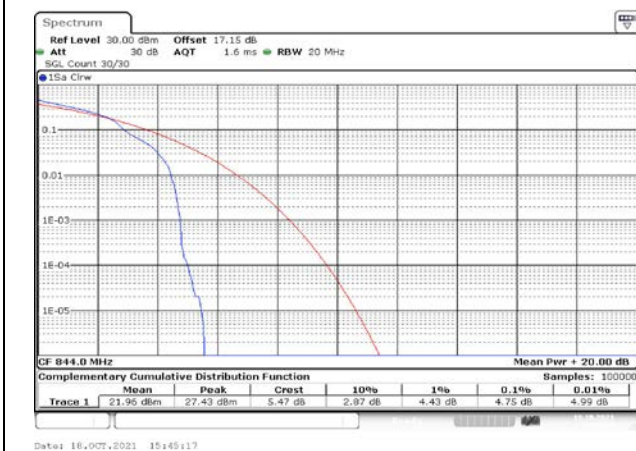


Fig.45

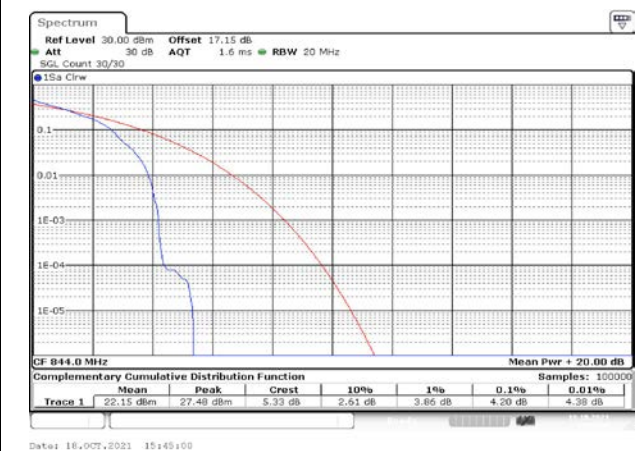


Fig.46

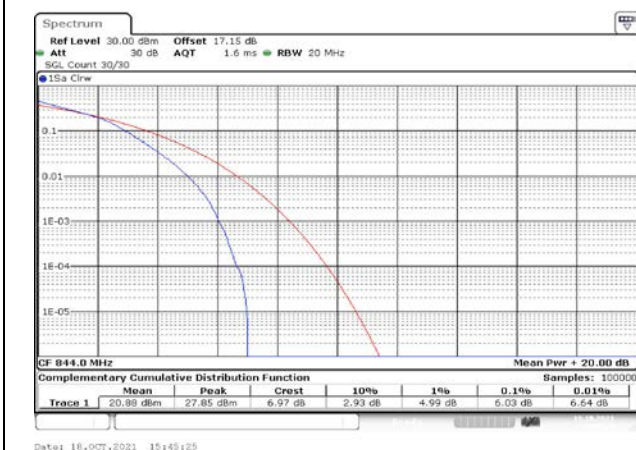


Fig.47

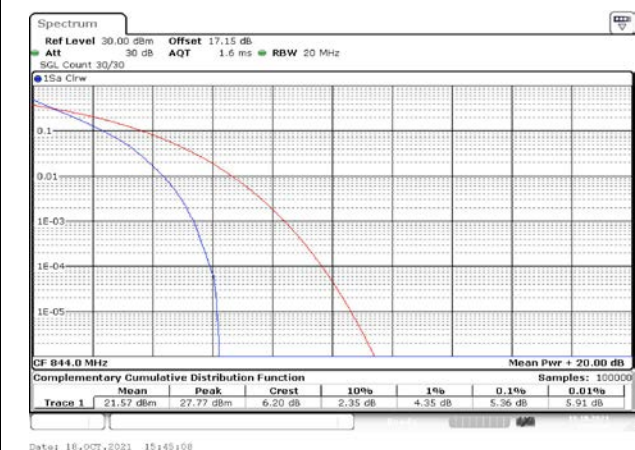


Fig.48

## 5 Spurious Emissions at antenna terminal

| Band | Carrier frequency (MHz) | Channel | BW | RB Size | RB Offset | Conducted Spurious Plot |
|------|-------------------------|---------|----|---------|-----------|-------------------------|
|      |                         |         |    |         |           | QPSK                    |
| 5    | 829                     | 20450   | 10 | 1       | 0         | Fig.1                   |
|      | 836.5                   | 20525   |    | 1       | 0         | Fig.2                   |
|      | 844                     | 20600   |    | 1       | 0         | Fig.3                   |

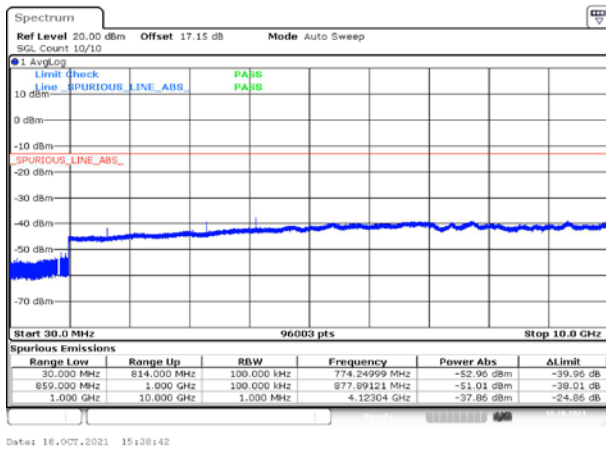


Fig.1

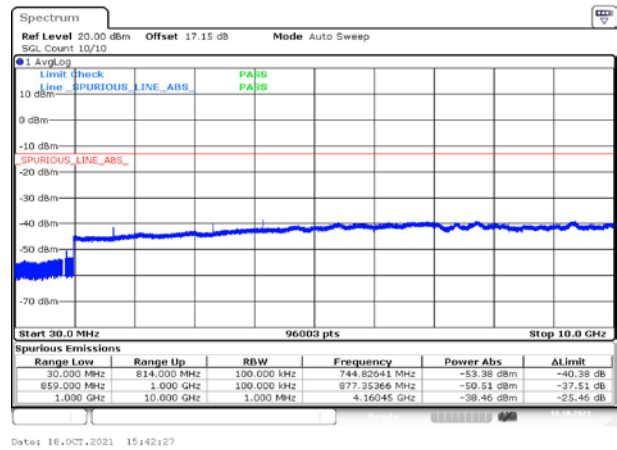


Fig.2

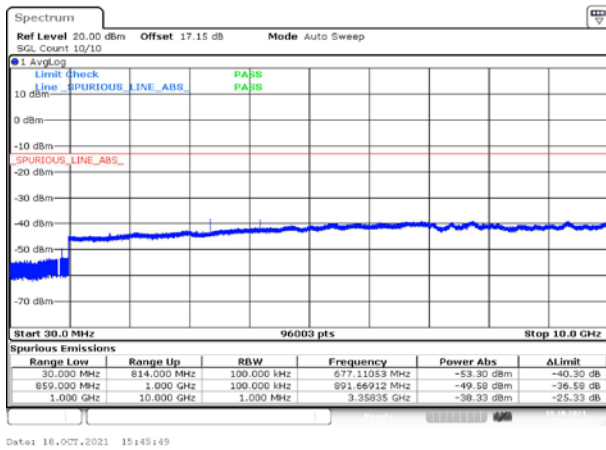
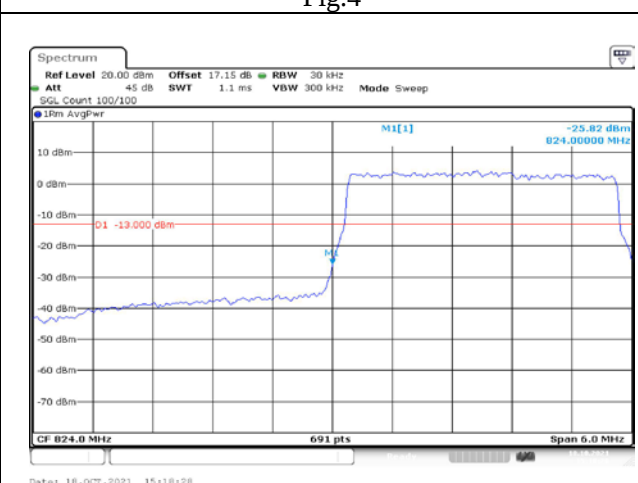
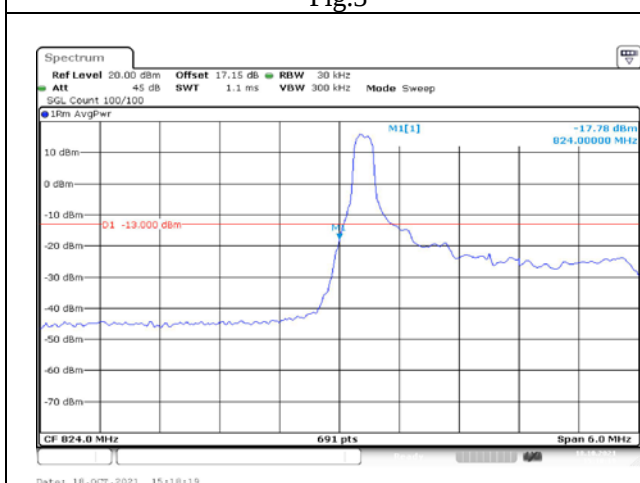
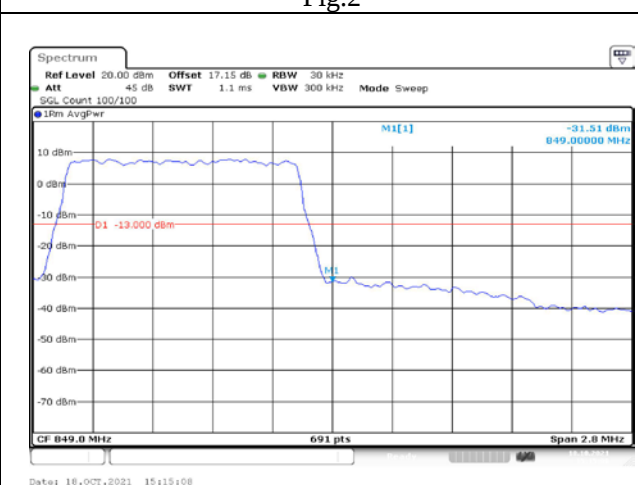
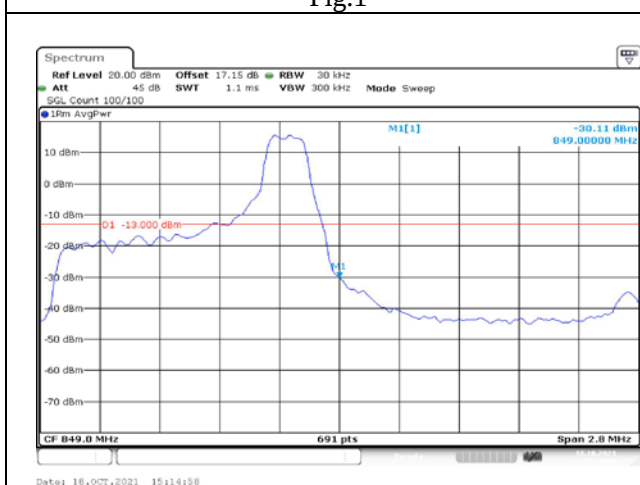
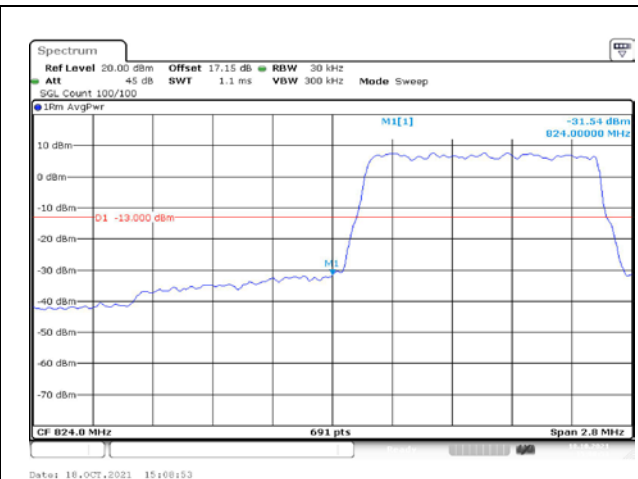
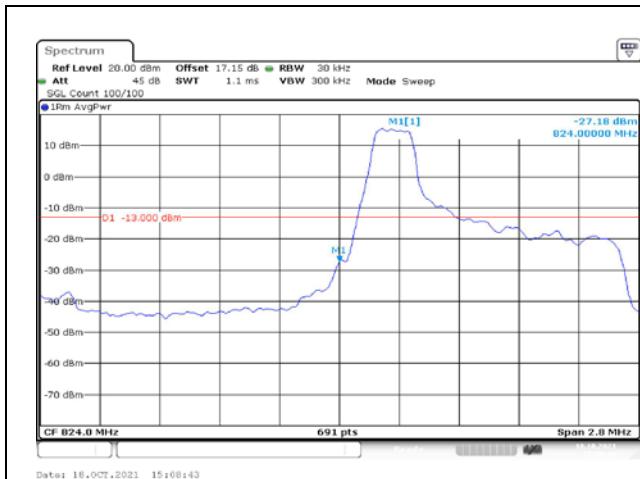
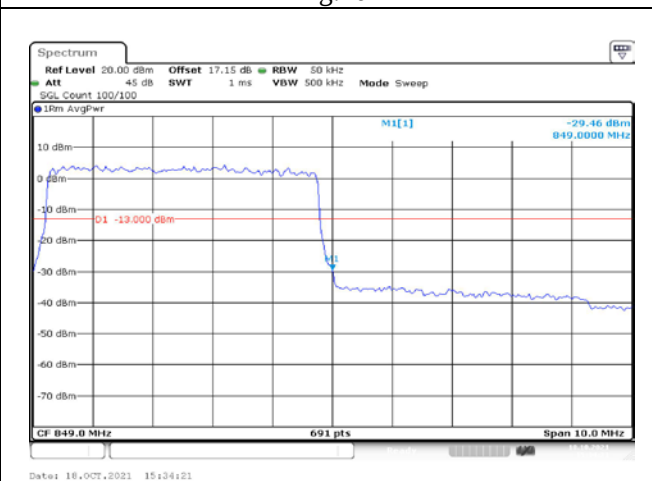
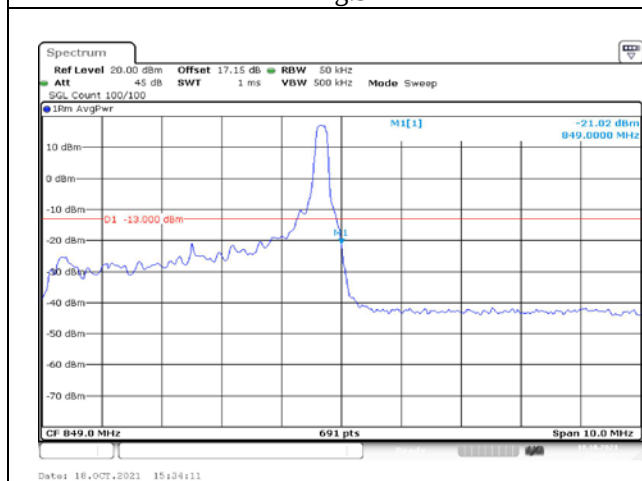
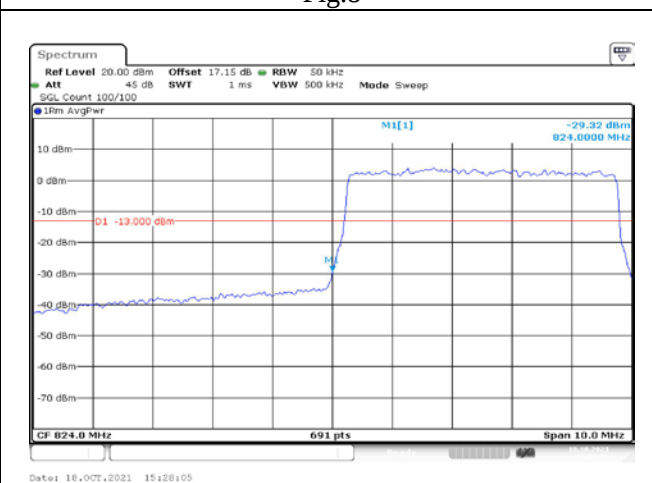
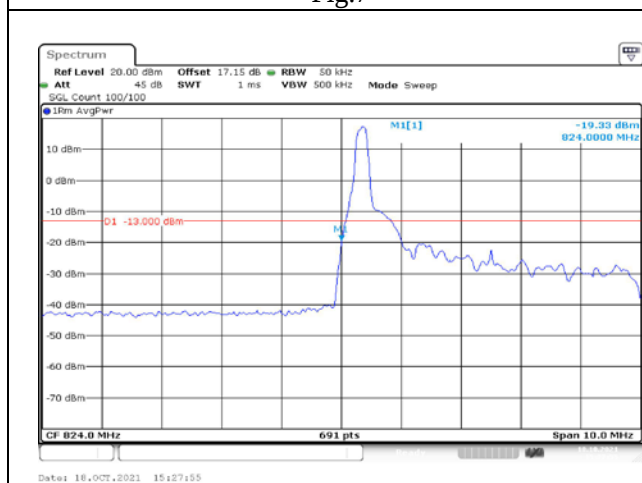
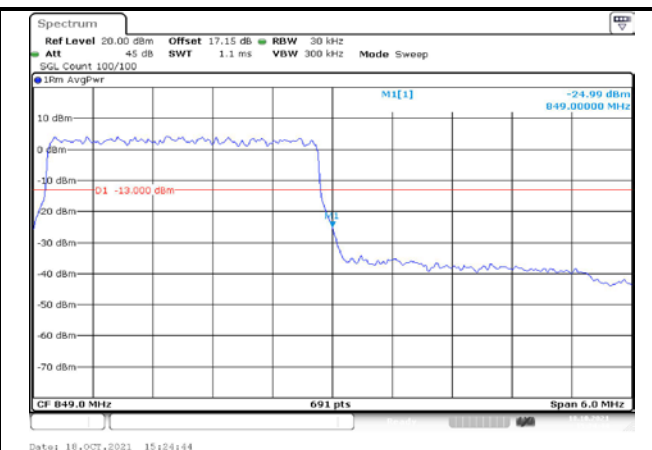
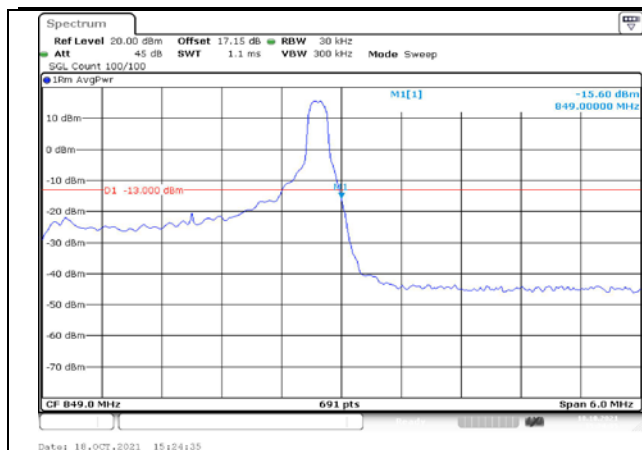


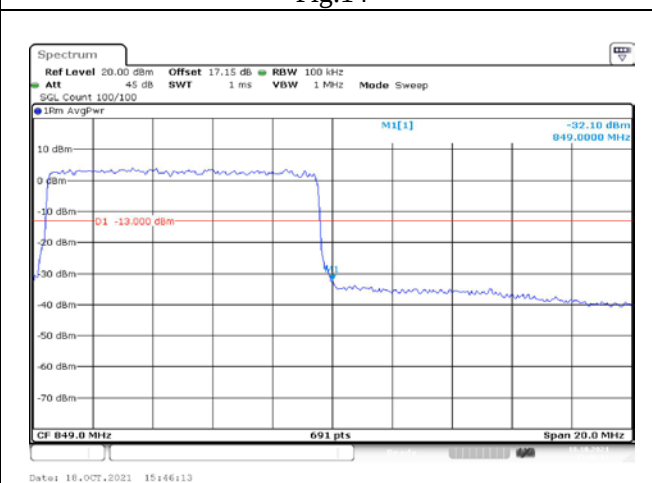
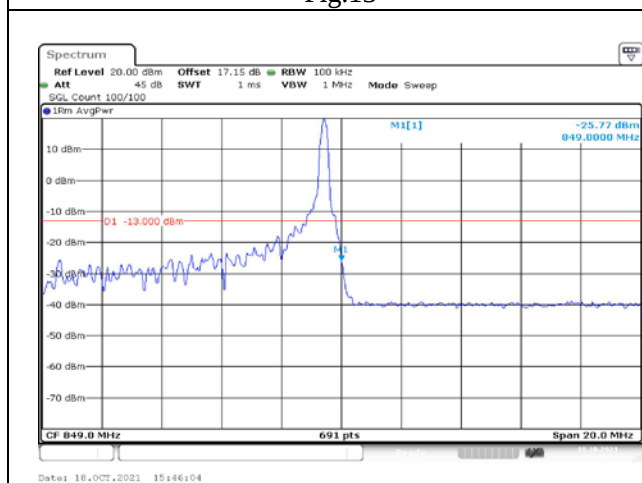
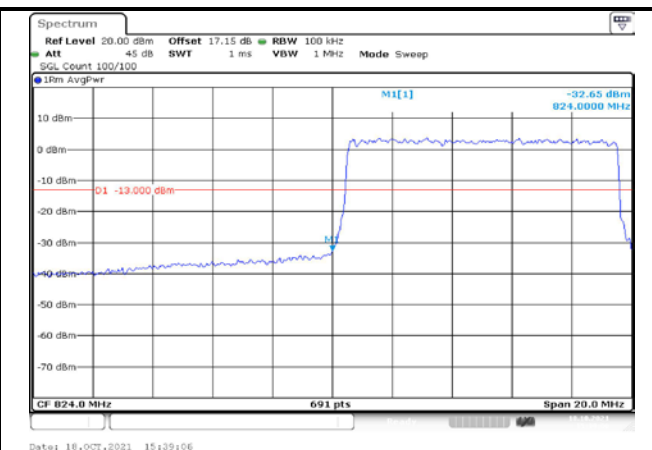
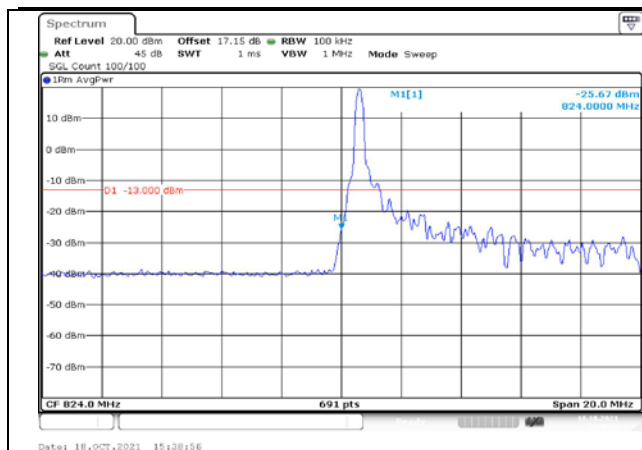
Fig.3

## 6 Band Edges Compliance

| Band Edges Compliance |                         |         |     |         |           |                 |        |
|-----------------------|-------------------------|---------|-----|---------|-----------|-----------------|--------|
| Band                  | Carrier frequency (MHz) | Channel | BW  | RB Size | RB Offset | Band Edges Plot |        |
|                       |                         |         |     |         |           | QPSK            |        |
| 5                     | 824.7                   | 20407   | 1.4 | 1       | 0         | Fig.1           |        |
|                       |                         |         |     | 6       | 0         | Fig.2           |        |
|                       |                         | 848.3   |     | 20643   | 1         | 5               | Fig.3  |
|                       |                         |         |     |         | 6         | 0               | Fig.4  |
|                       | 825.5                   | 20415   | 3   | 1       | 0         | Fig.5           |        |
|                       |                         |         |     | 15      | 0         | Fig.6           |        |
|                       |                         | 847.5   |     | 20635   | 1         | 14              | Fig.7  |
|                       |                         |         |     |         | 15        | 0               | Fig.8  |
|                       | 826.5                   | 20425   | 5   | 1       | 0         | Fig.9           |        |
|                       |                         |         |     | 25      | 0         | Fig.10          |        |
|                       |                         | 846.5   |     | 20625   | 1         | 24              | Fig.11 |
|                       |                         |         |     |         | 25        | 0               | Fig.12 |
|                       | 829                     | 20450   | 10  | 1       | 0         | Fig.13          |        |
|                       |                         |         |     | 50      | 0         | Fig.14          |        |
|                       |                         | 844     |     | 20600   | 1         | 49              | Fig.15 |
|                       |                         |         |     |         | 50        | 0               | Fig.16 |







## 7 Frequency Stability

| Temperature(°C) | Voltage | Test Result (ppm) Band 5 Low Channel QPSK |        |        |        |     |     |
|-----------------|---------|-------------------------------------------|--------|--------|--------|-----|-----|
|                 |         | 1.4M                                      | 3M     | 5M     | 10M    | 15M | 20M |
| -30             | NV      | -0.025                                    | 0.011  | 0.023  | -0.040 | --- | --- |
| -20             | NV      | 0.013                                     | -0.015 | -0.017 | 0.043  | --- | --- |
| -10             | NV      | 0.042                                     | -0.004 | -0.027 | 0.031  | --- | --- |
| 0               | NV      | -0.050                                    | 0.049  | 0.045  | 0.004  | --- | --- |
| +10             | NV      | -0.015                                    | 0.023  | 0.034  | -0.010 | --- | --- |
| +30             | NV      | 0.023                                     | -0.025 | -0.010 | -0.036 | --- | --- |
| +40             | NV      | 0.022                                     | -0.019 | 0.002  | -0.024 | --- | --- |
| +50             | NV      | 0.030                                     | -0.017 | 0.037  | 0.008  | --- | --- |
| +20             | LV      | -0.004                                    | -0.023 | -0.033 | -0.022 | --- | --- |
| +20             | HV      | -0.032                                    | -0.045 | -0.038 | -0.034 | --- | --- |

| Temperature(°C) | Voltage | Test Result (ppm) Band 5 High Channel QPSK |        |        |        |     |     |
|-----------------|---------|--------------------------------------------|--------|--------|--------|-----|-----|
|                 |         | 1.4M                                       | 3M     | 5M     | 10M    | 15M | 20M |
| -30             | NV      | -0.023                                     | 0.040  | 0.026  | -0.042 | --- | --- |
| -20             | NV      | 0.021                                      | -0.007 | -0.005 | 0.004  | --- | --- |
| -10             | NV      | -0.032                                     | 0.007  | -0.033 | -0.029 | --- | --- |
| 0               | NV      | 0.022                                      | -0.017 | -0.026 | 0.044  | --- | --- |
| +10             | NV      | -0.026                                     | -0.046 | -0.022 | 0.028  | --- | --- |
| +30             | NV      | 0.046                                      | 0.048  | 0.036  | -0.018 | --- | --- |
| +40             | NV      | 0.043                                      | 0.019  | 0.034  | -0.019 | --- | --- |
| +50             | NV      | 0.043                                      | -0.008 | 0.042  | 0.009  | --- | --- |
| +20             | LV      | -0.035                                     | -0.028 | 0.021  | 0.008  | --- | --- |
| +20             | HV      | 0.014                                      | -0.046 | 0.013  | 0.001  | --- | --- |

## 8 Effective Radiated Power and Effective Isotropic Radiated Power

| Modulation | Carrier frequency (MHz) | UL Channel | BW  | RB Size | RB Offset | Conduct ed power (dBm) | ERP/ EIRP (dBm) | ERP/ EIRP (W) |
|------------|-------------------------|------------|-----|---------|-----------|------------------------|-----------------|---------------|
| 16QAM      | 824.7                   | 20407      | 1.4 | 1       | 0         | 22.72                  | 18.37           | 0.069         |
|            |                         |            |     | 1       | 3         | 22.87                  | 18.52           | 0.071         |
|            |                         |            |     | 1       | 5         | 22.89                  | 18.54           | 0.071         |
|            |                         |            |     | 3       | 0         | 22.77                  | 18.42           | 0.070         |
|            |                         |            |     | 3       | 1         | 22.93                  | 18.58           | 0.072         |
|            |                         |            |     | 3       | 3         | 22.89                  | 18.54           | 0.071         |
|            |                         |            |     | 6       | 0         | 21.58                  | 17.23           | 0.053         |
|            | 836.5                   | 20525      |     | 1       | 0         | 23.30                  | 18.95           | 0.079         |
|            |                         |            |     | 1       | 3         | 23.44                  | 19.09           | 0.081         |
|            |                         |            |     | 1       | 5         | 23.55                  | 19.20           | 0.083         |
|            |                         |            |     | 3       | 0         | 23.04                  | 18.69           | 0.074         |
|            |                         |            |     | 3       | 1         | 22.96                  | 18.61           | 0.073         |
|            |                         |            |     | 3       | 3         | 23.04                  | 18.69           | 0.074         |
|            |                         |            |     | 6       | 0         | 22.20                  | 17.85           | 0.061         |
|            | 848.3                   | 20643      |     | 1       | 0         | 22.91                  | 18.56           | 0.072         |
|            |                         |            |     | 1       | 3         | 22.86                  | 18.51           | 0.071         |
|            |                         |            |     | 1       | 5         | 23.06                  | 18.71           | 0.074         |
|            |                         |            |     | 3       | 0         | 23.06                  | 18.71           | 0.074         |
|            |                         |            |     | 3       | 1         | 23.15                  | 18.80           | 0.076         |
|            |                         |            |     | 3       | 3         | 23.21                  | 18.86           | 0.077         |
|            |                         |            |     | 6       | 0         | 22.26                  | 17.91           | 0.062         |

| Modulation | Carrier frequency (MHz) | UL Channel | BW  | RB Size | RB Offset | Conduct ed power (dBm) | ERP/ EIRP (dBm) | ERP/ EIRP (W) |
|------------|-------------------------|------------|-----|---------|-----------|------------------------|-----------------|---------------|
| QPSK       | 824.7                   | 20407      | 1.4 | 1       | 0         | 23.19                  | 18.84           | 0.077         |
|            |                         |            |     | 1       | 3         | 23.15                  | 18.80           | 0.076         |
|            |                         |            |     | 1       | 5         | 23.17                  | 18.82           | 0.076         |
|            |                         |            |     | 3       | 0         | 23.21                  | 18.86           | 0.077         |
|            |                         |            |     | 3       | 1         | 23.03                  | 18.68           | 0.074         |
|            |                         |            |     | 3       | 3         | 23.21                  | 18.86           | 0.077         |
|            |                         |            |     | 6       | 0         | 22.74                  | 18.39           | 0.069         |
|            | 836.5                   | 20525      |     | 1       | 0         | 23.53                  | 19.18           | 0.083         |
|            |                         |            |     | 1       | 3         | 23.66                  | 19.31           | 0.085         |
|            |                         |            |     | 1       | 5         | 23.51                  | 19.16           | 0.082         |
|            |                         |            |     | 3       | 0         | 23.35                  | 19.00           | 0.079         |
|            |                         |            |     | 3       | 1         | 23.37                  | 19.02           | 0.080         |
|            |                         |            |     | 3       | 3         | 23.24                  | 18.89           | 0.077         |
|            |                         |            |     | 6       | 0         | 22.81                  | 18.46           | 0.070         |
|            | 848.3                   | 20643      |     | 1       | 0         | 23.69                  | 19.34           | 0.086         |
|            |                         |            |     | 1       | 3         | 23.71                  | 19.36           | 0.086         |
|            |                         |            |     | 1       | 5         | 23.72                  | 19.37           | 0.086         |
|            |                         |            |     | 3       | 0         | 23.45                  | 19.10           | 0.081         |
|            |                         |            |     | 3       | 1         | 23.49                  | 19.14           | 0.082         |
|            |                         |            |     | 3       | 3         | 23.37                  | 19.02           | 0.080         |
|            |                         |            |     | 6       | 0         | 23.24                  | 18.89           | 0.077         |

| Modulation | Carrier frequen<br>cy<br>(MHz) | UL<br>Channel | BW | RB Size | RB<br>Offset | Conduct<br>ed<br>power<br>(dBm) | ERP/<br>EIRP<br>(dBm) | ERP/<br>EIRP<br>(W) |
|------------|--------------------------------|---------------|----|---------|--------------|---------------------------------|-----------------------|---------------------|
| 16QAM      | 825.5                          | 20415         | 3  | 1       | 0            | 22.71                           | 18.36                 | 0.069               |
|            |                                |               |    | 1       | 8            | 22.66                           | 18.31                 | 0.068               |
|            |                                |               |    | 1       | 14           | 22.84                           | 18.49                 | 0.071               |
|            |                                |               |    | 8       | 0            | 21.84                           | 17.49                 | 0.056               |
|            |                                |               |    | 8       | 4            | 21.85                           | 17.50                 | 0.056               |
|            |                                |               |    | 8       | 7            | 22.12                           | 17.77                 | 0.060               |
|            |                                |               |    | 15      | 0            | 21.80                           | 17.45                 | 0.056               |
|            | 836.5                          | 20525         |    | 1       | 0            | 23.34                           | 18.99                 | 0.079               |
|            |                                |               |    | 1       | 8            | 23.55                           | 19.20                 | 0.083               |
|            |                                |               |    | 1       | 14           | 23.26                           | 18.91                 | 0.078               |
|            |                                |               |    | 8       | 0            | 21.83                           | 17.48                 | 0.056               |
|            |                                |               |    | 8       | 4            | 21.95                           | 17.60                 | 0.058               |
|            |                                |               |    | 8       | 7            | 21.86                           | 17.51                 | 0.056               |
|            |                                |               |    | 15      | 0            | 22.08                           | 17.73                 | 0.059               |
|            | 847.5                          | 20635         |    | 1       | 0            | 22.67                           | 18.32                 | 0.068               |
|            |                                |               |    | 1       | 8            | 22.60                           | 18.25                 | 0.067               |
|            |                                |               |    | 1       | 14           | 22.82                           | 18.47                 | 0.070               |
|            |                                |               |    | 8       | 0            | 21.95                           | 17.60                 | 0.058               |
|            |                                |               |    | 8       | 4            | 21.99                           | 17.64                 | 0.058               |
|            |                                |               |    | 8       | 7            | 22.04                           | 17.69                 | 0.059               |
|            |                                |               |    | 15      | 0            | 21.89                           | 17.54                 | 0.057               |

| Modulation | Carrier frequern<br>cy<br>(MHz) | UL<br>Channel | BW | RB Size | RB<br>Offset | Conduct<br>ed<br>power<br>(dBm) | ERP/<br>EIRP<br>(dBm) | ERP/<br>EIRP<br>(W) |
|------------|---------------------------------|---------------|----|---------|--------------|---------------------------------|-----------------------|---------------------|
| QPSK       | 825.5                           | 20415         | 3  | 1       | 0            | 23.47                           | 19.12                 | 0.082               |
|            |                                 |               |    | 1       | 8            | 23.46                           | 19.11                 | 0.081               |
|            |                                 |               |    | 1       | 14           | 23.46                           | 19.11                 | 0.081               |
|            |                                 |               |    | 8       | 0            | 22.85                           | 18.50                 | 0.071               |
|            |                                 |               |    | 8       | 4            | 22.85                           | 18.50                 | 0.071               |
|            |                                 |               |    | 8       | 7            | 22.90                           | 18.55                 | 0.072               |
|            |                                 |               |    | 15      | 0            | 22.82                           | 18.47                 | 0.070               |
|            | 836.5                           | 20525         |    | 1       | 0            | 23.61                           | 19.26                 | 0.084               |
|            |                                 |               |    | 1       | 8            | 23.60                           | 19.25                 | 0.084               |
|            |                                 |               |    | 1       | 14           | 23.49                           | 19.14                 | 0.082               |
|            |                                 |               |    | 8       | 0            | 22.77                           | 18.42                 | 0.070               |
|            |                                 |               |    | 8       | 4            | 22.75                           | 18.40                 | 0.069               |
|            |                                 |               |    | 8       | 7            | 22.78                           | 18.43                 | 0.070               |
|            |                                 |               |    | 15      | 0            | 22.72                           | 18.37                 | 0.069               |
|            | 847.5                           | 20635         |    | 1       | 0            | 23.65                           | 19.30                 | 0.085               |
|            |                                 |               |    | 1       | 8            | 23.65                           | 19.30                 | 0.085               |
|            |                                 |               |    | 1       | 14           | 23.71                           | 19.36                 | 0.086               |
|            |                                 |               |    | 8       | 0            | 23.10                           | 18.75                 | 0.075               |
|            |                                 |               |    | 8       | 4            | 22.90                           | 18.55                 | 0.072               |
|            |                                 |               |    | 8       | 7            | 23.21                           | 18.86                 | 0.077               |
|            |                                 |               |    | 15      | 0            | 22.88                           | 18.53                 | 0.071               |

| Modulation | Carrier frequern<br>cy<br>(MHz) | UL<br>Channel | BW | RB Size | RB<br>Offset | Conduct<br>ed<br>power<br>(dBm) | ERP/<br>EIRP<br>(dBm) | ERP/<br>EIRP<br>(W) |
|------------|---------------------------------|---------------|----|---------|--------------|---------------------------------|-----------------------|---------------------|
| 16QAM      | 826.5                           | 20425         | 5  | 1       | 0            | 22.28                           | 17.93                 | 0.062               |
|            |                                 |               |    | 1       | 12           | 22.29                           | 17.94                 | 0.062               |
|            |                                 |               |    | 1       | 24           | 22.28                           | 17.93                 | 0.062               |
|            |                                 |               |    | 12      | 0            | 21.74                           | 17.39                 | 0.055               |
|            |                                 |               |    | 12      | 7            | 22.00                           | 17.65                 | 0.058               |
|            |                                 |               |    | 12      | 13           | 21.99                           | 17.64                 | 0.058               |
|            |                                 |               |    | 25      | 0            | 22.15                           | 17.80                 | 0.060               |
|            | 836.5                           | 20525         |    | 1       | 0            | 22.74                           | 18.39                 | 0.069               |
|            |                                 |               |    | 1       | 12           | 22.80                           | 18.45                 | 0.070               |
|            |                                 |               |    | 1       | 24           | 22.96                           | 18.61                 | 0.073               |
|            |                                 |               |    | 12      | 0            | 21.60                           | 17.25                 | 0.053               |
|            |                                 |               |    | 12      | 7            | 21.84                           | 17.49                 | 0.056               |
|            |                                 |               |    | 12      | 13           | 21.57                           | 17.22                 | 0.053               |
|            |                                 |               |    | 25      | 0            | 21.78                           | 17.43                 | 0.055               |
|            | 846.5                           | 20625         |    | 1       | 0            | 22.58                           | 18.23                 | 0.067               |
|            |                                 |               |    | 1       | 12           | 22.63                           | 18.28                 | 0.067               |
|            |                                 |               |    | 1       | 24           | 22.92                           | 18.57                 | 0.072               |
|            |                                 |               |    | 12      | 0            | 21.91                           | 17.56                 | 0.057               |
|            |                                 |               |    | 12      | 7            | 21.94                           | 17.59                 | 0.057               |
|            |                                 |               |    | 12      | 13           | 22.04                           | 17.69                 | 0.059               |
|            |                                 |               |    | 25      | 0            | 22.02                           | 17.67                 | 0.058               |

| Modulation | Carrier frequen<br>cy<br>(MHz) | UL<br>Channel | BW | RB Size | RB<br>Offset | Conduct<br>ed<br>power<br>(dBm) | ERP/<br>EIRP<br>(dBm) | ERP/<br>EIRP<br>(W) |
|------------|--------------------------------|---------------|----|---------|--------------|---------------------------------|-----------------------|---------------------|
| QPSK       | 826.5                          | 20425         | 5  | 1       | 0            | 23.27                           | 18.92                 | 0.078               |
|            |                                |               |    | 1       | 12           | 23.46                           | 19.11                 | 0.081               |
|            |                                |               |    | 1       | 24           | 23.31                           | 18.96                 | 0.079               |
|            |                                |               |    | 12      | 0            | 22.85                           | 18.50                 | 0.071               |
|            |                                |               |    | 12      | 7            | 22.75                           | 18.40                 | 0.069               |
|            |                                |               |    | 12      | 13           | 22.89                           | 18.54                 | 0.071               |
|            |                                |               |    | 25      | 0            | 22.81                           | 18.46                 | 0.070               |
|            | 836.5                          | 20525         |    | 1       | 0            | 23.19                           | 18.84                 | 0.077               |
|            |                                |               |    | 1       | 12           | 23.10                           | 18.75                 | 0.075               |
|            |                                |               |    | 1       | 24           | 23.27                           | 18.92                 | 0.078               |
|            |                                |               |    | 12      | 0            | 22.80                           | 18.45                 | 0.070               |
|            |                                |               |    | 12      | 7            | 22.84                           | 18.49                 | 0.071               |
|            |                                |               |    | 12      | 13           | 22.70                           | 18.35                 | 0.068               |
|            |                                |               |    | 25      | 0            | 22.76                           | 18.41                 | 0.069               |
|            | 846.5                          | 20625         |    | 1       | 0            | 23.64                           | 19.29                 | 0.085               |
|            |                                |               |    | 1       | 12           | 23.52                           | 19.17                 | 0.083               |
|            |                                |               |    | 1       | 24           | 23.41                           | 19.06                 | 0.081               |
|            |                                |               |    | 12      | 0            | 22.92                           | 18.57                 | 0.072               |
|            |                                |               |    | 12      | 7            | 23.10                           | 18.75                 | 0.075               |
|            |                                |               |    | 12      | 13           | 22.90                           | 18.55                 | 0.072               |
|            |                                |               |    | 25      | 0            | 22.95                           | 18.60                 | 0.072               |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conduct ed power (dBm) | ERP/ EIRP (dBm) | ERP/ EIRP (W) |
|------------|-------------------------|------------|----|---------|-----------|------------------------|-----------------|---------------|
| 16QAM      | 829                     | 20450      | 10 | 1       | 0         | 22.99                  | 18.64           | 0.073         |
|            |                         |            |    | 1       | 25        | 22.89                  | 18.54           | 0.071         |
|            |                         |            |    | 1       | 49        | 22.97                  | 18.62           | 0.073         |
|            |                         |            |    | 25      | 0         | 22.24                  | 17.89           | 0.062         |
|            |                         |            |    | 25      | 12        | 21.78                  | 17.43           | 0.055         |
|            |                         |            |    | 25      | 25        | 21.95                  | 17.60           | 0.058         |
|            |                         |            |    | 50      | 0         | 21.63                  | 17.28           | 0.053         |
|            | 836.5                   | 20525      |    | 1       | 0         | 23.73                  | 19.38           | 0.087         |
|            |                         |            |    | 1       | 25        | 23.65                  | 19.30           | 0.085         |
|            |                         |            |    | 1       | 49        | 23.63                  | 19.28           | 0.085         |
|            |                         |            |    | 25      | 0         | 22.02                  | 17.67           | 0.058         |
|            |                         |            |    | 25      | 12        | 21.95                  | 17.60           | 0.058         |
|            |                         |            |    | 25      | 25        | 22.25                  | 17.90           | 0.062         |
|            |                         |            |    | 50      | 0         | 21.90                  | 17.55           | 0.057         |
|            | 844                     | 20600      |    | 1       | 0         | 23.57                  | 19.22           | 0.084         |
|            |                         |            |    | 1       | 25        | 23.33                  | 18.98           | 0.079         |
|            |                         |            |    | 1       | 49        | 23.78                  | 19.43           | 0.088         |
|            |                         |            |    | 25      | 0         | 21.81                  | 17.46           | 0.056         |
|            |                         |            |    | 25      | 12        | 21.61                  | 17.26           | 0.053         |
|            |                         |            |    | 25      | 25        | 22.06                  | 17.71           | 0.059         |
|            |                         |            |    | 50      | 0         | 21.98                  | 17.63           | 0.058         |

| Modulation | Carrier frequen<br>cy<br>(MHz) | UL<br>Channel | BW | RB Size | RB<br>Offset | Conduct<br>ed<br>power<br>(dBm) | ERP/<br>EIRP<br>(dBm) | ERP/<br>EIRP<br>(W) |
|------------|--------------------------------|---------------|----|---------|--------------|---------------------------------|-----------------------|---------------------|
| QPSK       | 829                            | 20450         | 10 | 1       | 0            | 23.26                           | 18.91                 | 0.078               |
|            |                                |               |    | 1       | 25           | 23.31                           | 18.96                 | 0.079               |
|            |                                |               |    | 1       | 49           | 23.34                           | 18.99                 | 0.079               |
|            |                                |               |    | 25      | 0            | 22.86                           | 18.51                 | 0.071               |
|            |                                |               |    | 25      | 12           | 22.71                           | 18.36                 | 0.069               |
|            |                                |               |    | 25      | 25           | 22.86                           | 18.51                 | 0.071               |
|            |                                |               |    | 50      | 0            | 22.73                           | 18.38                 | 0.069               |
|            | 836.5                          | 20525         |    | 1       | 0            | 23.42                           | 19.07                 | 0.081               |
|            |                                |               |    | 1       | 25           | 23.49                           | 19.14                 | 0.082               |
|            |                                |               |    | 1       | 49           | 23.41                           | 19.06                 | 0.081               |
|            |                                |               |    | 25      | 0            | 22.81                           | 18.46                 | 0.070               |
|            |                                |               |    | 25      | 12           | 22.65                           | 18.30                 | 0.068               |
|            |                                |               |    | 25      | 25           | 22.78                           | 18.43                 | 0.070               |
|            |                                |               |    | 50      | 0            | 22.96                           | 18.61                 | 0.073               |
|            | 844                            | 20600         |    | 1       | 0            | 23.34                           | 18.99                 | 0.079               |
|            |                                |               |    | 1       | 25           | 23.39                           | 19.04                 | 0.080               |
|            |                                |               |    | 1       | 49           | 23.44                           | 19.09                 | 0.081               |
|            |                                |               |    | 25      | 0            | 22.78                           | 18.43                 | 0.070               |
|            |                                |               |    | 25      | 12           | 22.81                           | 18.46                 | 0.070               |
|            |                                |               |    | 25      | 25           | 22.90                           | 18.55                 | 0.072               |
|            |                                |               |    | 50      | 0            | 22.86                           | 18.51                 | 0.071               |