

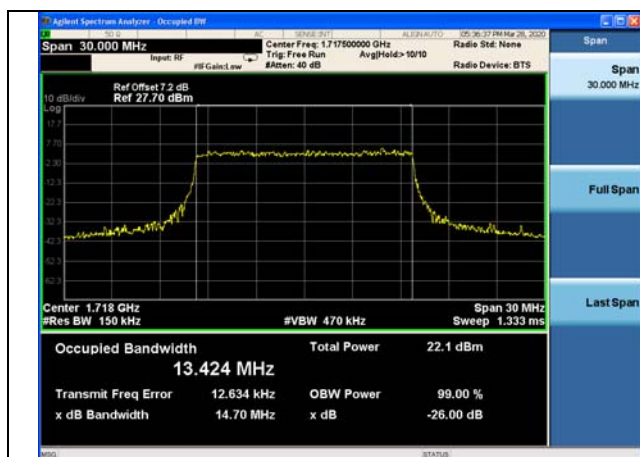


Fig.37

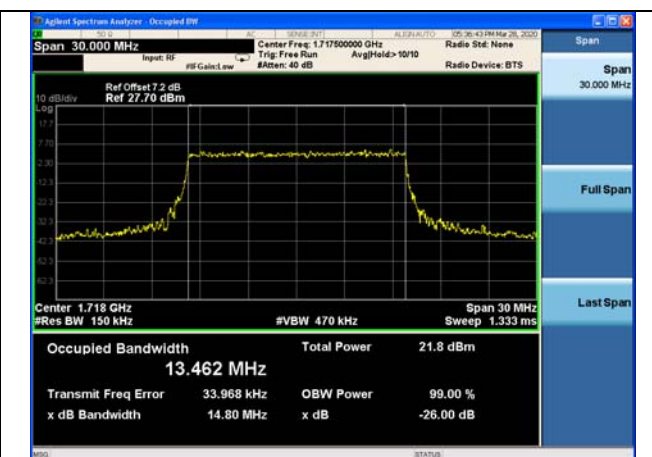


Fig.38

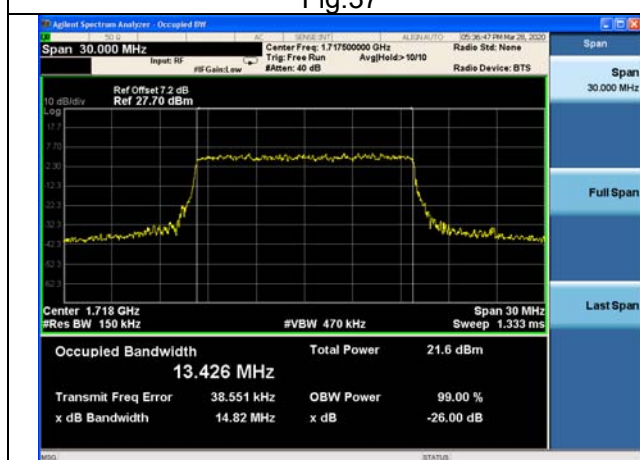


Fig.39

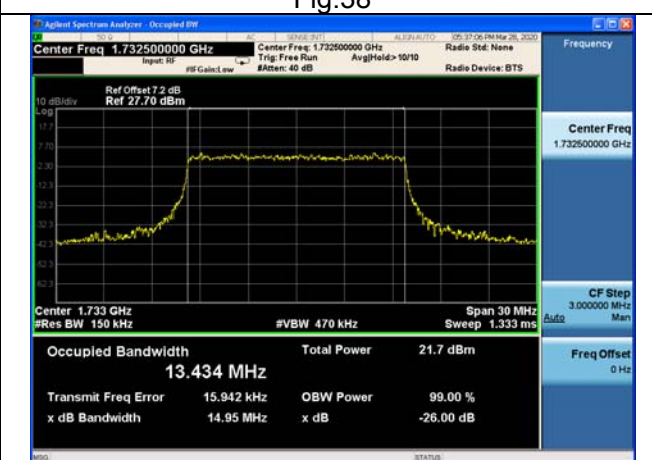


Fig.40

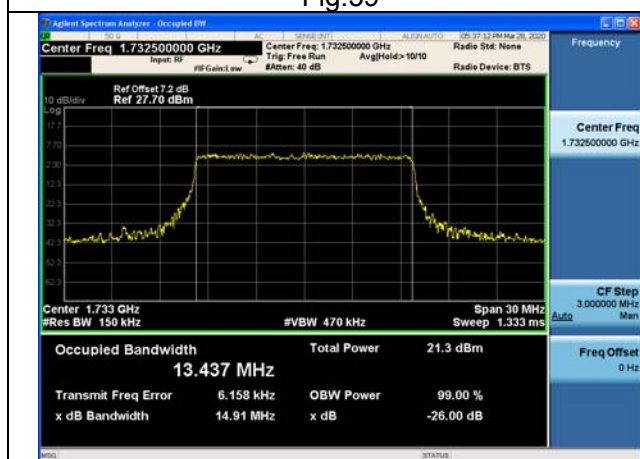


Fig.41

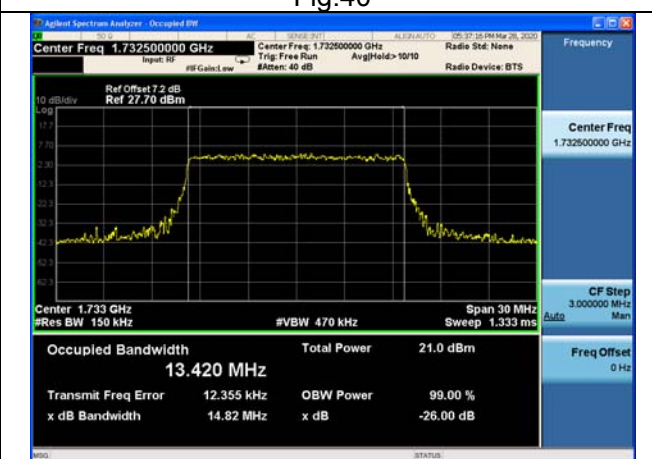


Fig.42

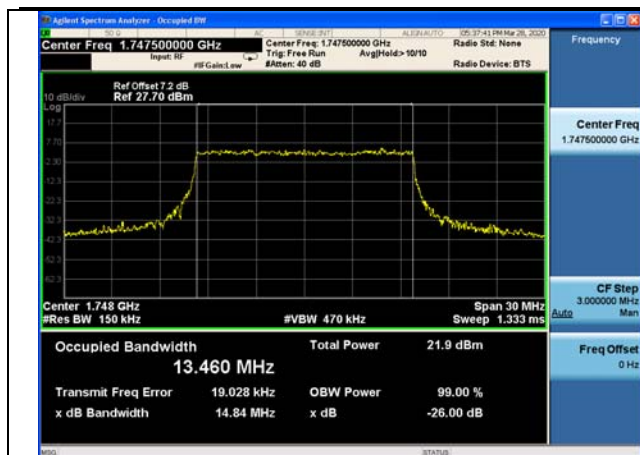


Fig.43

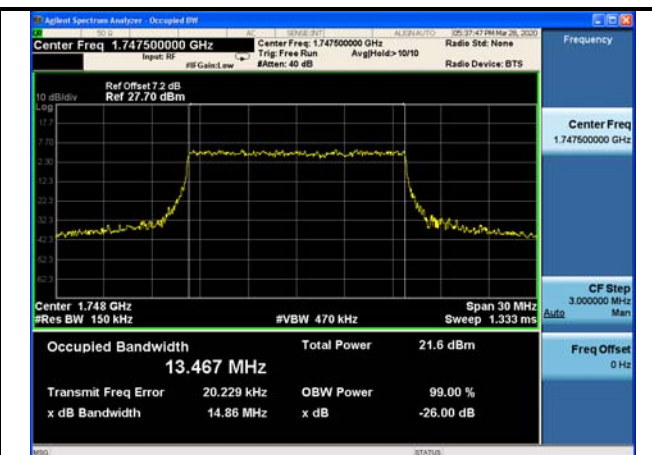


Fig.44

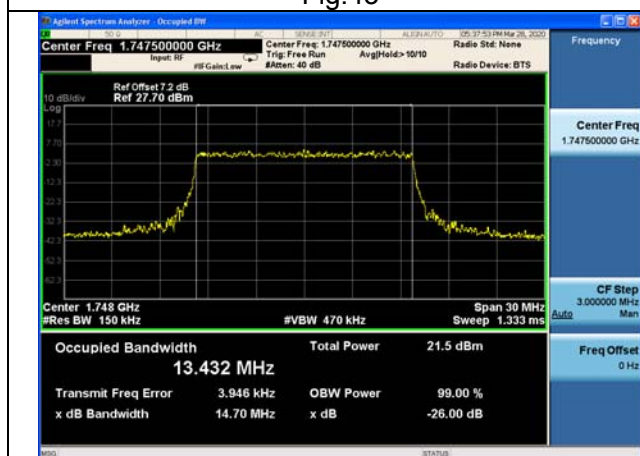


Fig.45

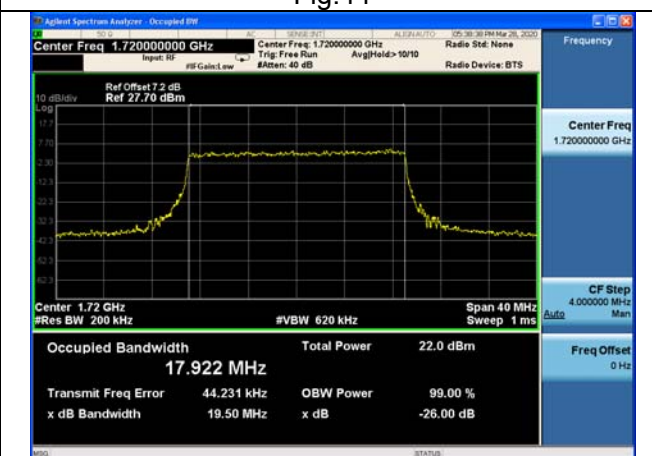


Fig.46

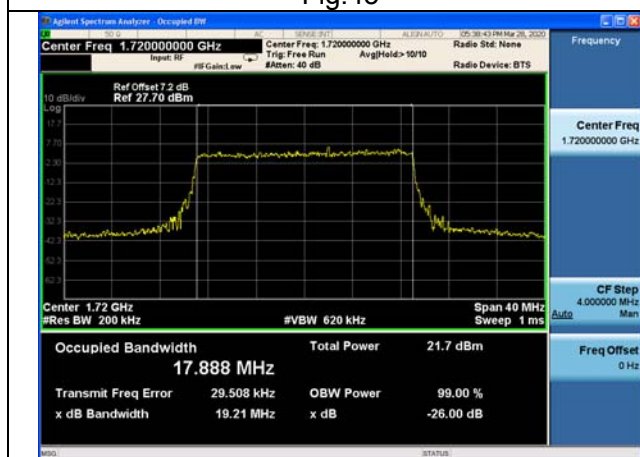


Fig.47

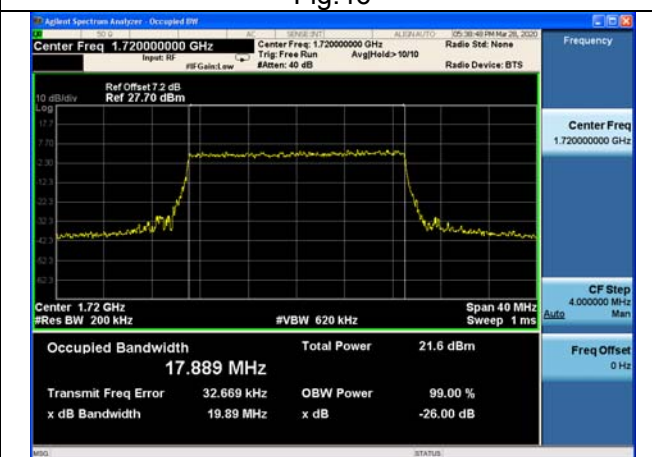


Fig.48

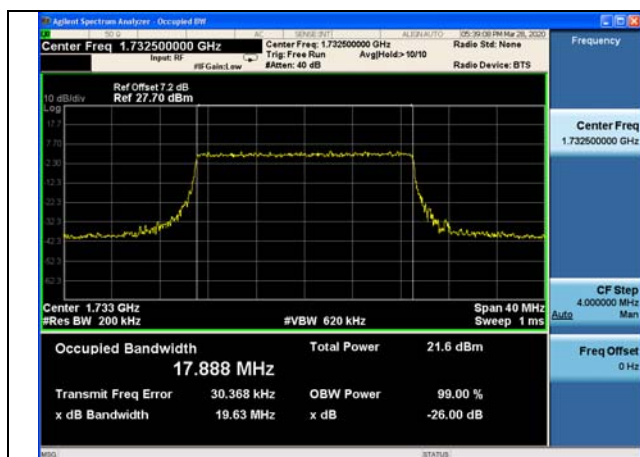


Fig.49

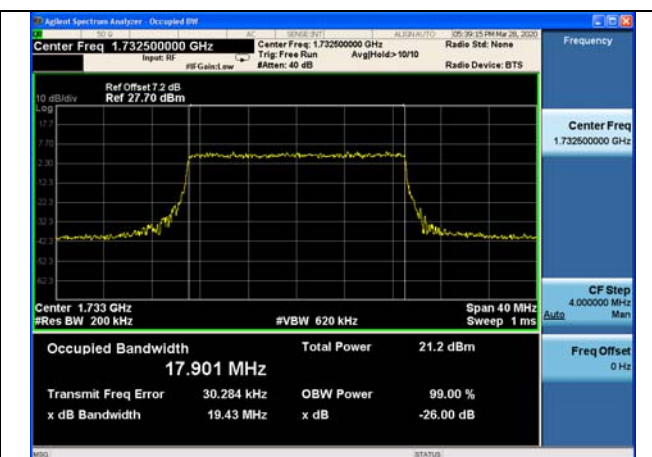


Fig.50

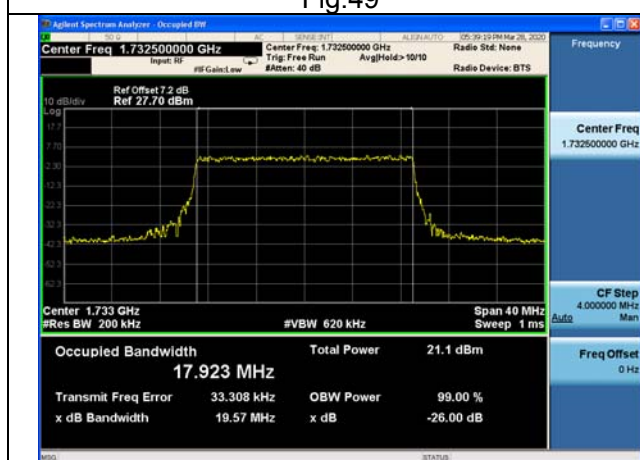


Fig.51

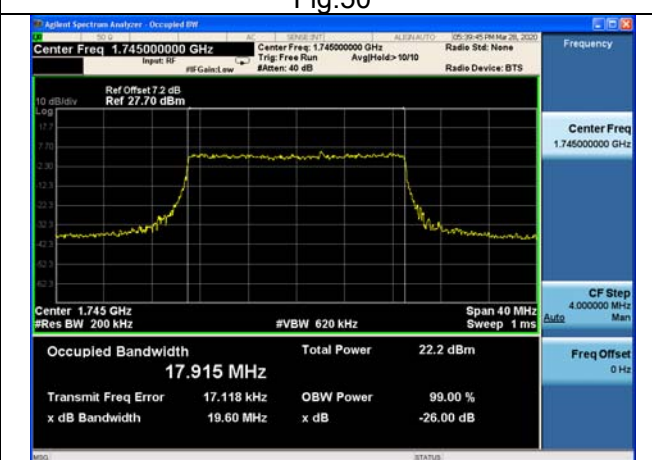


Fig.52

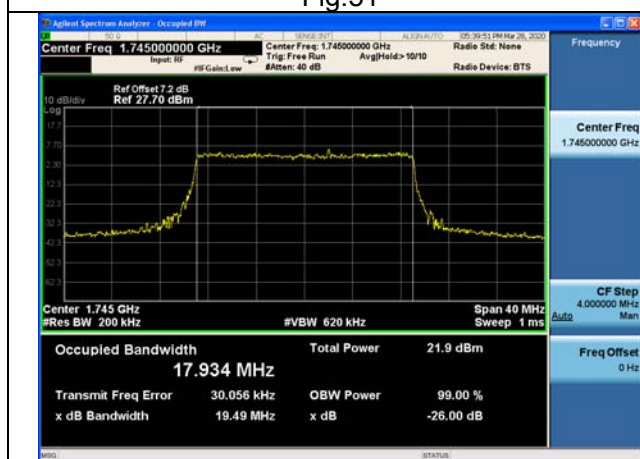


Fig.53

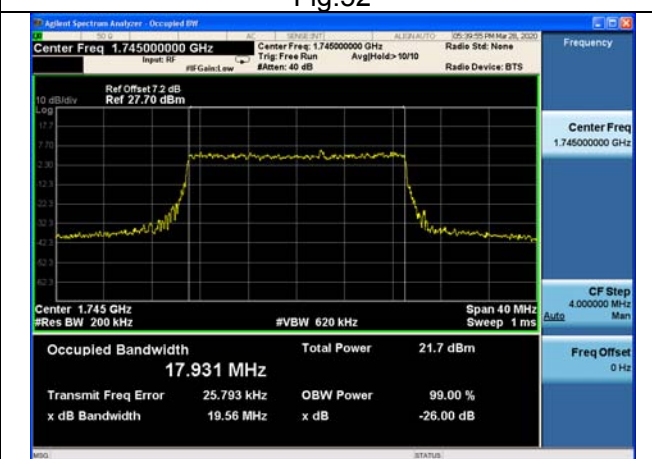


Fig.54

### 3 Peak-Average Ratio

| Band | Carrier frequency (MHz) | Channel | BW (MHz) | RB Size | RB Offset | QPSK   | 16-QAM | 64-QAM |
|------|-------------------------|---------|----------|---------|-----------|--------|--------|--------|
| 4    | 1732.5                  | 20175   | 1.4      | 1       | 0         | Fig.1  | Fig.2  | Fig.3  |
|      |                         |         | 3        | 1       | 0         | Fig.4  | Fig.5  | Fig.6  |
|      |                         |         | 5        | 1       | 0         | Fig.7  | Fig.8  | Fig.9  |
|      |                         |         | 10       | 1       | 0         | Fig.10 | Fig.11 | Fig.12 |
|      |                         |         | 15       | 1       | 0         | Fig.13 | Fig.14 | Fig.15 |
|      |                         |         | 20       | 1       | 0         | Fig.16 | Fig.17 | Fig.18 |



Fig.1



Fig.2

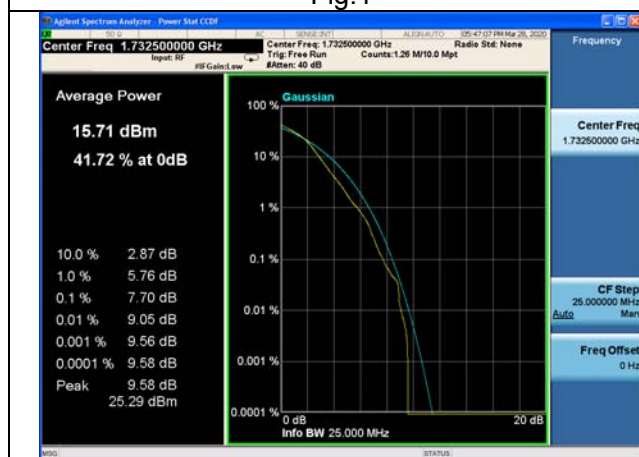


Fig.3



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

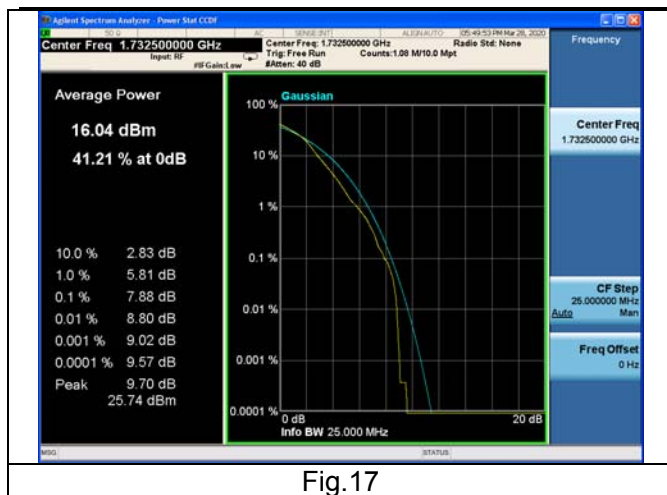


Fig.17

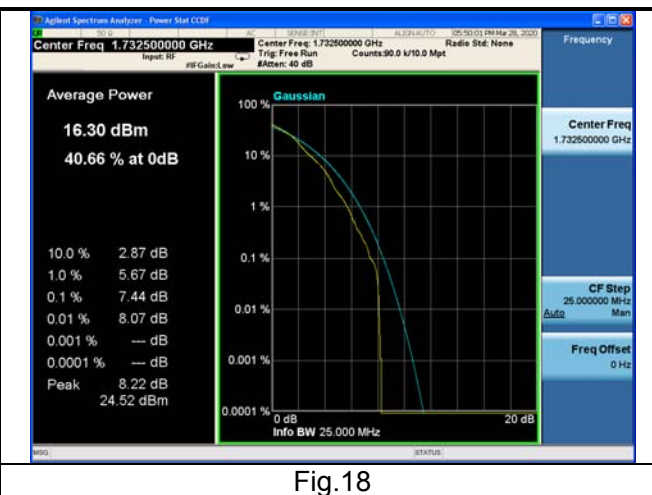


Fig.18

#### 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                 |

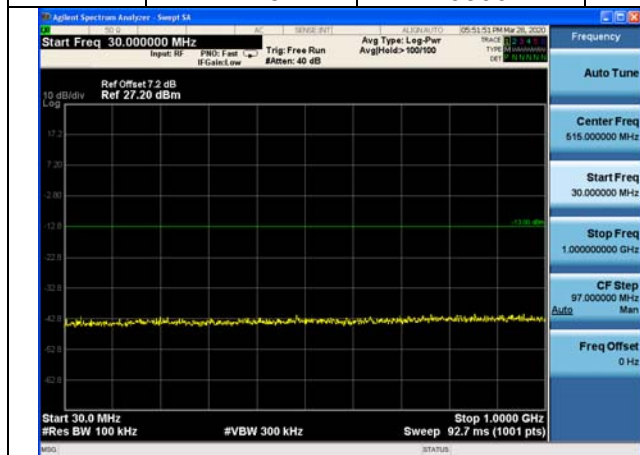


Fig.1

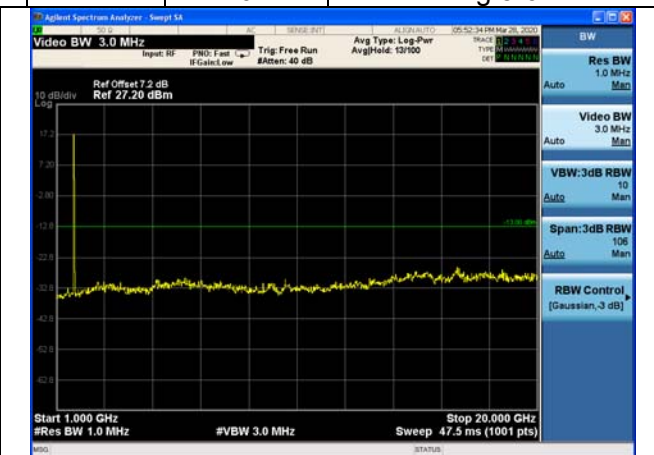


Fig.2

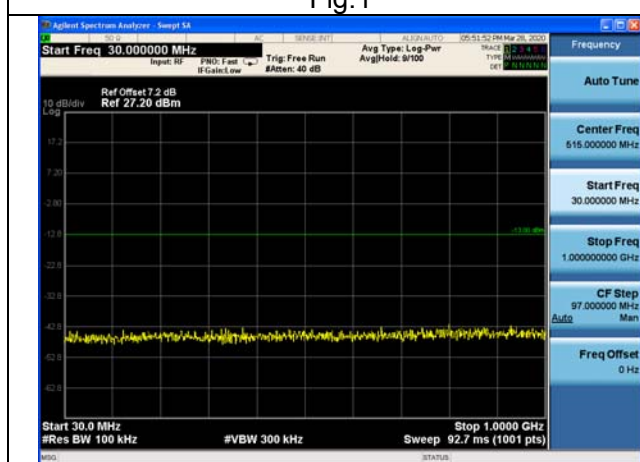


Fig3

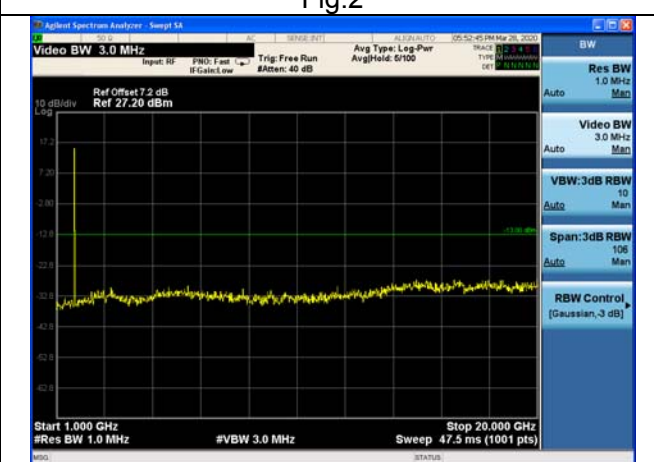


Fig4

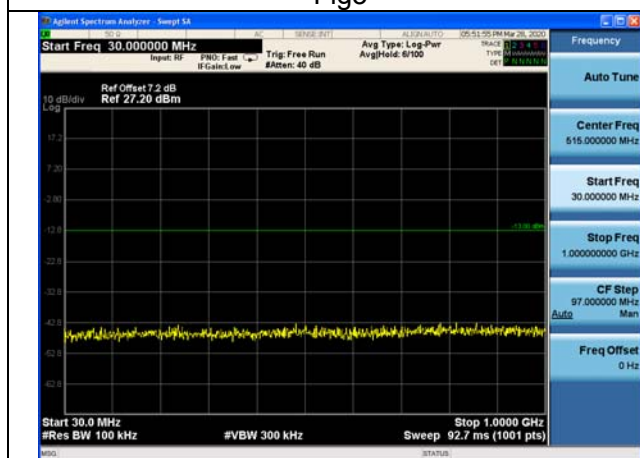


Fig5

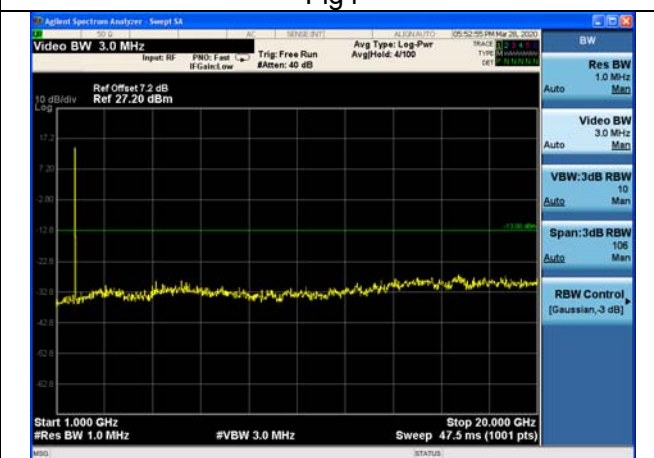


Fig6



## 5 Band Edges Compliance

Test result

| 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          |

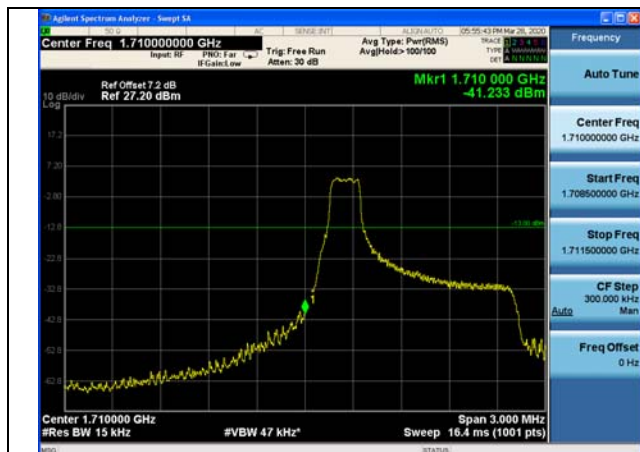


Fig.1



Fig.2

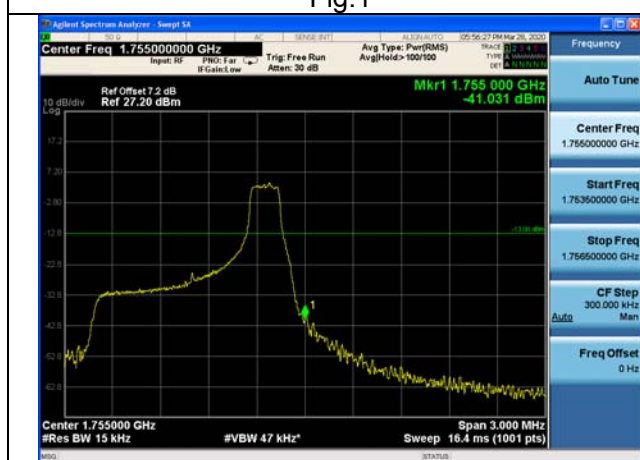


Fig.3



Fig.4

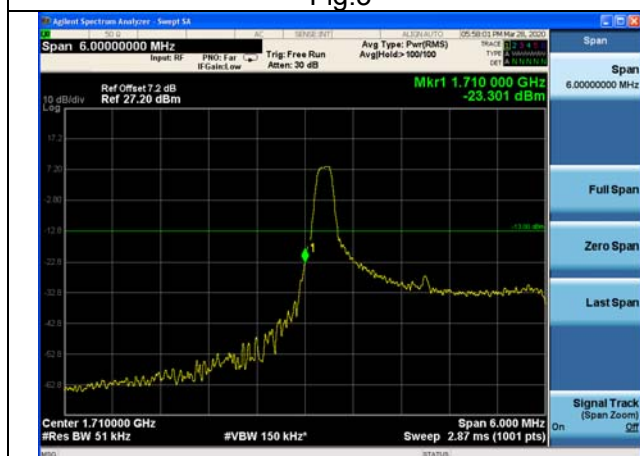


Fig.5

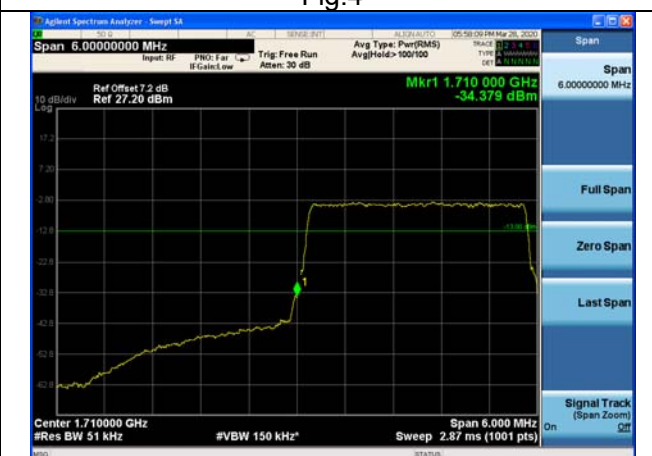


Fig.6

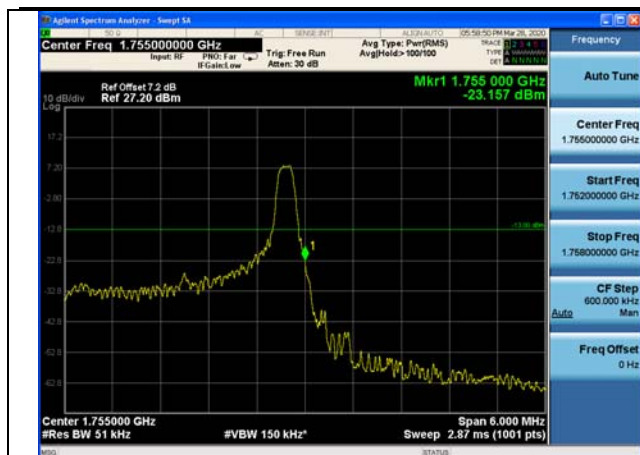


Fig.7



Fig.8

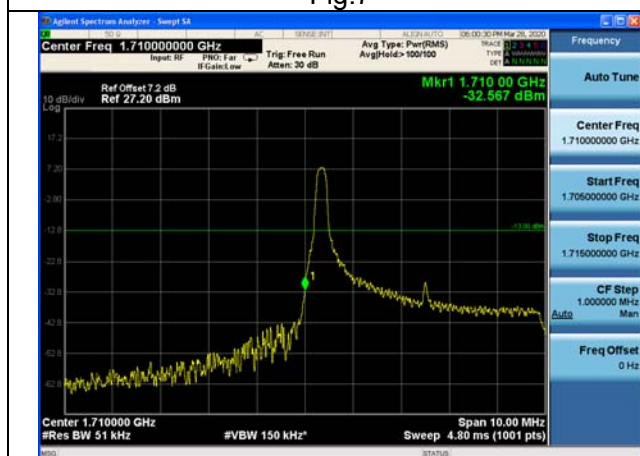


Fig.9

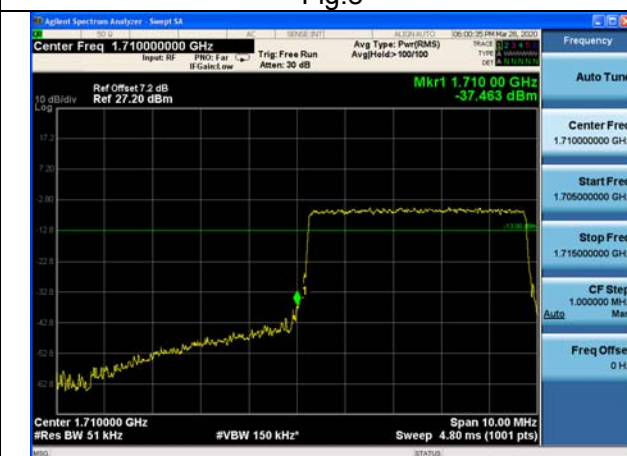


Fig.10

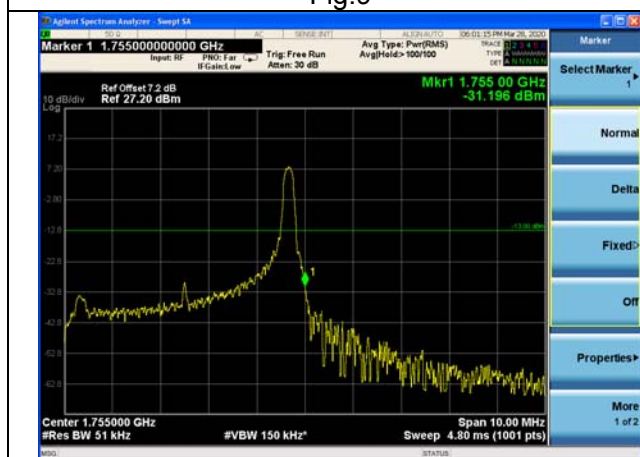


Fig.11

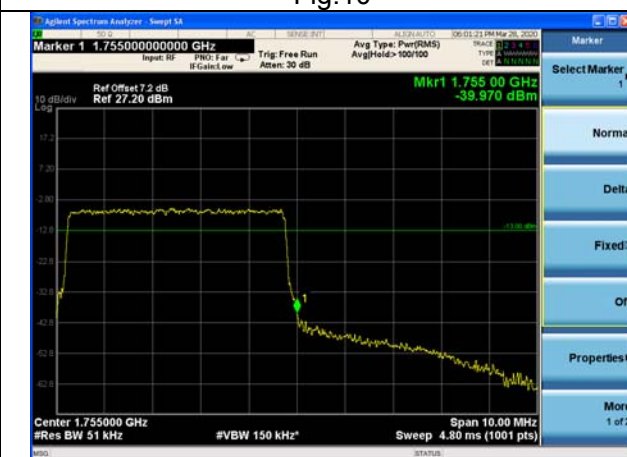


Fig.12

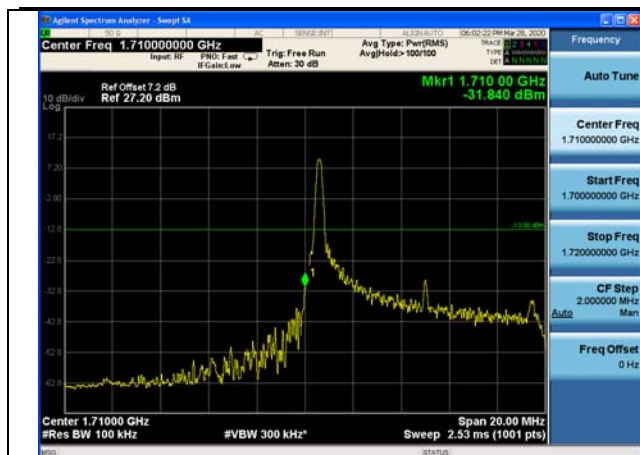


Fig.13

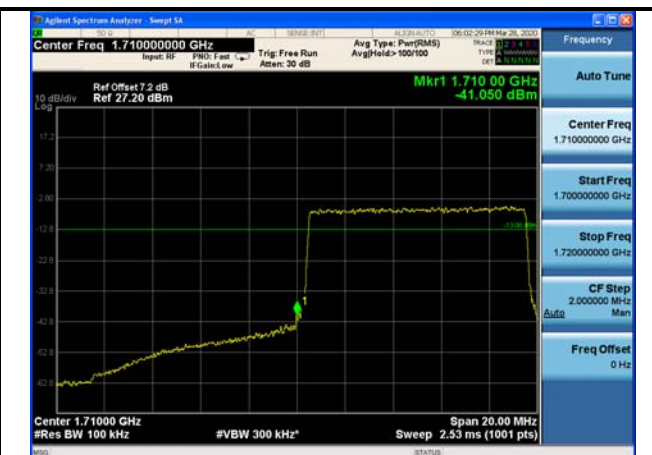


Fig.14

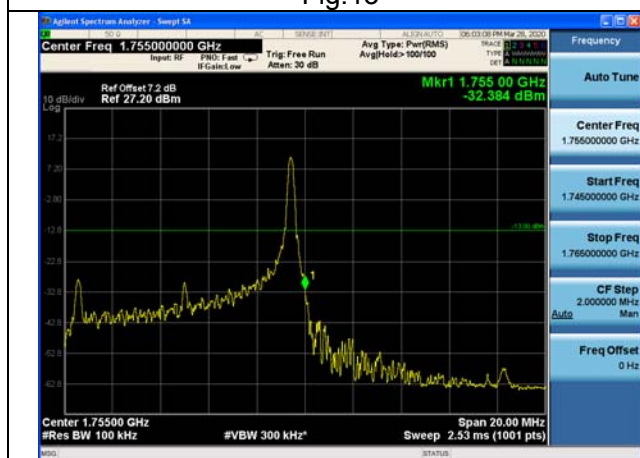


Fig.15

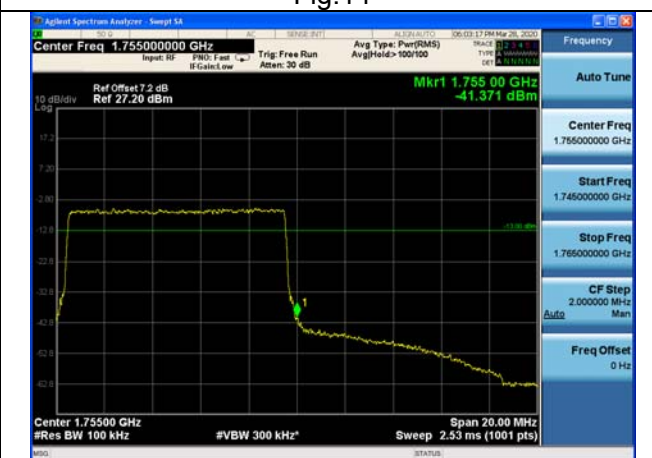


Fig.16

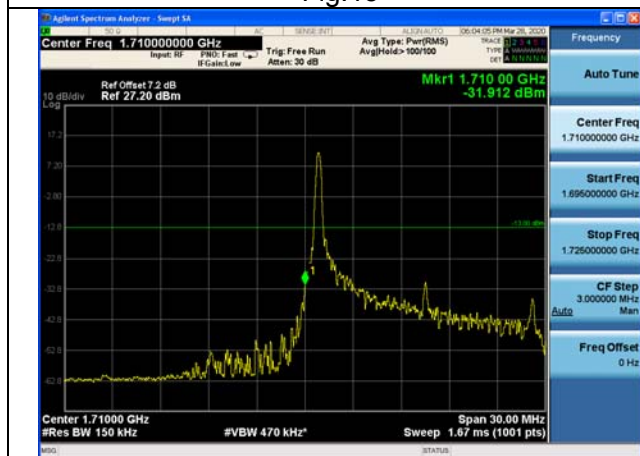


Fig.17

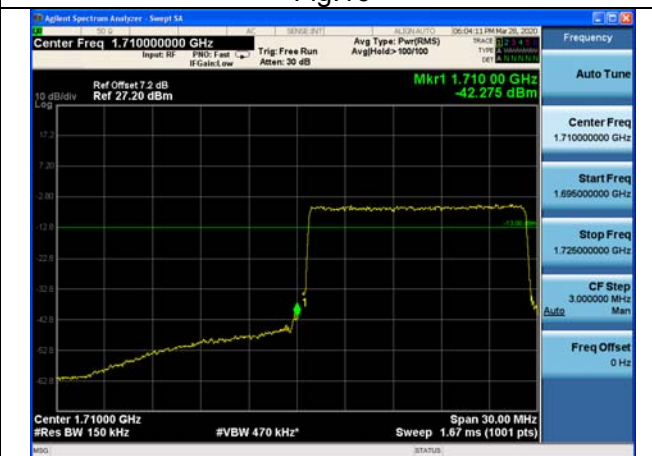


Fig.18

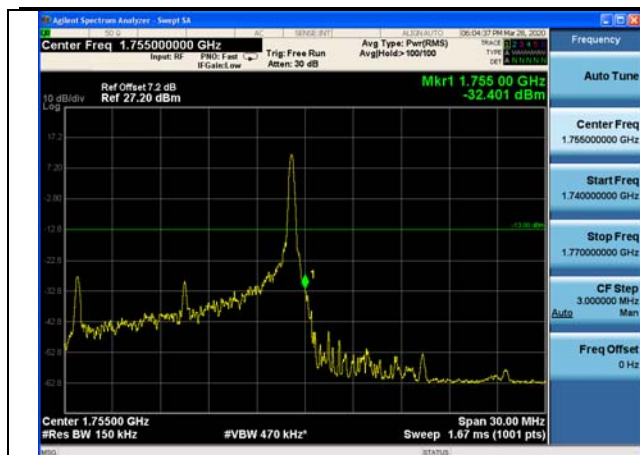


Fig.19

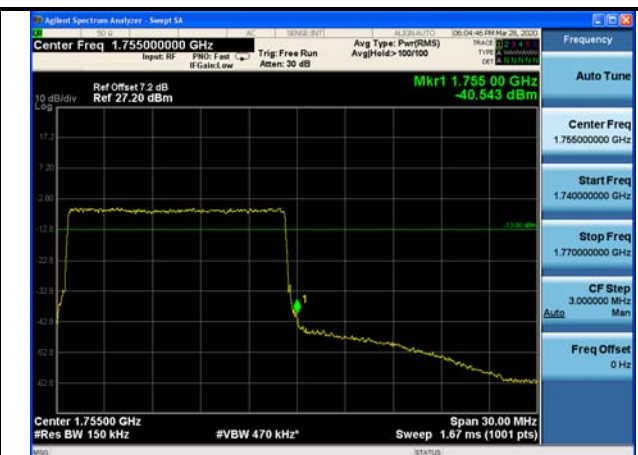


Fig.20



Fig.21

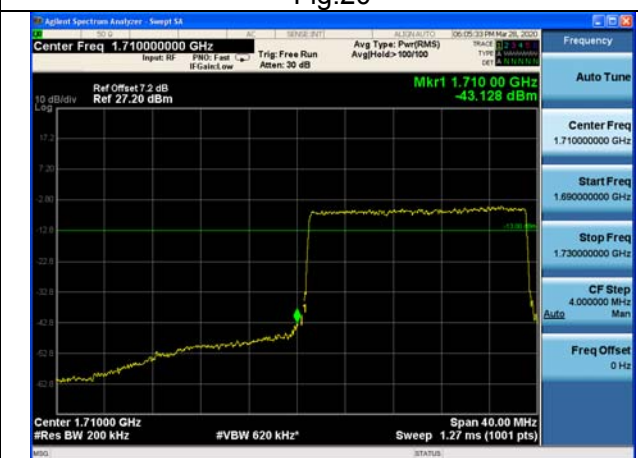


Fig.22



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    |
| 0               | NV      | 0.074                               | -0.006 | 0.061  | -0.026 | 0.050  | 0.036  |
| +10             | NV      | 0.026                               | -0.002 | -0.004 | 0.049  | -0.022 | -0.034 |
| +20             | NV      | 0.000                               | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  |
| +30             | NV      | 0.000                               | -0.008 | 0.033  | 0.054  | -0.045 | -0.034 |
| +40             | NV      | 0.033                               | 0.008  | 0.088  | 0.021  | -0.006 | 0.015  |
| +50             | NV      | 0.056                               | 0.021  | 0.026  | -0.039 | 0.043  | -0.019 |
| +55             | NV      | -0.045                              | -0.005 | 0.065  | -0.024 | 0.054  | -0.033 |
| +20             | LV      | 0.059                               | 0.016  | 0.037  | -0.032 | -0.023 | 0.047  |
| +20             | HV      | -0.042                              | 0.037  | 0.033  | -0.049 | 0.071  | 0.057  |

| Temperature(°C) | Voltage | Test Result (ppm) Band4 High Channel |        |        |        |        |        |
|-----------------|---------|--------------------------------------|--------|--------|--------|--------|--------|
|                 |         | 1.4M                                 | 3M     | 5M     | 10M    | 15M    | 20M    |
| 0               | NV      | 0.061                                | -0.067 | 0.005  | -0.021 | 0.033  | 0.015  |
| +10             | NV      | 0.025                                | 0.032  | 0.006  | -0.014 | -0.042 | -0.020 |
| +20             | NV      | 0.000                                | 0.000  | 0.000  | 0.000  | 0.000  | 0.000  |
| +30             | NV      | -0.019                               | 0.046  | 0.027  | 0.052  | 0.023  | 0.045  |
| +40             | NV      | 0.067                                | 0.046  | -0.020 | -0.033 | 0.053  | -0.031 |
| +50             | NV      | 0.059                                | 0.061  | 0.062  | 0.017  | 0.037  | -0.035 |
| +55             | NV      | -0.003                               | -0.039 | -0.042 | 0.021  | 0.046  | 0.060  |
| +20             | LV      | -0.039                               | 0.028  | -0.003 | -0.012 | 0.046  | -0.082 |
| +20             | HV      | -0.035                               | 0.061  | 0.065  | 0.077  | -0.001 | 0.060  |

**LTE Band 5**  
**1 RF Power Output**

| Modulation | Carrier frequency (MHz) | UL Channel | BW  | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|-----|---------|-----------|-----------------------|
| QPSK       | 824.7                   | 20407      | 1.4 | 1       | 0         | 22.92                 |
|            |                         |            |     | 1       | 5         | 22.85                 |
|            |                         |            |     | 3       | 2         | 22.19                 |
|            |                         |            |     | 6       | 0         | 22.18                 |
|            | 836.5                   | 20525      |     | 1       | 0         | 22.57                 |
|            |                         |            |     | 1       | 5         | 22.58                 |
|            |                         |            |     | 3       | 2         | 22.22                 |
|            |                         |            |     | 6       | 0         | 22.07                 |
|            | 848.3                   | 20643      |     | 1       | 0         | 22.76                 |
|            |                         |            |     | 1       | 5         | 22.75                 |
|            |                         |            |     | 3       | 2         | 22.22                 |
|            |                         |            |     | 6       | 0         | 22.14                 |
| 16QAM      | 824.7                   | 20407      | 1.4 | 1       | 0         | 22.51                 |
|            |                         |            |     | 1       | 5         | 22.48                 |
|            |                         |            |     | 3       | 2         | 21.20                 |
|            |                         |            |     | 6       | 0         | 21.20                 |
|            | 836.5                   | 20525      |     | 1       | 0         | 22.51                 |
|            |                         |            |     | 1       | 5         | 22.49                 |
|            |                         |            |     | 3       | 2         | 21.35                 |
|            |                         |            |     | 6       | 0         | 21.20                 |
|            | 848.3                   | 20643      |     | 1       | 0         | 22.46                 |
|            |                         |            |     | 1       | 5         | 22.42                 |
|            |                         |            |     | 3       | 2         | 21.43                 |
|            |                         |            |     | 6       | 0         | 21.35                 |
| 64QAM      | 824.7                   | 20407      | 1.4 | 1       | 0         | 22.48                 |
|            |                         |            |     | 1       | 5         | 22.52                 |
|            |                         |            |     | 3       | 2         | 21.13                 |
|            |                         |            |     | 6       | 0         | 21.04                 |
|            | 836.5                   | 20525      |     | 1       | 0         | 22.48                 |
|            |                         |            |     | 1       | 5         | 22.48                 |
|            |                         |            |     | 3       | 2         | 21.34                 |
|            |                         |            |     | 6       | 0         | 21.28                 |
|            | 848.3                   | 20643      |     | 1       | 0         | 22.24                 |
|            |                         |            |     | 1       | 5         | 22.24                 |
|            |                         |            |     | 3       | 2         | 21.42                 |
|            |                         |            |     | 6       | 0         | 21.36                 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| QPSK       | 825.5                   | 20415      | 3  | 1       | 0         | 22.86                 |
|            |                         |            |    | 1       | 14        | 22.88                 |
|            |                         |            |    | 8       | 4         | 22.17                 |
|            |                         |            |    | 15      | 0         | 22.06                 |
|            | 836.5                   | 20525      |    | 1       | 0         | 22.52                 |
|            |                         |            |    | 1       | 14        | 22.55                 |
|            |                         |            |    | 8       | 4         | 22.18                 |
|            |                         |            |    | 15      | 0         | 21.98                 |
|            | 847.5                   | 20635      |    | 1       | 0         | 22.75                 |
|            |                         |            |    | 1       | 14        | 22.70                 |
|            |                         |            |    | 8       | 4         | 22.13                 |
|            |                         |            |    | 15      | 0         | 22.04                 |
| 16QAM      | 825.5                   | 20415      | 3  | 1       | 0         | 22.46                 |
|            |                         |            |    | 1       | 14        | 22.50                 |
|            |                         |            |    | 8       | 4         | 21.21                 |
|            |                         |            |    | 15      | 0         | 21.23                 |
|            | 836.5                   | 20525      |    | 1       | 0         | 22.48                 |
|            |                         |            |    | 1       | 14        | 22.52                 |
|            |                         |            |    | 8       | 4         | 21.30                 |
|            |                         |            |    | 15      | 0         | 21.16                 |
|            | 847.5                   | 20635      |    | 1       | 0         | 22.40                 |
|            |                         |            |    | 1       | 14        | 22.43                 |
|            |                         |            |    | 8       | 4         | 21.40                 |
|            |                         |            |    | 15      | 0         | 21.26                 |
| 64QAM      | 825.5                   | 20415      | 3  | 1       | 0         | 22.49                 |
|            |                         |            |    | 1       | 14        | 22.51                 |
|            |                         |            |    | 8       | 4         | 21.17                 |
|            |                         |            |    | 15      | 0         | 21.07                 |
|            | 836.5                   | 20525      |    | 1       | 0         | 22.34                 |
|            |                         |            |    | 1       | 14        | 22.36                 |
|            |                         |            |    | 8       | 4         | 21.34                 |
|            |                         |            |    | 15      | 0         | 21.37                 |
|            | 847.5                   | 20635      |    | 1       | 0         | 22.25                 |
|            |                         |            |    | 1       | 14        | 22.28                 |
|            |                         |            |    | 8       | 4         | 21.37                 |
|            |                         |            |    | 15      | 0         | 21.30                 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| QPSK       | 826.5                   | 20425      | 5  | 1       | 0         | 22.97                 |
|            |                         |            |    | 1       | 24        | 22.96                 |
|            |                         |            |    | 12      | 6         | 22.21                 |
|            |                         |            |    | 25      | 0         | 22.13                 |
|            | 836.5                   | 20525      |    | 1       | 0         | 22.64                 |
|            |                         |            |    | 1       | 24        | 22.59                 |
|            |                         |            |    | 12      | 6         | 22.17                 |
|            |                         |            |    | 25      | 0         | 22.13                 |
|            | 846.5                   | 20625      |    | 1       | 0         | 22.74                 |
|            |                         |            |    | 1       | 24        | 22.84                 |
|            |                         |            |    | 12      | 6         | 22.23                 |
|            |                         |            |    | 25      | 0         | 22.12                 |
| 16QAM      | 826.5                   | 20425      | 5  | 1       | 0         | 22.42                 |
|            |                         |            |    | 1       | 24        | 22.46                 |
|            |                         |            |    | 12      | 6         | 21.22                 |
|            |                         |            |    | 25      | 0         | 21.17                 |
|            | 836.5                   | 20525      |    | 1       | 0         | 22.55                 |
|            |                         |            |    | 1       | 24        | 22.47                 |
|            |                         |            |    | 12      | 6         | 21.43                 |
|            |                         |            |    | 25      | 0         | 21.15                 |
|            | 846.5                   | 20625      |    | 1       | 0         | 22.38                 |
|            |                         |            |    | 1       | 24        | 22.34                 |
|            |                         |            |    | 12      | 6         | 21.49                 |
|            |                         |            |    | 25      | 0         | 21.36                 |
| 64QAM      | 826.5                   | 20425      | 5  | 1       | 0         | 22.41                 |
|            |                         |            |    | 1       | 24        | 22.49                 |
|            |                         |            |    | 12      | 6         | 21.14                 |
|            |                         |            |    | 25      | 0         | 21.17                 |
|            | 836.5                   | 20525      |    | 1       | 0         | 22.44                 |
|            |                         |            |    | 1       | 24        | 22.42                 |
|            |                         |            |    | 12      | 6         | 21.27                 |
|            |                         |            |    | 25      | 0         | 21.33                 |
|            | 846.5                   | 20625      |    | 1       | 0         | 22.37                 |
|            |                         |            |    | 1       | 24        | 22.30                 |
|            |                         |            |    | 12      | 6         | 21.39                 |
|            |                         |            |    | 25      | 0         | 21.22                 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| QPSK       | 829                     | 20450      | 10 | 1       | 0         | 22.98                 |
|            |                         |            |    | 1       | 49        | 22.98                 |
|            |                         |            |    | 24      | 12        | 22.24                 |
|            |                         |            |    | 50      | 0         | 22.21                 |
|            | 836.5                   | 20525      |    | 1       | 0         | 22.65                 |
|            |                         |            |    | 1       | 49        | 22.65                 |
|            |                         |            |    | 24      | 12        | 22.29                 |
|            |                         |            |    | 50      | 0         | 22.13                 |
|            | 844                     | 20600      |    | 1       | 0         | 22.84                 |
|            |                         |            |    | 1       | 49        | 22.84                 |
|            |                         |            |    | 24      | 12        | 22.26                 |
|            |                         |            |    | 50      | 0         | 22.18                 |
| 16QAM      | 829                     | 20450      | 10 | 1       | 0         | 22.56                 |
|            |                         |            |    | 1       | 49        | 22.56                 |
|            |                         |            |    | 24      | 12        | 21.32                 |
|            |                         |            |    | 50      | 0         | 21.23                 |
|            | 836.5                   | 20525      |    | 1       | 0         | 22.57                 |
|            |                         |            |    | 1       | 49        | 22.57                 |
|            |                         |            |    | 24      | 12        | 21.45                 |
|            |                         |            |    | 50      | 0         | 21.24                 |
|            | 844                     | 20600      |    | 1       | 0         | 22.47                 |
|            |                         |            |    | 1       | 49        | 22.47                 |
|            |                         |            |    | 24      | 12        | 21.55                 |
|            |                         |            |    | 50      | 0         | 21.38                 |
| 64QAM      | 829                     | 20450      | 10 | 1       | 0         | 22.54                 |
|            |                         |            |    | 1       | 49        | 22.54                 |
|            |                         |            |    | 24      | 12        | 21.27                 |
|            |                         |            |    | 50      | 0         | 21.18                 |
|            | 836.5                   | 20525      |    | 1       | 0         | 22.49                 |
|            |                         |            |    | 1       | 49        | 22.49                 |
|            |                         |            |    | 24      | 12        | 21.42                 |
|            |                         |            |    | 50      | 0         | 21.38                 |
|            | 844                     | 20600      |    | 1       | 0         | 22.38                 |
|            |                         |            |    | 1       | 49        | 22.38                 |
|            |                         |            |    | 24      | 12        | 21.47                 |
|            |                         |            |    | 50      | 0         | 21.36                 |



## 2 Occupied Bandwidth

Test result

| 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         | 1.0825                       | Fig.1  | 1.0813 | Fig.2  | 1.0838 | Fig.3  |
|      | 836.5                   | 20525   |          | 6       | 0         | 1.0823                       | Fig.4  | 1.0837 | Fig.5  | 1.0851 | Fig.6  |
|      | 848.3                   | 20643   |          | 6       | 0         | 1.0819                       | Fig.7  | 1.0829 | Fig.8  | 1.0795 | Fig.9  |
|      | 825.5                   | 20415   | 3        | 15      | 0         | 2.7018                       | Fig.10 | 2.6961 | Fig.11 | 2.7006 | Fig.12 |
|      | 836.5                   | 20525   |          | 15      | 0         | 2.7002                       | Fig.13 | 2.6984 | Fig.14 | 2.7030 | Fig.15 |
|      | 847.5                   | 20635   |          | 15      | 0         | 2.7120                       | Fig.16 | 2.7061 | Fig.17 | 2.6989 | Fig.18 |
|      | 826.5                   | 20425   | 5        | 25      | 0         | 4.4795                       | Fig.19 | 4.4820 | Fig.20 | 4.4829 | Fig.21 |
|      | 836.5                   | 20525   |          | 25      | 0         | 4.4855                       | Fig.22 | 4.4769 | Fig.23 | 4.4813 | Fig.24 |
|      | 846.5                   | 20625   |          | 25      | 0         | 4.4861                       | Fig.25 | 4.4840 | Fig.26 | 4.4818 | Fig.27 |
|      | 829                     | 20450   | 10       | 50      | 0         | 8.9672                       | Fig.28 | 8.9483 | Fig.29 | 8.9510 | Fig.30 |
|      | 836.5                   | 20525   |          | 50      | 0         | 8.9694                       | Fig.31 | 8.9508 | Fig.32 | 8.9697 | Fig.33 |
|      | 844                     | 20600   |          | 50      | 0         | 8.9557                       | Fig.34 | 8.9553 | Fig.35 | 8.9719 | Fig.36 |

| 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         | 1.264                                      | Fig.1  | 1.240  | Fig.2  | 1.228  | Fig.3  |
|      | 836.5                   | 20525   |          | 6       | 0         | 1.260                                      | Fig.4  | 1.235  | Fig.5  | 1.227  | Fig.6  |
|      | 848.3                   | 20643   |          | 6       | 0         | 1.239                                      | Fig.7  | 1.244  | Fig.8  | 1.220  | Fig.9  |
|      | 825.5                   | 20415   | 3        | 15      | 0         | 3.024                                      | Fig.10 | 3.007  | Fig.11 | 3.056  | Fig.12 |
|      | 836.5                   | 20525   |          | 15      | 0         | 3.021                                      | Fig.13 | 3.001  | Fig.14 | 3.023  | Fig.15 |
|      | 847.5                   | 20635   |          | 15      | 0         | 3.041                                      | Fig.16 | 3.040  | Fig.17 | 3.026  | Fig.18 |
|      | 826.5                   | 20425   | 5        | 25      | 0         | 5.020                                      | Fig.19 | 5.015  | Fig.20 | 5.019  | Fig.21 |
|      | 836.5                   | 20525   |          | 25      | 0         | 5.108                                      | Fig.22 | 5.155  | Fig.23 | 5.033  | Fig.24 |
|      | 846.5                   | 20625   |          | 25      | 0         | 5.122                                      | Fig.25 | 5.032  | Fig.26 | 5.054  | Fig.27 |
|      | 829                     | 20450   | 10       | 50      | 0         | 9.968                                      | Fig.28 | 9.775  | Fig.29 | 9.832  | Fig.30 |
|      | 836.5                   | 20525   |          | 50      | 0         | 9.846                                      | Fig.31 | 9.881  | Fig.32 | 9.754  | Fig.33 |
|      | 844                     | 20600   |          | 50      | 0         | 9.927                                      | Fig.34 | 10.06  | Fig.35 | 9.729  | Fig.36 |

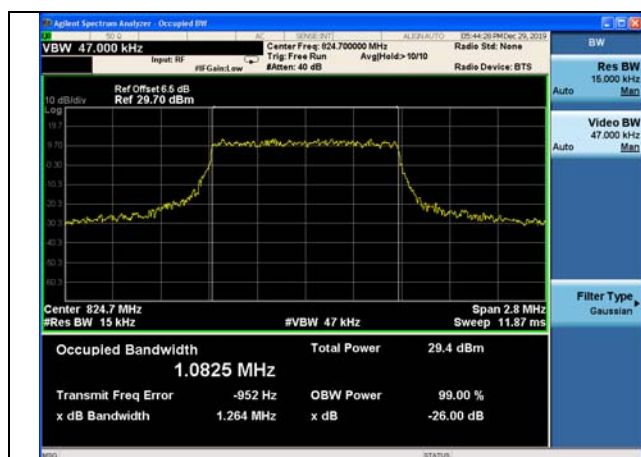


Fig.1

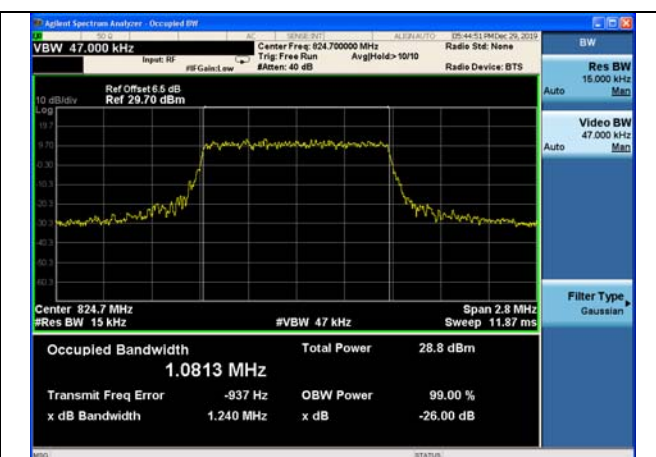


Fig.2

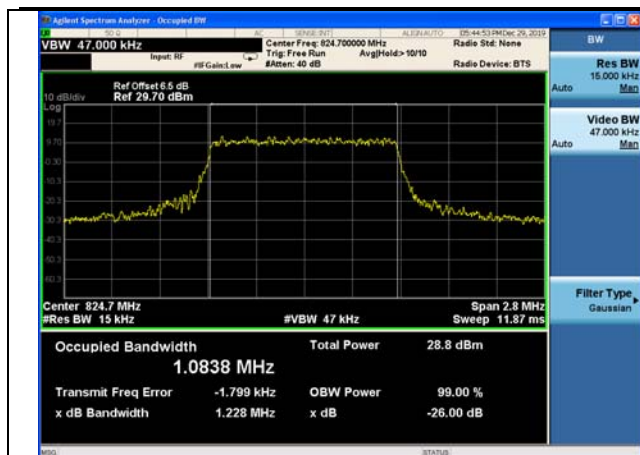


Fig.3

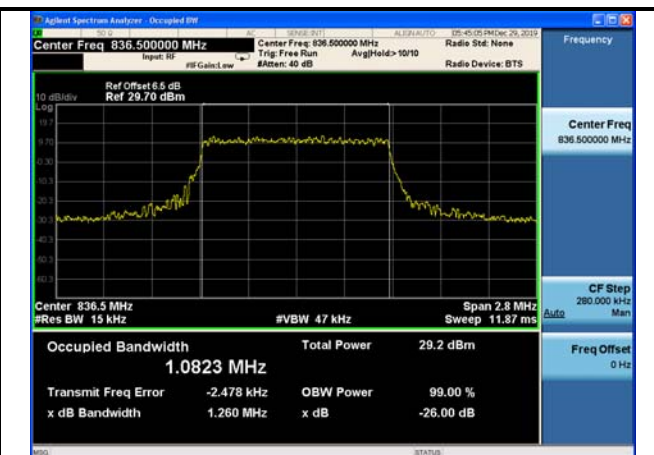


Fig.4



Fig.5

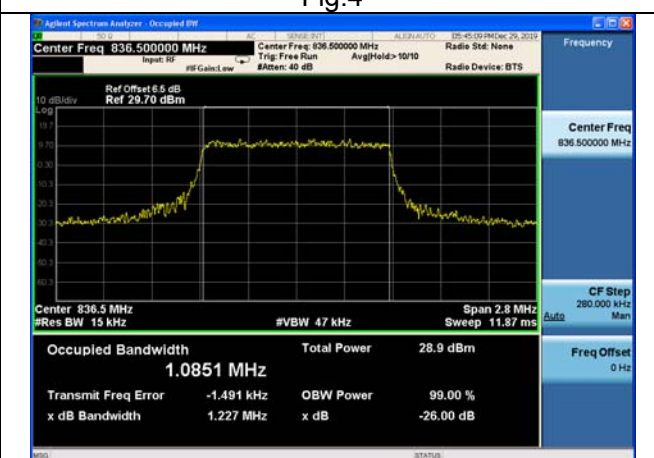


Fig.6

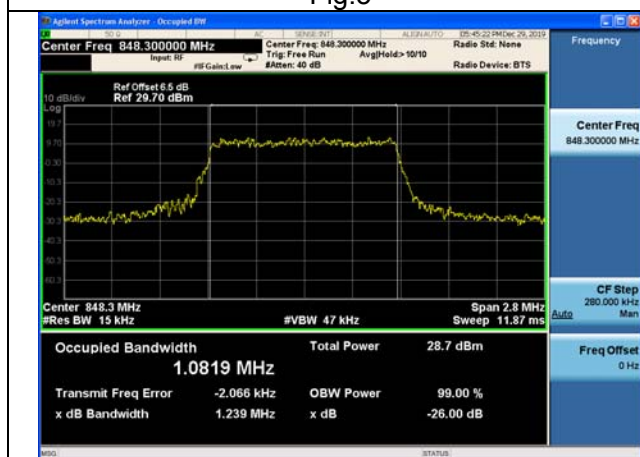


Fig.7

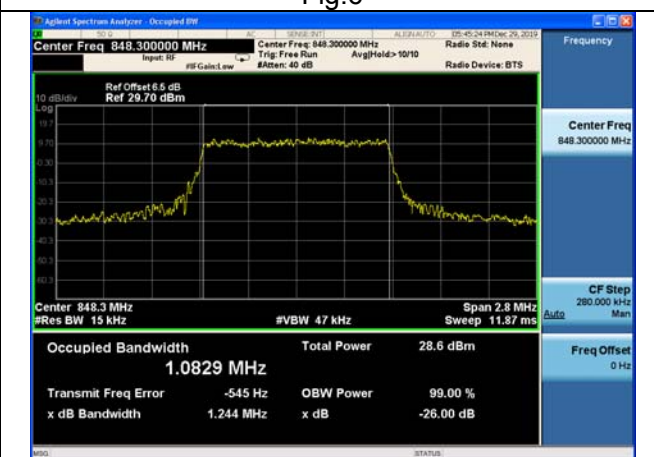


Fig.8

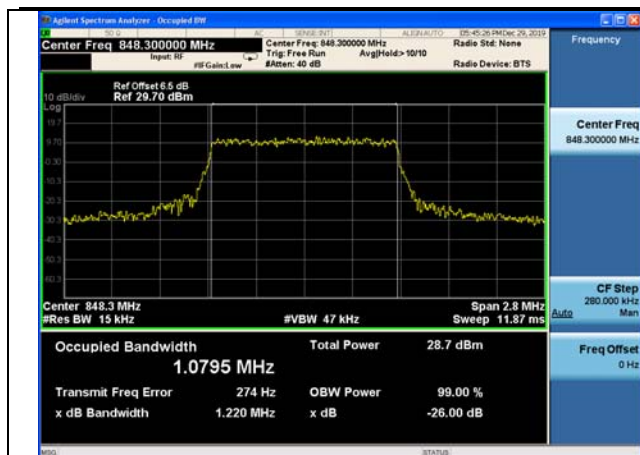


Fig.9

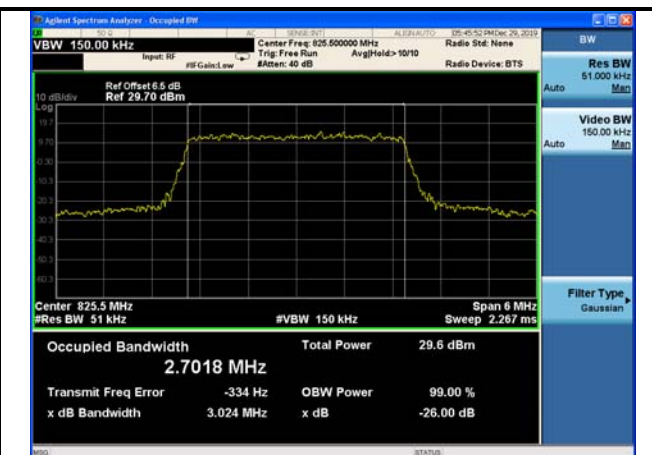


Fig.10



Fig.11

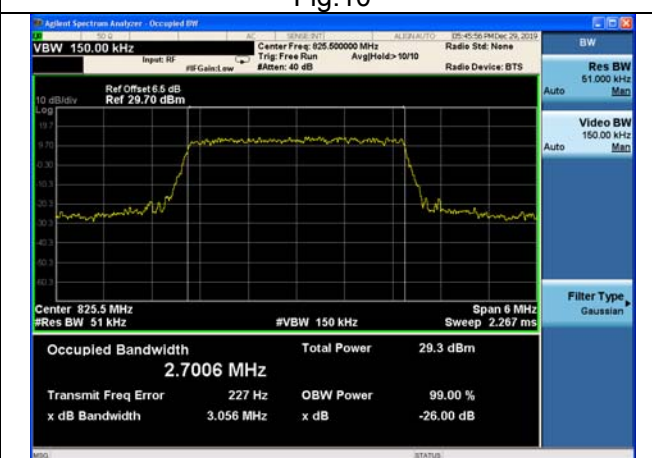


Fig.12

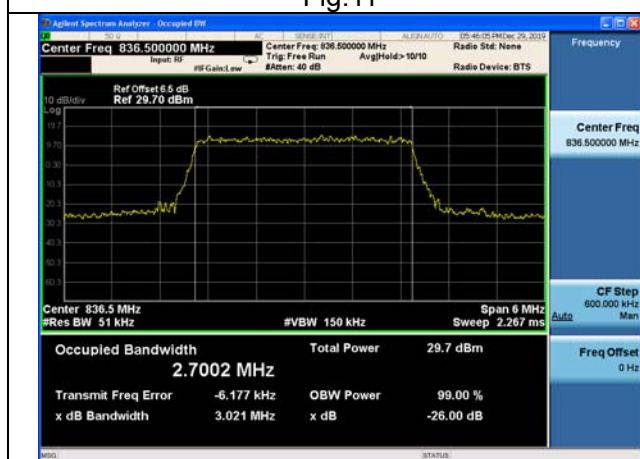


Fig.13

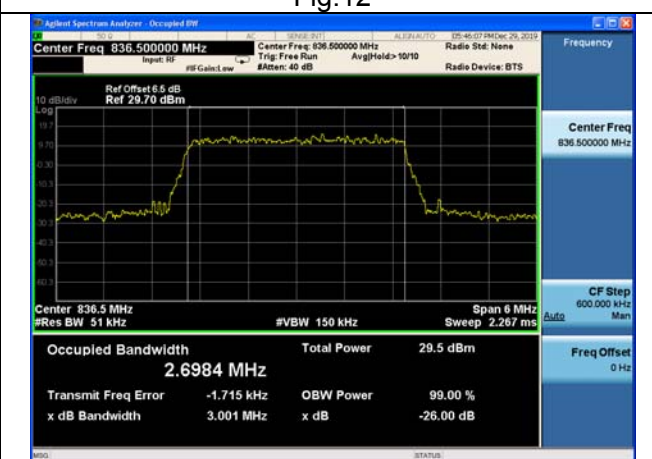


Fig.14

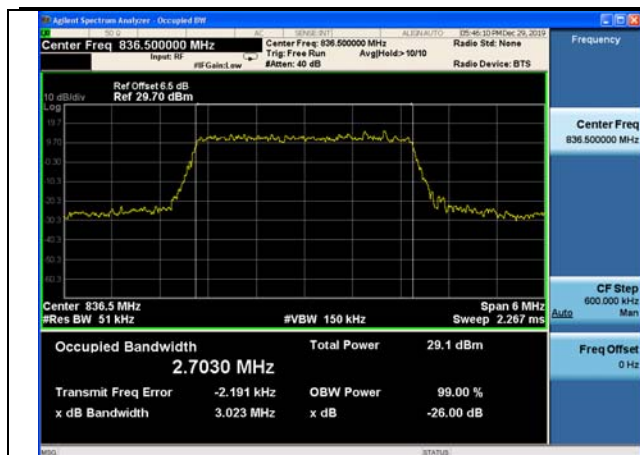


Fig.15

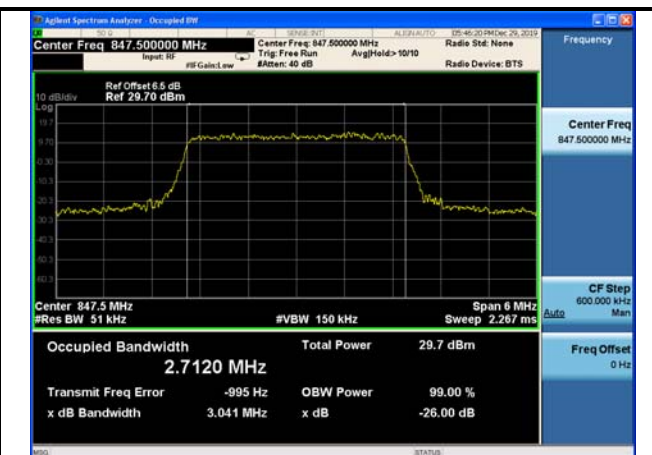


Fig.16

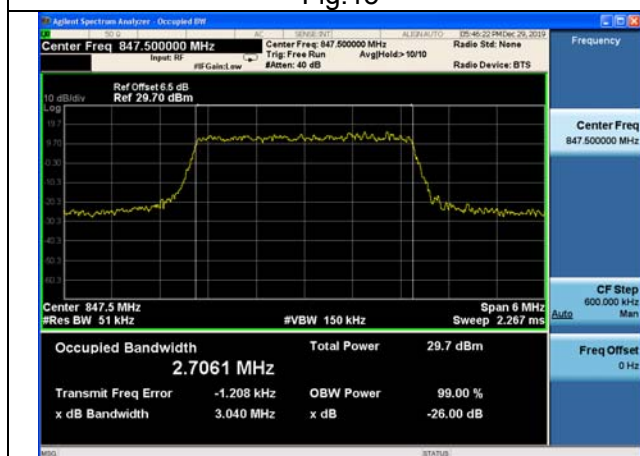


Fig.17

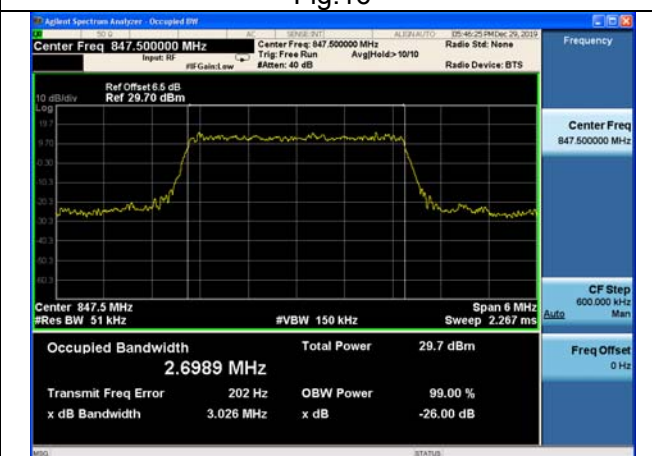


Fig.18

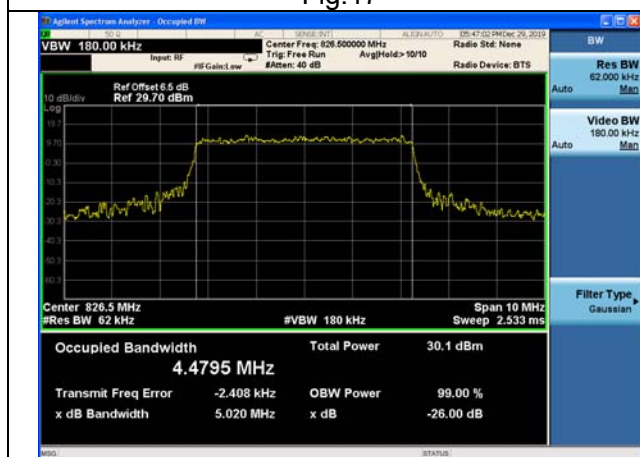


Fig.19

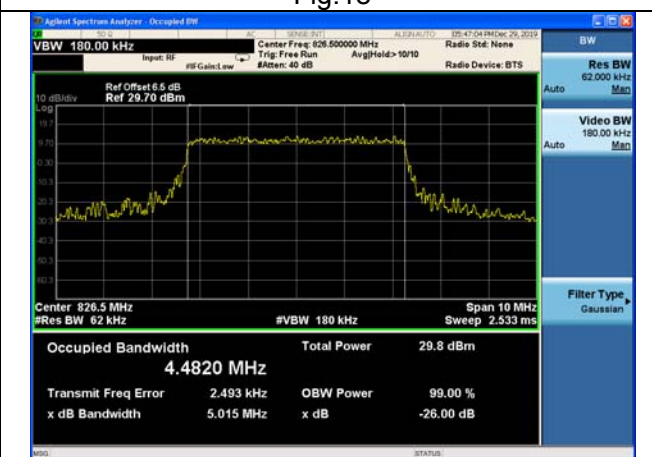


Fig.20



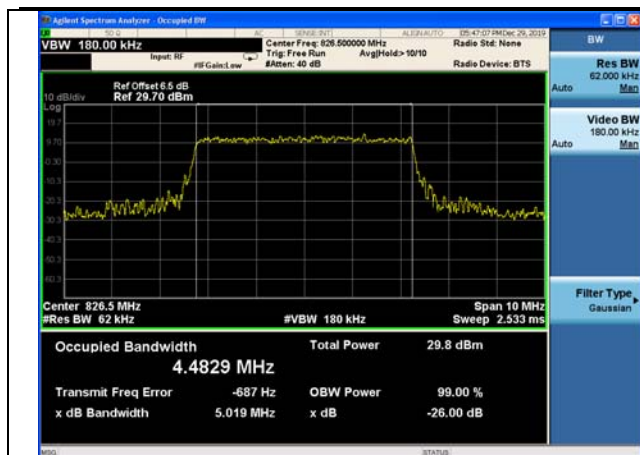


Fig.21

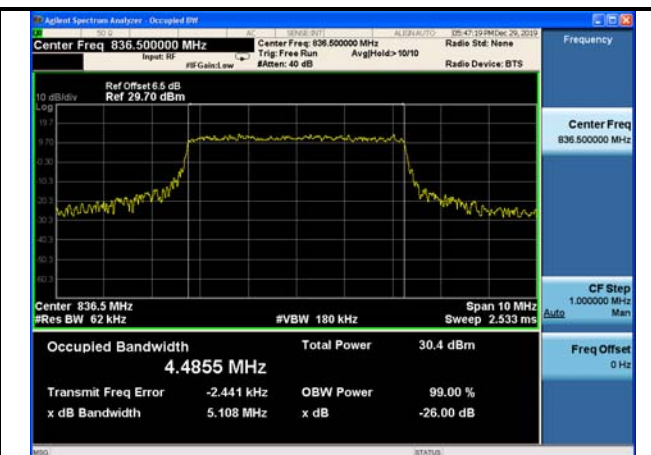


Fig.22



Fig.23

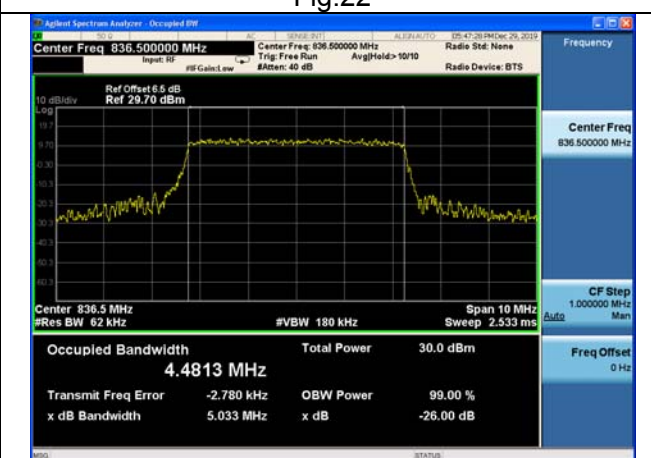


Fig.24

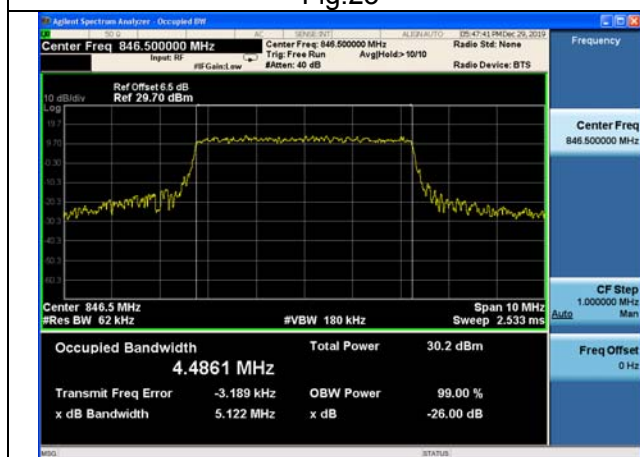


Fig.25

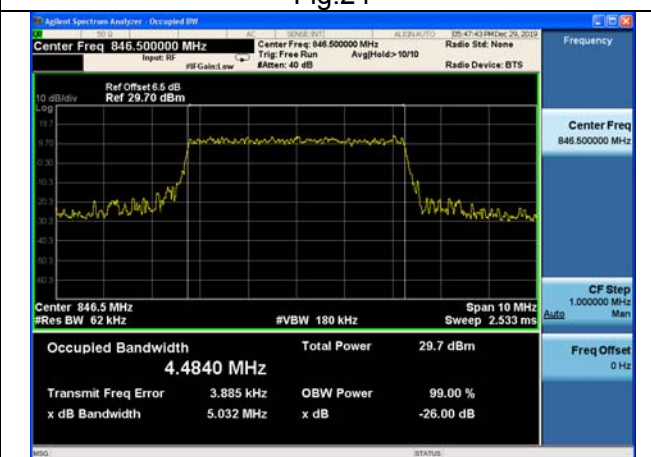


Fig.26

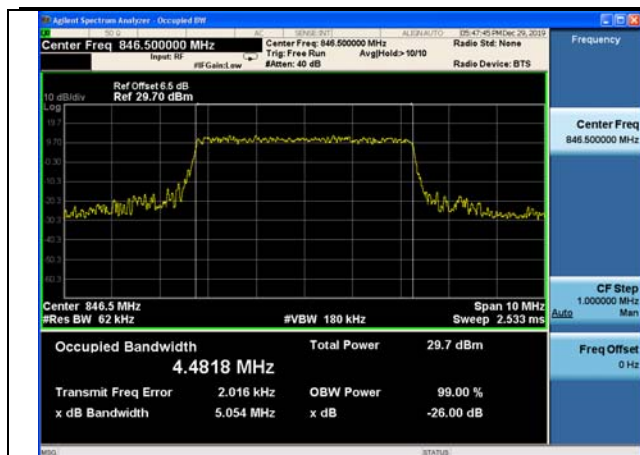


Fig.27

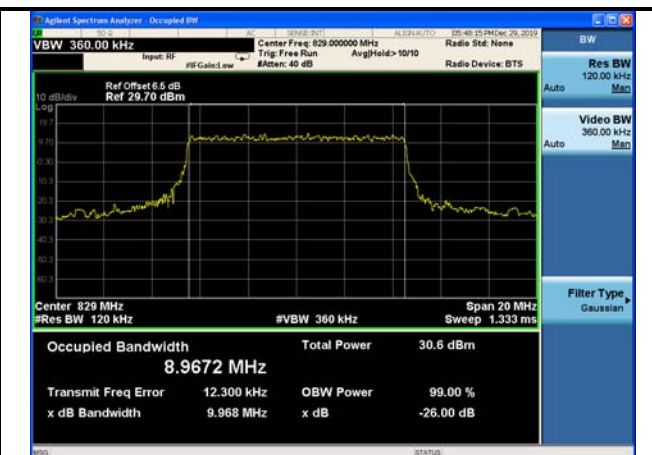


Fig.28

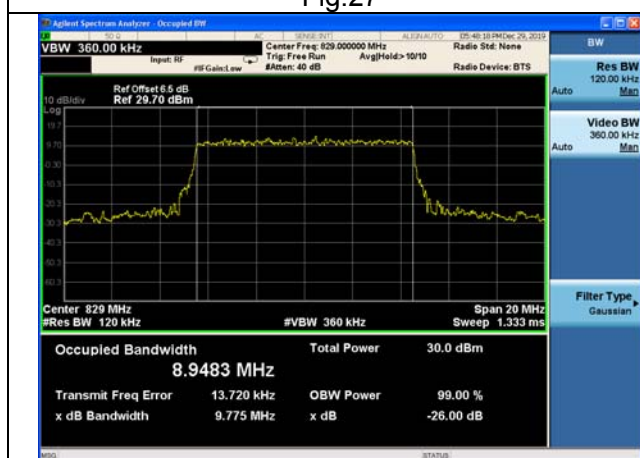


Fig.29

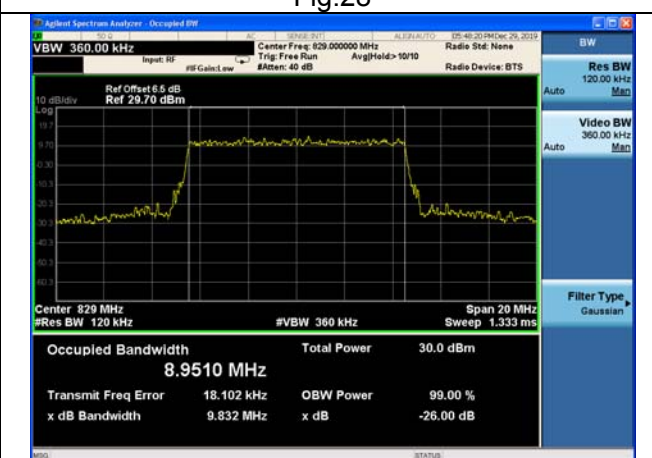


Fig.30

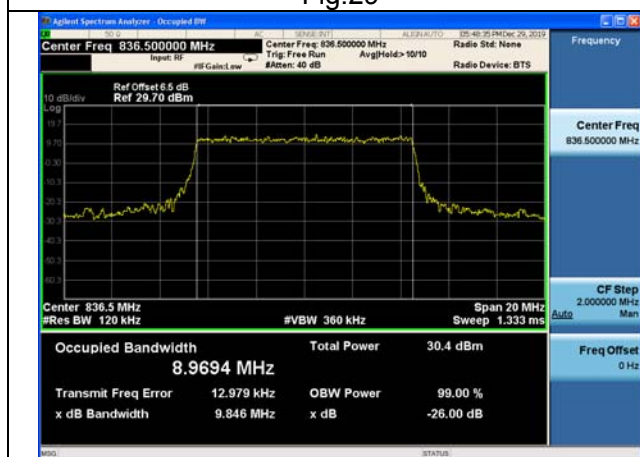


Fig.31

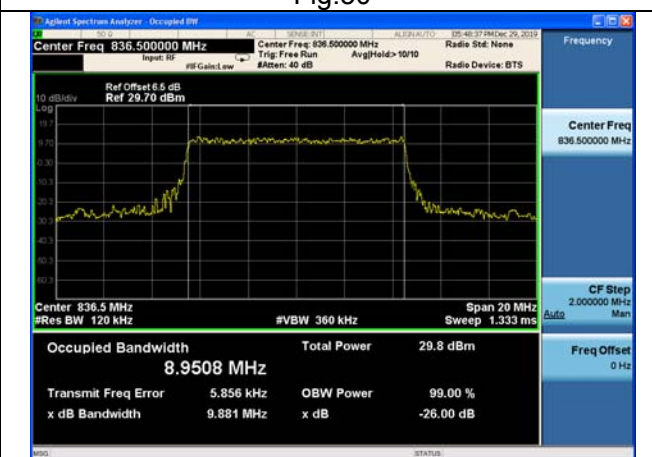


Fig.32



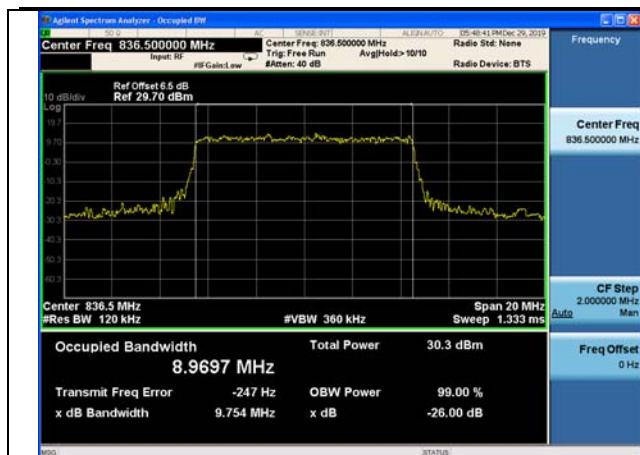


Fig.33

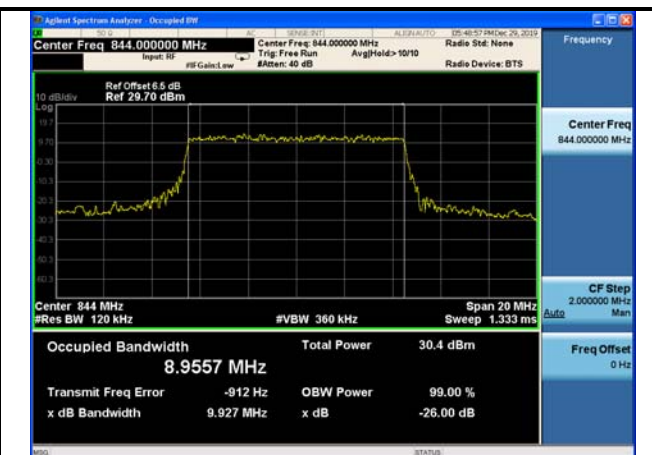


Fig.34

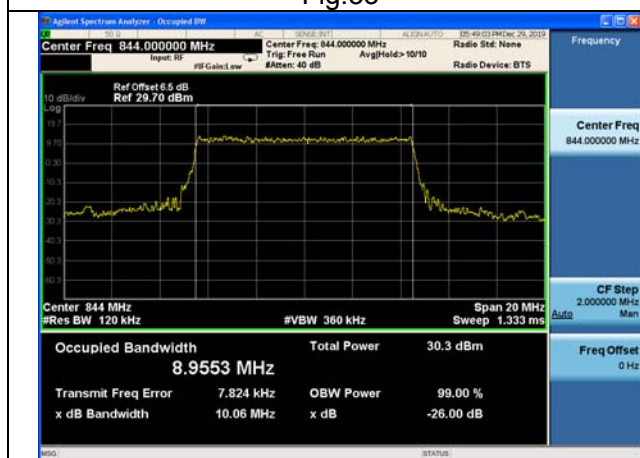


Fig.35

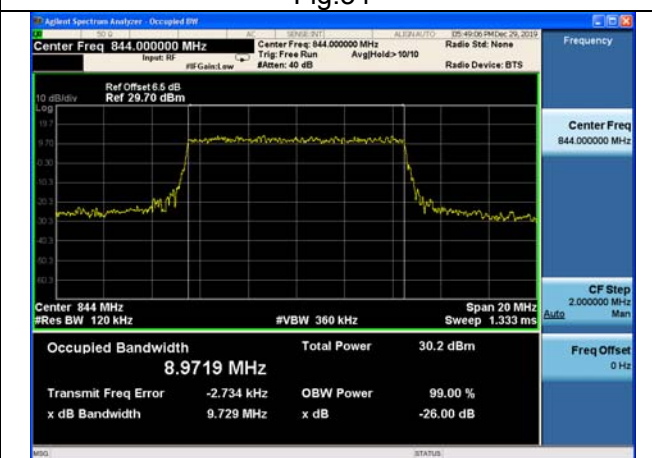


Fig.36

### 3 Peak-Average Ratio

| Band | Carrier frequency (MHz) | Channel | BW (MHz) | RB Size | RB Offset | QPSK   | 16-QAM | 64-QAM |
|------|-------------------------|---------|----------|---------|-----------|--------|--------|--------|
| 5    | 836.5                   | 20525   | 1.4      | 1       | 0         | Fig.1  | Fig.2  | Fig.3  |
|      |                         |         | 3        | 1       | 0         | Fig.4  | Fig.5  | Fig.6  |
|      |                         |         | 5        | 1       | 0         | Fig.7  | Fig.8  | Fig.9  |
|      |                         |         | 10       | 1       | 0         | Fig.10 | Fig.11 | Fig.12 |



Fig.1

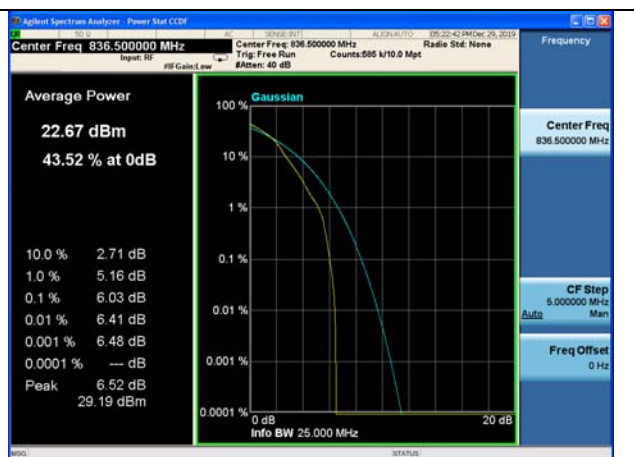


Fig.2



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                    |
| 5    | 829                     | 20450   | 10 | 1       | 0         | Fig.1-2                 |
|      | 836.5                   | 20525   | 10 | 1       | 0         | Fig.3-4                 |
|      | 844                     | 20600   | 10 | 1       | 0         | Fig.4-5                 |

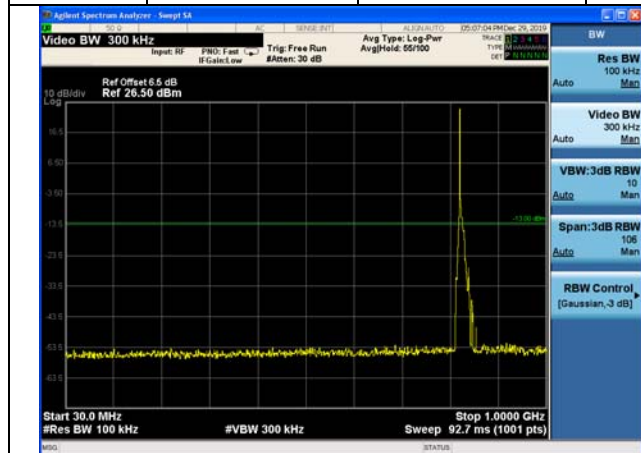


Fig.1

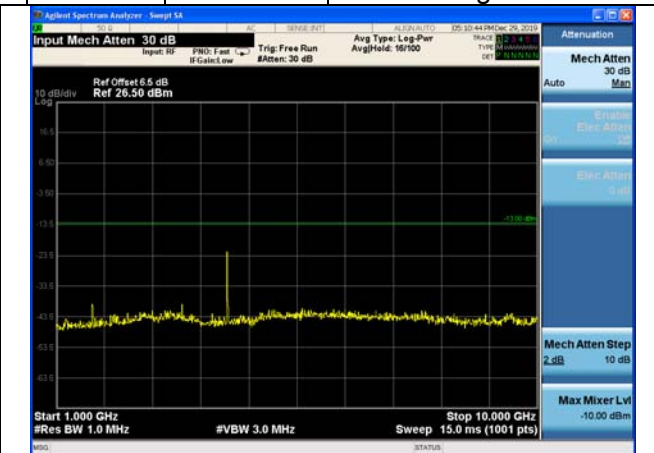


Fig.2

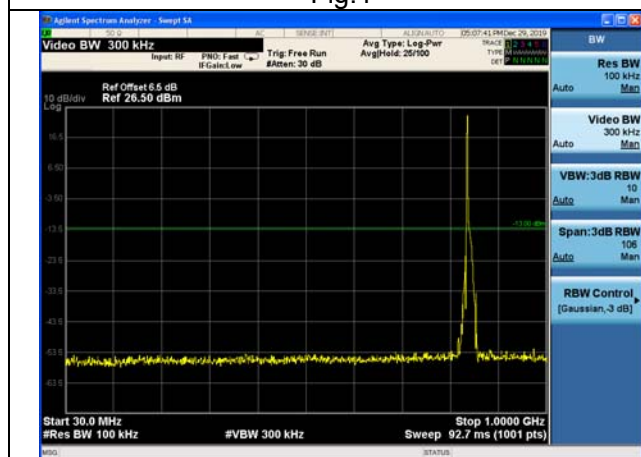


Fig3

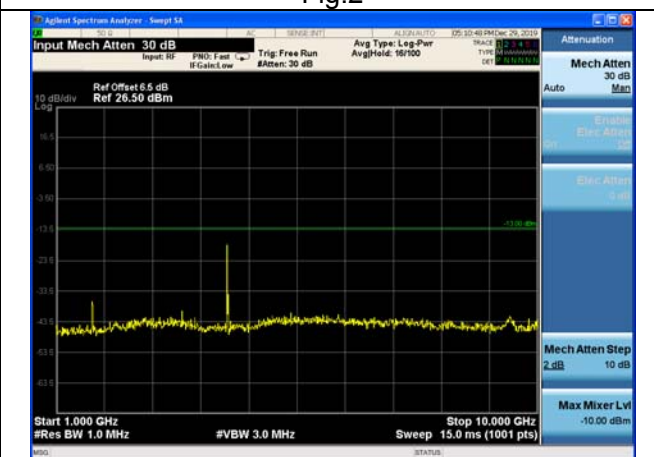


Fig4

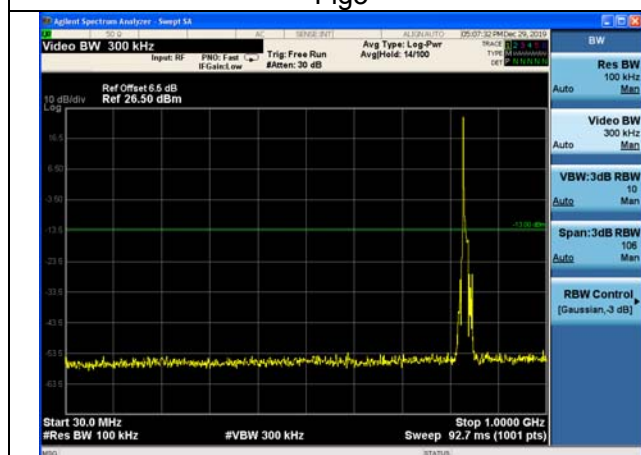


Fig5

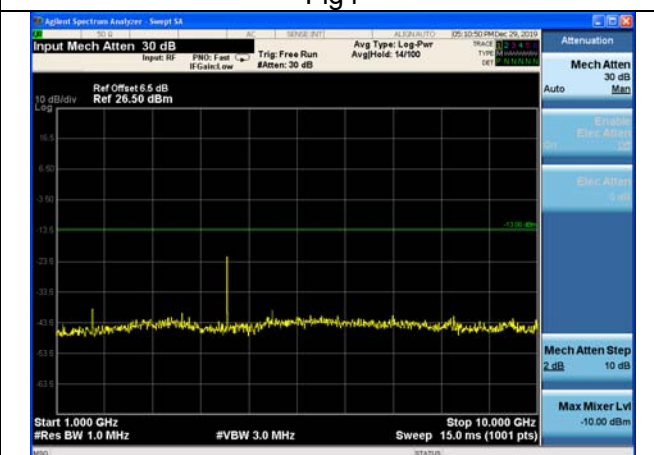


Fig6

## 5 Band Edges Compliance

Test result

| Test Result |                         |         |     |         |           |                 |
|-------------|-------------------------|---------|-----|---------|-----------|-----------------|
| 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          |

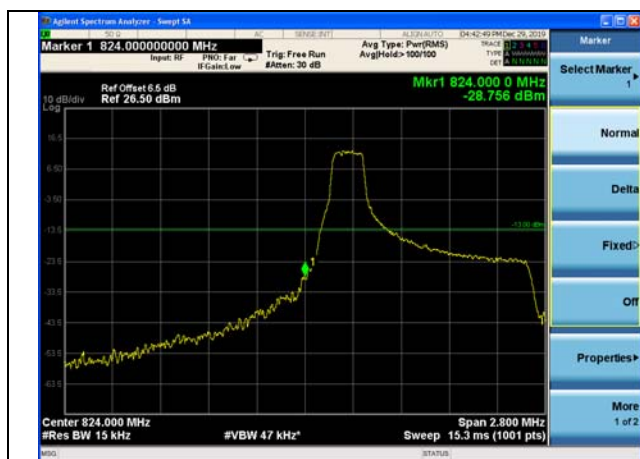


Fig.1



Fig.2



Fig.3



Fig.4



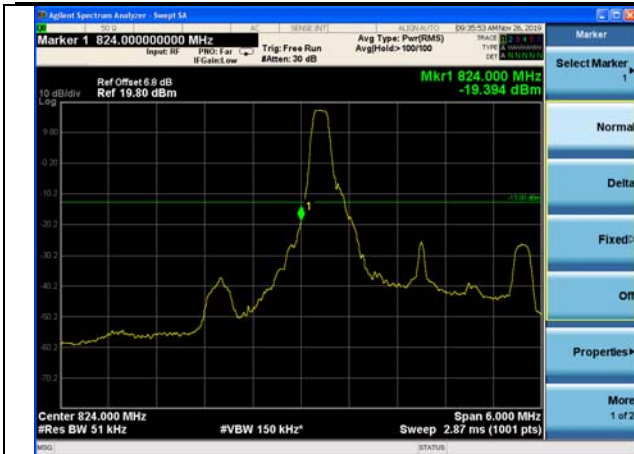


Fig.5

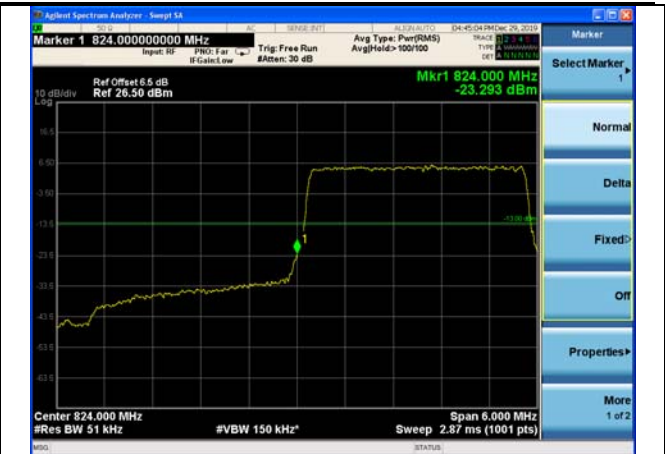


Fig.6

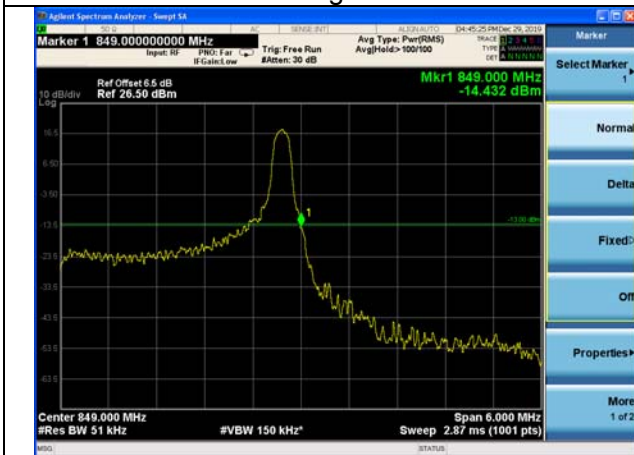


Fig.7



Fig.8

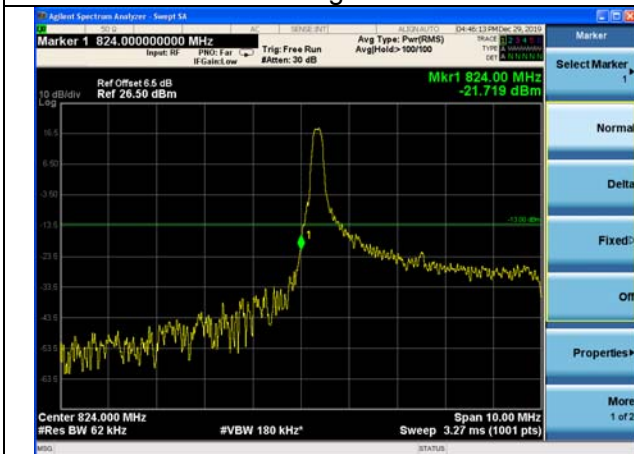


Fig.9

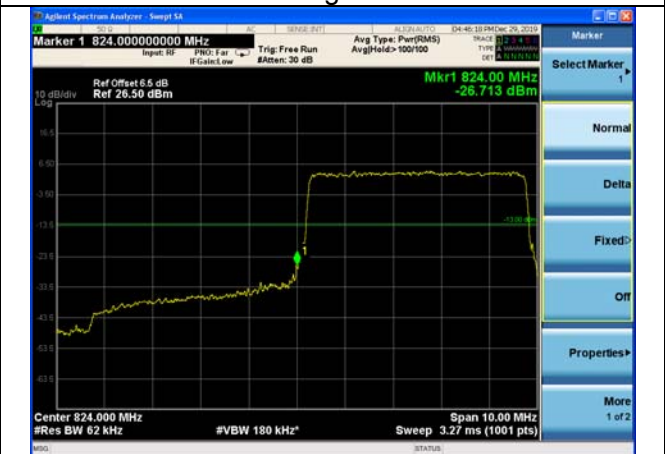


Fig.10



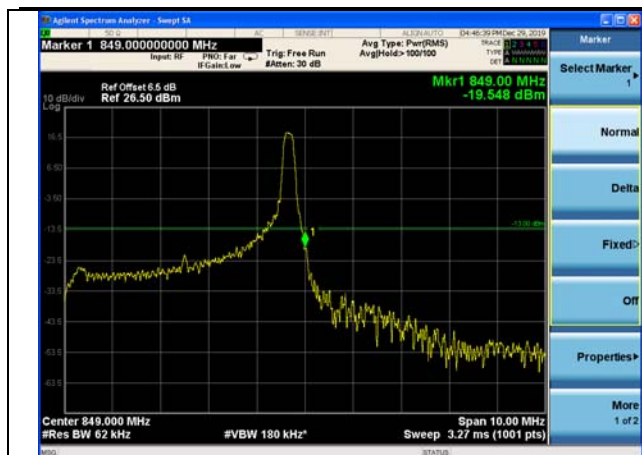


Fig.11



Fig.12

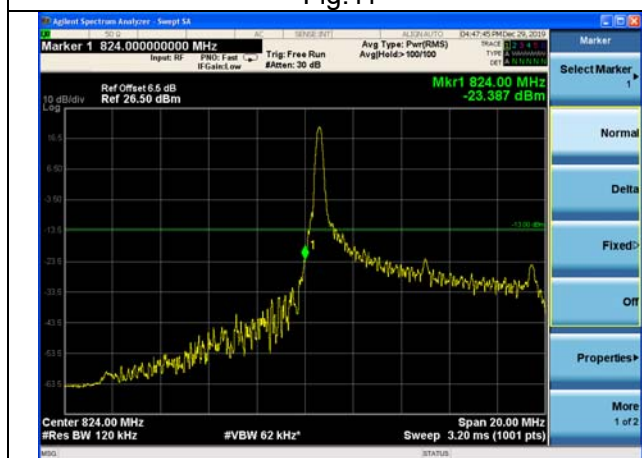


Fig.13

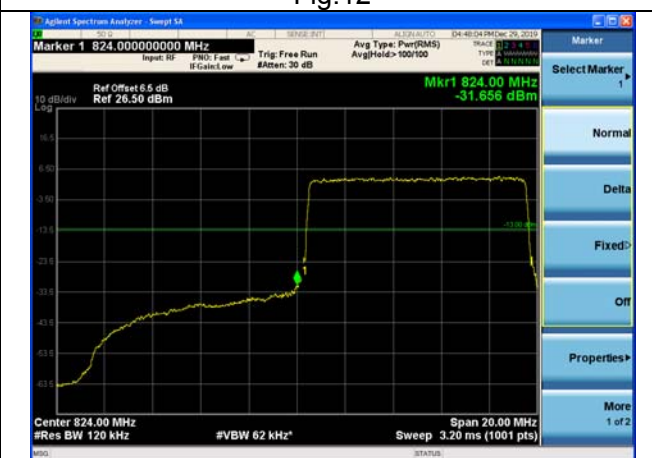


Fig.14

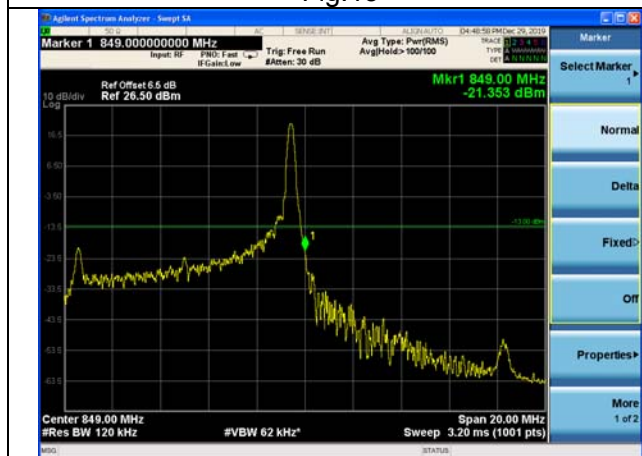


Fig.15



Fig.16

## 6 Frequency Stability

Test result:

| Temperature(°C) | Voltage | Test Result (ppm) Band5 Low Channel |        |        |        |
|-----------------|---------|-------------------------------------|--------|--------|--------|
|                 |         | 1.4M                                | 3M     | 5M     | 10M    |
| 0               | NV      | -0.025                              | -0.074 | -0.023 | 0.075  |
| +10             | NV      | 0.010                               | -0.095 | 0.048  | 0.075  |
| +20             | NV      | 0.000                               | 0.000  | 0.000  | 0.000  |
| +30             | NV      | -0.072                              | -0.081 | -0.063 | -0.020 |
| +40             | NV      | -0.076                              | -0.009 | 0.028  | 0.017  |
| +50             | NV      | -0.085                              | 0.010  | -0.100 | -0.062 |
| +55             | NV      | 0.038                               | 0.092  | 0.016  | -0.098 |
| +20             | LV      | -0.055                              | -0.024 | 0.032  | -0.062 |
| +20             | HV      | 0.054                               | 0.075  | -0.017 | -0.055 |

| Temperature(°C) | Voltage | Test Result (ppm) Band5 High Channel |        |        |        |
|-----------------|---------|--------------------------------------|--------|--------|--------|
|                 |         | 1.4M                                 | 3M     | 5M     | 10M    |
| 0               | NV      | -0.076                               | 0.043  | 0.054  | -0.086 |
| +10             | NV      | 0.009                                | 0.023  | -0.061 | 0.063  |
| +20             | NV      | 0.000                                | 0.000  | 0.000  | 0.000  |
| +30             | NV      | 0.059                                | 0.085  | 0.060  | 0.099  |
| +40             | NV      | 0.096                                | -0.077 | -0.071 | -0.006 |
| +50             | NV      | 0.013                                | -0.066 | -0.079 | 0.074  |
| +55             | NV      | -0.023                               | -0.027 | 0.032  | 0.040  |
| +20             | LV      | 0.059                                | 0.026  | -0.081 | 0.007  |
| +20             | HV      | 0.035                                | -0.009 | 0.050  | -0.022 |

**LTE Band 7**  
**1 RF Power Output**

| E-UTRA Power Output |                         |            |    |         |           |                       |
|---------------------|-------------------------|------------|----|---------|-----------|-----------------------|
| Modulation          | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
| QPSK                | 2502.5                  | 20775      | 5  | 1       | 0         | 15.22                 |
|                     |                         |            |    | 1       | 24        | 15.12                 |
|                     |                         |            |    | 12      | 6         | 14.64                 |
|                     |                         |            |    | 25      | 0         | 14.63                 |
|                     | 2535                    | 21100      |    | 1       | 0         | 15.23                 |
|                     |                         |            |    | 1       | 24        | 15.13                 |
|                     |                         |            |    | 12      | 6         | 14.59                 |
|                     |                         |            |    | 25      | 0         | 14.74                 |
|                     | 2567.5                  | 21425      |    | 1       | 0         | 15.12                 |
|                     |                         |            |    | 1       | 24        | 15.17                 |
|                     |                         |            |    | 12      | 6         | 14.76                 |
|                     |                         |            |    | 25      | 0         | 14.61                 |
| 16QAM               | 2502.5                  | 20775      | 5  | 1       | 0         | 14.88                 |
|                     |                         |            |    | 1       | 24        | 14.99                 |
|                     |                         |            |    | 12      | 6         | 13.62                 |
|                     |                         |            |    | 25      | 0         | 13.42                 |
|                     | 2535                    | 21100      |    | 1       | 0         | 14.85                 |
|                     |                         |            |    | 1       | 24        | 14.87                 |
|                     |                         |            |    | 12      | 6         | 13.71                 |
|                     |                         |            |    | 25      | 0         | 13.67                 |
|                     | 2567.5                  | 21425      |    | 1       | 0         | 14.87                 |
|                     |                         |            |    | 1       | 24        | 14.87                 |
|                     |                         |            |    | 12      | 6         | 13.75                 |
|                     |                         |            |    | 25      | 0         | 13.40                 |
| 64QAM               | 2502.5                  | 20775      | 5  | 1       | 0         | 14.59                 |
|                     |                         |            |    | 1       | 24        | 14.85                 |
|                     |                         |            |    | 12      | 6         | 13.07                 |
|                     |                         |            |    | 25      | 0         | 13.34                 |
|                     | 2535                    | 21100      |    | 1       | 0         | 14.64                 |
|                     |                         |            |    | 1       | 24        | 14.89                 |
|                     |                         |            |    | 12      | 6         | 13.33                 |
|                     |                         |            |    | 25      | 0         | 13.54                 |
|                     | 2567.5                  | 21425      |    | 1       | 0         | 14.79                 |
|                     |                         |            |    | 1       | 24        | 14.89                 |
|                     |                         |            |    | 12      | 6         | 13.04                 |
|                     |                         |            |    | 25      | 0         | 13.49                 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| QPSK       | 2505                    | 20800      | 10 | 1       | 0         | 15.02                 |
|            |                         |            |    | 1       | 49        | 14.96                 |
|            |                         |            |    | 24      | 12        | 14.71                 |
|            |                         |            |    | 50      | 0         | 14.62                 |
|            | 2535                    | 21100      |    | 1       | 0         | 15.20                 |
|            |                         |            |    | 1       | 49        | 15.27                 |
|            |                         |            |    | 24      | 12        | 14.72                 |
|            |                         |            |    | 50      | 0         | 14.75                 |
|            | 2565                    | 21400      |    | 1       | 0         | 15.18                 |
|            |                         |            |    | 1       | 49        | 15.17                 |
|            |                         |            |    | 24      | 12        | 14.62                 |
|            |                         |            |    | 50      | 0         | 14.63                 |
| 16QAM      | 2505                    | 20800      | 10 | 1       | 0         | 15.04                 |
|            |                         |            |    | 1       | 49        | 14.77                 |
|            |                         |            |    | 24      | 12        | 13.56                 |
|            |                         |            |    | 50      | 0         | 13.57                 |
|            | 2535                    | 21100      |    | 1       | 0         | 15.05                 |
|            |                         |            |    | 1       | 49        | 14.89                 |
|            |                         |            |    | 24      | 12        | 13.83                 |
|            |                         |            |    | 50      | 0         | 13.51                 |
|            | 2565                    | 21400      |    | 1       | 0         | 14.84                 |
|            |                         |            |    | 1       | 49        | 14.90                 |
|            |                         |            |    | 24      | 12        | 13.56                 |
|            |                         |            |    | 50      | 0         | 13.66                 |
| 64QAM      | 2505                    | 20800      | 10 | 1       | 0         | 14.58                 |
|            |                         |            |    | 1       | 49        | 14.90                 |
|            |                         |            |    | 24      | 12        | 13.08                 |
|            |                         |            |    | 50      | 0         | 13.58                 |
|            | 2535                    | 21100      |    | 1       | 0         | 14.86                 |
|            |                         |            |    | 1       | 49        | 14.93                 |
|            |                         |            |    | 24      | 12        | 13.36                 |
|            |                         |            |    | 50      | 0         | 13.39                 |
|            | 2565                    | 21400      |    | 1       | 0         | 14.76                 |
|            |                         |            |    | 1       | 49        | 14.78                 |
|            |                         |            |    | 24      | 12        | 13.15                 |
|            |                         |            |    | 50      | 0         | 13.38                 |

| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| QPSK       | 2507.5                  | 20825      | 15 | 1       | 0         | 15.04                 |
|            |                         |            |    | 1       | 74        | 14.97                 |
|            |                         |            |    | 40      | 18        | 14.49                 |
|            |                         |            |    | 75      | 0         | 14.51                 |
|            | 2535                    | 21100      |    | 1       | 0         | 15.17                 |
|            |                         |            |    | 1       | 74        | 15.19                 |
|            |                         |            |    | 40      | 18        | 14.80                 |
|            |                         |            |    | 75      | 0         | 14.58                 |
|            | 2562.5                  | 21375      |    | 1       | 0         | 15.19                 |
|            |                         |            |    | 1       | 74        | 15.02                 |
|            |                         |            |    | 40      | 18        | 14.65                 |
|            |                         |            |    | 75      | 0         | 14.66                 |
| 16QAM      | 2507.5                  | 20825      | 15 | 1       | 0         | 14.92                 |
|            |                         |            |    | 1       | 74        | 15.01                 |
|            |                         |            |    | 40      | 18        | 13.57                 |
|            |                         |            |    | 75      | 0         | 13.57                 |
|            | 2535                    | 21100      |    | 1       | 0         | 15.08                 |
|            |                         |            |    | 1       | 74        | 14.91                 |
|            |                         |            |    | 40      | 18        | 13.74                 |
|            |                         |            |    | 75      | 0         | 13.45                 |
|            | 2562.5                  | 21375      |    | 1       | 0         | 14.93                 |
|            |                         |            |    | 1       | 74        | 15.01                 |
|            |                         |            |    | 40      | 18        | 13.68                 |
|            |                         |            |    | 75      | 0         | 13.63                 |
| 64QAM      | 2507.5                  | 20825      | 15 | 1       | 0         | 14.61                 |
|            |                         |            |    | 1       | 74        | 14.97                 |
|            |                         |            |    | 40      | 18        | 13.24                 |
|            |                         |            |    | 75      | 0         | 13.65                 |
|            | 2535                    | 21100      |    | 1       | 0         | 14.73                 |
|            |                         |            |    | 1       | 74        | 14.86                 |
|            |                         |            |    | 40      | 18        | 13.32                 |
|            |                         |            |    | 75      | 0         | 13.71                 |
|            | 2562.5                  | 21375      |    | 1       | 0         | 14.81                 |
|            |                         |            |    | 1       | 74        | 15.04                 |
|            |                         |            |    | 40      | 18        | 13.07                 |
|            |                         |            |    | 75      | 0         | 13.59                 |



| Modulation | Carrier frequency (MHz) | UL Channel | BW | RB Size | RB Offset | Conducted power (dBm) |
|------------|-------------------------|------------|----|---------|-----------|-----------------------|
| QPSK       | 2510                    | 20850      | 20 | 1       | 0         | 15.24                 |
|            |                         |            |    | 1       | 99        | 15.22                 |
|            |                         |            |    | 50      | 25        | 14.74                 |
|            |                         |            |    | 100     | 0         | 14.64                 |
|            | 2535                    | 21100      |    | 1       | 0         | 15.09                 |
|            |                         |            |    | 1       | 99        | 15.06                 |
|            |                         |            |    | 50      | 25        | 14.66                 |
|            |                         |            |    | 100     | 0         | 14.68                 |
|            | 2560                    | 21350      |    | 1       | 0         | 15.13                 |
|            |                         |            |    | 1       | 99        | 14.95                 |
|            |                         |            |    | 50      | 25        | 14.66                 |
|            |                         |            |    | 100     | 0         | 14.58                 |
| 16QAM      | 2510                    | 20850      | 20 | 1       | 0         | 14.88                 |
|            |                         |            |    | 1       | 99        | 15.00                 |
|            |                         |            |    | 50      | 25        | 13.55                 |
|            |                         |            |    | 100     | 0         | 13.62                 |
|            | 2535                    | 21100      |    | 1       | 0         | 14.97                 |
|            |                         |            |    | 1       | 99        | 14.83                 |
|            |                         |            |    | 50      | 25        | 13.65                 |
|            |                         |            |    | 100     | 0         | 13.70                 |
|            | 2560                    | 21350      |    | 1       | 0         | 14.98                 |
|            |                         |            |    | 1       | 99        | 14.87                 |
|            |                         |            |    | 50      | 25        | 13.64                 |
|            |                         |            |    | 100     | 0         | 13.44                 |
| 64QAM      | 2510                    | 20850      | 20 | 1       | 0         | 14.62                 |
|            |                         |            |    | 1       | 99        | 15.00                 |
|            |                         |            |    | 50      | 25        | 13.27                 |
|            |                         |            |    | 100     | 0         | 13.52                 |
|            | 2535                    | 21100      |    | 1       | 0         | 14.69                 |
|            |                         |            |    | 1       | 99        | 15.05                 |
|            |                         |            |    | 50      | 25        | 13.26                 |
|            |                         |            |    | 100     | 0         | 13.60                 |
|            | 2560                    | 21350      |    | 1       | 0         | 14.92                 |
|            |                         |            |    | 1       | 99        | 14.83                 |
|            |                         |            |    | 50      | 25        | 13.08                 |
|            |                         |            |    | 100     | 0         | 13.30                 |

## 2 Occupied Bandwidth

Test result

| Band | Carrier frequency (MHz) | Channel | BW (MHz) | RB Size | RB Offset | Bandwidth of 99% Power (MHz) |        |        |        |        |        |
|------|-------------------------|---------|----------|---------|-----------|------------------------------|--------|--------|--------|--------|--------|
|      |                         |         |          |         |           | QPSK                         |        | 16-QAM |        | 64-QAM |        |
| 7    | 2502.5                  | 20775   | 5        | 25      | 0         | 4.4793                       | Fig.1  | 4.4842 | Fig.2  | 4.4814 | Fig.3  |
|      | 2535                    | 21100   |          | 25      | 0         | 4.4761                       | Fig.4  | 4.4782 | Fig.5  | 4.4818 | Fig.6  |
|      | 2567.5                  | 21425   |          | 25      | 0         | 4.4766                       | Fig.7  | 4.4781 | Fig.8  | 4.4814 | Fig.9  |
|      | 2505                    | 20800   | 10       | 50      | 0         | 8.9778                       | Fig.10 | 8.9648 | Fig.11 | 8.9638 | Fig.12 |
|      | 2535                    | 21100   |          | 50      | 0         | 8.9705                       | Fig.13 | 8.9469 | Fig.14 | 8.9664 | Fig.15 |
|      | 2565                    | 21400   |          | 50      | 0         | 8.9509                       | Fig.16 | 8.9401 | Fig.17 | 8.9565 | Fig.18 |
|      | 2507.5                  | 20825   | 15       | 75      | 0         | 13.471                       | Fig.19 | 13.455 | Fig.20 | 13.437 | Fig.21 |
|      | 2535                    | 21100   |          | 75      | 0         | 13.402                       | Fig.22 | 13.428 | Fig.23 | 13.463 | Fig.24 |
|      | 2562.5                  | 21375   |          | 75      | 0         | 13.421                       | Fig.25 | 13.398 | Fig.26 | 13.415 | Fig.27 |
|      | 2510                    | 20850   | 20       | 100     | 0         | 17.918                       | Fig.28 | 17.878 | Fig.29 | 17.919 | Fig.30 |
|      | 2535                    | 21100   |          | 100     | 0         | 17.931                       | Fig.31 | 17.869 | Fig.32 | 17.880 | Fig.33 |
|      | 2560                    | 21350   |          | 100     | 0         | 17.890                       | Fig.34 | 17.843 | Fig.35 | 17.837 | Fig.36 |

| Band | Carrier frequency (MHz) | Channel | BW (MHz) | RB Size | RB Offset | Bandwidth of -26dB transmitter power (MHz) |        |        |        |        |        |
|------|-------------------------|---------|----------|---------|-----------|--------------------------------------------|--------|--------|--------|--------|--------|
|      |                         |         |          |         |           | QPSK                                       |        | 16-QAM |        | 64-QAM |        |
| 7    | 2502.5                  | 20775   | 5        | 25      | 0         | 5.161                                      | Fig.1  | 5.158  | Fig.2  | 5.127  | Fig.3  |
|      | 2535                    | 21100   |          | 25      | 0         | 5.019                                      | Fig.4  | 5.216  | Fig.5  | 5.002  | Fig.6  |
|      | 2567.5                  | 21425   |          | 25      | 0         | 5.177                                      | Fig.7  | 5.049  | Fig.8  | 5.258  | Fig.9  |
|      | 2505                    | 20800   | 10       | 50      | 0         | 9.946                                      | Fig.10 | 9.980  | Fig.11 | 9.742  | Fig.12 |
|      | 2535                    | 21100   |          | 50      | 0         | 9.884                                      | Fig.13 | 9.930  | Fig.14 | 9.936  | Fig.15 |
|      | 2565                    | 21400   |          | 50      | 0         | 10.02                                      | Fig.16 | 9.763  | Fig.17 | 9.711  | Fig.18 |
|      | 2507.5                  | 20825   | 15       | 75      | 0         | 14.57                                      | Fig.19 | 14.58  | Fig.20 | 14.55  | Fig.21 |
|      | 2535                    | 21100   |          | 75      | 0         | 14.48                                      | Fig.22 | 14.42  | Fig.23 | 14.65  | Fig.24 |
|      | 2562.5                  | 21375   |          | 75      | 0         | 14.54                                      | Fig.25 | 14.48  | Fig.26 | 14.54  | Fig.27 |
|      | 2510                    | 20850   | 20       | 100     | 0         | 19.60                                      | Fig.28 | 19.45  | Fig.29 | 19.59  | Fig.30 |
|      | 2535                    | 21100   |          | 100     | 0         | 19.64                                      | Fig.31 | 19.37  | Fig.32 | 19.52  | Fig.33 |
|      | 2560                    | 21350   |          | 100     | 0         | 19.38                                      | Fig.34 | 19.67  | Fig.35 | 19.31  | Fig.36 |

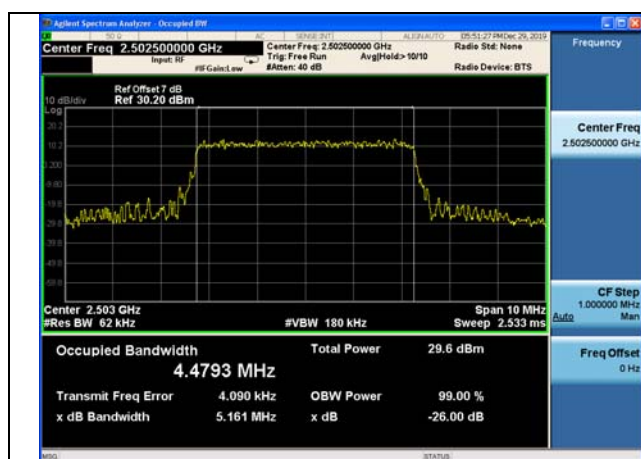


Fig.1



Fig.2

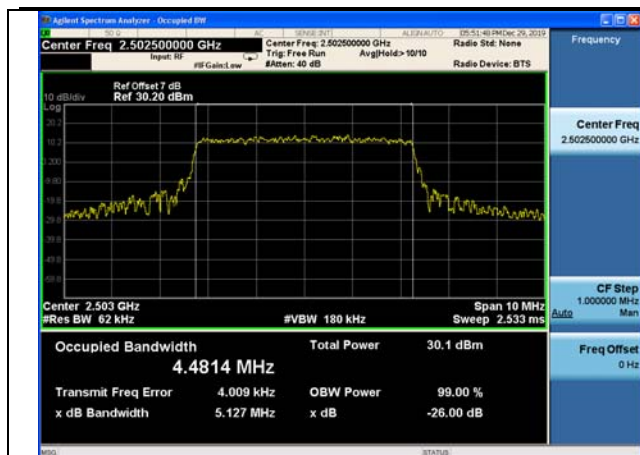


Fig.3



Fig.4

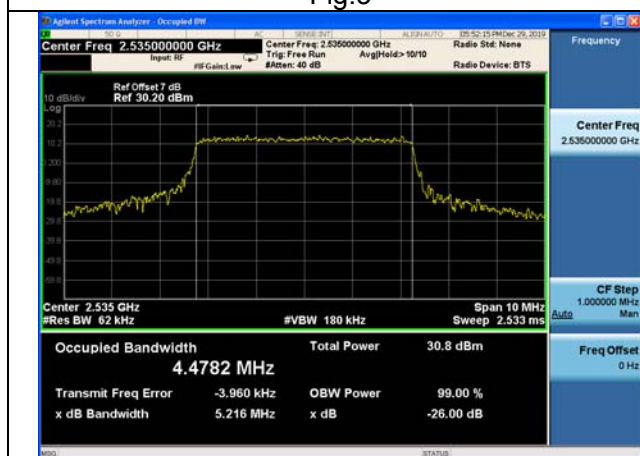


Fig.5

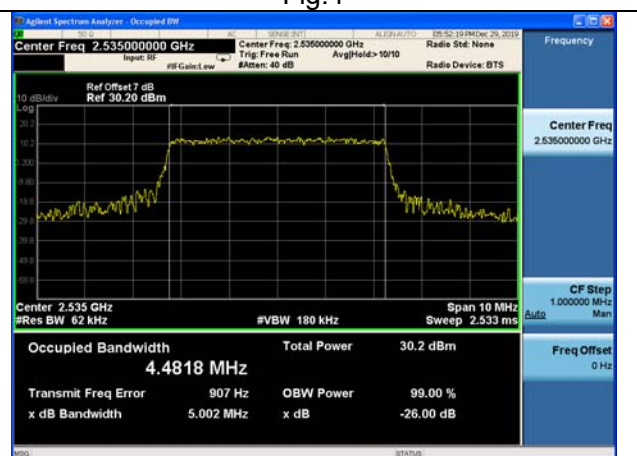


Fig.6

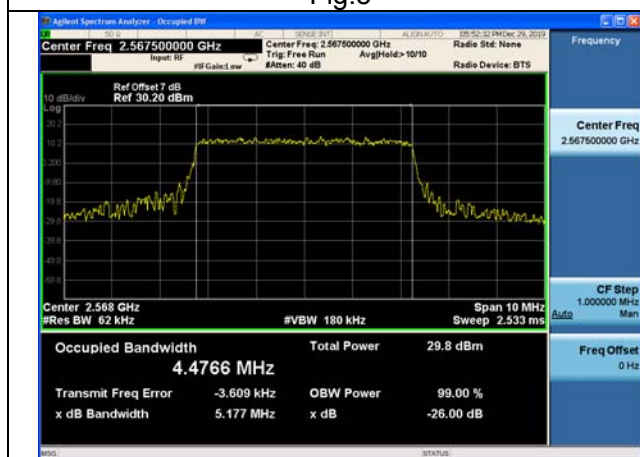


Fig.7

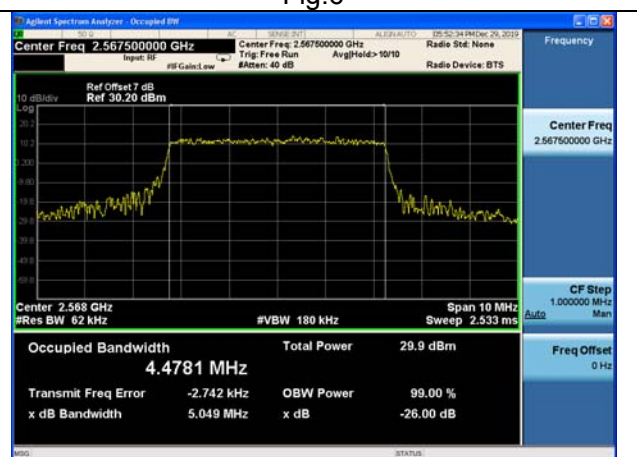


Fig.8

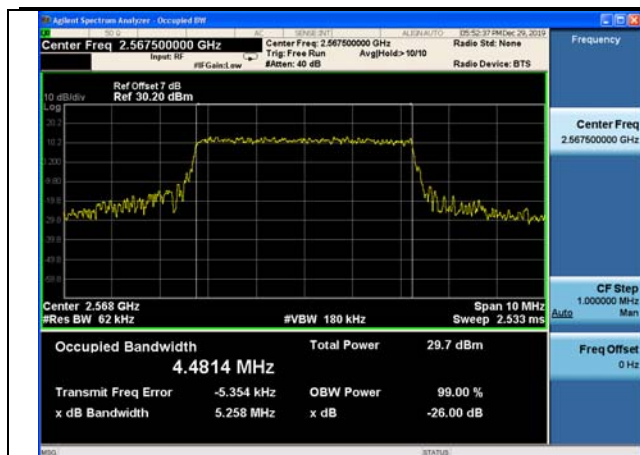


Fig.9

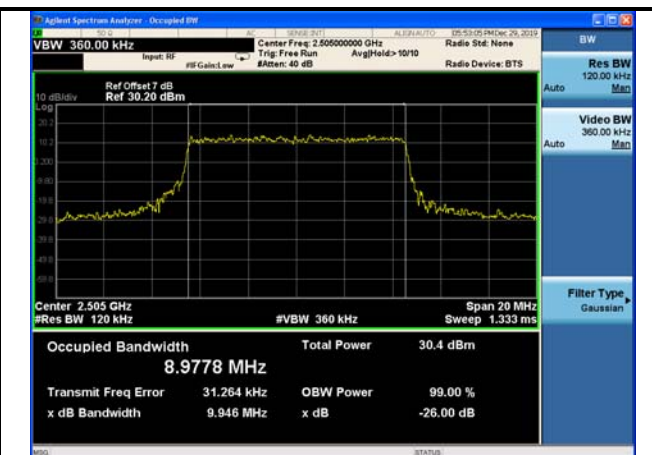


Fig.10

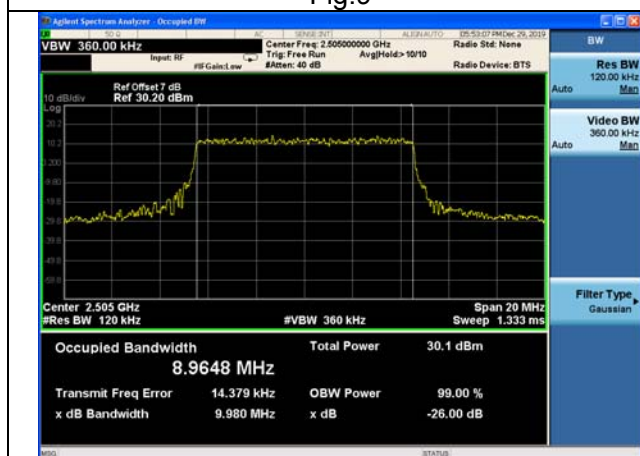


Fig.11

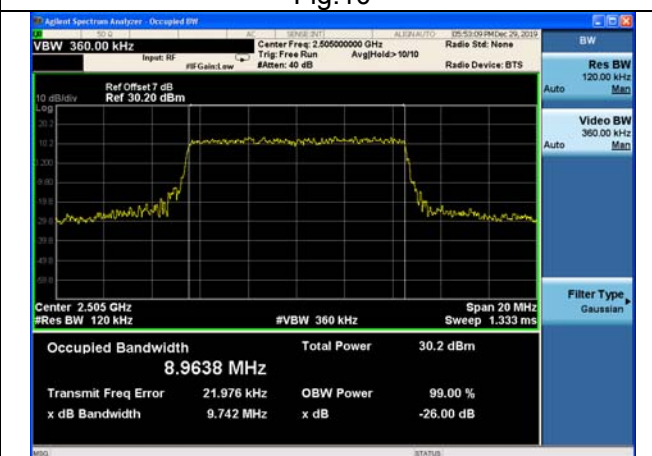


Fig.12

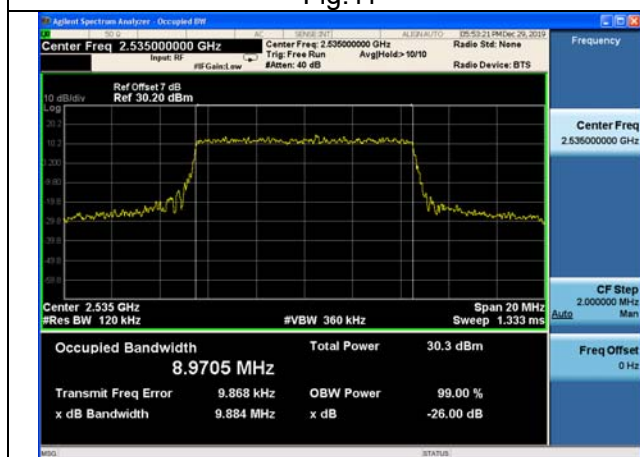


Fig.13

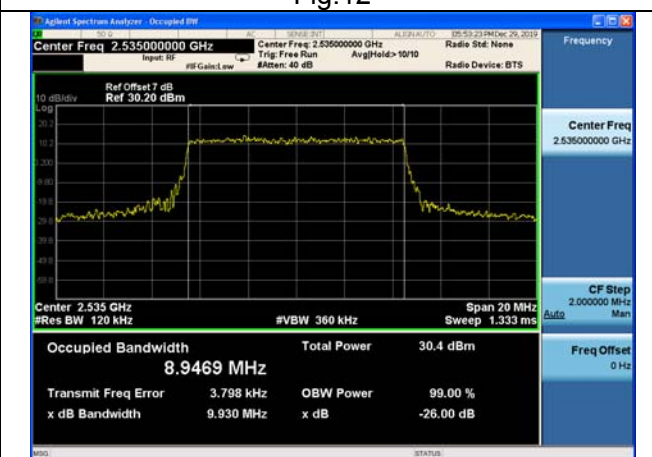


Fig.14