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# Appendix B

E-UTRA Band 26 (814-824)



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### 1. Effective (Isotropic) Radiated Power

#### 1.1. Test Result

| BAND   | Bandwidth | Modulation | Channel | RB<br>Configuration | Conducted Power(dBm) | Verdict |
|--------|-----------|------------|---------|---------------------|----------------------|---------|
| Band26 | 1.4MHz    | QPSK       | 26697   | 1RB#0               | 23.05                | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26697   | 1RB#2               | 23.14                | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26697   | 1RB#5               | 22.98                | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26697   | 3RB#0               | 23.12                | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26697   | 3RB#1               | 23.16                | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26697   | 3RB#3               | 23.10                | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26697   | 6RB#0               | 22.10                | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26740   | 1RB#0               | 22.96                | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26740   | 1RB#2               | 23.05                | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26740   | 1RB#5               | 23.02                | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26740   | 3RB#0               | 23.07                | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26740   | 3RB#1               | 23.03                | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26740   | 3RB#3               | 22.93                | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26740   | 6RB#0               | 21.92                | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26783   | 1RB#0               | 23.01                | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26783   | 1RB#2               | 22.97                | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26783   | 1RB#5               | 23.00                | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26783   | 3RB#0               | 22.95                | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26783   | 3RB#1               | 22.96                | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26783   | 3RB#3               | 22.85                | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26783   | 6RB#0               | 21.94                | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26697   | 1RB#0               | 22.22                | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26697   | 1RB#2               | 22.37                | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26697   | 1RB#5               | 22.19                | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26697   | 3RB#0               | 22.03                | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26697   | 3RB#1               | 22.19                | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26697   | 3RB#3               | 22.08                | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26697   | 6RB#0               | 21.17                | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26740   | 1RB#0               | 22.13                | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26740   | 1RB#2               | 22.20                | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26740   | 1RB#5               | 22.07                | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26740   | 3RB#0               | 22.04                | PASS    |



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| Band26 | 1.4MHz | 16QAM | 26740 | 3RB#1          | 22.15 | PASS |
|--------|--------|-------|-------|----------------|-------|------|
| Band26 | 1.4MHz | 16QAM | 26740 | 3RB#3          | 21.98 | PASS |
| Band26 | 1.4MHz | 16QAM | 26740 |                | 21.96 | PASS |
| Band26 | 1.4MHz | 16QAM | 26783 | 6RB#0<br>1RB#0 | 22.07 | PASS |
|        |        |       |       |                |       |      |
| Band26 | 1.4MHz | 16QAM | 26783 | 1RB#2          | 22.09 | PASS |
| Band26 | 1.4MHz | 16QAM | 26783 | 1RB#5          | 22.15 | PASS |
| Band26 | 1.4MHz | 16QAM | 26783 | 3RB#0          | 22.01 | PASS |
| Band26 | 1.4MHz | 16QAM | 26783 | 3RB#1          | 22.10 | PASS |
| Band26 | 1.4MHz | 16QAM | 26783 | 3RB#3          | 22.02 | PASS |
| Band26 | 1.4MHz | 16QAM | 26783 | 6RB#0          | 21.00 | PASS |
| Band26 | 3MHz   | QPSK  | 26705 | 1RB#0          | 23.07 | PASS |
| Band26 | 3MHz   | QPSK  | 26705 | 1RB#8          | 23.05 | PASS |
| Band26 | 3MHz   | QPSK  | 26705 | 1RB#14         | 22.93 | PASS |
| Band26 | 3MHz   | QPSK  | 26705 | 8RB#0          | 22.01 | PASS |
| Band26 | 3MHz   | QPSK  | 26705 | 8RB#4          | 22.01 | PASS |
| Band26 | 3MHz   | QPSK  | 26705 | 8RB#7          | 21.91 | PASS |
| Band26 | 3MHz   | QPSK  | 26705 | 15RB#0         | 21.98 | PASS |
| Band26 | 3MHz   | QPSK  | 26740 | 1RB#0          | 22.98 | PASS |
| Band26 | 3MHz   | QPSK  | 26740 | 1RB#8          | 22.96 | PASS |
| Band26 | 3MHz   | QPSK  | 26740 | 1RB#14         | 22.88 | PASS |
| Band26 | 3MHz   | QPSK  | 26740 | 8RB#0          | 21.93 | PASS |
| Band26 | 3MHz   | QPSK  | 26740 | 8RB#4          | 22.05 | PASS |
| Band26 | 3MHz   | QPSK  | 26740 | 8RB#7          | 21.96 | PASS |
| Band26 | 3MHz   | QPSK  | 26740 | 15RB#0         | 22.01 | PASS |
| Band26 | 3MHz   | QPSK  | 26775 | 1RB#0          | 23.07 | PASS |
| Band26 | 3MHz   | QPSK  | 26775 | 1RB#8          | 23.06 | PASS |
| Band26 | 3MHz   | QPSK  | 26775 | 1RB#14         | 22.99 | PASS |
| Band26 | 3MHz   | QPSK  | 26775 | 8RB#0          | 21.98 | PASS |
| Band26 | 3MHz   | QPSK  | 26775 | 8RB#4          | 22.01 | PASS |
| Band26 | 3MHz   | QPSK  | 26775 | 8RB#7          | 21.97 | PASS |
| Band26 | 3MHz   | QPSK  | 26775 | 15RB#0         | 21.99 | PASS |
| Band26 | 3MHz   | 16QAM | 26705 | 1RB#0          | 22.14 | PASS |
| Band26 | 3MHz   | 16QAM | 26705 | 1RB#8          | 22.12 | PASS |
| Band26 | 3MHz   | 16QAM | 26705 | 1RB#14         | 22.20 | PASS |
| Band26 | 3MHz   | 16QAM | 26705 | 8RB#0          | 21.12 | PASS |
| Band26 | 3MHz   | 16QAM | 26705 | 8RB#4          | 20.94 | PASS |
| Band26 | 3MHz   | 16QAM | 26705 | 8RB#7          | 20.95 | PASS |
| Band26 | 3MHz   | 16QAM | 26705 | 15RB#0         | 20.96 | PASS |



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| Band26 | 3MHz | 16QAM | 26740 | 1RB#0   | 22.19 | PASS  |
|--------|------|-------|-------|---------|-------|-------|
|        |      |       |       | _       | -     | 11100 |
| Band26 | 3MHz | 16QAM | 26740 | 1RB#8   | 22.14 | PASS  |
| Band26 | 3MHz | 16QAM | 26740 | 1RB#14  | 22.15 | PASS  |
| Band26 | 3MHz | 16QAM | 26740 | 8RB#0   | 20.94 | PASS  |
| Band26 | 3MHz | 16QAM | 26740 | 8RB#4   | 21.04 | PASS  |
| Band26 | 3MHz | 16QAM | 26740 | 8RB#7   | 21.08 | PASS  |
| Band26 | 3MHz | 16QAM | 26740 | 15RB#0  | 20.98 | PASS  |
| Band26 | 3MHz | 16QAM | 26775 | 1RB#0   | 22.12 | PASS  |
| Band26 | 3MHz | 16QAM | 26775 | 1RB#8   | 22.14 | PASS  |
| Band26 | 3MHz | 16QAM | 26775 | 1RB#14  | 22.14 | PASS  |
| Band26 | 3MHz | 16QAM | 26775 | 8RB#0   | 21.09 | PASS  |
| Band26 | 3MHz | 16QAM | 26775 | 8RB#4   | 21.00 | PASS  |
| Band26 | 3MHz | 16QAM | 26775 | 8RB#7   | 21.07 | PASS  |
| Band26 | 3MHz | 16QAM | 26775 | 15RB#0  | 20.96 | PASS  |
| Band26 | 5MHz | QPSK  | 26715 | 1RB#0   | 23.11 | PASS  |
| Band26 | 5MHz | QPSK  | 26715 | 1RB#12  | 23.21 | PASS  |
| Band26 | 5MHz | QPSK  | 26715 | 1RB#24  | 22.95 | PASS  |
| Band26 | 5MHz | QPSK  | 26715 | 12RB#0  | 22.03 | PASS  |
| Band26 | 5MHz | QPSK  | 26715 | 12RB#6  | 22.02 | PASS  |
| Band26 | 5MHz | QPSK  | 26715 | 12RB#13 | 22.04 | PASS  |
| Band26 | 5MHz | QPSK  | 26715 | 25RB#0  | 22.01 | PASS  |
| Band26 | 5MHz | QPSK  | 26740 | 1RB#0   | 23.03 | PASS  |
| Band26 | 5MHz | QPSK  | 26740 | 1RB#12  | 23.01 | PASS  |
| Band26 | 5MHz | QPSK  | 26740 | 1RB#24  | 22.80 | PASS  |
| Band26 | 5MHz | QPSK  | 26740 | 12RB#0  | 22.03 | PASS  |
| Band26 | 5MHz | QPSK  | 26740 | 12RB#6  | 22.00 | PASS  |
| Band26 | 5MHz | QPSK  | 26740 | 12RB#13 | 21.93 | PASS  |
| Band26 | 5MHz | QPSK  | 26740 | 25RB#0  | 22.04 | PASS  |
| Band26 | 5MHz | QPSK  | 26765 | 1RB#0   | 23.06 | PASS  |
| Band26 | 5MHz | QPSK  | 26765 | 1RB#12  | 22.99 | PASS  |
| Band26 | 5MHz | QPSK  | 26765 | 1RB#24  | 22.62 | PASS  |
| Band26 | 5MHz | QPSK  | 26765 | 12RB#0  | 22.02 | PASS  |
| Band26 | 5MHz | QPSK  | 26765 | 12RB#6  | 22.01 | PASS  |
| Band26 | 5MHz | QPSK  | 26765 | 12RB#13 | 21.98 | PASS  |
| Band26 | 5MHz | QPSK  | 26765 | 25RB#0  | 22.03 | PASS  |
| Band26 | 5MHz | 16QAM | 26715 | 1RB#0   | 22.28 | PASS  |
| Band26 | 5MHz | 16QAM | 26715 | 1RB#12  | 22.44 | PASS  |
| Band26 | 5MHz | 16QAM | 26715 | 1RB#24  | 22.20 | PASS  |



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| 5MHz  | 16QAM                                   | 26715   | 12RB#0  | 21.05  | PASS   |
|-------|---|---|---|--|--|
| 5MHz  | 16QAM                                   | 26715   | 12RB#6  | 21.02  | PASS   |
| 5MHz  | 16QAM                                   | 26715   | 12RB#13   | 21.03  | PASS   |
| 5MHz  | 16QAM                                   | 26715   | 25RB#0  | 20.89  | PASS   |
| 5MHz  | 16QAM                                   | 26740   | 1RB#0   | 22.24  | PASS   |
| 5MHz  | 16QAM                                   | 26740   | 1RB#12  | 22.25  | PASS   |
| 5MHz  | 16QAM                                   | 26740   | 1RB#24  | 22.24  | PASS   |
| 5MHz  | 16QAM                                   | 26740   | 12RB#0  | 21.14  | PASS   |
| 5MHz  | 16QAM                                   | 26740   | 12RB#6  | 21.09  | PASS   |
| 5MHz  | 16QAM                                   | 26740   | 12RB#13   | 21.05  | PASS   |
| 5MHz  | 16QAM                                   | 26740   | 25RB#0  | 21.00  | PASS   |
| 5MHz  | 16QAM                                   | 26765   | 1RB#0   | 22.30  | PASS   |
| 5MHz  | 16QAM                                   | 26765   | 1RB#12  | 22.33  | PASS   |
| 5MHz  | 16QAM                                   | 26765   | 1RB#24  | 22.12  | PASS   |
| 5MHz  | 16QAM                                   | 26765   | 12RB#0  | 21.02  | PASS   |
| 5MHz  | 16QAM                                   | 26765   | 12RB#6  | 21.10  | PASS   |
| 5MHz  | 16QAM                                   | 26765   | 12RB#13   | 21.07  | PASS   |
| 5MHz  | 16QAM                                   | 26765   | 25RB#0  | 21.04  | PASS   |
| 10MHz | QPSK                                    | 26740   | 1RB#0   | 23.05  | PASS   |
| 10MHz | QPSK                                    | 26740   | 1RB#24  | 23.54  | PASS   |
| 10MHz | QPSK                                    | 26740   | 1RB#49  | 22.28  | PASS   |
| 10MHz | QPSK                                    | 26740   | 25RB#0  | 22.24  | PASS   |
| 10MHz | QPSK                                    | 26740   | 25RB#12   | 22.02  | PASS   |
| 10MHz | QPSK                                    | 26740   | 25RB#25   | 21.96  | PASS   |
| 10MHz | QPSK                                    | 26740   | 50RB#0  | 22.06  | PASS   |
| 10MHz | 16QAM                                   | 26740   | 1RB#0   | 22.65  | PASS   |
| 10MHz | 16QAM                                   | 26740   | 1RB#24  | 22.11  | PASS   |
| 10MHz | 16QAM                                   | 26740   | 1RB#49  | 22.53  | PASS   |
| 10MHz | 16QAM                                   | 26740   | 25RB#0  | 21.03  | PASS   |
| 10MHz | 16QAM                                   | 26740   | 25RB#12   | 21.02  | PASS   |
| 10MHz | 16QAM                                   | 26740   | 25RB#25   | 21.01  | PASS   |
| 10MHz | 16QAM                                   | 26740   | 50RB#0  | 21.13  | PASS   |
|       | 5MHz 5MHz 5MHz 5MHz 5MHz 5MHz 5MHz 5MHz | 5MHz         16QAM           10MHz         QPSK           10MHz         QPSK           10MHz         QPSK           10MHz         QPSK           10MHz         16QAM           10MHz         16QAM | 5MHz         16QAM         26715           5MHz         16QAM         26715           5MHz         16QAM         26740           5MHz         16QAM         26765           5MHz | 5MHz         16QAM         26715         12RB#6           5MHz         16QAM         26715         12RB#13           5MHz         16QAM         26715         25RB#0           5MHz         16QAM         26740         1RB#0           5MHz         16QAM         26740         1RB#12           5MHz         16QAM         26740         12RB#0           5MHz         16QAM         26740         12RB#0           5MHz         16QAM         26740         12RB#6           5MHz         16QAM         26740         12RB#6           5MHz         16QAM         26740         12RB#13           5MHz         16QAM         26765         1RB#0           5MHz         16QAM         26765         1RB#0           5MHz         16QAM         26765         12RB#0           5MHz         16QA | 5MHz         16QAM         26715         12RB#6         21.02           5MHz         16QAM         26715         12RB#13         21.03           5MHz         16QAM         26715         25RB#0         20.89           5MHz         16QAM         26740         1RB#0         22.24           5MHz         16QAM         26740         1RB#12         22.25           5MHz         16QAM         26740         1RB#24         22.24           5MHz         16QAM         26740         12RB#0         21.14           5MHz         16QAM         26740         12RB#0         21.14           5MHz         16QAM         26740         12RB#0         21.09           5MHz         16QAM         26740         12RB#13         21.05           5MHz         16QAM         26765         1RB#0         22.30           5MHz         16QAM         26765         1RB#12         22.33           5MHz         16QAM         26765         1RB#12         22.33           5MHz         16QAM         26765         12RB#0         21.02           5MHz         16QAM         26765         12RB#0         21.02           5MHz |



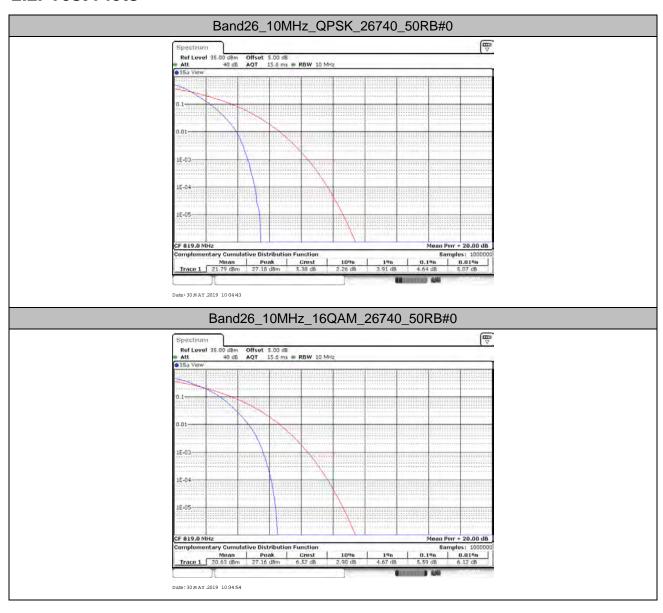
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### 2. Peak-to-Average Ratio(CCDF)

#### 2.1. Test Result

| BAND   | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band26 | 10MHz     | QPSK       | 26740   | 50RB#0           | 4.64       | 13        | PASS    |
| Band26 | 10MHz     | 16QAM      | 26740   | 50RB#0           | 5.59       | 13        | PASS    |

### 2.2. Test Plots





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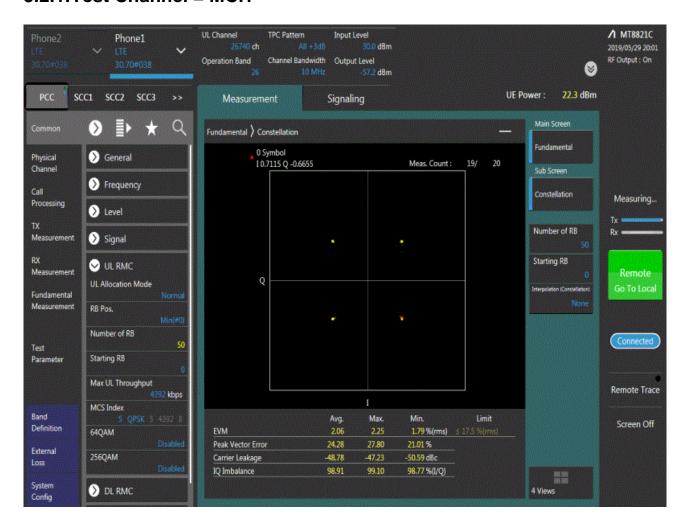
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#### 3. Modulation Characteristics

- 3.1. Test BAND = LTE Band 26
- 3.2. Test Mode = LTE /TM1 10MHz
- 3.2.1.Test Channel = MCH

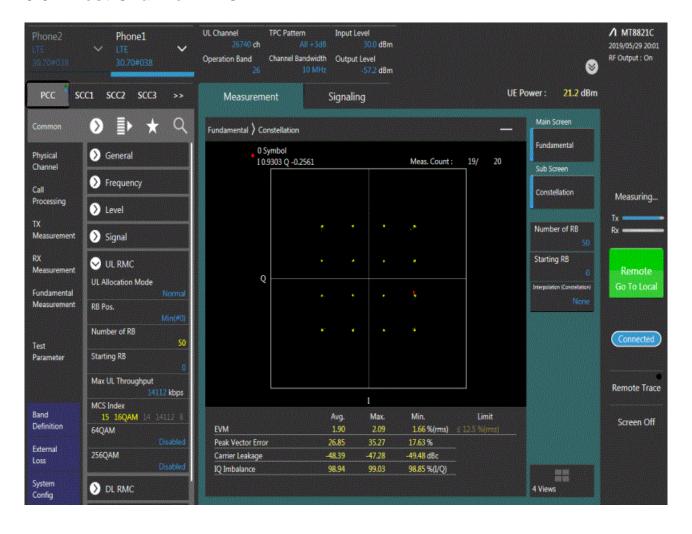




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#### 3.3. Test Mode = LTE /TM2 10MHz

#### 3.3.1.Test Channel = MCH





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### 4. 26dB Bandwidth and Occupied Bandwidth

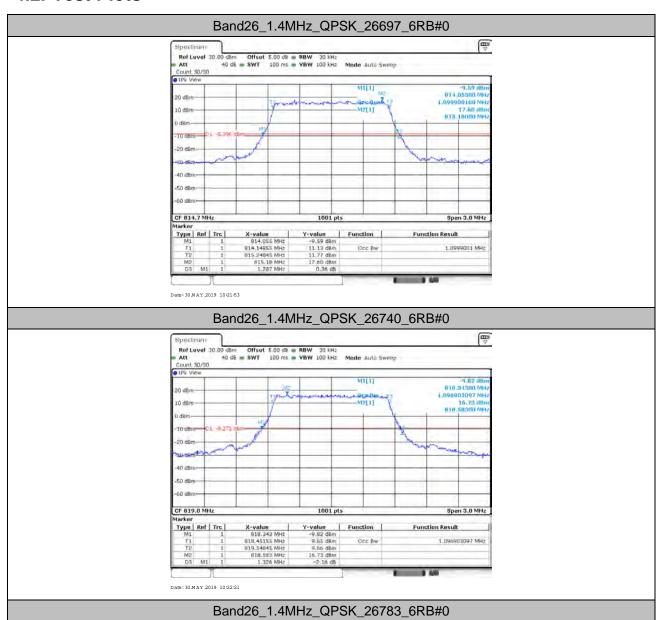
#### 4.1. Test Result

| BAND   | Bandwidth | Modulation | Channel | RB<br>Configuration | Occupied<br>Bandwidth<br>(MHz) | 26dB<br>Bandwidth<br>(MHz) | Verdict |
|--------|-----------|------------|---------|---------------------|--------------------------------|----------------------------|---------|
| Band26 | 1.4MHz    | QPSK       | 26697   | 6RB#0               | 1.100                          | 1.287                      | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26740   | 6RB#0               | 1.097                          | 1.326                      | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26783   | 6RB#0               | 1.094                          | 1.311                      | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26697   | 6RB#0               | 1.097                          | 1.305                      | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26740   | 6RB#0               | 1.094                          | 1.287                      | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26783   | 6RB#0               | 1.097                          | 1.299                      | PASS    |
| Band26 | 3MHz      | QPSK       | 26705   | 15RB#0              | 2.697                          | 2.994                      | PASS    |
| Band26 | 3MHz      | QPSK       | 26740   | 15RB#0              | 2.703                          | 2.982                      | PASS    |
| Band26 | 3MHz      | QPSK       | 26775   | 15RB#0              | 2.703                          | 2.964                      | PASS    |
| Band26 | 3MHz      | 16QAM      | 26705   | 15RB#0              | 2.691                          | 2.982                      | PASS    |
| Band26 | 3MHz      | 16QAM      | 26740   | 15RB#0              | 2.691                          | 2.982                      | PASS    |
| Band26 | 3MHz      | 16QAM      | 26775   | 15RB#0              | 2.697                          | 3.006                      | PASS    |
| Band26 | 5MHz      | QPSK       | 26715   | 25RB#0              | 4.466                          | 4.890                      | PASS    |
| Band26 | 5MHz      | QPSK       | 26740   | 25RB#0              | 4.486                          | 4.950                      | PASS    |
| Band26 | 5MHz      | QPSK       | 26765   | 25RB#0              | 4.486                          | 4.940                      | PASS    |
| Band26 | 5MHz      | 16QAM      | 26715   | 25RB#0              | 4.466                          | 4.950                      | PASS    |
| Band26 | 5MHz      | 16QAM      | 26740   | 25RB#0              | 4.476                          | 4.920                      | PASS    |
| Band26 | 5MHz      | 16QAM      | 26765   | 25RB#0              | 4.476                          | 4.900                      | PASS    |
| Band26 | 10MHz     | QPSK       | 26740   | 50RB#0              | 8.911                          | 9.640                      | PASS    |
| Band26 | 10MHz     | 16QAM      | 26740   | 50RB#0              | 8.911                          | 9.680                      | PASS    |



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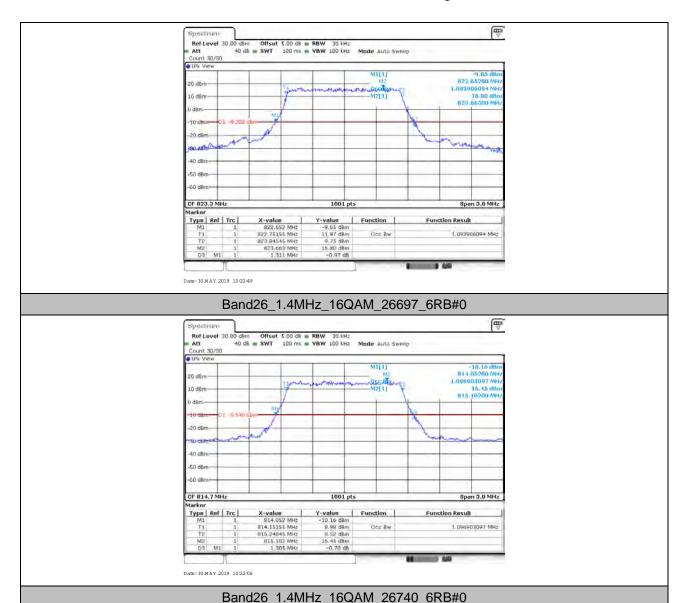
#### 4.2. Test Plots





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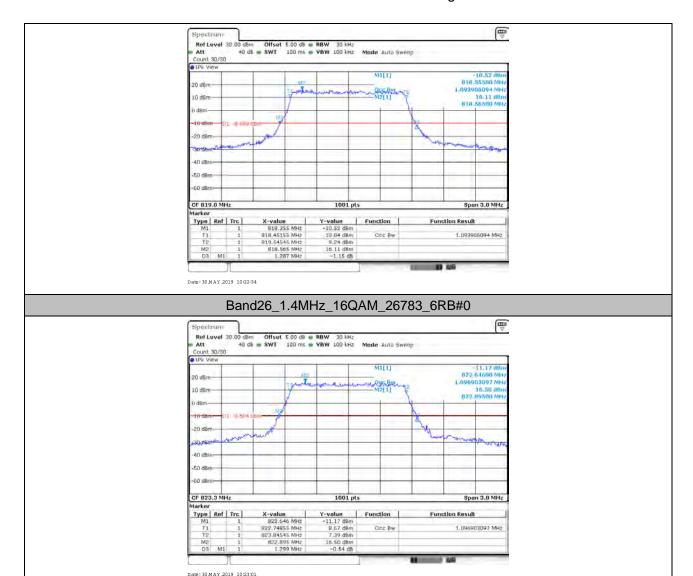
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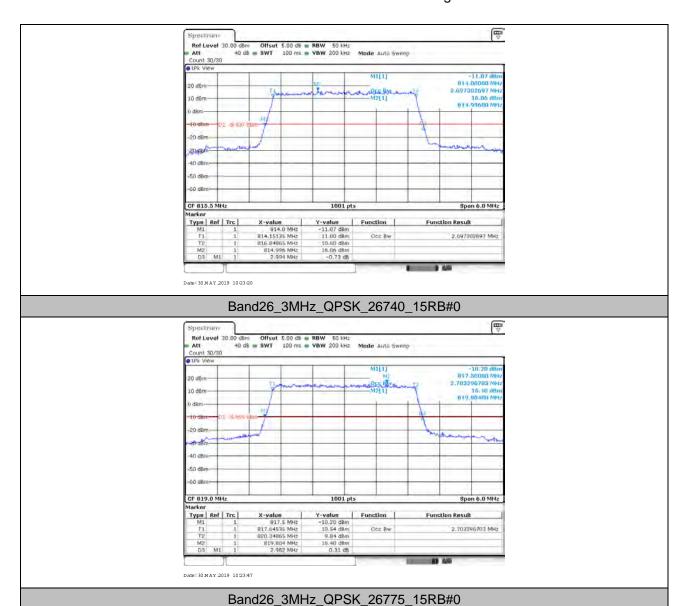


Band26\_3MHz\_QPSK\_26705\_15RB#0



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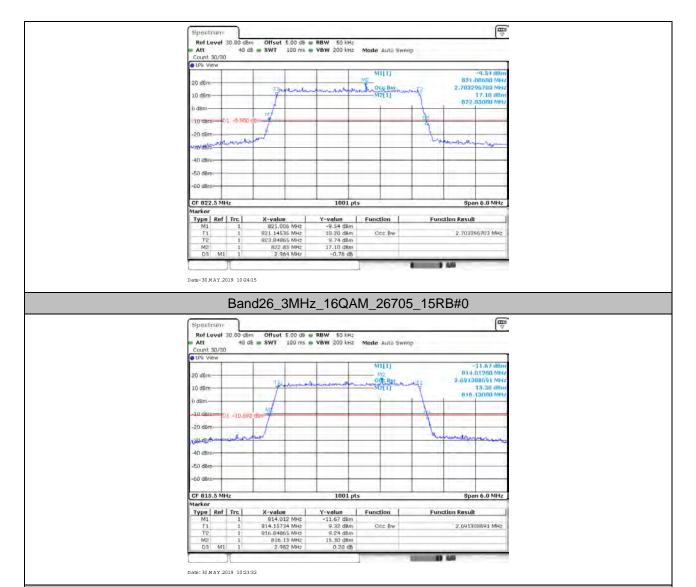
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Band26\_3MHz\_16QAM\_26740\_15RB#0



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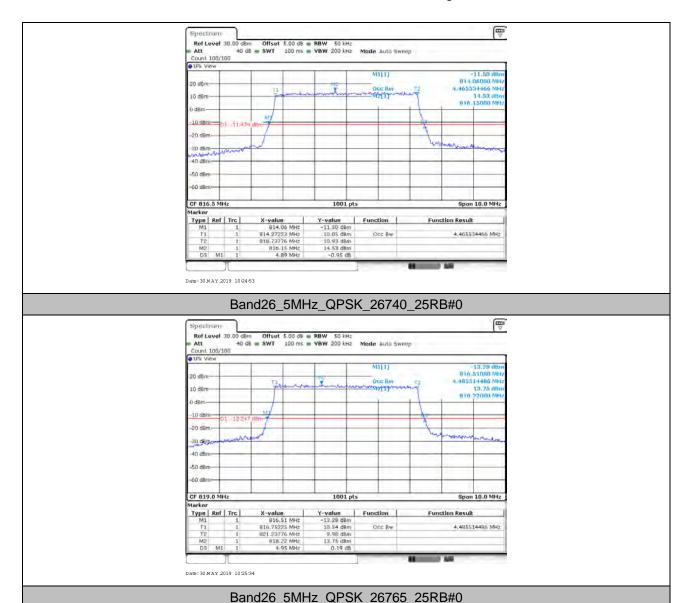


Band26\_5MHz\_QPSK\_26715\_25RB#0

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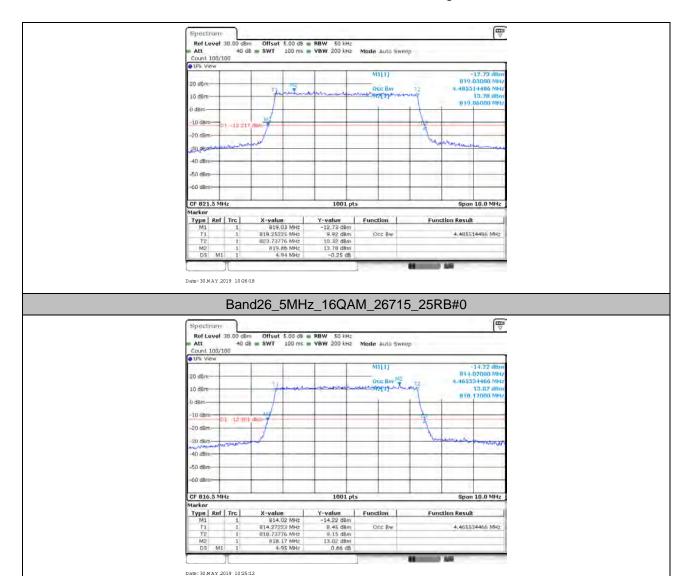
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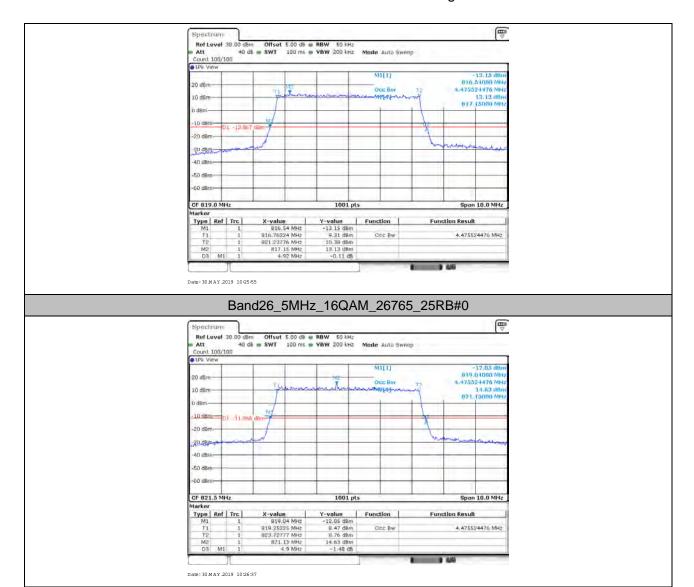


Band26\_5MHz\_16QAM\_26740\_25RB#0



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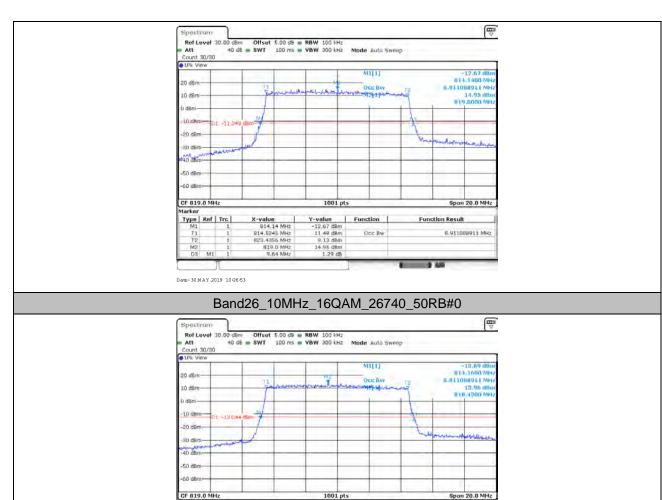


Band26 10MHz QPSK 26740 50RB#0



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Function

Occ Bw

**Function Result** 

8.911088911 MHz

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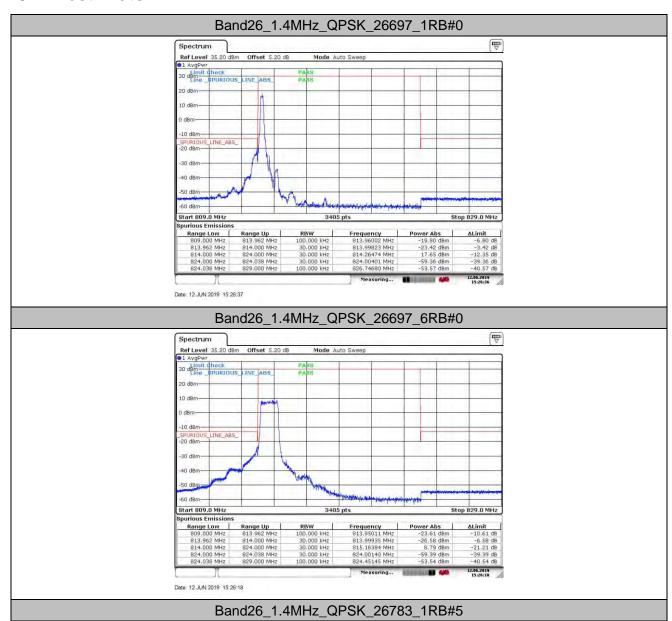
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### 5. Band Edge Compliance

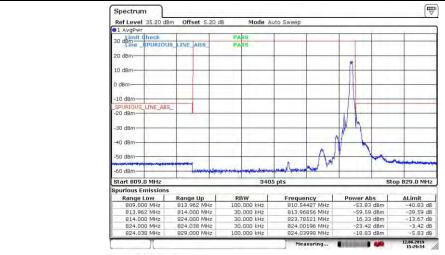
#### 5.1. Test Plots





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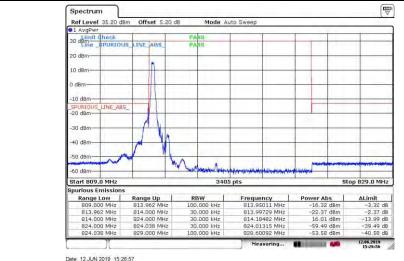


Band26 1.4MHz 16QAM 26697 1RB#0

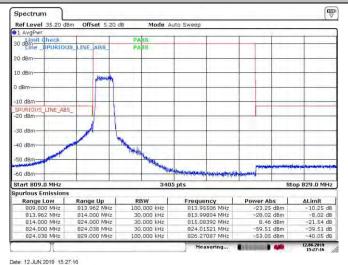


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#### Band26\_1.4MHz\_16QAM\_26697\_6RB#0

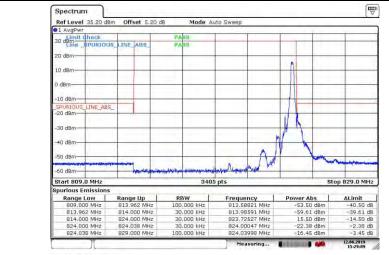


Band26\_1.4MHz\_16QAM\_26783\_1RB#5



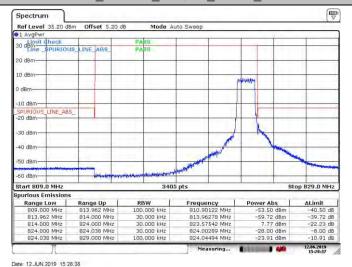
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Date: 12 JUN 2019 15:29:09

#### Band26\_1.4MHz\_16QAM\_26783\_6RB#0



Band26 3MHz QPSK 26705 1RB#0



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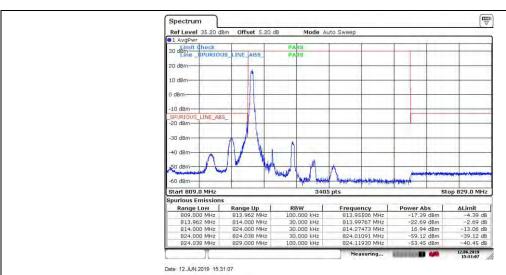
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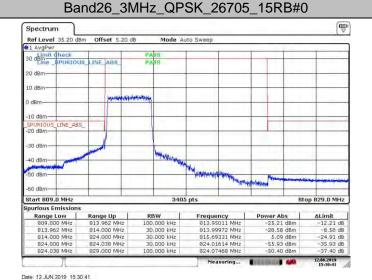
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Band26 3MHz QPSK 26775 1RB#14



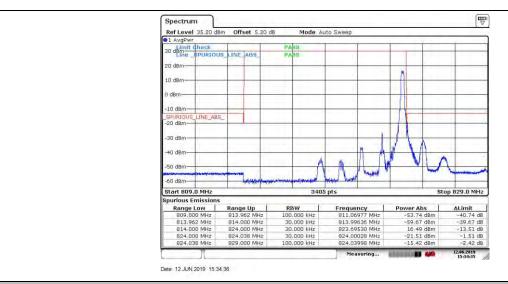
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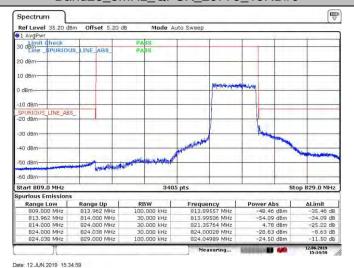
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#### Band26\_3MHz\_QPSK\_26775\_15RB#0



Band26 3MHz 16QAM 26705 1RB#0



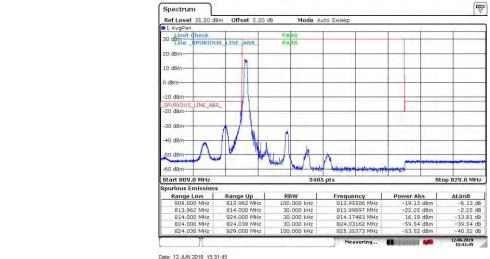
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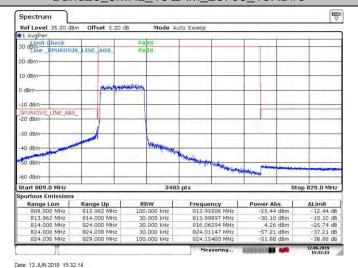
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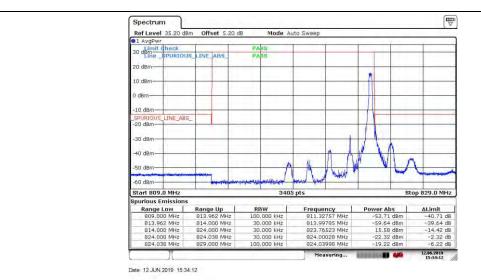


Band26\_3MHz\_16QAM\_26775\_1RB#14

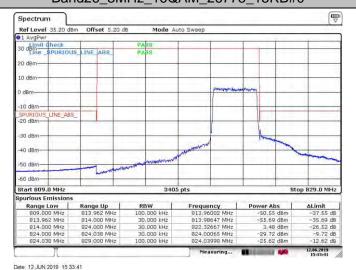


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#### Band26\_3MHz\_16QAM\_26775\_15RB#0



Band26\_5MHz\_QPSK\_26715\_1RB#0



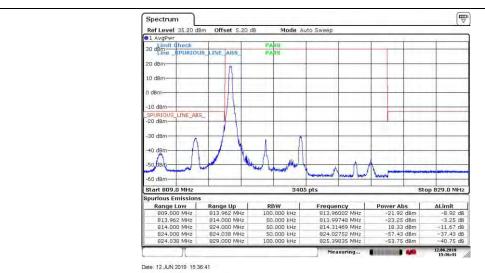
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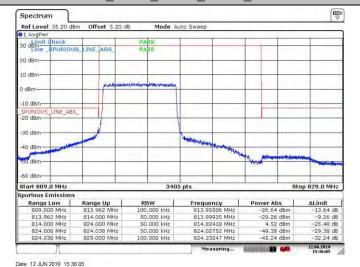
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#### Band26\_5MHz\_QPSK\_26715\_25RB#0

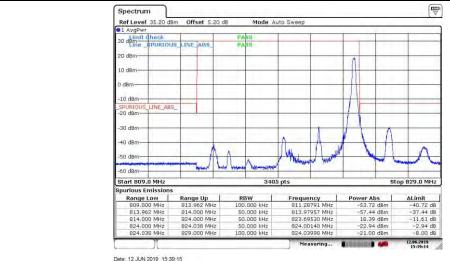


Band26 5MHz QPSK 26765 1RB#24

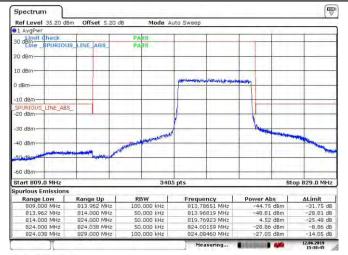


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#### Band26\_5MHz\_QPSK\_26765\_25RB#0



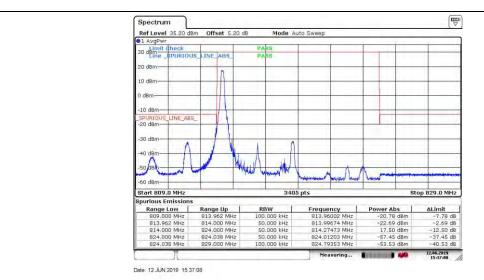
Date: 12.JUN.2019 15:38:45

Band26\_5MHz\_16QAM\_26715\_1RB#0

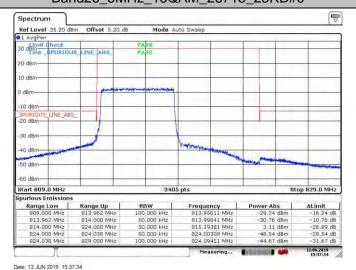


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#### Band26\_5MHz\_16QAM\_26715\_25RB#0

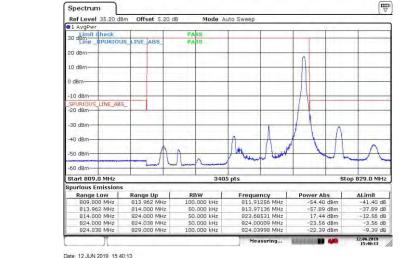


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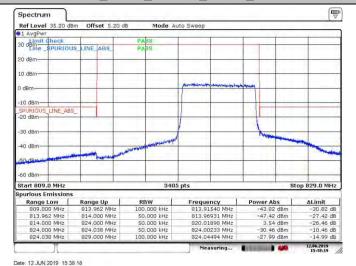


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#### Band26\_5MHz\_16QAM\_26765\_25RB#0

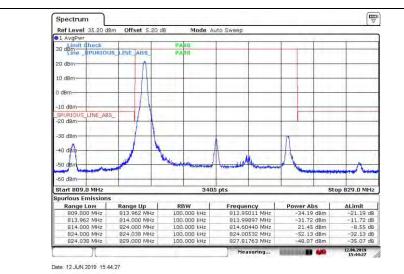


Band26 10MHz QPSK 26740 1RB#0

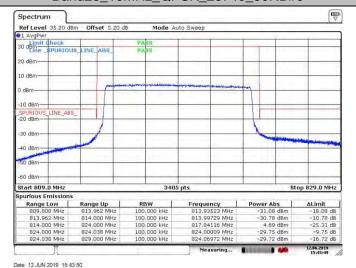


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#### Band26\_10MHz\_QPSK\_26740\_50RB#0



Band26\_10MHz\_QPSK\_26740\_1RB#49



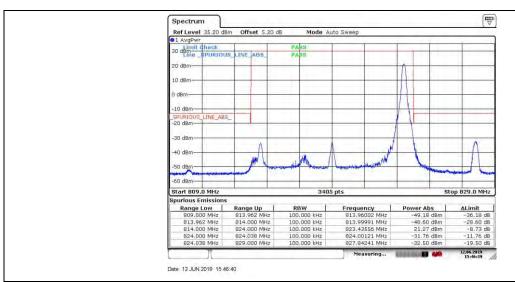
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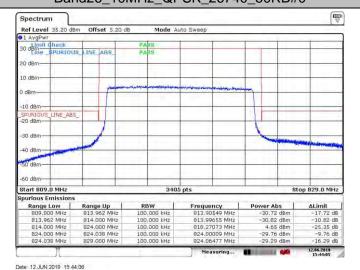
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#### Band26\_10MHz\_QPSK\_26740\_50RB#0



Band26\_10MHz\_16QAM\_26740\_1RB#0



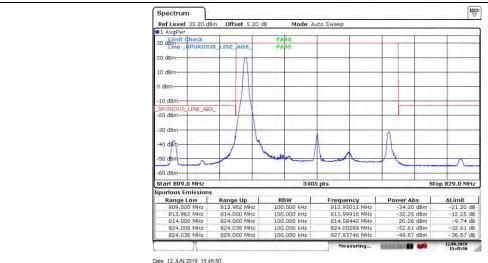
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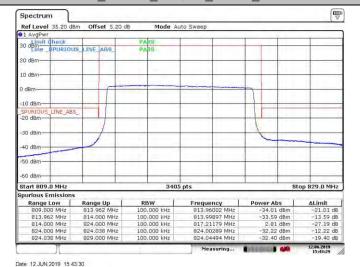
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#### Band26\_10MHz\_16QAM\_26740\_50RB#0

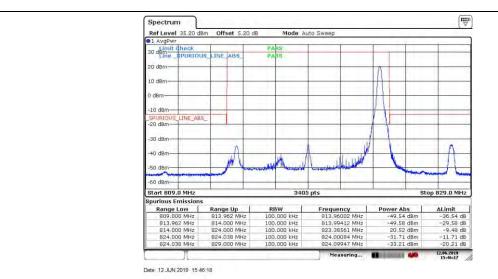


Band26\_10MHz\_16QAM\_26740\_1RB#49

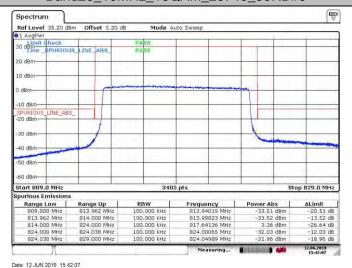


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#### Band26\_10MHz\_16QAM\_26740\_50RB#0





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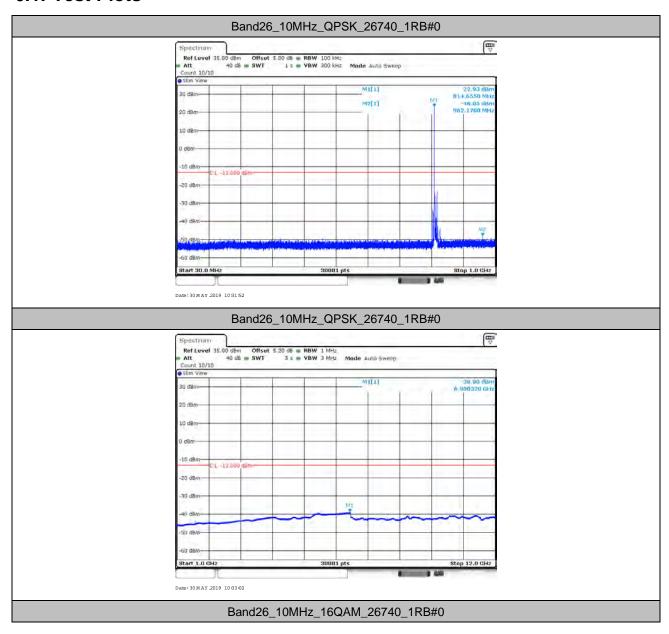
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### 6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k \* (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

#### 6.1. Test Plots

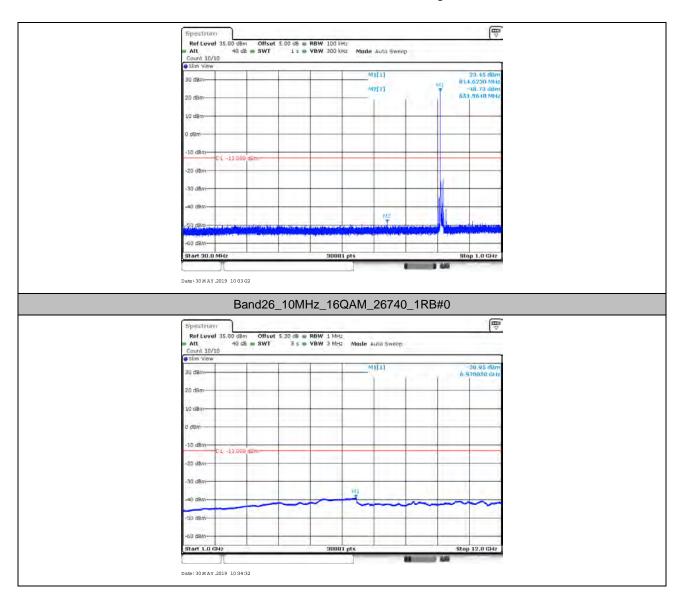






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### 7. Field Strength of Spurious Radiation

#### 7.1. Test BAND = LTE Band 26

#### 7.1.1.Test Mode =LTE/TM1 10MHz

#### 7.1.1.1. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 63.600000       | -80.16      | -13.00           | 67.16       | Vertical     |
| 104.246667      | -77.15      | -13.00           | 64.15       | Vertical     |
| 1654.000000     | -57.17      | -13.00           | 44.17       | Vertical     |
| 2485.500000     | -59.05      | -13.00           | 46.05       | Vertical     |
| 4109.062500     | -66.66      | -13.00           | 53.66       | Vertical     |
| 6040.050000     | -63.58      | -13.00           | 50.58       | Vertical     |
| 54.873333       | -76.45      | -13.00           | 63.45       | Horizontal   |
| 104.293333      | -80.06      | -13.00           | 67.06       | Horizontal   |
| 1654.500000     | -58.78      | -13.00           | 45.78       | Horizontal   |
| 2488.500000     | -59.16      | -13.00           | 46.16       | Horizontal   |
| 4023.750000     | -67.01      | -13.00           | 54.01       | Horizontal   |
| 6166.312500     | -65.07      | -13.00           | 52.07       | Horizontal   |

#### Remark:

The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.

We have tested all modulation and all Bandwidth, but only the worst case data presented in this report.



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### 8. Frequency Stability

### 8.1. Frequency Vs Voltage

|        | Voltage   |              |         |           |         |             |           |           |       |         |  |  |  |  |
|--------|-----------|--------------|---------|-----------|---------|-------------|-----------|-----------|-------|---------|--|--|--|--|
| BAND   | Bandwidth | Modulation   | Channel | RB        | Voltage | Temperature | Deviation | Deviation | Limit | Verdict |  |  |  |  |
| DAIND  | Danawiain | iviodulation | Channel | Configure | [Vdc]   | (°C)        | (Hz)      | (ppm)     | (ppm) | verdict |  |  |  |  |
| Band26 | 10MHz     | QPSK         | 26740   | 50RB#0    | VL      | NT          | -2.70     | -0.003297 | ±2.5  | PASS    |  |  |  |  |
| Band26 | 10MHz     | QPSK         | 26740   | 50RB#0    | VN      | NT          | -1.50     | -0.001832 | ±2.5  | PASS    |  |  |  |  |
| Band26 | 10MHz     | QPSK         | 26740   | 50RB#0    | VH      | NT          | -2.50     | -0.003053 | ±2.5  | PASS    |  |  |  |  |
| Band26 | 10MHz     | 16QAM        | 26740   | 50RB#0    | VL      | NT          | -0.50     | -0.000611 | ±2.5  | PASS    |  |  |  |  |
| Band26 | 10MHz     | 16QAM        | 26740   | 50RB#0    | VN      | NT          | 0.30      | 0.000366  | ±2.5  | PASS    |  |  |  |  |
| Band26 | 10MHz     | 16QAM        | 26740   | 50RB#0    | VH      | NT          | -3.20     | -0.003907 | ±2.5  | PASS    |  |  |  |  |

### 8.2. Frequency Vs Temperature

| Temperatur | Temperature |            |         |                 |                  |                  |                   |                 |                |         |  |  |  |
|------------|-------------|------------|---------|-----------------|------------------|------------------|-------------------|-----------------|----------------|---------|--|--|--|
| BAND       | Bandwidth   | Modulation | Channel | RB<br>Configure | Voltage<br>[Vdc] | Temperature (°C) | Deviation<br>(Hz) | Deviation (ppm) | Limit<br>(ppm) | Verdict |  |  |  |
| Band26     | 10MHz       | QPSK       | 26740   | 50RB#0          | NV               | -30              | -0.60             | -0.000733       | ±2.5           | PASS    |  |  |  |
| Band26     | 10MHz       | QPSK       | 26740   | 50RB#0          | NV               | -20              | -2.80             | -0.003419       | ±2.5           | PASS    |  |  |  |
| Band26     | 10MHz       | QPSK       | 26740   | 50RB#0          | NV               | 0                | -0.80             | -0.000977       | ±2.5           | PASS    |  |  |  |
| Band26     | 10MHz       | QPSK       | 26740   | 50RB#0          | NV               | 10               | -2.10             | -0.002564       | ±2.5           | PASS    |  |  |  |
| Band26     | 10MHz       | QPSK       | 26740   | 50RB#0          | NV               | 20               | -3.20             | -0.003907       | ±2.5           | PASS    |  |  |  |
| Band26     | 10MHz       | QPSK       | 26740   | 50RB#0          | NV               | 30               | -0.40             | -0.000488       | ±2.5           | PASS    |  |  |  |
| Band26     | 10MHz       | QPSK       | 26740   | 50RB#0          | NV               | 40               | -3.20             | -0.003907       | ±2.5           | PASS    |  |  |  |
| Band26     | 10MHz       | QPSK       | 26740   | 50RB#0          | NV               | 50               | -4.30             | -0.005250       | ±2.5           | PASS    |  |  |  |
| Band26     | 10MHz       | 16QAM      | 26740   | 50RB#0          | NV               | -30              | -2.20             | -0.002686       | ±2.5           | PASS    |  |  |  |
| Band26     | 10MHz       | 16QAM      | 26740   | 50RB#0          | NV               | -20              | -1.50             | -0.001832       | ±2.5           | PASS    |  |  |  |
| Band26     | 10MHz       | 16QAM      | 26740   | 50RB#0          | NV               | 0                | -2.70             | -0.003297       | ±2.5           | PASS    |  |  |  |
| Band26     | 10MHz       | 16QAM      | 26740   | 50RB#0          | NV               | 10               | -1.10             | -0.001343       | ±2.5           | PASS    |  |  |  |
| Band26     | 10MHz       | 16QAM      | 26740   | 50RB#0          | NV               | 20               | -3.00             | -0.003663       | ±2.5           | PASS    |  |  |  |
| Band26     | 10MHz       | 16QAM      | 26740   | 50RB#0          | NV               | 30               | -3.90             | -0.004762       | ±2.5           | PASS    |  |  |  |
| Band26     | 10MHz       | 16QAM      | 26740   | 50RB#0          | NV               | 40               | -1.80             | -0.002198       | ±2.5           | PASS    |  |  |  |
| Band26     | 10MHz       | 16QAM      | 26740   | 50RB#0          | NV               | 50               | -2.10             | -0.002564       | ±2.5           | PASS    |  |  |  |

The End

