

# Appendix B

## E-UTRA BAND 26 (814MHz-824MHz)



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## 1. Effective (Isotropic) Radiated Power

### 1.1. Test Result

| BAND   | Bandwidth | Modulation | Channel | RB Configuration | Result (dBm) | Verdict |
|--------|-----------|------------|---------|------------------|--------------|---------|
| Band26 | 1.4MHz    | QPSK       | 26697   | 1RB#0            | 23.40        | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26697   | 1RB#2            | 23.31        | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26697   | 1RB#5            | 23.17        | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26697   | 3RB#0            | 23.38        | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26697   | 3RB#1            | 23.57        | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26697   | 3RB#3            | 23.58        | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26697   | 6RB#0            | 22.51        | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26740   | 1RB#0            | 23.57        | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26740   | 1RB#2            | 23.57        | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26740   | 1RB#5            | 23.59        | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26740   | 3RB#0            | 23.70        | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26740   | 3RB#1            | 23.73        | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26740   | 3RB#3            | 23.90        | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26740   | 6RB#0            | 22.72        | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26783   | 1RB#0            | 23.44        | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26783   | 1RB#2            | 23.65        | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26783   | 1RB#5            | 23.44        | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26783   | 3RB#0            | 23.66        | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26783   | 3RB#1            | 23.82        | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26783   | 3RB#3            | 23.83        | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26783   | 6RB#0            | 22.63        | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26697   | 1RB#0            | 22.19        | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26697   | 1RB#2            | 22.28        | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26697   | 1RB#5            | 22.24        | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26697   | 3RB#0            | 22.65        | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26697   | 3RB#1            | 22.59        | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26697   | 3RB#3            | 22.61        | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26697   | 6RB#0            | 21.51        | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26740   | 1RB#0            | 22.21        | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26740   | 1RB#2            | 22.23        | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26740   | 1RB#5            | 22.07        | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26740   | 3RB#0            | 22.91        | PASS    |



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|        |        |       |       |        |       |      |
|--------|--------|-------|-------|--------|-------|------|
| Band26 | 1.4MHz | 16QAM | 26740 | 3RB#1  | 22.95 | PASS |
| Band26 | 1.4MHz | 16QAM | 26740 | 3RB#3  | 22.79 | PASS |
| Band26 | 1.4MHz | 16QAM | 26740 | 6RB#0  | 21.68 | PASS |
| Band26 | 1.4MHz | 16QAM | 26783 | 1RB#0  | 22.28 | PASS |
| Band26 | 1.4MHz | 16QAM | 26783 | 1RB#2  | 22.36 | PASS |
| Band26 | 1.4MHz | 16QAM | 26783 | 1RB#5  | 22.16 | PASS |
| Band26 | 1.4MHz | 16QAM | 26783 | 3RB#0  | 22.87 | PASS |
| Band26 | 1.4MHz | 16QAM | 26783 | 3RB#1  | 22.86 | PASS |
| Band26 | 1.4MHz | 16QAM | 26783 | 3RB#3  | 22.78 | PASS |
| Band26 | 1.4MHz | 16QAM | 26783 | 6RB#0  | 21.67 | PASS |
| Band26 | 3MHz   | QPSK  | 26705 | 1RB#0  | 23.54 | PASS |
| Band26 | 3MHz   | QPSK  | 26705 | 1RB#8  | 23.55 | PASS |
| Band26 | 3MHz   | QPSK  | 26705 | 1RB#14 | 23.53 | PASS |
| Band26 | 3MHz   | QPSK  | 26705 | 8RB#0  | 22.66 | PASS |
| Band26 | 3MHz   | QPSK  | 26705 | 8RB#4  | 22.53 | PASS |
| Band26 | 3MHz   | QPSK  | 26705 | 8RB#7  | 22.50 | PASS |
| Band26 | 3MHz   | QPSK  | 26705 | 15RB#0 | 22.58 | PASS |
| Band26 | 3MHz   | QPSK  | 26740 | 1RB#0  | 23.58 | PASS |
| Band26 | 3MHz   | QPSK  | 26740 | 1RB#8  | 23.75 | PASS |
| Band26 | 3MHz   | QPSK  | 26740 | 1RB#14 | 23.64 | PASS |
| Band26 | 3MHz   | QPSK  | 26740 | 8RB#0  | 22.79 | PASS |
| Band26 | 3MHz   | QPSK  | 26740 | 8RB#4  | 22.73 | PASS |
| Band26 | 3MHz   | QPSK  | 26740 | 8RB#7  | 22.69 | PASS |
| Band26 | 3MHz   | QPSK  | 26740 | 15RB#0 | 22.69 | PASS |
| Band26 | 3MHz   | QPSK  | 26775 | 1RB#0  | 23.62 | PASS |
| Band26 | 3MHz   | QPSK  | 26775 | 1RB#8  | 23.70 | PASS |
| Band26 | 3MHz   | QPSK  | 26775 | 1RB#14 | 23.22 | PASS |
| Band26 | 3MHz   | QPSK  | 26775 | 8RB#0  | 22.77 | PASS |
| Band26 | 3MHz   | QPSK  | 26775 | 8RB#4  | 22.76 | PASS |
| Band26 | 3MHz   | QPSK  | 26775 | 8RB#7  | 22.70 | PASS |
| Band26 | 3MHz   | QPSK  | 26775 | 15RB#0 | 22.72 | PASS |
| Band26 | 3MHz   | 16QAM | 26705 | 1RB#0  | 22.18 | PASS |
| Band26 | 3MHz   | 16QAM | 26705 | 1RB#8  | 22.16 | PASS |
| Band26 | 3MHz   | 16QAM | 26705 | 1RB#14 | 22.19 | PASS |
| Band26 | 3MHz   | 16QAM | 26705 | 8RB#0  | 21.45 | PASS |
| Band26 | 3MHz   | 16QAM | 26705 | 8RB#4  | 21.42 | PASS |
| Band26 | 3MHz   | 16QAM | 26705 | 8RB#7  | 21.39 | PASS |
| Band26 | 3MHz   | 16QAM | 26705 | 15RB#0 | 21.51 | PASS |
| Band26 | 3MHz   | 16QAM | 26740 | 1RB#0  | 22.36 | PASS |



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|        |      |       |       |         |       |      |
|--------|------|-------|-------|---------|-------|------|
| Band26 | 3MHz | 16QAM | 26740 | 1RB#8   | 22.29 | PASS |
| Band26 | 3MHz | 16QAM | 26740 | 1RB#14  | 22.28 | PASS |
| Band26 | 3MHz | 16QAM | 26740 | 8RB#0   | 21.89 | PASS |
| Band26 | 3MHz | 16QAM | 26740 | 8RB#4   | 21.59 | PASS |
| Band26 | 3MHz | 16QAM | 26740 | 8RB#7   | 21.58 | PASS |
| Band26 | 3MHz | 16QAM | 26740 | 15RB#0  | 21.93 | PASS |
| Band26 | 3MHz | 16QAM | 26775 | 1RB#0   | 22.10 | PASS |
| Band26 | 3MHz | 16QAM | 26775 | 1RB#8   | 22.27 | PASS |
| Band26 | 3MHz | 16QAM | 26775 | 1RB#14  | 22.06 | PASS |
| Band26 | 3MHz | 16QAM | 26775 | 8RB#0   | 21.58 | PASS |
| Band26 | 3MHz | 16QAM | 26775 | 8RB#4   | 21.62 | PASS |
| Band26 | 3MHz | 16QAM | 26775 | 8RB#7   | 21.68 | PASS |
| Band26 | 3MHz | 16QAM | 26775 | 15RB#0  | 21.84 | PASS |
| Band26 | 5MHz | QPSK  | 26715 | 1RB#0   | 23.43 | PASS |
| Band26 | 5MHz | QPSK  | 26715 | 1RB#12  | 23.71 | PASS |
| Band26 | 5MHz | QPSK  | 26715 | 1RB#24  | 23.53 | PASS |
| Band26 | 5MHz | QPSK  | 26715 | 12RB#0  | 22.64 | PASS |
| Band26 | 5MHz | QPSK  | 26715 | 12RB#6  | 22.58 | PASS |
| Band26 | 5MHz | QPSK  | 26715 | 12RB#13 | 22.68 | PASS |
| Band26 | 5MHz | QPSK  | 26715 | 25RB#0  | 22.60 | PASS |
| Band26 | 5MHz | QPSK  | 26740 | 1RB#0   | 23.42 | PASS |
| Band26 | 5MHz | QPSK  | 26740 | 1RB#12  | 23.83 | PASS |
| Band26 | 5MHz | QPSK  | 26740 | 1RB#24  | 23.29 | PASS |
| Band26 | 5MHz | QPSK  | 26740 | 12RB#0  | 22.74 | PASS |
| Band26 | 5MHz | QPSK  | 26740 | 12RB#6  | 22.83 | PASS |
| Band26 | 5MHz | QPSK  | 26740 | 12RB#13 | 22.71 | PASS |
| Band26 | 5MHz | QPSK  | 26740 | 25RB#0  | 22.65 | PASS |
| Band26 | 5MHz | QPSK  | 26765 | 1RB#0   | 23.30 | PASS |
| Band26 | 5MHz | QPSK  | 26765 | 1RB#12  | 23.67 | PASS |
| Band26 | 5MHz | QPSK  | 26765 | 1RB#24  | 23.18 | PASS |
| Band26 | 5MHz | QPSK  | 26765 | 12RB#0  | 22.70 | PASS |
| Band26 | 5MHz | QPSK  | 26765 | 12RB#6  | 22.62 | PASS |
| Band26 | 5MHz | QPSK  | 26765 | 12RB#13 | 22.65 | PASS |
| Band26 | 5MHz | QPSK  | 26765 | 25RB#0  | 22.75 | PASS |
| Band26 | 5MHz | 16QAM | 26715 | 1RB#0   | 22.11 | PASS |
| Band26 | 5MHz | 16QAM | 26715 | 1RB#12  | 22.50 | PASS |
| Band26 | 5MHz | 16QAM | 26715 | 1RB#24  | 22.05 | PASS |
| Band26 | 5MHz | 16QAM | 26715 | 12RB#0  | 21.56 | PASS |
| Band26 | 5MHz | 16QAM | 26715 | 12RB#6  | 21.52 | PASS |



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|        |       |       |       |         |       |      |
|--------|-------|-------|-------|---------|-------|------|
| Band26 | 5MHz  | 16QAM | 26715 | 12RB#13 | 21.42 | PASS |
| Band26 | 5MHz  | 16QAM | 26715 | 25RB#0  | 21.52 | PASS |
| Band26 | 5MHz  | 16QAM | 26740 | 1RB#0   | 22.25 | PASS |
| Band26 | 5MHz  | 16QAM | 26740 | 1RB#12  | 22.50 | PASS |
| Band26 | 5MHz  | 16QAM | 26740 | 1RB#24  | 22.25 | PASS |
| Band26 | 5MHz  | 16QAM | 26740 | 12RB#0  | 21.72 | PASS |
| Band26 | 5MHz  | 16QAM | 26740 | 12RB#6  | 21.70 | PASS |
| Band26 | 5MHz  | 16QAM | 26740 | 12RB#13 | 21.41 | PASS |
| Band26 | 5MHz  | 16QAM | 26740 | 25RB#0  | 21.61 | PASS |
| Band26 | 5MHz  | 16QAM | 26765 | 1RB#0   | 22.13 | PASS |
| Band26 | 5MHz  | 16QAM | 26765 | 1RB#12  | 22.67 | PASS |
| Band26 | 5MHz  | 16QAM | 26765 | 1RB#24  | 21.78 | PASS |
| Band26 | 5MHz  | 16QAM | 26765 | 12RB#0  | 21.51 | PASS |
| Band26 | 5MHz  | 16QAM | 26765 | 12RB#6  | 21.67 | PASS |
| Band26 | 5MHz  | 16QAM | 26765 | 12RB#13 | 21.61 | PASS |
| Band26 | 5MHz  | 16QAM | 26765 | 25RB#0  | 21.58 | PASS |
| Band26 | 10MHz | QPSK  | 26740 | 1RB#0   | 23.42 | PASS |
| Band26 | 10MHz | QPSK  | 26740 | 1RB#24  | 24.07 | PASS |
| Band26 | 10MHz | QPSK  | 26740 | 1RB#49  | 23.27 | PASS |
| Band26 | 10MHz | QPSK  | 26740 | 25RB#0  | 22.79 | PASS |
| Band26 | 10MHz | QPSK  | 26740 | 25RB#12 | 22.85 | PASS |
| Band26 | 10MHz | QPSK  | 26740 | 25RB#25 | 22.66 | PASS |
| Band26 | 10MHz | QPSK  | 26740 | 50RB#0  | 22.64 | PASS |
| Band26 | 10MHz | 16QAM | 26740 | 1RB#0   | 22.34 | PASS |
| Band26 | 10MHz | 16QAM | 26740 | 1RB#24  | 22.40 | PASS |
| Band26 | 10MHz | 16QAM | 26740 | 1RB#49  | 22.40 | PASS |
| Band26 | 10MHz | 16QAM | 26740 | 25RB#0  | 21.57 | PASS |
| Band26 | 10MHz | 16QAM | 26740 | 25RB#12 | 21.70 | PASS |
| Band26 | 10MHz | 16QAM | 26740 | 25RB#25 | 21.66 | PASS |
| Band26 | 10MHz | 16QAM | 26740 | 50RB#0  | 21.56 | PASS |

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{ERP [dBm]} = \text{Conducted power [dBm]} + \text{Gain [dBd]}$$



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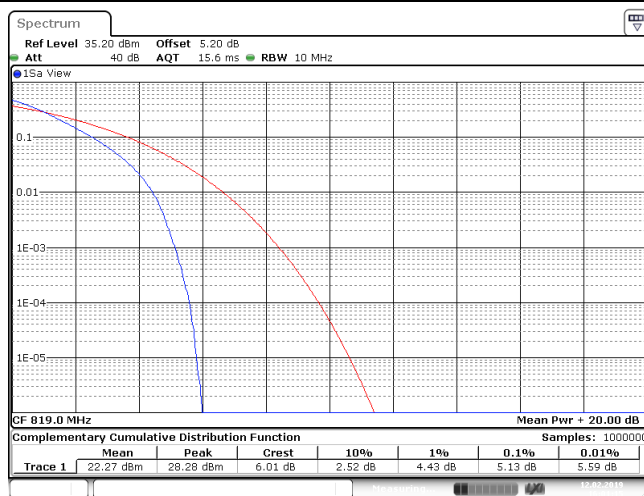
## 2. Peak-to-Average Ratio(CCDF)

### 2.1. Test Result

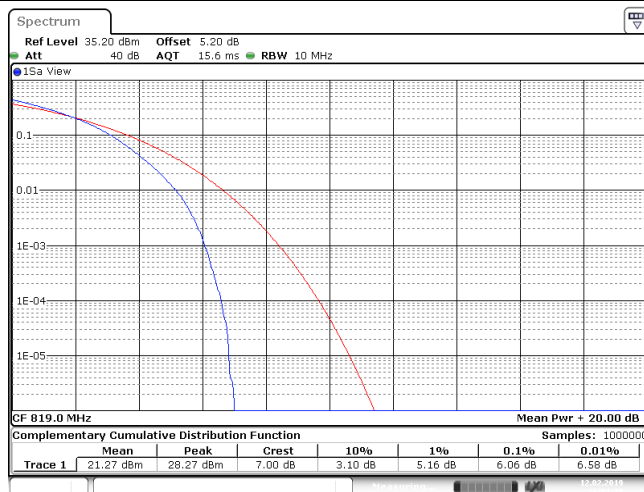
| BAND   | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band26 | 10MHz     | QPSK       | 26740   | 50RB#0           | 5.13       | 13        | PASS    |
| Band26 | 10MHz     | 16QAM      | 26740   | 50RB#0           | 6.06       | 13        | PASS    |

### 2.2. Test Plots

Band26\_10MHz\_QPSK\_26740\_50RB#0



Band26\_10MHz\_16QAM\_26740\_50RB#0

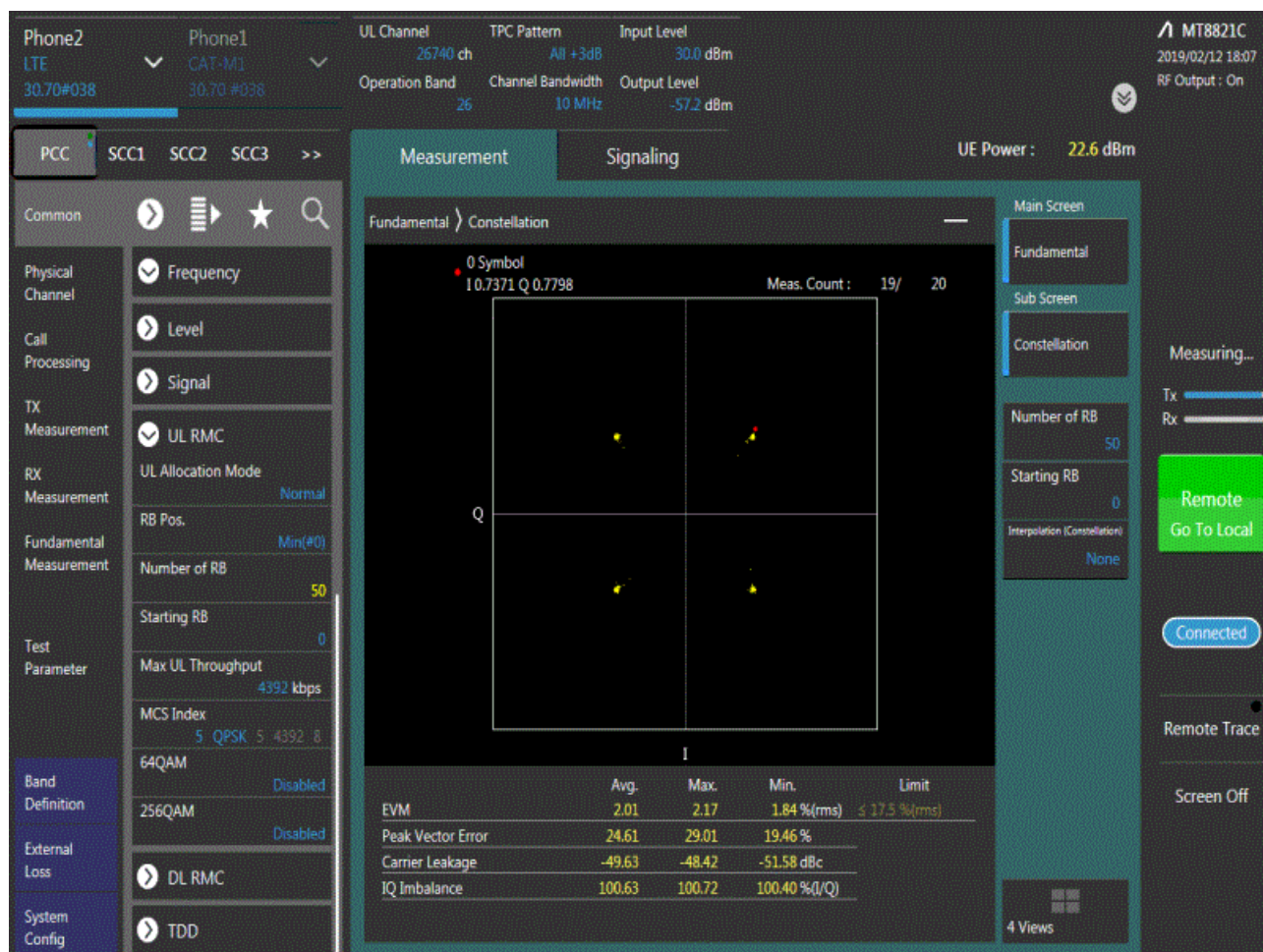


### 3. Modulation Characteristics

#### 3.1. Test BAND = LTE BAND26

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

##### 3.1.1.1. Test Channel = MCH



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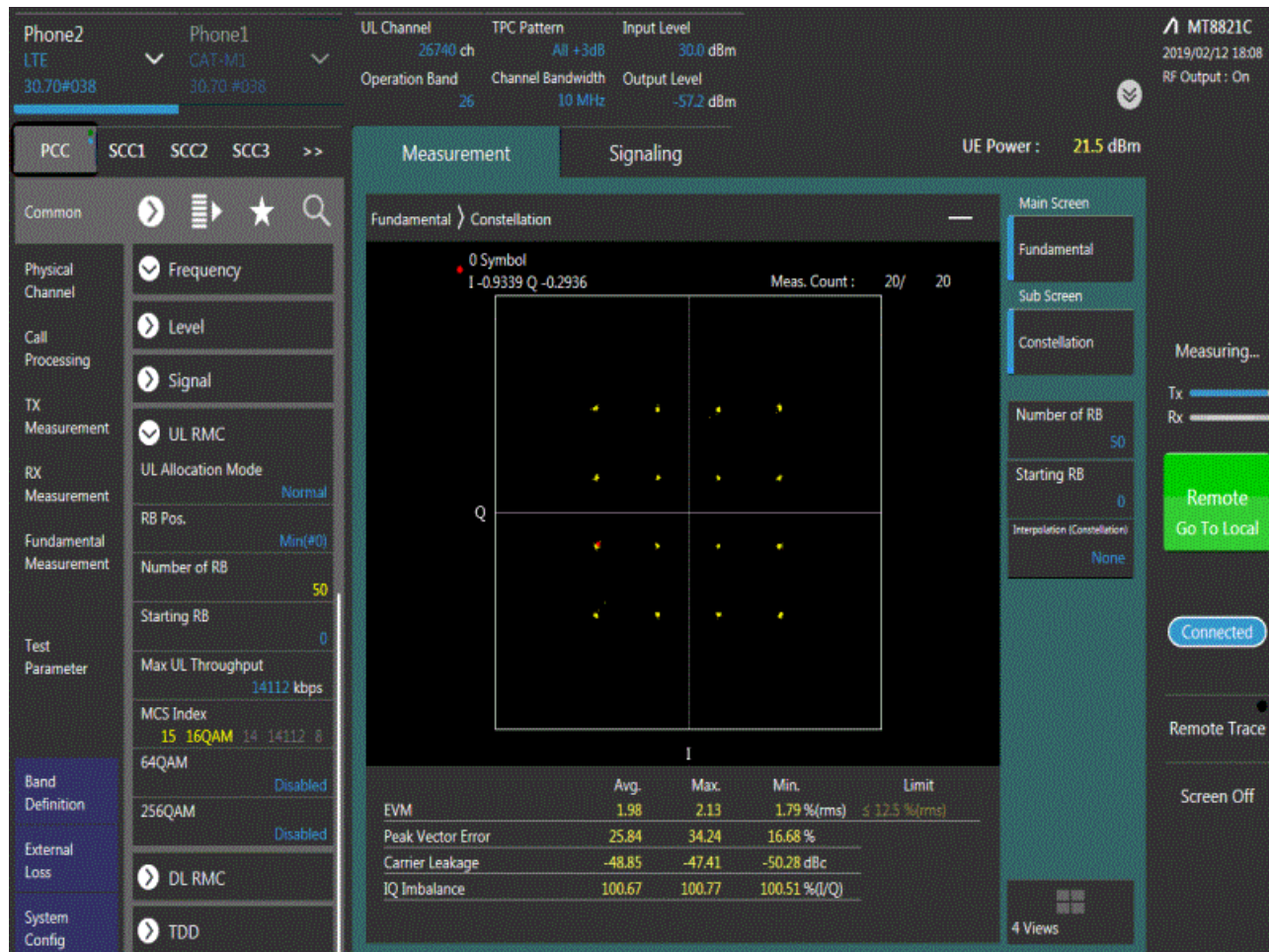
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## 3.1.2. Test Mode = LTE /TM2 10MHz

### 3.1.2.1. Test Channel = MCH



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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

| BAND   | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band26 | 1.4MHz    | QPSK       | 26697   | 6RB#0            | 1.091                    | 1.287                | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26740   | 6RB#0            | 1.091                    | 1.284                | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26783   | 6RB#0            | 1.094                    | 1.290                | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26697   | 6RB#0            | 1.091                    | 1.284                | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26740   | 6RB#0            | 1.091                    | 1.287                | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26783   | 6RB#0            | 1.091                    | 1.284                | PASS    |
| Band26 | 3MHz      | QPSK       | 26705   | 15RB#0           | 2.691                    | 2.988                | PASS    |
| Band26 | 3MHz      | QPSK       | 26740   | 15RB#0           | 2.703                    | 2.994                | PASS    |
| Band26 | 3MHz      | QPSK       | 26775   | 15RB#0           | 2.697                    | 2.994                | PASS    |
| Band26 | 3MHz      | 16QAM      | 26705   | 15RB#0           | 2.685                    | 2.976                | PASS    |
| Band26 | 3MHz      | 16QAM      | 26740   | 15RB#0           | 2.685                    | 2.976                | PASS    |
| Band26 | 3MHz      | 16QAM      | 26775   | 15RB#0           | 2.685                    | 2.976                | PASS    |
| Band26 | 5MHz      | QPSK       | 26715   | 25RB#0           | 4.476                    | 4.910                | PASS    |
| Band26 | 5MHz      | QPSK       | 26740   | 25RB#0           | 4.476                    | 4.930                | PASS    |
| Band26 | 5MHz      | QPSK       | 26765   | 25RB#0           | 4.476                    | 4.960                | PASS    |
| Band26 | 5MHz      | 16QAM      | 26715   | 25RB#0           | 4.486                    | 4.940                | PASS    |
| Band26 | 5MHz      | 16QAM      | 26740   | 25RB#0           | 4.496                    | 4.950                | PASS    |
| Band26 | 5MHz      | 16QAM      | 26765   | 25RB#0           | 4.486                    | 4.940                | PASS    |
| Band26 | 10MHz     | QPSK       | 26740   | 50RB#0           | 8.911                    | 9.720                | PASS    |
| Band26 | 10MHz     | 16QAM      | 26740   | 50RB#0           | 8.911                    | 9.700                | PASS    |



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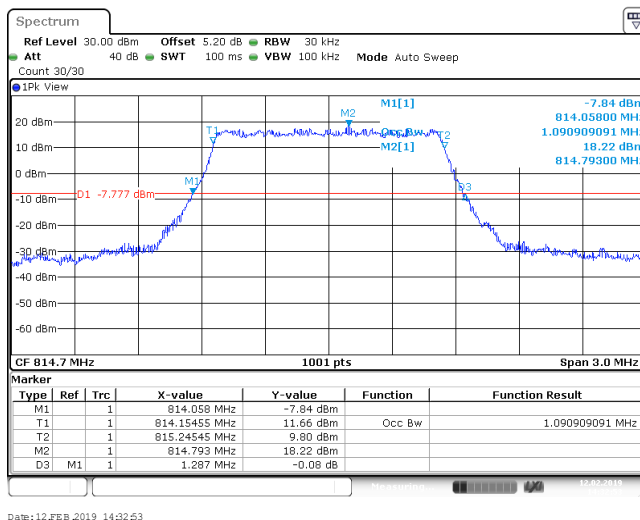
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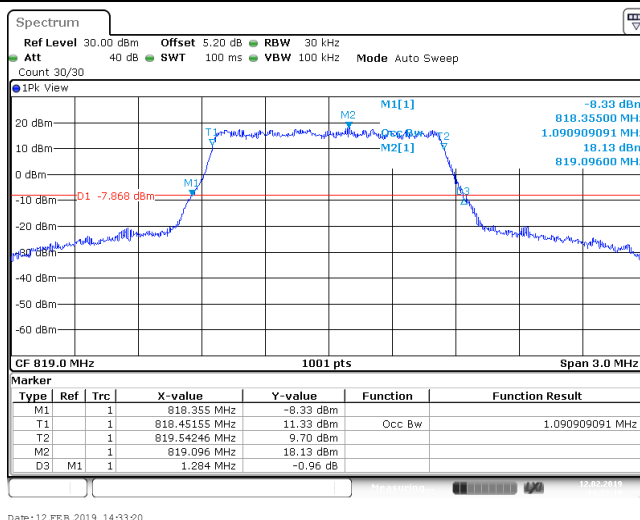
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中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

## 4.2. Test Plots

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

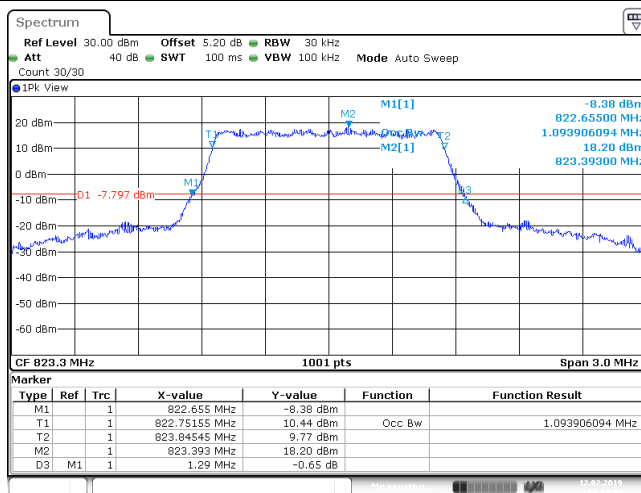


Band26\_1.4MHz\_QPSK\_26740\_6RB#0



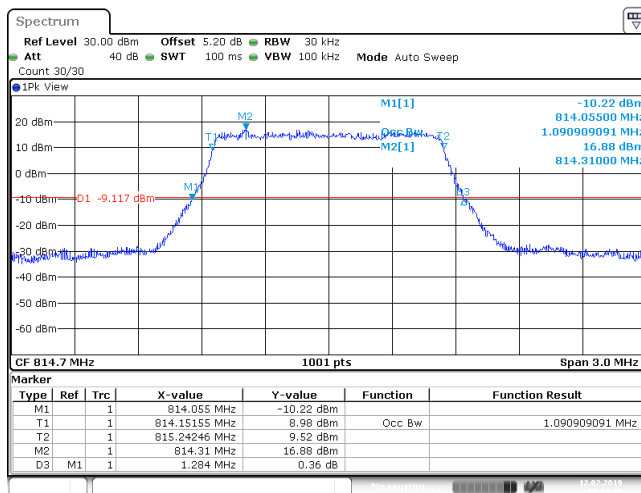
Band26\_1.4MHz\_QPSK\_26783\_6RB#0





Date: 12 FEB 2019 14:33:46

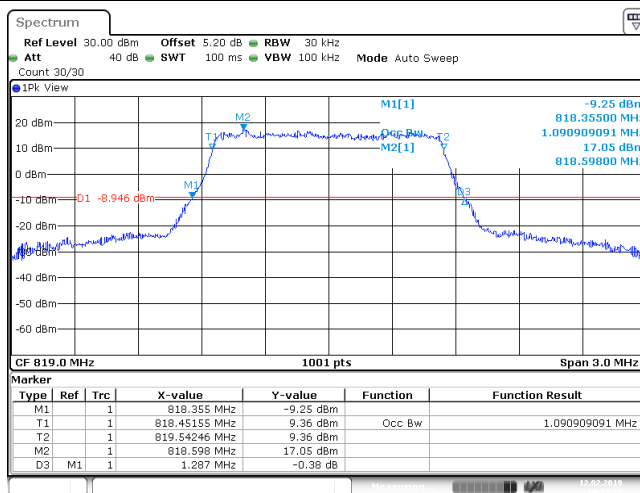
## Band26\_1.4MHz\_16QAM\_26697\_6RB#0



Date: 12 FEB 2019 14:33:06

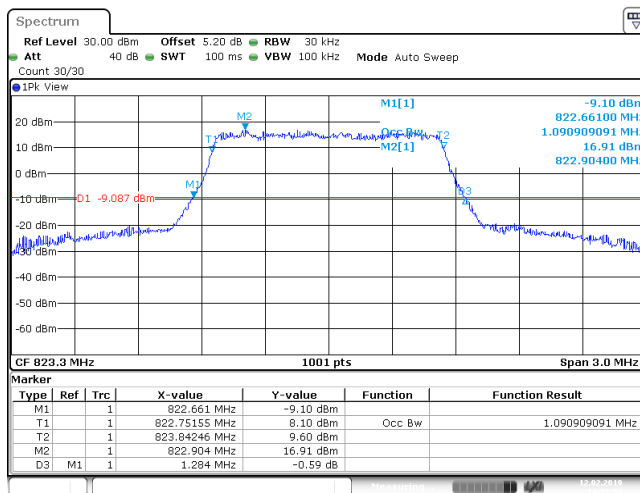
## Band26\_1.4MHz\_16QAM\_26740\_6RB#0





Date: 12 FEB 2019 14:33:32

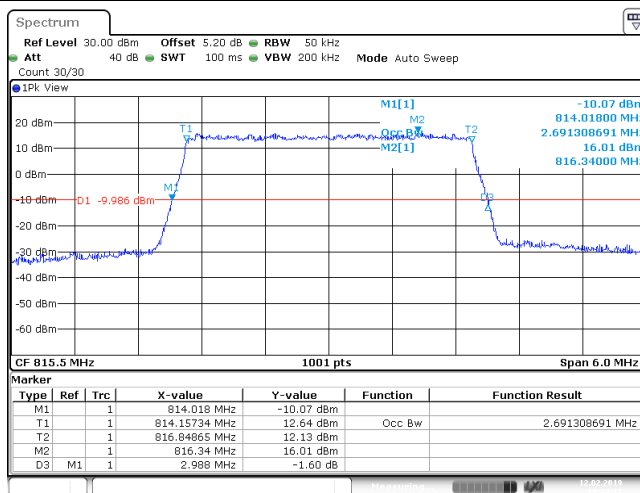
## Band26\_1.4MHz\_16QAM\_26783\_6RB#0



Date: 12 FEB 2019 14:33:59

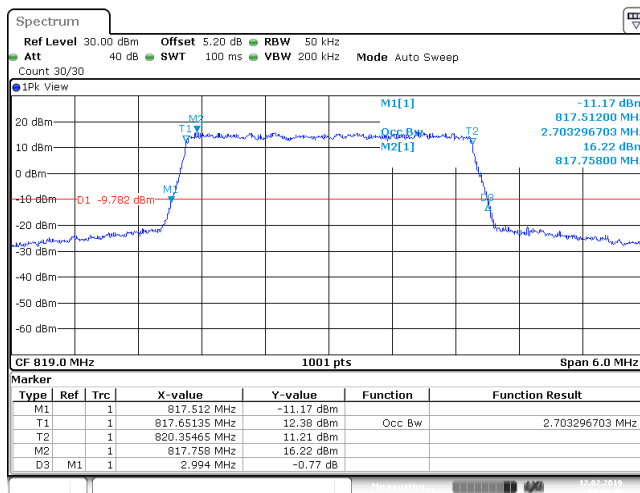
## Band26\_3MHz\_QPSK\_26705\_15RB#0





Date: 12 FEB 2019 14:34:17

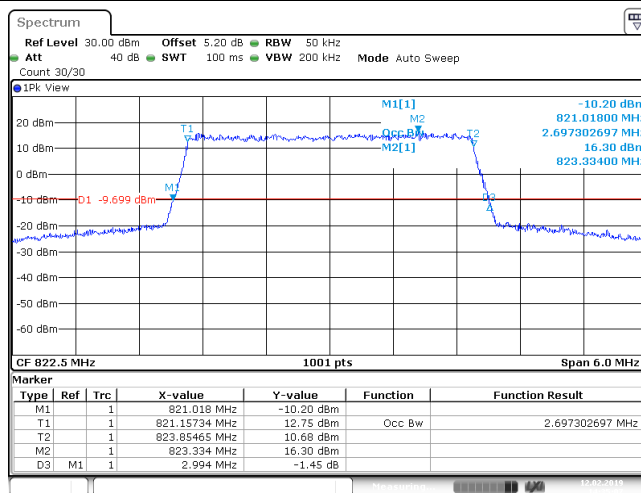
## Band26\_3MHz\_QPSK\_26740\_15RB#0



Date: 12 FEB 2019 14:34:12

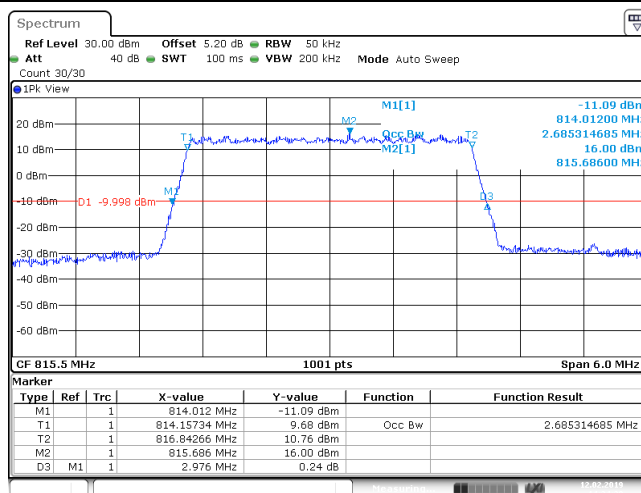
## Band26\_3MHz\_QPSK\_26775\_15RB#0





Date: 12 FEB 2019 14:35:08

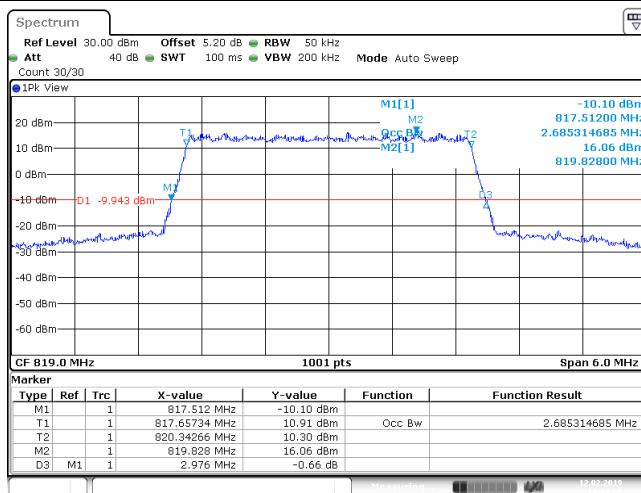
## Band26\_3MHz\_16QAM\_26705\_15RB#0



Date: 12 FEB 2019 14:34:29

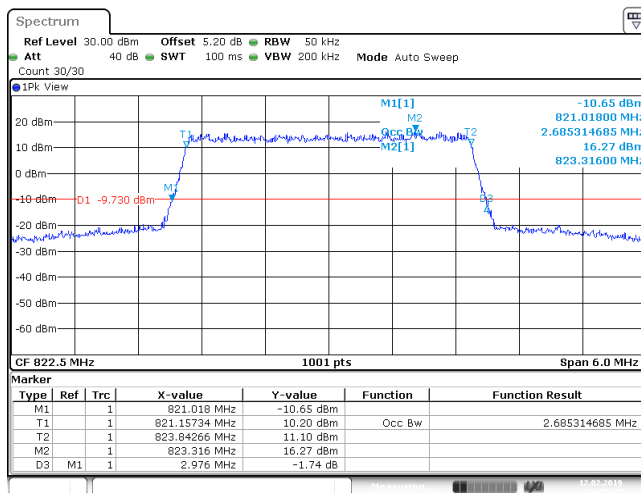
## Band26\_3MHz\_16QAM\_26740\_15RB#0





Date: 12 FEB 2019 14:34:55

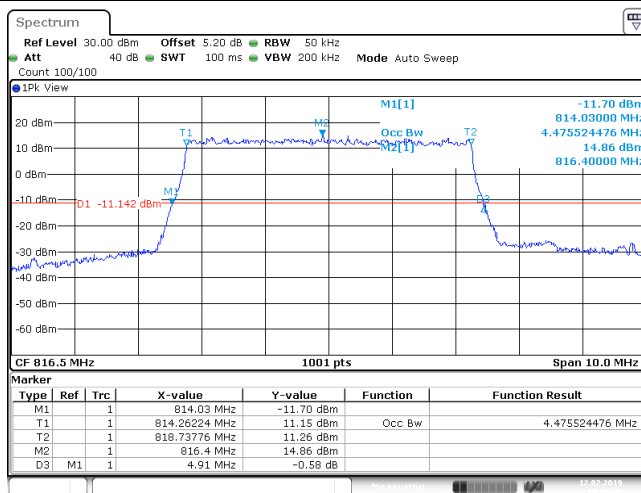
## Band26\_3MHz\_16QAM\_26775\_15RB#0



Date: 12 FEB 2019 14:35:21

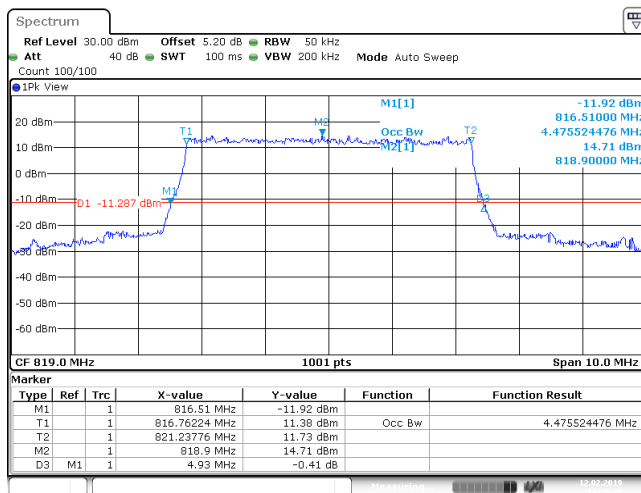
## Band26\_5MHz\_QPSK\_26715\_25RB#0





Date: 12 FEB 2019 14:35:46

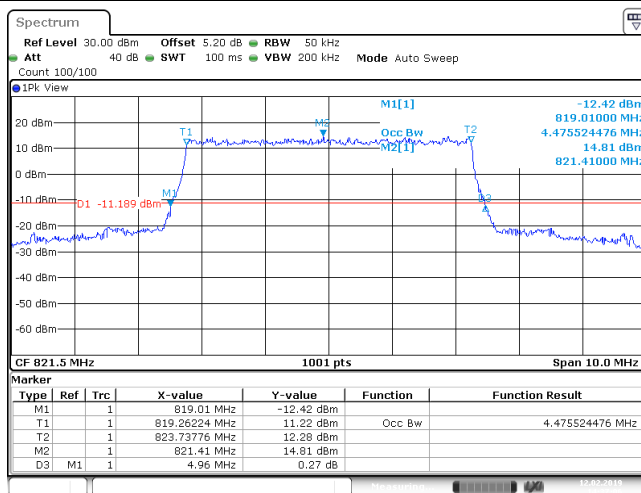
## Band26\_5MHz\_QPSK\_26740\_25RB#0



Date: 12 FEB 2019 14:36:27

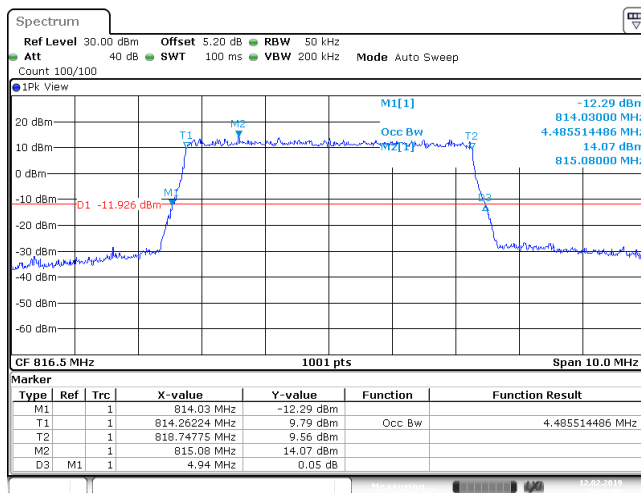
## Band26\_5MHz\_QPSK\_26765\_25RB#0





Date: 12 FEB 2019 14:37:07

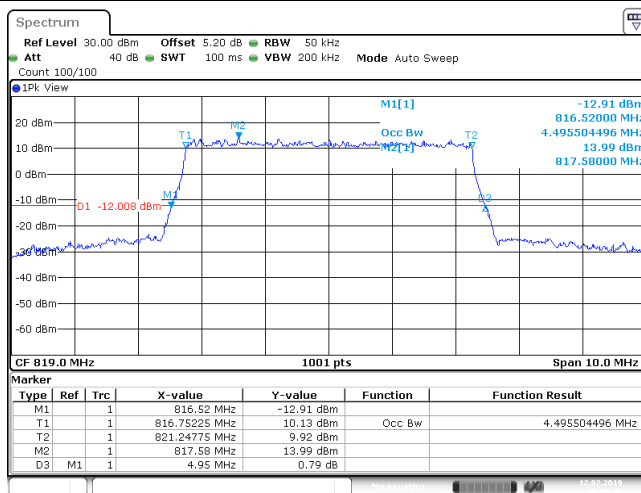
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Date: 12 FEB 2019 14:36:06

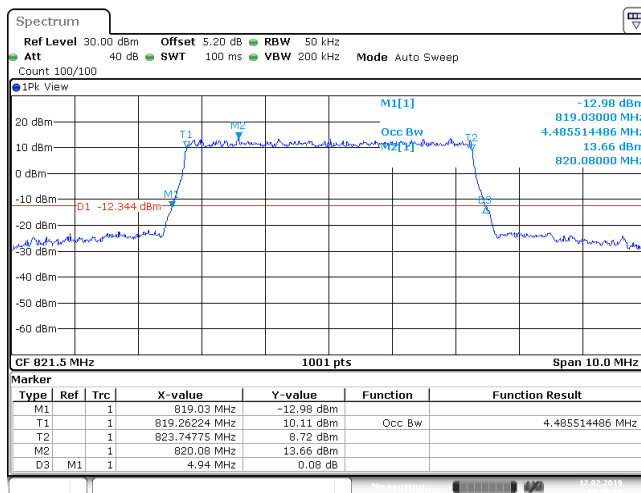
## Band26\_5MHz\_16QAM\_26740\_25RB#0





Date: 12 FEB 2019 14:36:47

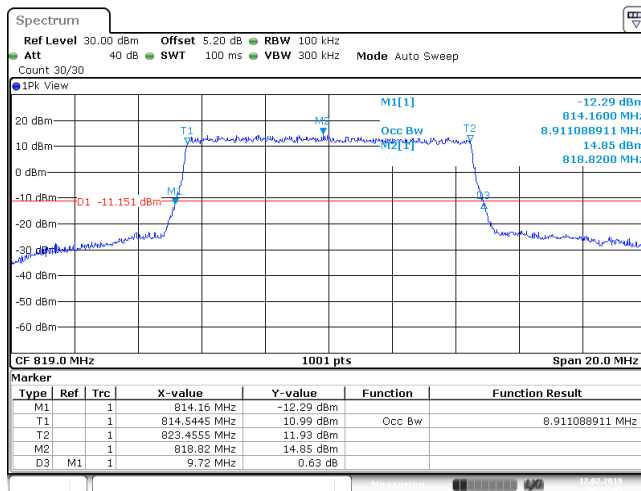
## Band26\_5MHz\_16QAM\_26765\_25RB#0



Date: 12 FEB 2019 14:37:27

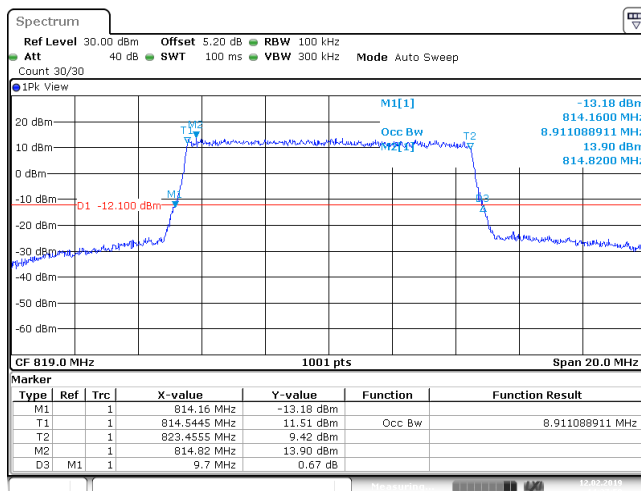
## Band26\_10MHz\_QPSK\_26740\_50RB#0





Date: 12 FEB 2019 14:37:45

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



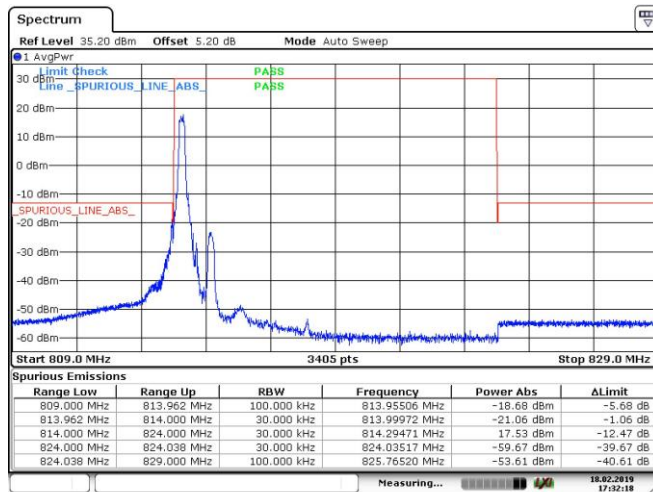
Date: 12 FEB 2019 14:37:58



## 5. Band Edge Compliance

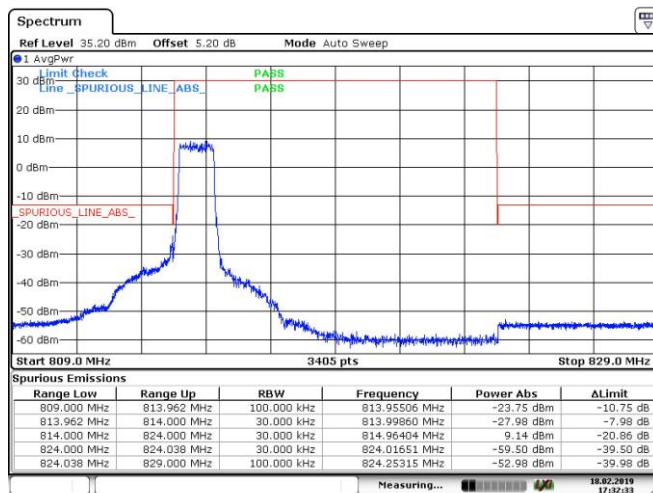
### 5.1. Test Plots

Band26\_1.4MHz\_QPSK\_26697\_1RB#0



Date: 18 FEB 2019 17:32:18

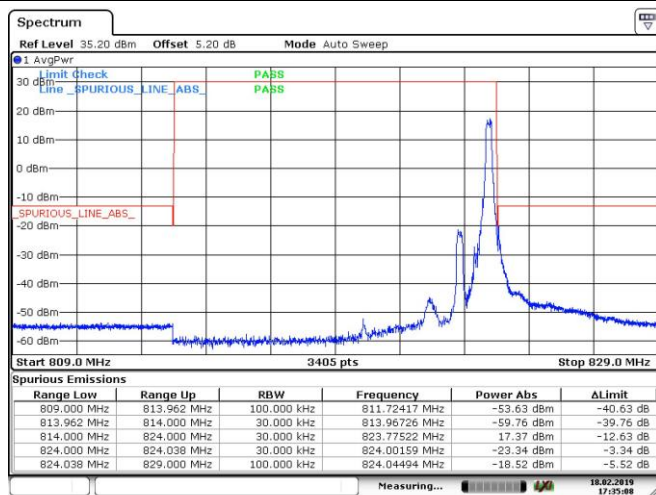
Band26\_1.4MHz\_QPSK\_26697\_6RB#0



Date: 18 FEB 2019 17:32:34

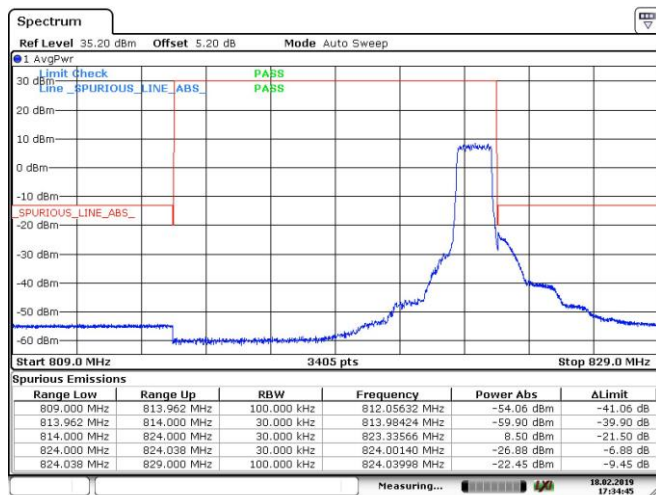
Band26\_1.4MHz\_QPSK\_26783\_1RB#5





Date: 18 FEB 2019 17:35:09

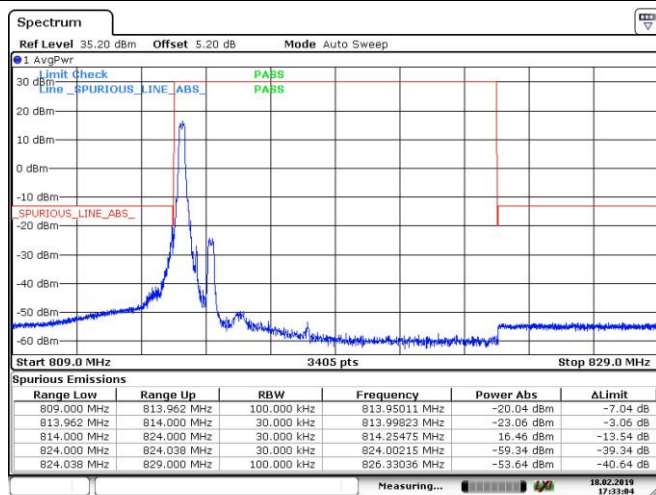
## Band26\_1.4MHz\_QPSK\_26783\_6RB#0



Date: 18 FEB 2019 17:34:45

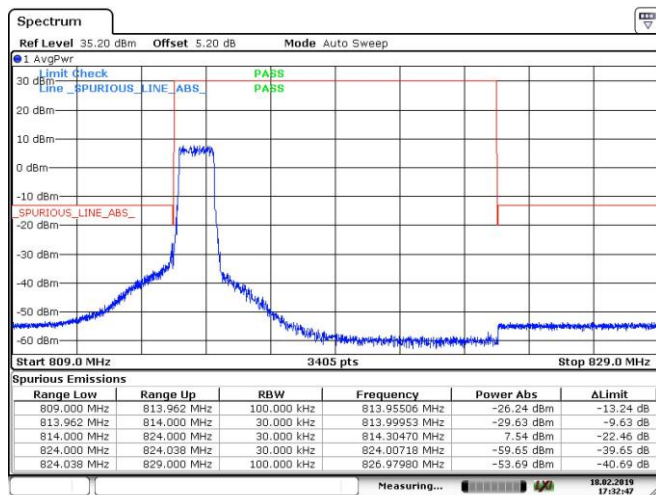
## Band26\_1.4MHz\_16QAM\_26697\_1RB#0





Date: 18 FEB 2019 17:33:03

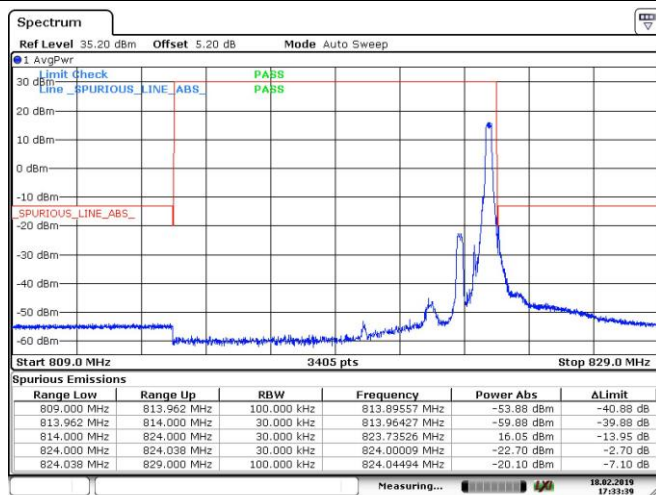
## Band26\_1.4MHz\_16QAM\_26697\_6RB#0



Date: 18 FEB 2019 17:32:48

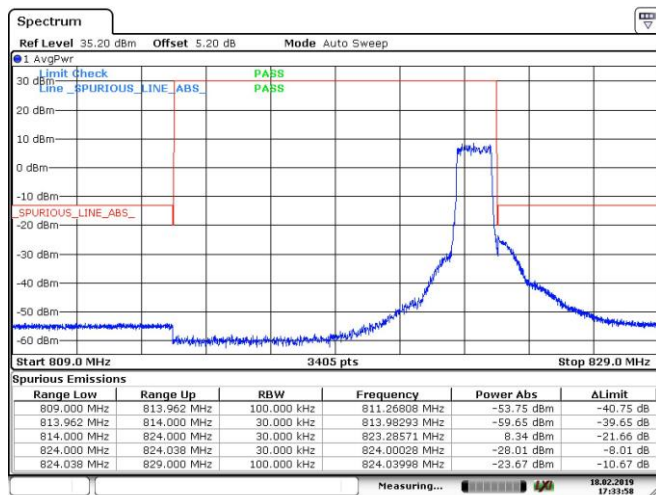
## Band26\_1.4MHz\_16QAM\_26783\_1RB#5





Date: 18 FEB 2019 17:33:40

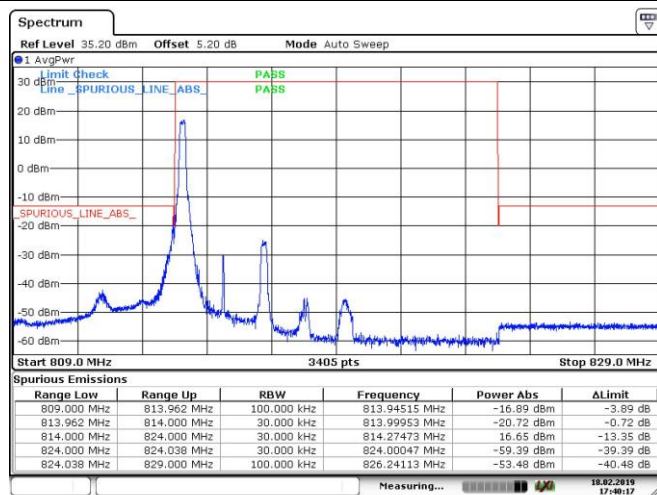
## Band26\_1.4MHz\_16QAM\_26783\_6RB#0



Date: 18 FEB 2019 17:33:59

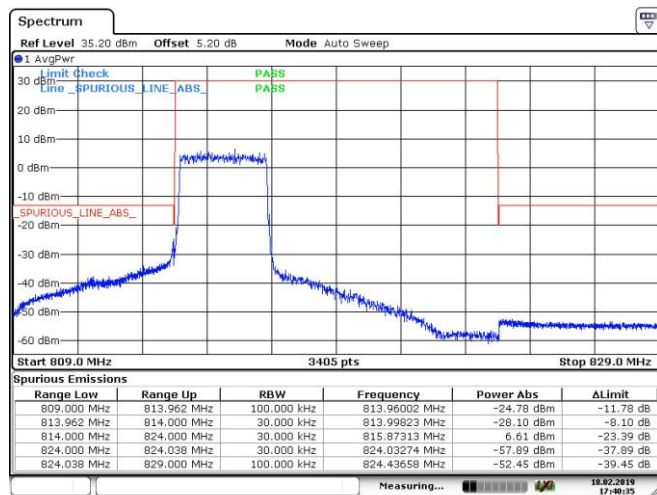
## Band26\_3MHz\_QPSK\_26705\_1RB#0





Date: 18 FEB 2019 17:40:16

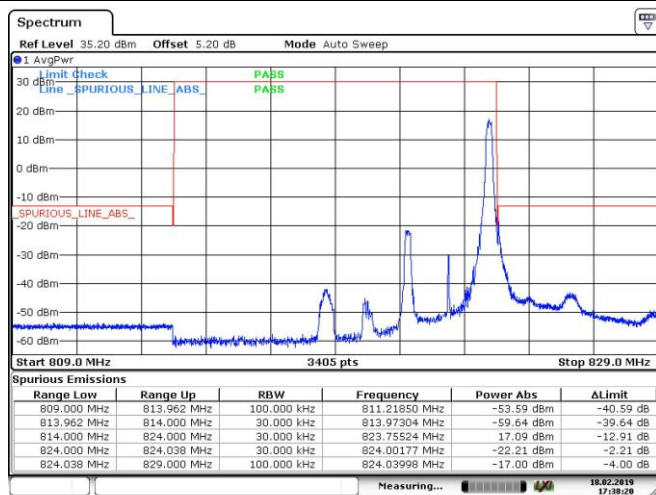
## Band26\_3MHz\_QPSK\_26705\_15RB#0



Date: 18 FEB 2019 17:40:35

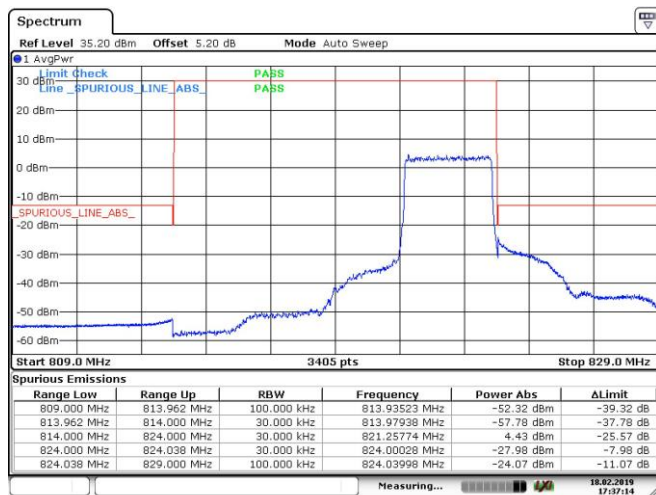
## Band26\_3MHz\_QPSK\_26775\_1RB#14





Date: 18 FEB 2019 17:38:20

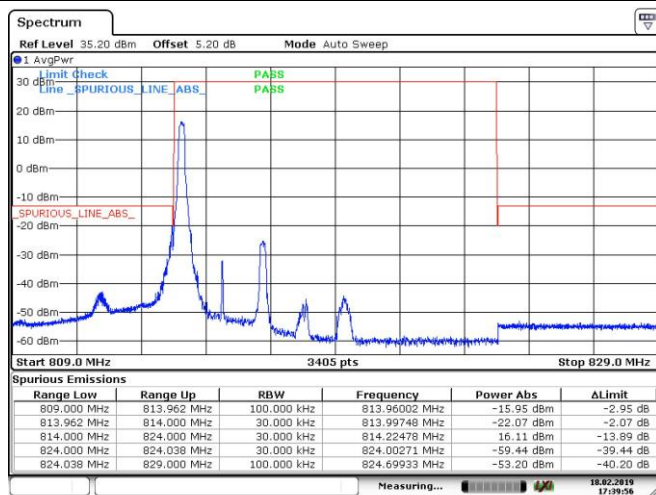
## Band26\_3MHz\_QPSK\_26775\_15RB#0



Date: 18 FEB 2019 17:37:15

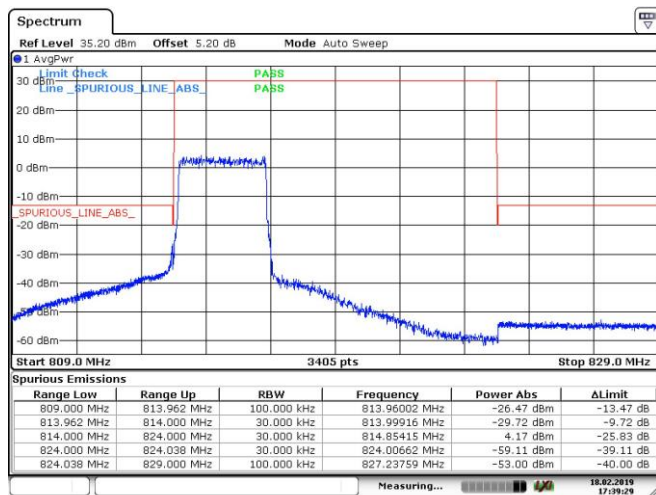
## Band26\_3MHz\_16QAM\_26705\_1RB#0





Date: 18 FEB 2019 17:39:57

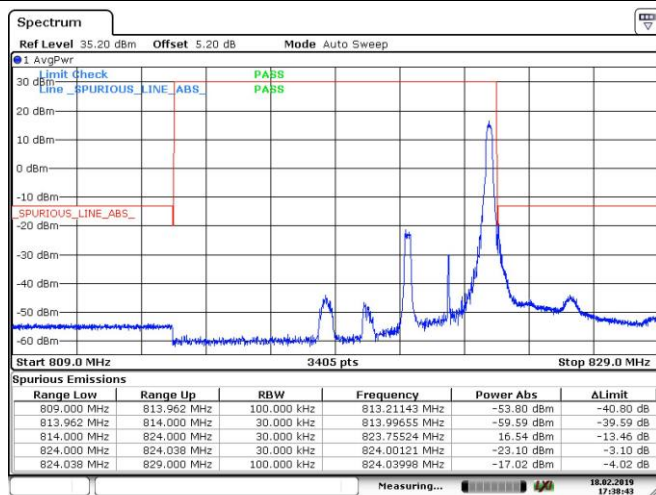
## Band26\_3MHz\_16QAM\_26705\_15RB#0



Date: 18 FEB 2019 17:39:29

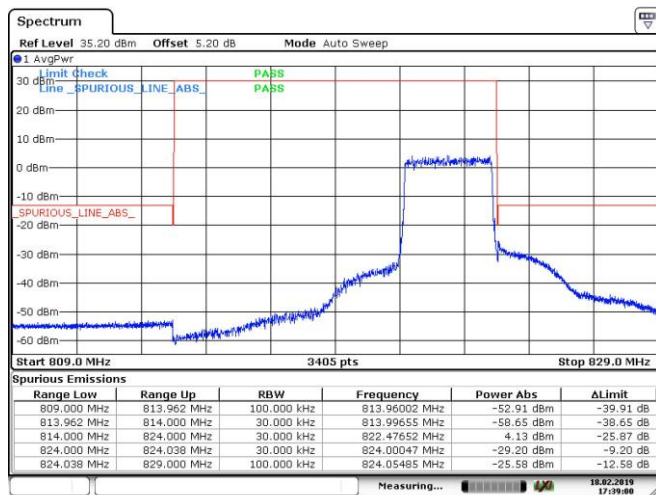
## Band26\_3MHz\_16QAM\_26775\_1RB#14





Date: 18 FEB 2019 17:38:44

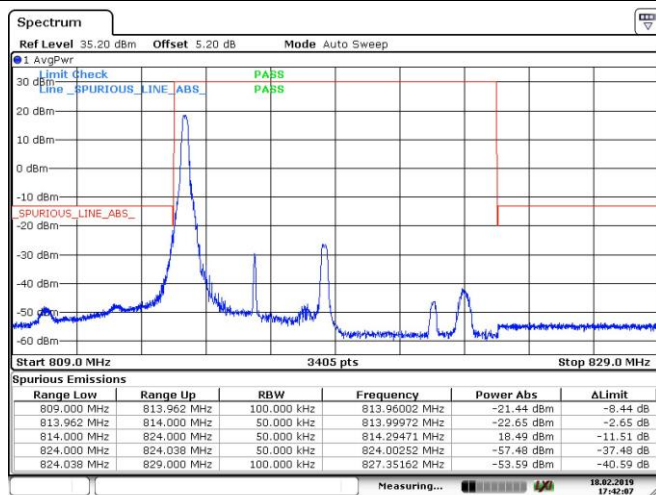
## Band26\_3MHz\_16QAM\_26775\_15RB#0



Date: 18 FEB 2019 17:39:01

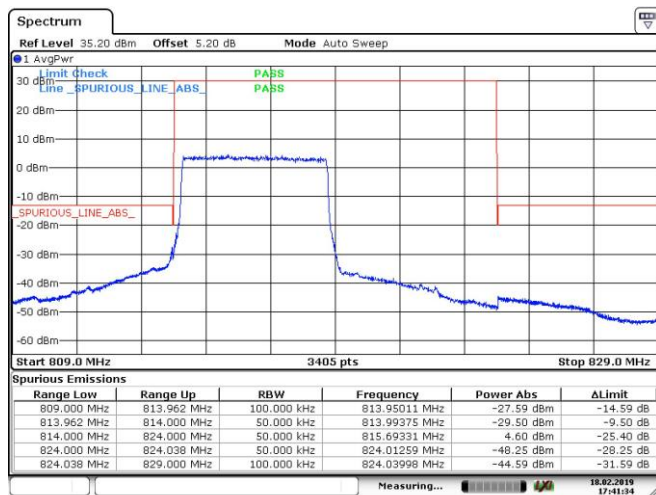
## Band26\_5MHz\_QPSK\_26715\_1RB#0





Date: 18 FEB 2019 17:42:07

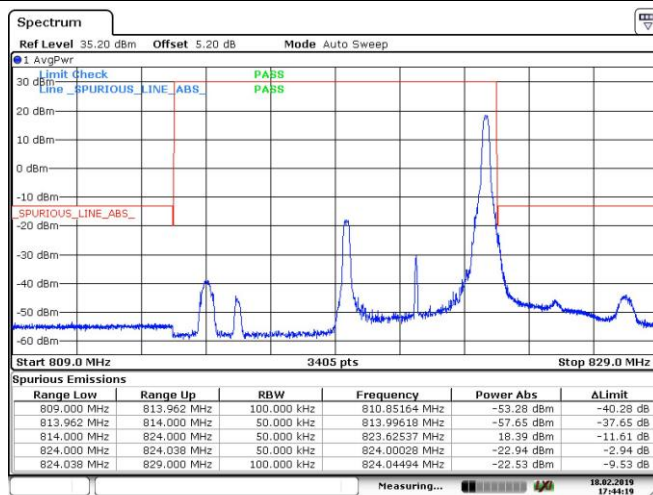
## Band26\_5MHz\_QPSK\_26715\_25RB#0



Date: 18 FEB 2019 17:41:33

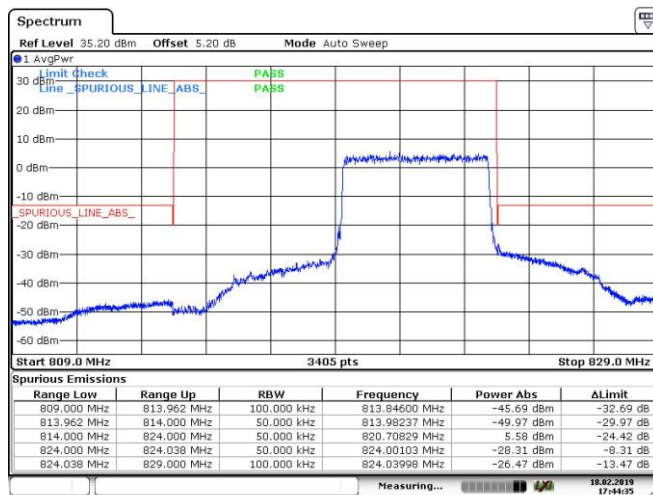
## Band26\_5MHz\_QPSK\_26765\_1RB#24





Date: 18 FEB 2019 17:44:20

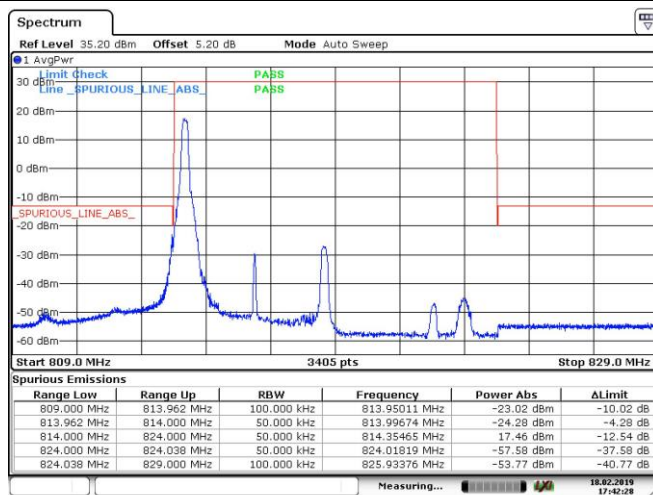
## Band26\_5MHz\_QPSK\_26765\_25RB#0



Date: 18 FEB 2019 17:44:35

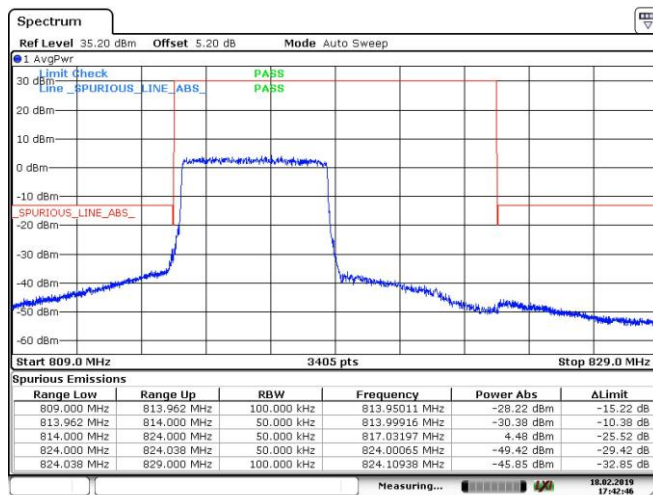
## Band26\_5MHz\_16QAM\_26715\_1RB#0





Date: 18 FEB 2019 17:42:29

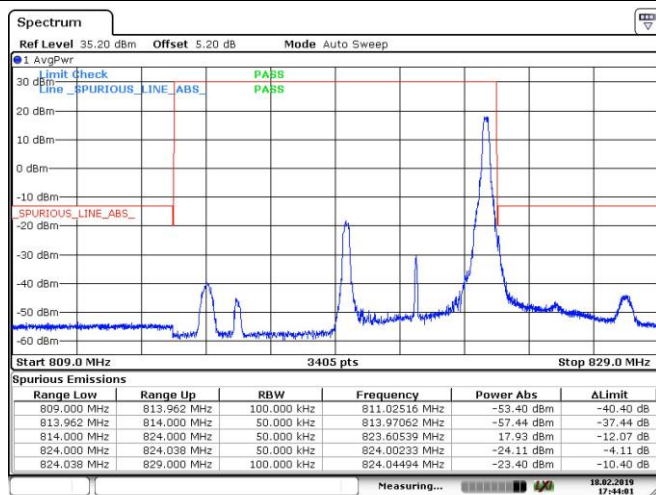
## Band26\_5MHz\_16QAM\_26715\_25RB#0



Date: 18 FEB 2019 17:42:45

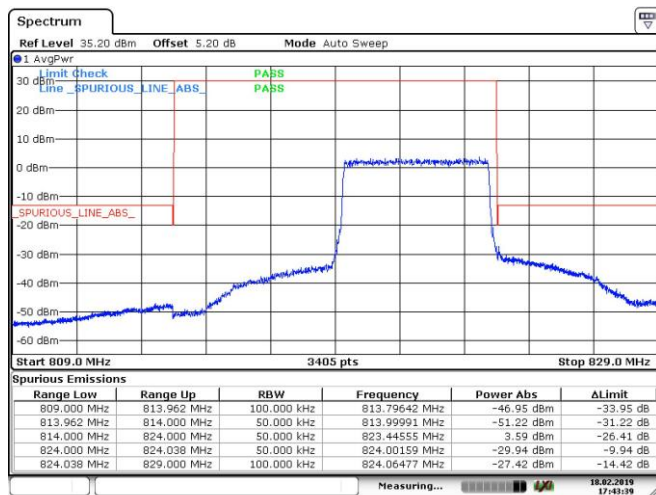
## Band26\_5MHz\_16QAM\_26765\_1RB#24





Date: 18 FEB 2019 17:44:01

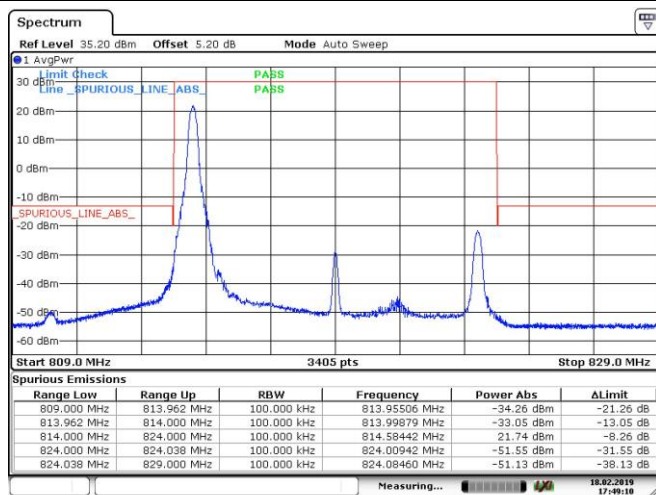
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Date: 18 FEB 2019 17:43:40

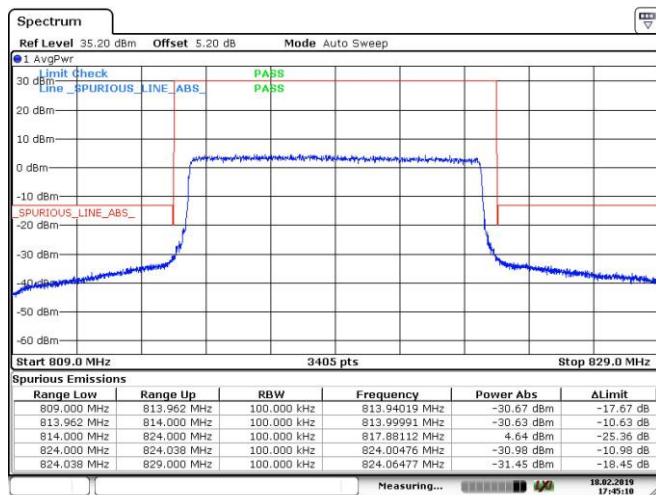
## Band26\_10MHz\_QPSK\_26740\_1RB#0





Date: 18 FEB 2019 17:49:10

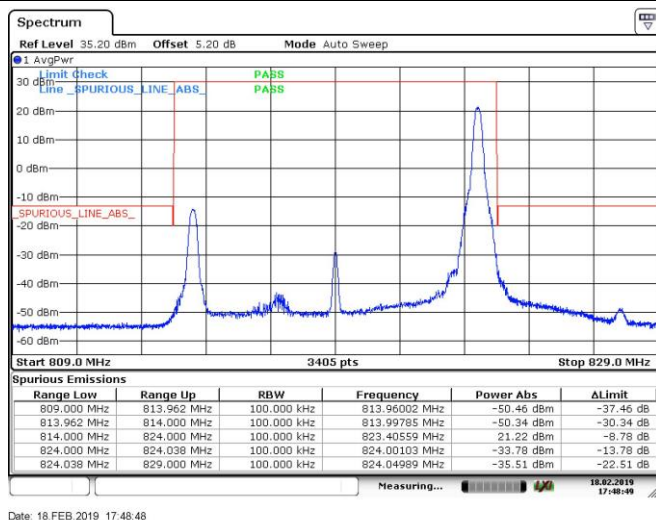
## Band26\_10MHz\_QPSK\_26740\_50RB#0



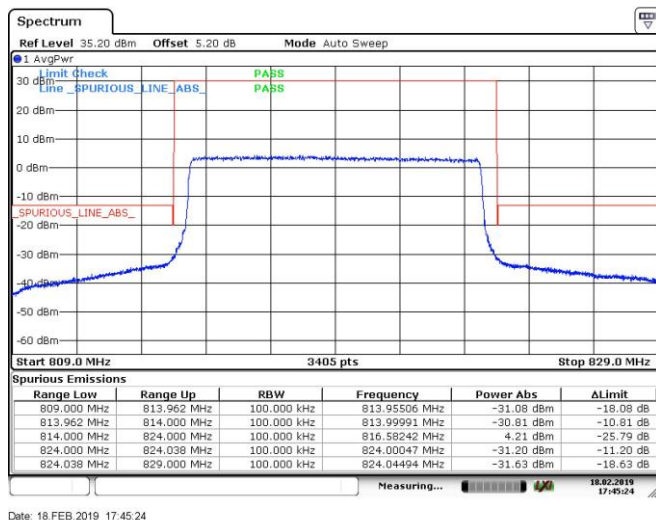
Date: 18 FEB 2019 17:45:09

## Band26\_10MHz\_QPSK\_26740\_1RB#49



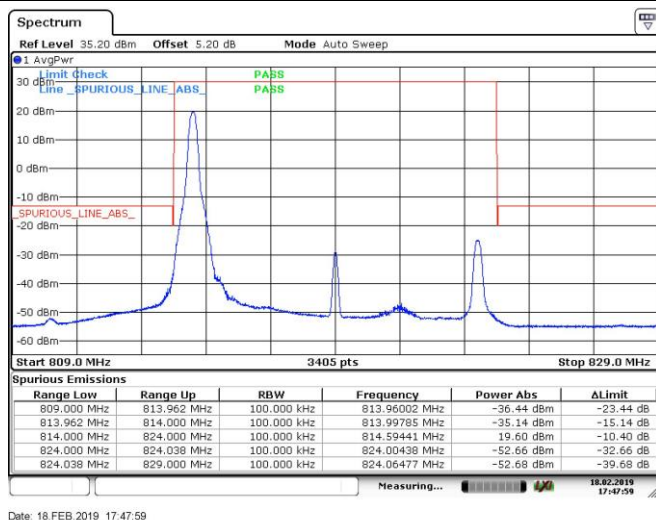


## Band26\_10MHz\_QPSK\_26740\_50RB#0



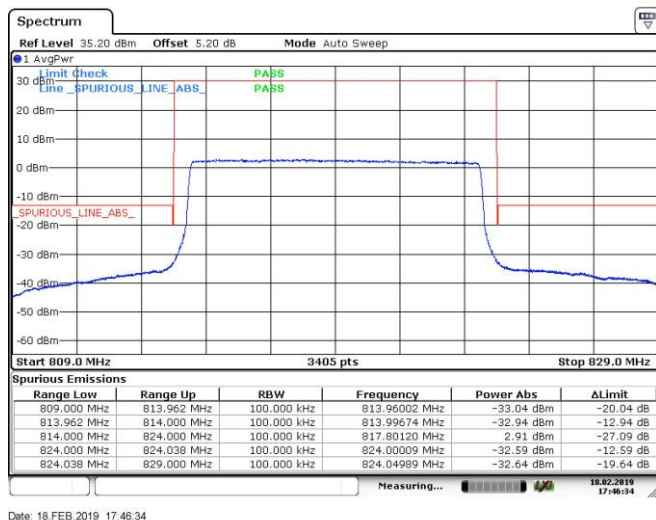
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Date: 18 FEB 2019 17:47:59

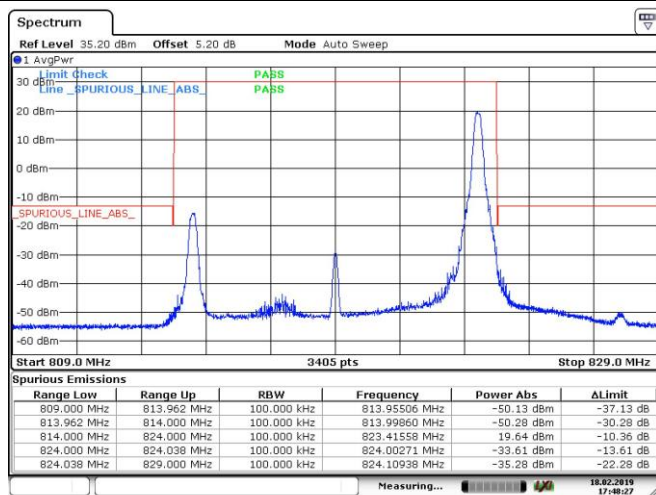
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Date: 18 FEB 2019 17:46:34

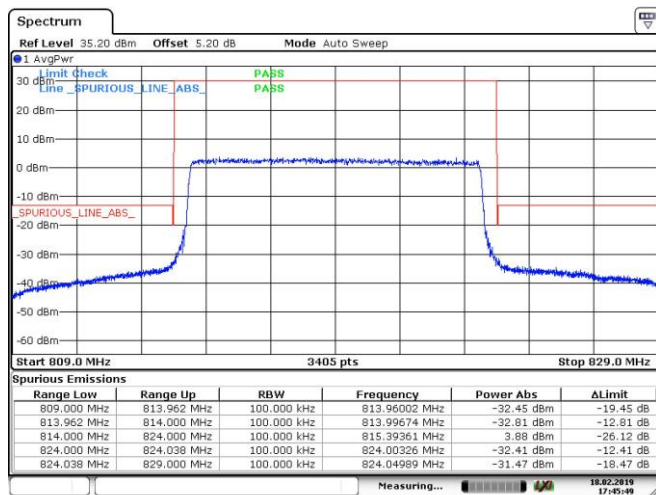
## Band26\_10MHz\_16QAM\_26740\_1RB#49





Date: 18 FEB 2019 17:46:28

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



Date: 18 FEB 2019 17:45:49



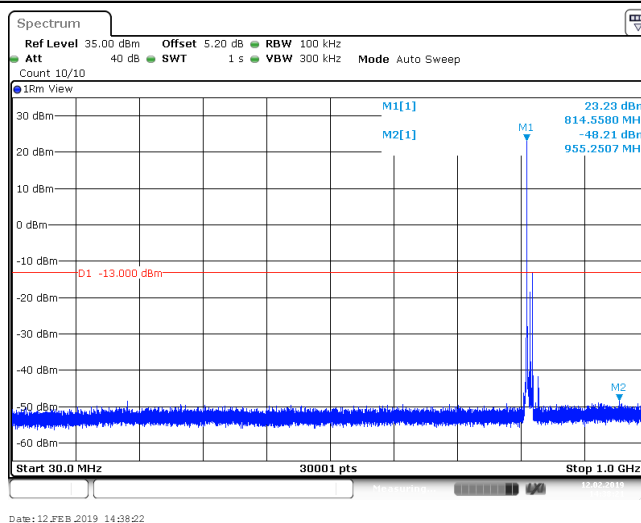
## 6. Spurious Emission at Antenna Terminal

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 =  $k * (\text{Span} / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

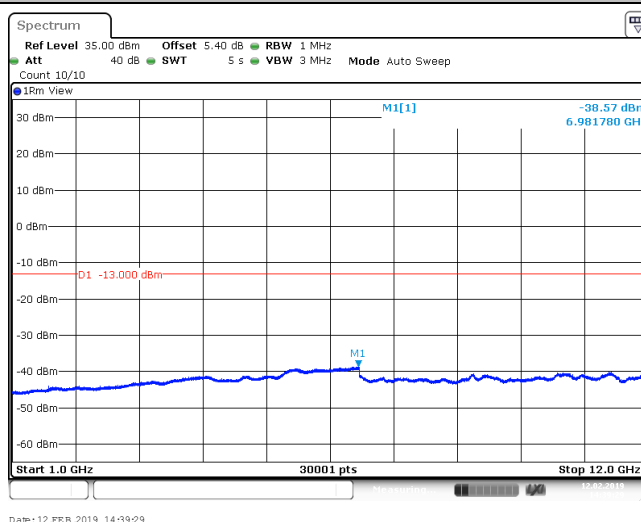
Remark2: only the worst case data displayed in this report.

### 6.1. Test Plots

Band26\_10MHz\_QPSK\_26740\_1RB#0

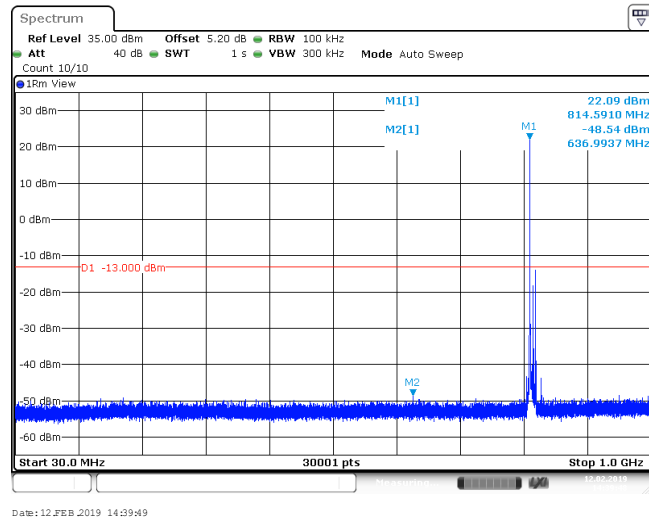


Band26\_10MHz\_QPSK\_26740\_1RB#0

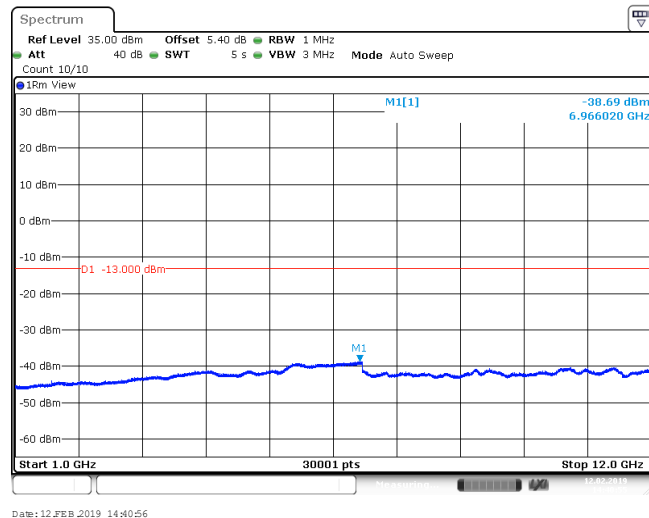


Band26\_10MHz\_16QAM\_26740\_1RB#0





## Band26\_10MHz\_16QAM\_26740\_1RB#0



## 7. Field Strength of Spurious Radiation

### 7.1. Test BAND = LTE Band26

#### 7.1.1. Test Mode = LTE/TM1 10MHz RB1#0

##### 7.1.1.1. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 50.4680         | -71.36      | -13.00           | 58.36       | Vertical     |
| 109.2530        | -64.26      | -13.00           | 51.26       | Vertical     |
| 503.7232        | -64.88      | -13.00           | 51.88       | Vertical     |
| 1629.7259       | -52.90      | -13.00           | 39.90       | Vertical     |
| 3259.4086       | -55.75      | -13.00           | 42.75       | Vertical     |
| 8947.1982       | -51.16      | -13.00           | 38.16       | Vertical     |
| 43.9687         | -63.73      | -13.00           | 50.73       | Horizontal   |
| 237.2024        | -67.46      | -13.00           | 54.46       | Horizontal   |
| 587.9234        | -62.99      | -13.00           | 49.99       | Horizontal   |
| 1629.7259       | -58.05      | -13.00           | 45.05       | Horizontal   |
| 2444.6889       | -56.26      | -13.00           | 43.26       | Horizontal   |
| 7941.1647       | -53.01      | -13.00           | 40.01       | Horizontal   |

##### 7.1.1.2. Spot check worse mode

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 69.8205         | -66.88      | -13.00           | 53.88       | Vertical     |
| 105.3728        | -63.64      | -13.00           | 50.64       | Vertical     |
| 248.9884        | -67.18      | -13.00           | 54.18       | Vertical     |
| 1649.7299       | -51.36      | -13.00           | 38.36       | Vertical     |
| 2474.6949       | -52.03      | -13.00           | 39.03       | Vertical     |
| 3299.2100       | -51.74      | -13.00           | 38.74       | Vertical     |
| 41.6406         | -61.23      | -13.00           | 48.23       | Horizontal   |
| 151.3046        | -67.97      | -13.00           | 54.97       | Horizontal   |
| 237.2994        | -66.42      | -13.00           | 53.42       | Horizontal   |



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|           |        |        |       |            |
|-----------|--------|--------|-------|------------|
| 1649.7299 | -56.57 | -13.00 | 43.57 | Horizontal |
| 2462.2925 | -43.03 | -13.00 | 30.03 | Horizontal |
| 3299.2100 | -54.27 | -13.00 | 41.27 | Horizontal |

## Remark:

- 1) 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.
- 2) We have tested all modulation and all Bandwidth , but only the worst case data presented in this report.





## 8. Frequency Stability

### 8.1. Frequency Vs Voltage

| Voltage |           |            |         |              |               |                  |                |                 |             |         |
|---------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| BAND    | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band26  | 10MHz     | QPSK       | 26740   | 50RB#0       | VL            | NT               | -1.30          | -0.001587       | ±2.5        | PASS    |
| Band26  | 10MHz     | QPSK       | 26740   | 50RB#0       | VN            | NT               | -1.40          | -0.001709       | ±2.5        | PASS    |
| Band26  | 10MHz     | QPSK       | 26740   | 50RB#0       | VH            | NT               | -2.00          | -0.002442       | ±2.5        | PASS    |
| Band26  | 10MHz     | 16QAM      | 26740   | 50RB#0       | VL            | NT               | 0.10           | 0.000122        | ±2.5        | PASS    |
| Band26  | 10MHz     | 16QAM      | 26740   | 50RB#0       | VN            | NT               | -0.60          | -0.000733       | ±2.5        | PASS    |
| Band26  | 10MHz     | 16QAM      | 26740   | 50RB#0       | VH            | NT               | -1.70          | -0.002076       | ±2.5        | PASS    |

### 8.2. Frequency Vs Temperature

| Temperature |           |            |         |              |               |                  |                |                 |             |         |
|-------------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| BAND        | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band26      | 10MHz     | QPSK       | 26740   | 50RB#0       | NV            | -30              | -1.90          | -0.002320       | ±2.5        | PASS    |
| Band26      | 10MHz     | QPSK       | 26740   | 50RB#0       | NV            | -20              | -3.50          | -0.004274       | ±2.5        | PASS    |
| Band26      | 10MHz     | QPSK       | 26740   | 50RB#0       | NV            | 0                | -1.60          | -0.001954       | ±2.5        | PASS    |
| Band26      | 10MHz     | QPSK       | 26740   | 50RB#0       | NV            | 10               | -0.70          | -0.000855       | ±2.5        | PASS    |
| Band26      | 10MHz     | QPSK       | 26740   | 50RB#0       | NV            | 20               | -2.40          | -0.002930       | ±2.5        | PASS    |
| Band26      | 10MHz     | QPSK       | 26740   | 50RB#0       | NV            | 30               | -1.20          | -0.001465       | ±2.5        | PASS    |
| Band26      | 10MHz     | QPSK       | 26740   | 50RB#0       | NV            | 40               | -0.80          | -0.000977       | ±2.5        | PASS    |
| Band26      | 10MHz     | QPSK       | 26740   | 50RB#0       | NV            | 50               | -1.20          | -0.001465       | ±2.5        | PASS    |
| Band26      | 10MHz     | 16QAM      | 26740   | 50RB#0       | NV            | -30              | -2.10          | -0.002564       | ±2.5        | PASS    |
| Band26      | 10MHz     | 16QAM      | 26740   | 50RB#0       | NV            | -20              | -1.60          | -0.001954       | ±2.5        | PASS    |
| Band26      | 10MHz     | 16QAM      | 26740   | 50RB#0       | NV            | 0                | -2.50          | -0.003053       | ±2.5        | PASS    |
| Band26      | 10MHz     | 16QAM      | 26740   | 50RB#0       | NV            | 10               | -1.50          | -0.001832       | ±2.5        | PASS    |
| Band26      | 10MHz     | 16QAM      | 26740   | 50RB#0       | NV            | 20               | -1.90          | -0.002320       | ±2.5        | PASS    |
| Band26      | 10MHz     | 16QAM      | 26740   | 50RB#0       | NV            | 30               | -0.30          | -0.000366       | ±2.5        | PASS    |
| Band26      | 10MHz     | 16QAM      | 26740   | 50RB#0       | NV            | 40               | -1.30          | -0.001587       | ±2.5        | PASS    |
| Band26      | 10MHz     | 16QAM      | 26740   | 50RB#0       | NV            | 50               | -1.10          | -0.001343       | ±2.5        | PASS    |

The End



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