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# Appendix B.2

## WCDMA Band V



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

| Band  | Channel | Power(dBm) | ERP(dBm) | Limit(dBm) | Verdict |
|-------|---------|------------|----------|------------|---------|
| Band5 | 4132    | 23.78      | 20.33    | 38.45      | PASS    |
| Band5 | 4182    | 23.86      | 20.41    | 38.45      | PASS    |
| Band5 | 4233    | 23.49      | 20.04    | 38.45      | PASS    |



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## Peak-to-Average Ratio

### Test Result

| Band  | Channel | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
|-------|---------|---------------------------|-----------|---------|
| Band5 | 4132    | 2.88                      | 13        | PASS    |
| Band5 | 4182    | 3.28                      | 13        | PASS    |
| Band5 | 4233    | 3.28                      | 13        | PASS    |



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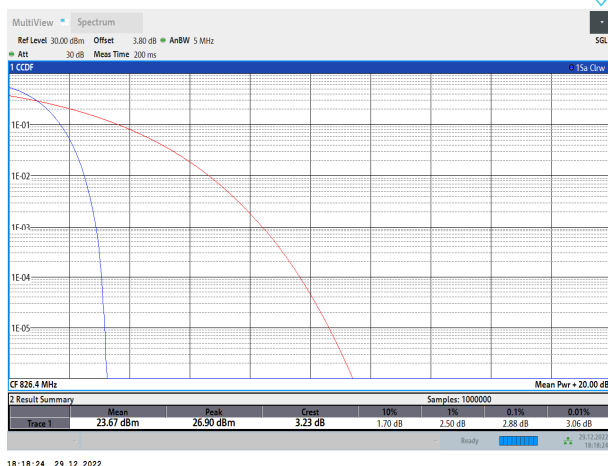
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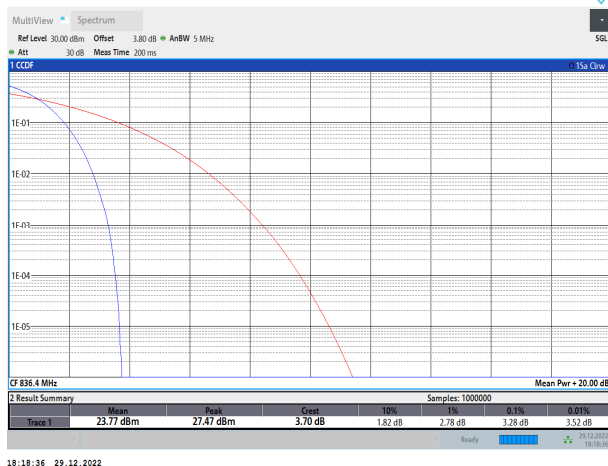
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### Test Graphs

Band5-4132



Band5-4182



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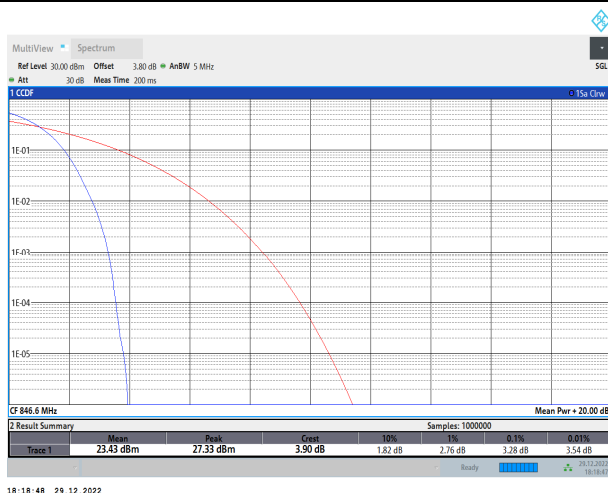
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### Band5-4233



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## Modulation Characteristics

### Test Result

| Band  | Channel | Result | Verdict |
|-------|---------|--------|---------|
| Band5 | 4182    | PASS   | PASS    |



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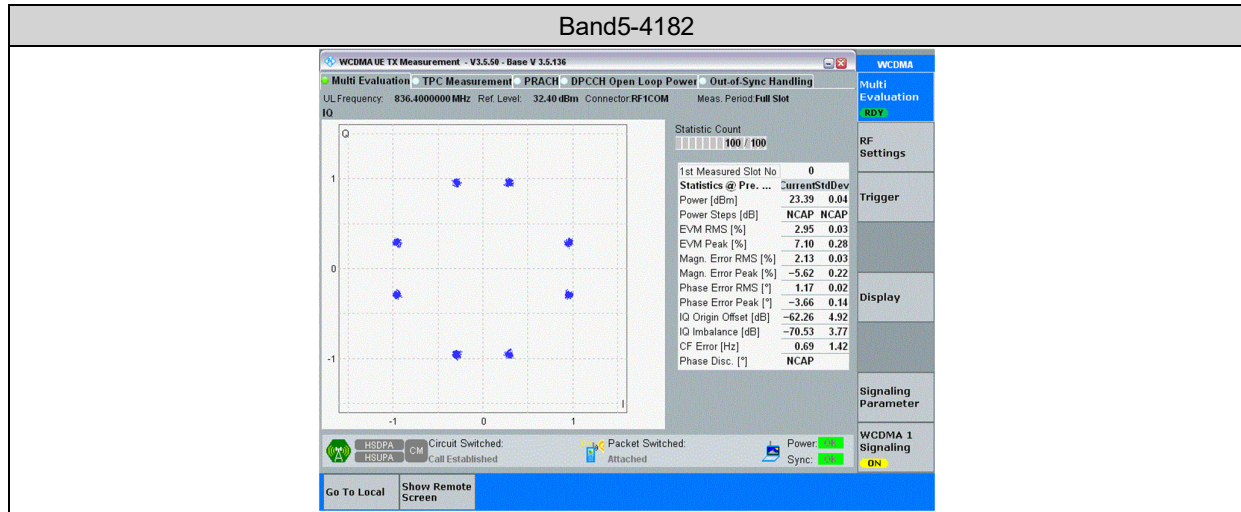


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## Test Graphs



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

| Band  | Channel | Occupied Bandwidth<br>(MHz) | 26dB Bandwidth<br>(MHz) | Limit(MHz) | Verdict |
|-------|---------|-----------------------------|-------------------------|------------|---------|
| Band5 | 4132    | 4.134                       | 4.71                    | ---        | PASS    |
| Band5 | 4182    | 4.141                       | 4.72                    | ---        | PASS    |
| Band5 | 4233    | 4.149                       | 4.73                    | ---        | PASS    |



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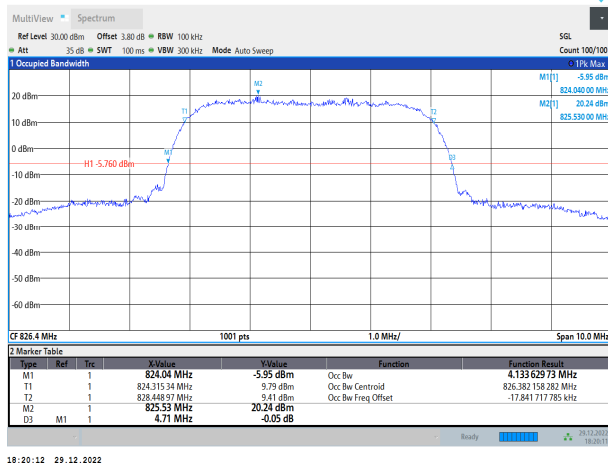
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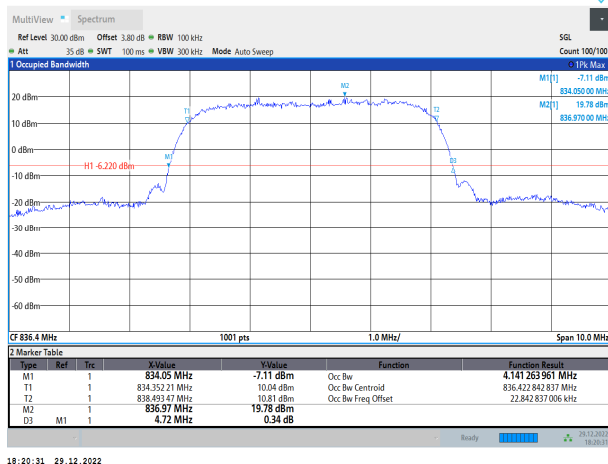
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### Test Graphs

#### Band5-4132



#### Band5-4182



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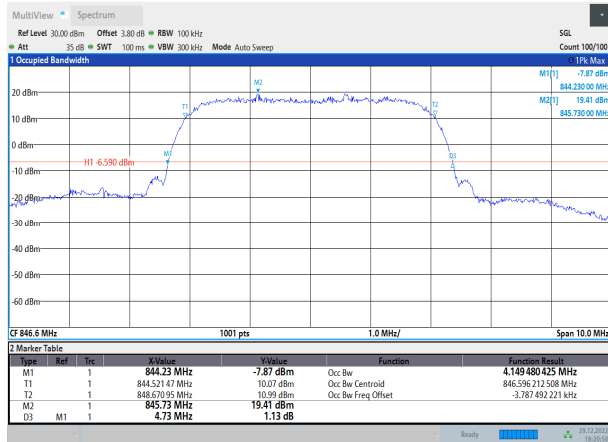
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### Band5-4233



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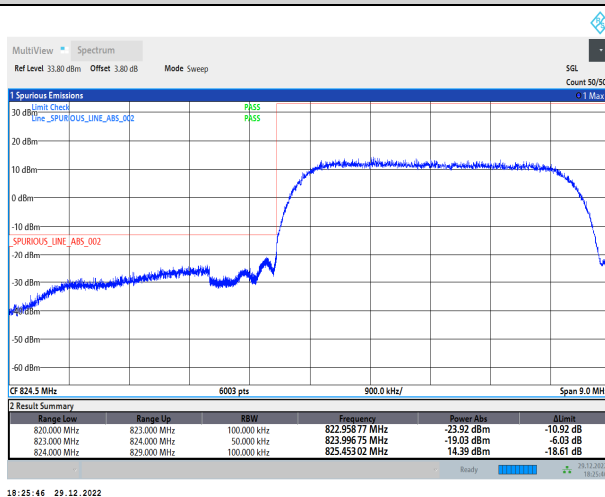
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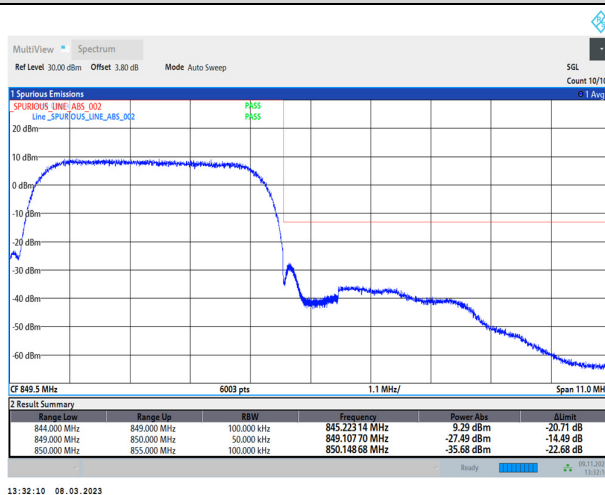
### Band Edge

### Test Graphs

Band5-4132



Band5-4182



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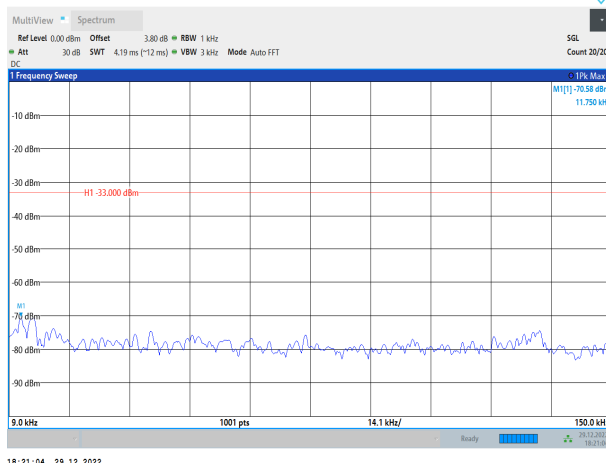
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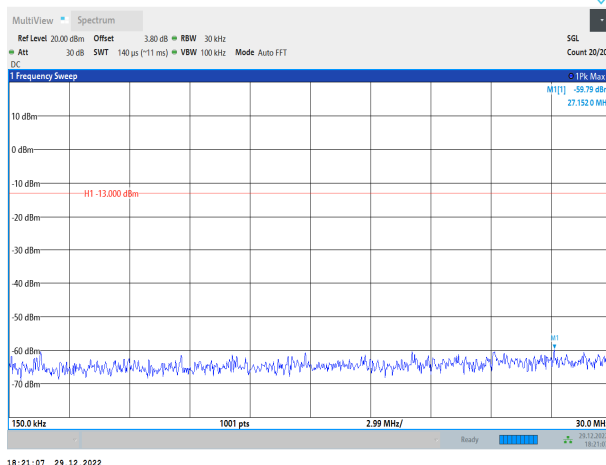
### Conducted Spurious Emission

#### Test Graphs

Band5-4132-0.009~0.15MHz



Band5-4132-0.15~30MHz



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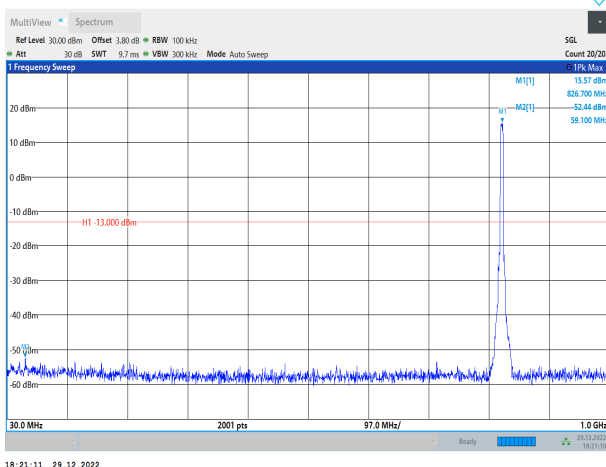
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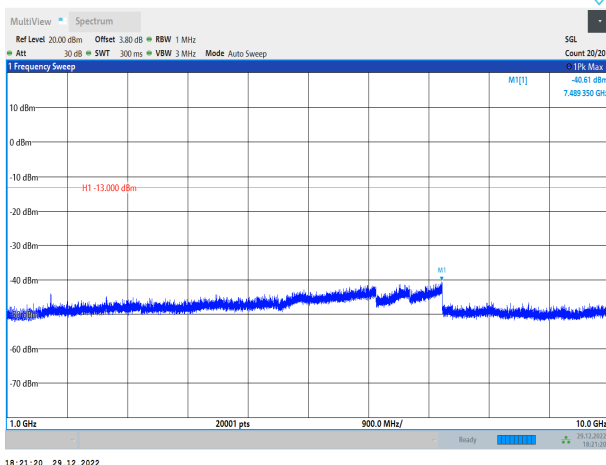
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### Band5-4132-30~1000MHz



### Band5-4132-1000~10000MHz



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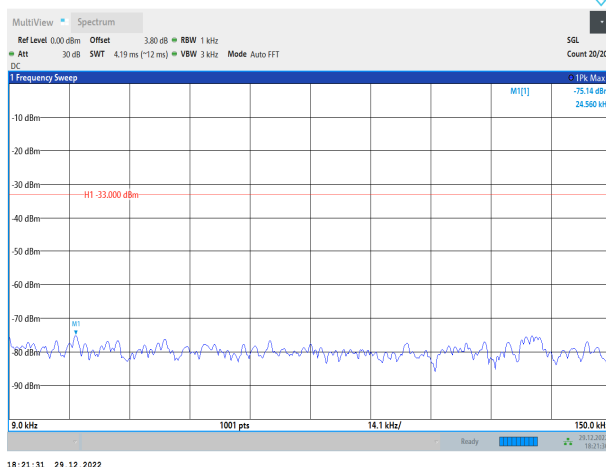


Report No.: SEWM2212000309RG01

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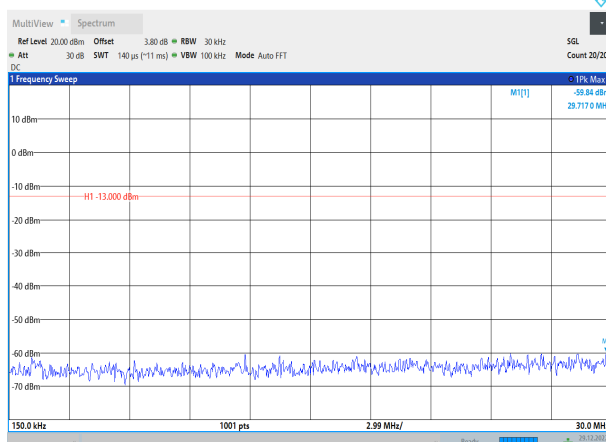
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Band5-4182-0.009~0.15MHz



18:21:31 29.12.2022

Band5-4182-0.15~30MHz



18:21:34 29.12.2022



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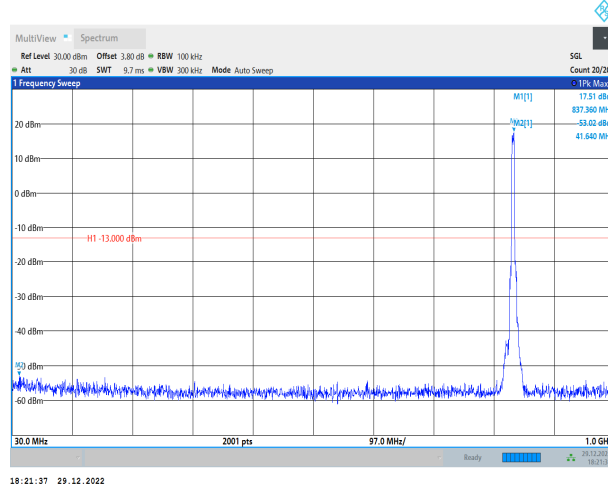


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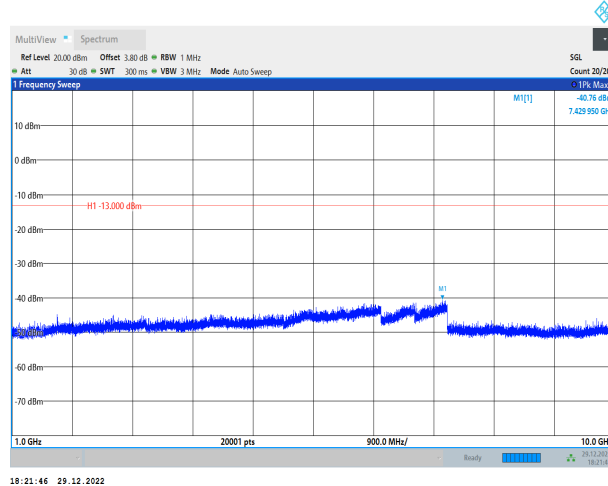
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Band5-4182-30~1000MHz



Band5-4182-1000~10000MHz



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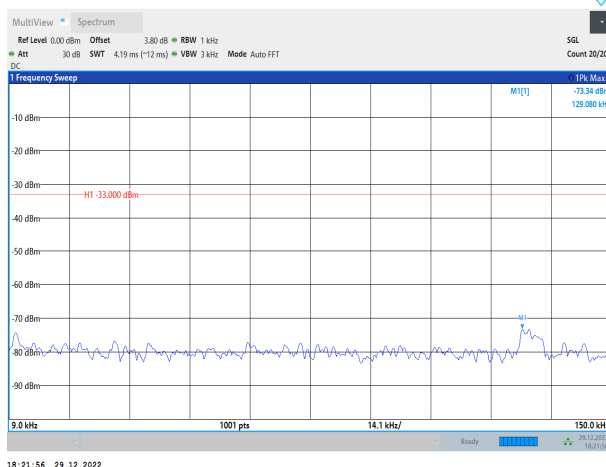
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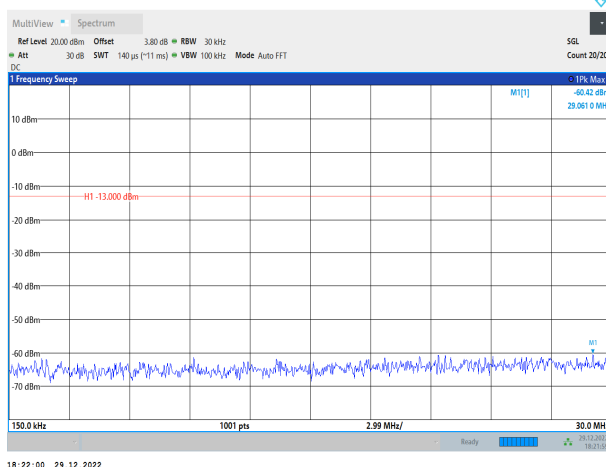
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### Band5-4233-0.009~0.15MHz



### Band5-4233-0.15~30MHz



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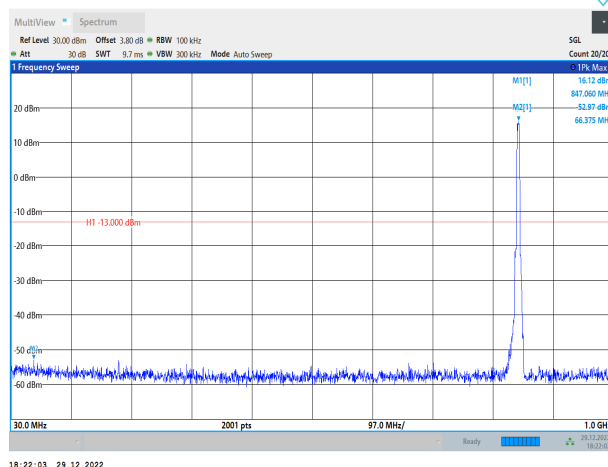
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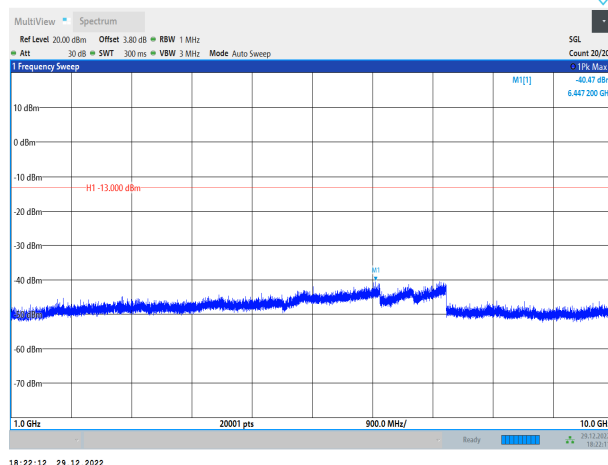
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### Band5-4233-30~1000MHz



### Band5-4233-1000~10000MHz



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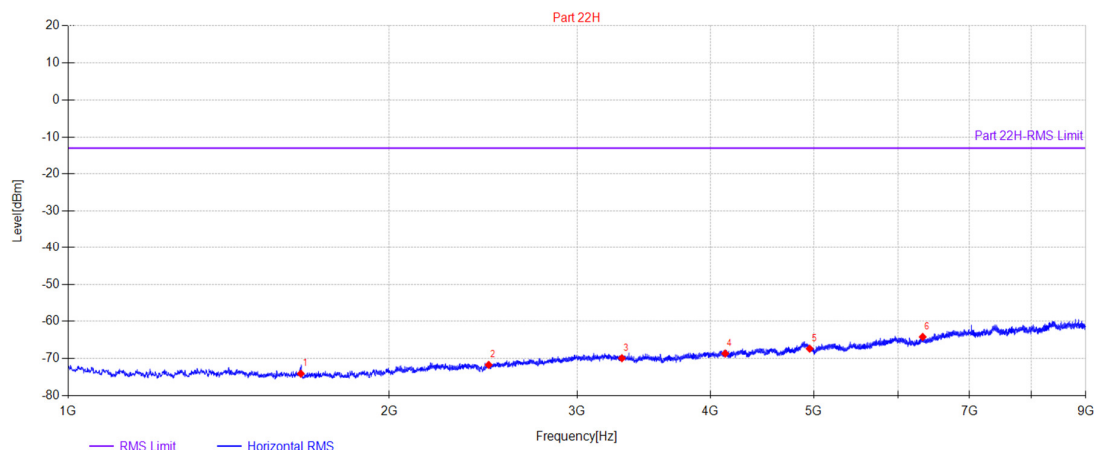
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## Field Strength of Spurious Radiation

Test Band = WCDMA Band V\_ TM1

Test Channel = Low



| Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1         | 1652.8000       | 44.03          | -48.22      | 25.37    | -74.07      | -13.00      | 61.07       | 245         | 311       | Horizontal |
| 2         | 2479.2000       | 43.16          | -47.31      | 27.70    | -71.70      | -13.00      | 58.70       | 169         | 80        | Horizontal |
| 3         | 3305.6000       | 42.48          | -46.67      | 29.55    | -69.90      | -13.00      | 56.90       | 185         | 161       | Horizontal |
| 4         | 4132.0000       | 41.53          | -45.92      | 31.00    | -68.65      | -13.00      | 55.65       | 142         | 243       | Horizontal |
| 5         | 4958.4000       | 40.87          | -45.72      | 32.76    | -67.34      | -13.00      | 54.34       | 172         | 189       | Horizontal |
| 6         | 6328.5714       | 41.27          | -44.65      | 34.47    | -64.17      | -13.00      | 51.17       | 133         | 189       | Horizontal |



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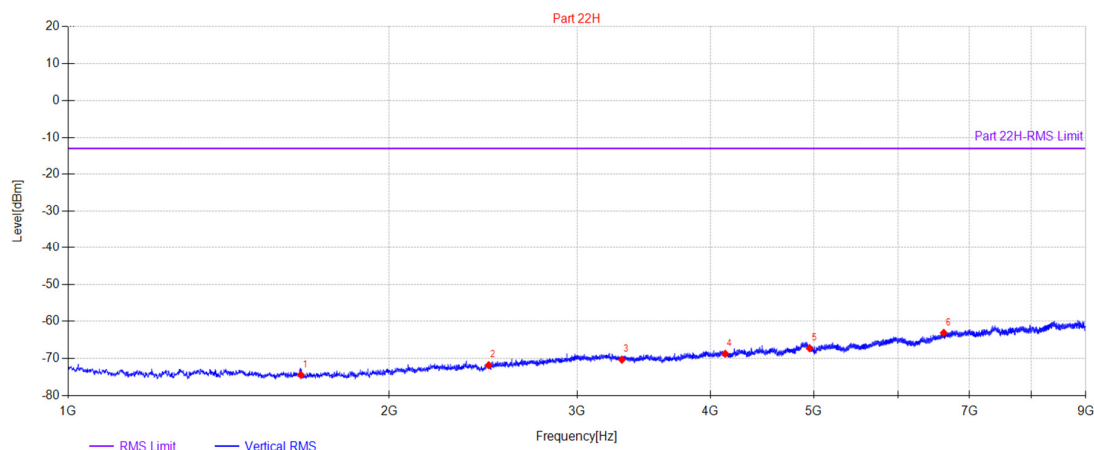
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Report No.: SEWM2212000309RG01

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### Data List

| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| 1   | 1652.8000       | 43.70          | -48.22      | 25.37    | -74.40      | -13.00      | 61.40       | 245         | 91        | Vertical |
| 2   | 2479.2000       | 43.07          | -47.31      | 27.70    | -71.79      | -13.00      | 58.79       | 165         | 50        | Vertical |
| 3   | 3305.6000       | 42.07          | -46.67      | 29.55    | -70.31      | -13.00      | 57.31       | 185         | 132       | Vertical |
| 4   | 4132.0000       | 41.48          | -45.92      | 31.00    | -68.70      | -13.00      | 55.70       | 195         | 158       | Vertical |
| 5   | 4958.4000       | 40.97          | -45.72      | 32.76    | -67.24      | -13.00      | 54.24       | 142         | 266       | Vertical |
| 6   | 6622.8571       | 41.10          | -44.39      | 35.49    | -63.07      | -13.00      | 50.07       | 173         | 292       | Vertical |



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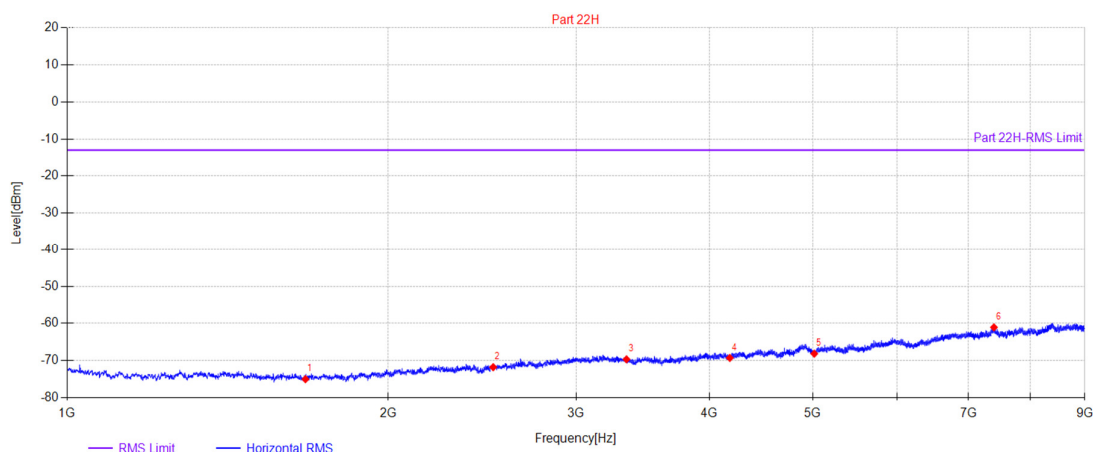
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Test Band = WCDMA Band V\_ TM1  
Test Channel = Mid



### Data List

| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| 1   | 1672.8000       | 43.05          | -48.19      | 25.38    | -75.02      | -13.00      | 62.02       | 244         | 41        | Horizontal |
| 2   | 2509.2000       | 42.90          | -47.24      | 27.80    | -71.79      | -13.00      | 58.79       | 165         | 133       | Horizontal |
| 3   | 3345.6000       | 42.71          | -46.62      | 29.50    | -69.67      | -13.00      | 56.67       | 129         | 4         | Horizontal |
| 4   | 4182.0000       | 40.85          | -45.95      | 31.07    | -69.29      | -13.00      | 56.29       | 148         | 346       | Horizontal |
| 5   | 5018.4000       | 39.95          | -45.73      | 32.89    | -68.15      | -13.00      | 55.15       | 175         | 41        | Horizontal |
| 6   | 7397.1429       | 40.97          | -43.27      | 36.49    | -61.06      | -13.00      | 48.06       | 135         | 308       | Horizontal |



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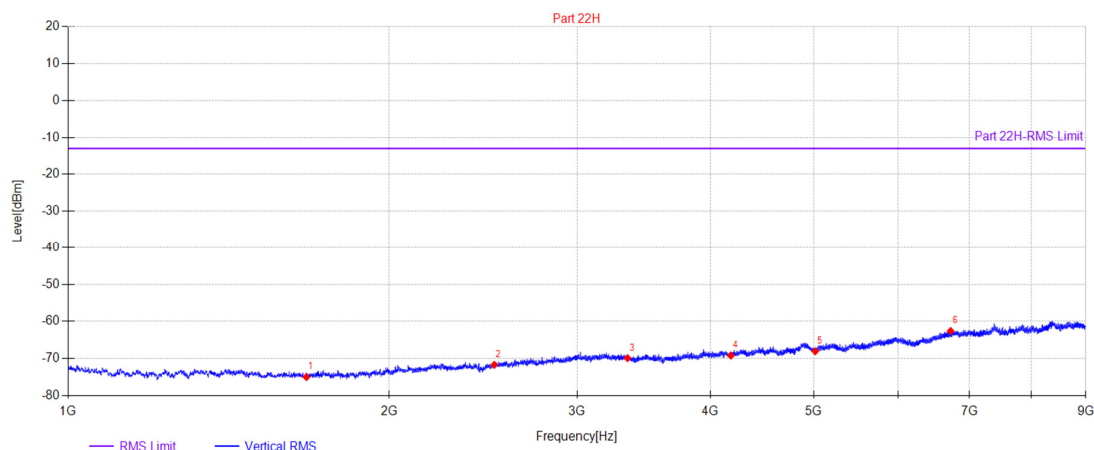
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### Data List

| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF [dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-----------------|----------------|-------------|-----------|-------------|-------------|-------------|-------------|-----------|----------|
| 1   | 1672.8000       | 43.10          | -48.19      | 25.38     | -74.97      | -13.00      | 61.97       | 148         | 64        | Vertical |
| 2   | 2509.2000       | 43.00          | -47.24      | 27.80     | -71.69      | -13.00      | 58.69       | 159         | 251       | Vertical |
| 3   | 3345.6000       | 42.49          | -46.62      | 29.50     | -69.89      | -13.00      | 56.89       | 165         | 35        | Vertical |
| 4   | 4182.0000       | 40.97          | -45.95      | 31.07     | -69.17      | -13.00      | 56.17       | 174         | 136       | Vertical |
| 5   | 5018.4000       | 40.07          | -45.73      | 32.89     | -68.03      | -13.00      | 55.03       | 125         | 2         | Vertical |
| 6   | 6722.2857       | 41.07          | -44.07      | 35.68     | -62.58      | -13.00      | 49.58       | 146         | 35        | Vertical |



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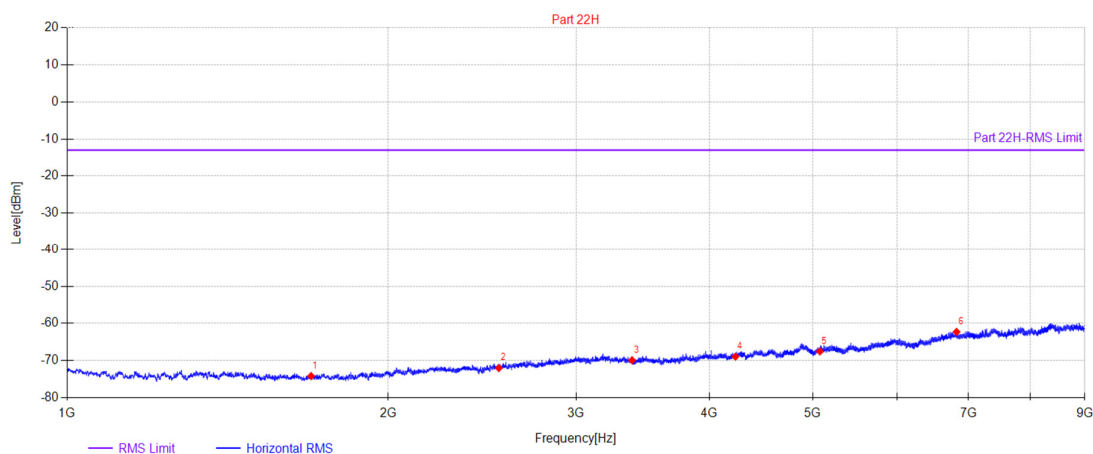
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Test Band = WCDMA Band V\_ TM1

Test Channel = High



## Data List

| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| 1   | 1693.2000       | 43.86          | -48.17      | 25.39    | -74.18      | -13.00      | 61.18       | 274         | 228       | Horizontal |
| 2   | 2539.8000       | 42.47          | -47.13      | 27.90    | -72.02      | -13.00      | 59.02       | 154         | 255       | Horizontal |
| 3   | 3386.4000       | 42.45          | -46.56      | 29.45    | -69.92      | -13.00      | 56.92       | 198         | 336       | Horizontal |
| 4   | 4233.0000       | 41.05          | -45.90      | 31.17    | -68.94      | -13.00      | 55.94       | 126         | 354       | Horizontal |
| 5   | 5079.6000       | 40.26          | -45.47      | 32.92    | -67.54      | -13.00      | 54.54       | 251         | 94        | Horizontal |
| 6   | 6822.8571       | 41.24          | -44.13      | 35.87    | -62.28      | -13.00      | 49.28       | 142         | 54        | Horizontal |



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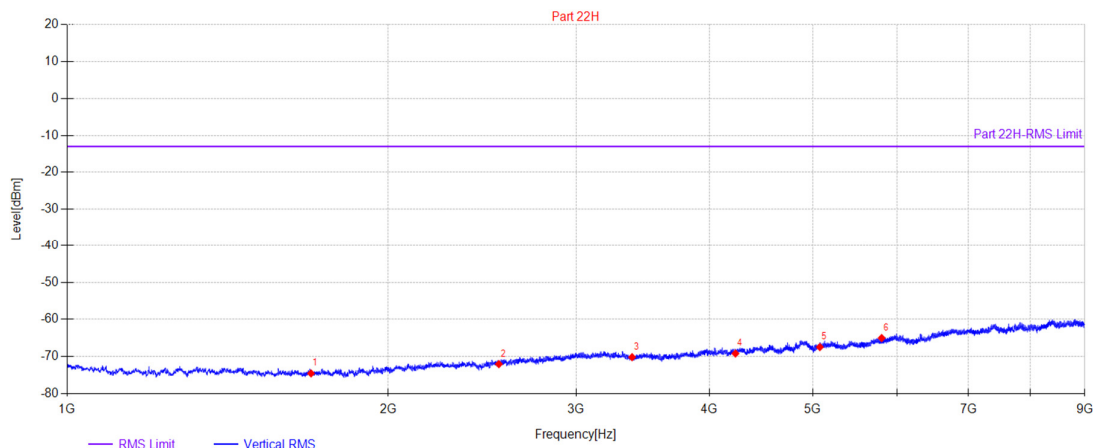
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### Data List

| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| 1   | 1693.2000       | 43.50          | -48.17      | 25.39    | -74.54      | -13.00      | 61.54       | 265         | 209       | Vertical |
| 2   | 2539.8000       | 42.46          | -47.13      | 27.90    | -72.03      | -13.00      | 59.03       | 142         | 89        | Vertical |
| 3   | 3386.4000       | 42.20          | -46.56      | 29.45    | -70.17      | -13.00      | 57.17       | 135         | 0         | Vertical |
| 4   | 4233.0000       | 40.81          | -45.90      | 31.17    | -69.18      | -13.00      | 56.18       | 188         | 12        | Vertical |
| 5   | 5079.6000       | 40.35          | -45.47      | 32.92    | -67.45      | -13.00      | 54.45       | 192         | 22        | Vertical |
| 6   | 5804.5714       | 41.16          | -44.67      | 33.76    | -65.02      | -13.00      | 52.02       | 174         | 305       | Vertical |

### Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamp (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南面 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn  
t (86-512) 62992980 sgs.china@sgs.com

## Frequency Stability

### Test Result

| Voltage |         |               |                  |                |                 |             |         |
|---------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band    | Channel | Voltage (Vdc) | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band5   | 4182    | VL            | NT               | -0.43          | -0.000514       | ±2.5        | PASS    |
| Band5   | 4182    | VN            | NT               | -0.55          | -0.000658       | ±2.5        | PASS    |
| Band5   | 4182    | VH            | NT               | -0.25          | -0.000299       | ±2.5        | PASS    |

| Temperature |         |               |                  |                |                 |             |         |
|-------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band        | Channel | Voltage (Vdc) | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band5       | 4182    | NV            | -30              | -0.16          | -0.000191       | ±2.5        | PASS    |
| Band5       | 4182    | NV            | -20              | -0.45          | -0.000538       | ±2.5        | PASS    |
| Band5       | 4182    | NV            | -10              | -0.39          | -0.000466       | ±2.5        | PASS    |
| Band5       | 4182    | NV            | 0                | -0.03          | -0.000036       | ±2.5        | PASS    |
| Band5       | 4182    | NV            | 10               | -0.85          | -0.001016       | ±2.5        | PASS    |
| Band5       | 4182    | NV            | 20               | -0.53          | -0.000634       | ±2.5        | PASS    |
| Band5       | 4182    | NV            | 30               | -0.63          | -0.000753       | ±2.5        | PASS    |
| Band5       | 4182    | NV            | 40               | -0.23          | -0.000275       | ±2.5        | PASS    |
| Band5       | 4182    | NV            | 50               | 0.00           | 0.000000        | ±2.5        | PASS    |

---End of Attachment---



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中国·苏州·中国 (江苏) 自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com