



Report No.: SEWM2304000111RG01

Rev.: 01

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# Appendix B.1

## WCDMA Band II&IV&V



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

| Band    | Channel | Power(dBm) | EIRP(dBm) | Limit(dBm) | Verdict |
|---------|---------|------------|-----------|------------|---------|
| Band II | 9262    | 22.53      | 21.33     | 33         | PASS    |
| Band II | 9400    | 22.48      | 21.28     | 33         | PASS    |
| Band II | 9538    | 22.54      | 21.34     | 33         | PASS    |
| Band IV | 1312    | 22.84      | 19.44     | 30         | PASS    |
| Band IV | 1413    | 22.86      | 19.46     | 30         | PASS    |
| Band IV | 1513    | 22.84      | 19.44     | 30         | PASS    |
| Band    | Channel | Power(dBm) | ERP(dBm)  | Limit(dBm) | Verdict |
| Band V  | 4132    | 22.96      | 16.91     | 38.5       | PASS    |
| Band V  | 4182    | 22.86      | 16.81     | 38.5       | PASS    |
| Band V  | 4233    | 22.82      | 16.77     | 38.5       | PASS    |



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## Peak-to-Average Ratio

### Test Result

| Band    | Channel | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
|---------|---------|---------------------------|-----------|---------|
| Band II | 9262    | 3.00                      | 13        | PASS    |
| Band II | 9400    | 3.02                      | 13        | PASS    |
| Band II | 9538    | 2.92                      | 13        | PASS    |
| Band IV | 1312    | 2.82                      | 13        | PASS    |
| Band IV | 1413    | 2.88                      | 13        | PASS    |
| Band IV | 1513    | 2.80                      | 13        | PASS    |
| Band V  | 4132    | 3.02                      | 13        | PASS    |
| Band V  | 4182    | 3.06                      | 13        | PASS    |
| Band V  | 4233    | 2.92                      | 13        | PASS    |



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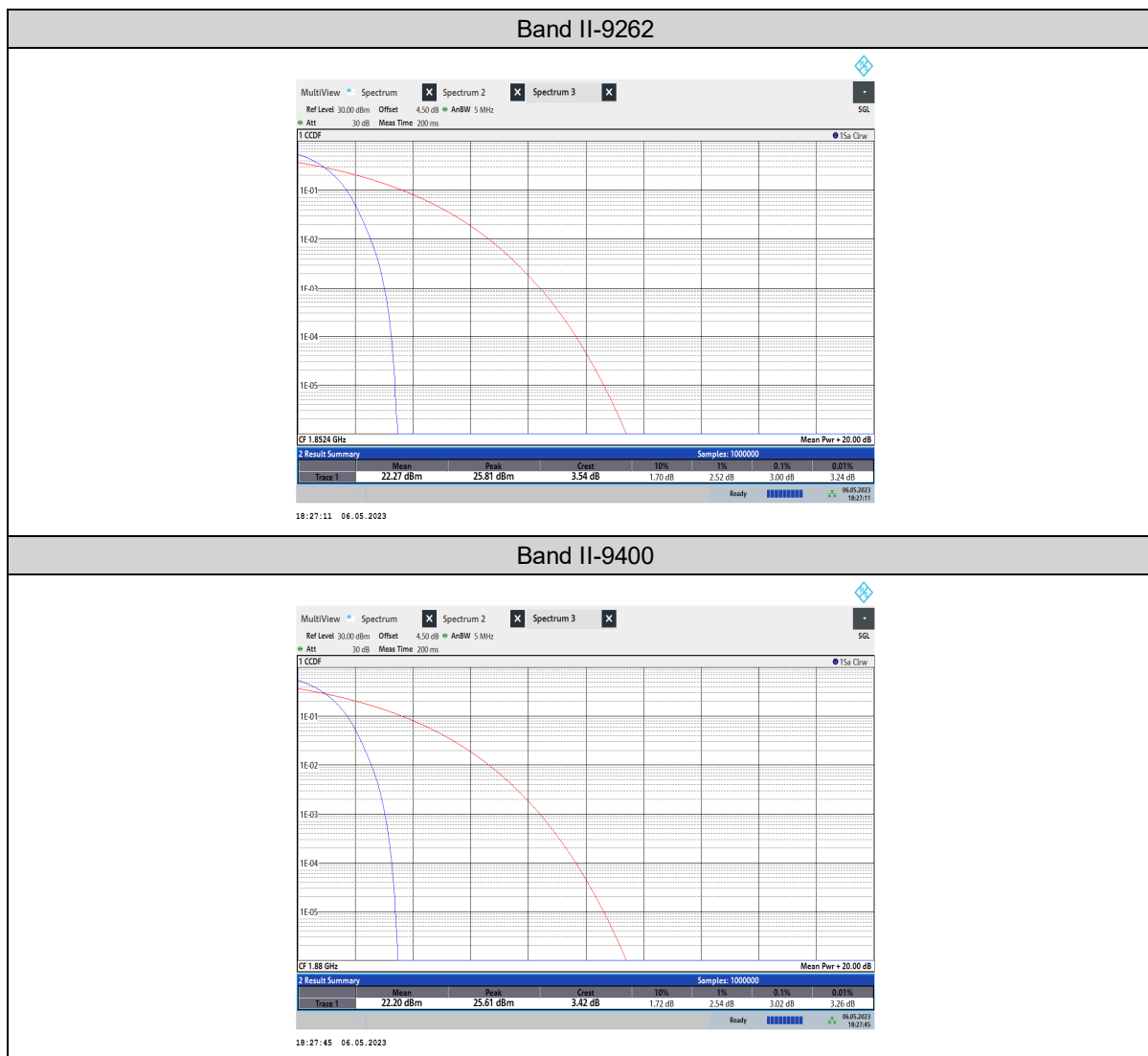
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### Test Graphs



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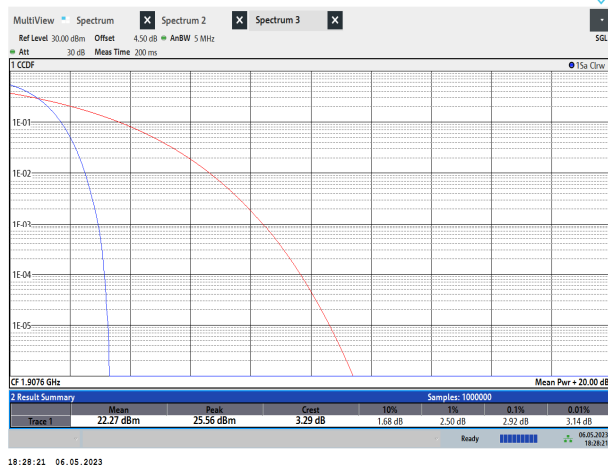
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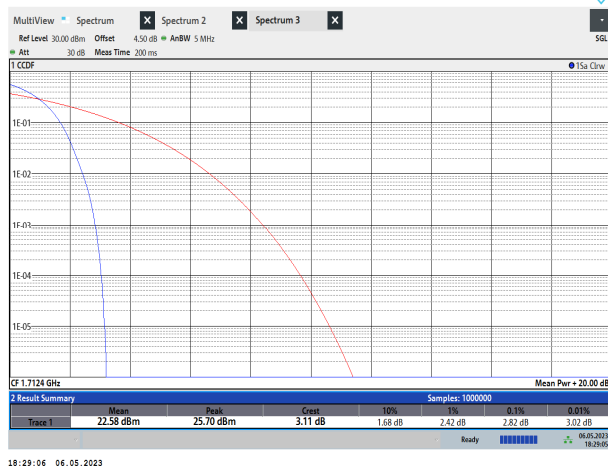
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Band II-9538



Band IV-1312



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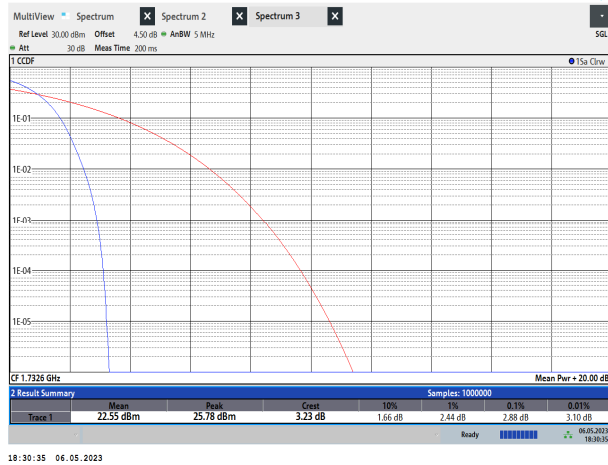


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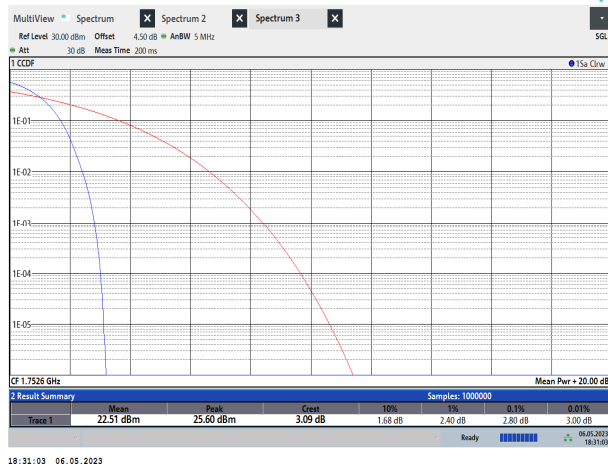
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### Band IV-1413



### Band IV-1513



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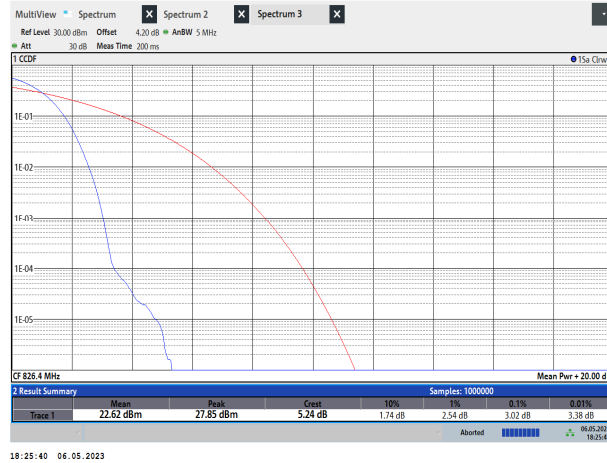
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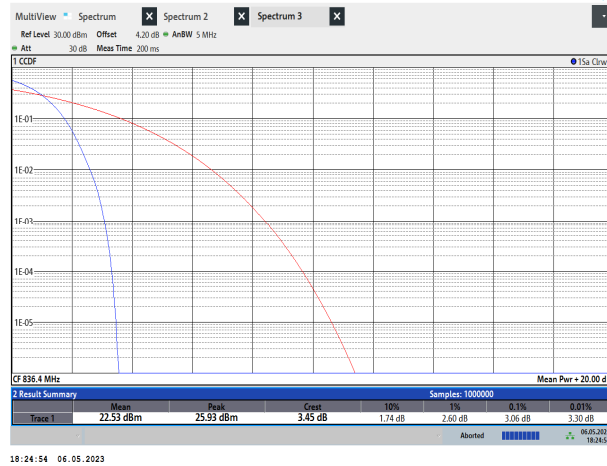
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Band V-4132



Band V-4182



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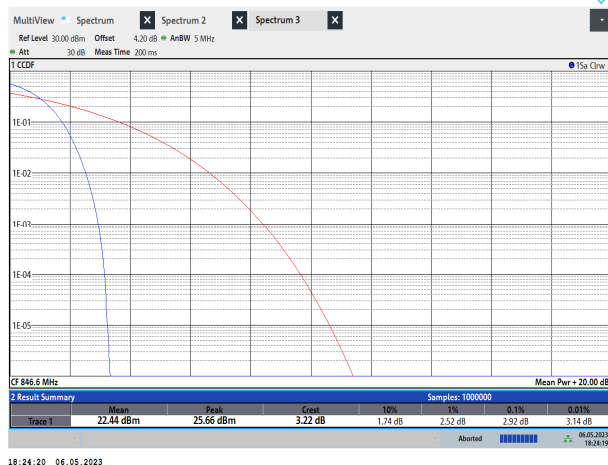
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### Band V-4233



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Modulation Characteristics

Test Result

| Band    | Channel | Result | Verdict |
|---------|---------|--------|---------|
| Band II | 9400    | PASS   | PASS    |
| Band IV | 1413    | PASS   | PASS    |
| Band V  | 4182    | PASS   | PASS    |



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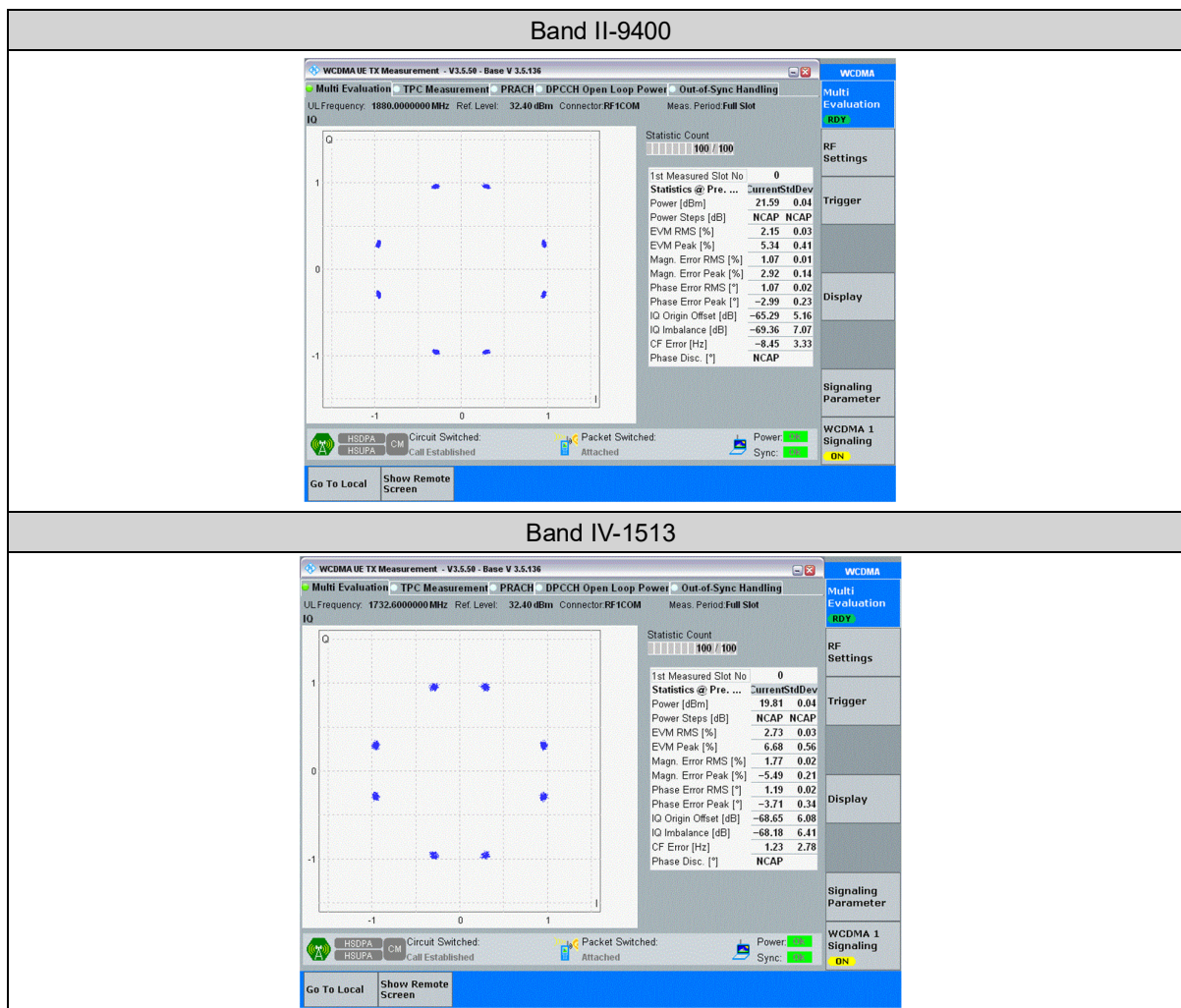
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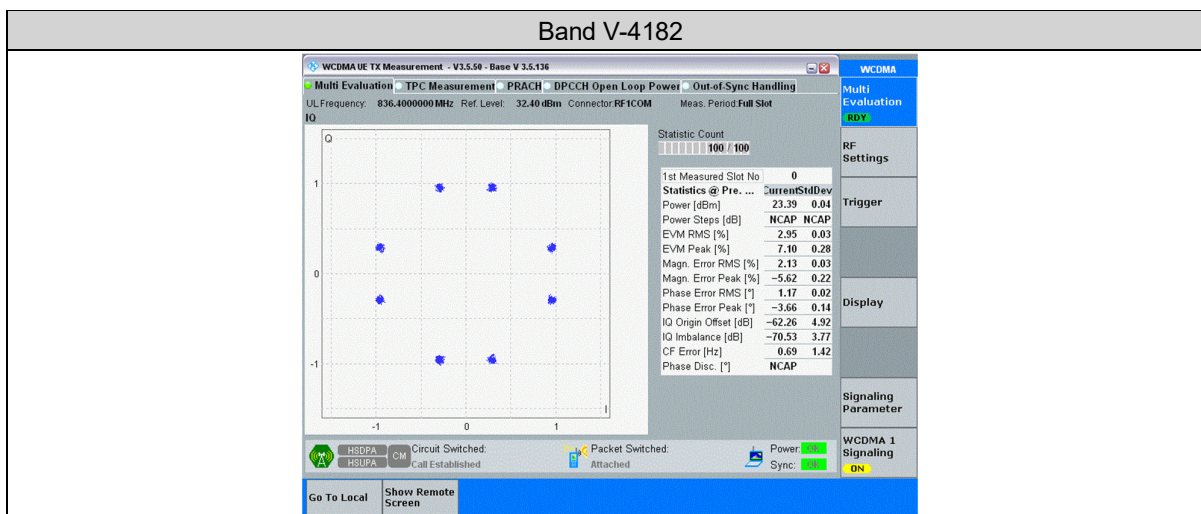
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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

| Band    | Channel | Occupied Bandwidth<br>(MHz) | 26dB Bandwidth<br>(MHz) | Limit(kHz) | Verdict |
|---------|---------|-----------------------------|-------------------------|------------|---------|
| Band II | 9262    | 4.171                       | 4.72                    | ---        | PASS    |
| Band II | 9400    | 4.171                       | 4.74                    | ---        | PASS    |
| Band II | 9538    | 4.171                       | 4.73                    | ---        | PASS    |
| Band IV | 1312    | 4.145                       | 4.72                    | ---        | PASS    |
| Band IV | 1413    | 4.150                       | 4.72                    | ---        | PASS    |
| Band IV | 1513    | 4.152                       | 4.73                    | ---        | PASS    |
| Band V  | 4132    | 4.148                       | 4.70                    | ---        | PASS    |
| Band V  | 4182    | 4.143                       | 4.70                    | ---        | PASS    |
| Band V  | 4233    | 4.147                       | 4.71                    | ---        | PASS    |

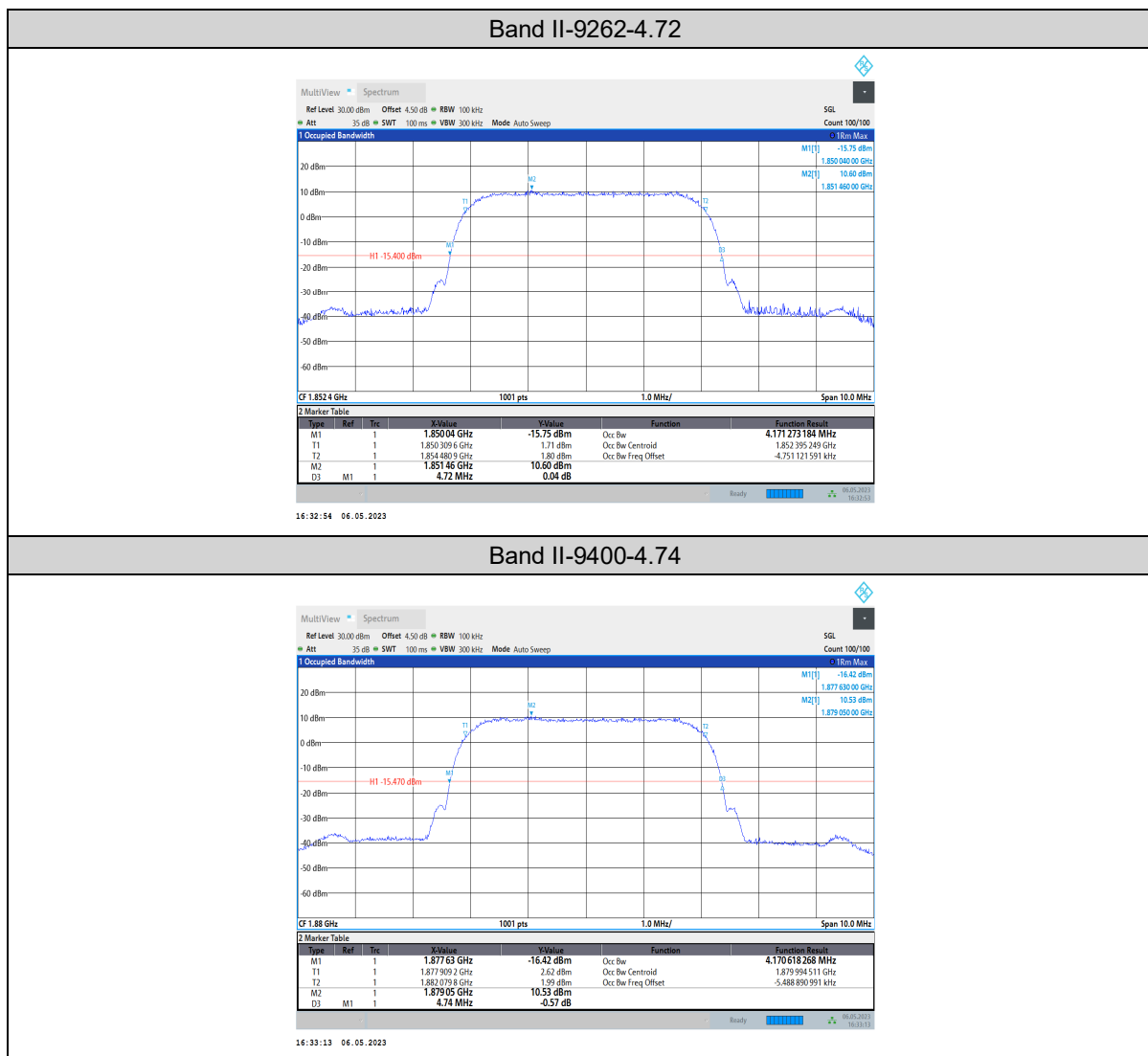


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### Test Graphs

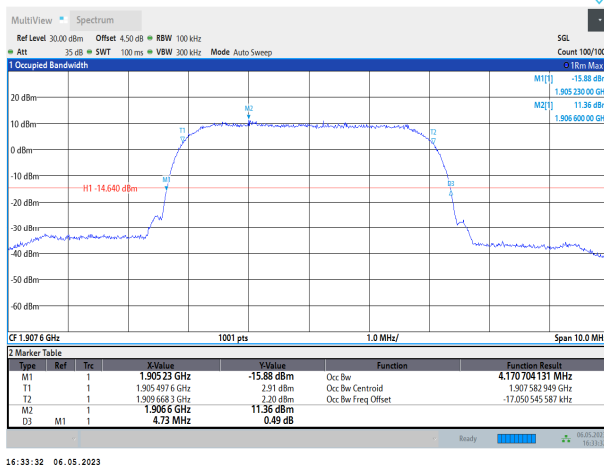


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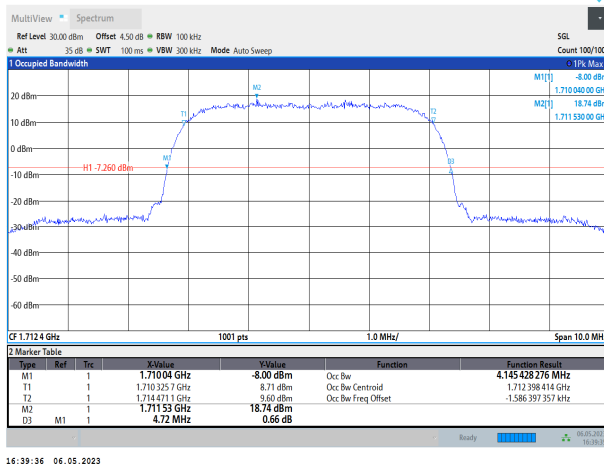
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### Band II-9538-4.73



### Band IV-1312-4.72



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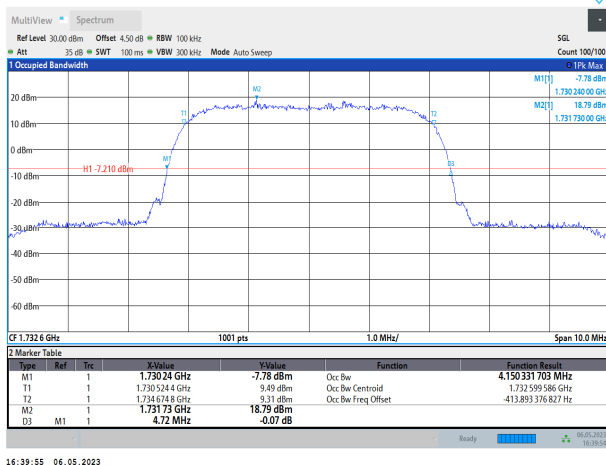
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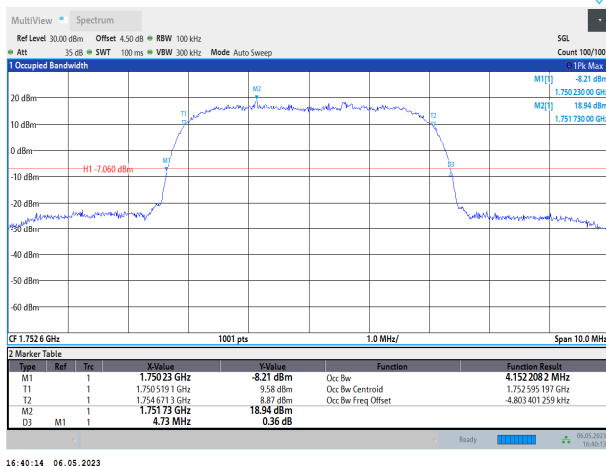
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### Band IV-1413-4.72



### Band IV-1513-4.73



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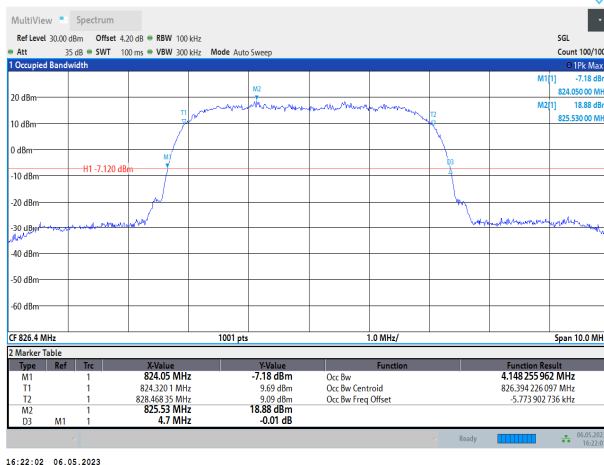
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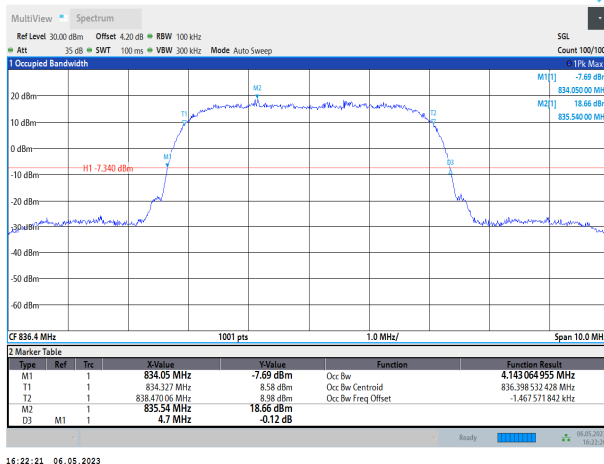
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### Band V-4132-4.70



### Band V-4182-4.70



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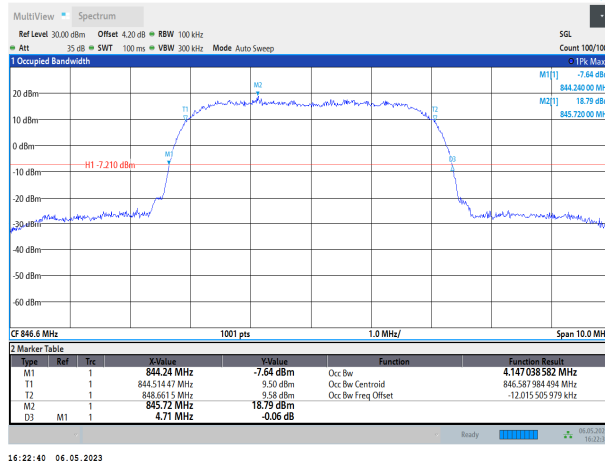


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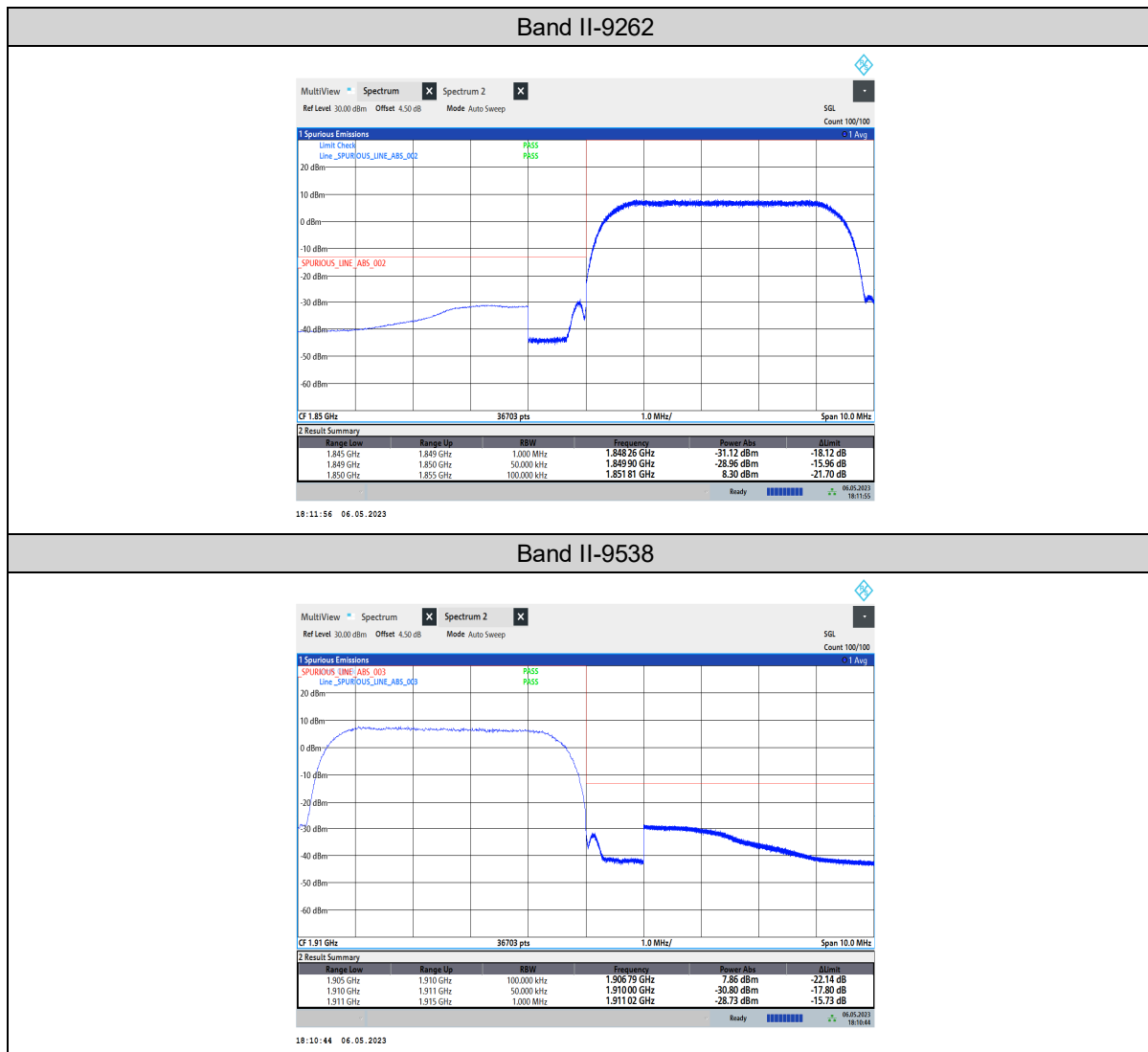
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## Band Edge

## Test Graphs



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### Band IV-1312



### Band IV-1513



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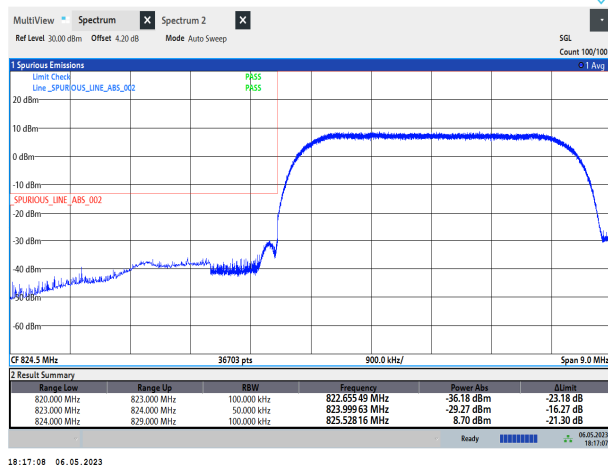
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## Conducted Spurious Emission

### Test Graphs



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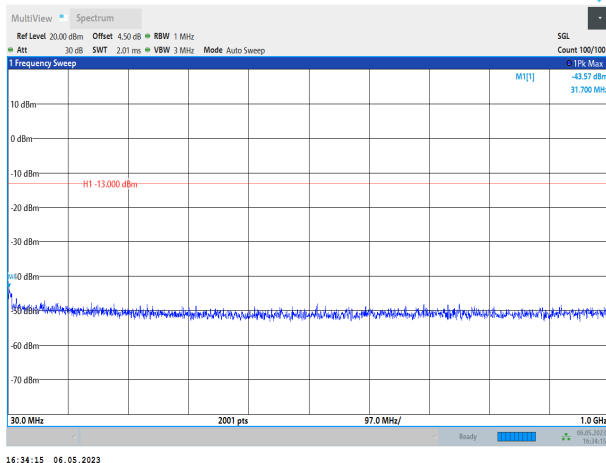
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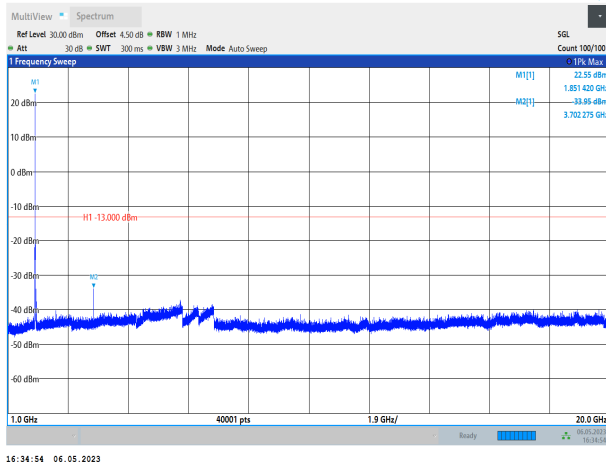
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### Band II-9262-30~1000MHz



### Band II-9262-1000~20000MHz



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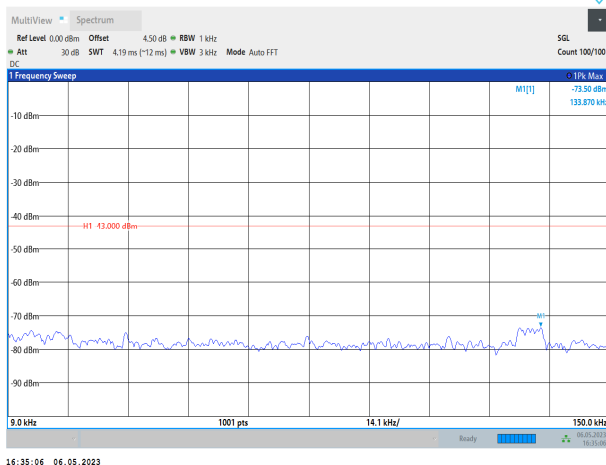
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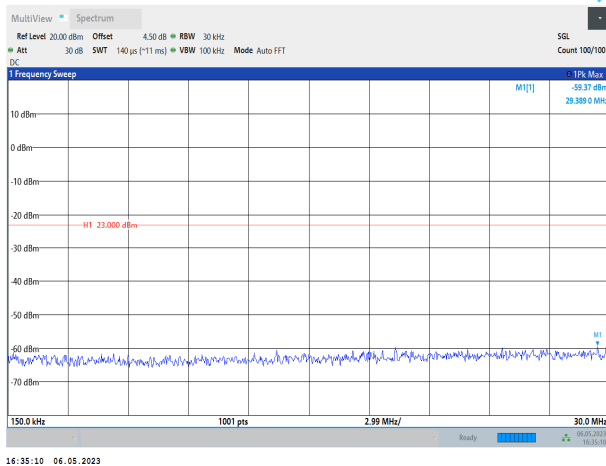
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### Band II-9400-0.009~0.15MHz



### Band II-9400-0.15~30MHz



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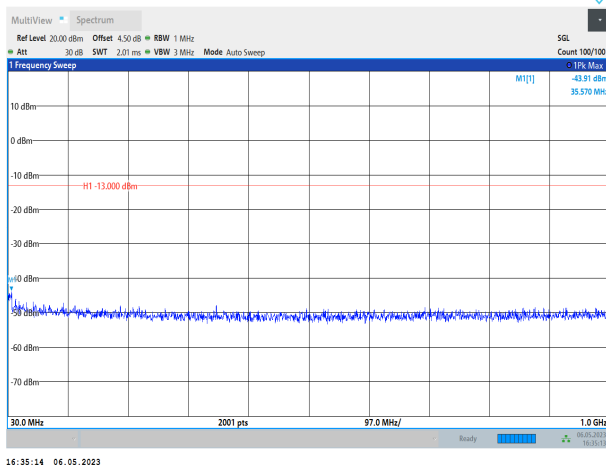
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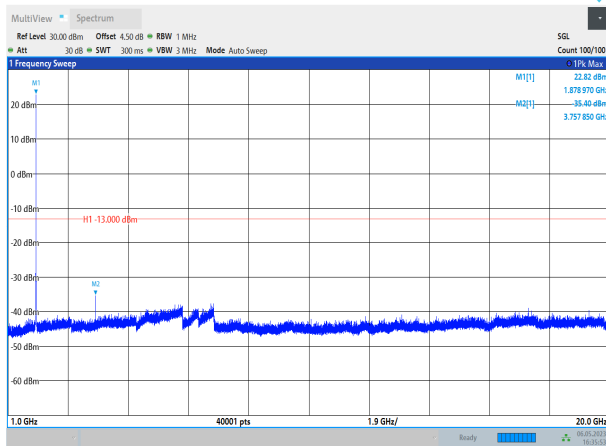
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### Band II-9400-1000~20000MHz



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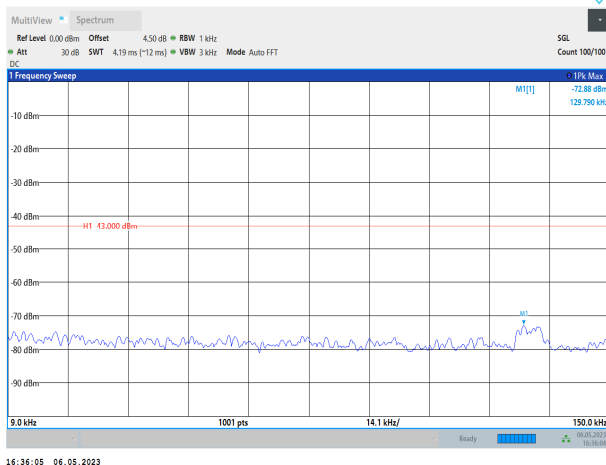
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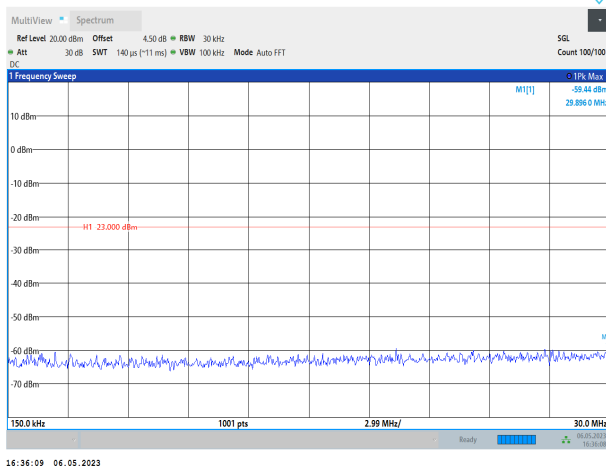
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### Band II-9538-0.009~0.15MHz



### Band II-9538-0.15~30MHz



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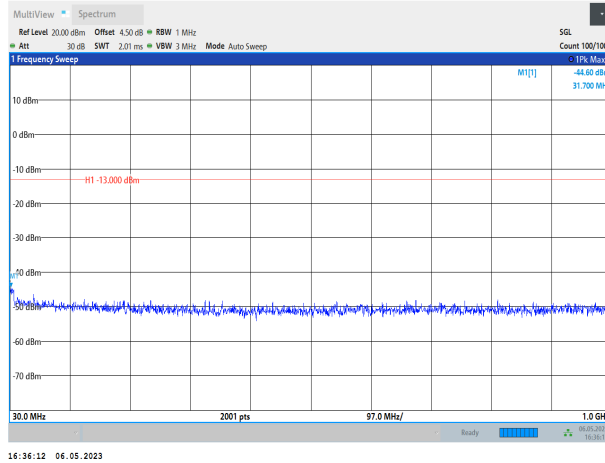


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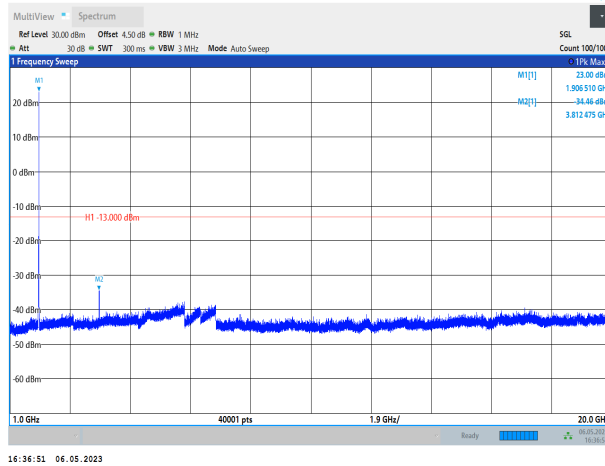
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Band II-9538-30~1000MHz



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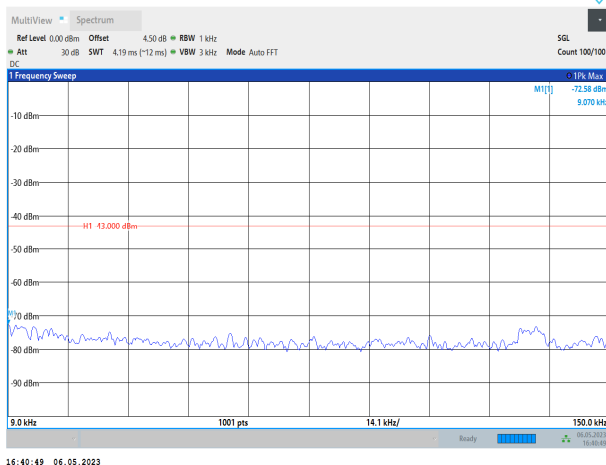
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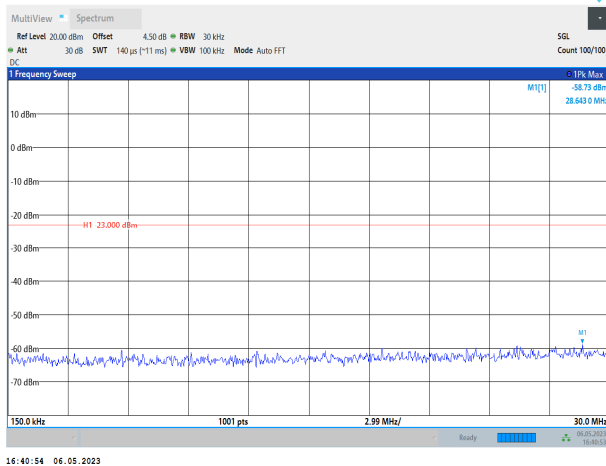
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### Band IV-1312-0.009~0.15MHz



### Band IV-1312-0.15~30MHz



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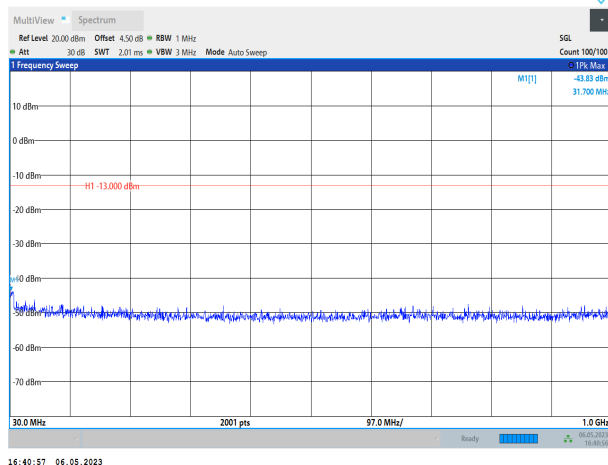
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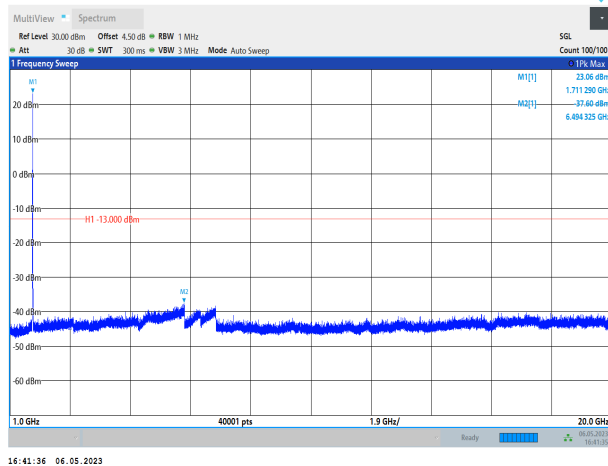
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### Band IV-1312-30~1000MHz



### Band IV-1312-1000~20000MHz

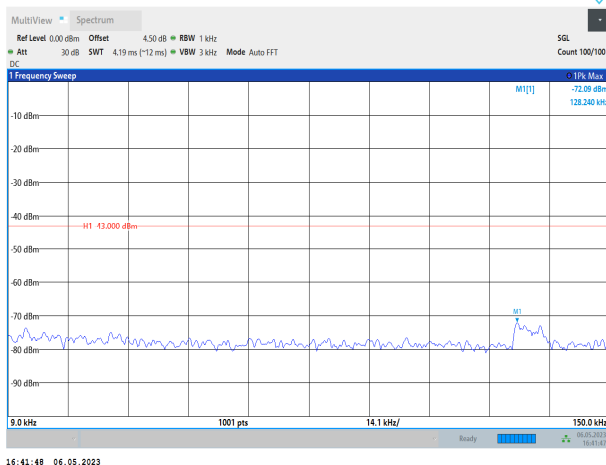


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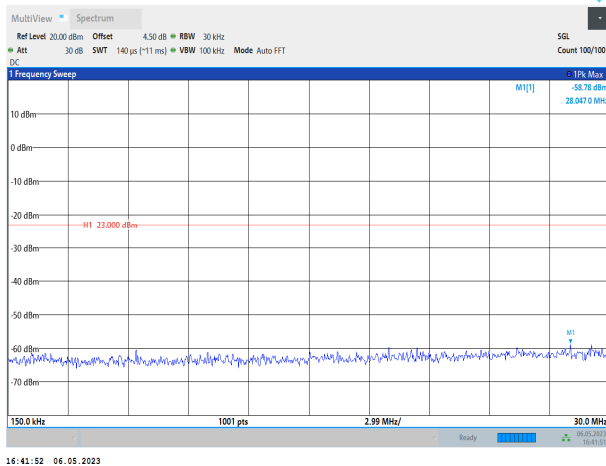
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### Band IV-1413-0.009~0.15MHz



### Band IV-1413-0.15~30MHz



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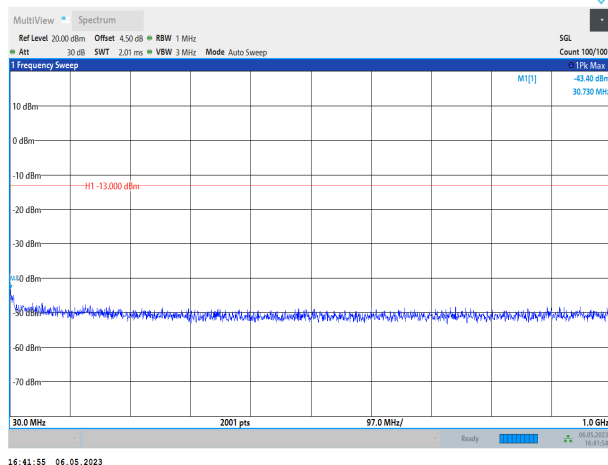


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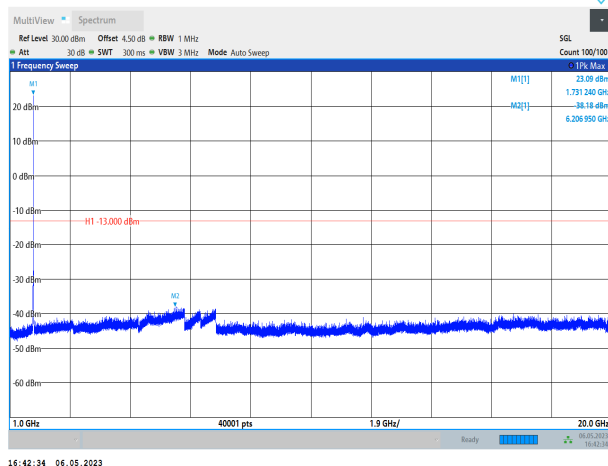
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Band IV-1413-30~1000MHz



Band IV-1413-1000~20000MHz



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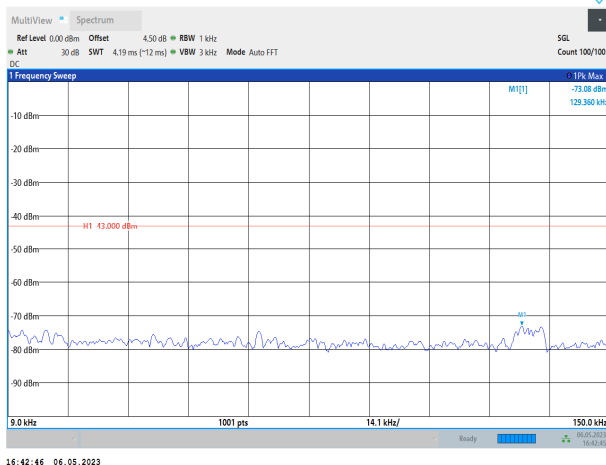
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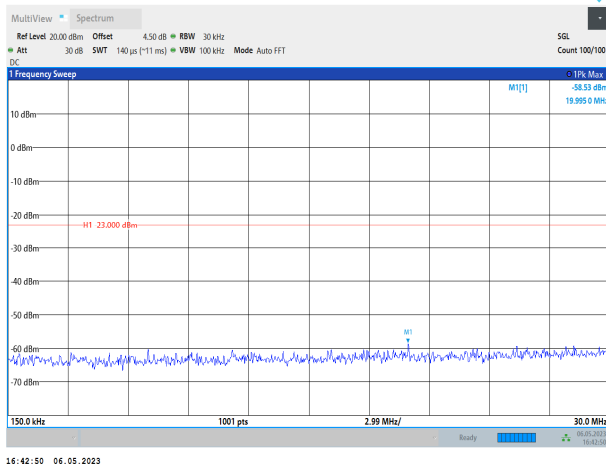
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### Band IV-1513-0.009~0.15MHz



### Band IV-1513-0.15~30MHz



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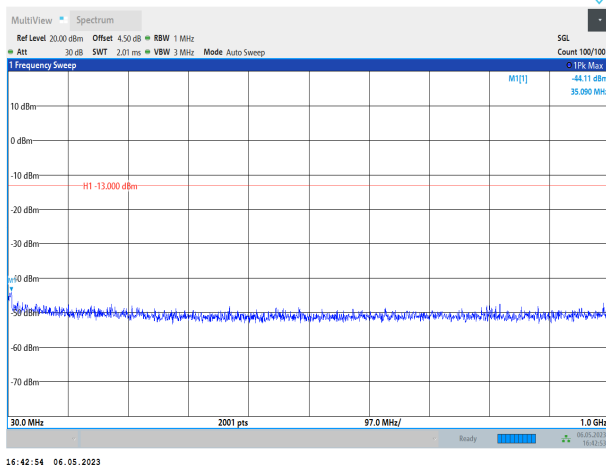
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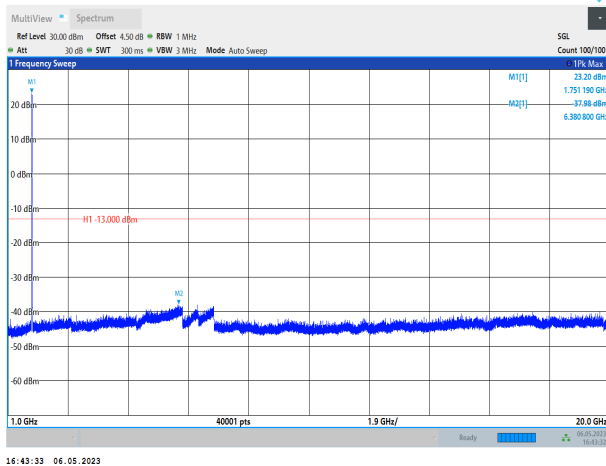
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### Band IV-1513-30~1000MHz



### Band IV-1513-1000~20000MHz



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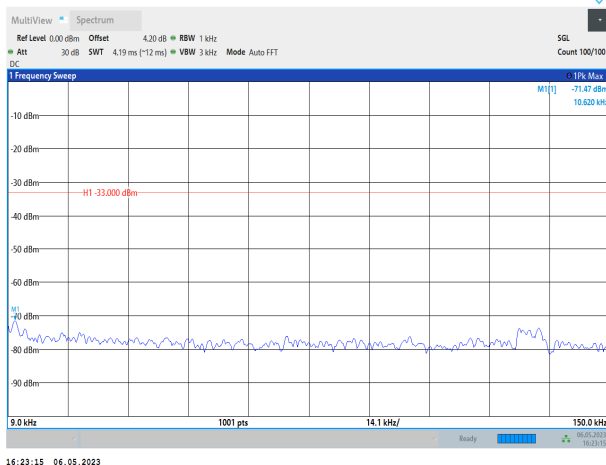
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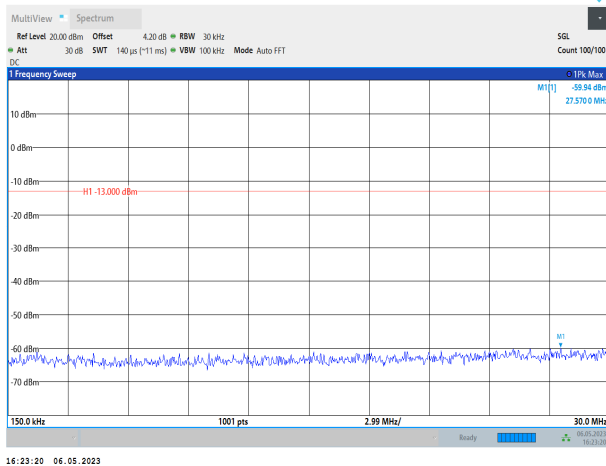
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### Band V-4132-0.009~0.15MHz



### Band V-4132-0.15~30MHz



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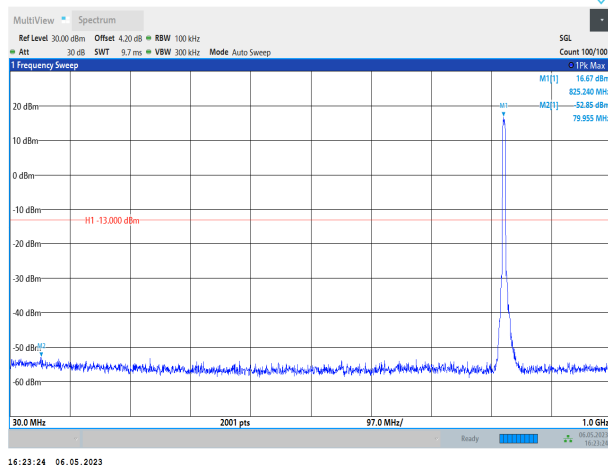
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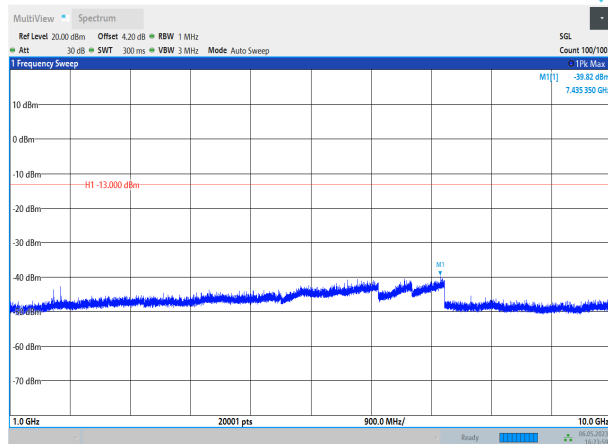
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### Band V-4132-30~1000MHz



16:23:24 06.05.2023

### Band V-4132-1000~10000MHz



16:24:00 06.05.2023



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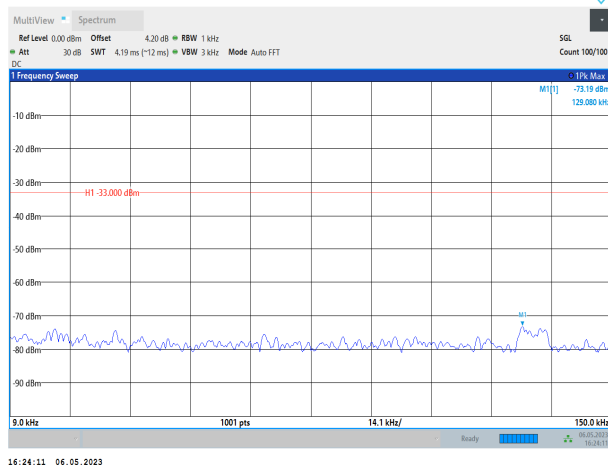
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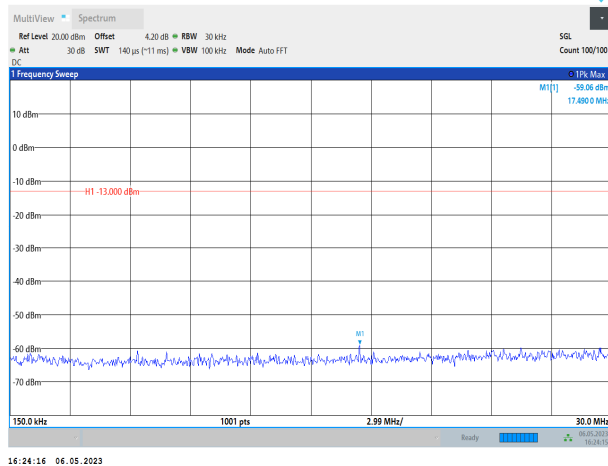
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### Band V-4182-0.009~0.15MHz



### Band V-4182-0.15~30MHz



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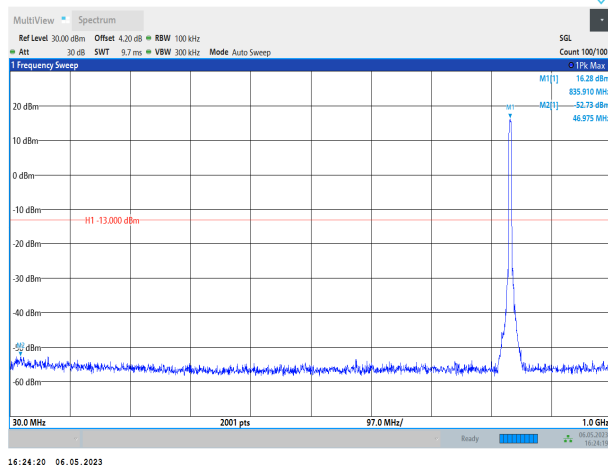
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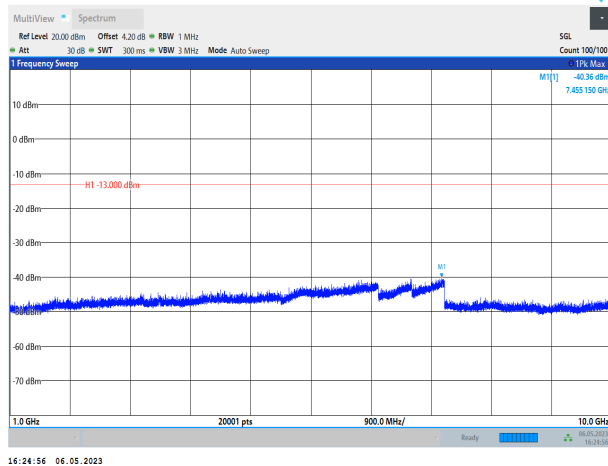
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### Band V-4182-30~1000MHz



### Band V-4182-1000~10000MHz



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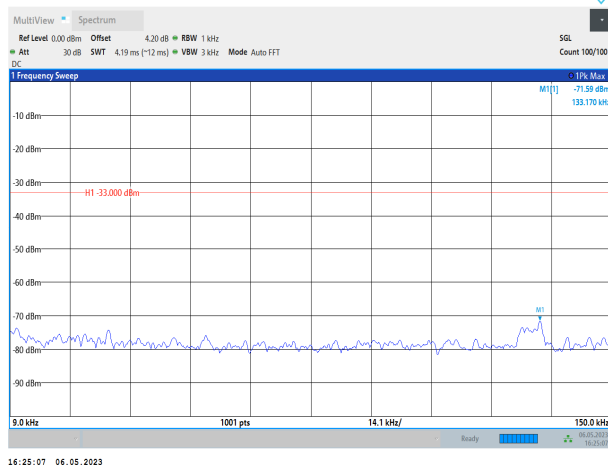


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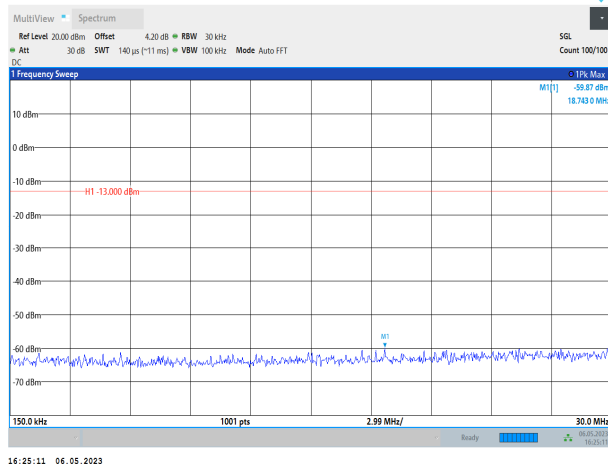
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Band V-4233-0.009~0.15MHz



Band V-4233-0.15~30MHz



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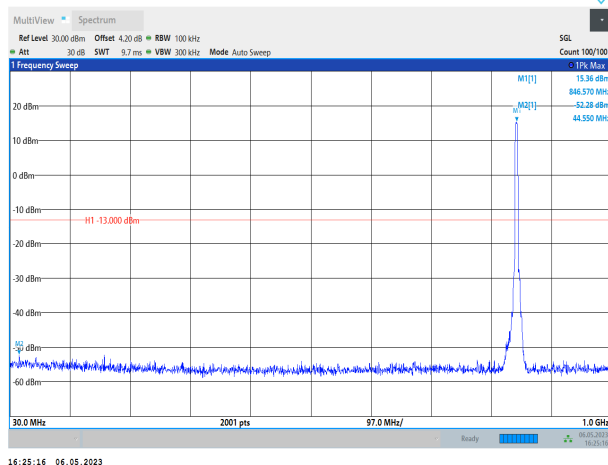
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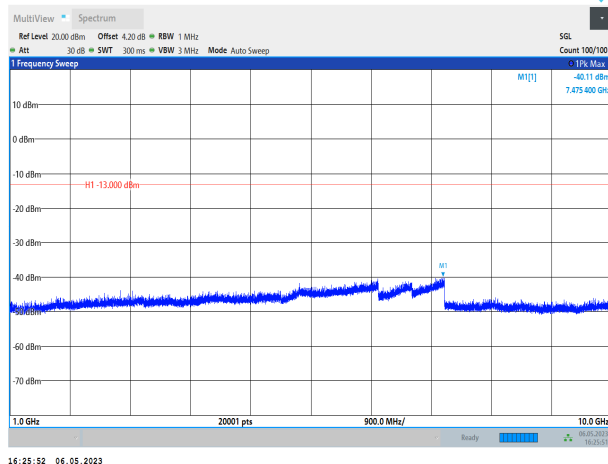
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### Band V-4233-30~1000MHz



### Band V-4233-1000~10000MHz



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## Field Strength of Spurious Radiation

Test Band = WCDMA Band II\_ TM1

Test Channel = LOW

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 3706.5          | 56.60          | -45.53      | 29.99    | -54.19      | -13.00      | 41.19       | 142         | 118       | Horizontal |
| 2               | 5557.2000       | 42.68          | -45.14      | 32.97    | -64.75      | -13.00      | 51.75       | 136         | 209       | Horizontal |
| 3               | 7409.6000       | 42.15          | -43.38      | 36.49    | -60.01      | -13.00      | 47.01       | 258         | 238       | Horizontal |
| 4               | 9262.0000       | 37.21          | -40.23      | 38.39    | -59.89      | -13.00      | 46.89       | 186         | 102       | Horizontal |
| 5               | 11114.4000      | 34.58          | -37.88      | 39.09    | -59.47      | -13.00      | 46.47       | 126         | 356       | Horizontal |
| 6               | 14480.25        | 34.09          | -34.83      | 40.02    | -55.98      | -13.00      | 42.98       | 111         | 224       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 3703.5          | 49.04          | -45.51      | 29.98    | -61.75      | -13.00      | 48.75       | 186         | 209       | Vertical |
| 2               | 5557.2000       | 44.38          | -45.14      | 32.97    | -63.05      | -13.00      | 50.05       | 175         | 285       | Vertical |
| 3               | 7409.6000       | 40.63          | -43.38      | 36.49    | -61.53      | -13.00      | 48.53       | 146         | 0         | Vertical |
| 4               | 9262.0000       | 38.10          | -40.23      | 38.39    | -59.00      | -13.00      | 46.00       | 149         | 73        | Vertical |
| 5               | 11114.4000      | 34.42          | -37.88      | 39.09    | -59.63      | -13.00      | 46.63       | 186         | 29        | Vertical |
| 6               | 14510.25        | 34.20          | -34.89      | 40.00    | -55.94      | -13.00      | 42.94       | 310         | 1         | Vertical |



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Test Band = WCDMA Band II\_ TM1

Test Channel = MID

| Final Data List |                    |                   |                |          |                |                |                |                |              |            |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|------------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1               | 3758.25            | 53.74             | -45.74         | 30.18    | -57.08         | -13.00         | 44.08          | 128            | 129          | Horizontal |
| 2               | 5640.0000          | 46.29             | -44.98         | 33.17    | -60.79         | -13.00         | 47.79          | 143            | 221          | Horizontal |
| 3               | 7520.0000          | 41.35             | -43.10         | 36.43    | -60.58         | -13.00         | 47.58          | 256            | 252          | Horizontal |
| 4               | 9400.0000          | 37.94             | -39.83         | 38.49    | -58.66         | -13.00         | 45.66          | 215            | 284          | Horizontal |
| 5               | 11280.0000         | 35.16             | -37.41         | 39.11    | -58.40         | -13.00         | 45.40          | 193            | 1            | Horizontal |
| 6               | 13715.25           | 35.51             | -36.20         | 40.04    | -55.91         | -13.00         | 42.91          | 211            | 221          | Horizontal |

| Final Data List |                    |                   |                |          |                |                |                |                |              |          |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|----------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1               | 3761.25            | 48.50             | -45.76         | 30.19    | -62.33         | -13.00         | 49.33          | 247            | 90           | Vertical |
| 2               | 5640.0000          | 45.40             | -44.98         | 33.17    | -61.68         | -13.00         | 48.68          | 186            | 2            | Vertical |
| 3               | 7520.0000          | 40.62             | -43.10         | 36.43    | -61.31         | -13.00         | 48.31          | 142            | 285          | Vertical |
| 4               | 9400.0000          | 37.71             | -39.83         | 38.49    | -58.89         | -13.00         | 45.89          | 156            | 196          | Vertical |
| 5               | 11280.0000         | 34.63             | -37.41         | 39.11    | -58.93         | -13.00         | 45.93          | 236            | 104          | Vertical |
| 6               | 13756.5            | 35.18             | -36.30         | 40.00    | -56.37         | -13.00         | 43.37          | 291            | 165          | Vertical |



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Test Band = WCDMA Band II\_ TM1

Test Channel = HIGH

| Final Data List |                    |                   |                |          |                |                |                |                |              |            |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|------------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1               | 3816.75            | 56.64             | -45.98         | 30.37    | -54.23         | -13.00         | 41.23          | 241            | 224          | Horizontal |
| 2               | 5725.5             | 51.46             | -44.82         | 33.48    | -55.15         | -13.00         | 42.15          | 186            | 224          | Horizontal |
| 3               | 7520.0000          | 38.96             | -43.10         | 36.43    | -62.97         | -13.00         | 49.97          | 136            | 356          | Horizontal |
| 4               | 9400.0000          | 36.59             | -39.83         | 38.49    | -60.01         | -13.00         | 47.01          | 259            | 252          | Horizontal |
| 5               | 11280.0000         | 34.05             | -37.41         | 39.11    | -59.51         | -13.00         | 46.51          | 219            | 356          | Horizontal |
| 6               | 14337.75           | 34.25             | -35.65         | 40.13    | -56.53         | -13.00         | 43.53          | 175            | 0            | Horizontal |

| Final Data List |                    |                   |                |          |                |                |                |                |              |          |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|----------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1               | 3813.75            | 50.36             | -45.97         | 30.36    | -60.51         | -13.00         | 47.51          | 241            | 91           | Vertical |
| 2               | 5719.5             | 50.28             | -44.83         | 33.46    | -56.35         | -13.00         | 43.35          | 156            | 0            | Vertical |
| 3               | 7520.0000          | 39.09             | -43.10         | 36.43    | -62.84         | -13.00         | 49.84          | 235            | 60           | Vertical |
| 4               | 9400.0000          | 37.04             | -39.83         | 38.49    | -59.56         | -13.00         | 46.56          | 188            | 180          | Vertical |
| 5               | 11280.0000         | 35.31             | -37.41         | 39.11    | -58.25         | -13.00         | 45.25          | 175            | 44           | Vertical |
| 6               | 13710              | 35.25             | -36.18         | 40.05    | -56.15         | -13.00         | 43.15          | 169            | 60           | Vertical |



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Test Band = WCDMA Band IV\_ TM1

Test Channel = LOW

| Final Data List |                    |                   |                |          |                |                |                |                |              |            |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|------------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1               | 3426               | 55.54             | -46.27         | 29.45    | -56.54         | -13.00         | 43.54          | 143            | 61           | Horizontal |
| 2               | 5137.2000          | 41.99             | -45.34         | 32.96    | -65.65         | -13.00         | 52.65          | 165            | 61           | Horizontal |
| 3               | 6849.6000          | 41.25             | -44.14         | 35.90    | -62.25         | -13.00         | 49.25          | 185            | 211          | Horizontal |
| 4               | 8562.0000          | 37.63             | -41.44         | 37.67    | -61.40         | -13.00         | 48.40          | 199            | 61           | Horizontal |
| 5               | 10274.4000         | 35.79             | -39.19         | 38.83    | -59.83         | -13.00         | 46.83          | 211            | 17           | Horizontal |
| 6               | 14331.75           | 35.38             | -35.73         | 40.13    | -55.48         | -13.00         | 42.48          | 310            | 211          | Horizontal |

| Final Data List |                    |                   |                |          |                |                |                |                |              |          |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|----------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1               | 3423               | 50.80             | -46.28         | 29.45    | -61.28         | -13.00         | 48.28          | 102            | 197          | Vertical |
| 2               | 5137.2000          | 41.52             | -45.34         | 32.96    | -66.12         | -13.00         | 53.12          | 162            | 2            | Vertical |
| 3               | 6849.6000          | 41.02             | -44.14         | 35.90    | -62.48         | -13.00         | 49.48          | 152            | 301          | Vertical |
| 4               | 8562.0000          | 38.23             | -41.44         | 37.67    | -60.80         | -13.00         | 47.80          | 185            | 166          | Vertical |
| 5               | 10274.4000         | 35.88             | -39.19         | 38.83    | -59.74         | -13.00         | 46.74          | 202            | 106          | Vertical |
| 6               | 14442              | 34.60             | -34.82         | 40.05    | -55.43         | -13.00         | 42.43          | 301            | 106          | Vertical |



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Test Band = WCDMA Band IV\_ TM1

Test Channel = MID

| Final Data List |                    |                   |                |          |                |                |                |                |              |            |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|------------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1               | 3466.5             | 53.76             | -46.27         | 29.49    | -58.28         | -13.00         | 45.28          | 152            | 210          | Horizontal |
| 2               | 5197.8000          | 42.38             | -45.28         | 32.99    | -65.17         | -13.00         | 52.17          | 168            | 255          | Horizontal |
| 3               | 6930.4000          | 41.13             | -43.93         | 36.00    | -62.06         | -13.00         | 49.06          | 152            | 0            | Horizontal |
| 4               | 8663.0000          | 38.46             | -41.56         | 37.85    | -60.50         | -13.00         | 47.50          | 203            | 317          | Horizontal |
| 5               | 10395.6000         | 35.86             | -39.01         | 38.86    | -59.55         | -13.00         | 46.55          | 211            | 0            | Horizontal |
| 6               | 13693.5            | 37.33             | -36.15         | 40.06    | -54.02         | -13.00         | 41.02          | 301            | 300          | Horizontal |

| Final Data List |                    |                   |                |          |                |                |                |                |              |          |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|----------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1               | 3466.5             | 51.02             | -46.27         | 29.49    | -61.02         | -13.00         | 48.02          | 103            | 90           | Vertical |
| 2               | 5197.8000          | 42.03             | -45.28         | 32.99    | -65.52         | -13.00         | 52.52          | 168            | 0            | Vertical |
| 3               | 6930.4000          | 40.65             | -43.93         | 36.00    | -62.54         | -13.00         | 49.54          | 188            | 90           | Vertical |
| 4               | 8663.0000          | 38.31             | -41.56         | 37.85    | -60.65         | -13.00         | 47.65          | 169            | 73           | Vertical |
| 5               | 10395.6000         | 35.67             | -39.01         | 38.86    | -59.74         | -13.00         | 46.74          | 211            | 254          | Vertical |
| 6               | 14281.5            | 35.97             | -36.00         | 40.17    | -55.12         | -13.00         | 42.12          | 301            | 254          | Vertical |



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Test Band = WCDMA Band IV\_ TM1

Test Channel = HIGH

| Final Data List |                    |                   |                |          |                |                |                |                |              |            |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|------------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1               | 3506.25            | 57.55             | -46.25         | 29.53    | -54.44         | -13.00         | 41.44          | 199            | 120          | Horizontal |
| 2               | 5257.8000          | 42.48             | -45.17         | 32.93    | -65.01         | -13.00         | 52.01          | 142            | 315          | Horizontal |
| 3               | 7010.4000          | 41.05             | -43.62         | 36.11    | -61.72         | -13.00         | 48.72          | 188            | 270          | Horizontal |
| 4               | 8763.0000          | 38.97             | -41.41         | 38.02    | -59.68         | -13.00         | 46.68          | 203            | 0            | Horizontal |
| 5               | 10515.6000         | 35.49             | -38.75         | 38.98    | -59.54         | -13.00         | 46.54          | 216            | 331          | Horizontal |
| 6               | 13707.75           | 36.05             | -36.18         | 40.05    | -55.34         | -13.00         | 42.34          | 311            | 256          | Horizontal |

| Final Data List |                    |                   |                |          |                |                |                |                |              |          |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|----------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1               | 3507               | 53.12             | -46.25         | 29.53    | -58.86         | -13.00         | 45.86          | 150            | 151          | Vertical |
| 2               | 5257.8000          | 41.76             | -45.17         | 32.93    | -65.73         | -13.00         | 52.73          | 310            | 105          | Vertical |
| 3               | 7010.4000          | 40.79             | -43.62         | 36.11    | -61.98         | -13.00         | 48.98          | 258            | 74           | Vertical |
| 4               | 8763.0000          | 38.83             | -41.41         | 38.02    | -59.82         | -13.00         | 46.82          | 216            | 1            | Vertical |
| 5               | 10515.6000         | 36.03             | -38.75         | 38.98    | -59.00         | -13.00         | 46.00          | 155            | 46           | Vertical |
| 6               | 13700.25           | 35.78             | -36.16         | 40.05    | -55.59         | -13.00         | 42.59          | 188            | 286          | Vertical |



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Test Band = WCDMA Band V \_ TM1

Test Channel = LOW

## Final Data List

| NO. | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|------------|
| 1   | 1650.8571          | 47.18             | -48.22         | 25.37    | -70.93         | -13.00         | 57.93          | 109            | 277          | Horizontal |
| 2   | 2479.2000          | 43.04             | -47.31         | 27.70    | -71.82         | -13.00         | 58.82          | 215            | 360          | Horizontal |
| 3   | 3305.6000          | 43.00             | -46.67         | 29.55    | -69.38         | -13.00         | 56.38          | 187            | 118          | Horizontal |
| 4   | 4132.0000          | 41.59             | -45.92         | 31.00    | -68.59         | -13.00         | 55.59          | 221            | 290          | Horizontal |
| 5   | 4958.4000          | 42.04             | -45.72         | 32.76    | -66.17         | -13.00         | 53.17          | 196            | 171          | Horizontal |
| 6   | 5954.2857          | 42.57             | -44.68         | 34.04    | -63.32         | -13.00         | 50.32          | 285            | 305          | Horizontal |

## Final Data List

| NO. | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|----------|
| 1   | 1652.8000          | 44.49             | -48.22         | 25.37    | -73.61         | -13.00         | 60.61          | 215            | 222          | Vertical |
| 2   | 2479.2000          | 44.04             | -47.31         | 27.70    | -70.82         | -13.00         | 57.82          | 147            | 32           | Vertical |
| 3   | 3305.6000          | 42.75             | -46.67         | 29.55    | -69.63         | -13.00         | 56.63          | 231            | 180          | Vertical |
| 4   | 4132.0000          | 42.01             | -45.92         | 31.00    | -68.17         | -13.00         | 55.17          | 159            | 251          | Vertical |
| 5   | 4958.4000          | 41.56             | -45.72         | 32.76    | -66.65         | -13.00         | 53.65          | 148            | 208          | Vertical |
| 6   | 7408.5714          | 41.64             | -43.27         | 36.49    | -60.41         | -13.00         | 47.41          | 129            | 0            | Vertical |



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Test Band = WCDMA Band V \_ TM1

Test Channel = MID

## Final Data List

| NO. | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|------------|
| 1   | 1671.4286          | 46.94             | -48.19         | 25.38    | -71.14         | -13.00         | 58.14          | 187            | 335          | Horizontal |
| 2   | 2509.2000          | 43.60             | -47.24         | 27.80    | -71.09         | -13.00         | 58.09          | 214            | 335          | Horizontal |
| 3   | 3345.6000          | 42.97             | -46.62         | 29.50    | -69.41         | -13.00         | 56.41          | 296            | 39           | Horizontal |
| 4   | 4182.0000          | 41.07             | -45.95         | 31.07    | -69.07         | -13.00         | 56.07          | 158            | 352          | Horizontal |
| 5   | 5018.4000          | 40.96             | -45.73         | 32.89    | -67.14         | -13.00         | 54.14          | 213            | 214          | Horizontal |
| 6   | 7001.1429          | 41.17             | -43.58         | 36.08    | -61.58         | -13.00         | 48.58          | 156            | 253          | Horizontal |

## Final Data List

| NO. | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|----------|
| 1   | 1672.8000          | 44.58             | -48.19         | 25.38    | -73.49         | -13.00         | 60.49          | 103            | 267          | Vertical |
| 2   | 2509.2000          | 43.53             | -47.24         | 27.80    | -71.16         | -13.00         | 58.16          | 256            | 357          | Vertical |
| 3   | 3345.6000          | 43.09             | -46.62         | 29.50    | -69.29         | -13.00         | 56.29          | 188            | 201          | Vertical |
| 4   | 4182.0000          | 41.75             | -45.95         | 31.07    | -68.39         | -13.00         | 55.39          | 223            | 25           | Vertical |
| 5   | 5018.4000          | 41.17             | -45.73         | 32.89    | -66.93         | -13.00         | 53.93          | 159            | 53           | Vertical |
| 6   | 7401.1429          | 41.73             | -43.26         | 36.49    | -60.30         | -13.00         | 47.30          | 214            | 357          | Vertical |



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Test Band = WCDMA Band V \_ TM1

Test Channel = HIGH

| Final Data List |                    |                   |                |          |                |                |                |                |              |            |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|------------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1               | 1695.4286          | 48.33             | -48.17         | 25.39    | -69.71         | -13.00         | 56.71          | 158            | 198          | Horizontal |
| 2               | 2539.8000          | 43.48             | -47.13         | 27.90    | -71.01         | -13.00         | 58.01          | 212            | 360          | Horizontal |
| 3               | 3386.4000          | 43.43             | -46.56         | 29.45    | -68.94         | -13.00         | 55.94          | 196            | 359          | Horizontal |
| 4               | 4233.0000          | 41.55             | -45.90         | 31.17    | -68.44         | -13.00         | 55.44          | 256            | 251          | Horizontal |
| 5               | 5079.6000          | 41.05             | -45.47         | 32.92    | -66.75         | -13.00         | 53.75          | 148            | 39           | Horizontal |
| 6               | 7366.2857          | 41.94             | -43.33         | 36.51    | -60.14         | -13.00         | 47.14          | 123            | 132          | Horizontal |

| Final Data List |                    |                   |                |          |                |                |                |                |              |          |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|----------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1               | 1693.2000          | 44.38             | -48.17         | 25.39    | -73.66         | -13.00         | 60.66          | 233            | 240          | Vertical |
| 2               | 2539.8000          | 43.61             | -47.13         | 27.90    | -70.88         | -13.00         | 57.88          | 147            | 134          | Vertical |
| 3               | 3386.4000          | 43.28             | -46.56         | 29.45    | -69.09         | -13.00         | 56.09          | 256            | 96           | Vertical |
| 4               | 4233.0000          | 41.97             | -45.90         | 31.17    | -68.02         | -13.00         | 55.02          | 158            | 227          | Vertical |
| 5               | 5079.6000          | 41.23             | -45.47         | 32.92    | -66.57         | -13.00         | 53.57          | 259            | 255          | Vertical |
| 6               | 6763.4286          | 41.88             | -44.10         | 35.77    | -61.71         | -13.00         | 48.71          | 231            | 0            | 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) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## Frequency Stability

### Test Result

| Band    | Channel | Voltage (Vdc) | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|---------|---------|---------------|------------------|----------------|-----------------|---------|
| Band II | 9400    | VL            | NT               | -7.45          | -0.003963       | PASS    |
| Band II | 9400    | VN            | NT               | -4.90          | -0.002606       | PASS    |
| Band II | 9400    | VH            | NT               | -10.62         | -0.005649       | PASS    |
| Band IV | 1413    | VL            | NT               | -11.85         | -0.006839       | PASS    |
| Band IV | 1413    | VN            | NT               | -14.03         | -0.008098       | PASS    |
| Band IV | 1413    | VH            | NT               | -11.56         | -0.006672       | PASS    |

| Voltage |         |               |                  |                |                 |             |         |
|---------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band    | Channel | Voltage (Vdc) | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band V  | 4182    | VL            | NT               | -9.48          | -0.011334       | ±2.5        | PASS    |
| Band V  | 4182    | VN            | NT               | -12.78         | -0.015280       | ±2.5        | PASS    |
| Band V  | 4182    | VH            | NT               | -7.43          | -0.008883       | ±2.5        | PASS    |



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| Band    | Channel | Voltage (Vdc) | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|---------|---------|---------------|------------------|----------------|-----------------|---------|
| Band II | 9400    | NV            | -30              | -9.68          | -0.005149       | PASS    |
| Band II | 9400    | NV            | -20              | -10.25         | -0.005452       | PASS    |
| Band II | 9400    | NV            | -10              | -7.46          | -0.006783       | PASS    |
| Band II | 9400    | NV            | 0                | -8.19          | -0.004356       | PASS    |
| Band II | 9400    | NV            | 10               | -6.03          | -0.003207       | PASS    |
| Band II | 9400    | NV            | 20               | -10.72         | -0.005702       | PASS    |
| Band II | 9400    | NV            | 30               | -8.88          | -0.004723       | PASS    |
| Band II | 9400    | NV            | 40               | -11.64         | -0.006191       | PASS    |
| Band II | 9400    | NV            | 50               | -10.97         | -0.005835       | PASS    |
| Band IV | 1413    | NV            | -30              | -13.43         | -0.007751       | PASS    |
| Band IV | 1413    | NV            | -20              | -12.18         | -0.007030       | PASS    |
| Band IV | 1413    | NV            | -10              | -8.36          | -0.087431       | PASS    |
| Band IV | 1413    | NV            | 0                | -15.35         | -0.008860       | PASS    |
| Band IV | 1413    | NV            | 10               | -13.21         | -0.007624       | PASS    |
| Band IV | 1413    | NV            | 20               | -9.67          | -0.005581       | PASS    |
| Band IV | 1413    | NV            | 30               | -8.46          | -0.004883       | PASS    |
| Band IV | 1413    | NV            | 40               | -8.61          | -0.004969       | PASS    |
| Band IV | 1413    | NV            | 50               | -13.43         | -0.007751       | PASS    |

| Temperature |         |               |                  |                |                 |             |         |
|-------------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band        | Channel | Voltage (Vdc) | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band V      | 4182    | NV            | -30              | -11.06         | -0.013223       | ±2.5        | PASS    |
| Band V      | 4182    | NV            | -20              | -8.55          | -0.010222       | ±2.5        | PASS    |
| Band V      | 4182    | NV            | -10              | -13.30         | -0.016798       | ±2.5        | PASS    |
| Band V      | 4182    | NV            | 0                | -12.90         | -0.015423       | ±2.5        | PASS    |
| Band V      | 4182    | NV            | 10               | -7.25          | -0.008668       | ±2.5        | PASS    |
| Band V      | 4182    | NV            | 20               | -13.39         | -0.016009       | ±2.5        | PASS    |
| Band V      | 4182    | NV            | 30               | -6.50          | -0.007771       | ±2.5        | PASS    |
| Band V      | 4182    | NV            | 40               | -13.12         | -0.015686       | ±2.5        | PASS    |
| Band V      | 4182    | NV            | 50               | -4.61          | -0.005512       | ±2.5        | PASS    |

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