# Appendix B

## WCDMA BAND II & IV & V

# CONTENT

# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1. Test Result

| BAND | Channel | Power(dBm) | EIRP(dBm) | Limit(dBm) | Verdict |
|---|---|---|---|---|---|
| Band II | 9262 | 22.91 | 24.71 | 33.00 | PASS |
| Band II | 9400 | 22.83 | 24.63 | 33.00 | PASS |
| Band II | 9538 | 22.74 | 24.54 | 33.00 | PASS |
| Band IV | 1312 | 23.34 | 24.84 | 30.00 | PASS |
| Band IV | 1413 | 23.38 | 24.88 | 30.00 | PASS |
| Band IV | 1513 | 23.35 | 24.85 | 30.00 | PASS |

| BAND | Channel | Power(dBm) | ERP(dBm) | Limit(dBm) | Verdict |
|---|---|---|---|---|---|
| Band V | 4132 | 22.42 | 19.37 | 38.45 | PASS |
| Band V | 4182 | 22.25 | 19.20 | 38.45 | PASS |
| Band V | 4233 | 22.29 | 19.24 | 38.45 | PASS |

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

EIRP [dBm] = SGP [dBm] – Cable Loss [dB] + Gain [dBi]

ERP [dBm] = SGP [dBm] – Cable Loss [dB] + Gain [dBd]

b: SGP=Signal Generator Level

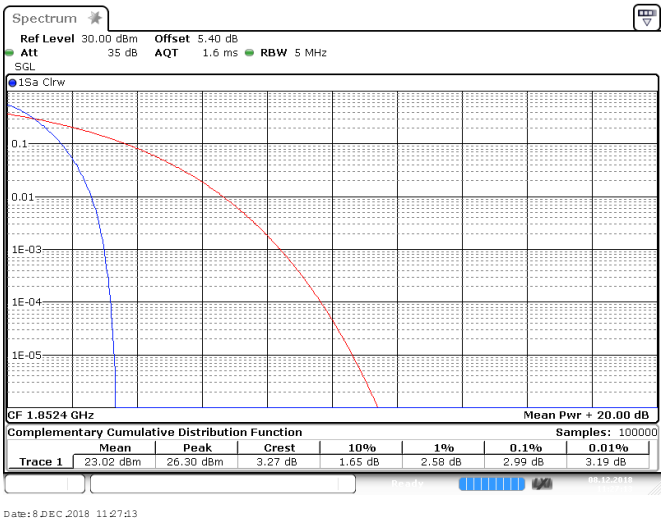
# 2. Peak-to-Average Ratio

## 2.1. Test Result

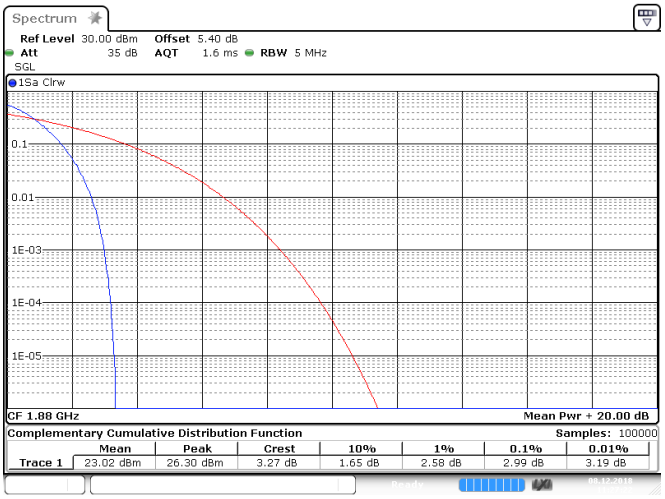
| BAND | Channel | Peak-to-Average Ratio(dB) | Limit(dB) | Verdict |
|---|---|---|---|---|
| Band II | 9262 | 2.99 | 13 | PASS |
| Band II | 9400 | 2.99 | 13 | PASS |
| Band II | 9538 | 2.99 | 13 | PASS |
| Band IV | 1312 | 2.99 | 13 | PASS |
| Band IV | 1413 | 2.99 | 13 | PASS |
| Band IV | 1513 | 2.99 | 13 | PASS |
| Band V | 4132 | 3.28 | 13 | PASS |
| Band V | 4182 | 3.28 | 13 | PASS |
| Band V | 4233 | 3.28 | 13 | PASS |

## 2.2. Test Plots

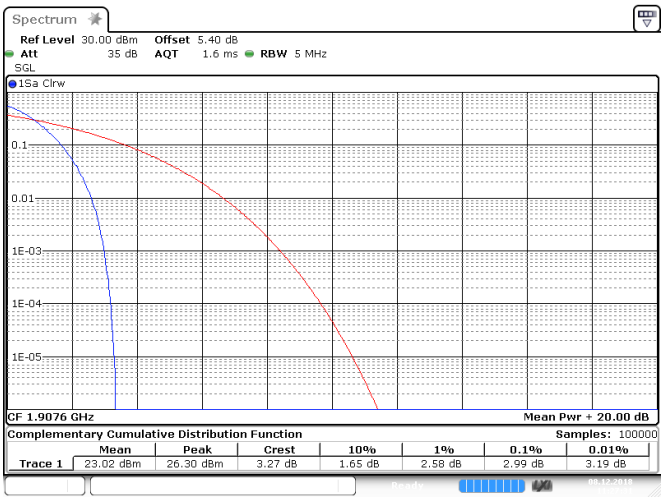
BAND II_9262



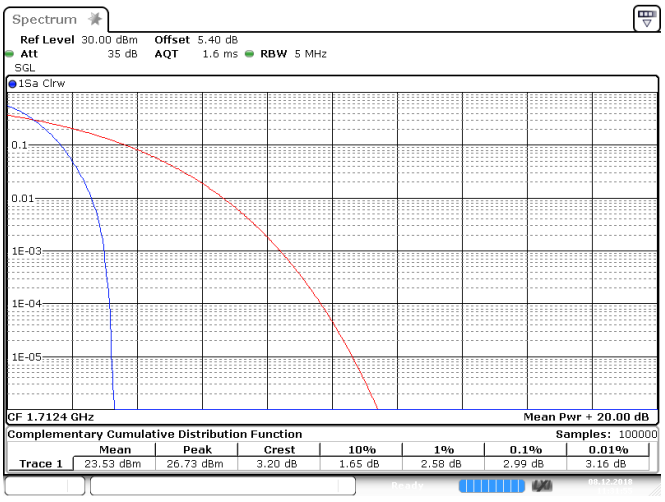

BAND II_9400



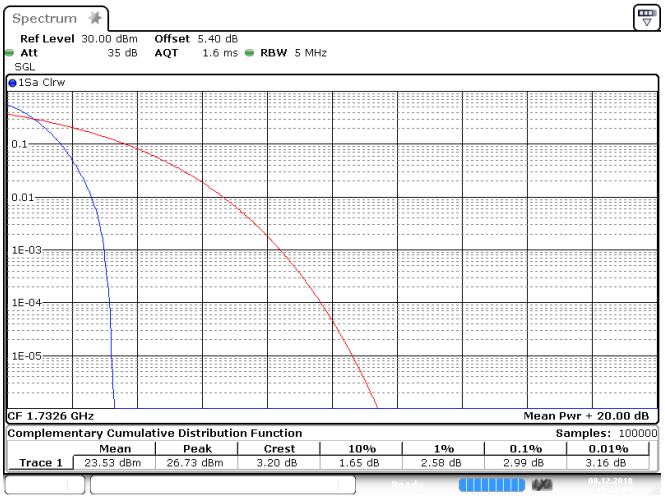

BAND II_9538



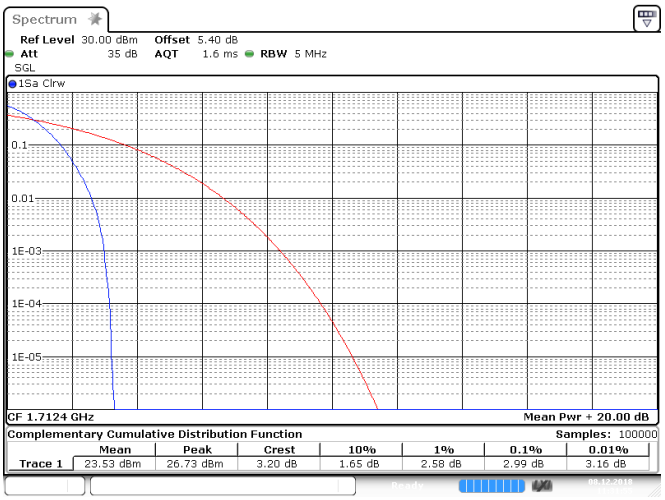

BAND IV_1312



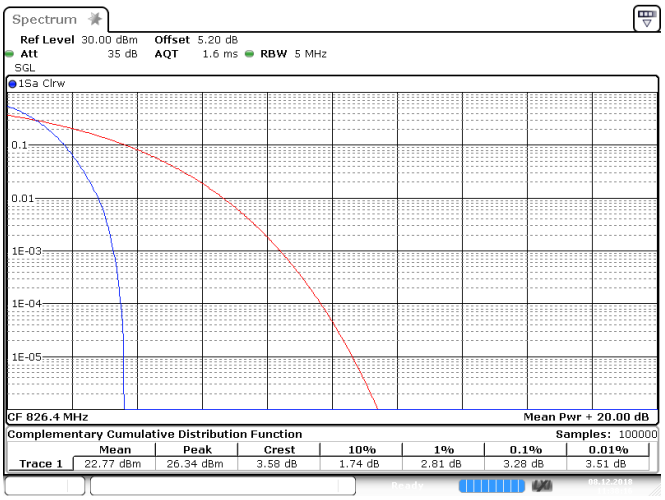

BAND IV_1413



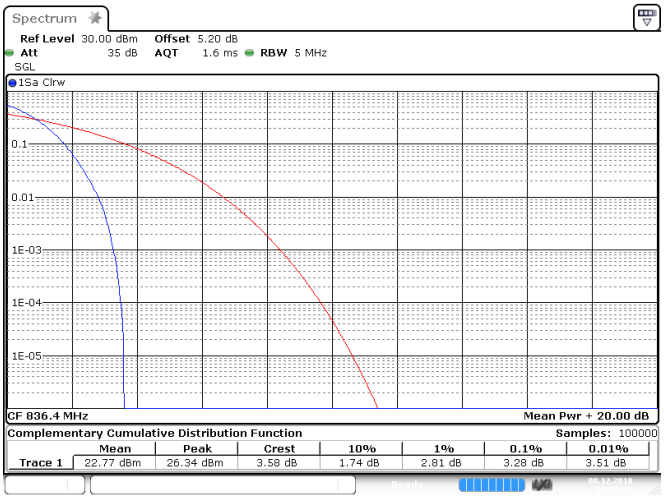

BAND IV_1513



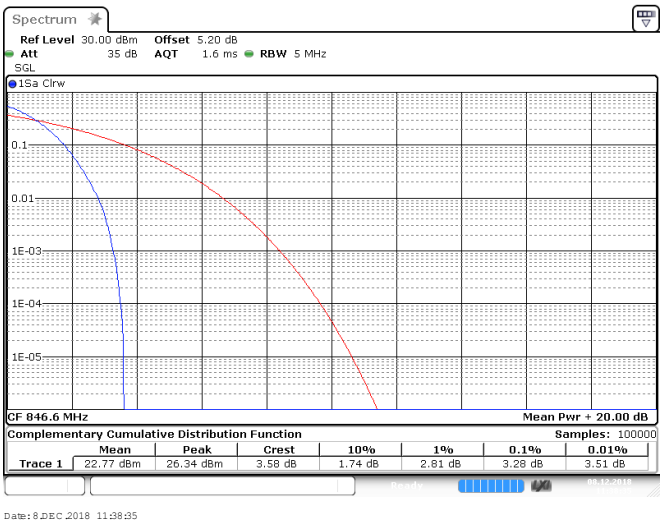

BAND V_4132




BAND V_4182




BAND V_4233



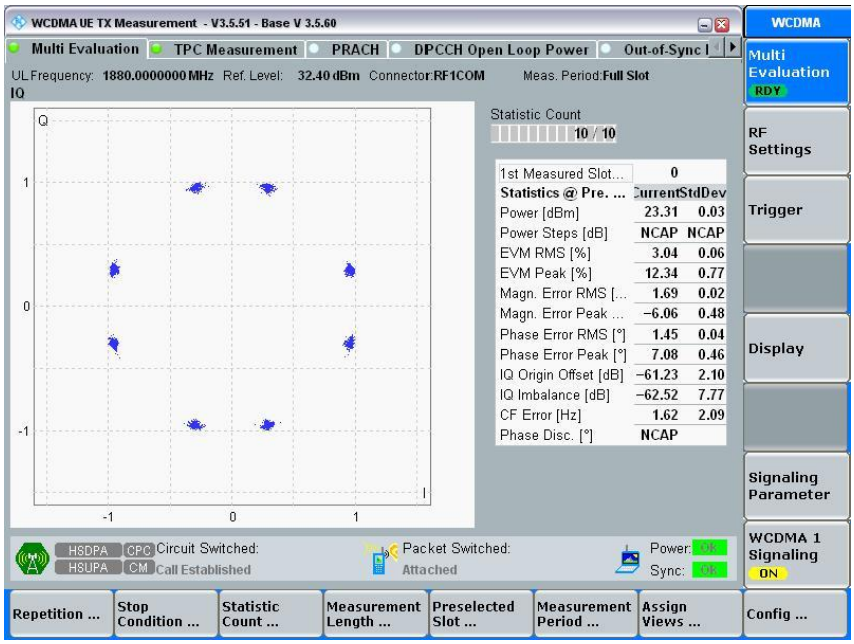
# 3. Modulation Characteristics

## 3.1. For WCDMA

### 3.1.1. Test BAND = WCDMA BAND II

#### 3.1.1.1. Test Mode = UMTS/TM1

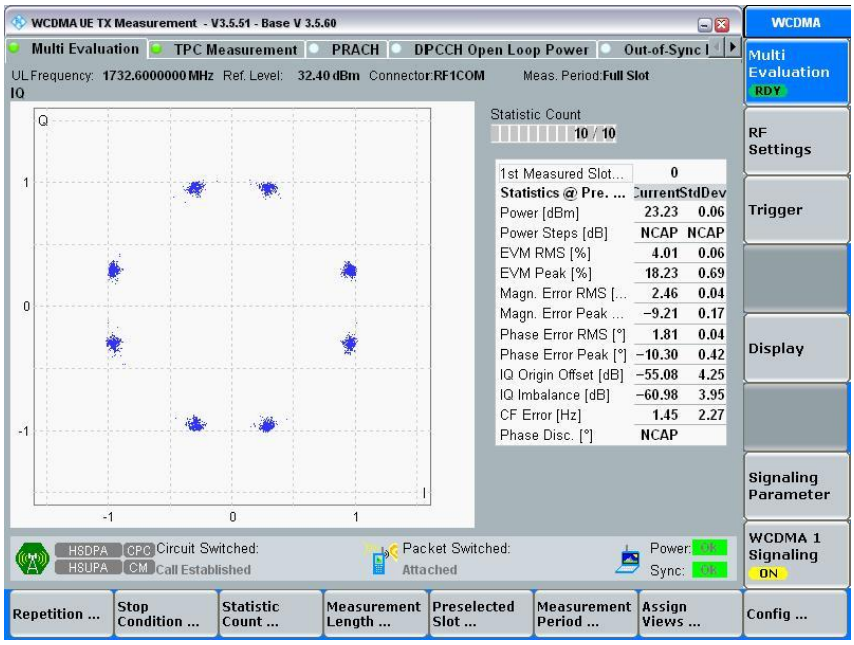
##### 3.1.1.1.1. Test Channel = MCH



### 3.1.2. Test BAND = WCDMA BAND IV

### 3.1.2.1. Test Mode = UMTS/TM1

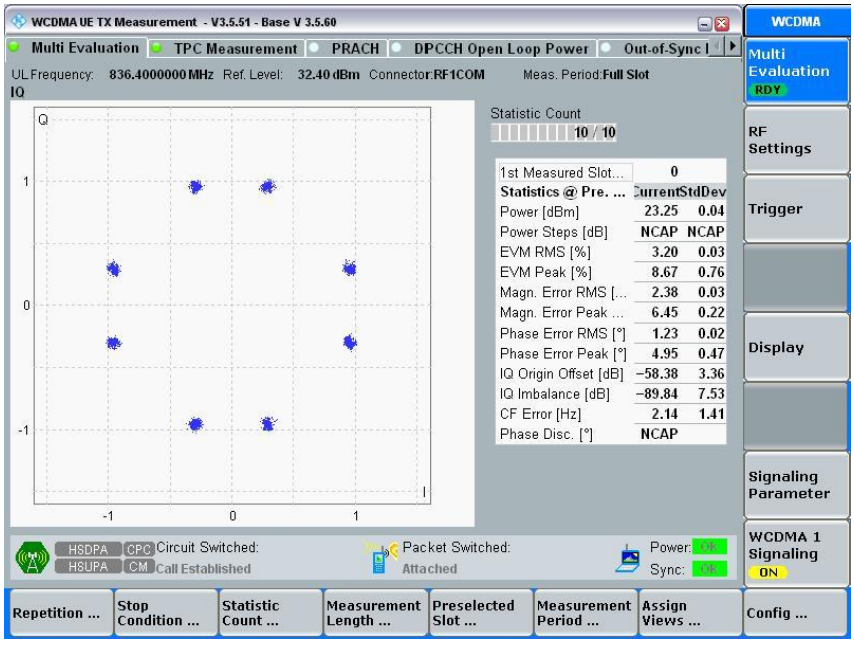
### 3.1.2.1.1. Test Channel = MCH




### 3.1.3. Test BAND = WCDMA BAND V

### 3.1.3.1. Test Mode = UMTS /TM1

### 3.1.3.1.1. Test Channel = MCH

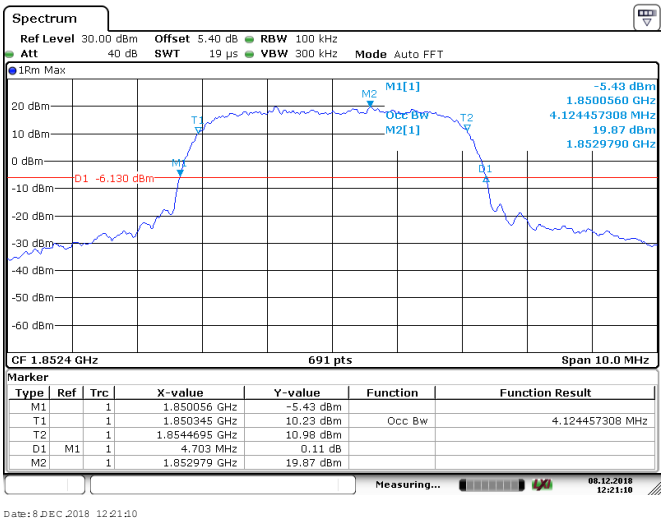


# 4. 26dB Bandwidth and Occupied Bandwidth

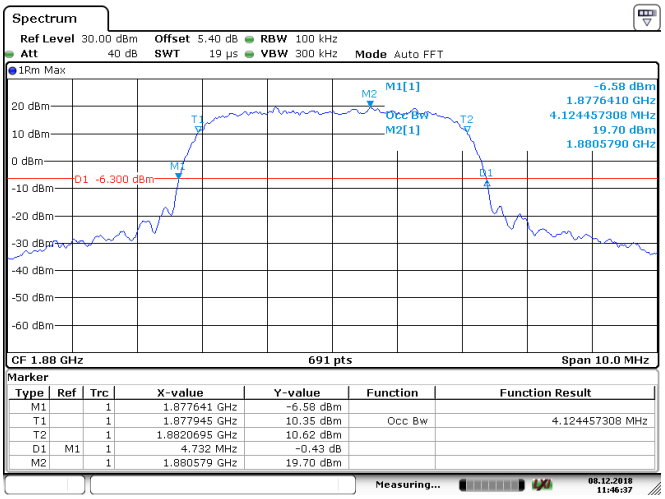
## 4.1. Test Result

| BAND | Channel | Occupied Bandwidth (kHz) | 26dB Bandwidth (kHz) | Limit(kHz) | Verdict |
|---|---|---|---|---|---|
| Band II | 9262 | 4124.4 | 4703.0 | --- | PASS |
| Band II | 9400 | 4124.4 | 4732.0 | --- | PASS |
| Band II | 9538 | 4109.9 | 4718.0 | --- | PASS |
| Band IV | 1312 | 4124.4 | 4718.0 | --- | PASS |
| Band IV | 1413 | 4124.4 | 4718.0 | --- | PASS |
| Band IV | 1513 | 4124.4 | 4732.0 | --- | PASS |
| Band V | 4132 | 4138.9 | 4689.0 | --- | PASS |
| Band V | 4182 | 4124.4 | 4732.0 | --- | PASS |
| Band V | 4233 | 4081.0 | 4703.0 | --- | PASS |

## 4.2. Test Plots

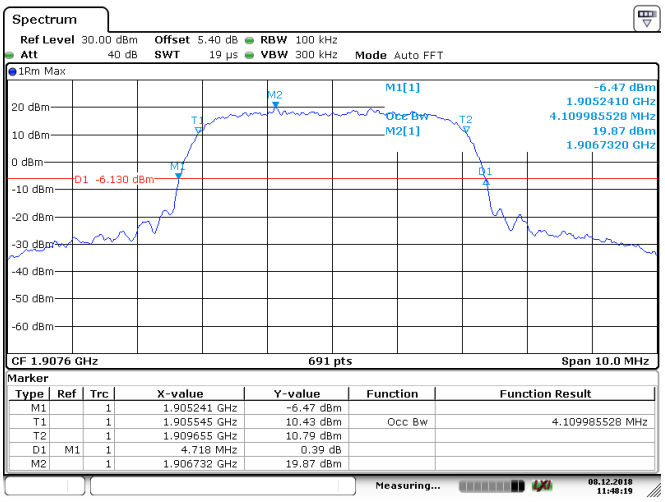



Band II_9262




Date: 8.DEC.2018 11:46:37

Band II_9400

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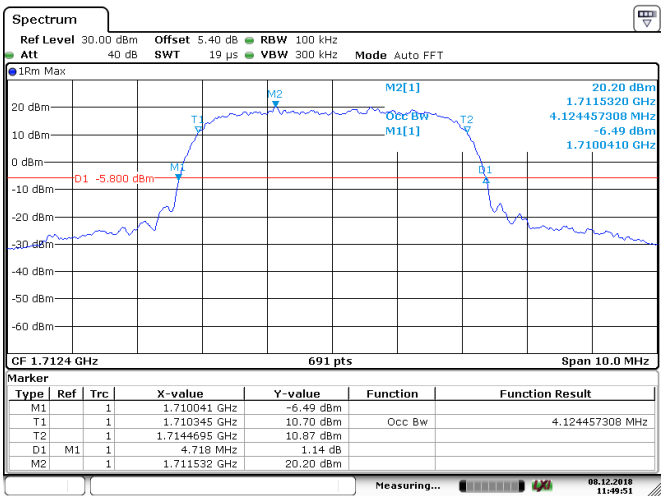
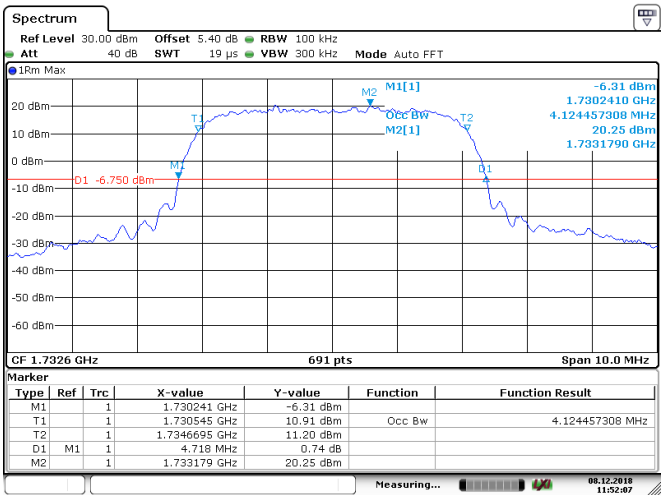
Band II_9538

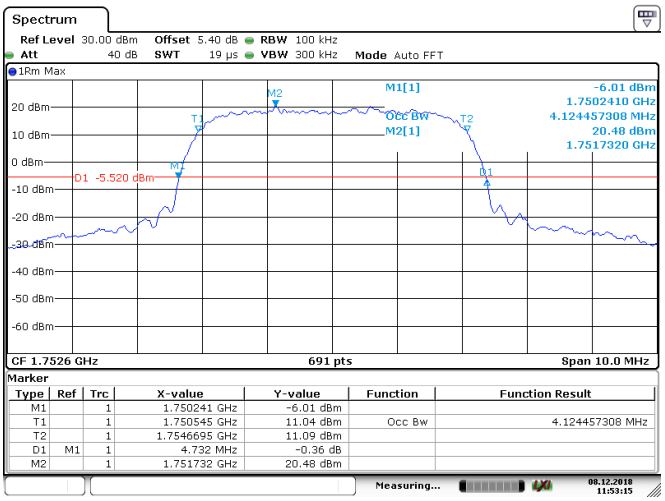



Date: 8.DEC.2018 11:49:51

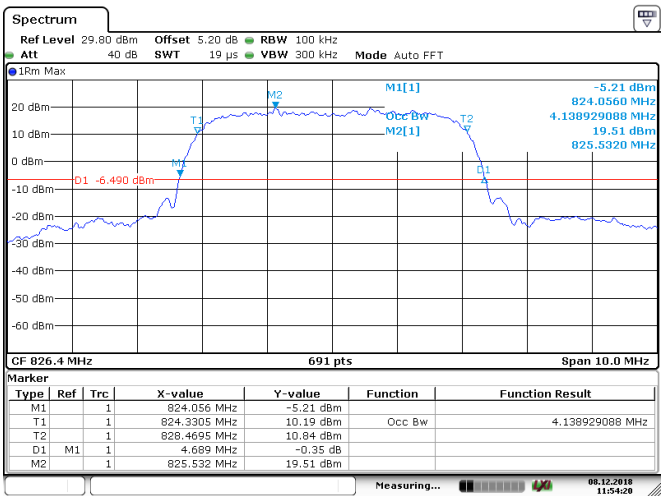
Band IV_1312



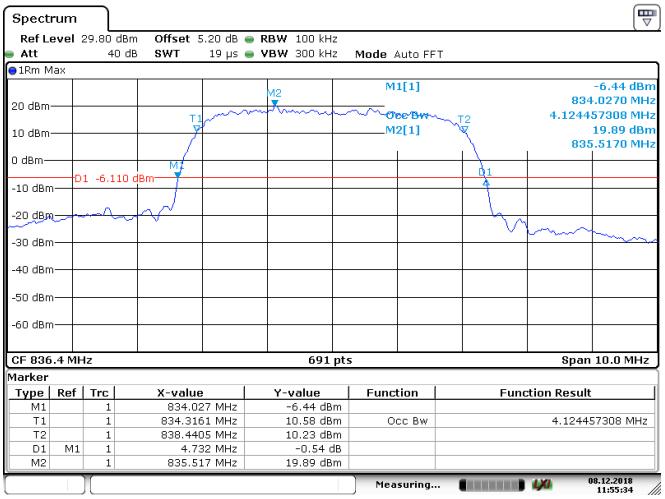

Band IV_1413



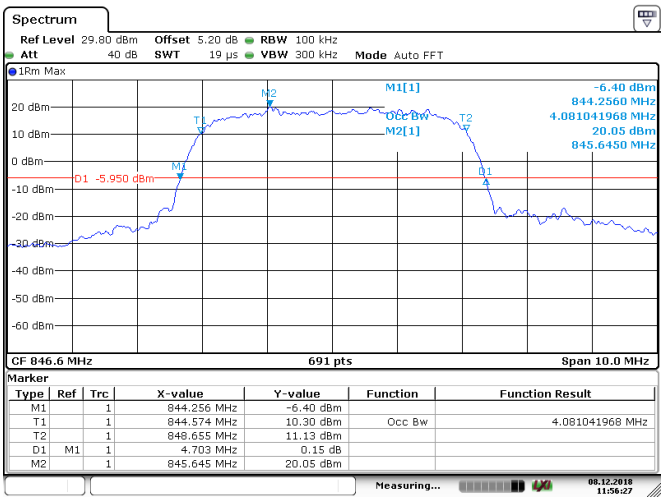

Band IV_1513




Band V_4132



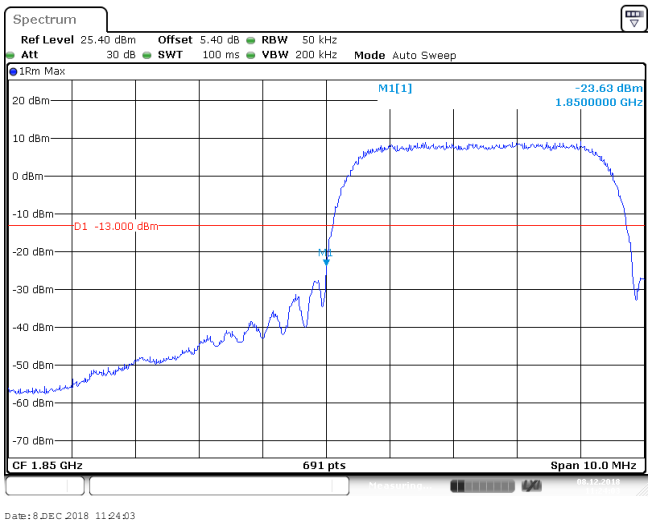

Band V_4182



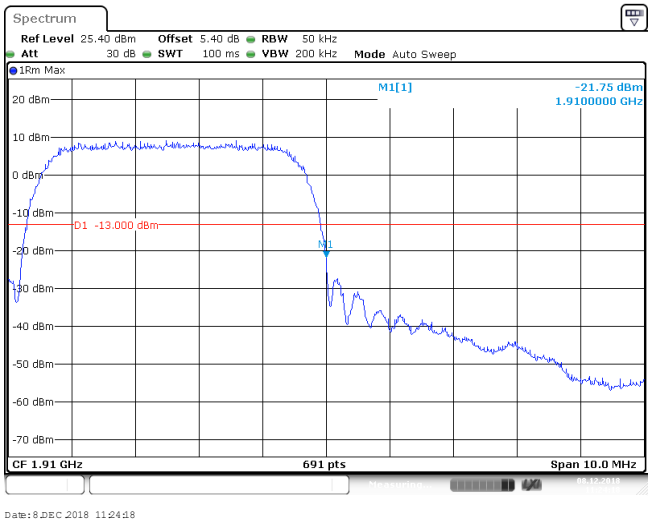

Band V_4233

# 5. Band Edge Compliance

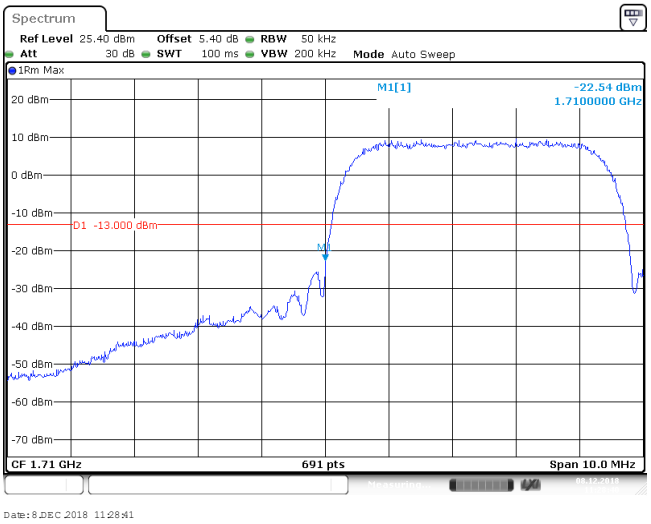
## 5.1. Test Plots



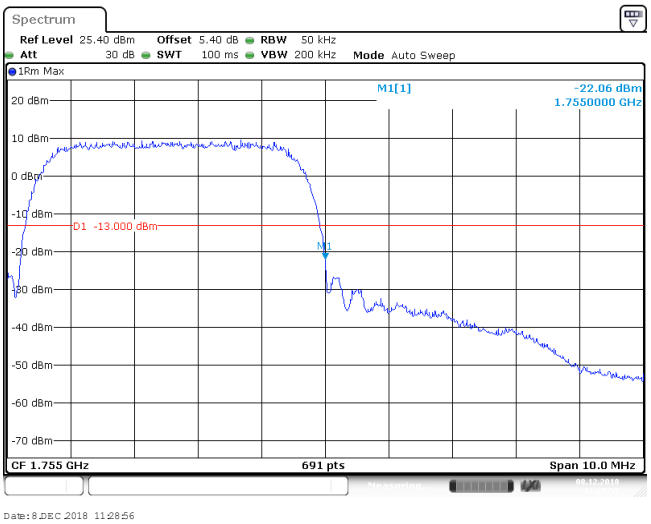

Band II_9262



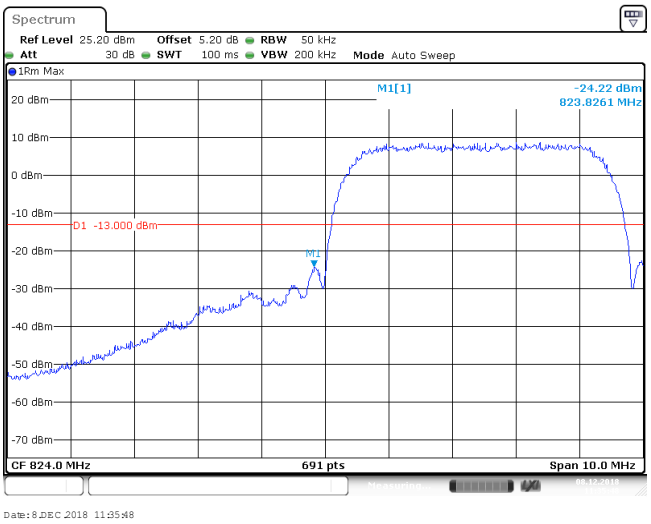

Band II_9538



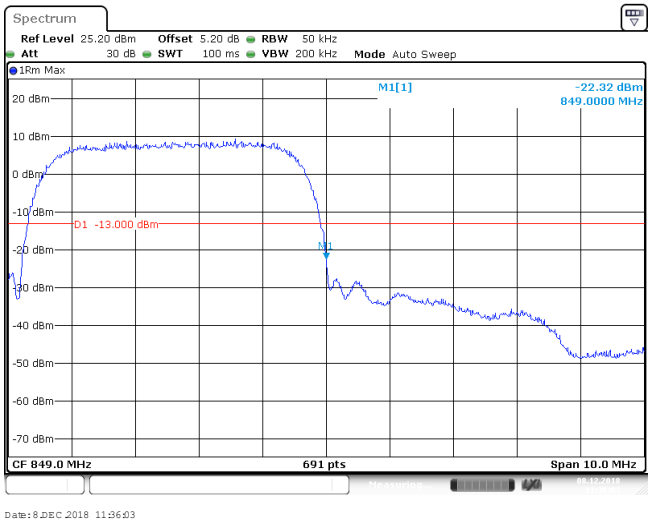

Band IV_1312




Band IV_1513




Band V_4132



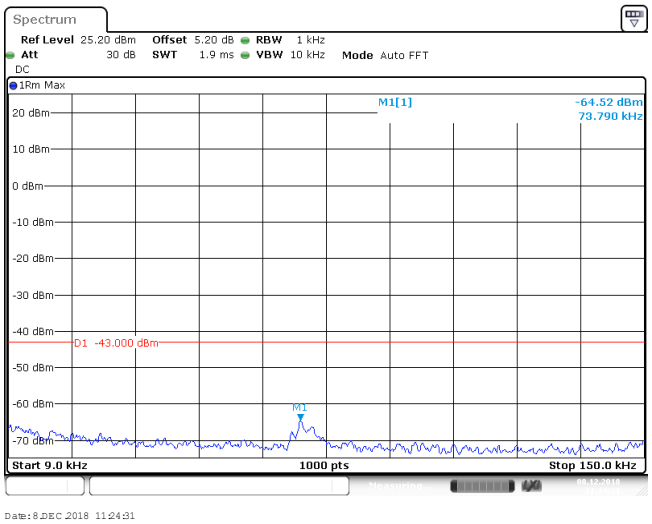

Band V_4233

# 6. Spurious Emission at Antenna Terminal

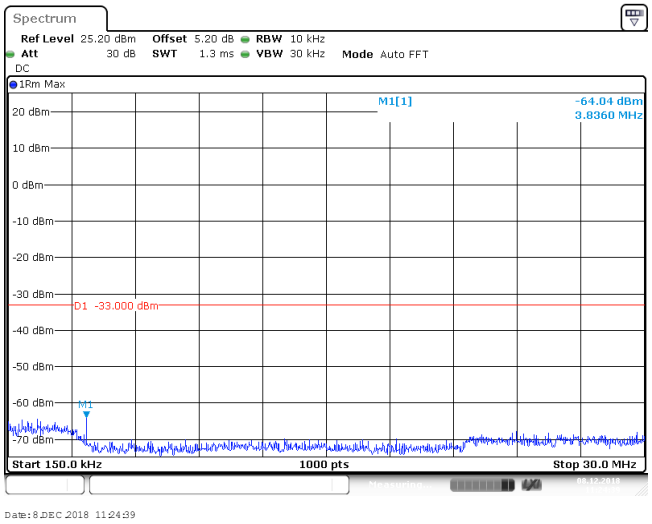
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k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

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

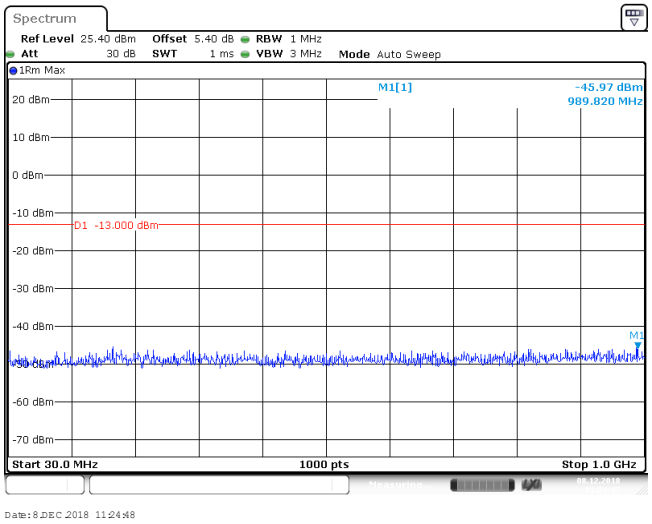
## 6.1. Test Plots



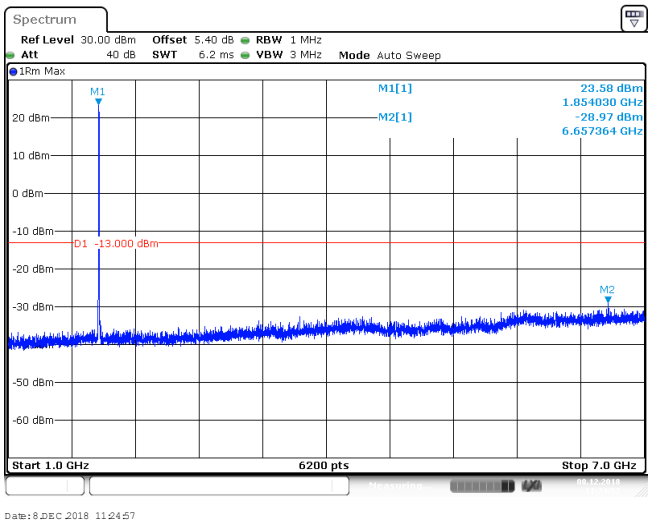

Band II_9262



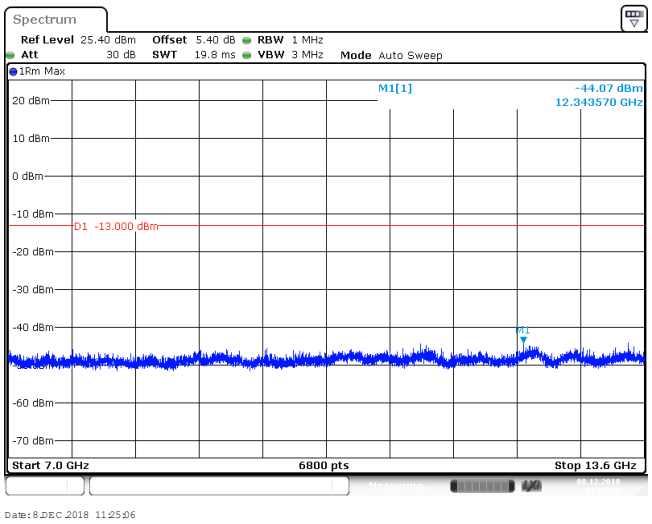

Band II_9262



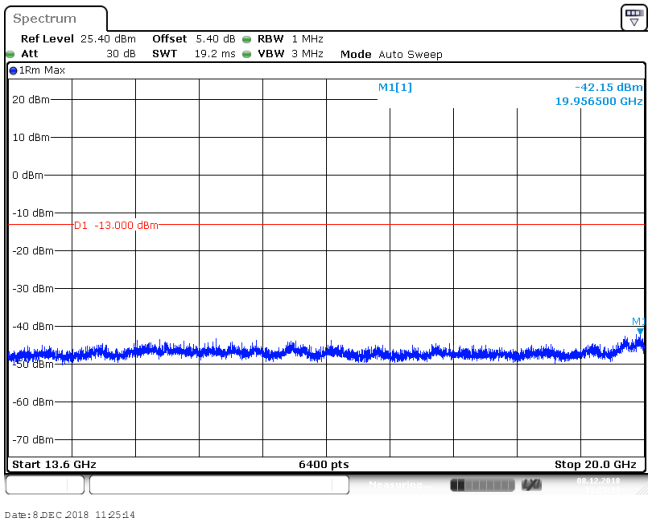

Band II_9262



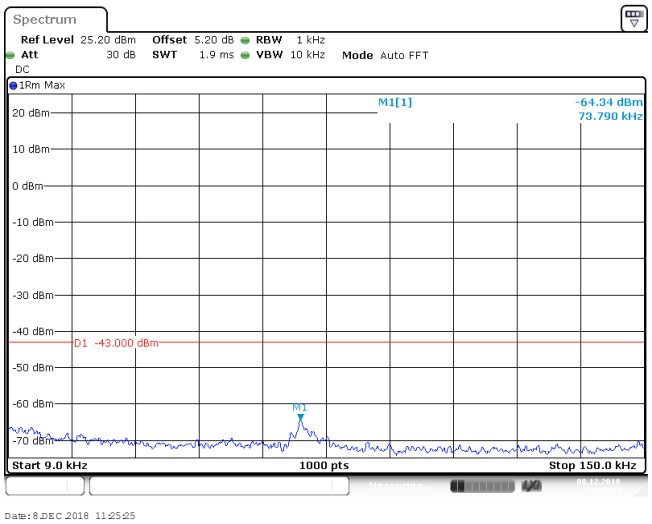

Band II_9262



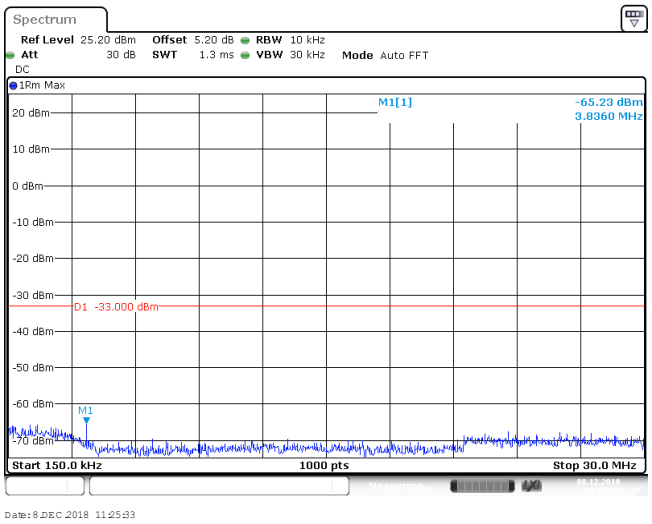

Band II_9262



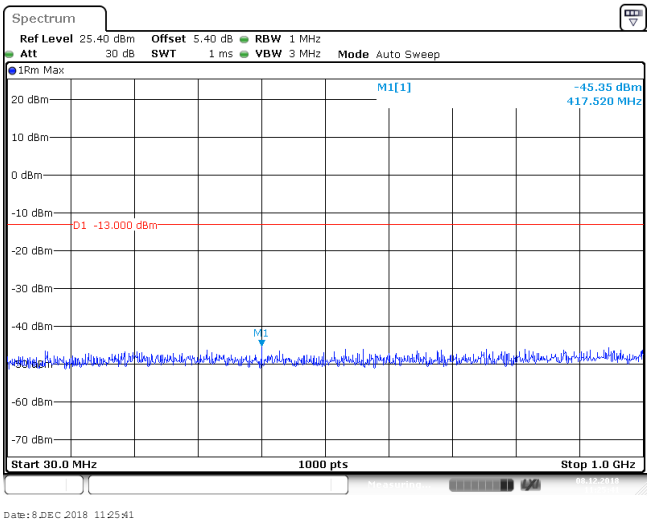

Band II_9262



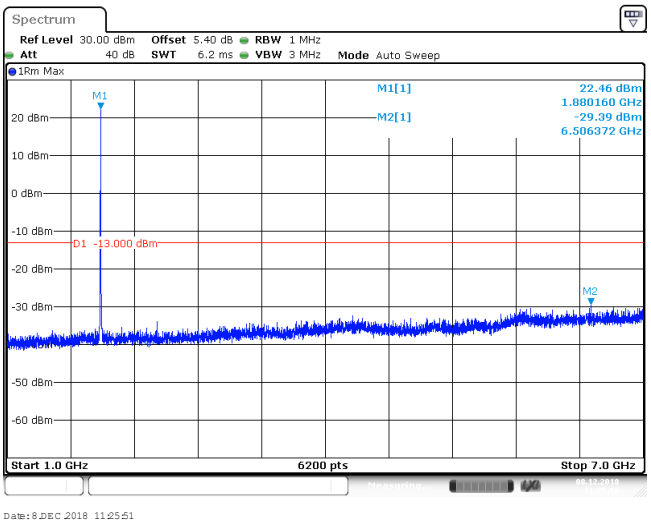

Band II_9400



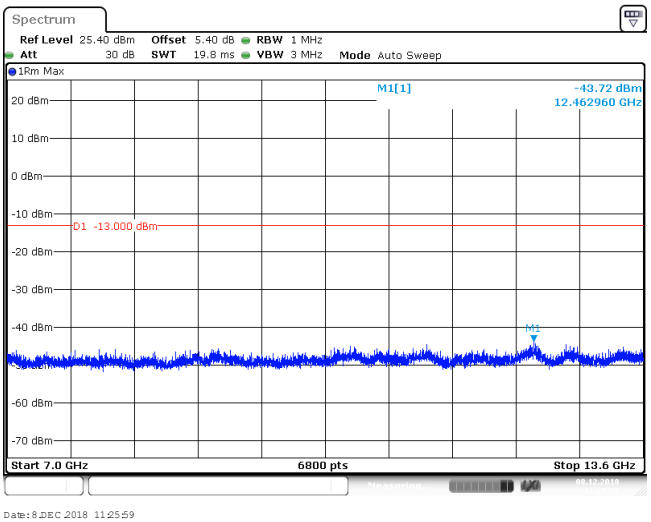

Band II_9400



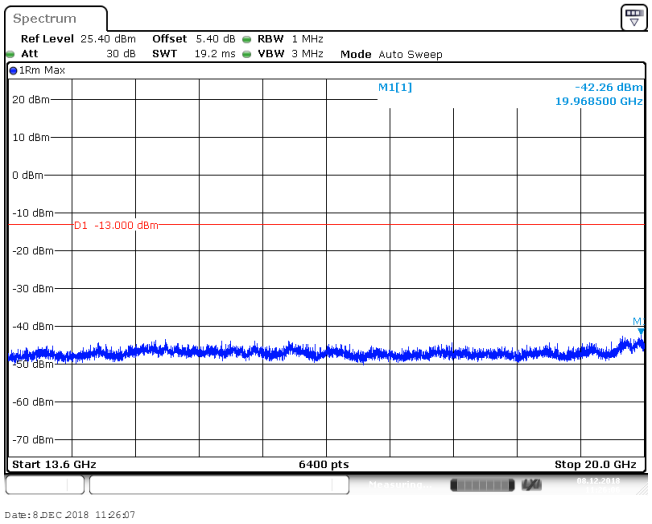

Band II_9400



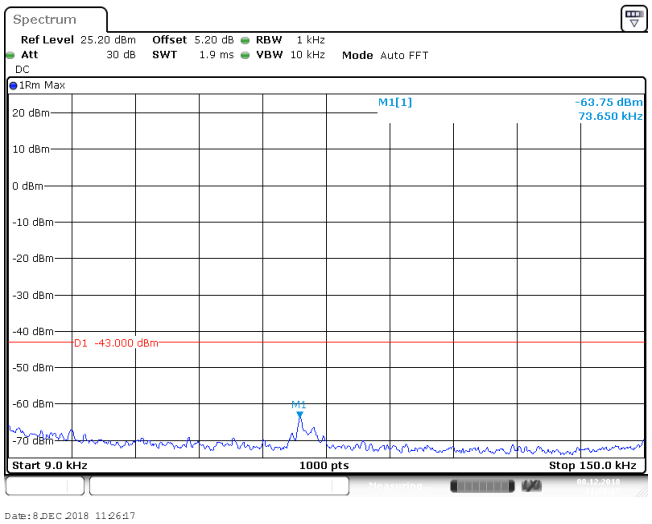

Band II_9400



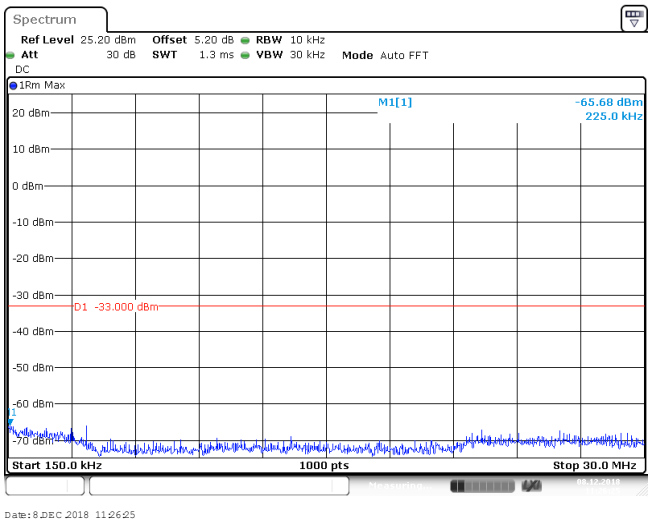

Band II_9400



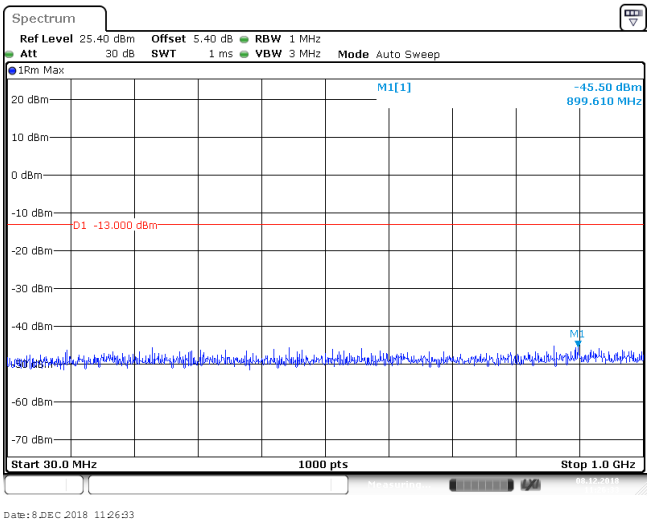

Band II_9400



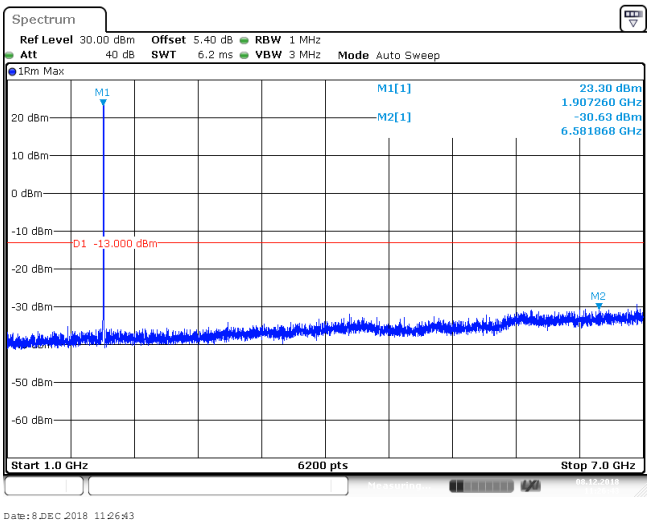

Band II_9538




Band II_9538




Band II_9538

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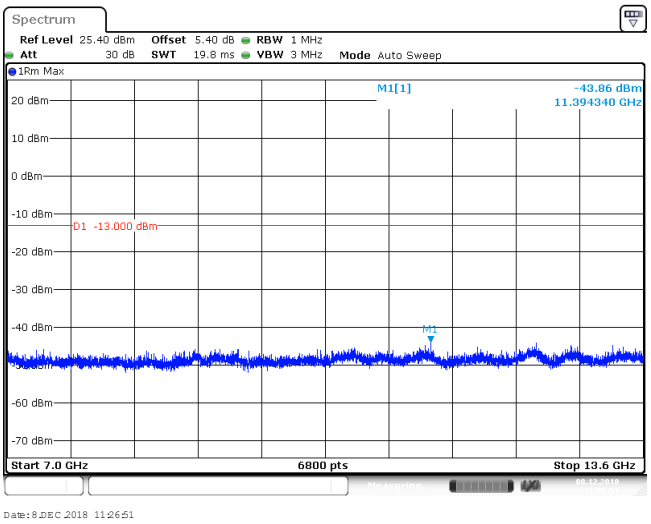
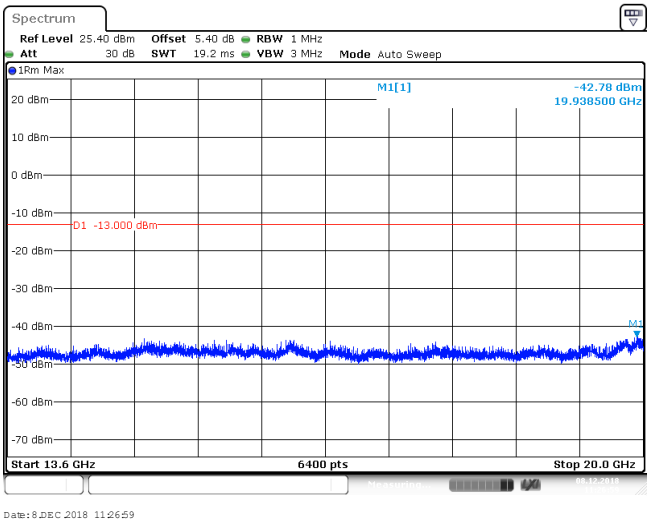
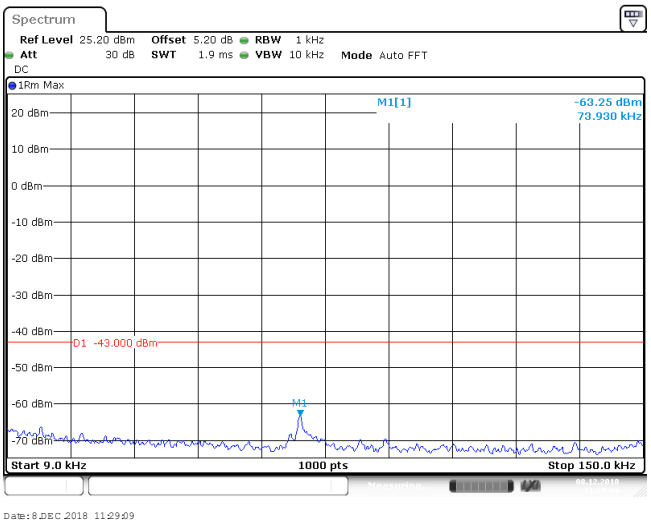


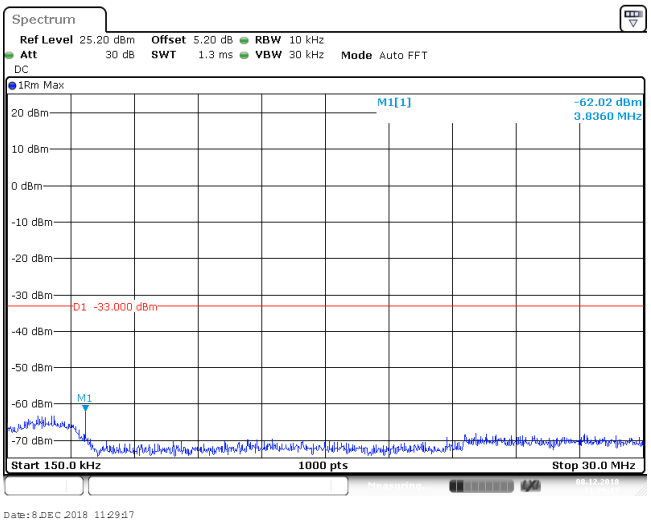

Band II_9538



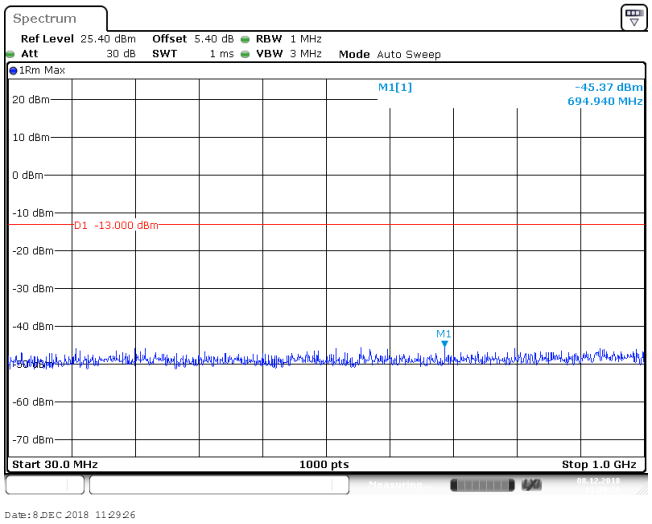

Band II_9538



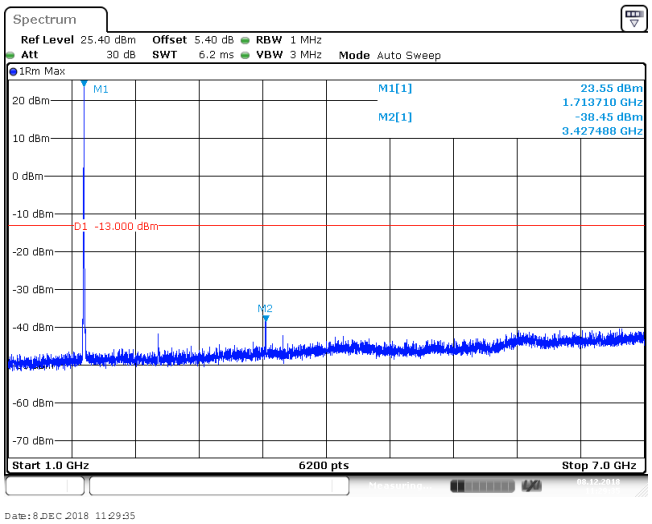

Band IV_1312



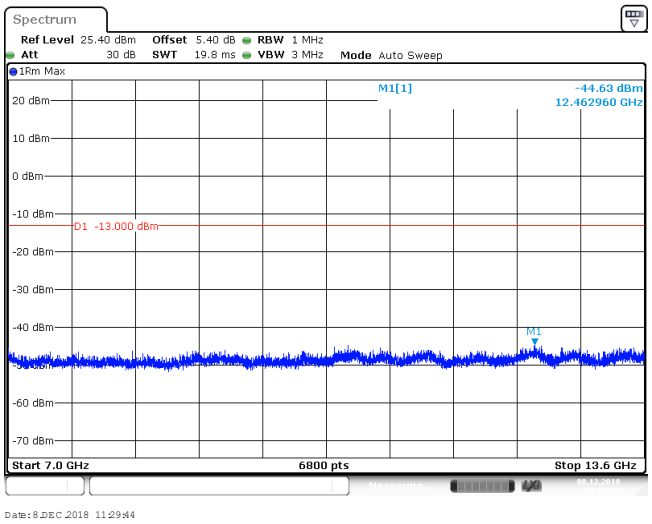

Band IV_1312



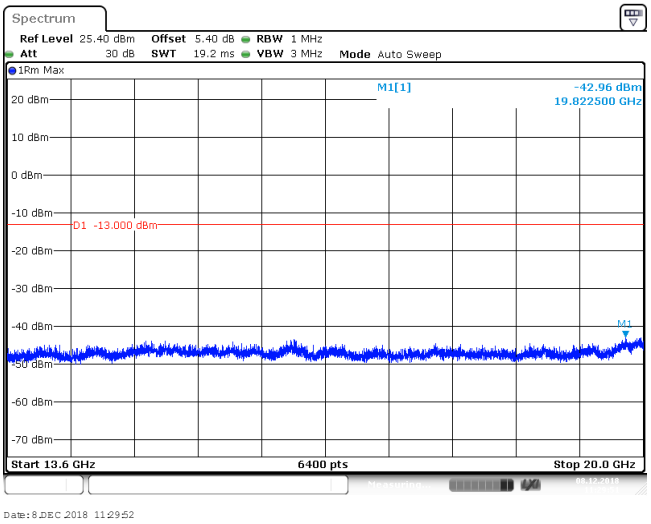

Band IV_1312



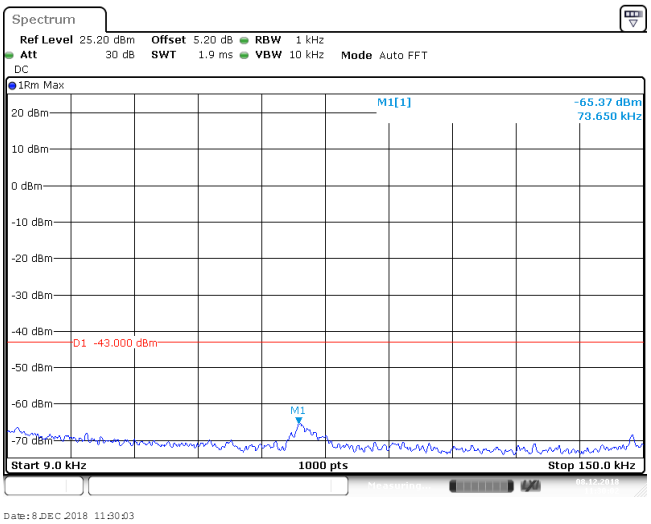

Band IV_1312



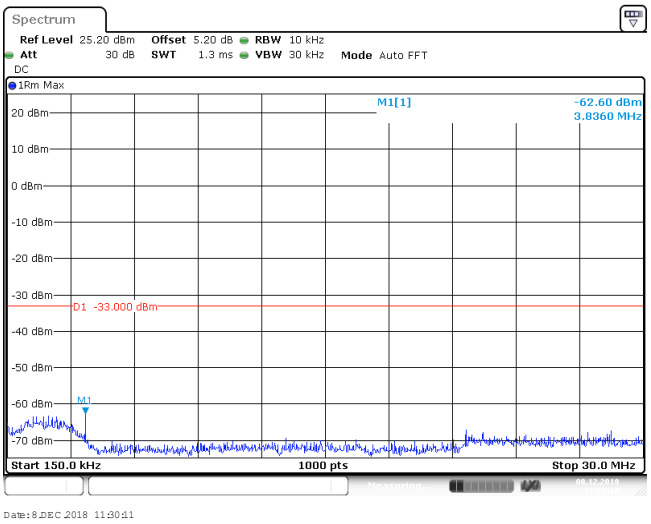

Band IV_1312



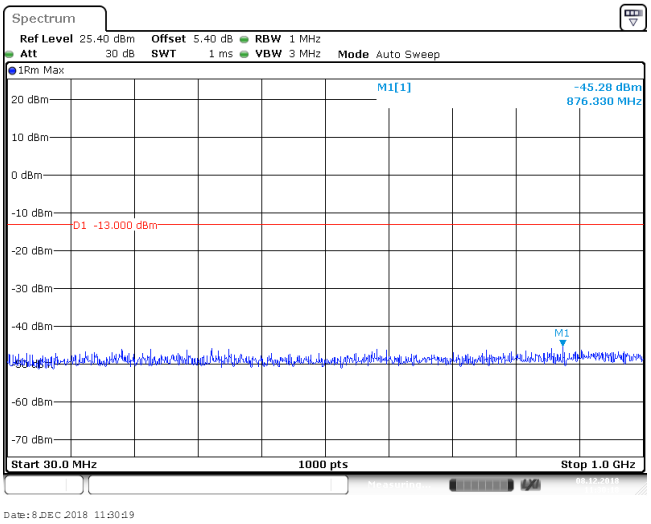

Band IV_1312



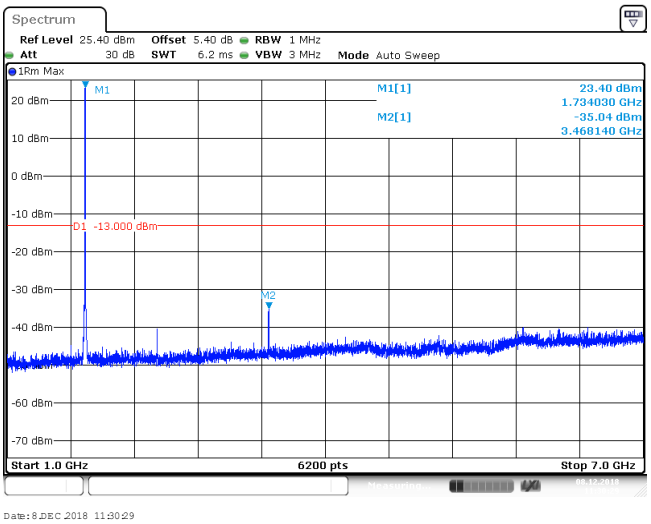

Band IV_1413



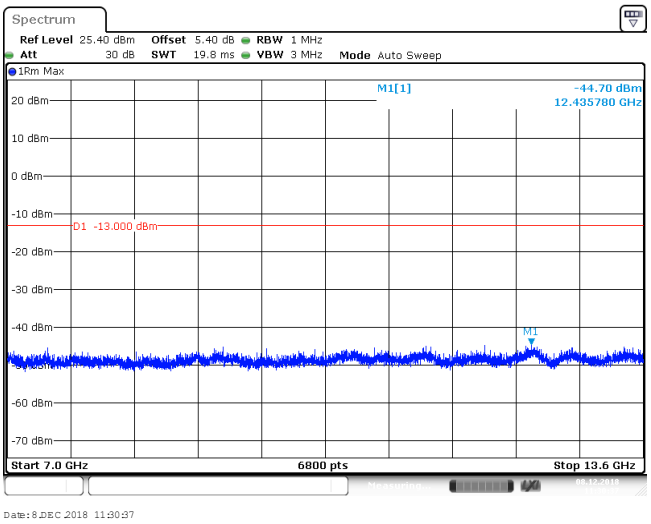

Band IV_1413



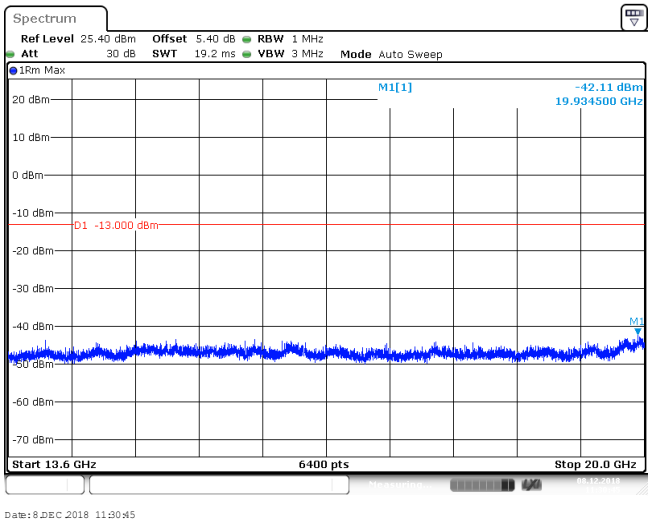

Band IV_1413



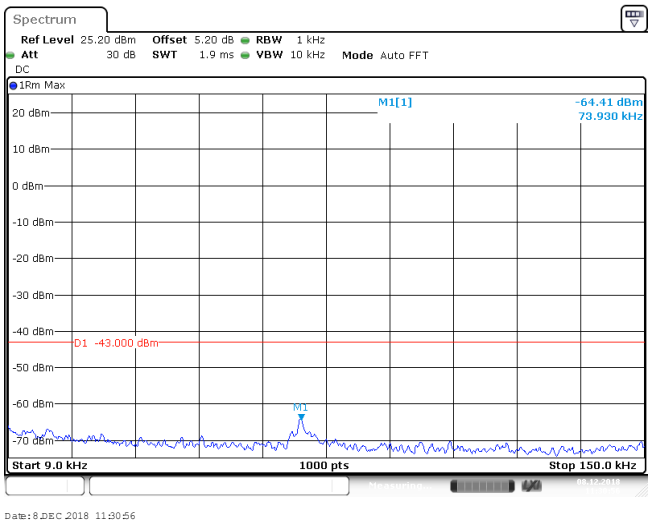

Band IV_1413



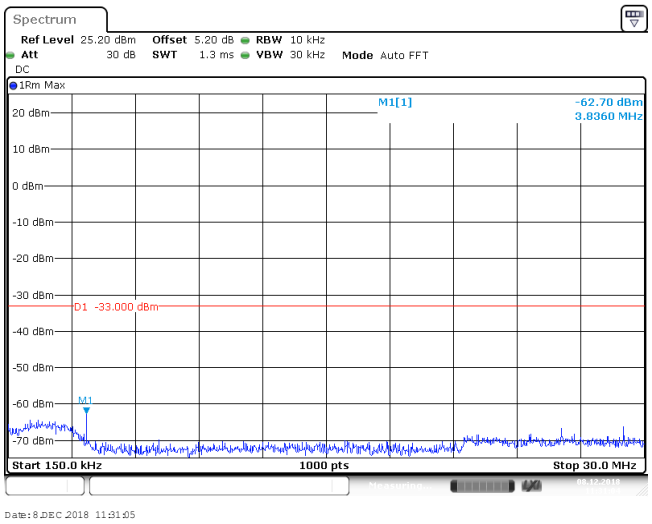

Band IV_1413



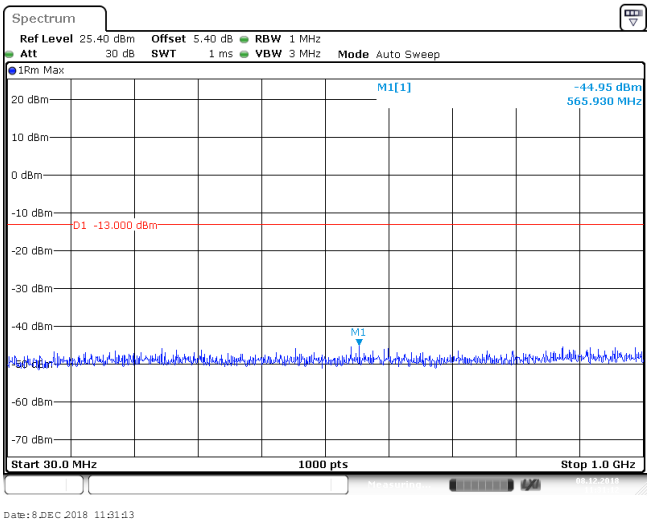

Band IV_1413



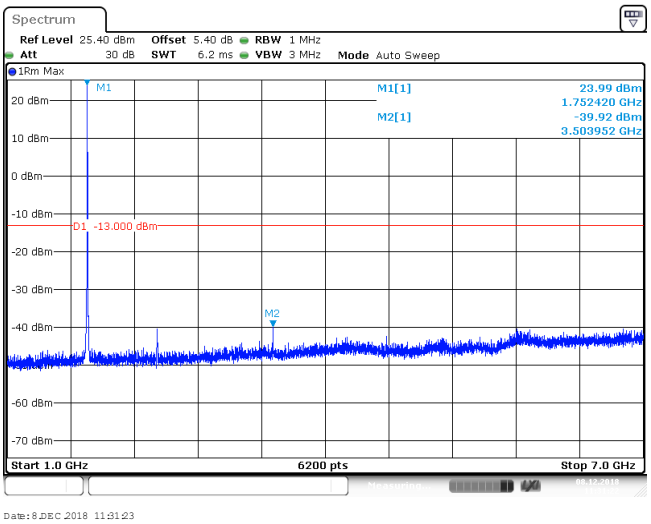

Band IV_1513



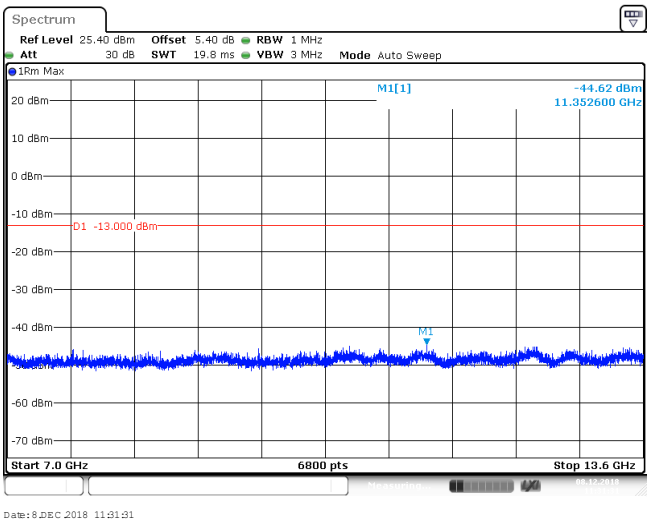

Band IV_1513



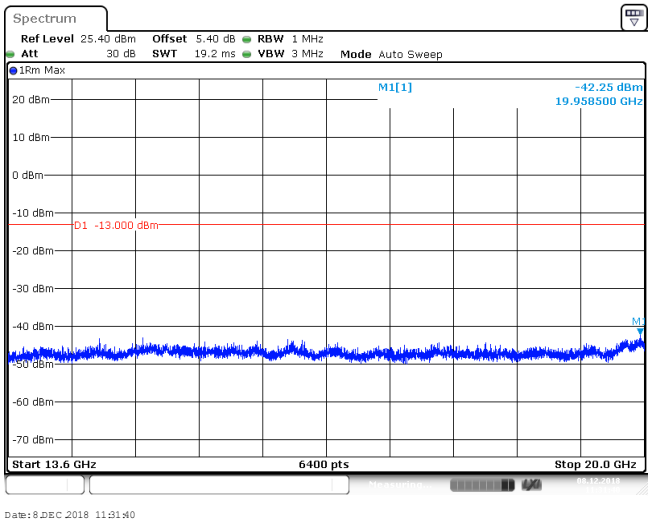

Band IV_1513



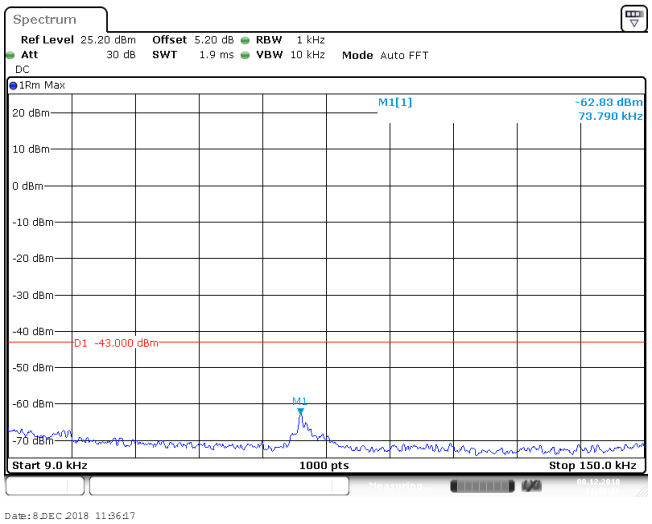

Band IV_1513



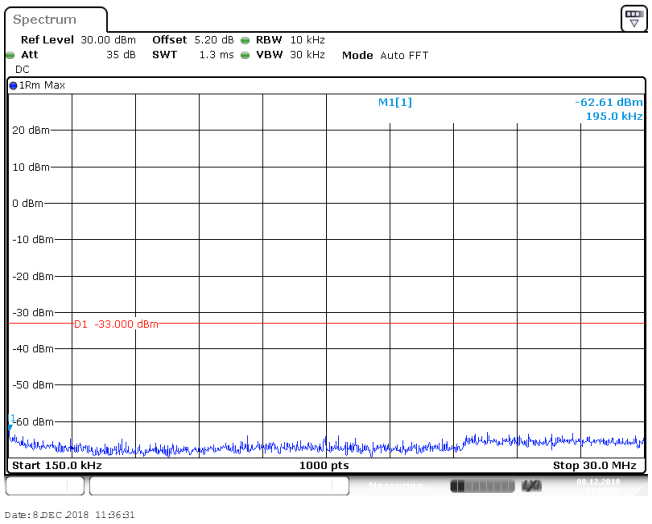

Band IV_1513



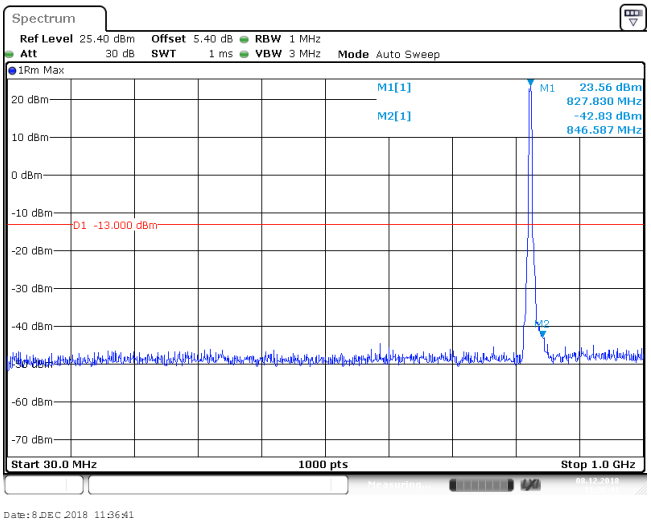

Band IV_1513



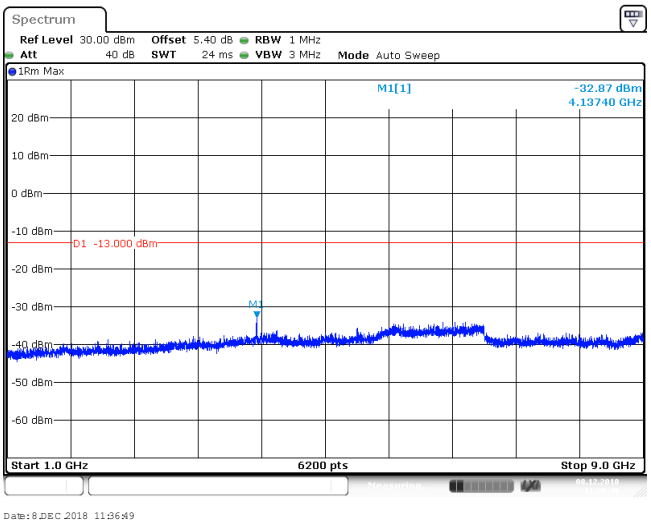

Band V_4132



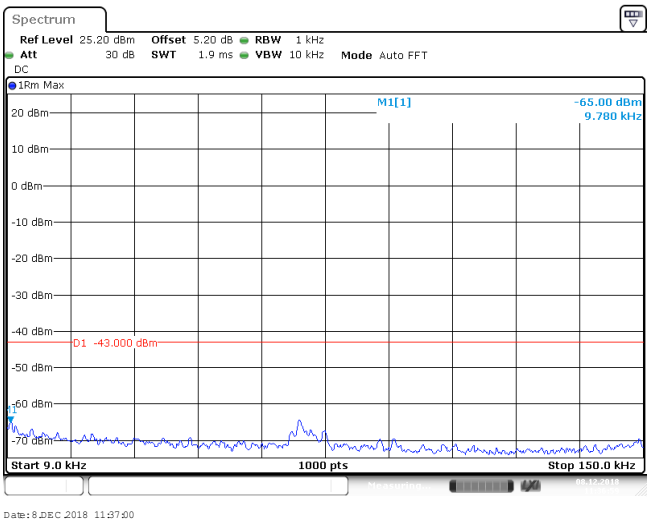

Band V_4132



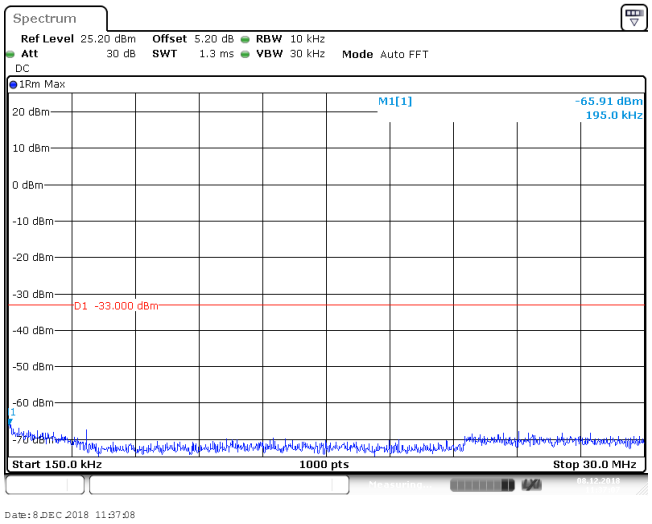

Band V_4132



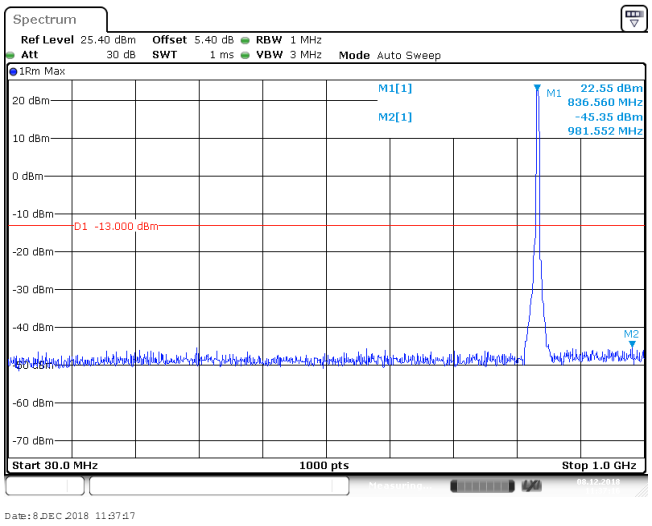

Band V_4132



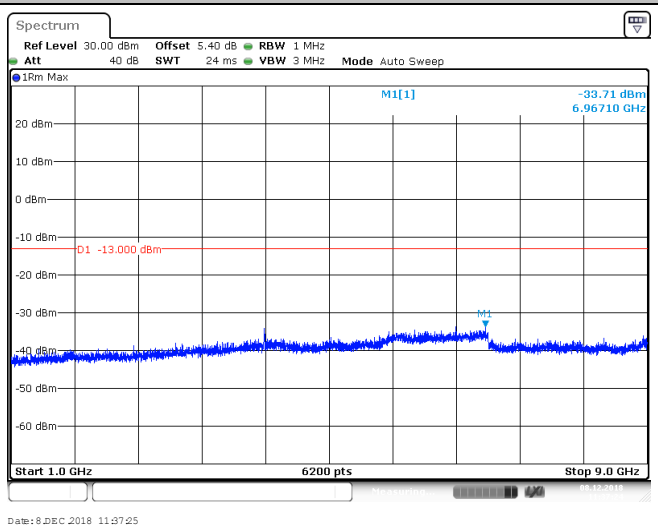

Band V_4182



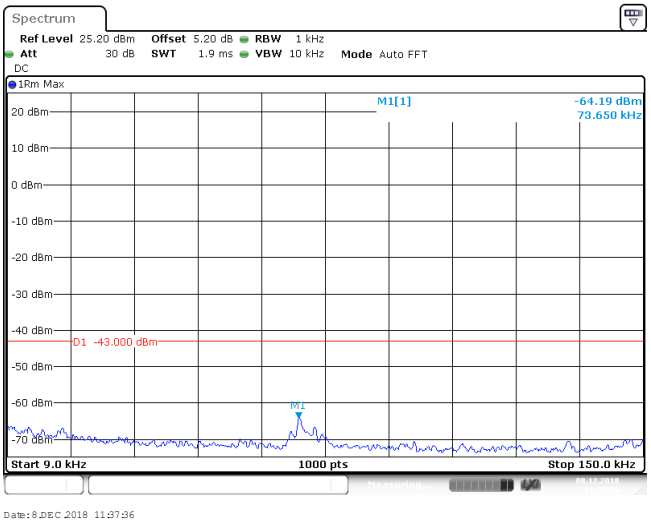

Band V_4182



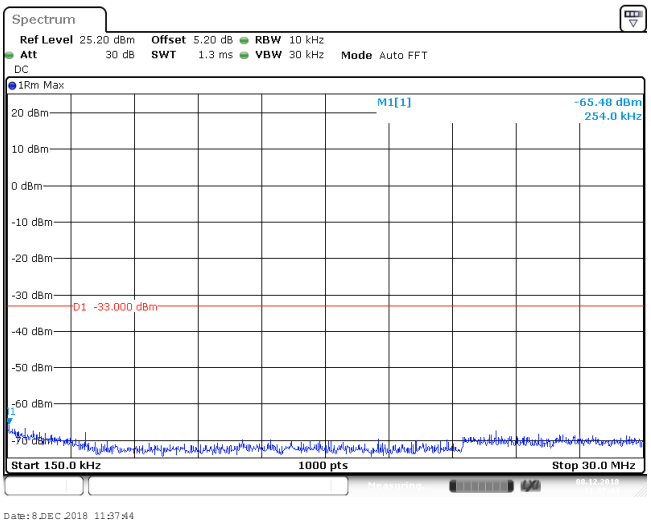

Band V_4182



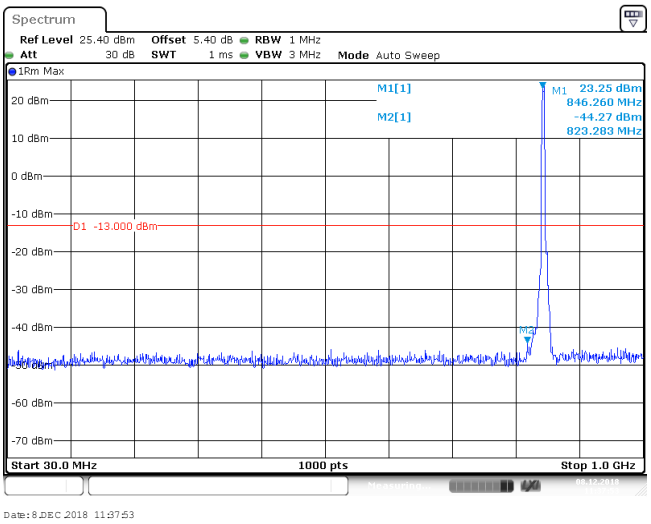

Band V_4182



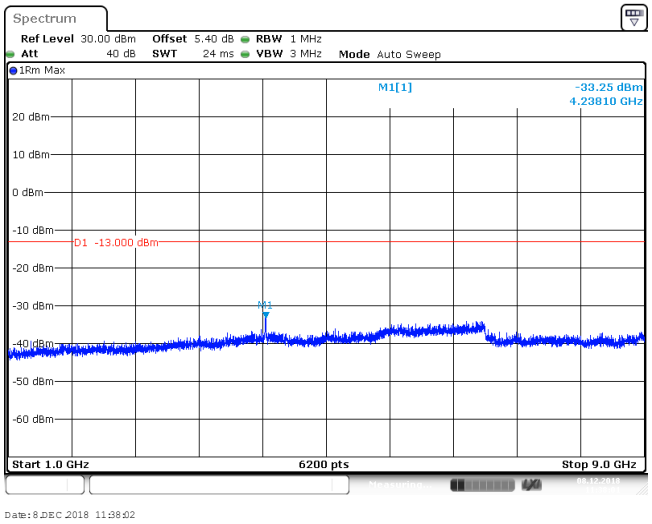

Band V_4233




Band V_4233




Band V_4233




Band V_4233

# 7. Field Strength of Spurious Radiation

**Part I - Test Plots**

## 7.1. For WCDMA

### 7.1.1. Test Band = WCDMA BAND II

#### 7.1.1.1. Test Mode = UMTS/TM1

##### 7.1.1.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|
| 74.250000 | -75.09 | -13.00 | 62.09 | Vertical |
| 204.300000 | -76.34 | -13.00 | 63.34 | Vertical |
| 612.525000 | -83.95 | -13.00 | 70.95 | Vertical |
| 3705.900000 | -63.18 | -13.00 | 50.18 | Vertical |
| 5559.862500 | -64.86 | -13.00 | 51.86 | Vertical |
| 9258.037500 | -63.35 | -13.00 | 50.35 | Vertical |
| 62.500000 | -77.21 | -13.00 | 64.21 | Horizontal |
| 204.750000 | -71.23 | -13.00 | 58.23 | Horizontal |
| 624.670833 | -83.20 | -13.00 | 70.20 | Horizontal |
| 3705.900000 | -62.59 | -13.00 | 49.59 | Horizontal |
| 5559.862500 | -54.07 | -13.00 | 41.07 | Horizontal |
| 9248.775000 | -63.42 | -13.00 | 50.42 | Horizontal |

##### 7.1.1.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|
| 73.450000 | -75.99 | -13.00 | 62.99 | Vertical |
| 203.650000 | -75.87 | -13.00 | 62.87 | Vertical |
| 3758.062500 | -65.91 | -13.00 | 52.91 | Vertical |
| 4301.137500 | -61.63 | -13.00 | 48.63 | Vertical |
| 5642.737500 | -65.60 | -13.00 | 52.60 | Vertical |
| 9249.262500 | -63.16 | -13.00 | 50.16 | Vertical |
| 62.750000 | -76.78 | -13.00 | 63.78 | Horizontal |
| 202.700000 | -70.09 | -13.00 | 57.09 | Horizontal |
| 616.466667 | -82.61 | -13.00 | 69.61 | Horizontal |
| 3760.987500 | -64.74 | -13.00 | 51.74 | Horizontal |
| 6017.137500 | -64.95 | -13.00 | 51.95 | Horizontal |
| 10630.350000 | -62.18 | -13.00 | 49.18 | Horizontal |

#### 7.1.1.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|
| 74.650000 | -75.13 | -13.00 | 62.13 | Vertical |
| 204.500000 | -76.17 | -13.00 | 63.17 | Vertical |
| 593.091667 | -84.56 | -13.00 | 71.56 | Vertical |
| 3813.637500 | -54.00 | -13.00 | 41.00 | Vertical |
| 5725.612500 | -66.49 | -13.00 | 53.49 | Vertical |
| 9240.975000 | -63.68 | -13.00 | 50.68 | Vertical |
| 62.400000 | -77.41 | -13.00 | 64.41 | Horizontal |
| 204.150000 | -71.43 | -13.00 | 58.43 | Horizontal |
| 600.791667 | -83.65 | -13.00 | 70.65 | Horizontal |
| 3816.562500 | -66.84 | -13.00 | 53.84 | Horizontal |
| 5725.612500 | -66.57 | -13.00 | 53.57 | Horizontal |
| 9543.225000 | -63.87 | -13.00 | 50.87 | Horizontal |

### 7.1.2. Test Band = WCDMA BAND IV

### 7.1.2.1. Test Mode = UMTS/TM1

#### 7.1.2.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|
| 74.050000 | -75.98 | -13.00 | 62.98 | Vertical |
| 204.150000 | -76.94 | -13.00 | 63.94 | Vertical |
| 602.762500 | -84.26 | -13.00 | 71.26 | Vertical |
| 3426.075000 | -64.50 | -13.00 | 51.50 | Vertical |
| 6065.400000 | -65.47 | -13.00 | 52.47 | Vertical |
| 10663.012500 | -63.36 | -13.00 | 50.36 | Vertical |
| 62.300000 | -77.19 | -13.00 | 64.19 | Horizontal |
| 204.000000 | -71.70 | -13.00 | 58.70 | Horizontal |
| 532.958333 | -83.87 | -13.00 | 70.87 | Horizontal |
| 3423.150000 | -63.01 | -13.00 | 50.01 | Horizontal |
| 6852.712500 | -64.12 | -13.00 | 51.12 | Horizontal |
| 10642.050000 | -63.12 | -13.00 | 50.12 | Horizontal |

### 7.1.2.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|
| 74.300000 | -75.30 | -13.00 | 62.30 | Vertical |
| 204.200000 | -76.45 | -13.00 | 63.45 | Vertical |
| 614.679167 | -84.19 | -13.00 | 71.19 | Vertical |
| 3463.125000 | -63.65 | -13.00 | 50.65 | Vertical |
| 6057.600000 | -65.18 | -13.00 | 52.18 | Vertical |
| 10630.837500 | -63.02 | -13.00 | 50.02 | Vertical |
| 63.650000 | -76.72 | -13.00 | 63.72 | Horizontal |
| 204.100000 | -71.31 | -13.00 | 58.31 | Horizontal |
| 614.495833 | -83.23 | -13.00 | 70.23 | Horizontal |
| 3463.612500 | -60.18 | -13.00 | 47.18 | Horizontal |
| 6023.962500 | -65.58 | -13.00 | 52.58 | Horizontal |
| 9087.412500 | -63.79 | -13.00 | 50.79 | Horizontal |

### 7.1.2.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|
| 74.950000 | -76.32 | -13.00 | 63.32 | Vertical |
| 204.150000 | -77.10 | -13.00 | 64.10 | Vertical |
| 611.058333 | -84.54 | -13.00 | 71.54 | Vertical |
| 3503.100000 | -65.82 | -13.00 | 52.82 | Vertical |
| 6051.262500 | -65.37 | -13.00 | 52.37 | Vertical |
| 9240.000000 | -63.68 | -13.00 | 50.68 | Vertical |
| 63.300000 | -76.75 | -13.00 | 63.75 | Horizontal |
| 204.200000 | -71.09 | -13.00 | 58.09 | Horizontal |
| 613.487500 | -83.15 | -13.00 | 70.15 | Horizontal |
| 3503.587500 | -63.21 | -13.00 | 50.21 | Horizontal |
| 6054.675000 | -65.25 | -13.00 | 52.25 | Horizontal |
| 9229.762500 | -63.53 | -13.00 | 50.53 | Horizontal |

### 7.1.3. Test Band = WCDMA BAND V

### 7.1.3.1. Test Mode = UMTS/TM1

#### 7.1.3.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|
| 74.750000 | -77.36 | -13.00 | 64.36 | Vertical |
| 204.500000 | -77.46 | -13.00 | 64.46 | Vertical |
| 1651.000000 | -55.35 | -13.00 | 42.35 | Vertical |
| 2482.000000 | -54.69 | -13.00 | 41.69 | Vertical |
| 4136.362500 | -46.16 | -13.00 | 33.16 | Vertical |
| 4963.650000 | -61.03 | -13.00 | 48.03 | Vertical |
| 204.600000 | -70.57 | -13.00 | 57.57 | Horizontal |
| 1651.000000 | -59.93 | -13.00 | 46.93 | Horizontal |
| 2482.000000 | -54.33 | -13.00 | 41.33 | Horizontal |
| 4136.362500 | -48.53 | -13.00 | 35.53 | Horizontal |
| 4964.137500 | -60.02 | -13.00 | 47.02 | Horizontal |
| 7446.487500 | -61.43 | -13.00 | 48.43 | Horizontal |

#### 7.1.3.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|
| 74.250000 | -76.02 | -13.00 | 63.02 | Vertical |
| 204.250000 | -76.59 | -13.00 | 63.59 | Vertical |
| 1674.500000 | -55.50 | -13.00 | 42.50 | Vertical |
| 2506.500000 | -56.78 | -13.00 | 43.78 | Vertical |
| 4186.087500 | -51.51 | -13.00 | 38.51 | Vertical |
| 5016.300000 | -65.22 | -13.00 | 52.22 | Vertical |
| 204.900000 | -70.96 | -13.00 | 57.96 | Horizontal |
| 1674.500000 | -60.23 | -13.00 | 47.23 | Horizontal |
| 2506.500000 | -56.82 | -13.00 | 43.82 | Horizontal |
| 4186.087500 | -54.37 | -13.00 | 41.37 | Horizontal |
| 5024.100000 | -64.50 | -13.00 | 51.50 | Horizontal |
| 7536.187500 | -63.14 | -13.00 | 50.14 | Horizontal |

### 7.1.3.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|
| 204.200000 | -74.99 | -13.00 | 61.99 | Vertical |
| 1691.500000 | -56.73 | -13.00 | 43.73 | Vertical |
| 2537.000000 | -57.34 | -13.00 | 44.34 | Vertical |
| 3381.712500 | -68.04 | -13.00 | 55.04 | Vertical |
| 4228.500000 | -49.00 | -13.00 | 36.00 | Vertical |
| 5073.337500 | -65.54 | -13.00 | 52.54 | Vertical |
| 204.450000 | -70.91 | -13.00 | 57.91 | Horizontal |
| 1691.500000 | -61.60 | -13.00 | 48.60 | Horizontal |
| 2536.500000 | -57.85 | -13.00 | 44.85 | Horizontal |
| 4228.500000 | -50.74 | -13.00 | 37.74 | Horizontal |
| 5073.337500 | -63.87 | -13.00 | 50.87 | Horizontal |
| 7609.312500 | -61.17 | -13.00 | 48.17 | Horizontal |

Remark:

1) The disturbance above 12.75GHz and 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 | Channel | Voltage (Vdc) | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band II | 9262 | VL | TN | -12.83 | -0.006927 | ±2.5 | PASS |
| Band II | 9262 | VN | TN | -9.18 | -0.004958 | ±2.5 | PASS |
| Band II | 9262 | VH | TN | -12.43 | -0.006711 | ±2.5 | PASS |
| Band II | 9400 | VL | TN | -13.40 | -0.007130 | ±2.5 | PASS |
| Band II | 9400 | VN | TN | -17.80 | -0.009470 | ±2.5 | PASS |
| Band II | 9400 | VH | TN | -10.70 | -0.005692 | ±2.5 | PASS |
| Band II | 9538 | VL | TN | -14.23 | -0.007458 | ±2.5 | PASS |
| Band II | 9538 | VN | TN | -8.40 | -0.004406 | ±2.5 | PASS |
| Band II | 9538 | VH | TN | -7.00 | -0.003667 | ±2.5 | PASS |
| Band IV | 1312 | VL | TN | -16.89 | -0.020435 | ±2.5 | PASS |
| Band IV | 1312 | VN | TN | -11.92 | -0.014419 | ±2.5 | PASS |
| Band IV | 1312 | VH | TN | -6.55 | -0.003826 | ±2.5 | PASS |
| Band IV | 1413 | VL | TN | -15.81 | -0.009123 | ±2.5 | PASS |
| Band IV | 1413 | VN | TN | -8.65 | -0.004991 | ±2.5 | PASS |
| Band IV | 1413 | VH | TN | -16.66 | -0.009615 | ±2.5 | PASS |
| Band IV | 1513 | VL | TN | -6.57 | -0.003746 | ±2.5 | PASS |
| Band IV | 1513 | VN | TN | -4.73 | -0.002698 | ±2.5 | PASS |
| Band IV | 1513 | VH | TN | -2.78 | -0.001588 | ±2.5 | PASS |
| Band V | 4132 | VL | TN | -8.58 | -0.010386 | ±2.5 | PASS |
| Band V | 4132 | VN | TN | -8.23 | -0.009962 | ±2.5 | PASS |
| Band V | 4132 | VH | TN | -11.38 | -0.013770 | ±2.5 | PASS |
| Band V | 4182 | VL | TN | -14.24 | -0.017026 | ±2.5 | PASS |
| Band V | 4182 | VN | TN | -14.03 | -0.016778 | ±2.5 | PASS |
| Band V | 4182 | VH | TN | -12.79 | -0.015290 | ±2.5 | PASS |
| Band V | 4233 | VL | TN | -5.72 | -0.006759 | ±2.5 | PASS |
| Band V | 4233 | VN | TN | -3.18 | -0.003760 | ±2.5 | PASS |
| Band V | 4233 | VH | TN | -7.95 | -0.009386 | ±2.5 | PASS |

## 8.2. Frequency Vs Temperature

| Temperature | | | | | | | |
|---|---|---|---|---|---|---|---|
| BAND | Channel | Voltage (Vdc) | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band II | 9262 | VN | -30 | -13.45 | -0.007259 | ±2.5 | PASS |
| Band II | 9262 | VN | -20 | -10.44 | -0.005634 | ±2.5 | PASS |
| Band II | 9262 | VN | -10 | -11.32 | -0.006108 | ±2.5 | PASS |
| Band II | 9262 | VN | 0 | -5.82 | -0.003139 | ±2.5 | PASS |
| Band II | 9262 | VN | 10 | -7.54 | -0.004070 | ±2.5 | PASS |
| Band II | 9262 | VN | 20 | -12.92 | -0.006977 | ±2.5 | PASS |
| Band II | 9262 | VN | 30 | -16.31 | -0.008804 | ±2.5 | PASS |
| Band II | 9262 | VN | 40 | -11.83 | -0.006386 | ±2.5 | PASS |
| Band II | 9262 | VN | 50 | -11.43 | -0.006170 | ±2.5 | PASS |
| Band II | 9400 | VN | -30 | -14.20 | -0.007552 | ±2.5 | PASS |

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|---|---|---|---|---|---|---|---|
| Band II | 9400 | VN | -20 | -10.10 | -0.005372 | ±2.5 | PASS |
| Band II | 9400 | VN | -10 | -15.82 | -0.008416 | ±2.5 | PASS |
| Band II | 9400 | VN | 0 | -14.34 | -0.007628 | ±2.5 | PASS |
| Band II | 9400 | VN | 10 | -13.90 | -0.007396 | ±2.5 | PASS |
| Band II | 9400 | VN | 20 | -11.92 | -0.006338 | ±2.5 | PASS |
| Band II | 9400 | VN | 30 | -11.47 | -0.006099 | ±2.5 | PASS |
| Band II | 9400 | VN | 40 | -11.10 | -0.005905 | ±2.5 | PASS |
| Band II | 9400 | VN | 50 | -6.27 | -0.003337 | ±2.5 | PASS |
| Band II | 9538 | VN | -30 | -6.96 | -0.003648 | ±2.5 | PASS |
| Band II | 9538 | VN | -20 | -13.20 | -0.006918 | ±2.5 | PASS |
| Band II | 9538 | VN | -10 | -13.95 | -0.007315 | ±2.5 | PASS |
| Band II | 9538 | VN | 0 | -12.03 | -0.006307 | ±2.5 | PASS |
| Band II | 9538 | VN | 10 | -15.37 | -0.008058 | ±2.5 | PASS |
| Band II | 9538 | VN | 20 | -11.97 | -0.006277 | ±2.5 | PASS |
| Band II | 9538 | VN | 30 | -10.36 | -0.005429 | ±2.5 | PASS |
| Band II | 9538 | VN | 40 | -11.96 | -0.006269 | ±2.5 | PASS |
| Band II | 9538 | VN | 50 | -11.18 | -0.005860 | ±2.5 | PASS |
| Band IV | 1312 | VN | -30 | -10.20 | -0.005956 | ±2.5 | PASS |
| Band IV | 1312 | VN | -20 | -11.97 | -0.006992 | ±2.5 | PASS |
| Band IV | 1312 | VN | -10 | -10.74 | -0.006270 | ±2.5 | PASS |
| Band IV | 1312 | VN | 0 | -13.13 | -0.007669 | ±2.5 | PASS |
| Band IV | 1312 | VN | 10 | -15.62 | -0.009122 | ±2.5 | PASS |
| Band IV | 1312 | VN | 20 | -17.40 | -0.010162 | ±2.5 | PASS |
| Band IV | 1312 | VN | 30 | -12.45 | -0.007268 | ±2.5 | PASS |
| Band IV | 1312 | VN | 40 | -13.80 | -0.008057 | ±2.5 | PASS |
| Band IV | 1312 | VN | 50 | -11.38 | -0.006645 | ±2.5 | PASS |
| Band IV | 1413 | VN | -30 | -11.07 | -0.006390 | ±2.5 | PASS |
| Band IV | 1413 | VN | -20 | -11.32 | -0.006535 | ±2.5 | PASS |
| Band IV | 1413 | VN | -10 | -12.50 | -0.007212 | ±2.5 | PASS |
| Band IV | 1413 | VN | 0 | -14.82 | -0.008554 | ±2.5 | PASS |
| Band IV | 1413 | VN | 10 | -13.68 | -0.007893 | ±2.5 | PASS |
| Band IV | 1413 | VN | 20 | -12.13 | -0.007001 | ±2.5 | PASS |
| Band IV | 1413 | VN | 30 | -13.21 | -0.007625 | ±2.5 | PASS |
| Band IV | 1413 | VN | 40 | -13.21 | -0.007625 | ±2.5 | PASS |
| Band IV | 1413 | VN | 50 | -14.45 | -0.008339 | ±2.5 | PASS |
| Band IV | 1513 | VN | -30 | -3.87 | -0.002208 | ±2.5 | PASS |
| Band IV | 1513 | VN | -20 | -10.56 | -0.006024 | ±2.5 | PASS |
| Band IV | 1513 | VN | -10 | -7.68 | -0.004383 | ±2.5 | PASS |
| Band IV | 1513 | VN | 0 | -12.17 | -0.006942 | ±2.5 | PASS |
| Band IV | 1513 | VN | 10 | -6.15 | -0.003510 | ±2.5 | PASS |
| Band IV | 1513 | VN | 20 | -9.13 | -0.005212 | ±2.5 | PASS |
| Band IV | 1513 | VN | 30 | -9.34 | -0.005330 | ±2.5 | PASS |
| Band IV | 1513 | VN | 40 | -12.95 | -0.007391 | ±2.5 | PASS |
| Band IV | 1513 | VN | 50 | -14.49 | -0.008268 | ±2.5 | PASS |
| Band V | 4132 | VN | -30 | -12.30 | -0.014887 | ±2.5 | PASS |
| Band V | 4132 | VN | -20 | -4.51 | -0.005461 | ±2.5 | PASS |
| Band V | 4132 | VN | -10 | -5.52 | -0.006682 | ±2.5 | PASS |
| Band V | 4132 | VN | 0 | -8.70 | -0.010533 | ±2.5 | PASS |
| Band V | 4132 | VN | 10 | -11.05 | -0.013372 | ±2.5 | PASS |
| Band V | 4132 | VN | 20 | -7.12 | -0.008612 | ±2.5 | PASS |
| Band V | 4132 | VN | 30 | -8.91 | -0.010784 | ±2.5 | PASS |

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|---|---|---|---|---|---|---|---|
| Band V | 4132 | VN | 40 | -13.78 | -0.016670 | ±2.5 | PASS |
| Band V | 4132 | VN | 50 | -9.89 | -0.011970 | ±2.5 | PASS |
| Band V | 4182 | VN | -30 | -11.29 | -0.013494 | ±2.5 | PASS |
| Band V | 4182 | VN | -20 | -10.44 | -0.012485 | ±2.5 | PASS |
| Band V | 4182 | VN | -10 | -14.14 | -0.016907 | ±2.5 | PASS |
| Band V | 4182 | VN | 0 | -8.24 | -0.009851 | ±2.5 | PASS |
| Band V | 4182 | VN | 10 | -7.95 | -0.009509 | ±2.5 | PASS |
| Band V | 4182 | VN | 20 | -12.09 | -0.014452 | ±2.5 | PASS |
| Band V | 4182 | VN | 30 | -6.88 | -0.008227 | ±2.5 | PASS |
| Band V | 4182 | VN | 40 | -12.03 | -0.014384 | ±2.5 | PASS |
| Band V | 4182 | VN | 50 | -11.64 | -0.013913 | ±2.5 | PASS |
| Band V | 4233 | VN | -30 | -12.72 | -0.015030 | ±2.5 | PASS |
| Band V | 4233 | VN | -20 | -7.31 | -0.008634 | ±2.5 | PASS |
| Band V | 4233 | VN | -10 | -9.71 | -0.011465 | ±2.5 | PASS |
| Band V | 4233 | VN | 0 | -3.86 | -0.004562 | ±2.5 | PASS |
| Band V | 4233 | VN | 10 | -5.36 | -0.006328 | ±2.5 | PASS |
| Band V | 4233 | VN | 20 | -7.90 | -0.009327 | ±2.5 | PASS |
| Band V | 4233 | VN | 30 | -9.50 | -0.011220 | ±2.5 | PASS |
| Band V | 4233 | VN | 40 | -6.98 | -0.008246 | ±2.5 | PASS |
| Band V | 4233 | VN | 50 | -8.75 | -0.010341 | ±2.5 | PASS |

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