

## 9. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

### 9.1. Standard Applicable

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53 (h)

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

#### FCC §27.53(c) for LTE B13

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least  $43 + 10 \log(P)$  dB (-13dBm)

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than  $65 + 10 \log(P)$  dB in a 6.25 kHz band segment, for mobile and portable stations;

#### FCC §27.53 (f) for LTE B13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

#### FCC §27.53(c) (5) & FCC §27.53(g) for LTE B12, 13

Compliance for operations in the 600 MHz, 698-746 MHz, 746-758 MHz and the 776-788 MHz band with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

#### FCC §27.53(h)(3) for LTE B4

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

#### FCC §27.53(m) (4) (6) for LTE B7, 38, 41

For mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log(P)$  dB on all fre-

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quencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log (P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

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**Table 2 — Unwanted Emissions for Mobile, Portable and Low-Power Fixed Subscriber Equipment**

| Frequency (MHz) | Attenuation (dB)                       |
|-----------------|----------------------------------------|
| <2200           | $43 + 10 \log_{10}(p)$                 |
| 2200 - 2288     | $70 + 10 \log_{10}(p)$                 |
| 2288 - 2292     | $67 + 10 \log_{10}(p)$                 |
| 2292 - 2296     | $61 + 10 \log_{10}(p)$                 |
| 2296 - 2300     | $55 + 10 \log_{10}(p)$                 |
| 2300 - 2305     | $43 + 10 \log_{10}(p)$                 |
| 2305 - 2320     | $43 + 10 \log_{10}(p)$ <sup>Note</sup> |
| 2320 - 2324     | $55 + 10 \log_{10}(p)$                 |
| 2324 - 2328     | $61 + 10 \log_{10}(p)$                 |
| 2328 - 2337     | $67 + 10 \log_{10}(p)$                 |
| 2337 - 2341     | $61 + 10 \log_{10}(p)$                 |
| 2341 - 2345     | $55 + 10 \log_{10}(p)$                 |
| 2345 - 2360     | $43 + 10 \log_{10}(p)$ <sup>Note</sup> |
| 2360 - 2365     | $43 + 10 \log_{10}(p)$                 |
| 2365 - 2395     | $70 + 10 \log_{10}(p)$                 |
| >2395           | $43 + 10 \log_{10}(p)$                 |

**Note:** Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See Section 1.2 for the permitted frequency ranges for various equipment types.

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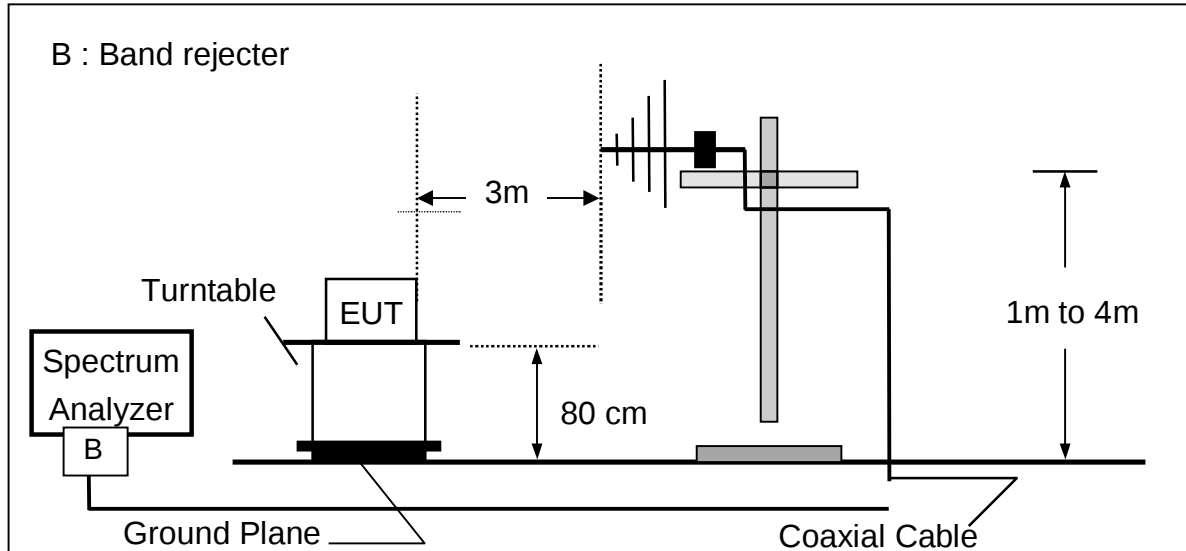
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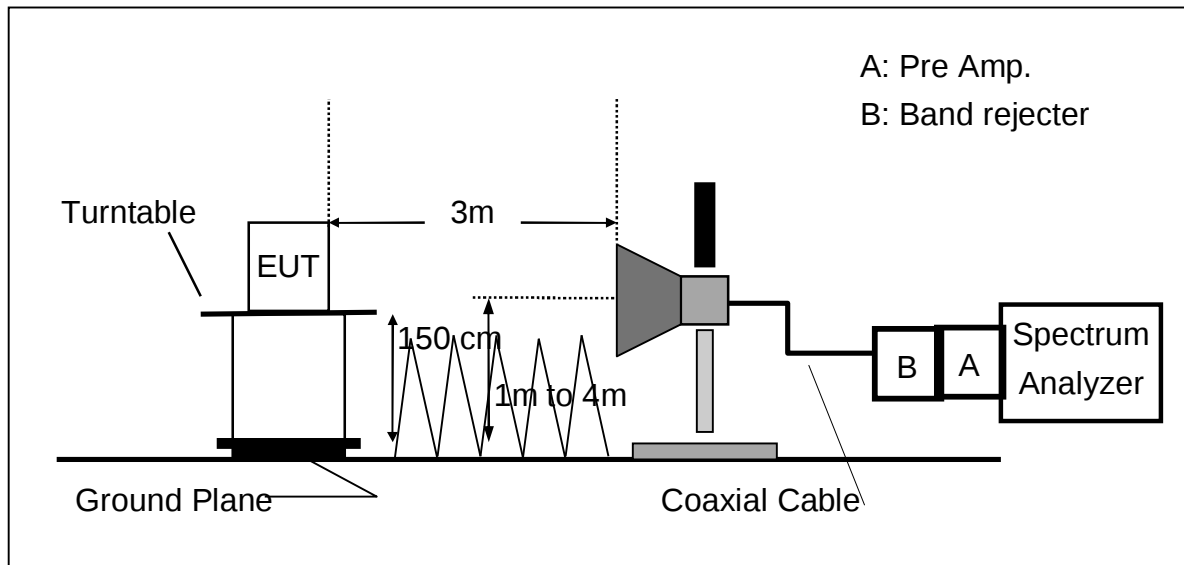
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## 9.2. EUT Setup

### Radiated Emission Test Set-Up, Frequency Below 1000MHz



### Radiated Emission Test Set-UP Frequency Over 1 GHz



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### 9.3. Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$\text{ERP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

$$\text{EIRP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBi)} + \text{Cable Loss(dB)}$$

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#### 9.4. Measurement Equipment Used:

| EQUIPMENT TYPE               | MFR             | MODEL NUMBER       | SERIAL NUMBER    | LAST CAL.  | CAL DUE.   |
|------------------------------|-----------------|--------------------|------------------|------------|------------|
| Horn Antenna                 | Schwarzbeck     | BBHA9170           | 184              | 12/25/2019 | 12/24/2020 |
| Horn Antenna                 | Schwarzbeck     | BBHA9120D          | D803             | 12/20/2019 | 12/19/2020 |
| Bi-log Antenna               | TESEO           | CBL 6112D          | 35242 & AT-N0555 | 01/13/2020 | 01/12/2021 |
| Spectrum Analyzer            | Agilent         | E4446A             | MY51100003       | 10/23/2019 | 10/22/2020 |
| Radio Communication Analyzer | Anritsu         | MT8820C            | 6200995019       | 04/01/2019 | 03/31/2020 |
| Radio Communication Analyzer | Anritsu         | MT8815B            | 6200711454       | 04/01/2019 | 03/31/2020 |
| Pre-Amplifier                | EMC Instruments | EMC184045B         | 980135           | 01/02/2020 | 01/01/2021 |
| Pre-Amplifier                | EMC Instruments | EMC051825          | 980152           | 01/02/2020 | 01/01/2021 |
| Pre-Amplifier                | HP              | 8447D              | 2944A09469       | 01/02/2020 | 01/01/2021 |
| Filter 635-920               | Micro-Tronics   | WI                 | 4                | 01/02/2020 | 01/01/2021 |
| Filter 800-1000              | Micro-Tronics   | EWT                | M1               | 01/02/2020 | 01/01/2021 |
| Filter 1700-2000             | Micro-Tronics   | EWT                | M3               | 01/02/2020 | 01/01/2021 |
| Filter 2240-2700             | Micro-Tronics   | WI                 | 2                | 01/02/2020 | 01/01/2021 |
| 1GHz High Pass Filter        | Micro-Tronics   | HPM50108           | 32               | 01/02/2020 | 01/01/2021 |
| 2GHz High Pass Filter        | Micro-Tronics   | HPM50110           | 36               | 01/02/2020 | 01/01/2021 |
| High Pass Filter             | WI              | WHKX4.0/18G-10S S  | 22               | 01/02/2020 | 01/01/2021 |
| Coaxial Cable                | Huber Suhner    | succoflex 102      | MY2622/2         | 01/02/2020 | 01/01/2021 |
| Coaxial Cable                | Huber Suhner    | succoflex 104A     | 800086/4a        | 01/02/2020 | 01/01/2021 |
| Coaxial Cable                | Huber Suhner    | EMC 104-SM-SM-2000 | 160123           | 01/02/2020 | 01/01/2021 |

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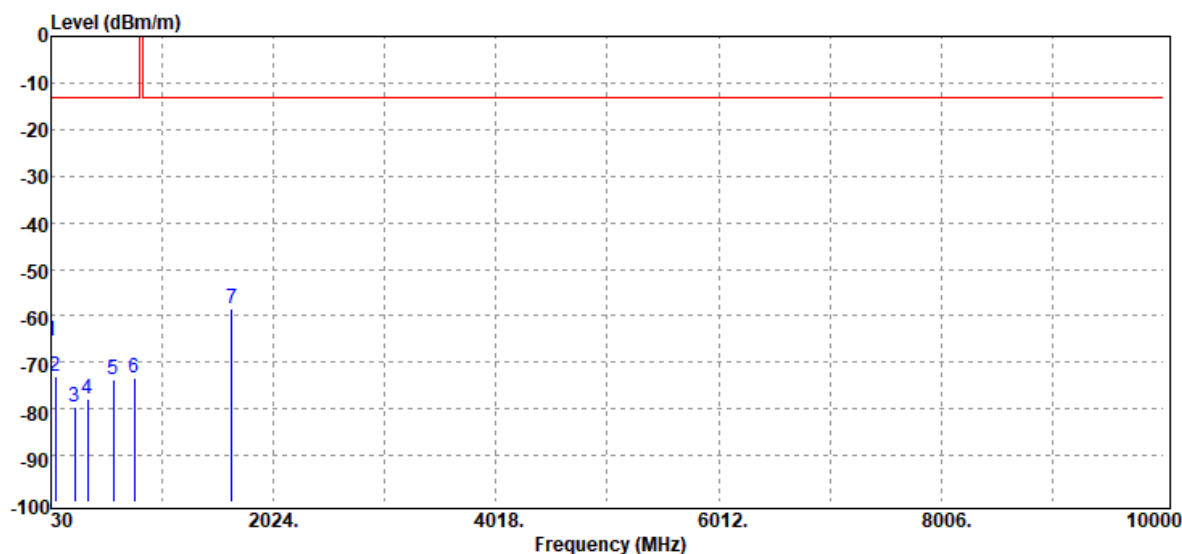
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## 9.5. Measurement Result:

### Radiated Spurious Emission Measurement Result: GSM 850 Mode

|                |                |              |             |
|----------------|----------------|--------------|-------------|
| Report Number  | :ER/2019/C0150 | Test Date    | :2020-01-17 |
| Operation Mode | :GSM 850       | Temp./Humi.  | :21.6/65    |
| Test Mode      | :Tx CH Low     | Antenna Pol. | :VERTICAL   |
| EUT Pol        | :H Plane       | Engineer     | :Thomas     |
| Test Channel   | :824.2 MHz     |              |             |



| Freq.   | EIRP/ERP | SG                  | Antenna         | Cable      | Limit  | Margin |
|---------|----------|---------------------|-----------------|------------|--------|--------|
| MHz     | dBm      | Output Level<br>dBm | Gain<br>dBi/dBd | Loss<br>dB | dBm    | dB     |
| 34.85   | -65.52   | -45.03              | -19.90          | -0.59      | -13.00 | -52.52 |
| 68.80   | -72.93   | -59.68              | -12.45          | -0.80      | -13.00 | -59.93 |
| 240.49  | -79.51   | -76.35              | -1.73           | -1.43      | -13.00 | -66.51 |
| 354.95  | -77.93   | -74.48              | -1.54           | -1.91      | -13.00 | -64.93 |
| 592.60  | -73.68   | -69.91              | -1.74           | -2.03      | -13.00 | -60.68 |
| 778.84  | -73.39   | -69.02              | -1.71           | -2.66      | -13.00 | -60.39 |
| 1648.40 | -58.32   | -63.61              | 9.30            | -4.01      | -13.00 | -45.32 |

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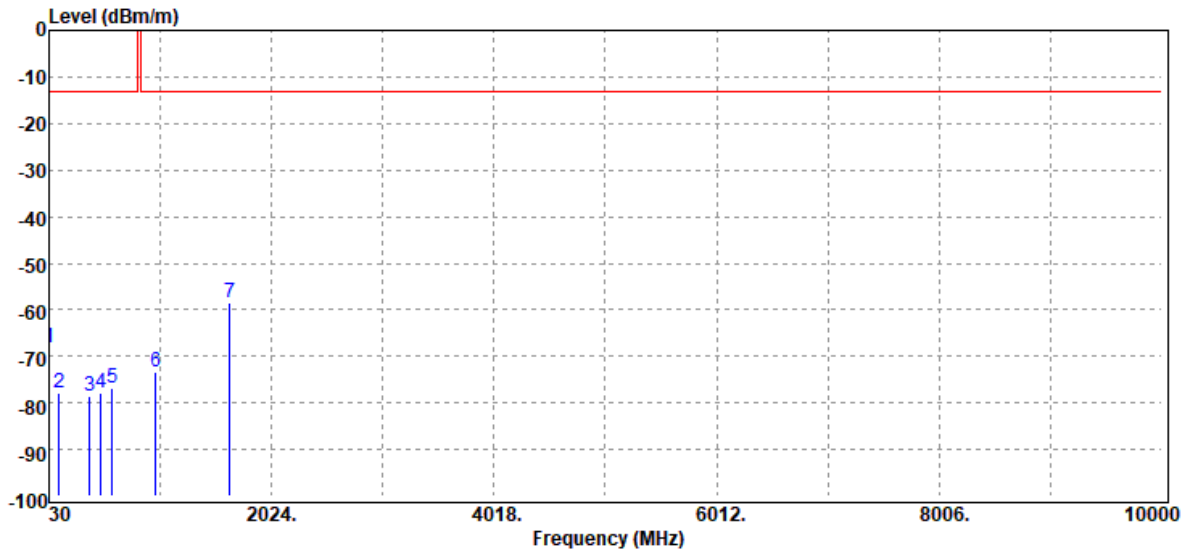
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Report Number :ER/2019/C0150  
Operation Mode :GSM 850  
Test Mode :Tx CH Low  
EUT Pol :H Plane  
Test Channel :824.2 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -68.09          | -47.03                    | -20.49                     | -0.57               | -13.00       | -55.09       |
| 122.15       | -77.90          | -69.76                    | -7.10                      | -1.04               | -13.00       | -64.90       |
| 396.66       | -78.42          | -74.87                    | -1.61                      | -1.94               | -13.00       | -65.42       |
| 498.51       | -77.82          | -74.01                    | -1.49                      | -2.32               | -13.00       | -64.82       |
| 599.39       | -76.86          | -72.73                    | -1.86                      | -2.27               | -13.00       | -63.86       |
| 982.54       | -73.51          | -68.47                    | -1.74                      | -3.30               | -13.00       | -60.51       |
| 1648.40      | -58.59          | -63.88                    | 9.30                       | -4.01               | -13.00       | -45.59       |

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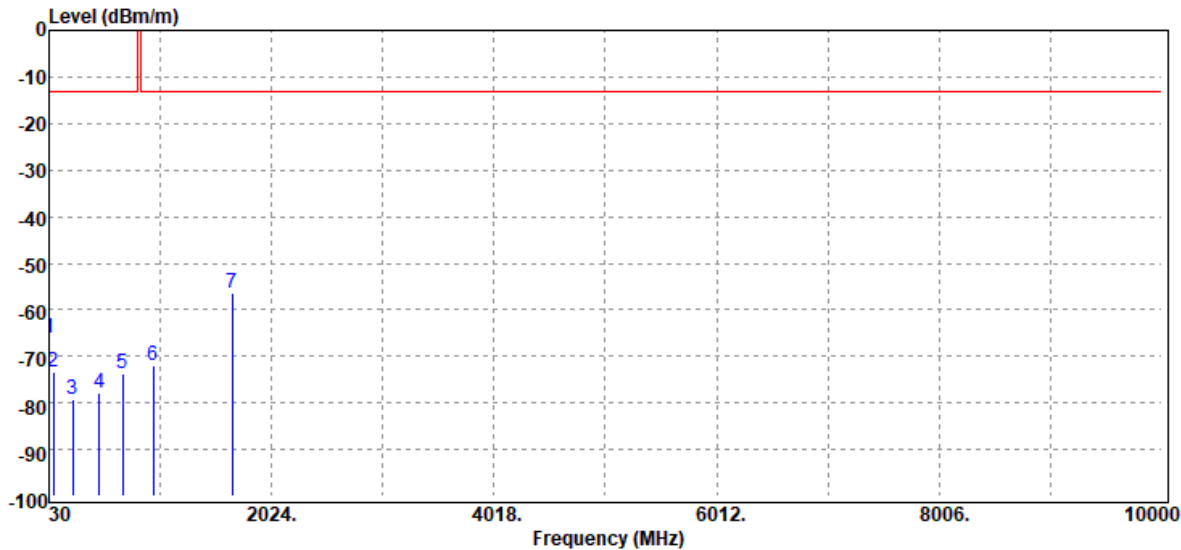
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Report Number :ER/2019/C0150  
Operation Mode :GSM 850  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Channel :836.6 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :VERTICAL  
Engineer :Thomas


| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -66.02          | -44.96                    | -20.49                     | -0.57               | -13.00       | -53.02       |
| 66.86        | -73.53          | -59.59                    | -13.15                     | -0.79               | -13.00       | -60.53       |
| 245.34       | -79.27          | -76.14                    | -1.66                      | -1.47               | -13.00       | -66.27       |
| 483.96       | -77.90          | -74.16                    | -1.51                      | -2.23               | -13.00       | -64.90       |
| 687.66       | -73.63          | -69.85                    | -1.29                      | -2.49               | -13.00       | -60.63       |
| 966.05       | -71.98          | -66.85                    | -1.86                      | -3.27               | -13.00       | -58.98       |
| 1673.20      | -56.52          | -61.98                    | 9.49                       | -4.03               | -13.00       | -43.52       |

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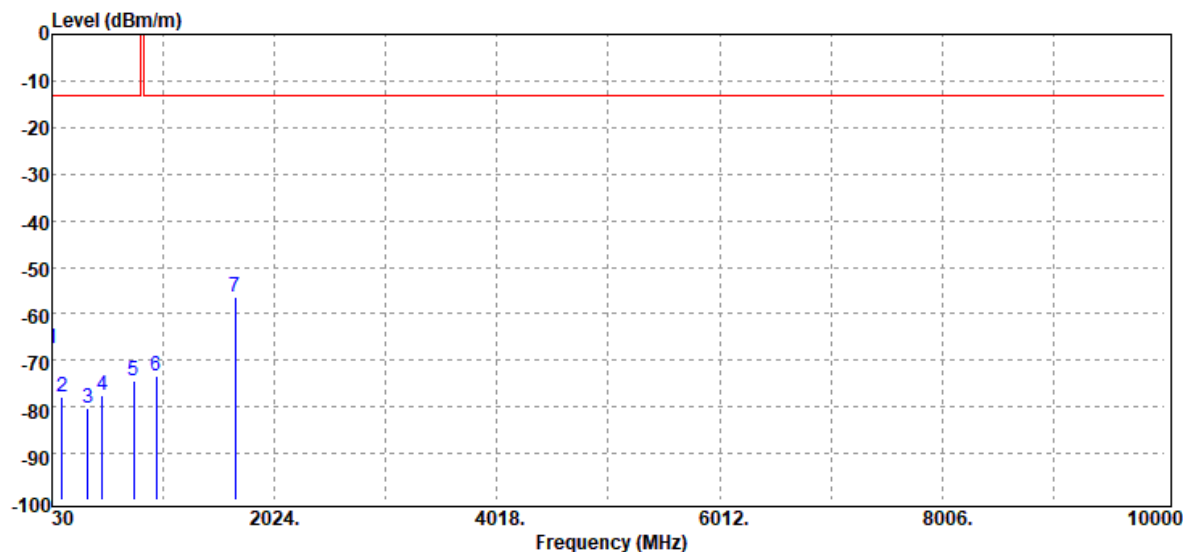
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Report Number :ER/2019/C0150  
Operation Mode :GSM 850  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Channel :836.6 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas


| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 34.85        | -67.50          | -47.01                    | -19.90                     | -0.59               | -13.00       | -54.50       |
| 117.30       | -77.79          | -69.68                    | -7.09                      | -1.02               | -13.00       | -64.79       |
| 348.16       | -80.40          | -77.01                    | -1.50                      | -1.89               | -13.00       | -67.40       |
| 481.05       | -77.48          | -73.80                    | -1.44                      | -2.24               | -13.00       | -64.48       |
| 762.35       | -74.55          | -70.13                    | -1.80                      | -2.62               | -13.00       | -61.55       |
| 966.05       | -73.36          | -68.23                    | -1.86                      | -3.27               | -13.00       | -60.36       |
| 1673.20      | -56.42          | -61.88                    | 9.49                       | -4.03               | -13.00       | -43.42       |

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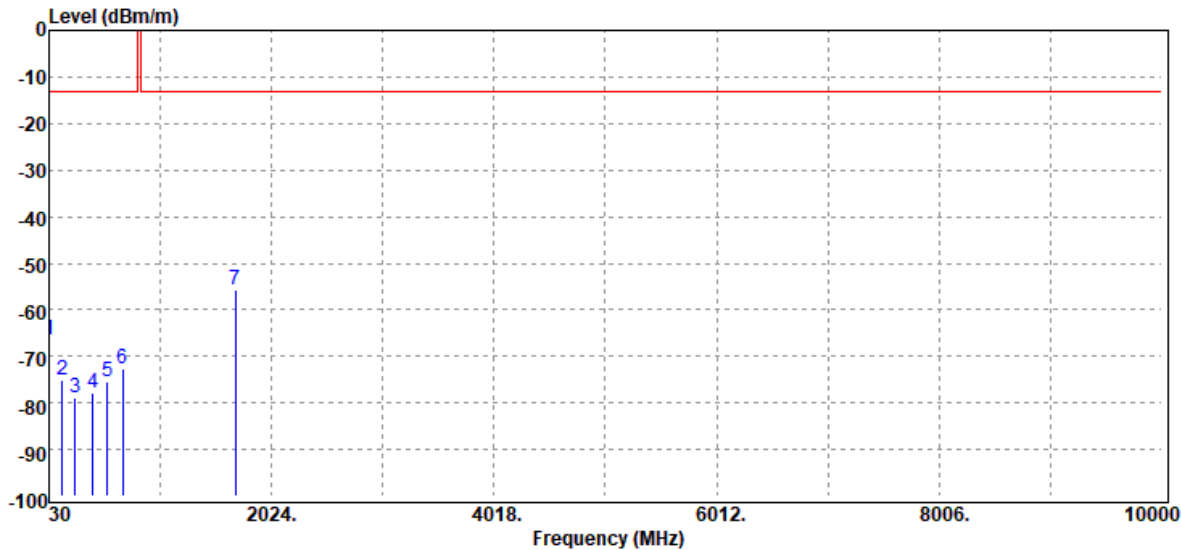
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Report Number :ER/2019/C0150  
Operation Mode :GSM 850  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Channel :848.8 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :VERTICAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 33.88        | -66.30          | -45.57                    | -20.15                     | -0.58               | -13.00       | -53.30       |
| 150.28       | -75.09          | -66.18                    | -7.70                      | -1.21               | -13.00       | -62.09       |
| 260.86       | -78.96          | -75.68                    | -1.66                      | -1.62               | -13.00       | -65.96       |
| 420.91       | -77.82          | -74.20                    | -1.66                      | -1.96               | -13.00       | -64.82       |
| 553.80       | -75.48          | -71.78                    | -1.45                      | -2.25               | -13.00       | -62.48       |
| 689.60       | -72.75          | -68.99                    | -1.27                      | -2.49               | -13.00       | -59.75       |
| 1697.60      | -55.56          | -61.19                    | 9.68                       | -4.05               | -13.00       | -42.56       |

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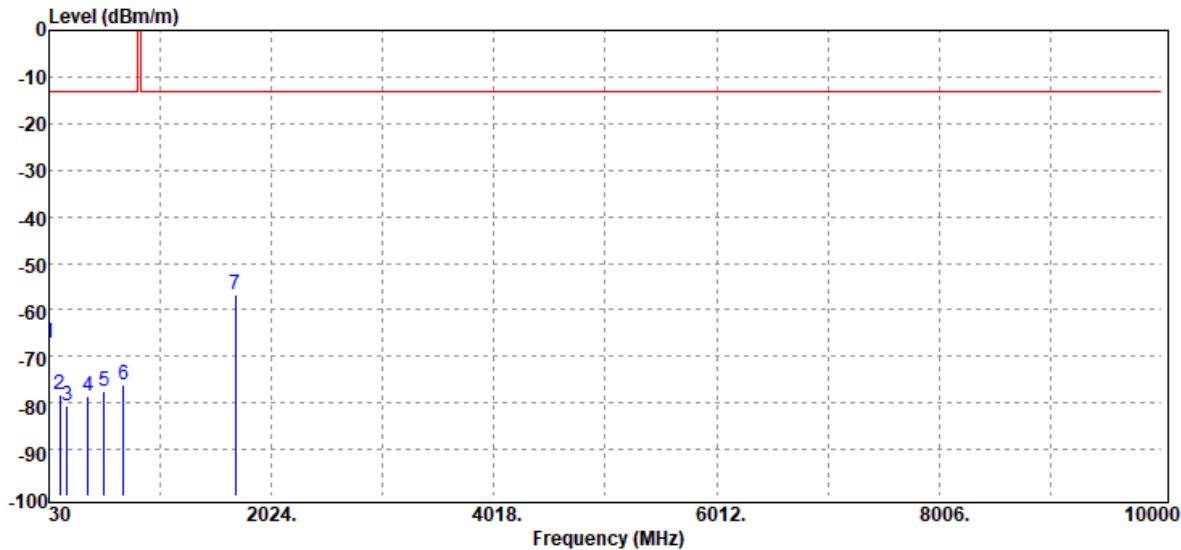
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Report Number :ER/2019/C0150  
Operation Mode :GSM 850  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Channel :848.8 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas


| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -67.30          | -46.24                    | -20.49                     | -0.57               | -13.00       | -54.30       |
| 127.00       | -78.22          | -69.98                    | -7.16                      | -1.08               | -13.00       | -65.22       |
| 191.99       | -80.71          | -76.59                    | -2.77                      | -1.35               | -13.00       | -67.71       |
| 379.20       | -78.52          | -74.96                    | -1.64                      | -1.92               | -13.00       | -65.52       |
| 526.64       | -77.46          | -73.61                    | -1.44                      | -2.41               | -13.00       | -64.46       |
| 697.36       | -75.97          | -72.07                    | -1.32                      | -2.58               | -13.00       | -62.97       |
| 1697.60      | -56.81          | -62.44                    | 9.68                       | -4.05               | -13.00       | -43.81       |

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## Radiated Spurious Emission Measurement Result: GSM 1900 Mode

Report Number :ER/2019/C0150

Test Date :2020-01-17

Operation Mode :GSM 1900

Temp./Humi. :21.6/65

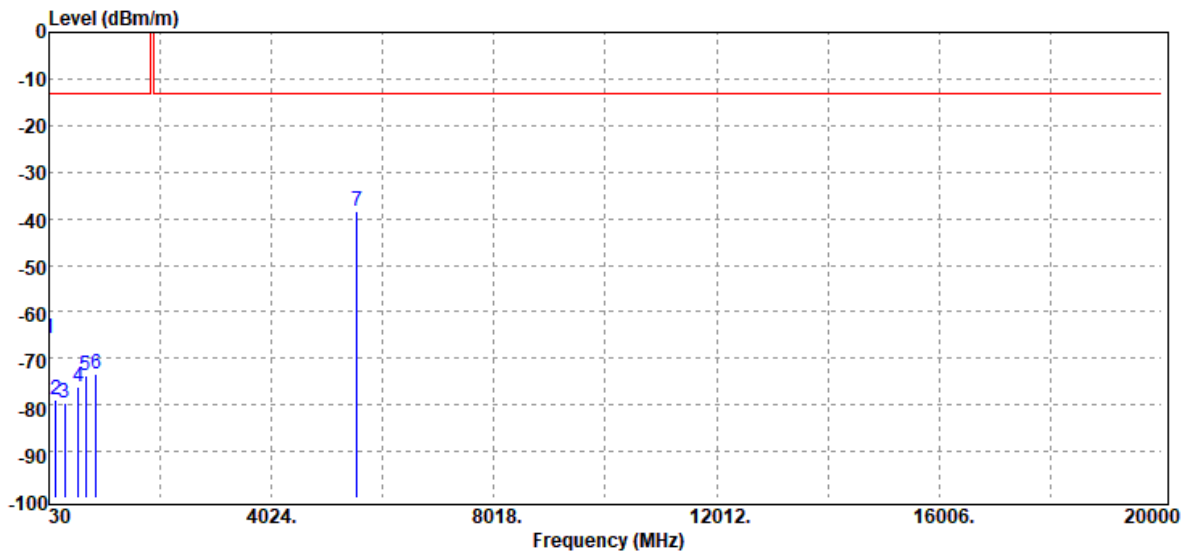
Test Mode :Tx CH Low

Antenna Pol. :VERTICAL

EUT Pol :H Plane

Engineer :Thomas

Test Channel :1850.2 MHz



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -65.71          | -44.65                    | -20.49                     | -0.57               | -13.00       | -52.71       |
| 149.31       | -78.89          | -69.92                    | -7.76                      | -1.21               | -13.00       | -65.89       |
| 315.18       | -79.62          | -76.36                    | -1.58                      | -1.68               | -13.00       | -66.62       |
| 561.56       | -76.24          | -72.56                    | -1.39                      | -2.29               | -13.00       | -63.24       |
| 681.84       | -73.64          | -69.83                    | -1.30                      | -2.51               | -13.00       | -60.64       |
| 881.66       | -73.33          | -69.07                    | -1.73                      | -2.53               | -13.00       | -60.33       |
| 5550.60      | -38.48          | -44.16                    | 13.00                      | -7.32               | -13.00       | -25.48       |

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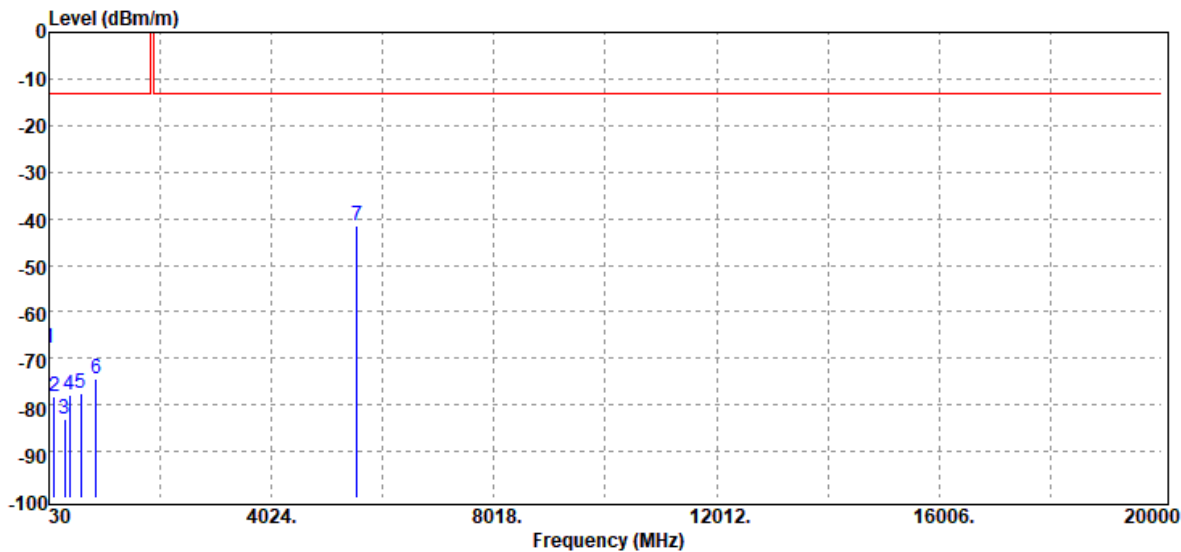
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Report Number :ER/2019/C0150  
Operation Mode :GSM 1900  
Test Mode :Tx CH Low  
EUT Pol :H Plane  
Test Channel :1850.2 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -67.93          | -46.87                    | -20.49                     | -0.57               | -13.00       | -54.93       |
| 125.06       | -78.03          | -69.87                    | -7.10                      | -1.06               | -13.00       | -65.03       |
| 316.15       | -82.90          | -79.60                    | -1.61                      | -1.69               | -13.00       | -69.90       |
| 400.54       | -77.70          | -74.18                    | -1.60                      | -1.92               | -13.00       | -64.70       |
| 602.30       | -77.35          | -73.06                    | -1.94                      | -2.35               | -13.00       | -64.35       |
| 881.66       | -74.23          | -69.97                    | -1.73                      | -2.53               | -13.00       | -61.23       |
| 5550.60      | -41.35          | -47.03                    | 13.00                      | -7.32               | -13.00       | -28.35       |

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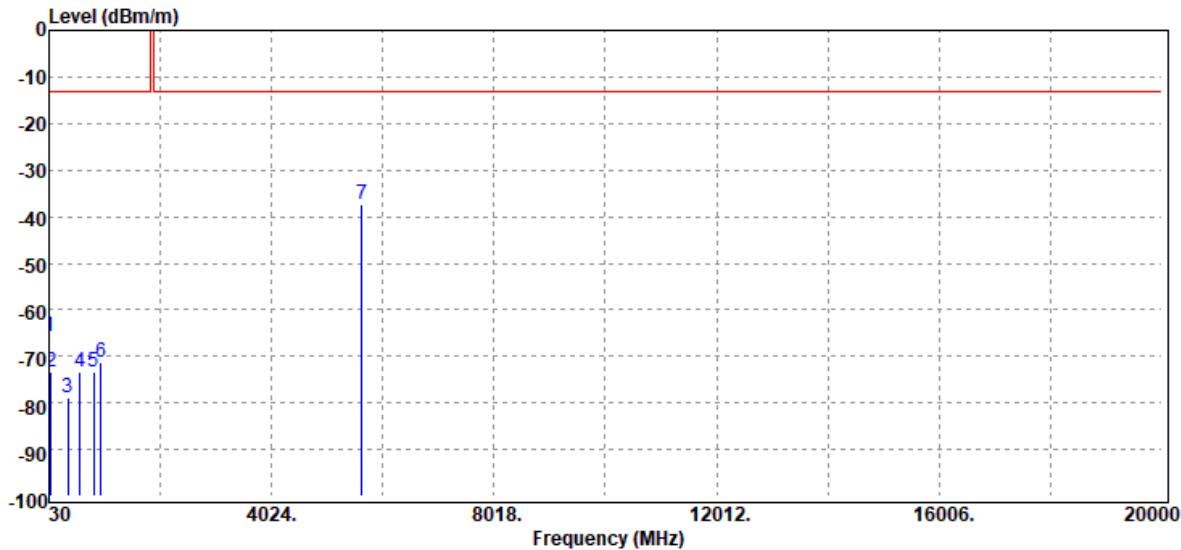
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Report Number :ER/2019/C0150  
Operation Mode :GSM 1900  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Channel :1880 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :VERTICAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -65.80          | -44.74                    | -20.49                     | -0.57               | -13.00       | -52.80       |
| 65.89        | -73.27          | -59.09                    | -13.40                     | -0.78               | -13.00       | -60.27       |
| 372.41       | -78.74          | -75.21                    | -1.62                      | -1.91               | -13.00       | -65.74       |
| 589.69       | -73.29          | -69.64                    | -1.71                      | -1.94               | -13.00       | -60.29       |
| 835.10       | -73.26          | -68.46                    | -1.81                      | -2.99               | -13.00       | -60.26       |
| 968.96       | -71.28          | -66.14                    | -1.89                      | -3.25               | -13.00       | -58.28       |
| 5640.00      | -37.35          | -43.13                    | 13.26                      | -7.48               | -13.00       | -24.35       |

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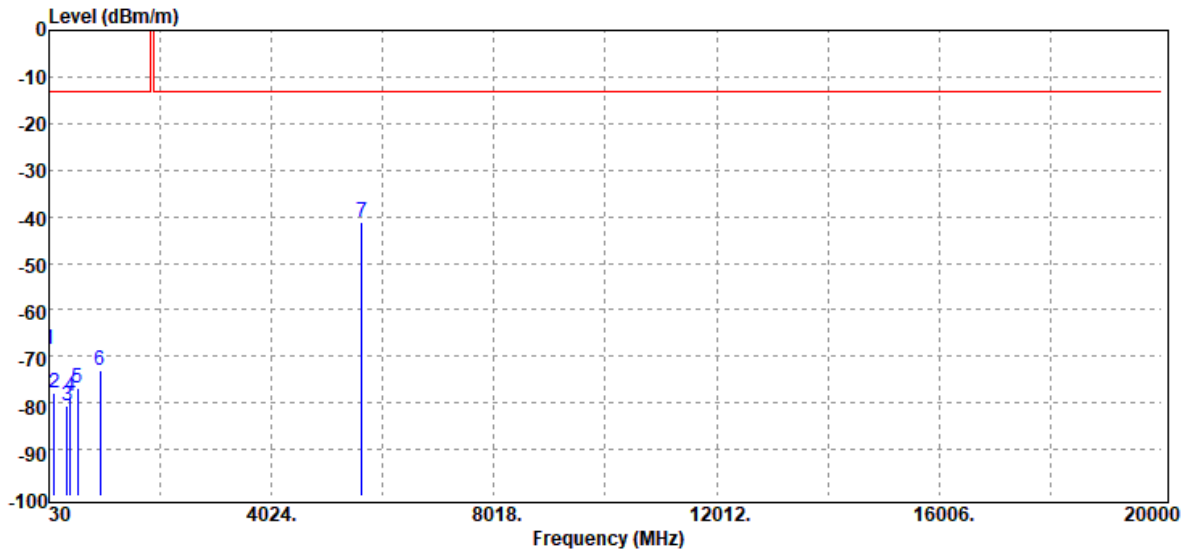
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Report Number :ER/2019/C0150  
Operation Mode :GSM 1900  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Channel :1880 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 34.85        | -68.37          | -47.88                    | -19.90                     | -0.59               | -13.00       | -55.37       |
| 125.06       | -77.70          | -69.54                    | -7.10                      | -1.06               | -13.00       | -64.70       |
| 353.98       | -80.67          | -77.24                    | -1.52                      | -1.91               | -13.00       | -67.67       |
| 413.15       | -78.47          | -74.94                    | -1.58                      | -1.95               | -13.00       | -65.47       |
| 537.31       | -76.86          | -73.28                    | -1.38                      | -2.20               | -13.00       | -63.86       |
| 944.71       | -72.96          | -68.01                    | -1.84                      | -3.11               | -13.00       | -59.96       |
| 5640.00      | -41.25          | -47.03                    | 13.26                      | -7.48               | -13.00       | -28.25       |

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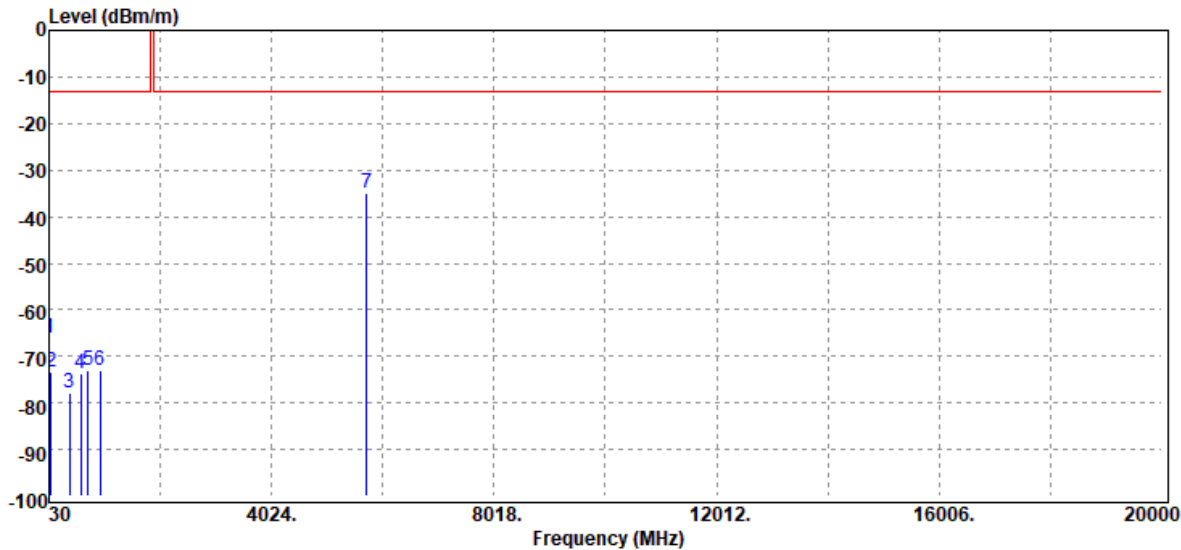
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Report Number :ER/2019/C0150  
Operation Mode :GSM 1900  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Channel :1909.8 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :VERTICAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 34.85        | -66.23          | -45.74                    | -19.90                     | -0.59               | -13.00       | -53.23       |
| 66.86        | -73.28          | -59.34                    | -13.15                     | -0.79               | -13.00       | -60.28       |
| 405.39       | -77.79          | -74.27                    | -1.59                      | -1.93               | -13.00       | -64.79       |
| 604.24       | -73.83          | -69.45                    | -1.98                      | -2.40               | -13.00       | -60.83       |
| 725.49       | -72.94          | -69.30                    | -1.34                      | -2.30               | -13.00       | -59.94       |
| 944.71       | -72.89          | -67.94                    | -1.84                      | -3.11               | -13.00       | -59.89       |
| 5729.40      | -34.96          | -40.32                    | 12.94                      | -7.58               | -13.00       | -21.96       |

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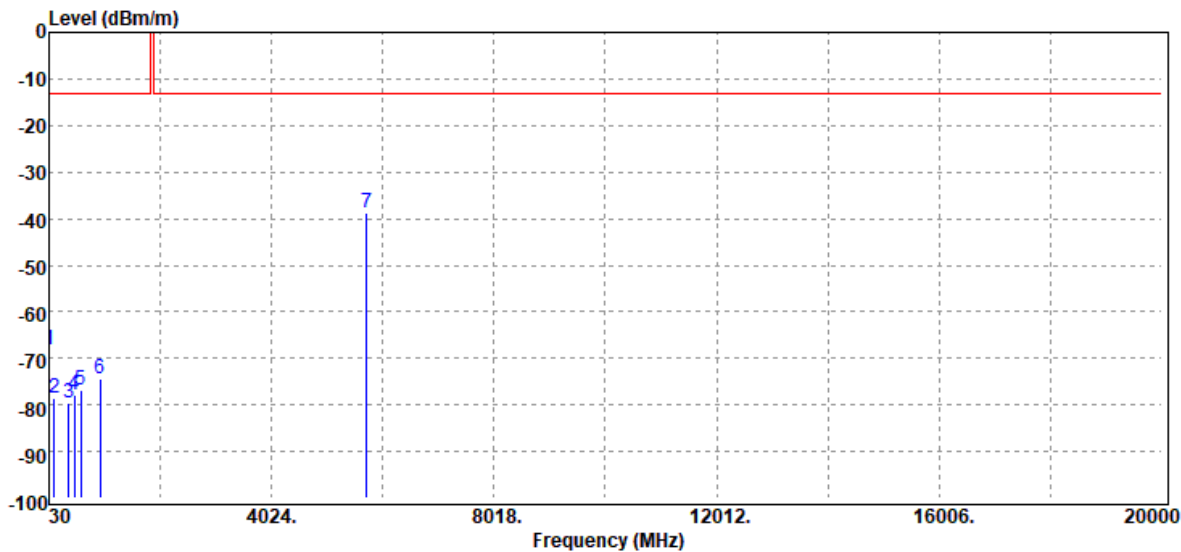
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Report Number :ER/2019/C0150  
Operation Mode :GSM 1900  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Channel :1909.8 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -68.08          | -47.02                    | -20.49                     | -0.57               | -13.00       | -55.08       |
| 122.15       | -78.62          | -70.48                    | -7.10                      | -1.04               | -13.00       | -65.62       |
| 381.14       | -79.52          | -75.95                    | -1.64                      | -1.93               | -13.00       | -66.52       |
| 481.05       | -78.00          | -74.32                    | -1.44                      | -2.24               | -13.00       | -65.00       |
| 599.39       | -76.79          | -72.66                    | -1.86                      | -2.27               | -13.00       | -63.79       |
| 951.50       | -74.31          | -69.17                    | -1.91                      | -3.23               | -13.00       | -61.31       |
| 5729.40      | -38.71          | -44.07                    | 12.94                      | -7.58               | -13.00       | -25.71       |

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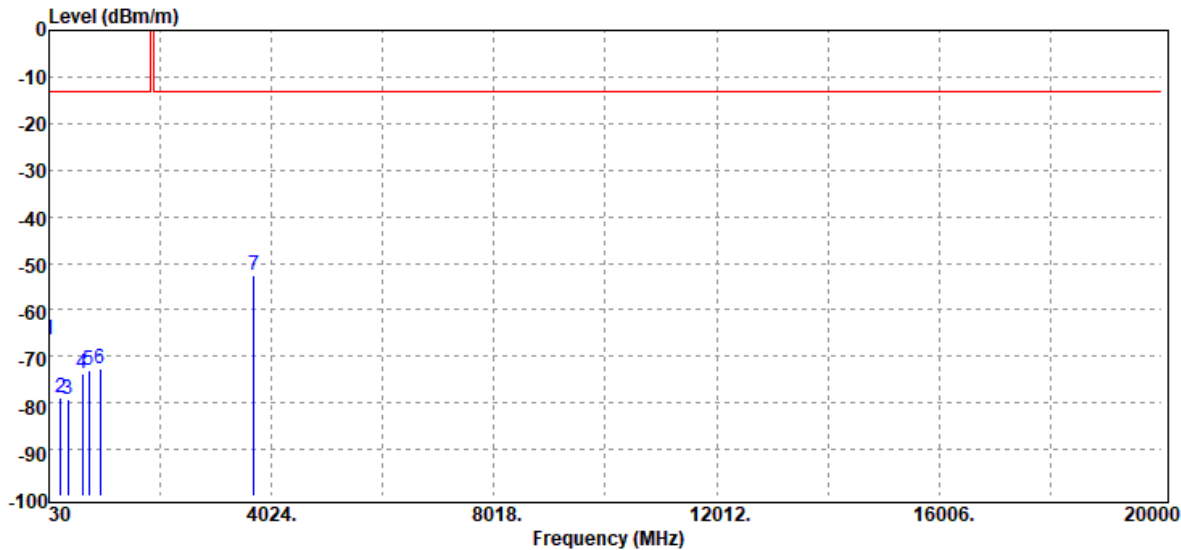
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## Radiated Spurious Emission Measurement Result: WCDMA Band 2 Mode

|                |                |              |             |
|----------------|----------------|--------------|-------------|
| Report Number  | :ER/2019/C0150 | Test Date    | :2020-01-17 |
| Operation Mode | :WCDMA B2      | Temp./Humi.  | :21.6/65    |
| Test Mode      | :Tx CH Low     | Antenna Pol. | :VERTICAL   |
| EUT Pol        | :H Plane       | Engineer     | :Thomas     |
| Test Channel   | :1852.4 MHz    |              |             |



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -66.32          | -45.26                    | -20.49                     | -0.57               | -13.00       | -53.32       |
| 240.49       | -78.98          | -75.82                    | -1.73                      | -1.43               | -13.00       | -65.98       |
| 367.56       | -79.38          | -75.89                    | -1.58                      | -1.91               | -13.00       | -66.38       |
| 636.25       | -73.53          | -69.49                    | -1.56                      | -2.48               | -13.00       | -60.53       |
| 745.86       | -72.92          | -68.71                    | -1.81                      | -2.40               | -13.00       | -59.92       |
| 949.56       | -72.74          | -67.65                    | -1.88                      | -3.21               | -13.00       | -59.74       |
| 3704.80      | -52.62          | -59.07                    | 12.39                      | -5.94               | -13.00       | -39.62       |

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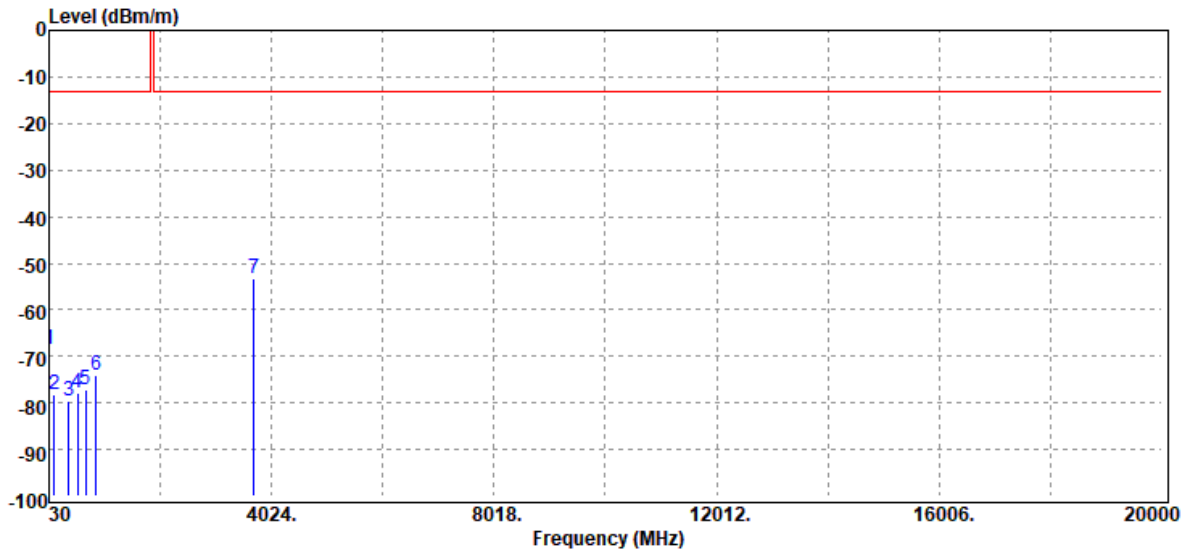
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Report Number :ER/2019/C0150  
Operation Mode :WCDMA B2  
Test Mode :Tx CH Low  
EUT Pol :H Plane  
Test Channel :1852.4 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 33.88        | -68.49          | -47.76                    | -20.15                     | -0.58               | -13.00       | -55.49       |
| 122.15       | -78.05          | -69.91                    | -7.10                      | -1.04               | -13.00       | -65.05       |
| 379.20       | -79.50          | -75.94                    | -1.64                      | -1.92               | -13.00       | -66.50       |
| 546.04       | -77.93          | -74.33                    | -1.41                      | -2.19               | -13.00       | -64.93       |
| 681.84       | -77.06          | -73.25                    | -1.30                      | -2.51               | -13.00       | -64.06       |
| 881.66       | -73.96          | -69.70                    | -1.73                      | -2.53               | -13.00       | -60.96       |
| 3704.80      | -53.31          | -59.76                    | 12.39                      | -5.94               | -13.00       | -40.31       |

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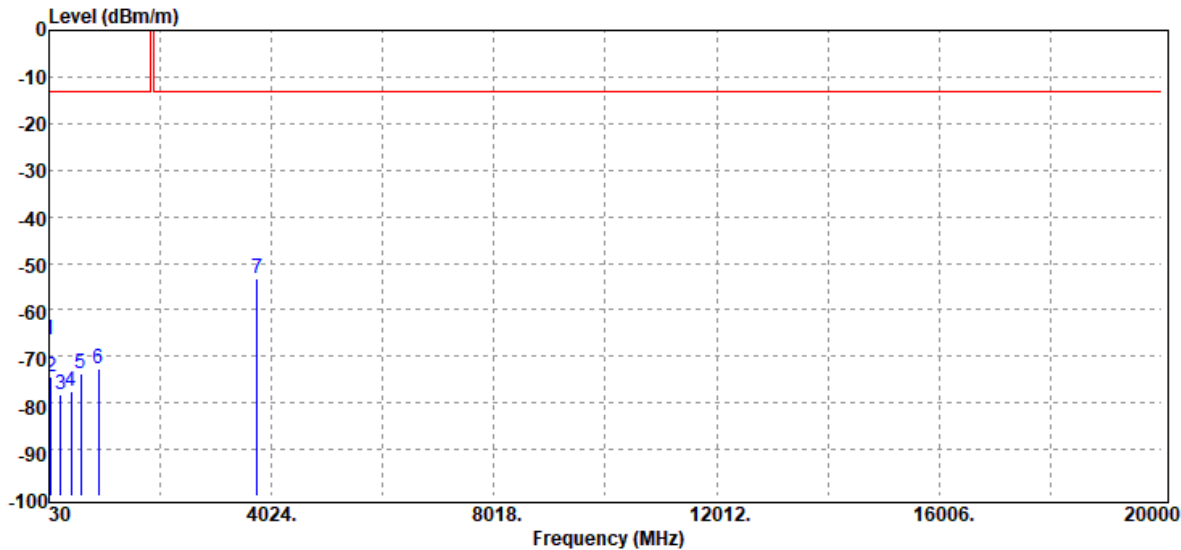
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Report Number :ER/2019/C0150  
Operation Mode :WCDMA B2  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Channel :1880 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :VERTICAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -66.30          | -45.24                    | -20.49                     | -0.57               | -13.00       | -53.30       |
| 66.86        | -74.55          | -60.61                    | -13.15                     | -0.79               | -13.00       | -61.55       |
| 245.34       | -78.33          | -75.20                    | -1.66                      | -1.47               | -13.00       | -65.33       |
| 420.91       | -77.67          | -74.05                    | -1.66                      | -1.96               | -13.00       | -64.67       |
| 597.45       | -73.83          | -69.82                    | -1.81                      | -2.20               | -13.00       | -60.83       |
| 919.49       | -72.74          | -67.96                    | -1.94                      | -2.84               | -13.00       | -59.74       |
| 3760.00      | -53.13          | -59.41                    | 12.30                      | -6.02               | -13.00       | -40.13       |

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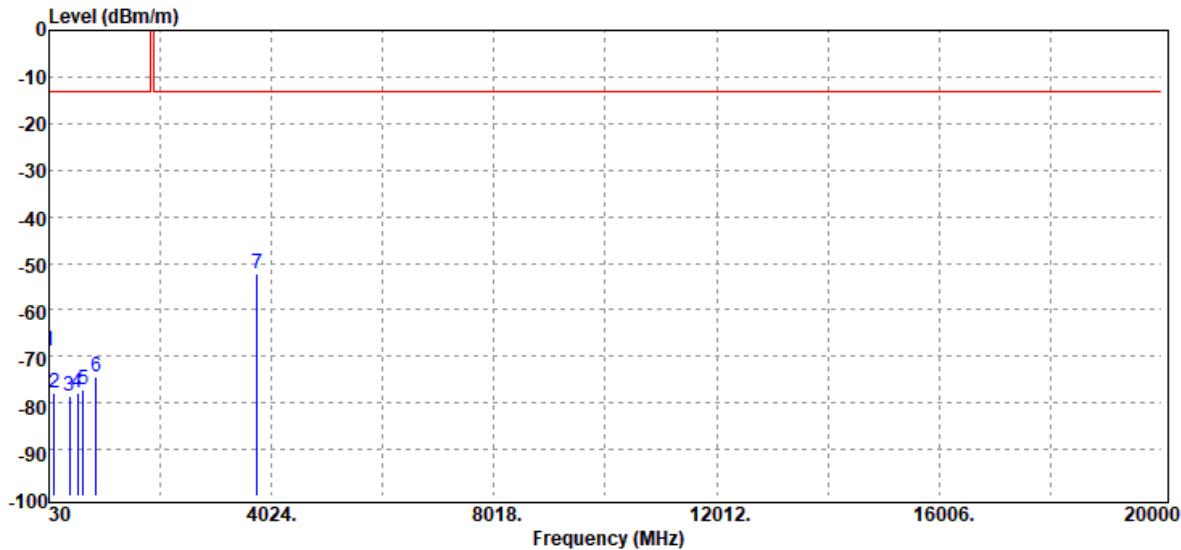
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Report Number :ER/2019/C0150  
Operation Mode :WCDMA B2  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Channel :1880 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 34.85        | -68.69          | -48.20                    | -19.90                     | -0.59               | -13.00       | -55.69       |
| 120.21       | -77.97          | -69.89                    | -7.06                      | -1.02               | -13.00       | -64.97       |
| 391.81       | -78.43          | -74.84                    | -1.62                      | -1.97               | -13.00       | -65.43       |
| 546.04       | -77.74          | -74.14                    | -1.41                      | -2.19               | -13.00       | -64.74       |
| 643.04       | -77.27          | -73.11                    | -1.54                      | -2.62               | -13.00       | -64.27       |
| 875.84       | -74.45          | -70.24                    | -1.71                      | -2.50               | -13.00       | -61.45       |
| 3760.00      | -52.19          | -58.47                    | 12.30                      | -6.02               | -13.00       | -39.19       |

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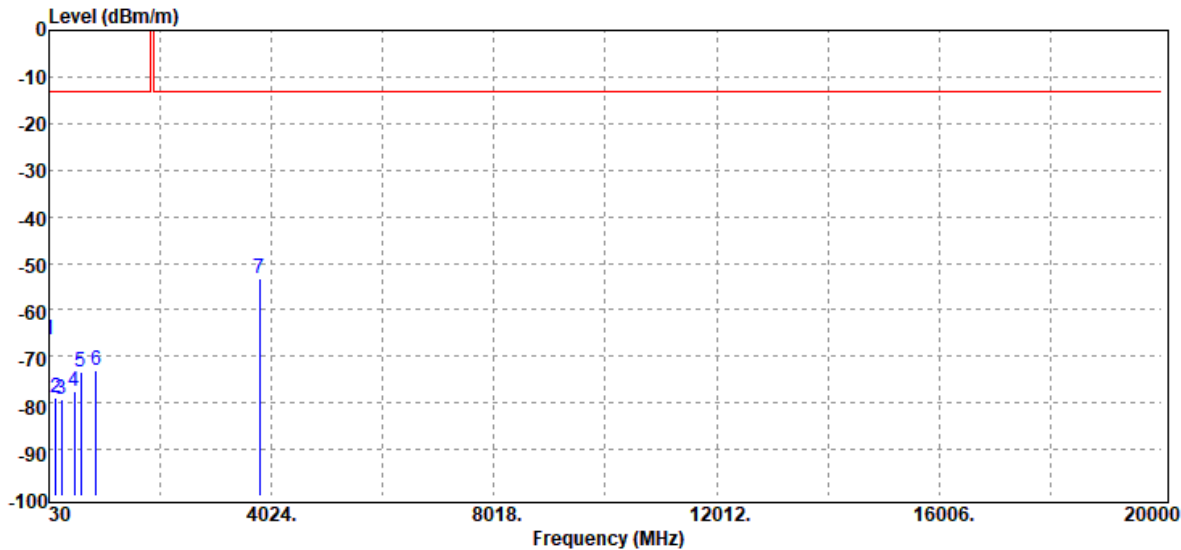
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Report Number :ER/2019/C0150  
Operation Mode :WCDMA B2  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Channel :1907.6 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :VERTICAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -66.54          | -45.48                    | -20.49                     | -0.57               | -13.00       | -53.54       |
| 153.19       | -78.85          | -70.13                    | -7.46                      | -1.26               | -13.00       | -65.85       |
| 257.95       | -79.16          | -75.93                    | -1.63                      | -1.60               | -13.00       | -66.16       |
| 488.81       | -77.67          | -73.92                    | -1.54                      | -2.21               | -13.00       | -64.67       |
| 599.39       | -73.31          | -69.18                    | -1.86                      | -2.27               | -13.00       | -60.31       |
| 871.96       | -72.86          | -68.68                    | -1.67                      | -2.51               | -13.00       | -59.86       |
| 3815.20      | -53.15          | -59.32                    | 12.27                      | -6.10               | -13.00       | -40.15       |

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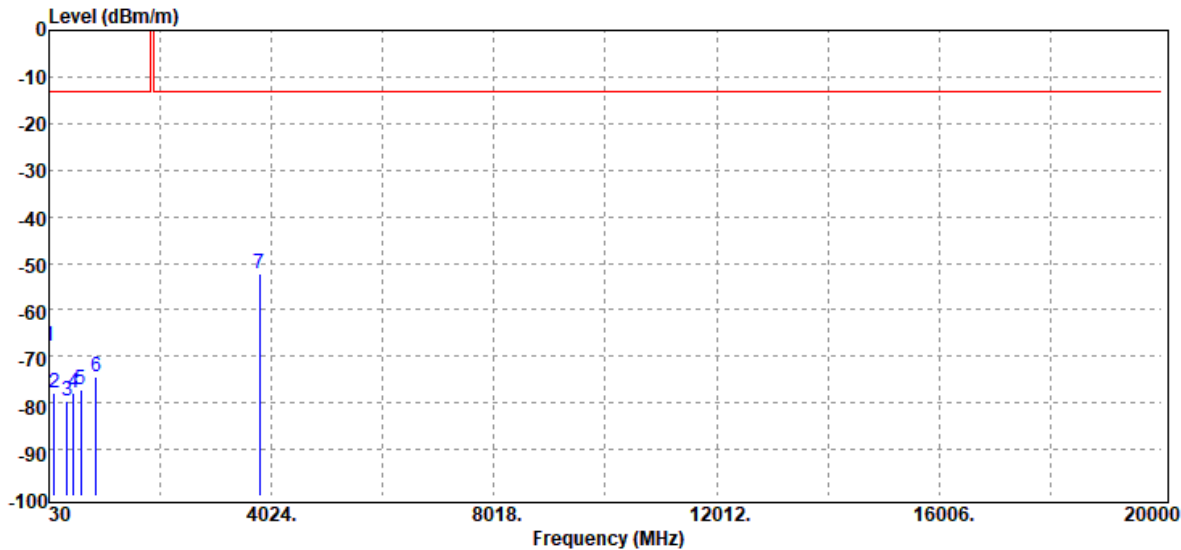
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Report Number :ER/2019/C0150  
Operation Mode :WCDMA B2  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Channel :1907.6 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -67.91          | -46.85                    | -20.49                     | -0.57               | -13.00       | -54.91       |
| 123.12       | -77.99          | -69.91                    | -7.04                      | -1.04               | -13.00       | -64.99       |
| 354.95       | -79.72          | -76.27                    | -1.54                      | -1.91               | -13.00       | -66.72       |
| 476.20       | -77.78          | -74.04                    | -1.49                      | -2.25               | -13.00       | -64.78       |
| 602.30       | -77.10          | -72.81                    | -1.94                      | -2.35               | -13.00       | -64.10       |
| 873.90       | -74.24          | -70.05                    | -1.69                      | -2.50               | -13.00       | -61.24       |
| 3815.20      | -52.08          | -58.25                    | 12.27                      | -6.10               | -13.00       | -39.08       |

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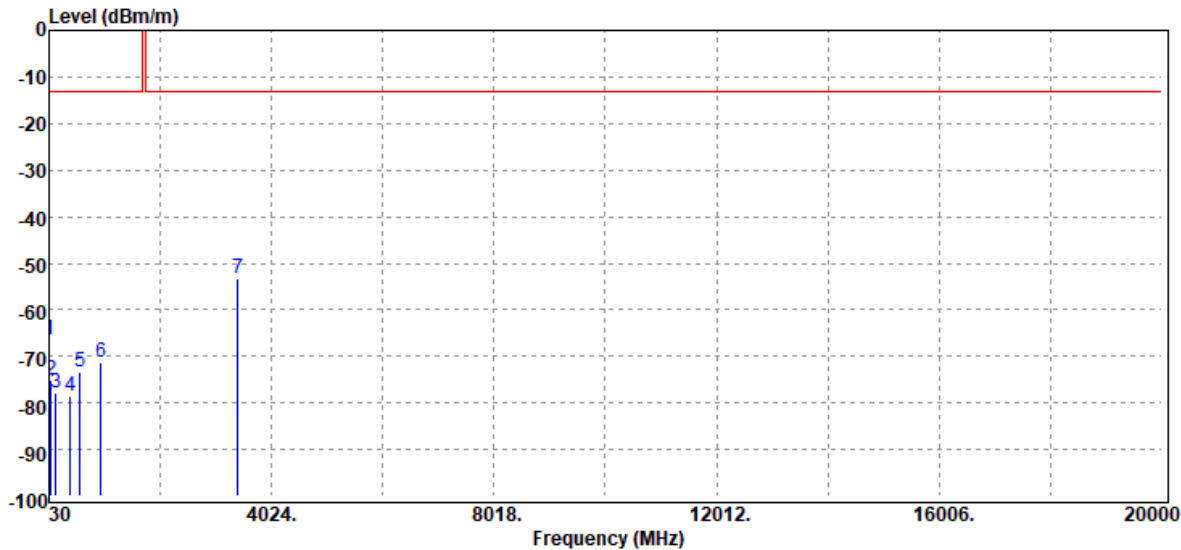
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## Radiated Spurious Emission Measurement Result: WCDMA Band 4 Mode

|                |                |              |             |
|----------------|----------------|--------------|-------------|
| Report Number  | :ER/2019/C0150 | Test Date    | :2020-01-17 |
| Operation Mode | :WCDMA B4      | Temp./Humi.  | :21.6/65    |
| Test Mode      | :Tx CH Low     | Antenna Pol. | :VERTICAL   |
| EUT Pol        | :H Plane       | Engineer     | :Thomas     |
| Test Channel   | :1712.4 MHz    |              |             |



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -66.56          | -45.50                    | -20.49                     | -0.57               | -13.00       | -53.56       |
| 66.86        | -75.00          | -61.06                    | -13.15                     | -0.79               | -13.00       | -62.00       |
| 154.16       | -77.86          | -69.12                    | -7.46                      | -1.28               | -13.00       | -64.86       |
| 410.24       | -78.54          | -75.03                    | -1.58                      | -1.93               | -13.00       | -65.54       |
| 590.66       | -73.19          | -69.51                    | -1.72                      | -1.96               | -13.00       | -60.19       |
| 967.99       | -71.17          | -66.03                    | -1.88                      | -3.26               | -13.00       | -58.17       |
| 3424.80      | -53.28          | -59.88                    | 12.40                      | -5.80               | -13.00       | -40.28       |

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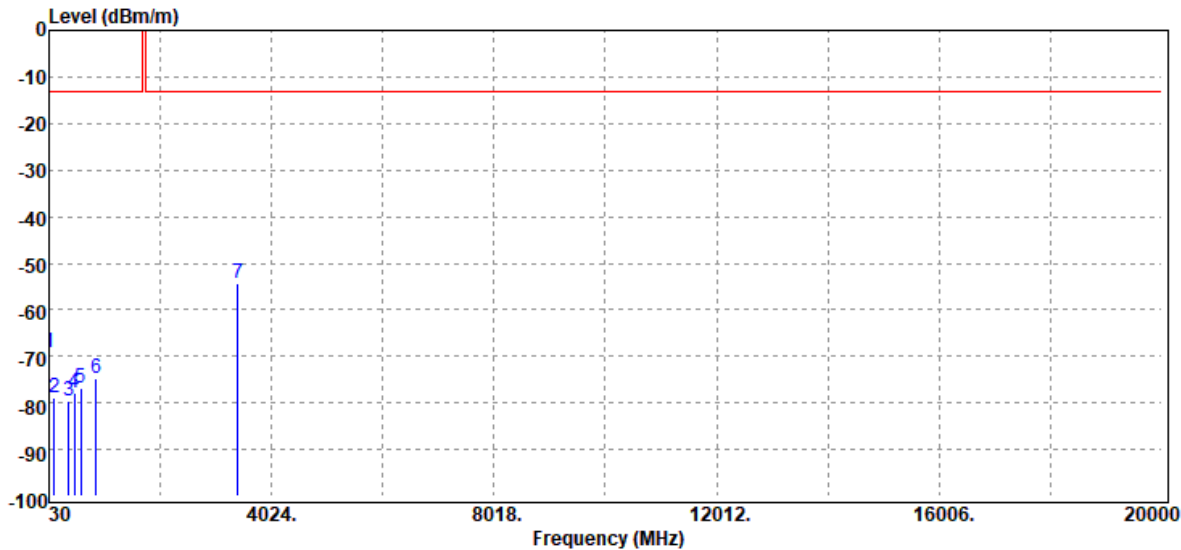
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Report Number :ER/2019/C0150  
Operation Mode :WCDMA B4  
Test Mode :Tx CH Low  
EUT Pol :H Plane  
Test Channel :1712.4 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 34.85        | -69.28          | -48.79                    | -19.90                     | -0.59               | -13.00       | -56.28       |
| 128.94       | -78.84          | -70.52                    | -7.23                      | -1.09               | -13.00       | -65.84       |
| 379.20       | -79.62          | -76.06                    | -1.64                      | -1.92               | -13.00       | -66.62       |
| 479.11       | -77.75          | -74.06                    | -1.44                      | -2.25               | -13.00       | -64.75       |
| 595.51       | -76.95          | -73.06                    | -1.76                      | -2.13               | -13.00       | -63.95       |
| 870.02       | -74.78          | -70.62                    | -1.65                      | -2.51               | -13.00       | -61.78       |
| 3424.80      | -54.17          | -60.77                    | 12.40                      | -5.80               | -13.00       | -41.17       |

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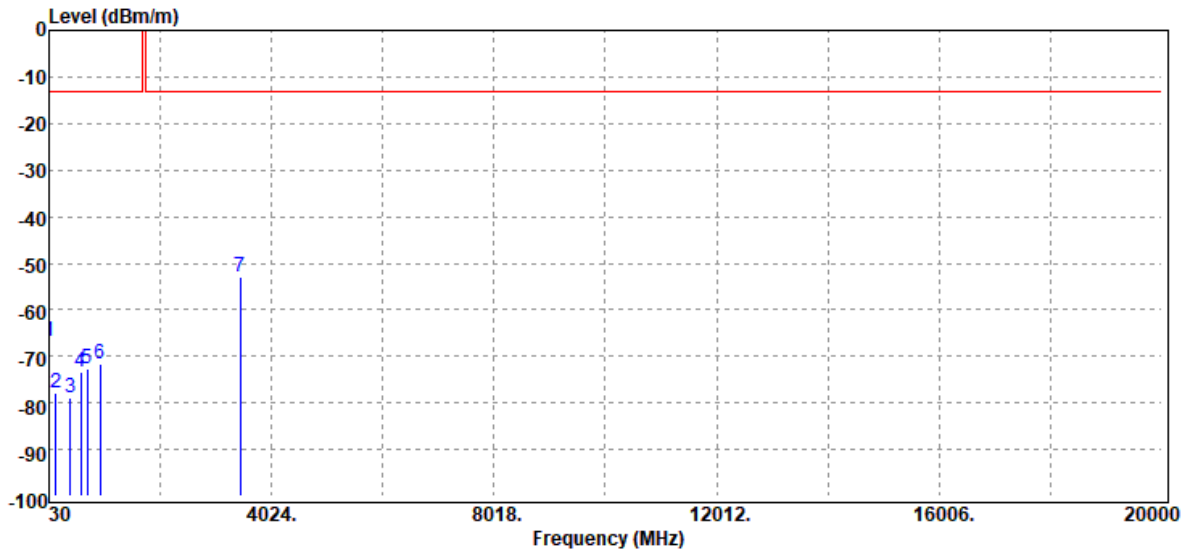
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Report Number :ER/2019/C0150  
Operation Mode :WCDMA B4  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Channel :1732.6 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :VERTICAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 33.88        | -66.89          | -46.16                    | -20.15                     | -0.58               | -13.00       | -53.89       |
| 156.10       | -77.97          | -69.40                    | -7.26                      | -1.31               | -13.00       | -64.97       |
| 410.24       | -78.79          | -75.28                    | -1.58                      | -1.93               | -13.00       | -65.79       |
| 599.39       | -73.36          | -69.23                    | -1.86                      | -2.27               | -13.00       | -60.36       |
| 720.64       | -72.83          | -69.03                    | -1.38                      | -2.42               | -13.00       | -59.83       |
| 954.41       | -71.64          | -66.45                    | -1.93                      | -3.26               | -13.00       | -58.64       |
| 3465.20      | -53.02          | -59.64                    | 12.37                      | -5.75               | -13.00       | -40.02       |

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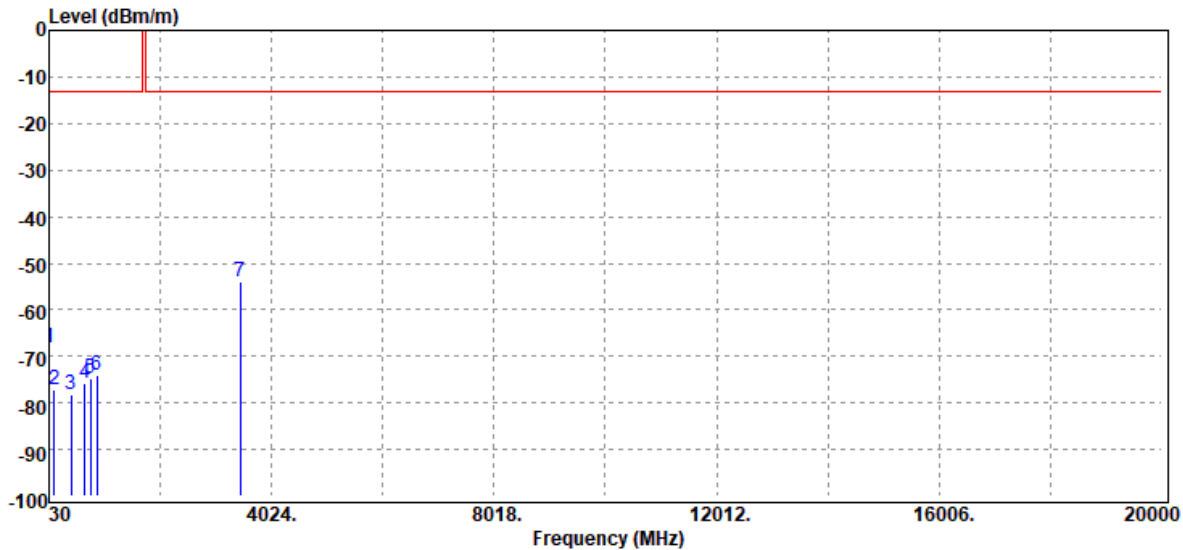
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Report Number :ER/2019/C0150  
Operation Mode :WCDMA B4  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Channel :1732.6 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 30.00        | -68.13          | -46.41                    | -21.20                     | -0.52               | -13.00       | -55.13       |
| 122.15       | -77.13          | -68.99                    | -7.10                      | -1.04               | -13.00       | -64.13       |
| 432.55       | -78.26          | -74.76                    | -1.67                      | -1.83               | -13.00       | -65.26       |
| 668.26       | -75.83          | -71.51                    | -1.31                      | -3.01               | -13.00       | -62.83       |
| 779.81       | -74.83          | -70.46                    | -1.70                      | -2.67               | -13.00       | -61.83       |
| 883.60       | -73.88          | -69.61                    | -1.71                      | -2.56               | -13.00       | -60.88       |
| 3465.20      | -53.85          | -60.47                    | 12.37                      | -5.75               | -13.00       | -40.85       |

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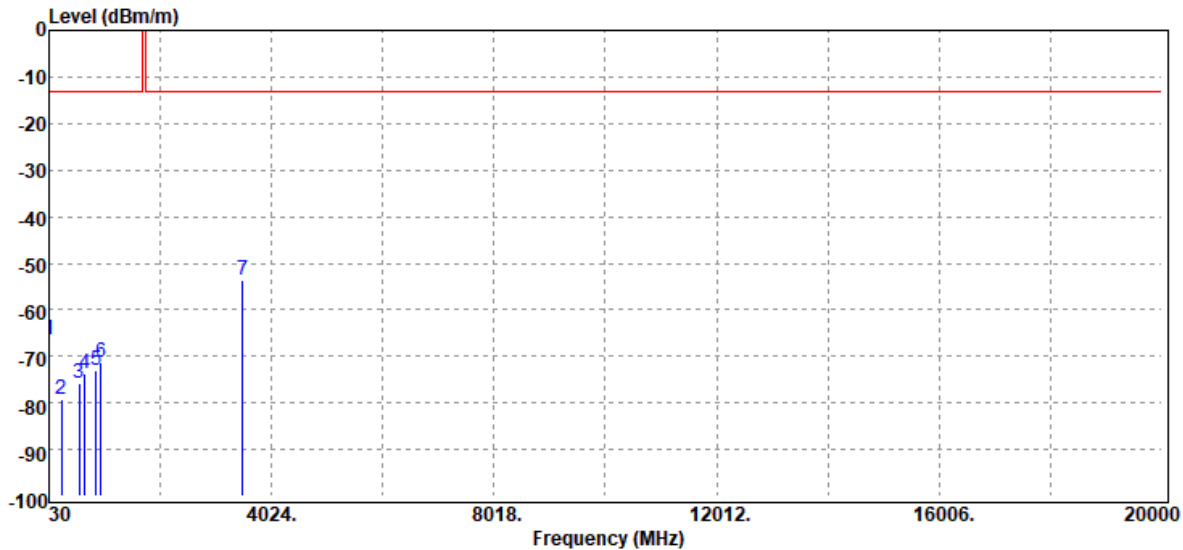
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Report Number :ER/2019/C0150  
Operation Mode :WCDMA B4  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Channel :1752.6 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :VERTICAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -66.59          | -45.53                    | -20.49                     | -0.57               | -13.00       | -53.59       |
| 256.01       | -79.13          | -75.94                    | -1.62                      | -1.57               | -13.00       | -66.13       |
| 571.26       | -75.87          | -72.24                    | -1.45                      | -2.18               | -13.00       | -62.87       |
| 679.90       | -73.75          | -69.94                    | -1.29                      | -2.52               | -13.00       | -60.75       |
| 869.05       | -73.13          | -68.94                    | -1.64                      | -2.55               | -13.00       | -60.13       |
| 968.96       | -71.39          | -66.25                    | -1.89                      | -3.25               | -13.00       | -58.39       |
| 3505.20      | -53.50          | -60.06                    | 12.28                      | -5.72               | -13.00       | -40.50       |

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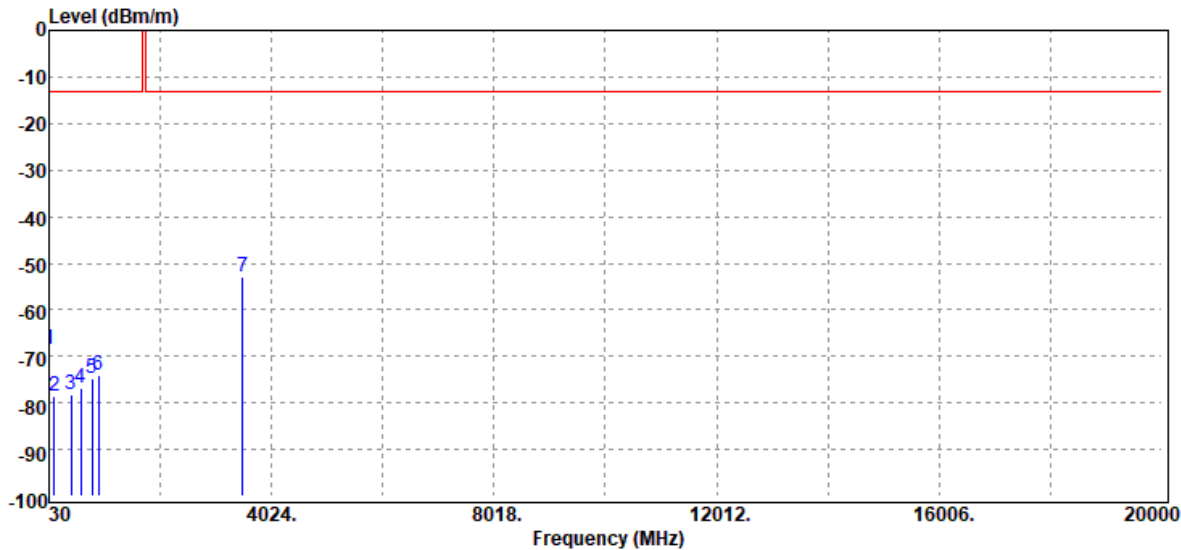
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Report Number :ER/2019/C0150  
Operation Mode :WCDMA B4  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Channel :1752.6 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -68.42          | -47.36                    | -20.49                     | -0.57               | -13.00       | -55.42       |
| 124.09       | -78.61          | -70.49                    | -7.07                      | -1.05               | -13.00       | -65.61       |
| 427.70       | -78.26          | -74.77                    | -1.62                      | -1.87               | -13.00       | -65.26       |
| 602.30       | -76.87          | -72.58                    | -1.94                      | -2.35               | -13.00       | -63.87       |
| 804.06       | -74.81          | -70.04                    | -1.61                      | -3.16               | -13.00       | -61.81       |
| 914.64       | -74.22          | -69.58                    | -1.81                      | -2.83               | -13.00       | -61.22       |
| 3505.20      | -53.04          | -59.60                    | 12.28                      | -5.72               | -13.00       | -40.04       |

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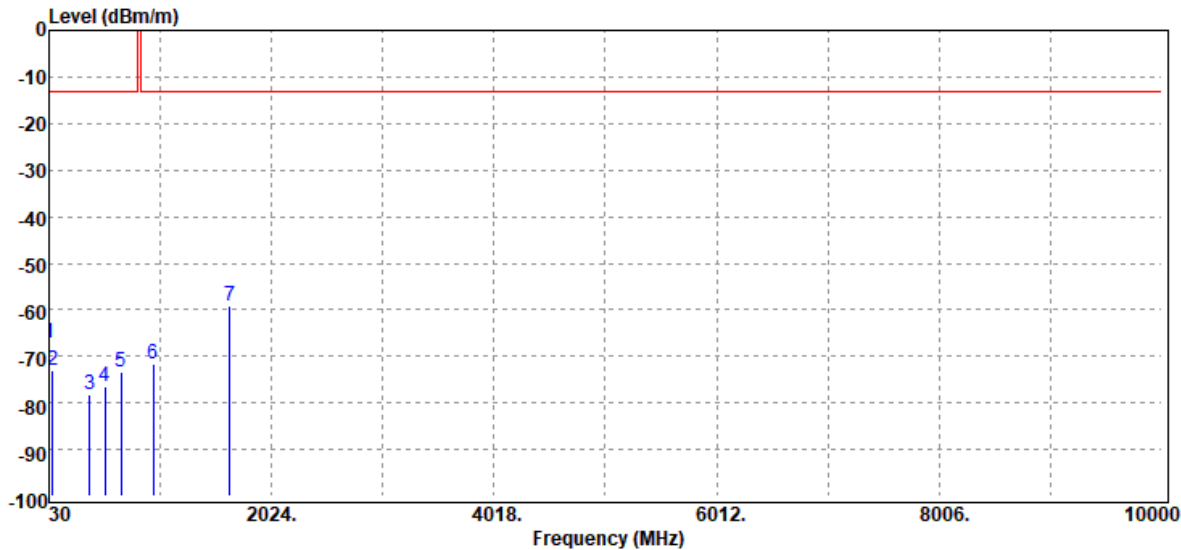
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## Radiated Spurious Emission Measurement Result: WCDMA Band 5 Mode

|                |                |              |             |
|----------------|----------------|--------------|-------------|
| Report Number  | :ER/2019/C0150 | Test Date    | :2020-01-17 |
| Operation Mode | :WCDMA B5      | Temp./Humi.  | :21.6/65    |
| Test Mode      | :Tx CH Low     | Antenna Pol. | :VERTICAL   |
| EUT Pol        | :H Plane       | Engineer     | :Thomas     |
| Test Channel   | :826.4 MHz     |              |             |



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -66.98          | -45.92                    | -20.49                     | -0.57               | -13.00       | -53.98       |
| 65.89        | -73.09          | -58.91                    | -13.40                     | -0.78               | -13.00       | -60.09       |
| 396.66       | -78.05          | -74.50                    | -1.61                      | -1.94               | -13.00       | -65.05       |
| 534.40       | -76.41          | -72.78                    | -1.38                      | -2.25               | -13.00       | -63.41       |
| 675.05       | -73.46          | -69.47                    | -1.25                      | -2.74               | -13.00       | -60.46       |
| 963.14       | -71.55          | -66.40                    | -1.86                      | -3.29               | -13.00       | -58.55       |
| 1652.80      | -59.29          | -64.60                    | 9.32                       | -4.01               | -13.00       | -46.29       |

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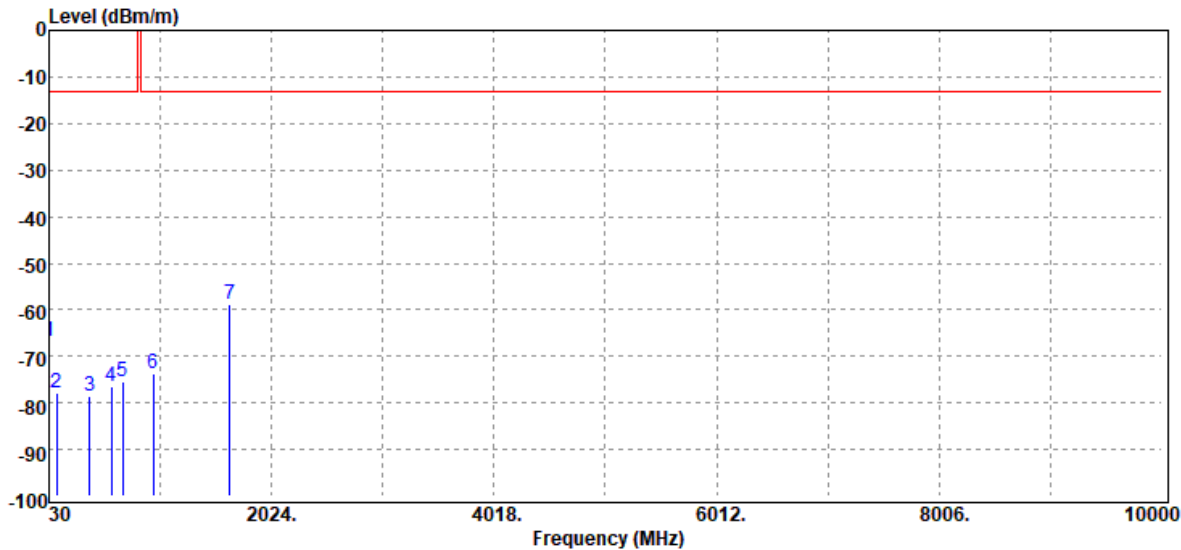
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Report Number :ER/2019/C0150  
Operation Mode :WCDMA B5  
Test Mode :Tx CH Low  
EUT Pol :H Plane  
Test Channel :826.4 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -66.95          | -45.89                    | -20.49                     | -0.57               | -13.00       | -53.95       |
| 99.84        | -77.90          | -70.81                    | -6.12                      | -0.97               | -13.00       | -64.90       |
| 393.75       | -78.41          | -74.84                    | -1.61                      | -1.96               | -13.00       | -65.41       |
| 589.69       | -76.50          | -72.85                    | -1.71                      | -1.94               | -13.00       | -63.50       |
| 686.69       | -75.39          | -71.58                    | -1.31                      | -2.50               | -13.00       | -62.39       |
| 961.20       | -73.80          | -68.61                    | -1.88                      | -3.31               | -13.00       | -60.80       |
| 1652.80      | -58.98          | -64.29                    | 9.32                       | -4.01               | -13.00       | -45.98       |

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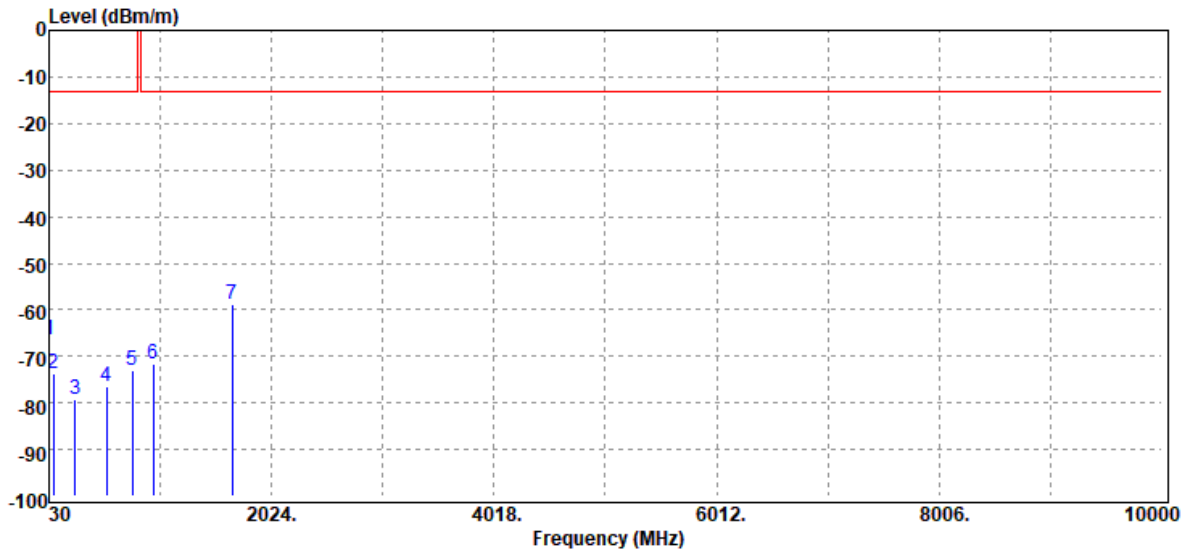
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Report Number :ER/2019/C0150  
Operation Mode :WCDMA B5  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Channel :836.6 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :VERTICAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -66.58          | -45.52                    | -20.49                     | -0.57               | -13.00       | -53.58       |
| 68.80        | -73.55          | -60.30                    | -12.45                     | -0.80               | -13.00       | -60.55       |
| 260.86       | -79.36          | -76.08                    | -1.66                      | -1.62               | -13.00       | -66.36       |
| 544.10       | -76.31          | -72.72                    | -1.41                      | -2.18               | -13.00       | -63.31       |
| 778.84       | -72.99          | -68.62                    | -1.71                      | -2.66               | -13.00       | -59.99       |
| 964.11       | -71.74          | -66.59                    | -1.86                      | -3.29               | -13.00       | -58.74       |
| 1673.20      | -58.84          | -64.30                    | 9.49                       | -4.03               | -13.00       | -45.84       |

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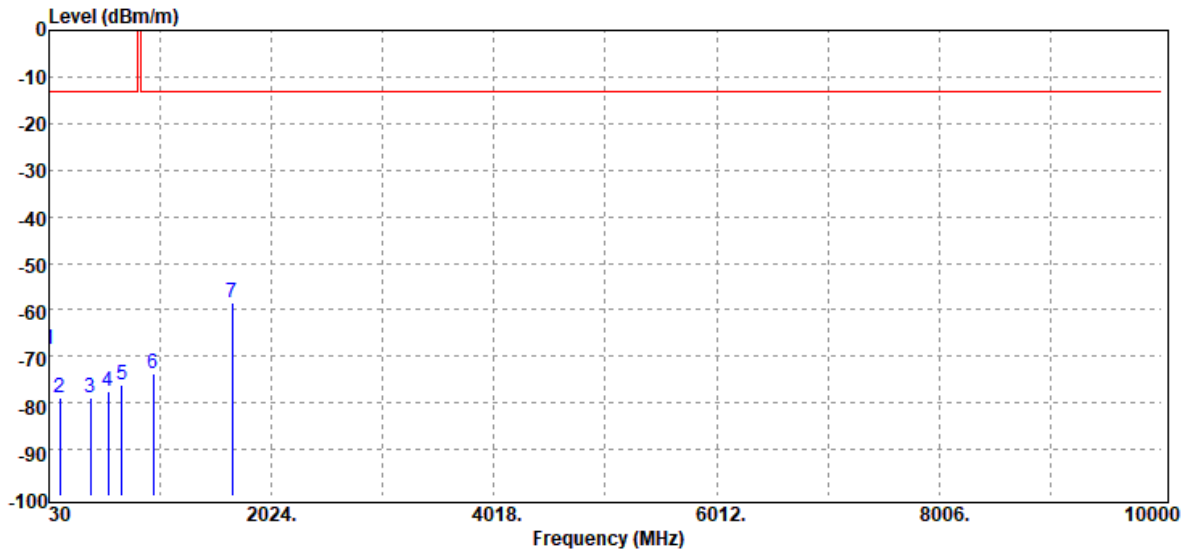
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Report Number :ER/2019/C0150  
Operation Mode :WCDMA B5  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Channel :836.6 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -68.67          | -47.61                    | -20.49                     | -0.57               | -13.00       | -55.67       |
| 124.09       | -78.79          | -70.67                    | -7.07                      | -1.05               | -13.00       | -65.79       |
| 398.60       | -79.01          | -75.48                    | -1.60                      | -1.93               | -13.00       | -66.01       |
| 560.59       | -77.63          | -73.95                    | -1.38                      | -2.30               | -13.00       | -64.63       |
| 684.75       | -76.12          | -72.29                    | -1.33                      | -2.50               | -13.00       | -63.12       |
| 966.05       | -73.72          | -68.59                    | -1.86                      | -3.27               | -13.00       | -60.72       |
| 1673.20      | -58.38          | -63.84                    | 9.49                       | -4.03               | -13.00       | -45.38       |

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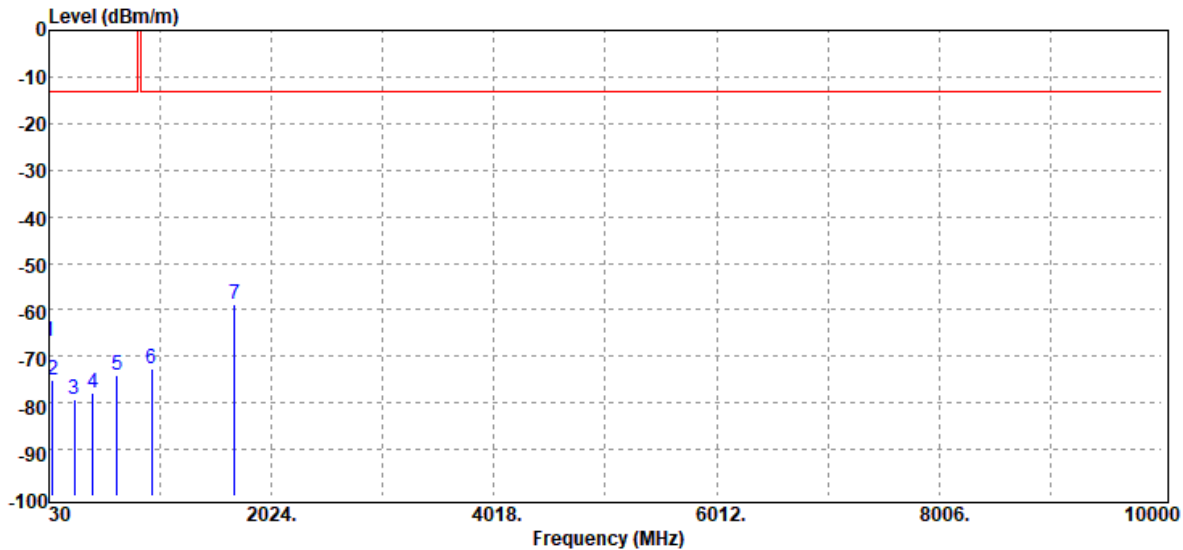
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Report Number :ER/2019/C0150  
Operation Mode :WCDMA B5  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Channel :846.6 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :VERTICAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -66.71          | -45.65                    | -20.49                     | -0.57               | -13.00       | -53.71       |
| 65.89        | -75.12          | -60.94                    | -13.40                     | -0.78               | -13.00       | -62.12       |
| 256.01       | -79.29          | -76.10                    | -1.62                      | -1.57               | -13.00       | -66.29       |
| 419.94       | -77.89          | -74.24                    | -1.68                      | -1.97               | -13.00       | -64.89       |
| 638.19       | -74.02          | -69.99                    | -1.54                      | -2.49               | -13.00       | -61.02       |
| 949.56       | -72.83          | -67.74                    | -1.88                      | -3.21               | -13.00       | -59.83       |
| 1693.20      | -58.84          | -64.44                    | 9.65                       | -4.05               | -13.00       | -45.84       |

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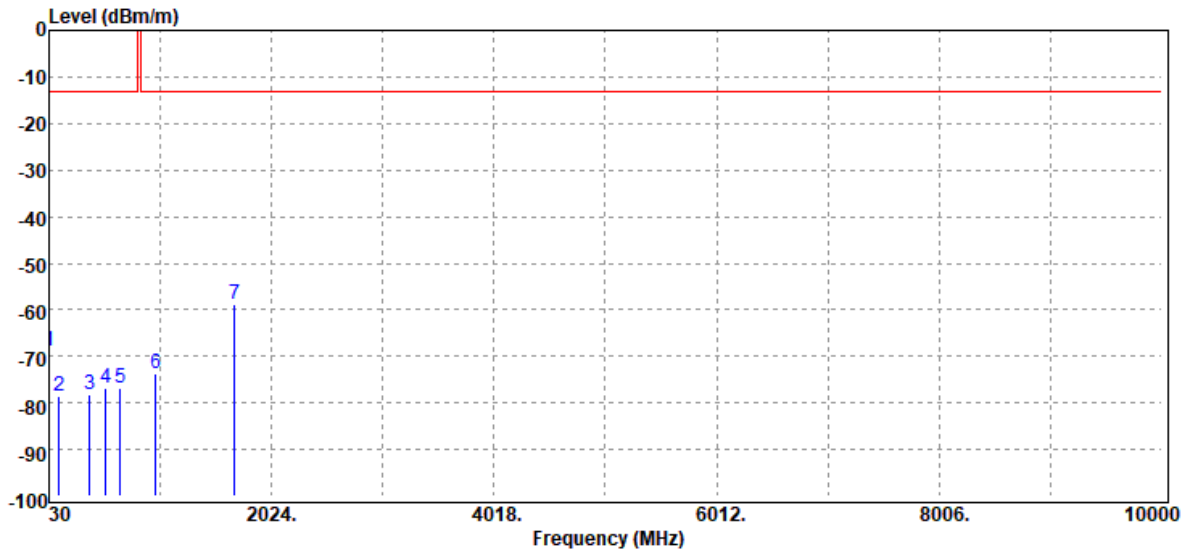
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Report Number :ER/2019/C0150  
Operation Mode :WCDMA B5  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Channel :846.6 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 30.00        | -68.91          | -47.19                    | -21.20                     | -0.52               | -13.00       | -55.91       |
| 122.15       | -78.55          | -70.41                    | -7.10                      | -1.04               | -13.00       | -65.55       |
| 393.75       | -78.09          | -74.52                    | -1.61                      | -1.96               | -13.00       | -65.09       |
| 536.34       | -76.97          | -73.37                    | -1.38                      | -2.22               | -13.00       | -63.97       |
| 670.20       | -76.74          | -72.46                    | -1.32                      | -2.96               | -13.00       | -63.74       |
| 982.54       | -73.68          | -68.64                    | -1.74                      | -3.30               | -13.00       | -60.68       |
| 1693.20      | -58.72          | -64.32                    | 9.65                       | -4.05               | -13.00       | -45.72       |

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## Radiated Spurious Emission Measurement Result: LTE-Band 2 (The Worst Case)

Report Number :ER/2019/C0150

Test Date :2020-01-17

Operation Mode :LTE B2

Temp./Humi. :21.6/65

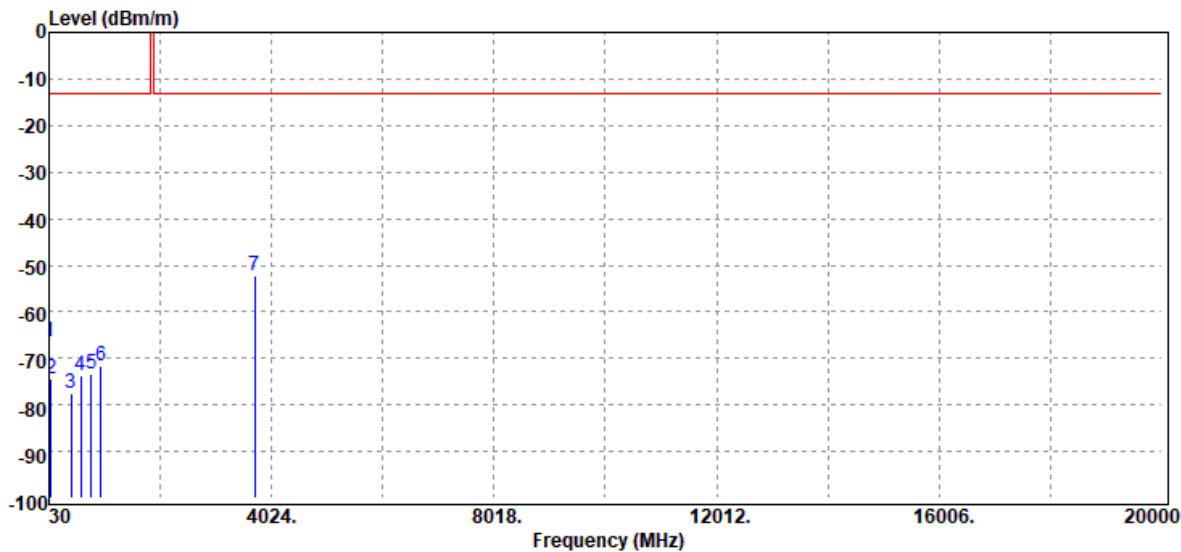
Test Mode :Tx CH Low

Antenna Pol. :VERTICAL

EUT Pol :H Plane

Engineer :Thomas

Test Channel :1860 MHz



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -66.42          | -45.36                    | -20.49                     | -0.57               | -13.00       | -53.42       |
| 65.89        | -74.27          | -60.09                    | -13.40                     | -0.78               | -13.00       | -61.27       |
| 422.85       | -77.65          | -74.10                    | -1.62                      | -1.93               | -13.00       | -64.65       |
| 594.54       | -73.57          | -69.72                    | -1.75                      | -2.10               | -13.00       | -60.57       |
| 784.66       | -73.31          | -68.85                    | -1.64                      | -2.82               | -13.00       | -60.31       |
| 959.26       | -71.60          | -66.39                    | -1.90                      | -3.31               | -13.00       | -58.60       |
| 3720.00      | -52.14          | -58.54                    | 12.36                      | -5.96               | -13.00       | -39.14       |

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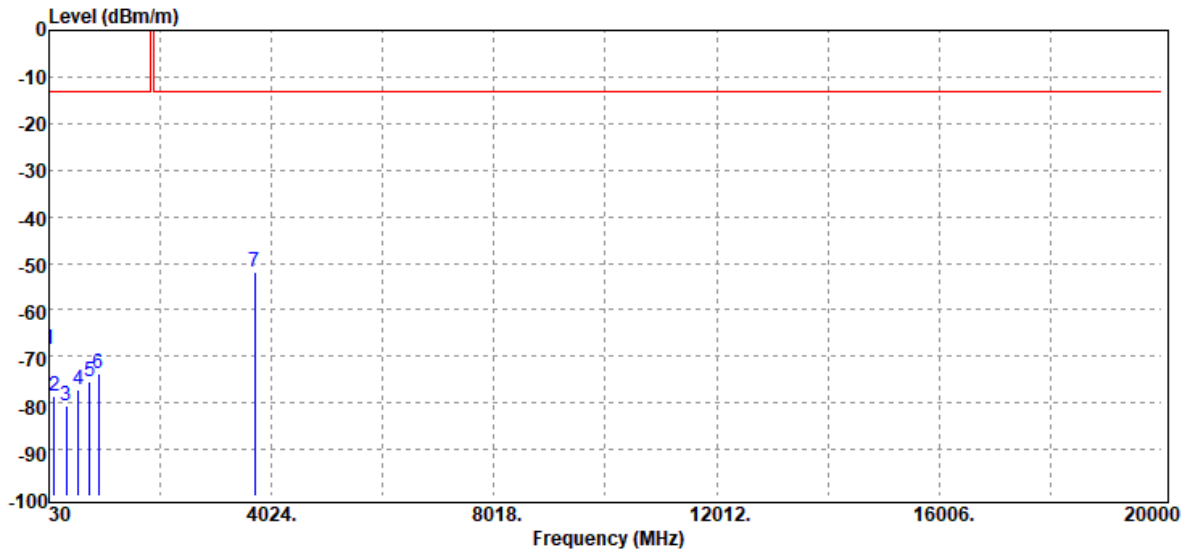
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Report Number :ER/2019/C0150  
Operation Mode :LTE B2  
Test Mode :Tx CH Low  
EUT Pol :H Plane  
Test Channel :1860 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -68.34          | -47.28                    | -20.49                     | -0.57               | -13.00       | -55.34       |
| 119.24       | -78.44          | -70.31                    | -7.11                      | -1.02               | -13.00       | -65.44       |
| 345.25       | -80.72          | -77.26                    | -1.57                      | -1.89               | -13.00       | -67.72       |
| 558.65       | -77.19          | -73.50                    | -1.40                      | -2.29               | -13.00       | -64.19       |
| 754.59       | -75.26          | -70.92                    | -1.78                      | -2.56               | -13.00       | -62.26       |
| 919.49       | -73.62          | -68.84                    | -1.94                      | -2.84               | -13.00       | -60.62       |
| 3720.00      | -51.75          | -58.15                    | 12.36                      | -5.96               | -13.00       | -38.75       |

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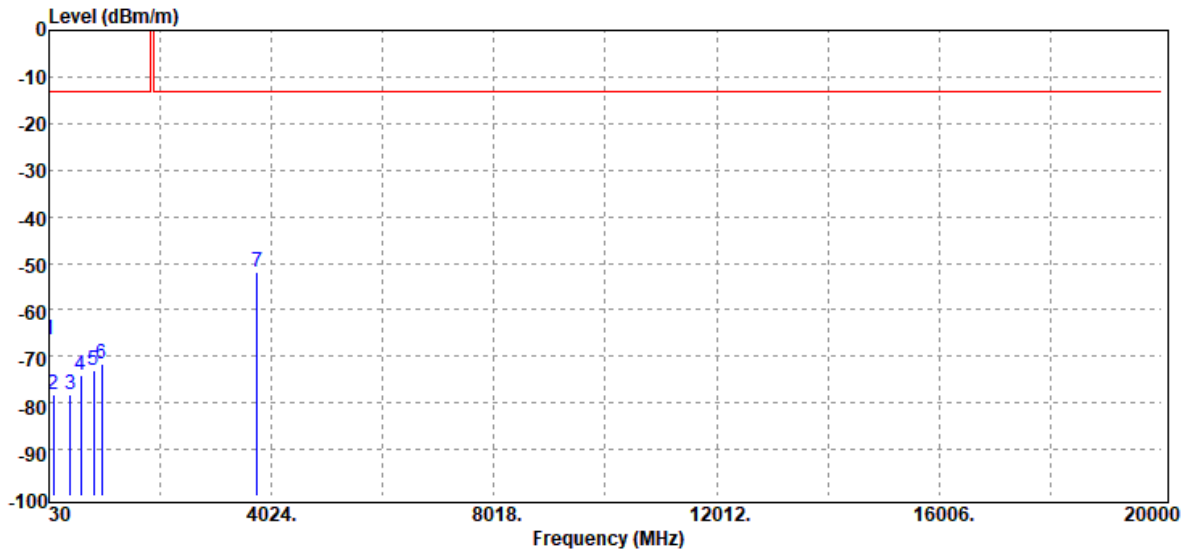
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Report Number :ER/2019/C0150  
Operation Mode :LTE B2  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Channel :1880 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :VERTICAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -66.57          | -45.51                    | -20.49                     | -0.57               | -13.00       | -53.57       |
| 115.36       | -78.23          | -70.07                    | -7.14                      | -1.02               | -13.00       | -65.23       |
| 416.06       | -78.08          | -74.52                    | -1.60                      | -1.96               | -13.00       | -65.08       |
| 600.36       | -74.02          | -69.83                    | -1.89                      | -2.30               | -13.00       | -61.02       |
| 827.34       | -72.86          | -68.15                    | -1.73                      | -2.98               | -13.00       | -59.86       |
| 978.66       | -71.50          | -66.41                    | -1.80                      | -3.29               | -13.00       | -58.50       |
| 3760.00      | -51.78          | -58.06                    | 12.30                      | -6.02               | -13.00       | -38.78       |

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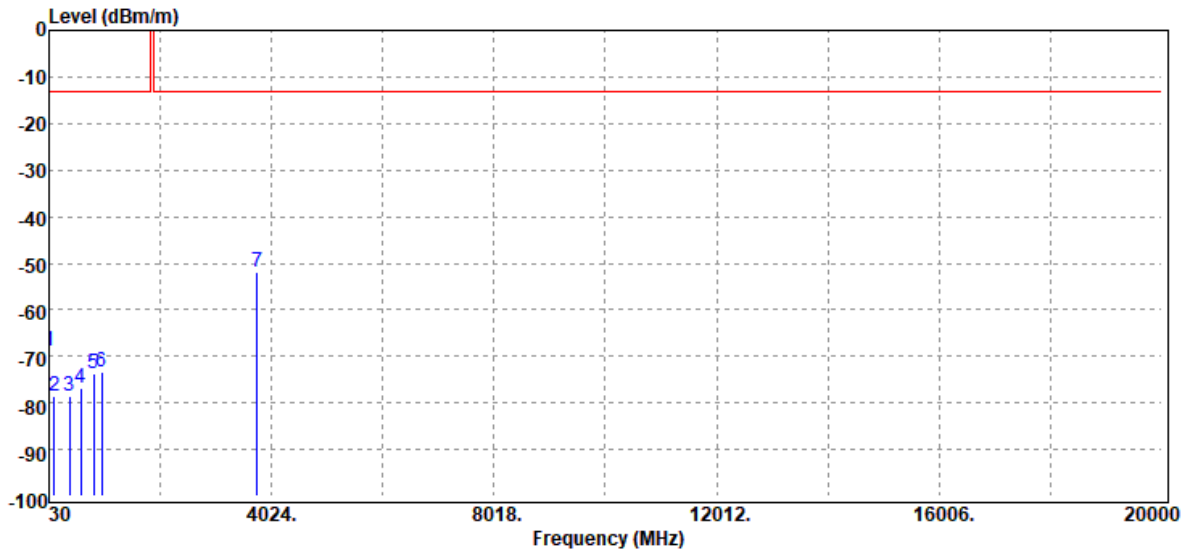
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Report Number :ER/2019/C0150  
Operation Mode :LTE B2  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Channel :1880 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -68.69          | -47.63                    | -20.49                     | -0.57               | -13.00       | -55.69       |
| 125.06       | -78.70          | -70.54                    | -7.10                      | -1.06               | -13.00       | -65.70       |
| 391.81       | -78.68          | -75.09                    | -1.62                      | -1.97               | -13.00       | -65.68       |
| 594.54       | -76.73          | -72.88                    | -1.75                      | -2.10               | -13.00       | -63.73       |
| 835.10       | -73.64          | -68.84                    | -1.81                      | -2.99               | -13.00       | -60.64       |
| 972.84       | -73.46          | -68.38                    | -1.82                      | -3.26               | -13.00       | -60.46       |
| 3760.00      | -51.92          | -58.20                    | 12.30                      | -6.02               | -13.00       | -38.92       |

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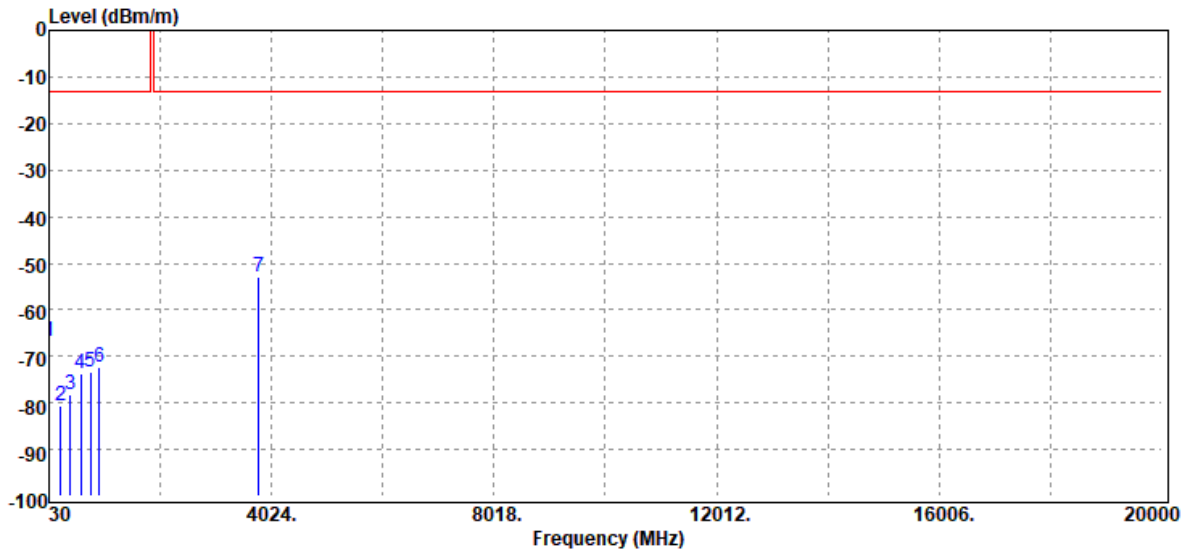
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Report Number :ER/2019/C0150  
Operation Mode :LTE B2  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Channel :1900 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :VERTICAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -66.72          | -45.66                    | -20.49                     | -0.57               | -13.00       | -53.72       |
| 233.70       | -80.73          | -77.63                    | -1.62                      | -1.48               | -13.00       | -67.73       |
| 419.94       | -78.33          | -74.68                    | -1.68                      | -1.97               | -13.00       | -65.33       |
| 595.51       | -73.77          | -69.88                    | -1.76                      | -2.13               | -13.00       | -60.77       |
| 774.96       | -73.38          | -69.00                    | -1.75                      | -2.63               | -13.00       | -60.38       |
| 934.04       | -72.37          | -67.51                    | -1.91                      | -2.95               | -13.00       | -59.37       |
| 3800.00      | -52.79          | -59.02                    | 12.30                      | -6.07               | -13.00       | -39.79       |

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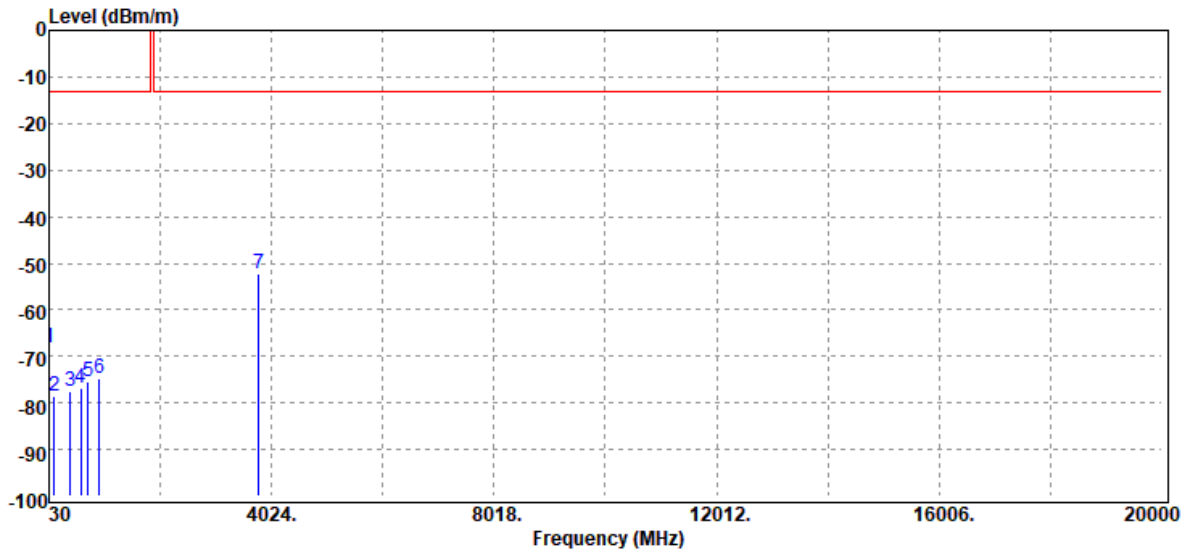
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Report Number :ER/2019/C0150  
Operation Mode :LTE B2  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Channel :1900 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -68.22          | -47.16                    | -20.49                     | -0.57               | -13.00       | -55.22       |
| 124.09       | -78.42          | -70.30                    | -7.07                      | -1.05               | -13.00       | -65.42       |
| 410.24       | -77.44          | -73.93                    | -1.58                      | -1.93               | -13.00       | -64.44       |
| 595.51       | -76.99          | -73.10                    | -1.76                      | -2.13               | -13.00       | -63.99       |
| 735.19       | -75.49          | -71.74                    | -1.52                      | -2.23               | -13.00       | -62.49       |
| 927.25       | -74.57          | -69.78                    | -1.90                      | -2.89               | -13.00       | -61.57       |
| 3800.00      | -52.36          | -58.59                    | 12.30                      | -6.07               | -13.00       | -39.36       |

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# Radiated Spurious Emission Measurement Result: LTE-Band 4 (The Worst Case)

Report Number :ER/2019/C0150

Test Date :2020-01-17

Operation Mode :LTE B4

Temp./Humi. :21.6/65

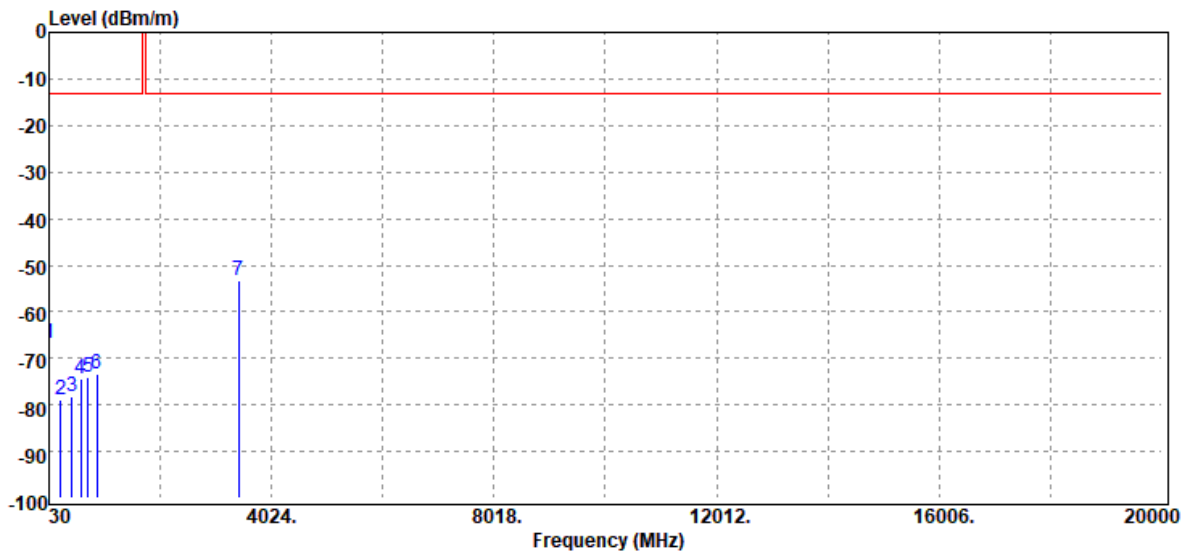
Test Mode :Tx CH Low

Antenna Pol. :VERTICAL

EUT Pol :H Plane

Engineer :Thomas

Test Channel :1720 MHz



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -66.73          | -45.67                    | -20.49                     | -0.57               | -13.00       | -53.73       |
| 236.61       | -78.89          | -75.77                    | -1.66                      | -1.46               | -13.00       | -65.89       |
| 437.40       | -78.33          | -74.78                    | -1.72                      | -1.83               | -13.00       | -65.33       |
| 594.54       | -74.41          | -70.56                    | -1.75                      | -2.10               | -13.00       | -61.41       |
| 728.40       | -73.92          | -70.26                    | -1.43                      | -2.23               | -13.00       | -60.92       |
| 883.60       | -73.24          | -68.97                    | -1.71                      | -2.56               | -13.00       | -60.24       |
| 3440.00      | -53.24          | -59.86                    | 12.40                      | -5.78               | -13.00       | -40.24       |

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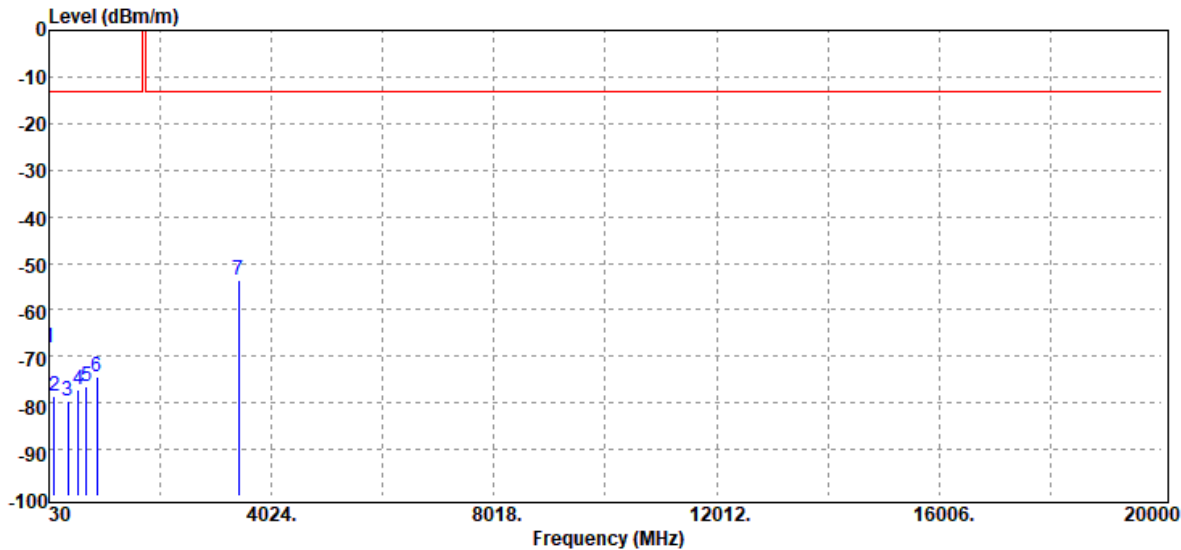
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Report Number :ER/2019/C0150  
Operation Mode :LTE B4  
Test Mode :Tx CH Low  
EUT Pol :H Plane  
Test Channel :1720 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 30.00        | -68.33          | -46.61                    | -21.20                     | -0.52               | -13.00       | -55.33       |
| 125.06       | -78.58          | -70.42                    | -7.10                      | -1.06               | -13.00       | -65.58       |
| 369.50       | -79.42          | -75.93                    | -1.58                      | -1.91               | -13.00       | -66.42       |
| 553.80       | -77.06          | -73.36                    | -1.45                      | -2.25               | -13.00       | -64.06       |
| 704.15       | -76.60          | -72.69                    | -1.29                      | -2.62               | -13.00       | -63.60       |
| 883.60       | -74.38          | -70.11                    | -1.71                      | -2.56               | -13.00       | -61.38       |
| 3440.00      | -53.64          | -60.26                    | 12.40                      | -5.78               | -13.00       | -40.64       |

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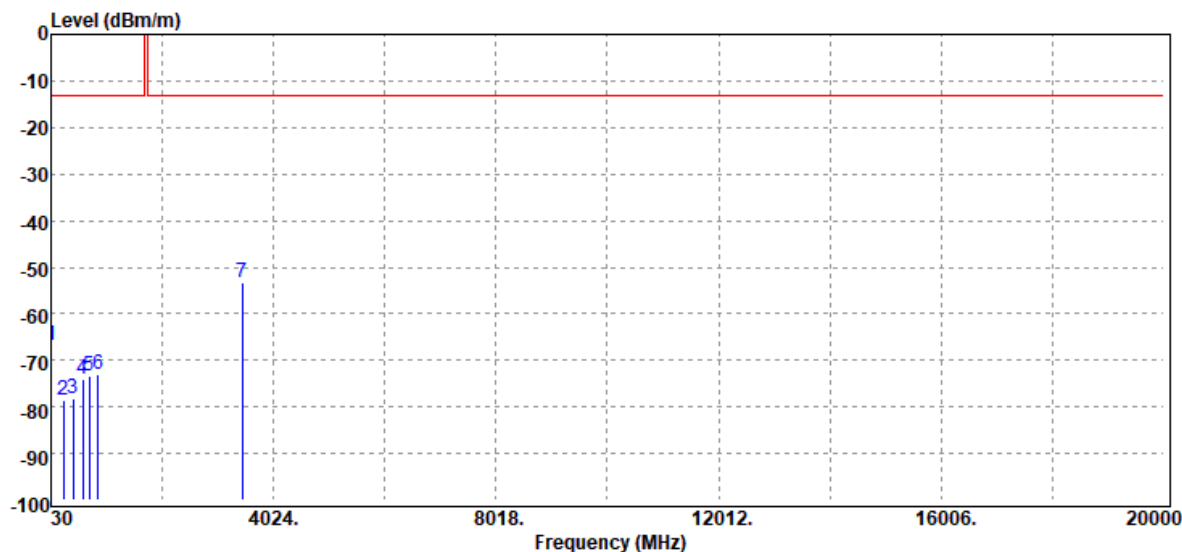
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Report Number :ER/2019/C0150  
Operation Mode :LTE B4  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Channel :1732.5 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :VERTICAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -66.66          | -45.60                    | -20.49                     | -0.57               | -13.00       | -53.66       |
| 257.95       | -78.60          | -75.37                    | -1.63                      | -1.60               | -13.00       | -65.60       |
| 429.64       | -78.37          | -74.87                    | -1.66                      | -1.84               | -13.00       | -65.37       |
| 597.45       | -73.92          | -69.91                    | -1.81                      | -2.20               | -13.00       | -60.92       |
| 716.76       | -73.26          | -69.40                    | -1.36                      | -2.50               | -13.00       | -60.26       |
| 870.99       | -73.13          | -68.96                    | -1.66                      | -2.51               | -13.00       | -60.13       |
| 3465.00      | -53.16          | -59.78                    | 12.37                      | -5.75               | -13.00       | -40.16       |

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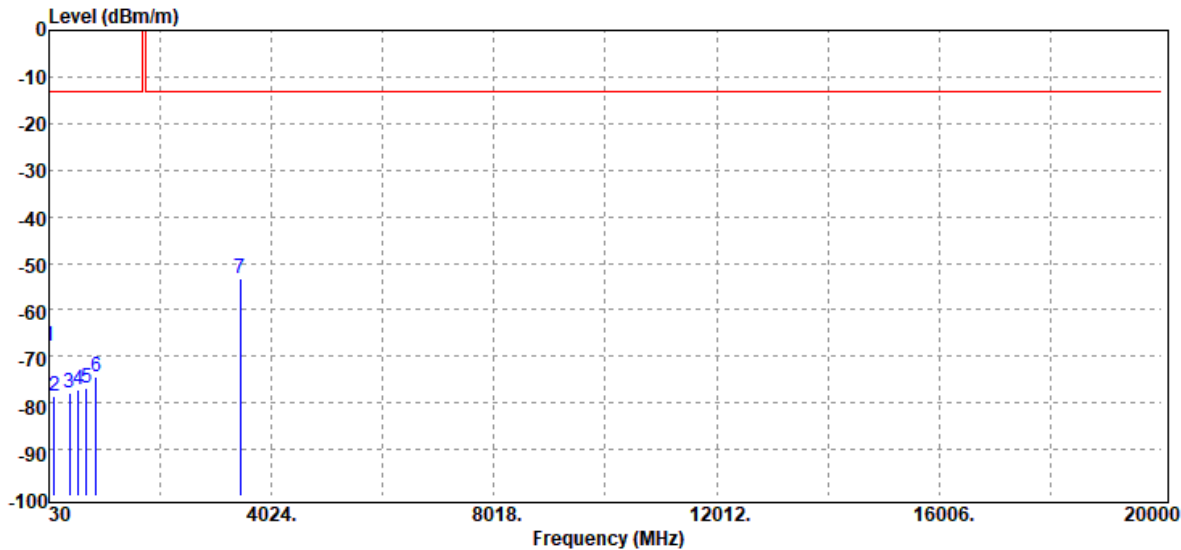
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Report Number :ER/2019/C0150  
Operation Mode :LTE B4  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Channel :1732.5 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -67.96          | -46.90                    | -20.49                     | -0.57               | -13.00       | -54.96       |
| 120.21       | -78.48          | -70.40                    | -7.06                      | -1.02               | -13.00       | -65.48       |
| 403.45       | -77.85          | -74.33                    | -1.59                      | -1.93               | -13.00       | -64.85       |
| 550.89       | -77.33          | -73.68                    | -1.43                      | -2.22               | -13.00       | -64.33       |
| 702.21       | -76.84          | -72.91                    | -1.31                      | -2.62               | -13.00       | -63.84       |
| 880.69       | -74.53          | -70.28                    | -1.74                      | -2.51               | -13.00       | -61.53       |
| 3465.00      | -53.34          | -59.96                    | 12.37                      | -5.75               | -13.00       | -40.34       |

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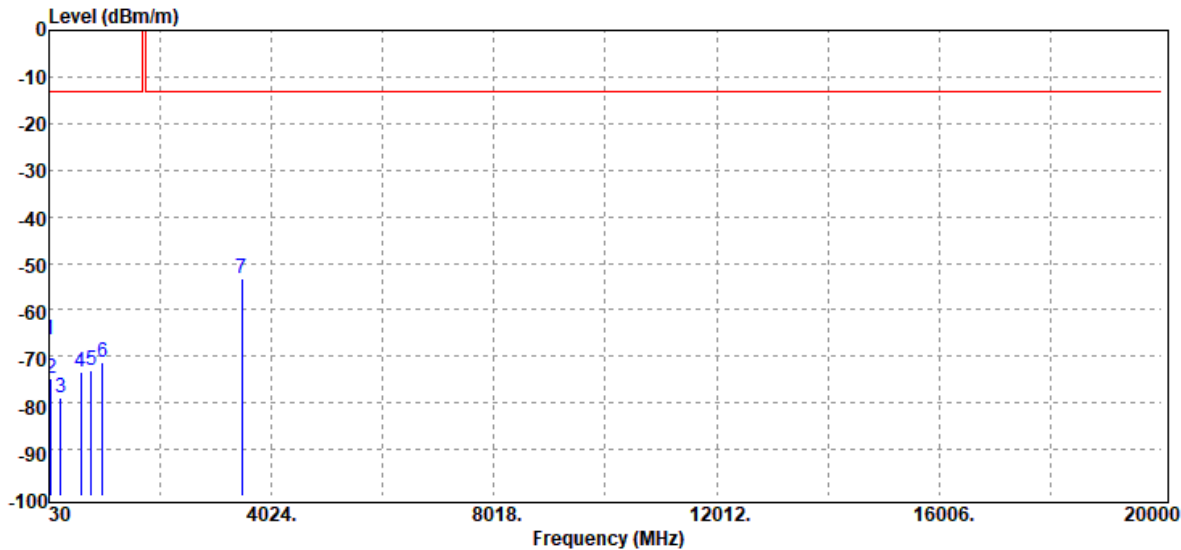
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Report Number :ER/2019/C0150  
Operation Mode :LTE B4  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Channel :1745 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :VERTICAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -66.45          | -45.39                    | -20.49                     | -0.57               | -13.00       | -53.45       |
| 66.86        | -74.63          | -60.69                    | -13.15                     | -0.79               | -13.00       | -61.63       |
| 243.40       | -78.89          | -75.74                    | -1.69                      | -1.46               | -13.00       | -65.89       |
| 605.21       | -73.21          | -68.79                    | -2.00                      | -2.42               | -13.00       | -60.21       |
| 784.66       | -73.11          | -68.65                    | -1.64                      | -2.82               | -13.00       | -60.11       |
| 988.36       | -71.37          | -66.45                    | -1.64                      | -3.28               | -13.00       | -58.37       |
| 3490.00      | -53.17          | -59.78                    | 12.32                      | -5.71               | -13.00       | -40.17       |

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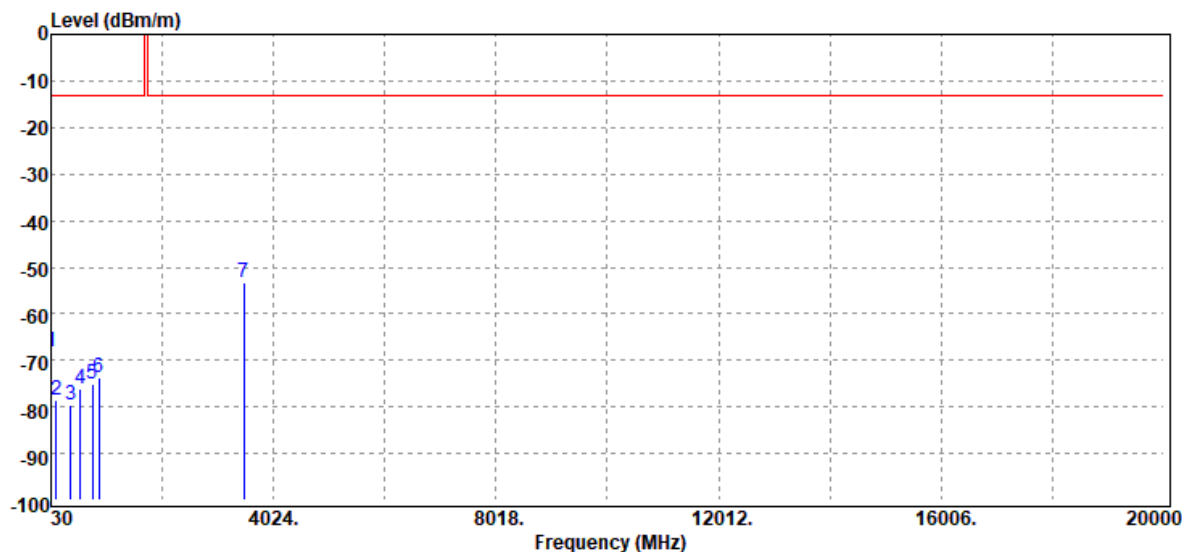
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Report Number :ER/2019/C0150  
Operation Mode :LTE B4  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Channel :1745 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -68.23          | -47.17                    | -20.49                     | -0.57               | -13.00       | -55.23       |
| 127.00       | -78.51          | -70.27                    | -7.16                      | -1.08               | -13.00       | -65.51       |
| 386.96       | -79.75          | -76.15                    | -1.63                      | -1.97               | -13.00       | -66.75       |
| 555.74       | -76.13          | -72.42                    | -1.44                      | -2.27               | -13.00       | -63.13       |
| 774.96       | -75.16          | -70.78                    | -1.75                      | -2.63               | -13.00       | -62.16       |
| 885.54       | -73.73          | -69.42                    | -1.71                      | -2.60               | -13.00       | -60.73       |
| 3490.00      | -53.16          | -59.77                    | 12.32                      | -5.71               | -13.00       | -40.16       |

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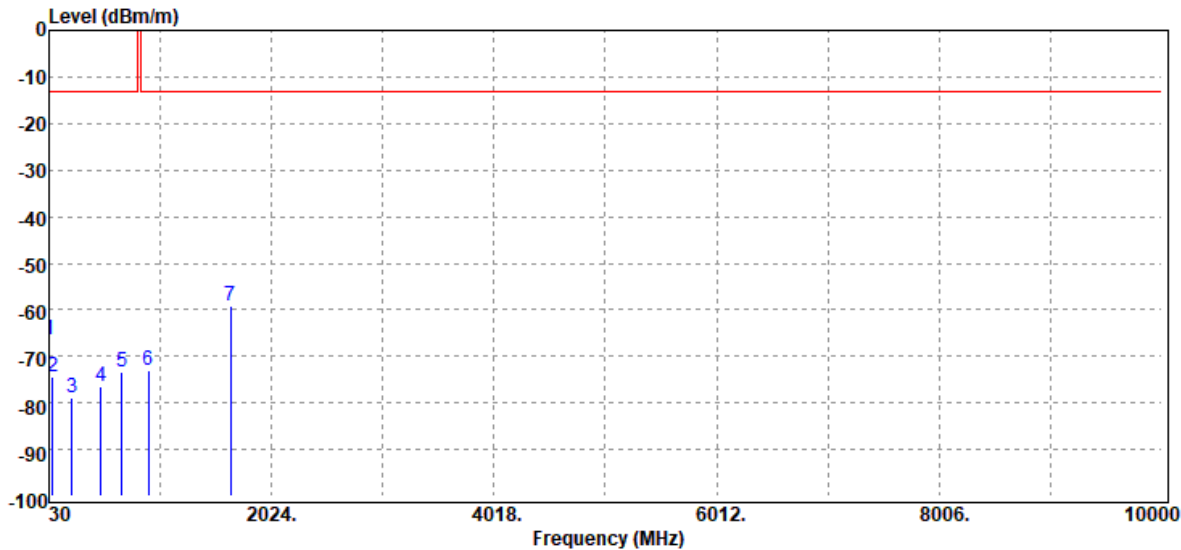
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## Radiated Spurious Emission Measurement Result: LTE-Band 5 (The Worst Case)

|                |                |              |             |
|----------------|----------------|--------------|-------------|
| Report Number  | :ER/2019/C0150 | Test Date    | :2020-01-17 |
| Operation Mode | :LTE B5        | Temp./Humi.  | :21.6/65    |
| Test Mode      | :Tx CH Low     | Antenna Pol. | :VERTICAL   |
| EUT Pol        | :H Plane       | Engineer     | :Thomas     |
| Test Channel   | :829 MHz       |              |             |



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -66.53          | -45.47                    | -20.49                     | -0.57               | -13.00       | -53.53       |
| 65.89        | -74.37          | -60.19                    | -13.40                     | -0.78               | -13.00       | -61.37       |
| 238.55       | -78.84          | -75.69                    | -1.71                      | -1.44               | -13.00       | -65.84       |
| 492.69       | -76.56          | -72.77                    | -1.55                      | -2.24               | -13.00       | -63.56       |
| 682.81       | -73.32          | -69.50                    | -1.31                      | -2.51               | -13.00       | -60.32       |
| 917.55       | -72.90          | -68.17                    | -1.89                      | -2.84               | -13.00       | -59.90       |
| 1658.00      | -59.18          | -64.52                    | 9.36                       | -4.02               | -13.00       | -46.18       |

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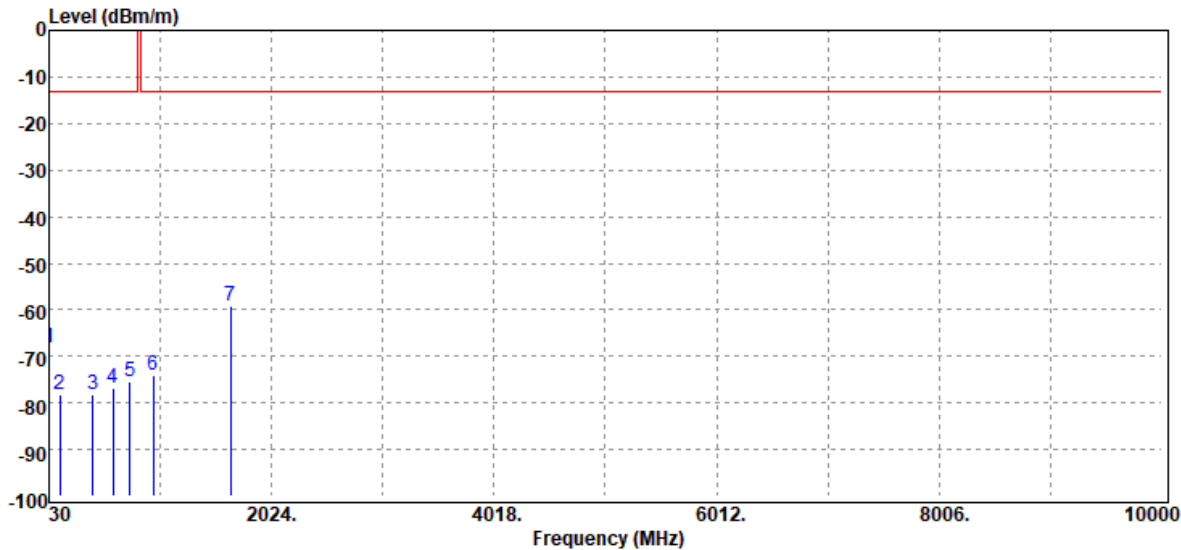
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Report Number :ER/2019/C0150  
Operation Mode :LTE B5  
Test Mode :Tx CH Low  
EUT Pol :H Plane  
Test Channel :829 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -68.22          | -47.16                    | -20.49                     | -0.57               | -13.00       | -55.22       |
| 128.94       | -78.28          | -69.96                    | -7.23                      | -1.09               | -13.00       | -65.28       |
| 420.91       | -78.14          | -74.52                    | -1.66                      | -1.96               | -13.00       | -65.14       |
| 602.30       | -76.83          | -72.54                    | -1.94                      | -2.35               | -13.00       | -63.83       |
| 755.56       | -75.47          | -71.12                    | -1.78                      | -2.57               | -13.00       | -62.47       |
| 966.05       | -73.90          | -68.77                    | -1.86                      | -3.27               | -13.00       | -60.90       |
| 1658.00      | -59.09          | -64.43                    | 9.36                       | -4.02               | -13.00       | -46.09       |

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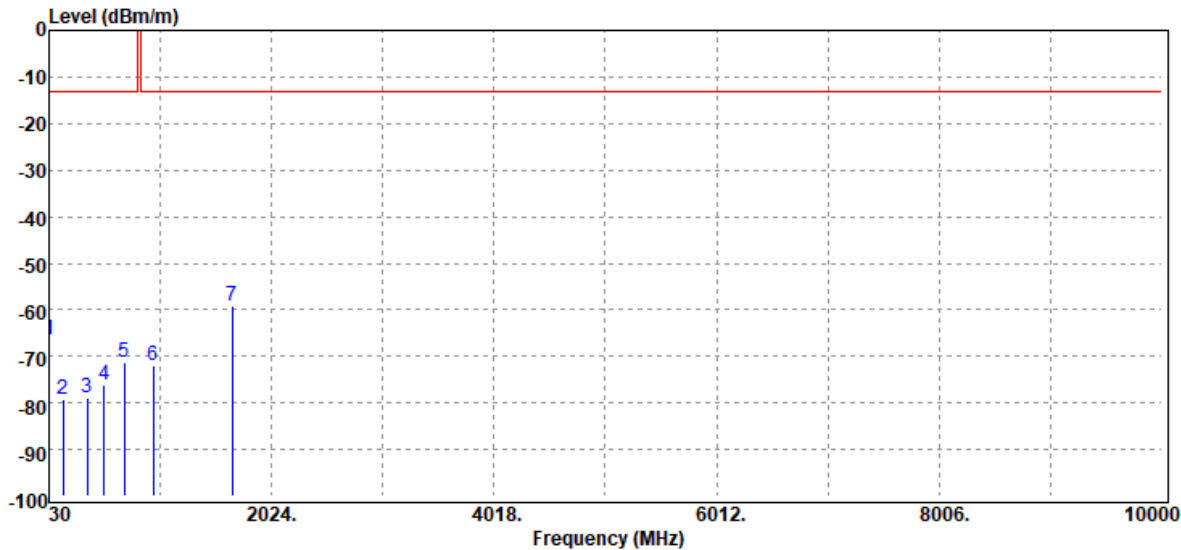
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Report Number :ER/2019/C0150  
Operation Mode :LTE B5  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Channel :836.5 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :VERTICAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -66.55          | -45.49                    | -20.49                     | -0.57               | -13.00       | -53.55       |
| 155.13       | -79.15          | -70.54                    | -7.32                      | -1.29               | -13.00       | -66.15       |
| 369.50       | -78.94          | -75.45                    | -1.58                      | -1.91               | -13.00       | -65.94       |
| 526.64       | -76.09          | -72.24                    | -1.44                      | -2.41               | -13.00       | -63.09       |
| 707.06       | -71.38          | -67.46                    | -1.29                      | -2.63               | -13.00       | -58.38       |
| 966.05       | -72.12          | -66.99                    | -1.86                      | -3.27               | -13.00       | -59.12       |
| 1673.00      | -59.02          | -64.48                    | 9.49                       | -4.03               | -13.00       | -46.02       |

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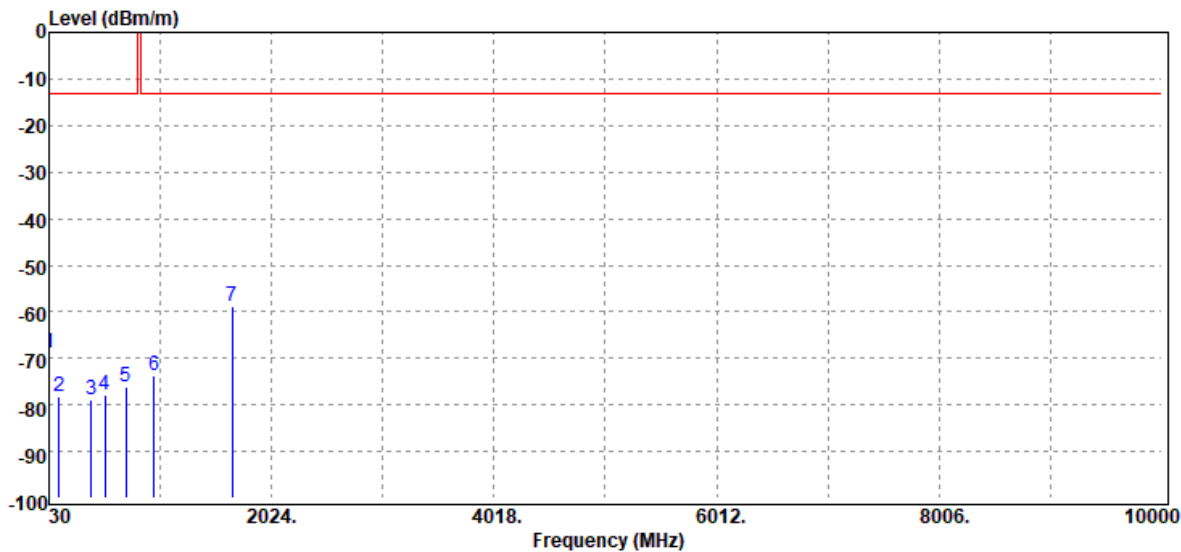
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Report Number :ER/2019/C0150  
Operation Mode :LTE B5  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Channel :836.5 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas


| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -68.90          | -47.84                    | -20.49                     | -0.57               | -13.00       | -55.90       |
| 120.21       | -78.08          | -70.00                    | -7.06                      | -1.02               | -13.00       | -65.08       |
| 405.39       | -78.74          | -75.22                    | -1.59                      | -1.93               | -13.00       | -65.74       |
| 532.46       | -77.69          | -74.00                    | -1.41                      | -2.28               | -13.00       | -64.69       |
| 716.76       | -76.29          | -72.43                    | -1.36                      | -2.50               | -13.00       | -63.29       |
| 970.90       | -73.82          | -68.70                    | -1.87                      | -3.25               | -13.00       | -60.82       |
| 1673.00      | -58.97          | -64.43                    | 9.49                       | -4.03               | -13.00       | -45.97       |

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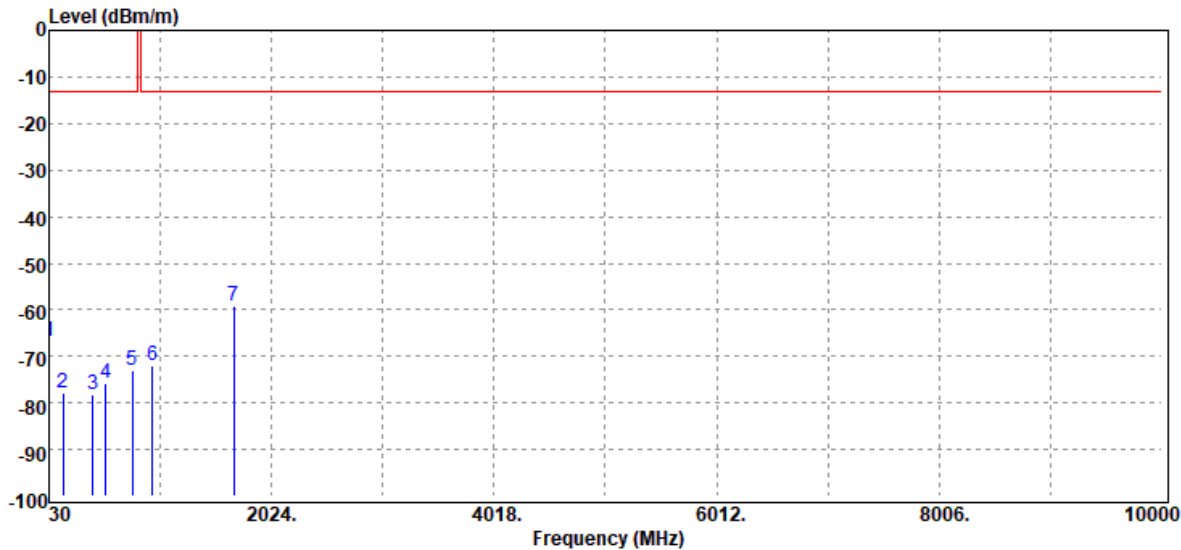
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Report Number :ER/2019/C0150  
Operation Mode :LTE B5  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Channel :844 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :VERTICAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 33.88        | -66.92          | -46.19                    | -20.15                     | -0.58               | -13.00       | -53.92       |
| 154.16       | -77.99          | -69.25                    | -7.46                      | -1.28               | -13.00       | -64.99       |
| 422.85       | -78.11          | -74.56                    | -1.62                      | -1.93               | -13.00       | -65.11       |
| 537.31       | -75.69          | -72.11                    | -1.38                      | -2.20               | -13.00       | -62.69       |
| 774.96       | -72.89          | -68.51                    | -1.75                      | -2.63               | -13.00       | -59.89       |
| 954.41       | -72.02          | -66.83                    | -1.93                      | -3.26               | -13.00       | -59.02       |
| 1688.00      | -59.27          | -64.83                    | 9.61                       | -4.05               | -13.00       | -46.27       |

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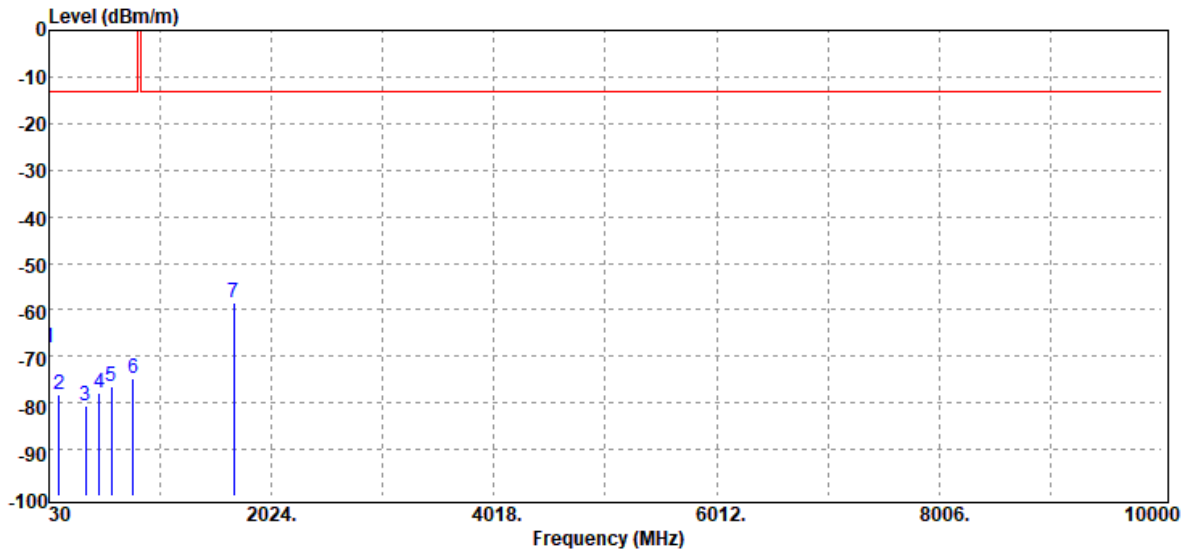
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Report Number :ER/2019/C0150  
Operation Mode :LTE B5  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Channel :844 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 33.88        | -68.09          | -47.36                    | -20.15                     | -0.58               | -13.00       | -55.09       |
| 122.15       | -78.20          | -70.06                    | -7.10                      | -1.04               | -13.00       | -65.20       |
| 354.95       | -80.78          | -77.33                    | -1.54                      | -1.91               | -13.00       | -67.78       |
| 481.05       | -77.81          | -74.13                    | -1.44                      | -2.24               | -13.00       | -64.81       |
| 592.60       | -76.49          | -72.72                    | -1.74                      | -2.03               | -13.00       | -63.49       |
| 784.66       | -74.84          | -70.38                    | -1.64                      | -2.82               | -13.00       | -61.84       |
| 1688.00      | -58.33          | -63.89                    | 9.61                       | -4.05               | -13.00       | -45.33       |

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## Radiated Spurious Emission Measurement Result: LTE-Band 7 (The Worst Case)

Report Number :ER/2019/C0150

Test Date :2020-01-17

Operation Mode :LTE B7

Temp./Humi. :21.6/65

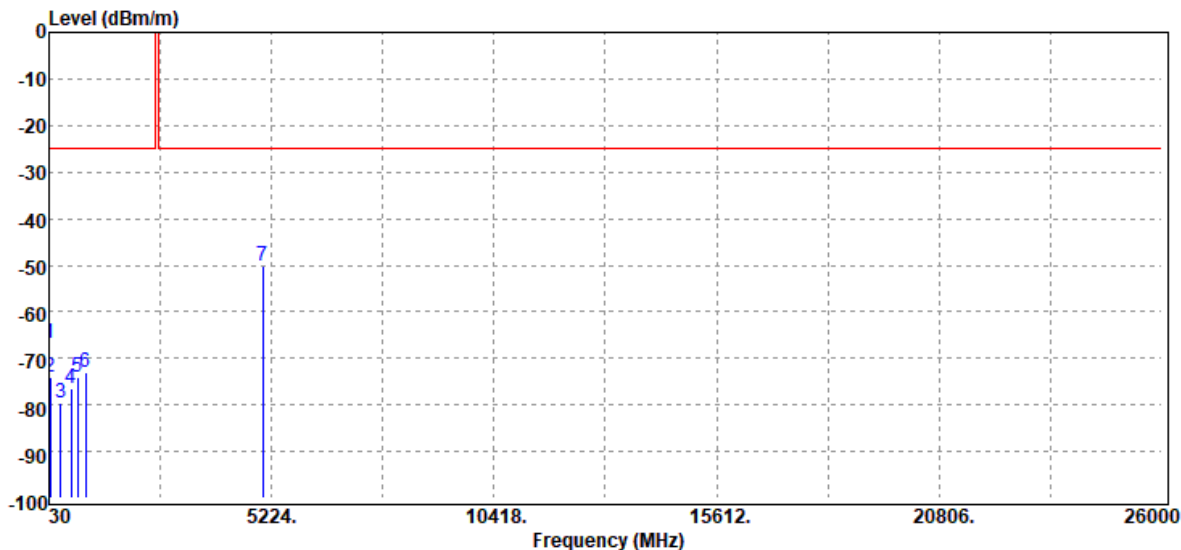
Test Mode :Tx CH Low

Antenna Pol. :VERTICAL

EUT Pol :H Plane

Engineer :Thomas

Test Channel :2510 MHz



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -66.62          | -45.56                    | -20.49                     | -0.57               | -25.00       | -41.62       |
| 66.86        | -74.11          | -60.17                    | -13.15                     | -0.79               | -25.00       | -49.11       |
| 309.36       | -79.55          | -76.24                    | -1.70                      | -1.61               | -25.00       | -54.55       |
| 547.01       | -76.38          | -72.76                    | -1.42                      | -2.20               | -25.00       | -51.38       |
| 689.60       | -73.95          | -70.19                    | -1.27                      | -2.49               | -25.00       | -48.95       |
| 885.54       | -72.91          | -68.60                    | -1.71                      | -2.60               | -25.00       | -47.91       |
| 5020.00      | -50.19          | -55.49                    | 12.32                      | -7.02               | -25.00       | -25.19       |

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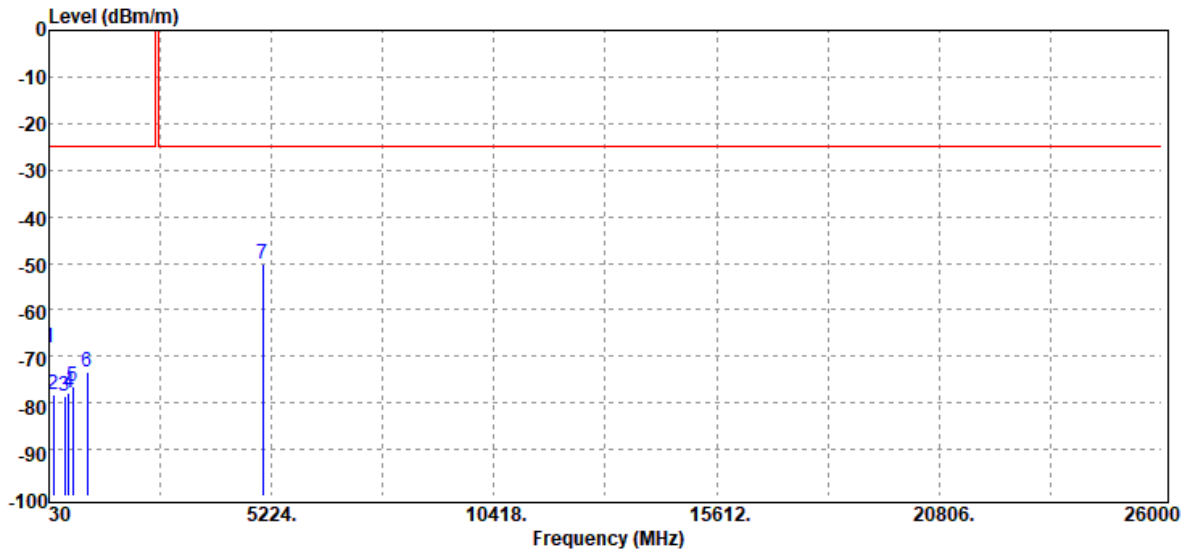
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Report Number :ER/2019/C0150  
Operation Mode :LTE B7  
Test Mode :Tx CH Low  
EUT Pol :H Plane  
Test Channel :2510 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 33.88        | -68.19          | -47.46                    | -20.15                     | -0.58               | -25.00       | -43.19       |
| 124.09       | -78.29          | -70.17                    | -7.07                      | -1.05               | -25.00       | -53.29       |
| 391.81       | -78.43          | -74.84                    | -1.62                      | -1.97               | -25.00       | -53.43       |
| 485.90       | -77.97          | -74.22                    | -1.53                      | -2.22               | -25.00       | -52.97       |
| 592.60       | -76.56          | -72.79                    | -1.74                      | -2.03               | -25.00       | -51.56       |
| 924.34       | -73.22          | -68.42                    | -1.93                      | -2.87               | -25.00       | -48.22       |
| 5020.00      | -50.22          | -55.52                    | 12.32                      | -7.02               | -25.00       | -25.22       |

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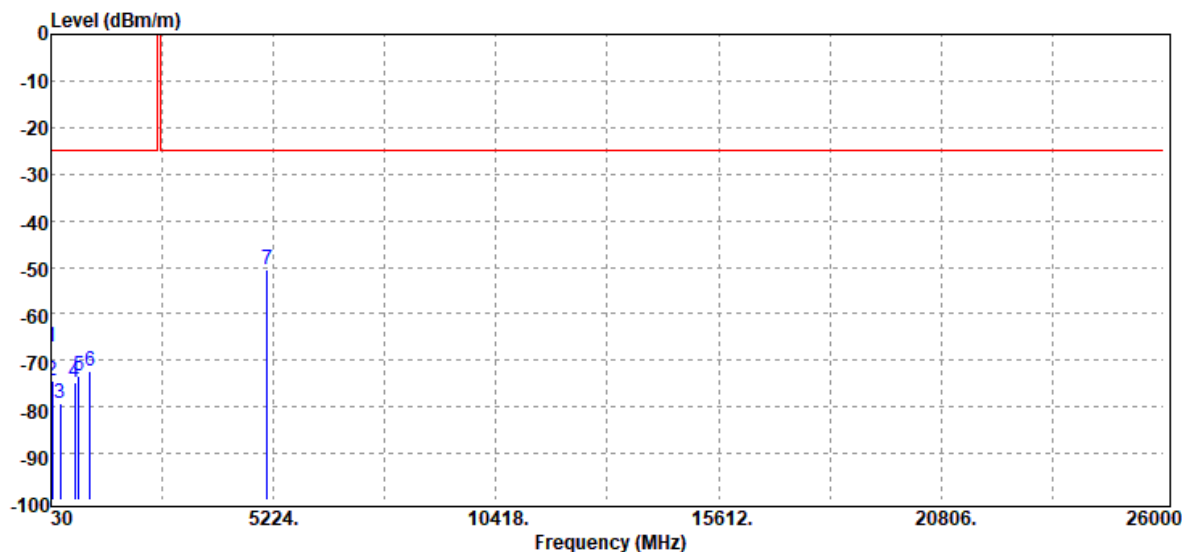
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Report Number :ER/2019/C0150  
Operation Mode :LTE B7  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Channel :2535 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :VERTICAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -66.97          | -45.91                    | -20.49                     | -0.57               | -25.00       | -41.97       |
| 65.89        | -74.44          | -60.26                    | -13.40                     | -0.78               | -25.00       | -49.44       |
| 253.10       | -79.36          | -76.18                    | -1.64                      | -1.54               | -25.00       | -54.36       |
| 583.87       | -74.78          | -71.23                    | -1.59                      | -1.96               | -25.00       | -49.78       |
| 675.05       | -73.20          | -69.21                    | -1.25                      | -2.74               | -25.00       | -48.20       |
| 943.74       | -72.31          | -67.35                    | -1.87                      | -3.09               | -25.00       | -47.31       |
| 5070.00      | -50.40          | -55.56                    | 12.16                      | -7.00               | -25.00       | -25.40       |

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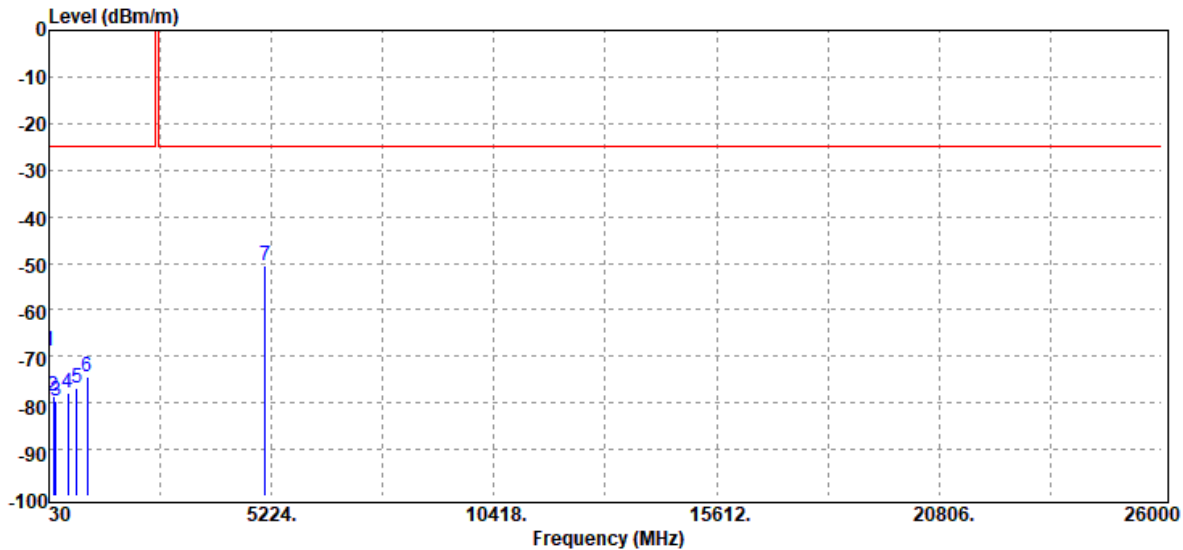
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Report Number :ER/2019/C0150  
Operation Mode :LTE B7  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Channel :2535 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 30.00        | -68.77          | -47.05                    | -21.20                     | -0.52               | -25.00       | -43.77       |
| 124.09       | -78.72          | -70.60                    | -7.07                      | -1.05               | -25.00       | -53.72       |
| 191.99       | -79.45          | -75.33                    | -2.77                      | -1.35               | -25.00       | -54.45       |
| 469.41       | -77.76          | -74.00                    | -1.50                      | -2.26               | -25.00       | -52.76       |
| 675.05       | -76.67          | -72.68                    | -1.25                      | -2.74               | -25.00       | -51.67       |
| 924.34       | -74.34          | -69.54                    | -1.93                      | -2.87               | -25.00       | -49.34       |
| 5070.00      | -50.45          | -55.61                    | 12.16                      | -7.00               | -25.00       | -25.45       |

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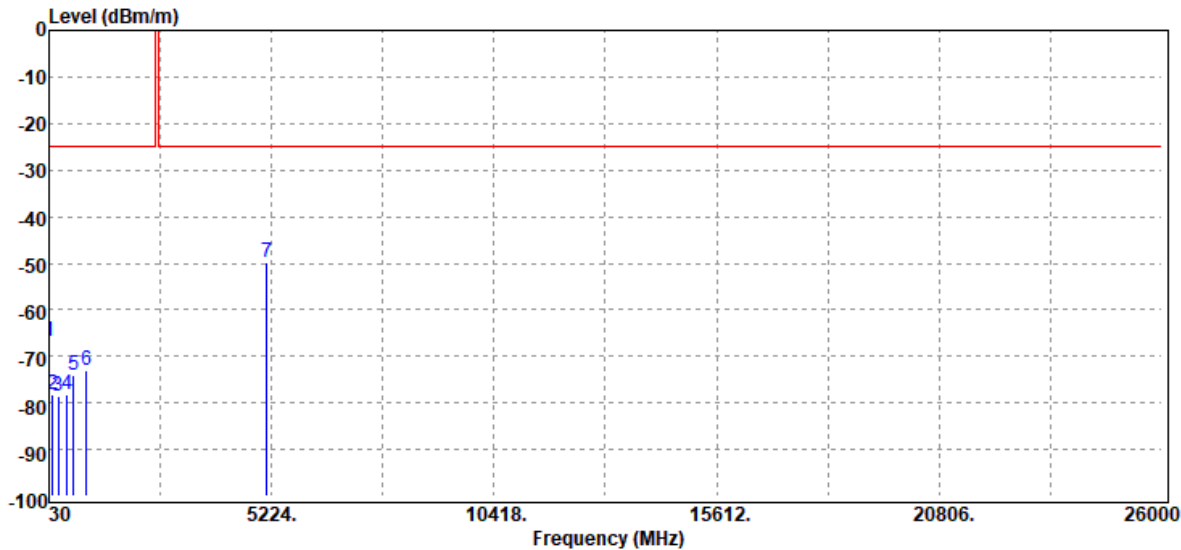
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Report Number :ER/2019/C0150  
Operation Mode :LTE B7  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Channel :2560 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :VERTICAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -66.75          | -45.69                    | -20.49                     | -0.57               | -25.00       | -41.75       |
| 115.36       | -78.08          | -69.92                    | -7.14                      | -1.02               | -25.00       | -53.08       |
| 238.55       | -78.39          | -75.24                    | -1.71                      | -1.44               | -25.00       | -53.39       |
| 444.19       | -78.18          | -74.59                    | -1.69                      | -1.90               | -25.00       | -53.18       |
| 599.39       | -74.12          | -69.99                    | -1.86                      | -2.27               | -25.00       | -49.12       |
| 898.15       | -72.88          | -68.35                    | -1.74                      | -2.79               | -25.00       | -47.88       |
| 5120.00      | -49.87          | -54.94                    | 12.10                      | -7.03               | -25.00       | -24.87       |

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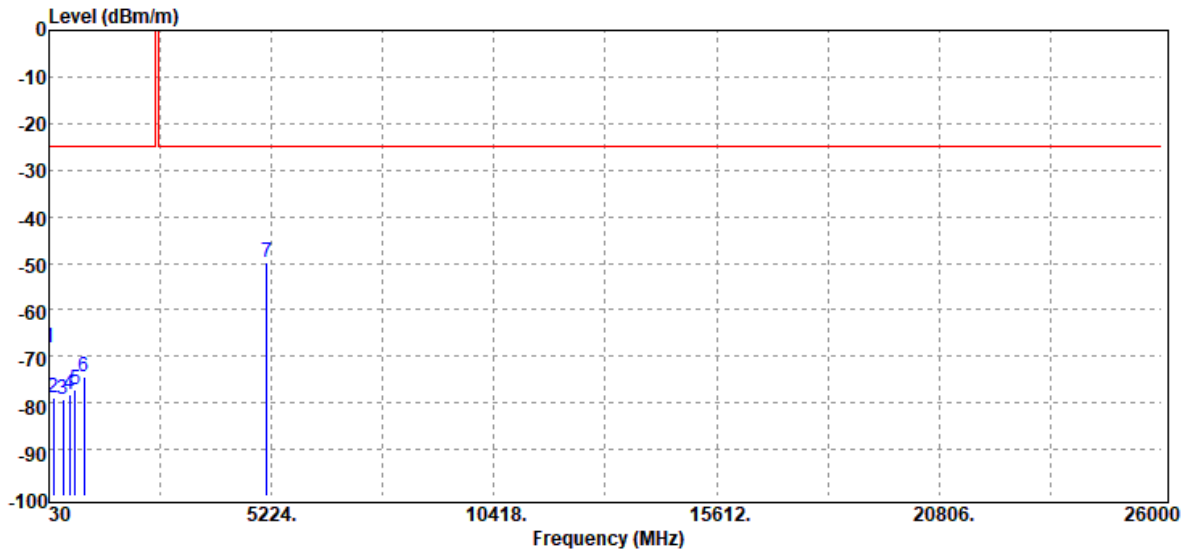
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Report Number :ER/2019/C0150  
Operation Mode :LTE B7  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Channel :2560 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 30.00        | -68.27          | -46.55                    | -21.20                     | -0.52               | -25.00       | -43.27       |
| 124.09       | -78.83          | -70.71                    | -7.07                      | -1.05               | -25.00       | -53.83       |
| 359.80       | -79.41          | -75.97                    | -1.51                      | -1.93               | -25.00       | -54.41       |
| 507.24       | -78.35          | -74.36                    | -1.48                      | -2.51               | -25.00       | -53.35       |
| 643.04       | -77.22          | -73.06                    | -1.54                      | -2.62               | -25.00       | -52.22       |
| 842.86       | -74.24          | -69.45                    | -1.72                      | -3.07               | -25.00       | -49.24       |
| 5120.00      | -50.00          | -55.07                    | 12.10                      | -7.03               | -25.00       | -25.00       |

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## Radiated Spurious Emission Measurement Result: LTE-Band 12 (The Worst Case)

Report Number :ER/2019/C0150

Test Date :2020-01-17

Operation Mode :LTE B12

Temp./Humi. :21.6/65

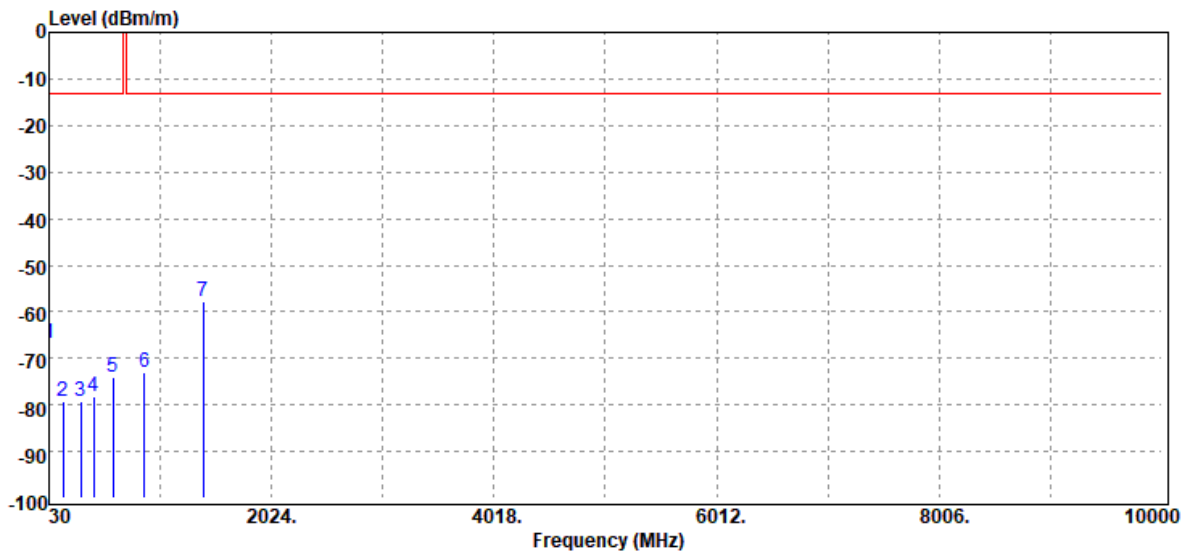
Test Mode :Tx CH Low

Antenna Pol. :VERTICAL

EUT Pol :H Plane

Engineer :Thomas

Test Channel :704 MHz



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -66.74          | -45.68                    | -20.49                     | -0.57               | -13.00       | -53.74       |
| 156.10       | -79.07          | -70.50                    | -7.26                      | -1.31               | -13.00       | -66.07       |
| 314.21       | -79.21          | -75.95                    | -1.59                      | -1.67               | -13.00       | -66.21       |
| 430.61       | -78.25          | -74.74                    | -1.67                      | -1.84               | -13.00       | -65.25       |
| 604.24       | -74.15          | -69.77                    | -1.98                      | -2.40               | -13.00       | -61.15       |
| 883.60       | -72.84          | -68.57                    | -1.71                      | -2.56               | -13.00       | -59.84       |
| 1408.00      | -57.77          | -61.99                    | 7.92                       | -3.70               | -13.00       | -44.77       |

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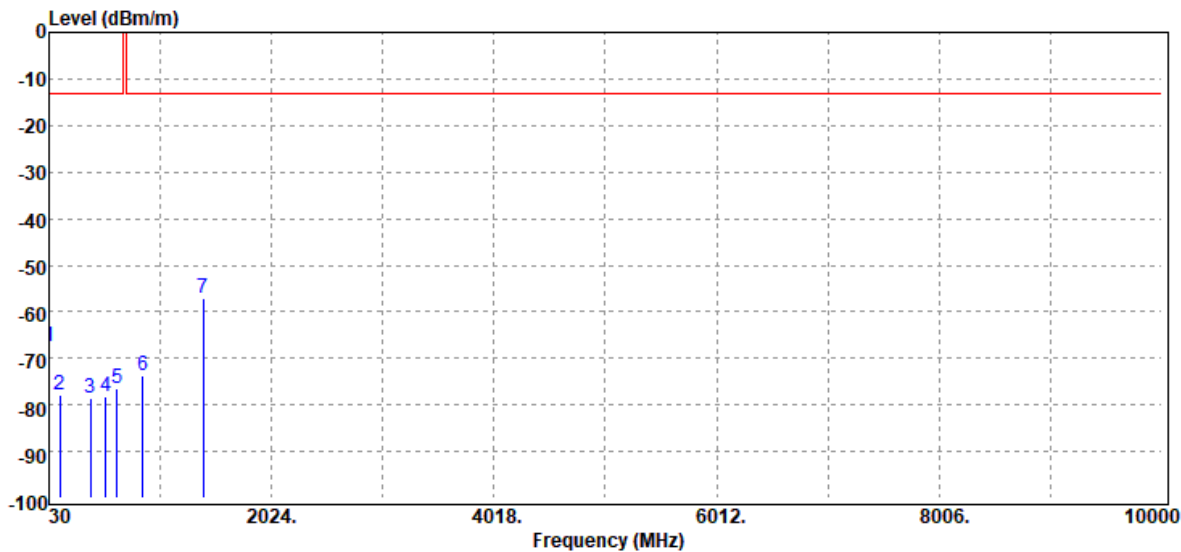
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Report Number :ER/2019/C0150  
Operation Mode :LTE B12  
Test Mode :Tx CH Low  
EUT Pol :H Plane  
Test Channel :704 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -67.57          | -46.51                    | -20.49                     | -0.57               | -13.00       | -54.57       |
| 127.00       | -77.81          | -69.57                    | -7.16                      | -1.08               | -13.00       | -64.81       |
| 403.45       | -78.47          | -74.95                    | -1.59                      | -1.93               | -13.00       | -65.47       |
| 542.16       | -78.05          | -74.48                    | -1.40                      | -2.17               | -13.00       | -65.05       |
| 643.04       | -76.64          | -72.48                    | -1.54                      | -2.62               | -13.00       | -63.64       |
| 871.96       | -73.80          | -69.62                    | -1.67                      | -2.51               | -13.00       | -60.80       |
| 1408.00      | -56.97          | -61.19                    | 7.92                       | -3.70               | -13.00       | -43.97       |

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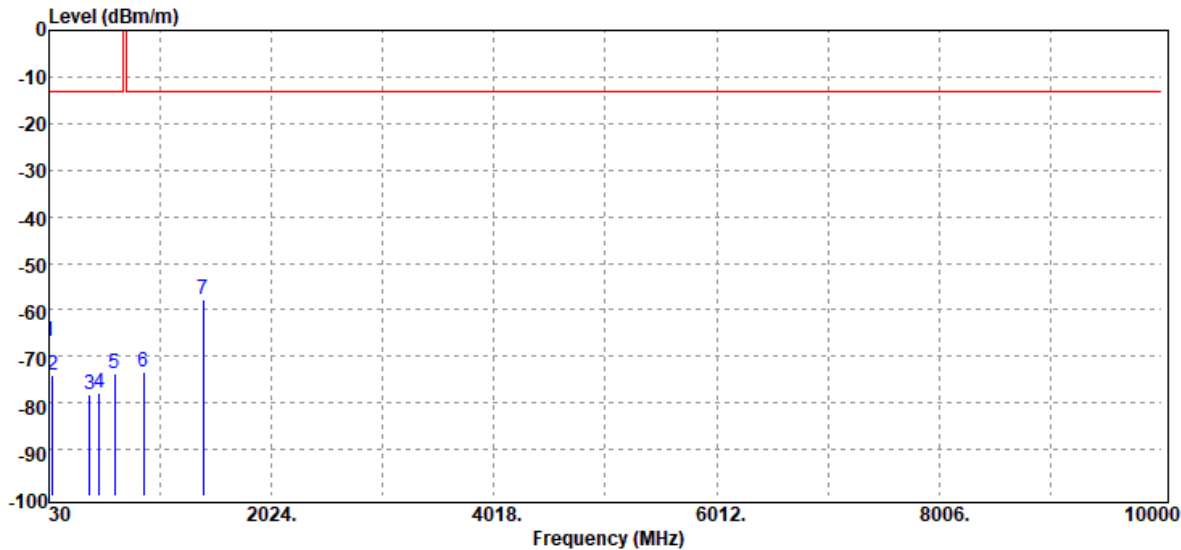
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Report Number :ER/2019/C0150  
Operation Mode :LTE B12  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Channel :707.5 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :VERTICAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -66.80          | -45.74                    | -20.49                     | -0.57               | -13.00       | -53.80       |
| 65.89        | -74.04          | -59.86                    | -13.40                     | -0.78               | -13.00       | -61.04       |
| 391.81       | -78.13          | -74.54                    | -1.62                      | -1.97               | -13.00       | -65.13       |
| 479.11       | -77.70          | -74.01                    | -1.44                      | -2.25               | -13.00       | -64.70       |
| 618.79       | -73.73          | -69.47                    | -1.73                      | -2.53               | -13.00       | -60.73       |
| 875.84       | -73.24          | -69.03                    | -1.71                      | -2.50               | -13.00       | -60.24       |
| 1415.00      | -57.68          | -61.91                    | 7.93                       | -3.70               | -13.00       | -44.68       |

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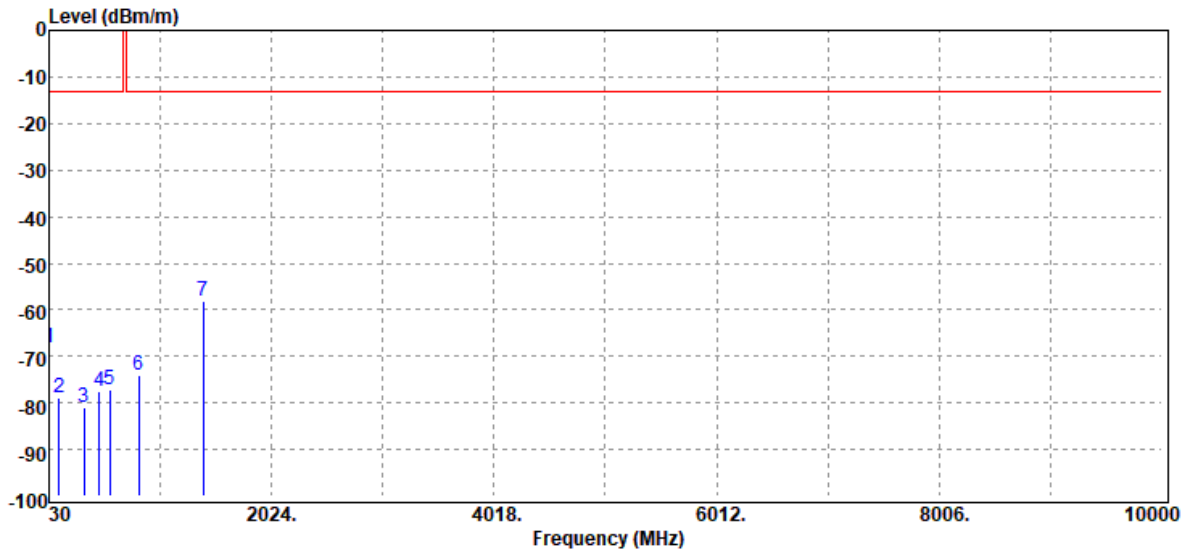
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Report Number :ER/2019/C0150  
Operation Mode :LTE B12  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Channel :707.5 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 30.97        | -68.18          | -46.62                    | -21.02                     | -0.54               | -13.00       | -55.18       |
| 122.15       | -78.83          | -70.69                    | -7.10                      | -1.04               | -13.00       | -65.83       |
| 343.31       | -81.10          | -77.62                    | -1.59                      | -1.89               | -13.00       | -68.10       |
| 479.11       | -77.44          | -73.75                    | -1.44                      | -2.25               | -13.00       | -64.44       |
| 576.11       | -77.26          | -73.65                    | -1.55                      | -2.06               | -13.00       | -64.26       |
| 835.10       | -73.97          | -69.17                    | -1.81                      | -2.99               | -13.00       | -60.97       |
| 1415.00      | -58.02          | -62.25                    | 7.93                       | -3.70               | -13.00       | -45.02       |

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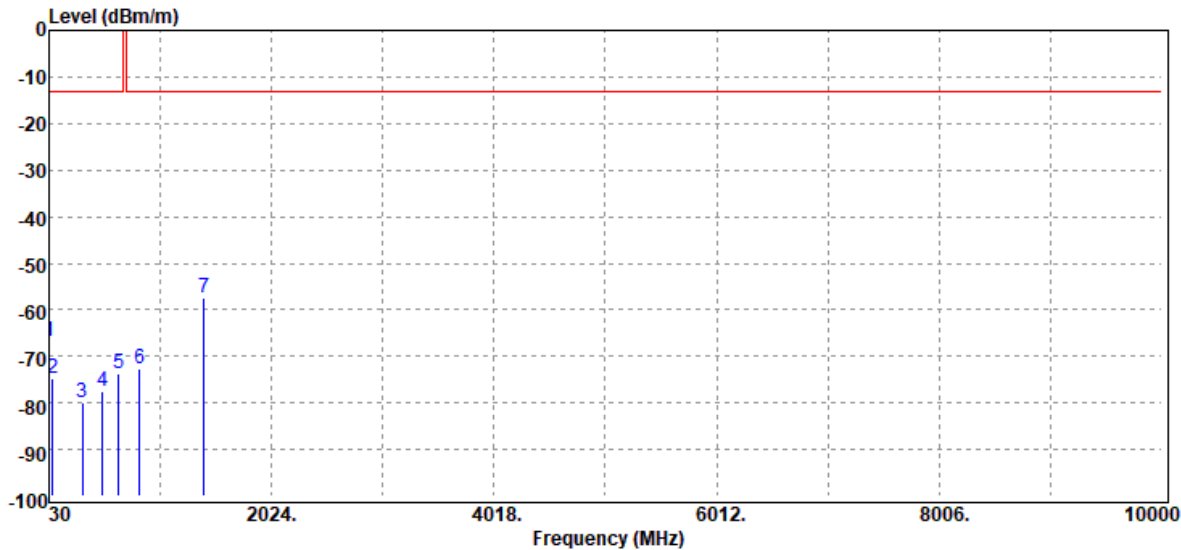
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Report Number :ER/2019/C0150  
Operation Mode :LTE B12  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Channel :711 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :VERTICAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 33.88        | -66.84          | -46.11                    | -20.15                     | -0.58               | -13.00       | -53.84       |
| 65.89        | -74.87          | -60.69                    | -13.40                     | -0.78               | -13.00       | -61.87       |
| 328.76       | -79.91          | -76.27                    | -1.73                      | -1.91               | -13.00       | -66.91       |
| 507.24       | -77.41          | -73.42                    | -1.48                      | -2.51               | -13.00       | -64.41       |
| 655.65       | -73.82          | -69.33                    | -1.42                      | -3.07               | -13.00       | -60.82       |
| 839.95       | -72.71          | -67.93                    | -1.75                      | -3.03               | -13.00       | -59.71       |
| 1422.00      | -57.35          | -61.58                    | 7.94                       | -3.71               | -13.00       | -44.35       |

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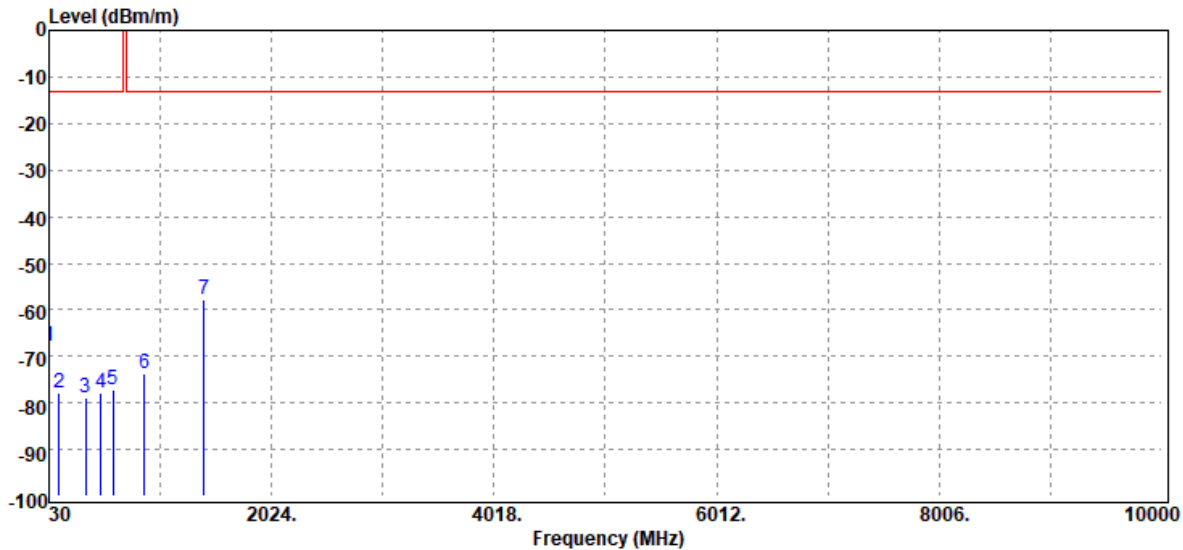
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Report Number :ER/2019/C0150  
Operation Mode :LTE B12  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Channel :711 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 30.00        | -67.87          | -46.15                    | -21.20                     | -0.52               | -13.00       | -54.87       |
| 119.24       | -77.80          | -69.67                    | -7.11                      | -1.02               | -13.00       | -64.80       |
| 357.86       | -78.88          | -75.44                    | -1.52                      | -1.92               | -13.00       | -65.88       |
| 493.66       | -77.90          | -74.09                    | -1.55                      | -2.26               | -13.00       | -64.90       |
| 605.21       | -77.19          | -72.77                    | -2.00                      | -2.42               | -13.00       | -64.19       |
| 888.45       | -73.81          | -69.43                    | -1.73                      | -2.65               | -13.00       | -60.81       |
| 1422.00      | -57.82          | -62.05                    | 7.94                       | -3.71               | -13.00       | -44.82       |

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## Radiated Spurious Emission Measurement Result: LTE-Band 13 (The Worst Case)

Report Number :ER/2019/C0150

Test Date :2020-01-17

Operation Mode :LTE B13

Temp./Humi. :21.6/65

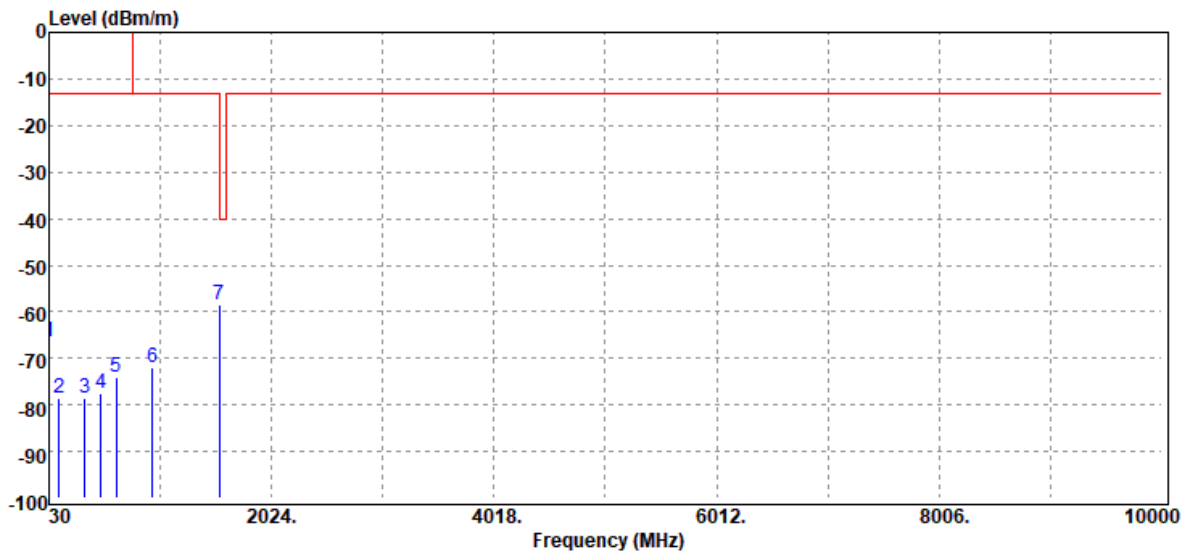
Test Mode :Tx CH Low

Antenna Pol. :VERTICAL

EUT Pol :H Plane

Engineer :Thomas

Test Channel :779.5 MHz



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -66.56          | -45.50                    | -20.49                     | -0.57               | -13.00       | -53.56       |
| 117.30       | -78.44          | -70.33                    | -7.09                      | -1.02               | -13.00       | -65.44       |
| 348.16       | -78.71          | -75.32                    | -1.50                      | -1.89               | -13.00       | -65.71       |
| 493.66       | -77.65          | -73.84                    | -1.55                      | -2.26               | -13.00       | -64.65       |
| 634.31       | -74.01          | -69.95                    | -1.59                      | -2.47               | -13.00       | -61.01       |
| 954.41       | -71.95          | -66.76                    | -1.93                      | -3.26               | -13.00       | -58.95       |
| 1559.00      | -58.51          | -63.74                    | 9.12                       | -3.89               | -40.00       | -18.51       |

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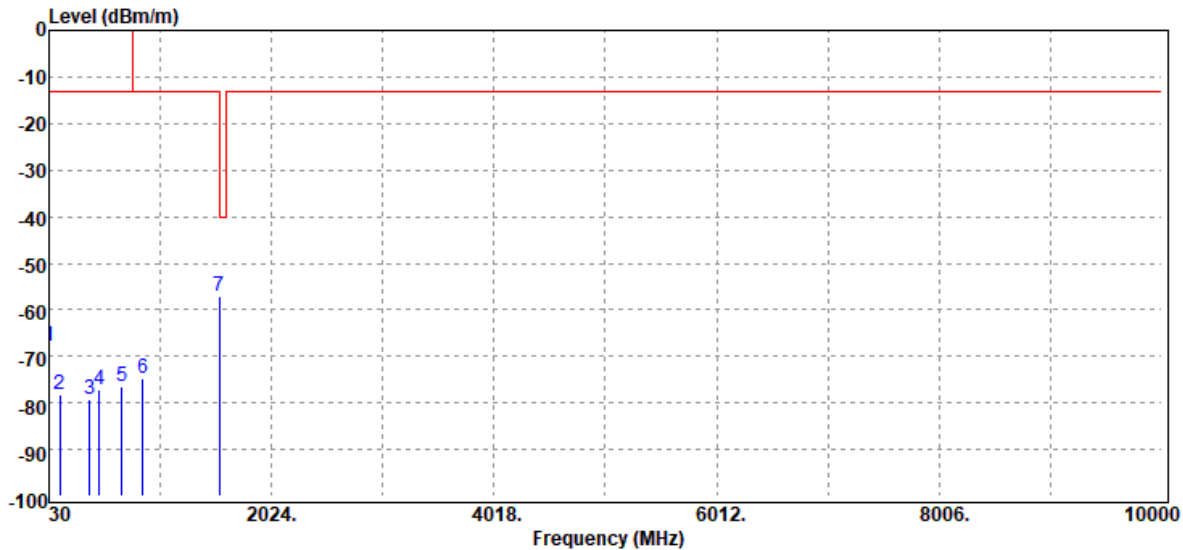
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Report Number :ER/2019/C0150  
Operation Mode :LTE B13  
Test Mode :Tx CH Low  
EUT Pol :H Plane  
Test Channel :779.5 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -67.93          | -46.87                    | -20.49                     | -0.57               | -13.00       | -54.93       |
| 125.06       | -78.31          | -70.15                    | -7.10                      | -1.06               | -13.00       | -65.31       |
| 393.75       | -79.38          | -75.81                    | -1.61                      | -1.96               | -13.00       | -66.38       |
| 479.11       | -77.05          | -73.36                    | -1.44                      | -2.25               | -13.00       | -64.05       |
| 679.90       | -76.53          | -72.72                    | -1.29                      | -2.52               | -13.00       | -63.53       |
| 870.99       | -74.58          | -70.41                    | -1.66                      | -2.51               | -13.00       | -61.58       |
| 1559.00      | -56.96          | -62.19                    | 9.12                       | -3.89               | -40.00       | -16.96       |

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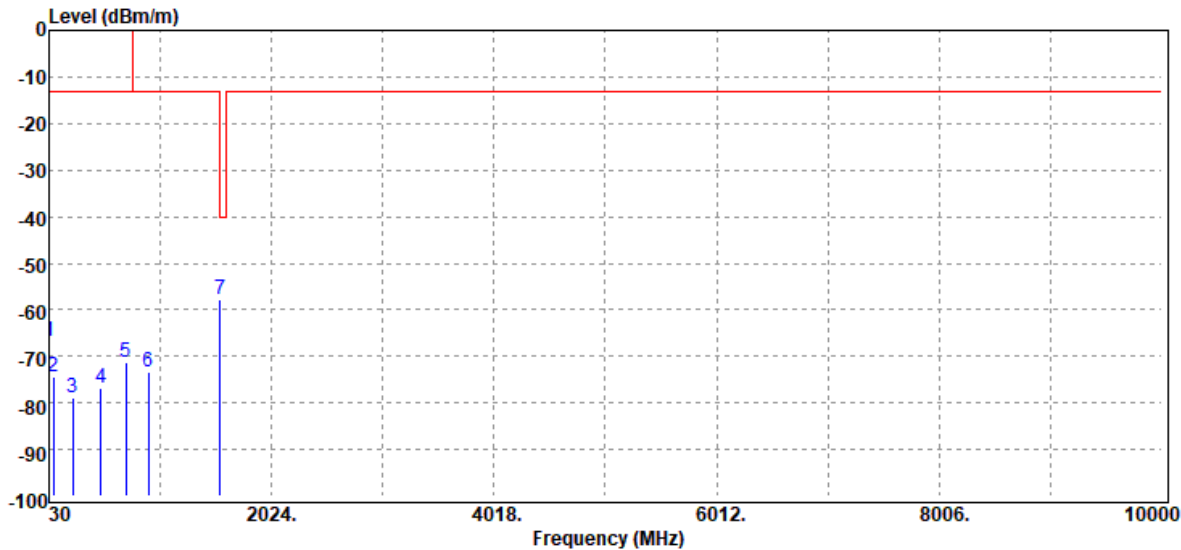
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Report Number :ER/2019/C0150  
Operation Mode :LTE B13  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Channel :782 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :VERTICAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 33.88        | -66.94          | -46.21                    | -20.15                     | -0.58               | -13.00       | -53.94       |
| 66.86        | -74.33          | -60.39                    | -13.15                     | -0.79               | -13.00       | -61.33       |
| 241.46       | -78.85          | -75.69                    | -1.72                      | -1.44               | -13.00       | -65.85       |
| 492.69       | -76.83          | -73.04                    | -1.55                      | -2.24               | -13.00       | -63.83       |
| 716.76       | -71.29          | -67.43                    | -1.36                      | -2.50               | -13.00       | -58.29       |
| 917.55       | -73.22          | -68.49                    | -1.89                      | -2.84               | -13.00       | -60.22       |
| 1564.00      | -57.83          | -63.06                    | 9.13                       | -3.90               | -40.00       | -17.83       |

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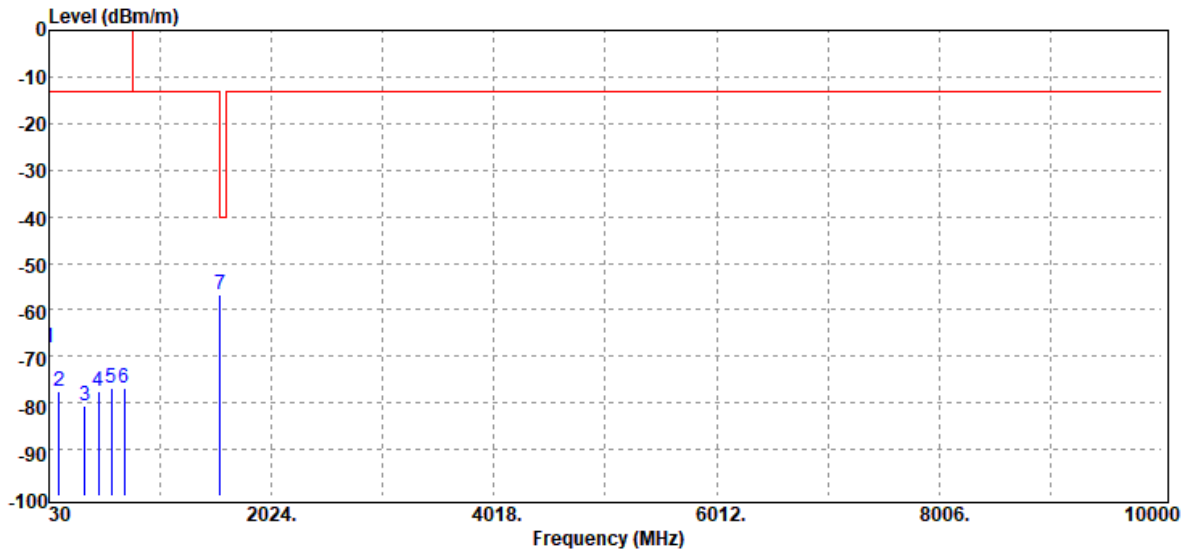
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Report Number :ER/2019/C0150  
Operation Mode :LTE B13  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Channel :782 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -68.24          | -47.18                    | -20.49                     | -0.57               | -13.00       | -55.24       |
| 123.12       | -77.55          | -69.47                    | -7.04                      | -1.04               | -13.00       | -64.55       |
| 348.16       | -80.52          | -77.13                    | -1.50                      | -1.89               | -13.00       | -67.52       |
| 476.20       | -77.36          | -73.62                    | -1.49                      | -2.25               | -13.00       | -64.36       |
| 590.66       | -76.86          | -73.18                    | -1.72                      | -1.96               | -13.00       | -63.86       |
| 706.09       | -76.69          | -72.77                    | -1.29                      | -2.63               | -13.00       | -63.69       |
| 1564.00      | -56.79          | -62.02                    | 9.13                       | -3.90               | -40.00       | -16.79       |

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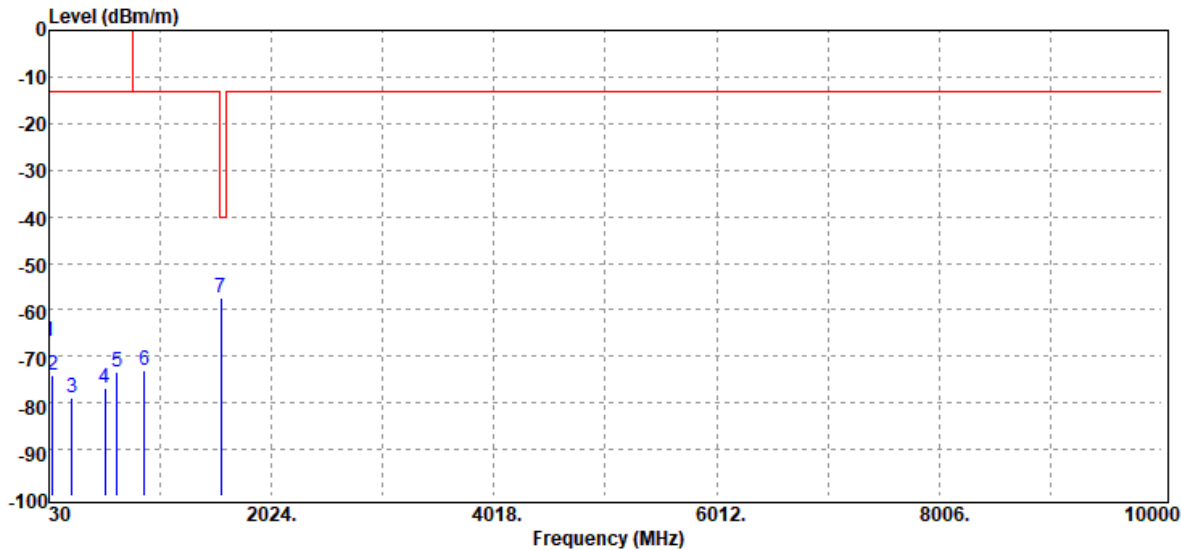
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Report Number :ER/2019/C0150  
Operation Mode :LTE B13  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Channel :784.5 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :VERTICAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -66.67          | -45.61                    | -20.49                     | -0.57               | -13.00       | -53.67       |
| 65.89        | -74.13          | -59.95                    | -13.40                     | -0.78               | -13.00       | -61.13       |
| 238.55       | -78.75          | -75.60                    | -1.71                      | -1.44               | -13.00       | -65.75       |
| 530.52       | -76.85          | -73.09                    | -1.44                      | -2.32               | -13.00       | -63.85       |
| 638.19       | -73.49          | -69.46                    | -1.54                      | -2.49               | -13.00       | -60.49       |
| 886.51       | -73.04          | -68.71                    | -1.72                      | -2.61               | -13.00       | -60.04       |
| 1569.00      | -57.57          | -62.81                    | 9.14                       | -3.90               | -40.00       | -17.57       |

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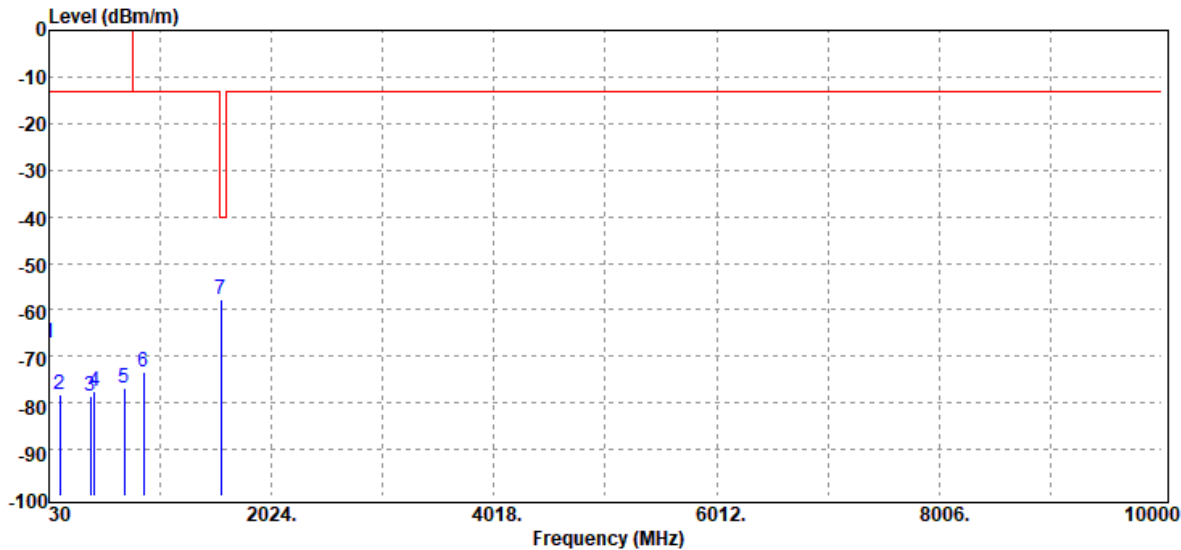
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Report Number :ER/2019/C0150  
Operation Mode :LTE B13  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Channel :784.5 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -67.09          | -46.03                    | -20.49                     | -0.57               | -13.00       | -54.09       |
| 125.06       | -78.03          | -69.87                    | -7.10                      | -1.06               | -13.00       | -65.03       |
| 398.60       | -78.62          | -75.09                    | -1.60                      | -1.93               | -13.00       | -65.62       |
| 440.31       | -77.38          | -73.79                    | -1.76                      | -1.83               | -13.00       | -64.38       |
| 704.15       | -76.73          | -72.82                    | -1.29                      | -2.62               | -13.00       | -63.73       |
| 880.69       | -73.32          | -69.07                    | -1.74                      | -2.51               | -13.00       | -60.32       |
| 1569.00      | -57.66          | -62.90                    | 9.14                       | -3.90               | -40.00       | -17.66       |

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## Radiated Spurious Emission Measurement Result: LTE-Band 13 (763~775MHz)

Report Number :ER/2019/C0150

Test Date :2020-01-17

Operation Mode :LTE B13

Temp./Humi. :21.6/65

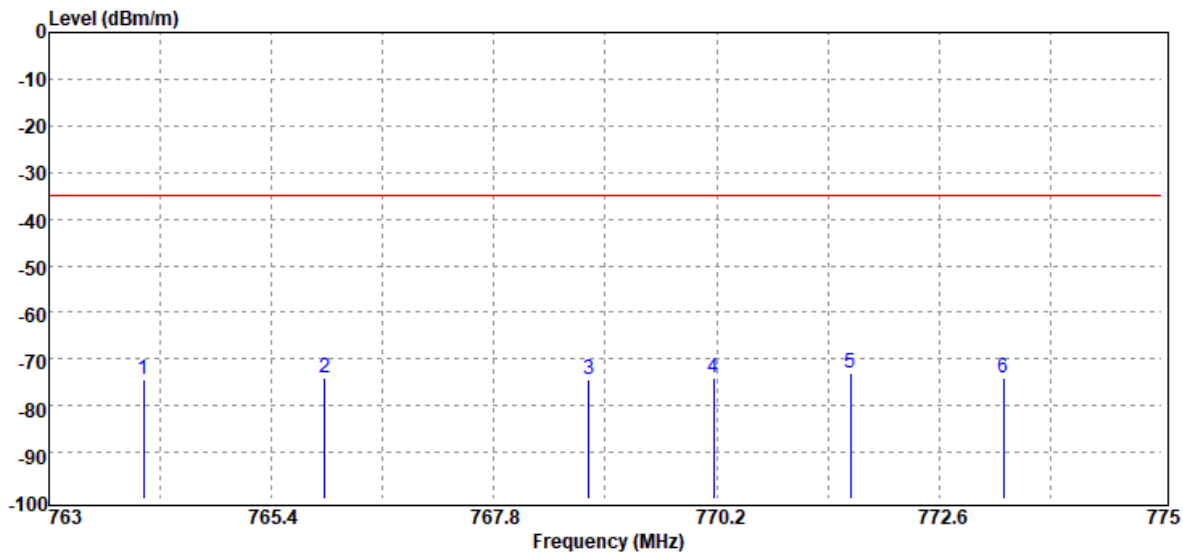
Test Mode :Tx CH Low

Antenna Pol. :VERTICAL

EUT Pol :H Plane

Engineer :Thomas

Test Channel :779.5 MHz



| Freq.  | EIRP/ERP | SG                  | Antenna         | Cable      | Limit  | Margin |
|--------|----------|---------------------|-----------------|------------|--------|--------|
| MHz    | dBm      | Output Level<br>dBm | Gain<br>dBi/dBd | Loss<br>dB | dBm    | dB     |
| 764.02 | -74.54   | -70.15              | -1.78           | -2.61      | -35.00 | -39.54 |
| 765.98 | -74.11   | -69.75              | -1.76           | -2.60      | -35.00 | -39.11 |
| 768.82 | -74.41   | -70.10              | -1.72           | -2.59      | -35.00 | -39.41 |
| 770.16 | -74.22   | -69.93              | -1.71           | -2.58      | -35.00 | -39.22 |
| 771.64 | -72.98   | -68.66              | -1.72           | -2.60      | -35.00 | -37.98 |
| 773.30 | -74.18   | -69.83              | -1.74           | -2.61      | -35.00 | -39.18 |

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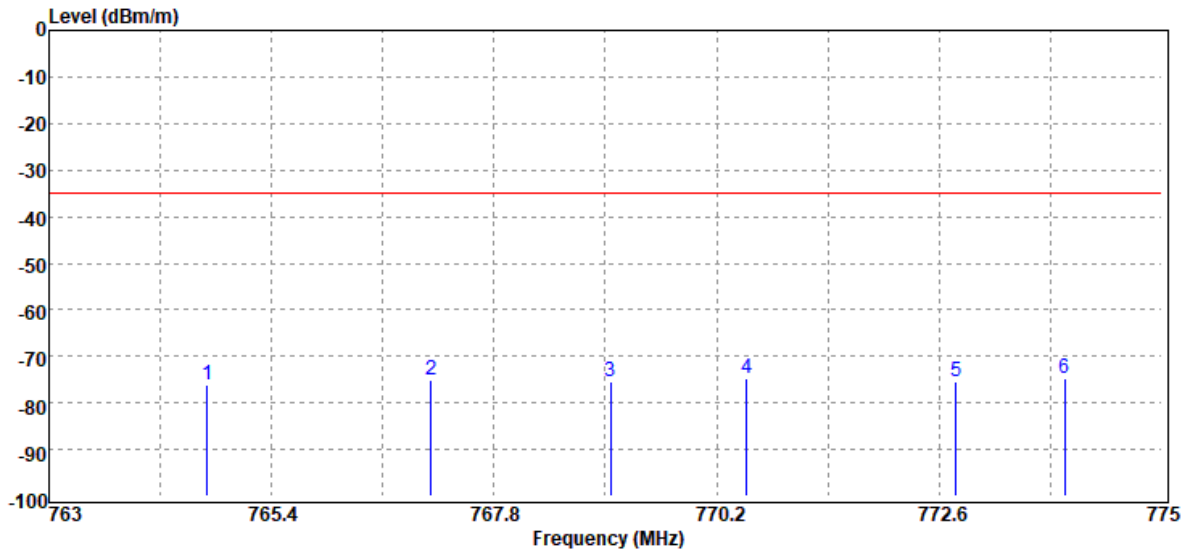
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Report Number :ER/2019/C0150  
Operation Mode :LTE B13  
Test Mode :Tx CH Low  
EUT Pol :H Plane  
Test Channel :779.5 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 764.70       | -76.08          | -71.70                    | -1.77                      | -2.61               | -35.00       | -41.08       |
| 767.12       | -75.22          | -70.88                    | -1.74                      | -2.60               | -35.00       | -40.22       |
| 769.06       | -75.56          | -71.26                    | -1.72                      | -2.58               | -35.00       | -40.56       |
| 770.52       | -74.58          | -70.29                    | -1.71                      | -2.58               | -35.00       | -39.58       |
| 772.78       | -75.50          | -71.16                    | -1.73                      | -2.61               | -35.00       | -40.50       |
| 773.96       | -74.81          | -70.45                    | -1.74                      | -2.62               | -35.00       | -39.81       |

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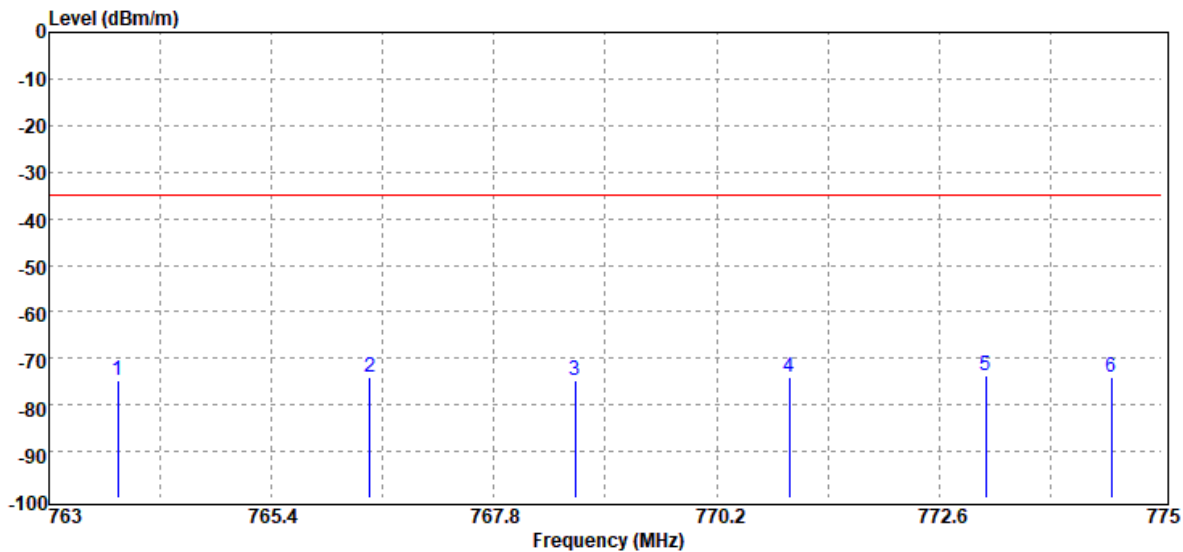
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Report Number :ER/2019/C0150  
Operation Mode :LTE B13  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Channel :782 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :VERTICAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 763.74       | -74.85          | -70.46                    | -1.78                      | -2.61               | -35.00       | -39.85       |
| 766.46       | -73.98          | -69.63                    | -1.75                      | -2.60               | -35.00       | -38.98       |
| 768.68       | -74.87          | -70.55                    | -1.73                      | -2.59               | -35.00       | -39.87       |
| 770.98       | -73.88          | -69.57                    | -1.72                      | -2.59               | -35.00       | -38.88       |
| 773.10       | -73.75          | -69.41                    | -1.73                      | -2.61               | -35.00       | -38.75       |
| 774.46       | -73.98          | -69.61                    | -1.75                      | -2.62               | -35.00       | -38.98       |

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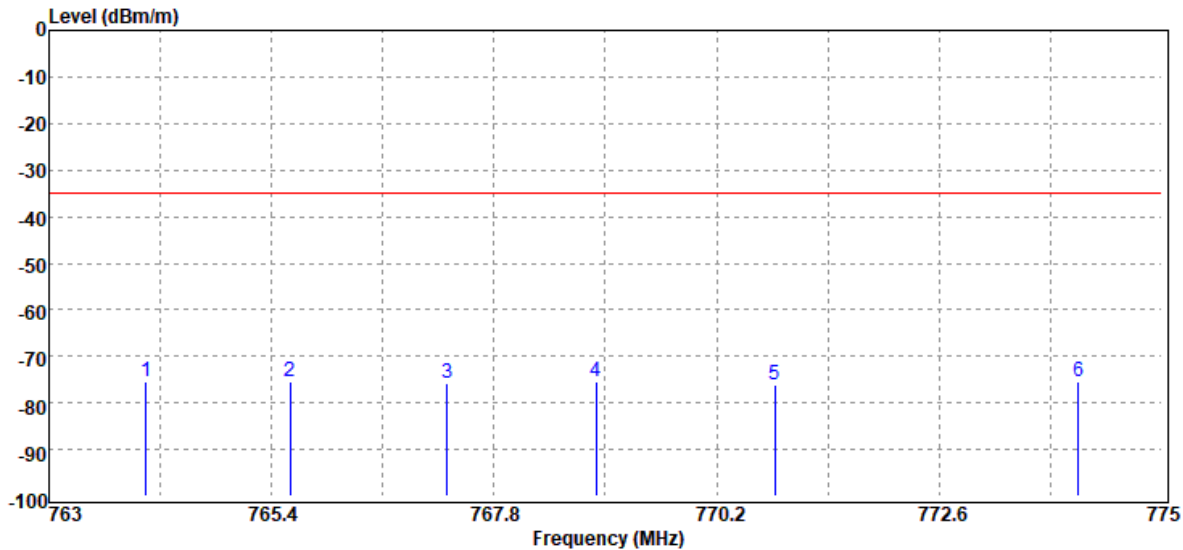
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Report Number :ER/2019/C0150  
Operation Mode :LTE B13  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Channel :782 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 764.04       | -75.46          | -71.07                    | -1.78                      | -2.61               | -35.00       | -40.46       |
| 765.60       | -75.45          | -71.09                    | -1.76                      | -2.60               | -35.00       | -40.45       |
| 767.30       | -75.94          | -71.61                    | -1.74                      | -2.59               | -35.00       | -40.94       |
| 768.90       | -75.36          | -71.05                    | -1.72                      | -2.59               | -35.00       | -40.36       |
| 770.82       | -76.07          | -71.76                    | -1.72                      | -2.59               | -35.00       | -41.07       |
| 774.10       | -75.52          | -71.16                    | -1.74                      | -2.62               | -35.00       | -40.52       |

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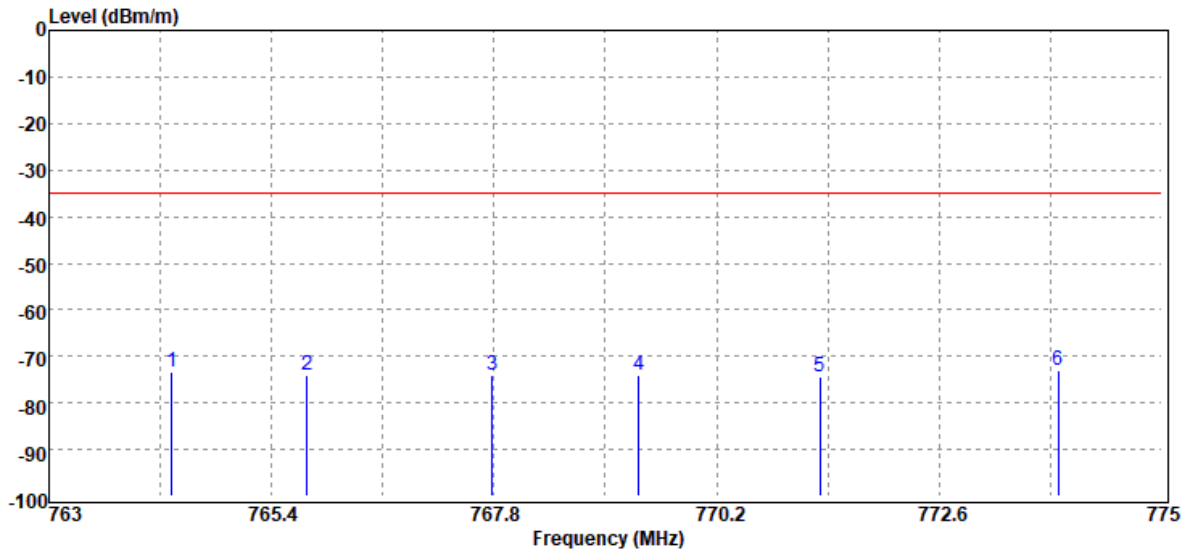
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Report Number :ER/2019/C0150  
Operation Mode :LTE B13  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Channel :784.5 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :VERTICAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 764.32       | -73.22          | -68.83                    | -1.78                      | -2.61               | -35.00       | -38.22       |
| 765.78       | -74.02          | -69.66                    | -1.76                      | -2.60               | -35.00       | -39.02       |
| 767.78       | -73.89          | -69.56                    | -1.74                      | -2.59               | -35.00       | -38.89       |
| 769.36       | -74.04          | -69.74                    | -1.72                      | -2.58               | -35.00       | -39.04       |
| 771.32       | -74.27          | -69.96                    | -1.72                      | -2.59               | -35.00       | -39.27       |
| 773.88       | -72.90          | -68.54                    | -1.74                      | -2.62               | -35.00       | -37.90       |

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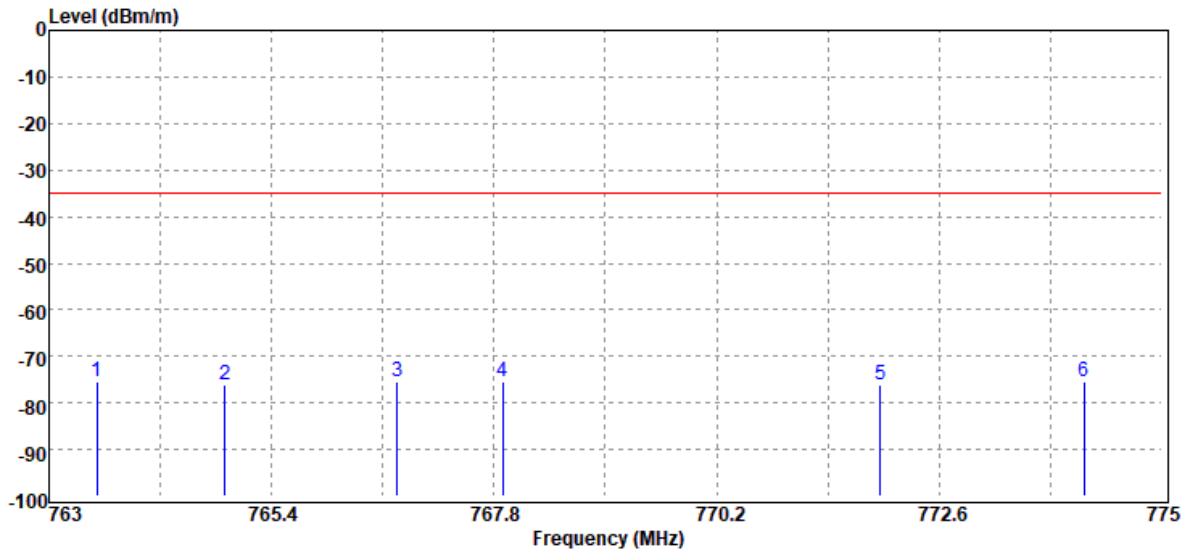
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Report Number :ER/2019/C0150  
Operation Mode :LTE B13  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Channel :784.5 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 763.52       | -75.31          | -70.92                    | -1.78                      | -2.61               | -35.00       | -40.31       |
| 764.90       | -76.08          | -71.70                    | -1.77                      | -2.61               | -35.00       | -41.08       |
| 766.76       | -75.36          | -71.01                    | -1.75                      | -2.60               | -35.00       | -40.36       |
| 767.90       | -75.52          | -71.19                    | -1.74                      | -2.59               | -35.00       | -40.52       |
| 771.96       | -76.01          | -71.68                    | -1.73                      | -2.60               | -35.00       | -41.01       |
| 774.16       | -75.56          | -71.20                    | -1.74                      | -2.62               | -35.00       | -40.56       |

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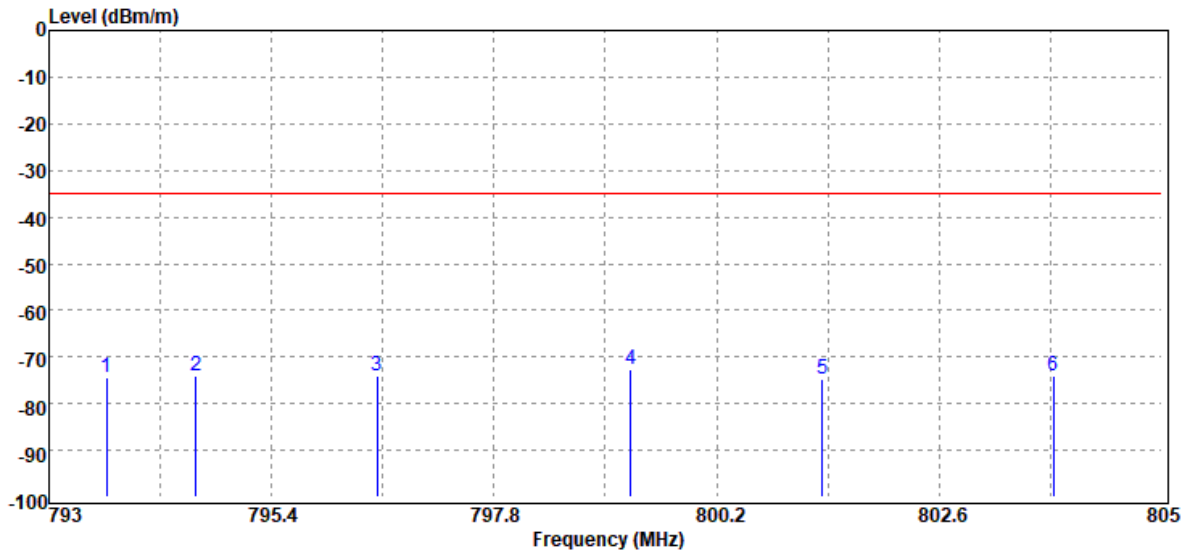
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## Radiated Spurious Emission Measurement Result: LTE-Band 13 (793~805MHz)

Report Number :ER/2019/C0150  
Operation Mode :LTE B13  
Test Mode :Tx CH Low  
EUT Pol :H Plane  
Test Channel :779.5 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :VERTICAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 793.62       | -74.25          | -69.55                    | -1.65                      | -3.05               | -35.00       | -39.25       |
| 794.58       | -74.20          | -69.51                    | -1.63                      | -3.06               | -35.00       | -39.20       |
| 796.54       | -73.92          | -69.21                    | -1.61                      | -3.10               | -35.00       | -38.92       |
| 799.28       | -72.80          | -68.07                    | -1.59                      | -3.14               | -35.00       | -37.80       |
| 801.34       | -74.73          | -69.98                    | -1.59                      | -3.16               | -35.00       | -39.73       |
| 803.84       | -74.21          | -69.44                    | -1.61                      | -3.16               | -35.00       | -39.21       |

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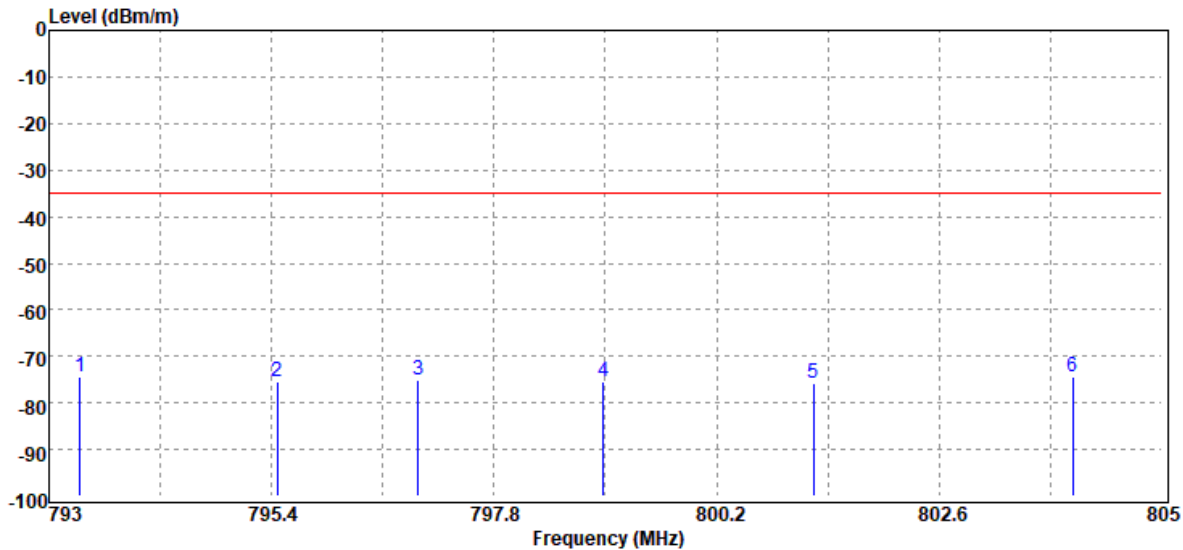
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Report Number :ER/2019/C0150  
Operation Mode :LTE B13  
Test Mode :Tx CH Low  
EUT Pol :H Plane  
Test Channel :779.5 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 793.34       | -74.34          | -69.65                    | -1.65                      | -3.04               | -35.00       | -39.34       |
| 795.46       | -75.42          | -70.71                    | -1.63                      | -3.08               | -35.00       | -40.42       |
| 796.98       | -75.16          | -70.45                    | -1.61                      | -3.10               | -35.00       | -40.16       |
| 798.98       | -75.49          | -70.76                    | -1.59                      | -3.14               | -35.00       | -40.49       |
| 801.24       | -75.73          | -70.98                    | -1.59                      | -3.16               | -35.00       | -40.73       |
| 804.04       | -74.41          | -69.64                    | -1.61                      | -3.16               | -35.00       | -39.41       |

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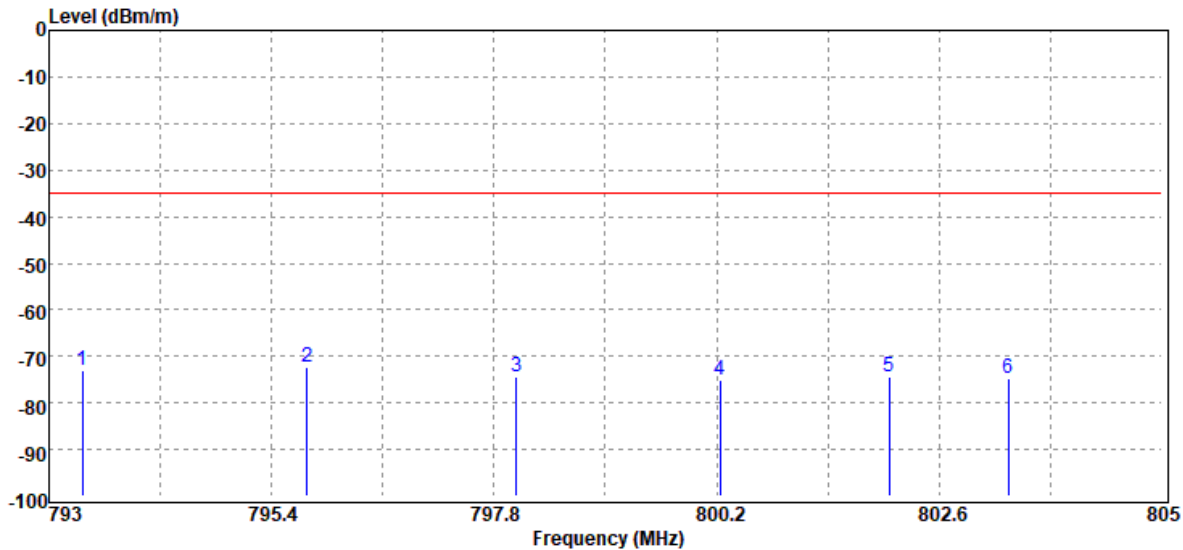
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Report Number :ER/2019/C0150  
Operation Mode :LTE B13  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Channel :782 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :VERTICAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 793.36       | -72.99          | -68.30                    | -1.65                      | -3.04               | -35.00       | -37.99       |
| 795.78       | -72.46          | -67.76                    | -1.62                      | -3.08               | -35.00       | -37.46       |
| 798.04       | -74.49          | -69.77                    | -1.60                      | -3.12               | -35.00       | -39.49       |
| 800.24       | -74.94          | -70.20                    | -1.58                      | -3.16               | -35.00       | -39.94       |
| 802.06       | -74.36          | -69.60                    | -1.60                      | -3.16               | -35.00       | -39.36       |
| 803.34       | -74.67          | -69.90                    | -1.61                      | -3.16               | -35.00       | -39.67       |

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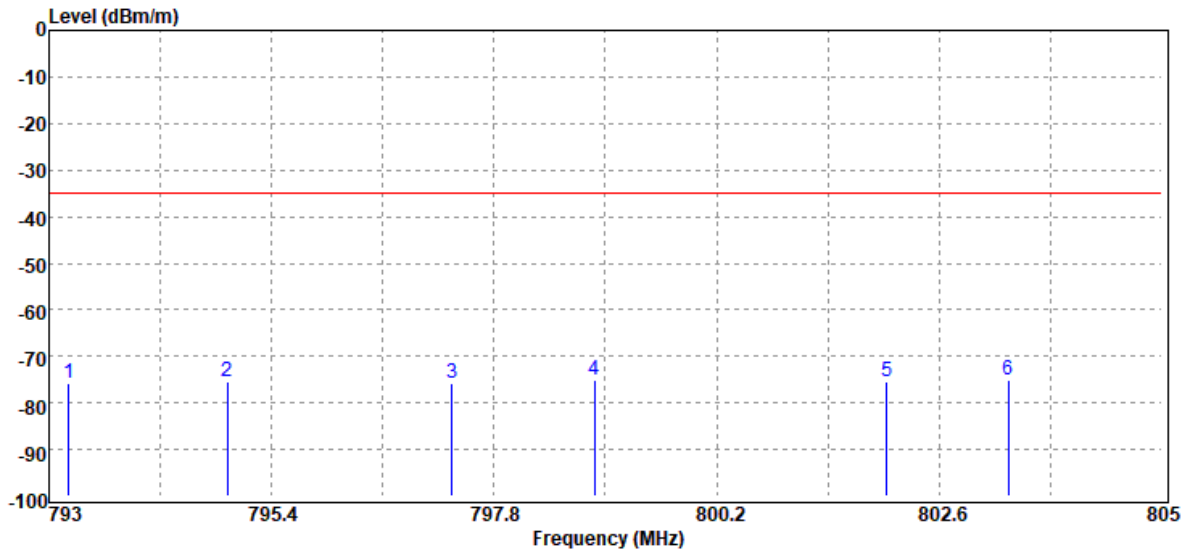
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Report Number :ER/2019/C0150  
Operation Mode :LTE B13  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Channel :782 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 793.22       | -75.70          | -71.01                    | -1.65                      | -3.04               | -35.00       | -40.70       |
| 794.92       | -75.53          | -70.83                    | -1.63                      | -3.07               | -35.00       | -40.53       |
| 797.34       | -75.81          | -71.09                    | -1.61                      | -3.11               | -35.00       | -40.81       |
| 798.88       | -75.16          | -70.43                    | -1.59                      | -3.14               | -35.00       | -40.16       |
| 802.04       | -75.54          | -70.78                    | -1.60                      | -3.16               | -35.00       | -40.54       |
| 803.34       | -75.20          | -70.43                    | -1.61                      | -3.16               | -35.00       | -40.20       |

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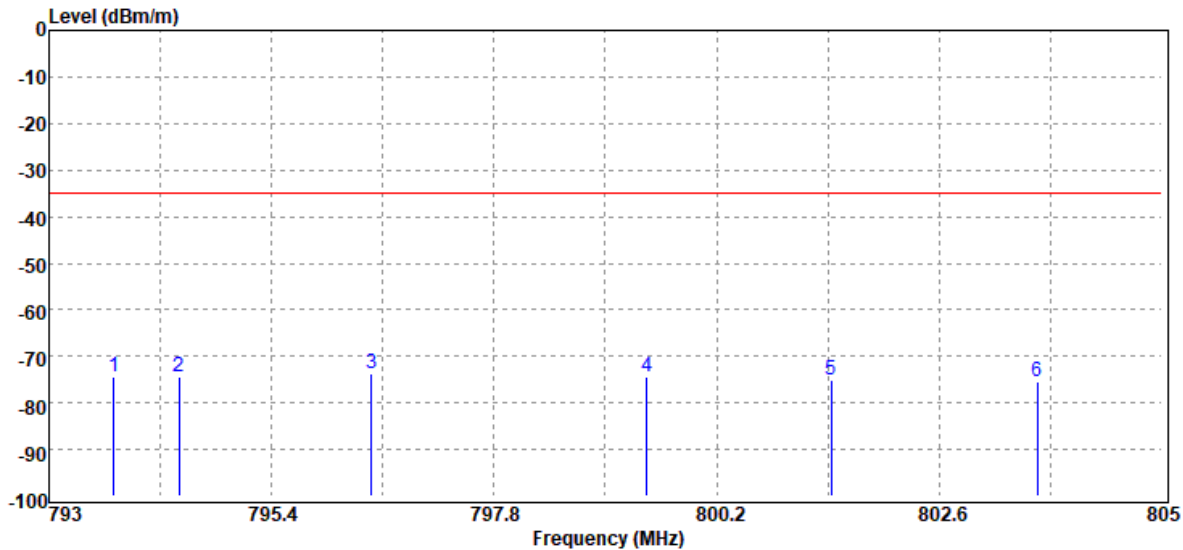
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Report Number :ER/2019/C0150  
Operation Mode :LTE B13  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Channel :784.5 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :VERTICAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 793.70       | -74.40          | -69.70                    | -1.65                      | -3.05               | -35.00       | -39.40       |
| 794.40       | -74.48          | -69.78                    | -1.64                      | -3.06               | -35.00       | -39.48       |
| 796.48       | -73.68          | -68.97                    | -1.62                      | -3.09               | -35.00       | -38.68       |
| 799.44       | -74.47          | -69.73                    | -1.59                      | -3.15               | -35.00       | -39.47       |
| 801.44       | -74.93          | -70.18                    | -1.59                      | -3.16               | -35.00       | -39.93       |
| 803.66       | -75.28          | -70.51                    | -1.61                      | -3.16               | -35.00       | -40.28       |

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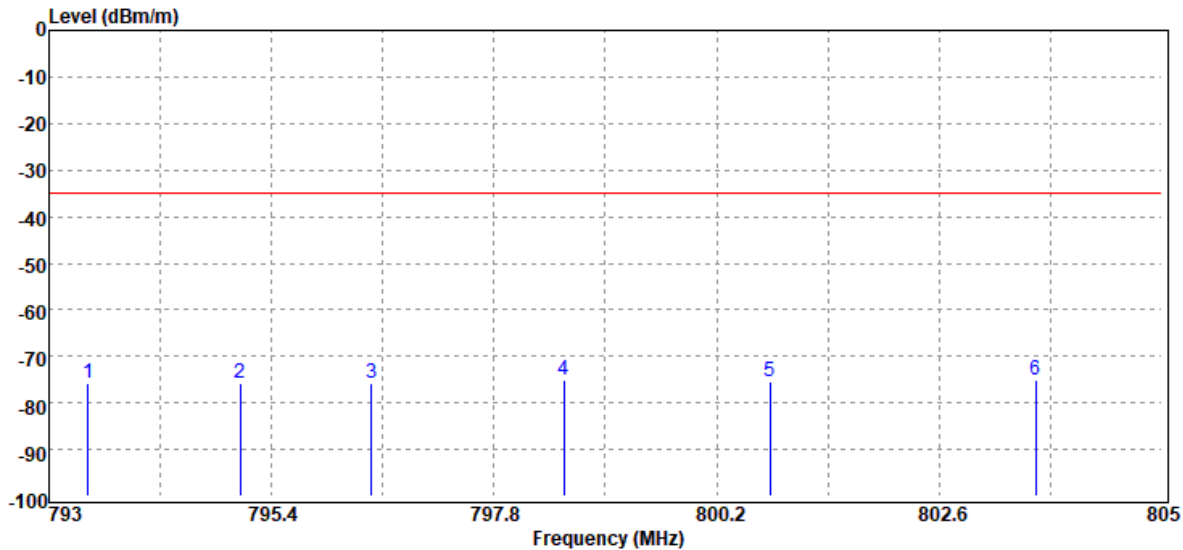
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Report Number :ER/2019/C0150  
Operation Mode :LTE B13  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Channel :784.5 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 793.42       | -75.90          | -71.21                    | -1.65                      | -3.04               | -35.00       | -40.90       |
| 795.06       | -75.77          | -71.07                    | -1.63                      | -3.07               | -35.00       | -40.77       |
| 796.48       | -75.62          | -70.91                    | -1.62                      | -3.09               | -35.00       | -40.62       |
| 798.56       | -75.24          | -70.52                    | -1.59                      | -3.13               | -35.00       | -40.24       |
| 800.78       | -75.34          | -70.59                    | -1.59                      | -3.16               | -35.00       | -40.34       |
| 803.64       | -75.11          | -70.34                    | -1.61                      | -3.16               | -35.00       | -40.11       |

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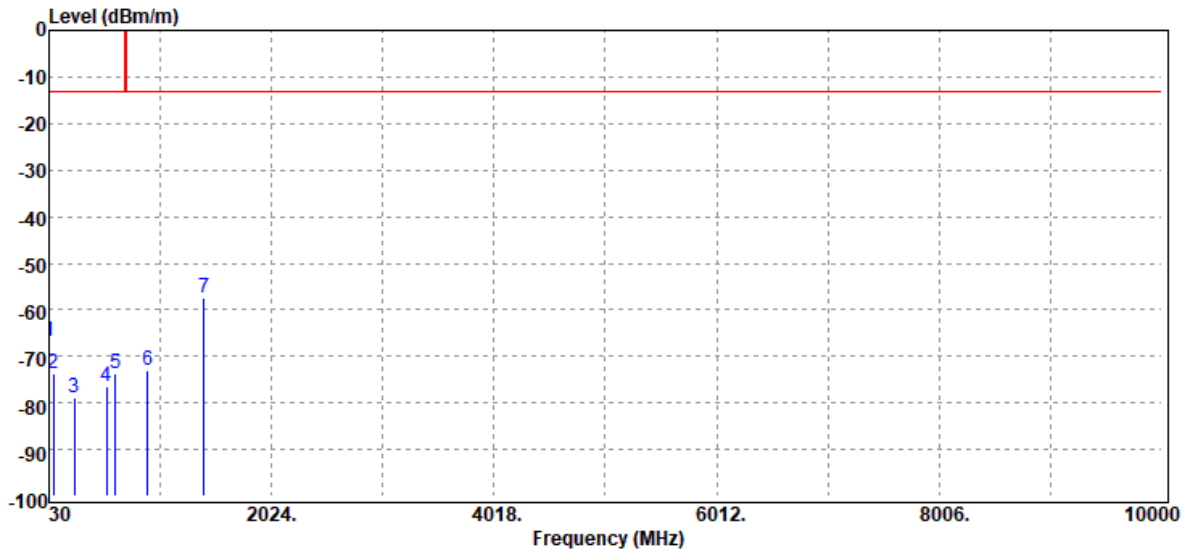
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### Radiated Spurious Emission Measurement Result: LTE-Band 17 (The Worst Case)

|                |                |              |             |
|----------------|----------------|--------------|-------------|
| Report Number  | :ER/2019/C0150 | Test Date    | :2020-01-17 |
| Operation Mode | :LTE B17       | Temp./Humi.  | :21.6/65    |
| Test Mode      | :Tx CH Low     | Antenna Pol. | :VERTICAL   |
| EUT Pol        | :H Plane       | Engineer     | :Thomas     |
| Test Channel   | :709 MHz       |              |             |



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -66.73          | -45.67                    | -20.49                     | -0.57               | -13.00       | -53.73       |
| 66.86        | -73.84          | -59.90                    | -13.15                     | -0.79               | -13.00       | -60.84       |
| 255.04       | -78.92          | -75.75                    | -1.61                      | -1.56               | -13.00       | -65.92       |
| 548.95       | -76.58          | -72.94                    | -1.43                      | -2.21               | -13.00       | -63.58       |
| 628.49       | -73.78          | -69.68                    | -1.64                      | -2.46               | -13.00       | -60.78       |
| 915.61       | -73.05          | -68.39                    | -1.83                      | -2.83               | -13.00       | -60.05       |
| 1418.00      | -57.46          | -61.69                    | 7.94                       | -3.71               | -13.00       | -44.46       |

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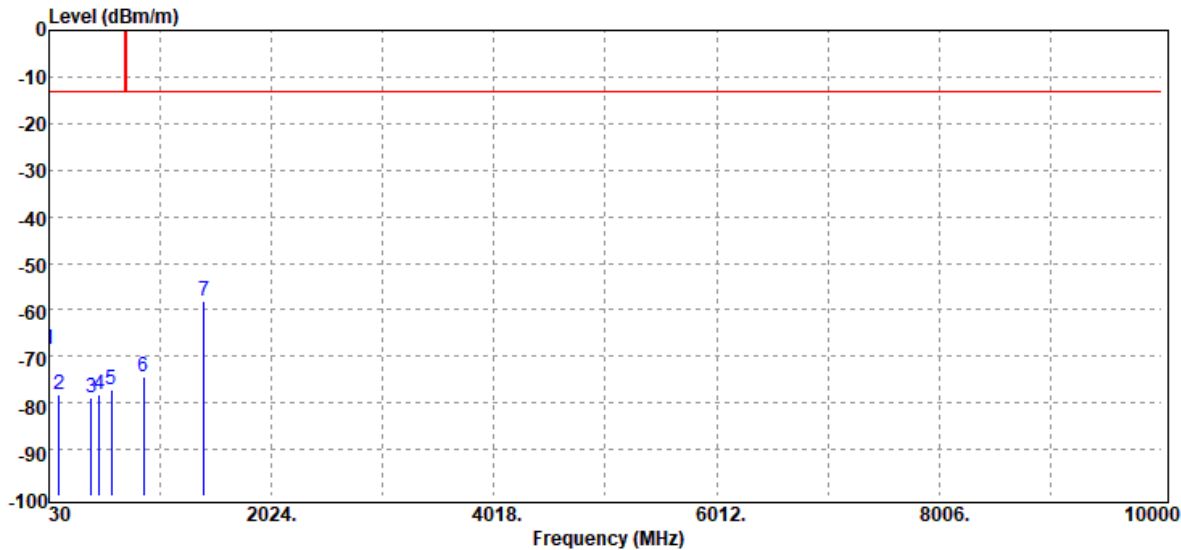
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Report Number :ER/2019/C0150  
Operation Mode :LTE B17  
Test Mode :Tx CH Low  
EUT Pol :H Plane  
Test Channel :709 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 30.00        | -68.58          | -46.86                    | -21.20                     | -0.52               | -13.00       | -55.58       |
| 122.15       | -78.36          | -70.22                    | -7.10                      | -1.04               | -13.00       | -65.36       |
| 406.36       | -78.73          | -75.21                    | -1.59                      | -1.93               | -13.00       | -65.73       |
| 479.11       | -78.21          | -74.52                    | -1.44                      | -2.25               | -13.00       | -65.21       |
| 589.69       | -77.00          | -73.35                    | -1.71                      | -1.94               | -13.00       | -64.00       |
| 875.84       | -74.42          | -70.21                    | -1.71                      | -2.50               | -13.00       | -61.42       |
| 1418.00      | -58.25          | -62.48                    | 7.94                       | -3.71               | -13.00       | -45.25       |

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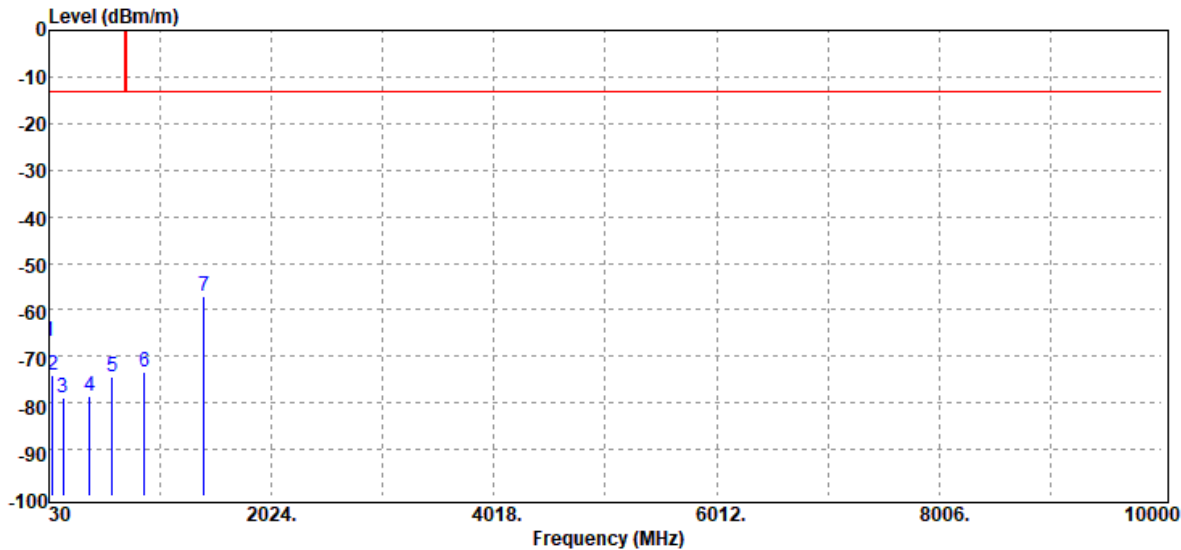
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Report Number :ER/2019/C0150  
Operation Mode :LTE B17  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Channel :710 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :VERTICAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -66.95          | -45.89                    | -20.49                     | -0.57               | -13.00       | -53.95       |
| 65.89        | -74.14          | -59.96                    | -13.40                     | -0.78               | -13.00       | -61.14       |
| 156.10       | -78.74          | -70.17                    | -7.26                      | -1.31               | -13.00       | -65.74       |
| 396.66       | -78.60          | -75.05                    | -1.61                      | -1.94               | -13.00       | -65.60       |
| 597.45       | -74.28          | -70.27                    | -1.81                      | -2.20               | -13.00       | -61.28       |
| 881.66       | -73.31          | -69.05                    | -1.73                      | -2.53               | -13.00       | -60.31       |
| 1420.00      | -57.11          | -61.34                    | 7.94                       | -3.71               | -13.00       | -44.11       |

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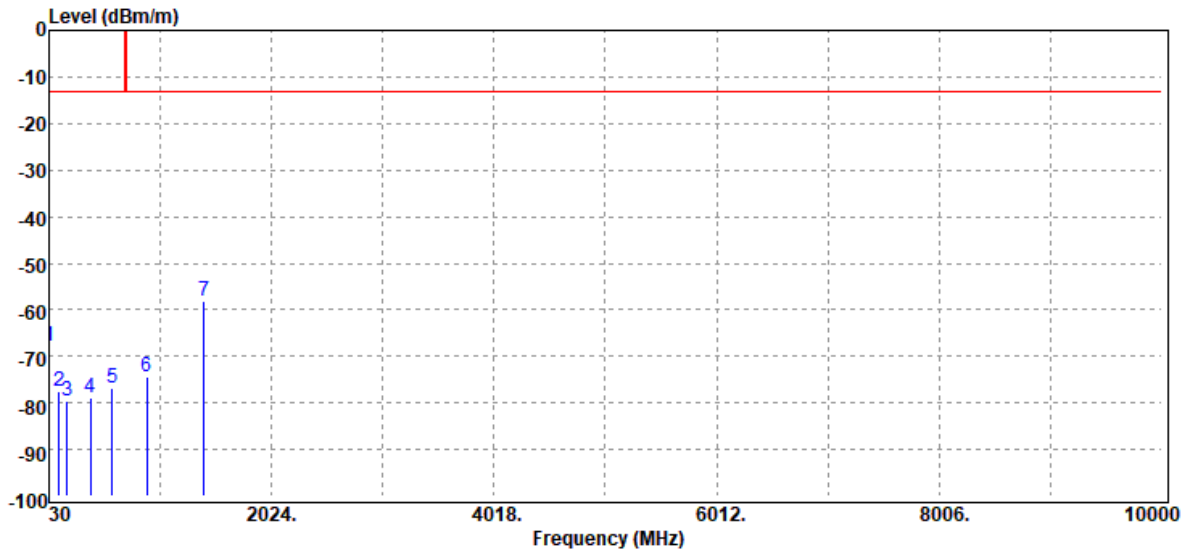
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Report Number :ER/2019/C0150  
Operation Mode :LTE B17  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Channel :710 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 30.00        | -67.70          | -45.98                    | -21.20                     | -0.52               | -13.00       | -54.70       |
| 122.15       | -77.65          | -69.51                    | -7.10                      | -1.04               | -13.00       | -64.65       |
| 191.99       | -79.61          | -75.49                    | -2.77                      | -1.35               | -13.00       | -66.61       |
| 401.51       | -78.73          | -75.21                    | -1.60                      | -1.92               | -13.00       | -65.73       |
| 597.45       | -76.67          | -72.66                    | -1.81                      | -2.20               | -13.00       | -63.67       |
| 905.91       | -74.48          | -69.84                    | -1.82                      | -2.82               | -13.00       | -61.48       |
| 1420.00      | -58.04          | -62.27                    | 7.94                       | -3.71               | -13.00       | -45.04       |

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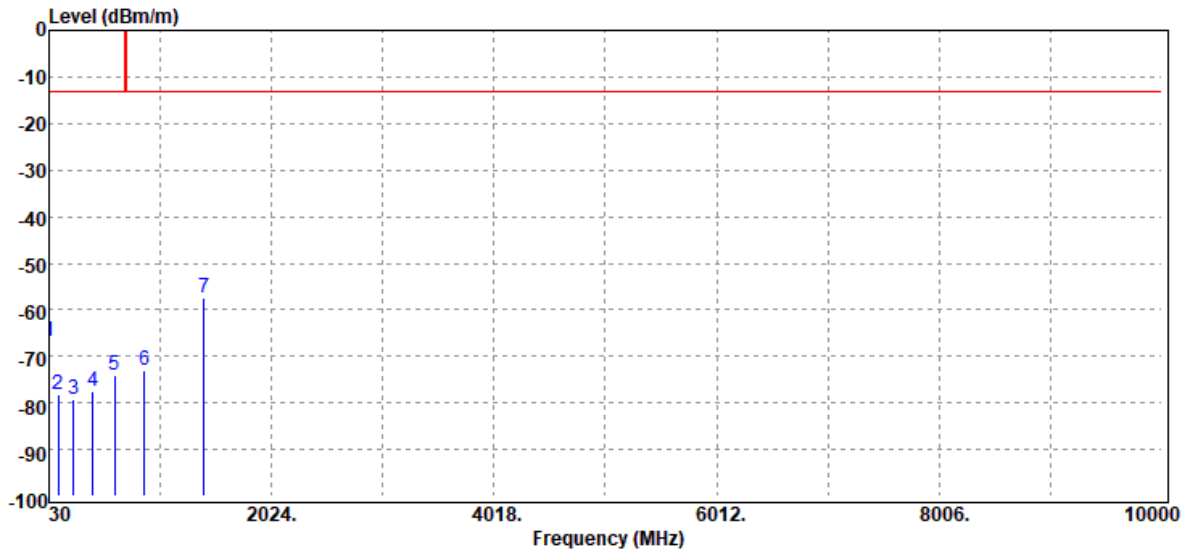
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Report Number :ER/2019/C0150  
Operation Mode :LTE B17  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Channel :711 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :VERTICAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -66.62          | -45.56                    | -20.49                     | -0.57               | -13.00       | -53.62       |
| 115.36       | -78.30          | -70.14                    | -7.14                      | -1.02               | -13.00       | -65.30       |
| 248.25       | -79.36          | -76.20                    | -1.67                      | -1.49               | -13.00       | -66.36       |
| 422.85       | -77.35          | -73.80                    | -1.62                      | -1.93               | -13.00       | -64.35       |
| 616.85       | -74.15          | -69.81                    | -1.80                      | -2.54               | -13.00       | -61.15       |
| 886.51       | -73.08          | -68.75                    | -1.72                      | -2.61               | -13.00       | -60.08       |
| 1422.00      | -57.45          | -61.68                    | 7.94                       | -3.71               | -13.00       | -44.45       |

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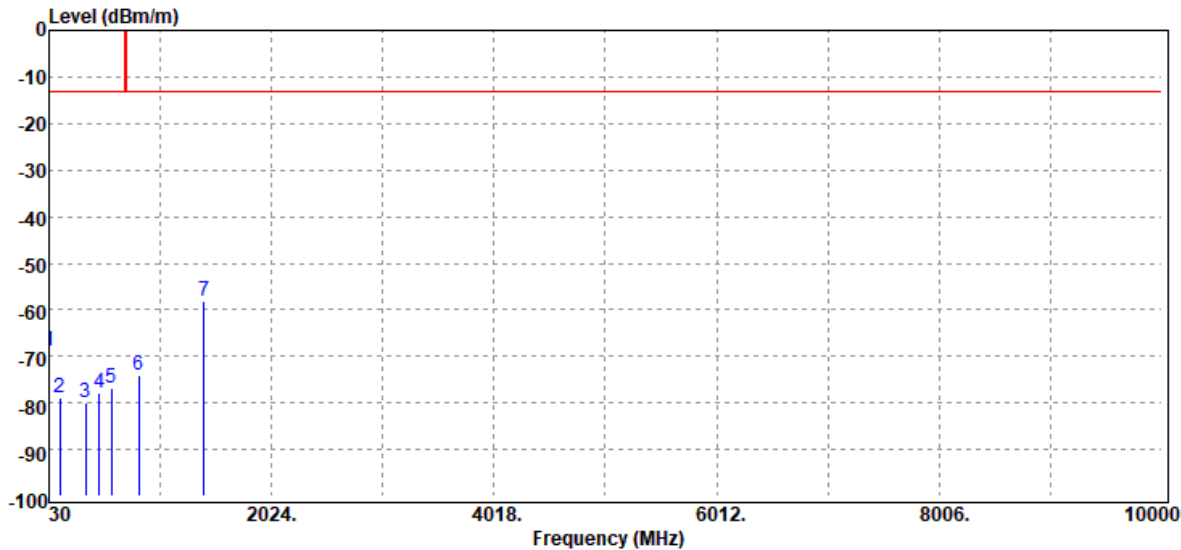
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Report Number :ER/2019/C0150  
Operation Mode :LTE B17  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Channel :711 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -68.98          | -47.92                    | -20.49                     | -0.57               | -13.00       | -55.98       |
| 128.94       | -78.95          | -70.63                    | -7.23                      | -1.09               | -13.00       | -65.95       |
| 361.74       | -80.10          | -76.64                    | -1.54                      | -1.92               | -13.00       | -67.10       |
| 483.96       | -78.01          | -74.27                    | -1.51                      | -2.23               | -13.00       | -65.01       |
| 590.66       | -76.88          | -73.20                    | -1.72                      | -1.96               | -13.00       | -63.88       |
| 835.10       | -74.06          | -69.26                    | -1.81                      | -2.99               | -13.00       | -61.06       |
| 1422.00      | -58.21          | -62.44                    | 7.94                       | -3.71               | -13.00       | -45.21       |

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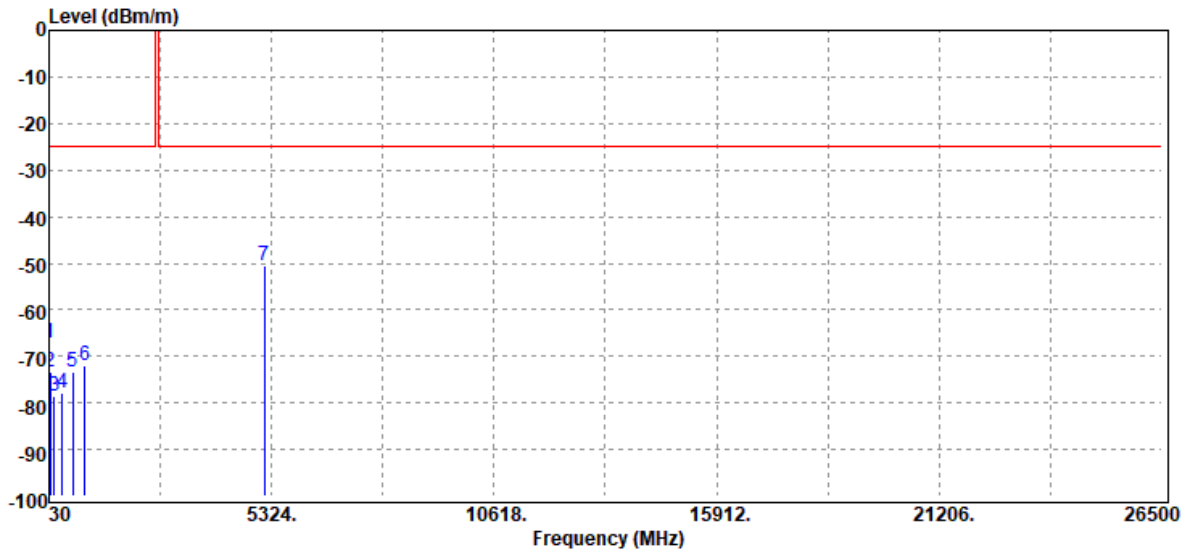
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### Radiated Spurious Emission Measurement Result: LTE-Band 38 (The Worst Case)

|                |                |              |             |
|----------------|----------------|--------------|-------------|
| Report Number  | :ER/2019/C0150 | Test Date    | :2020-01-17 |
| Operation Mode | :LTE B38       | Temp./Humi.  | :21.6/65    |
| Test Mode      | :Tx CH Low     | Antenna Pol. | :VERTICAL   |
| EUT Pol        | :H Plane       | Engineer     | :Thomas     |
| Test Channel   | :2580 MHz      |              |             |



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 34.85        | -66.99          | -46.50                    | -19.90                     | -0.59               | -25.00       | -41.99       |
| 66.86        | -73.36          | -59.42                    | -13.15                     | -0.79               | -25.00       | -48.36       |
| 153.19       | -78.63          | -69.91                    | -7.46                      | -1.26               | -25.00       | -53.63       |
| 348.16       | -77.75          | -74.36                    | -1.50                      | -1.89               | -25.00       | -52.75       |
| 597.45       | -73.49          | -69.48                    | -1.81                      | -2.20               | -25.00       | -48.49       |
| 885.54       | -71.98          | -67.67                    | -1.71                      | -2.60               | -25.00       | -46.98       |
| 5160.00      | -50.47          | -55.50                    | 12.14                      | -7.11               | -25.00       | -25.47       |

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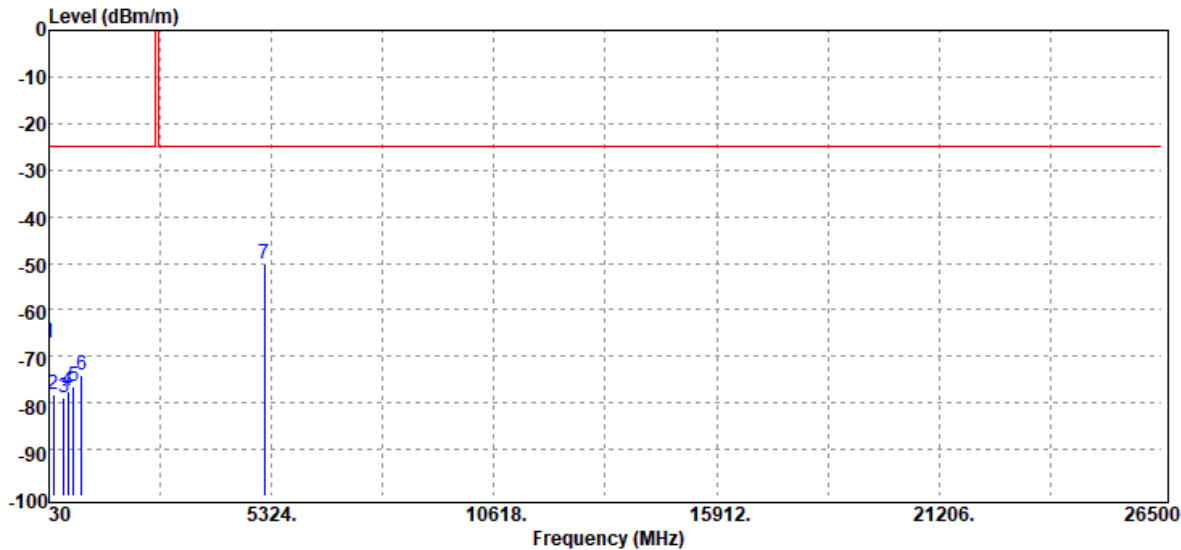
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Report Number :ER/2019/C0150  
Operation Mode :LTE B38  
Test Mode :Tx CH Low  
EUT Pol :H Plane  
Test Channel :2580 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -66.99          | -45.93                    | -20.49                     | -0.57               | -25.00       | -41.99       |
| 129.91       | -78.21          | -69.85                    | -7.26                      | -1.10               | -25.00       | -53.21       |
| 382.11       | -78.95          | -75.38                    | -1.64                      | -1.93               | -25.00       | -53.95       |
| 481.05       | -77.35          | -73.67                    | -1.44                      | -2.24               | -25.00       | -52.35       |
| 616.85       | -76.36          | -72.02                    | -1.80                      | -2.54               | -25.00       | -51.36       |
| 796.30       | -73.95          | -69.24                    | -1.62                      | -3.09               | -25.00       | -48.95       |
| 5160.00      | -50.07          | -55.10                    | 12.14                      | -7.11               | -25.00       | -25.07       |

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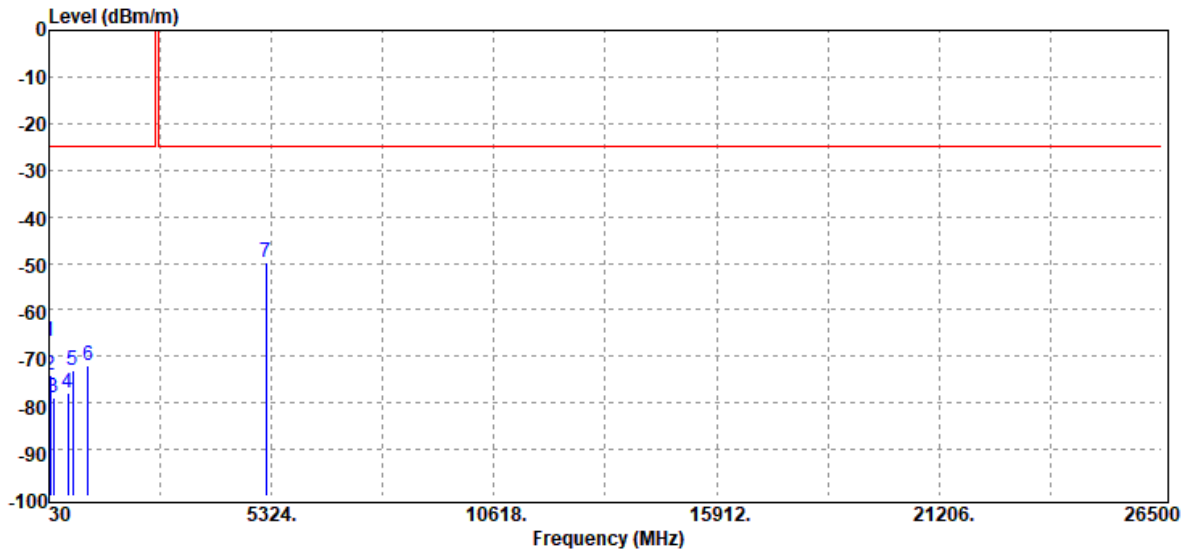
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Report Number :ER/2019/C0150  
Operation Mode :LTE B38  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Channel :2595 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :VERTICAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -66.71          | -45.65                    | -20.49                     | -0.57               | -25.00       | -41.71       |
| 66.86        | -74.07          | -60.13                    | -13.15                     | -0.79               | -25.00       | -49.07       |
| 143.49       | -78.96          | -69.85                    | -7.95                      | -1.16               | -25.00       | -53.96       |
| 473.29       | -77.99          | -74.22                    | -1.51                      | -2.26               | -25.00       | -52.99       |
| 595.51       | -73.15          | -69.26                    | -1.76                      | -2.13               | -25.00       | -48.15       |
| 964.11       | -71.86          | -66.71                    | -1.86                      | -3.29               | -25.00       | -46.86       |
| 5190.00      | -49.91          | -55.00                    | 12.26                      | -7.17               | -25.00       | -24.91       |

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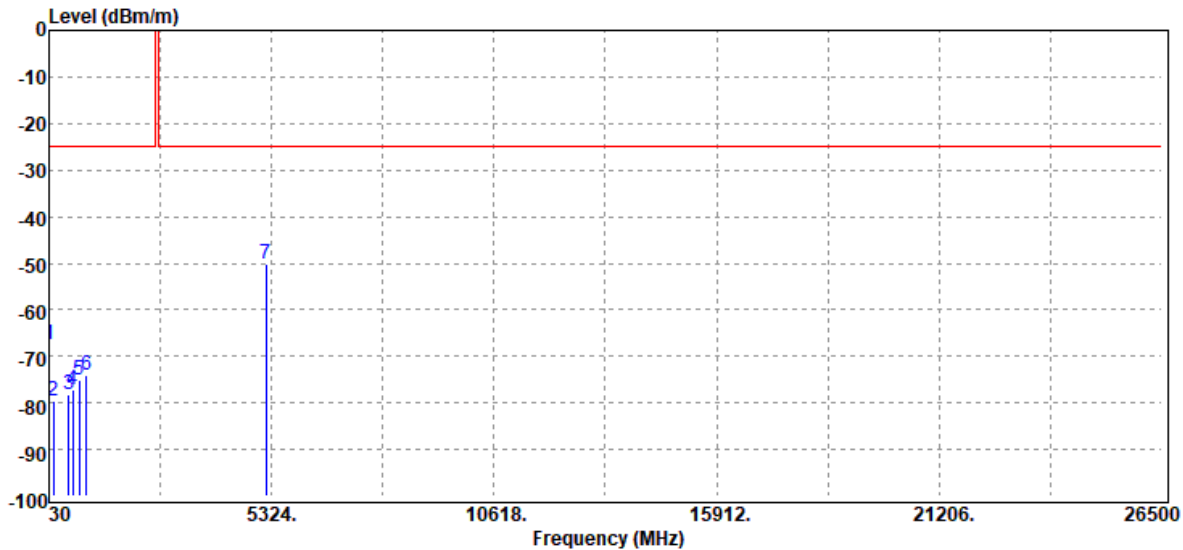
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Report Number :ER/2019/C0150  
Operation Mode :LTE B38  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Channel :2595 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -67.46          | -46.40                    | -20.49                     | -0.57               | -25.00       | -42.46       |
| 129.91       | -79.54          | -71.18                    | -7.26                      | -1.10               | -25.00       | -54.54       |
| 490.75       | -78.07          | -74.31                    | -1.54                      | -2.22               | -25.00       | -53.07       |
| 602.30       | -77.32          | -73.03                    | -1.94                      | -2.35               | -25.00       | -52.32       |
| 747.80       | -75.19          | -70.92                    | -1.82                      | -2.45               | -25.00       | -50.19       |
| 929.19       | -74.22          | -69.44                    | -1.88                      | -2.90               | -25.00       | -49.22       |
| 5190.00      | -50.26          | -55.35                    | 12.26                      | -7.17               | -25.00       | -25.26       |

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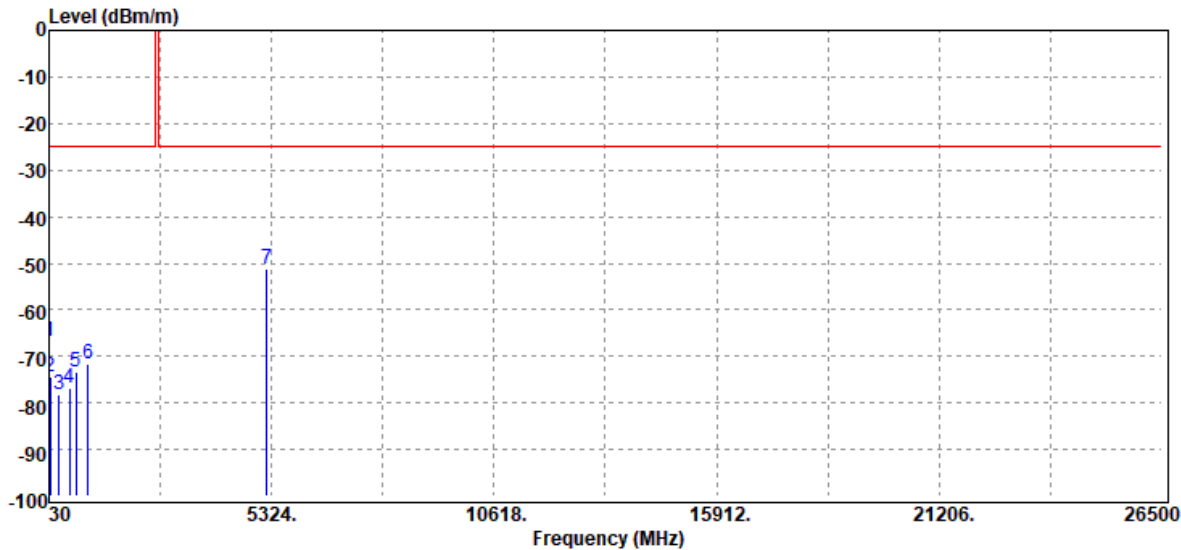
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Report Number :ER/2019/C0150  
Operation Mode :LTE B38  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Channel :2610 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :VERTICAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -66.88          | -45.82                    | -20.49                     | -0.57               | -25.00       | -41.88       |
| 66.86        | -74.25          | -60.31                    | -13.15                     | -0.79               | -25.00       | -49.25       |
| 260.86       | -78.29          | -75.01                    | -1.66                      | -1.62               | -25.00       | -53.29       |
| 510.15       | -76.98          | -72.91                    | -1.49                      | -2.58               | -25.00       | -51.98       |
| 667.29       | -73.44          | -69.10                    | -1.30                      | -3.04               | -25.00       | -48.44       |
| 966.05       | -71.69          | -66.56                    | -1.86                      | -3.27               | -25.00       | -46.69       |
| 5220.00      | -51.05          | -56.32                    | 12.46                      | -7.19               | -25.00       | -26.05       |

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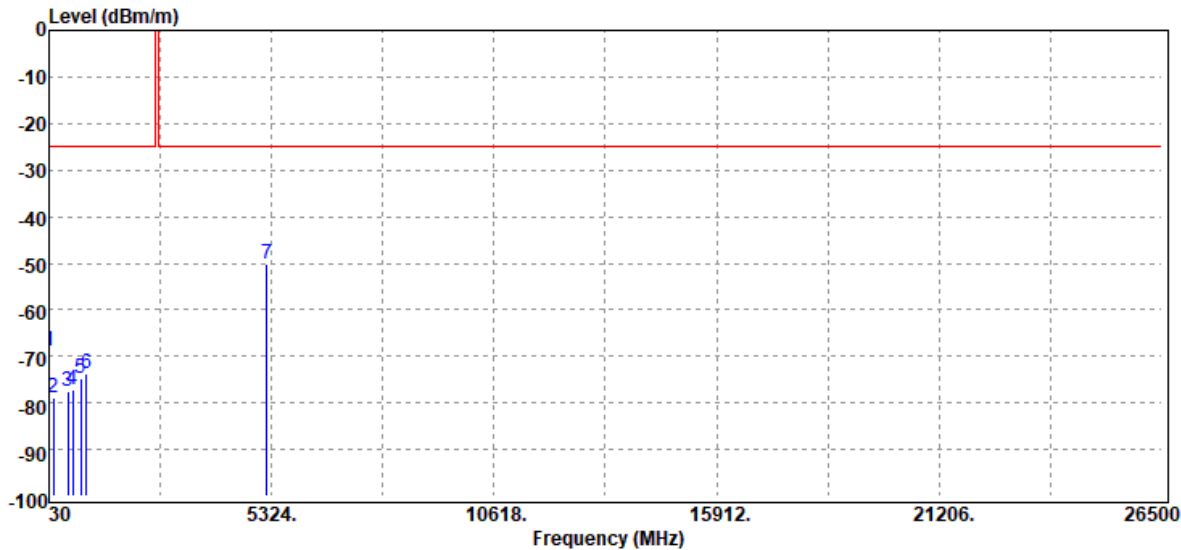
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Report Number :ER/2019/C0150  
Operation Mode :LTE B38  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Channel :2610 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -68.75          | -47.69                    | -20.49                     | -0.57               | -25.00       | -43.75       |
| 127.00       | -79.04          | -70.80                    | -7.16                      | -1.08               | -25.00       | -54.04       |
| 482.99       | -77.60          | -73.88                    | -1.49                      | -2.23               | -25.00       | -52.60       |
| 604.24       | -77.11          | -72.73                    | -1.98                      | -2.40               | -25.00       | -52.11       |
| 781.75       | -74.79          | -70.38                    | -1.68                      | -2.73               | -25.00       | -49.79       |
| 920.46       | -73.75          | -68.94                    | -1.96                      | -2.85               | -25.00       | -48.75       |
| 5220.00      | -50.02          | -55.29                    | 12.46                      | -7.19               | -25.00       | -25.02       |

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# Radiated Spurious Emission Measurement Result: LTE-Band 41 (The Worst Case)

Report Number :ER/2019/C0150

Test Date :2020-01-17

Operation Mode :LTE B41

Temp./Humi. :21.6/65

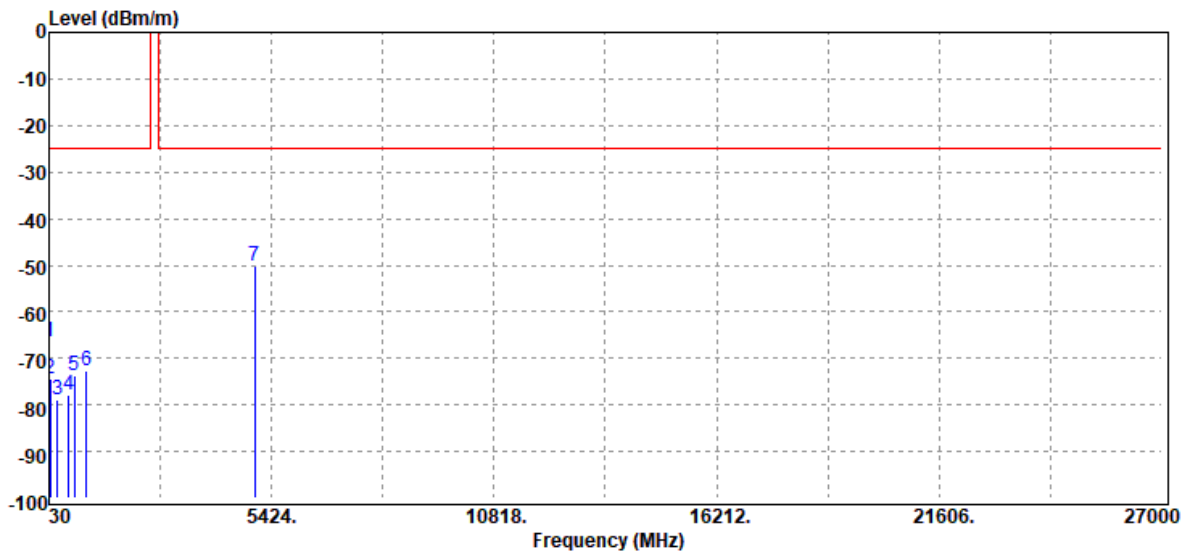
Test Mode :Tx CH Low

Antenna Pol. :VERTICAL

EUT Pol :H Plane

Engineer :Thomas

Test Channel :2506 MHz



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -66.48          | -45.42                    | -20.49                     | -0.57               | -25.00       | -41.48       |
| 68.80        | -74.33          | -61.08                    | -12.45                     | -0.80               | -25.00       | -49.33       |
| 238.55       | -78.85          | -75.70                    | -1.71                      | -1.44               | -25.00       | -53.85       |
| 503.36       | -77.95          | -74.06                    | -1.47                      | -2.42               | -25.00       | -52.95       |
| 636.25       | -73.71          | -69.67                    | -1.56                      | -2.48               | -25.00       | -48.71       |
| 939.86       | -72.83          | -67.83                    | -1.98                      | -3.02               | -25.00       | -47.83       |
| 5012.00      | -50.24          | -55.57                    | 12.35                      | -7.02               | -25.00       | -25.24       |

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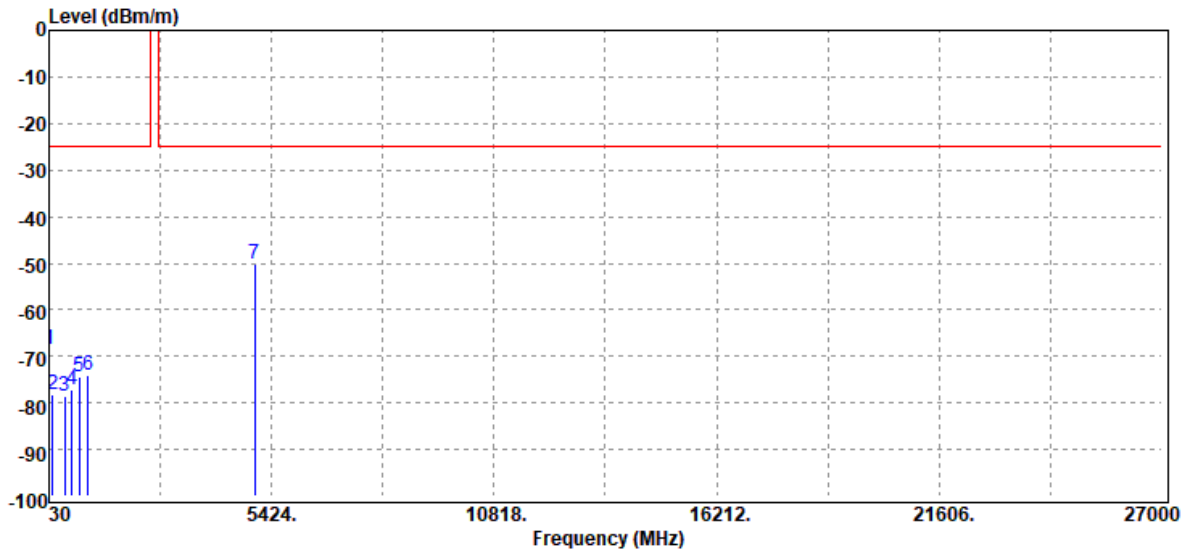
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Report Number :ER/2019/C0150  
Operation Mode :LTE B41  
Test Mode :Tx CH Low  
EUT Pol :H Plane  
Test Channel :2506 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -68.35          | -47.29                    | -20.49                     | -0.57               | -25.00       | -43.35       |
| 124.09       | -78.17          | -70.05                    | -7.07                      | -1.05               | -25.00       | -53.17       |
| 401.51       | -78.55          | -75.03                    | -1.60                      | -1.92               | -25.00       | -53.55       |
| 594.54       | -77.05          | -73.20                    | -1.75                      | -2.10               | -25.00       | -52.05       |
| 769.14       | -74.26          | -69.96                    | -1.72                      | -2.58               | -25.00       | -49.26       |
| 973.81       | -73.90          | -68.84                    | -1.79                      | -3.27               | -25.00       | -48.90       |
| 5012.00      | -50.34          | -55.67                    | 12.35                      | -7.02               | -25.00       | -25.34       |

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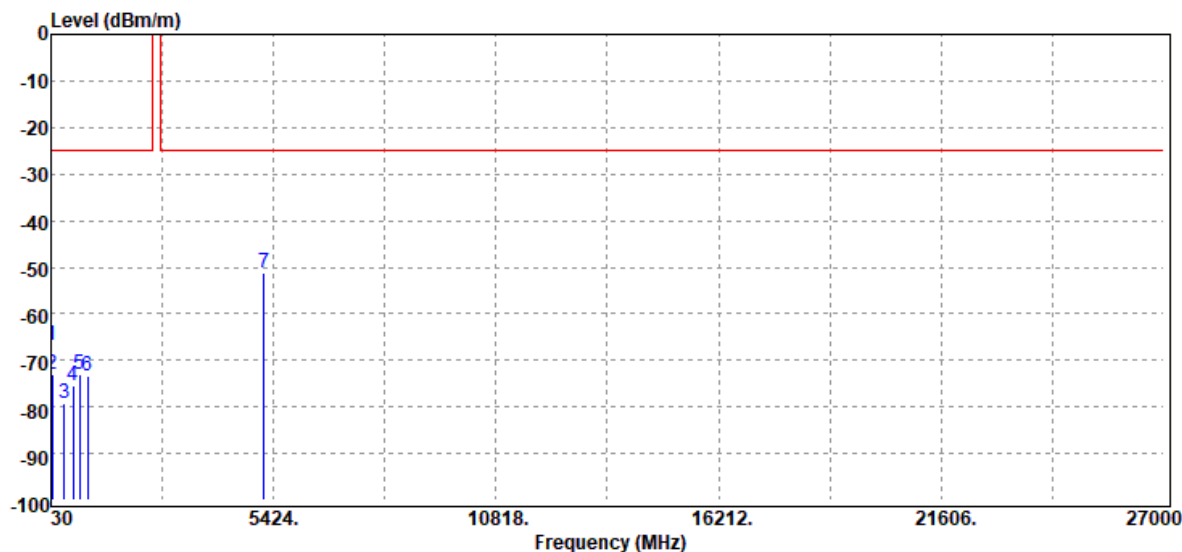
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Report Number :ER/2019/C0150  
Operation Mode :LTE B41  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Channel :2593 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :VERTICAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -66.89          | -45.83                    | -20.49                     | -0.57               | -25.00       | -41.89       |
| 66.86        | -73.16          | -59.22                    | -13.15                     | -0.79               | -25.00       | -48.16       |
| 347.19       | -79.08          | -75.66                    | -1.53                      | -1.89               | -25.00       | -54.08       |
| 561.56       | -75.42          | -71.74                    | -1.39                      | -2.29               | -25.00       | -50.42       |
| 723.55       | -73.15          | -69.45                    | -1.35                      | -2.35               | -25.00       | -48.15       |
| 920.46       | -73.23          | -68.42                    | -1.96                      | -2.85               | -25.00       | -48.23       |
| 5186.00      | -51.04          | -56.12                    | 12.24                      | -7.16               | -25.00       | -26.04       |

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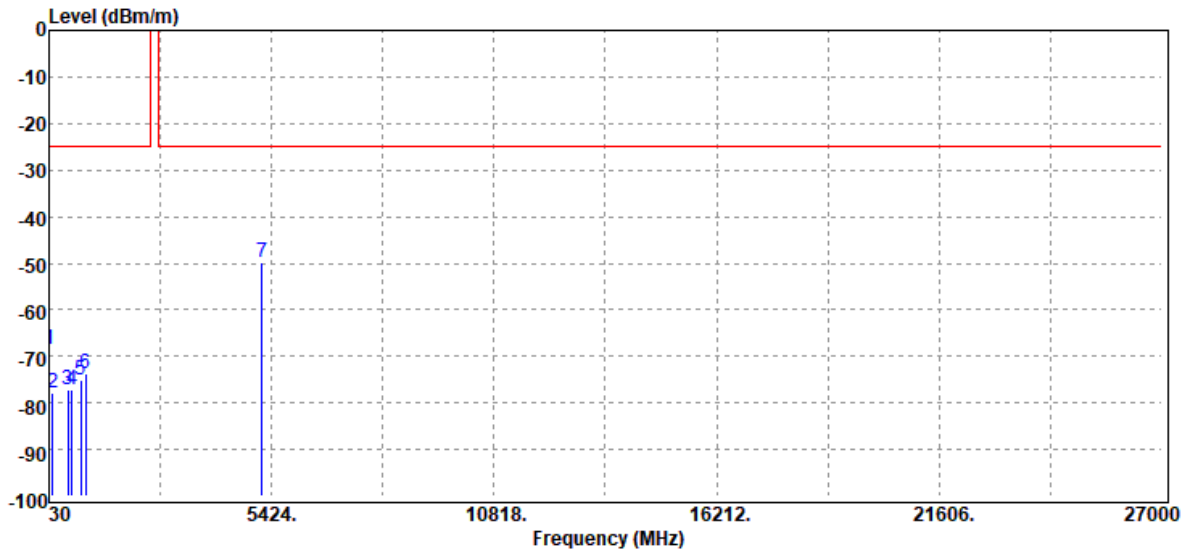
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Report Number :ER/2019/C0150  
Operation Mode :LTE B41  
Test Mode :Tx CH Mid  
EUT Pol :H Plane  
Test Channel :2593 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 30.00        | -68.37          | -46.65                    | -21.20                     | -0.52               | -25.00       | -43.37       |
| 120.21       | -77.91          | -69.83                    | -7.06                      | -1.02               | -25.00       | -52.91       |
| 479.11       | -77.30          | -73.61                    | -1.44                      | -2.25               | -25.00       | -52.30       |
| 589.69       | -77.14          | -73.49                    | -1.71                      | -1.94               | -25.00       | -52.14       |
| 791.45       | -75.01          | -70.33                    | -1.67                      | -3.01               | -25.00       | -50.01       |
| 915.61       | -73.76          | -69.10                    | -1.83                      | -2.83               | -25.00       | -48.76       |
| 5186.00      | -49.86          | -54.94                    | 12.24                      | -7.16               | -25.00       | -24.86       |

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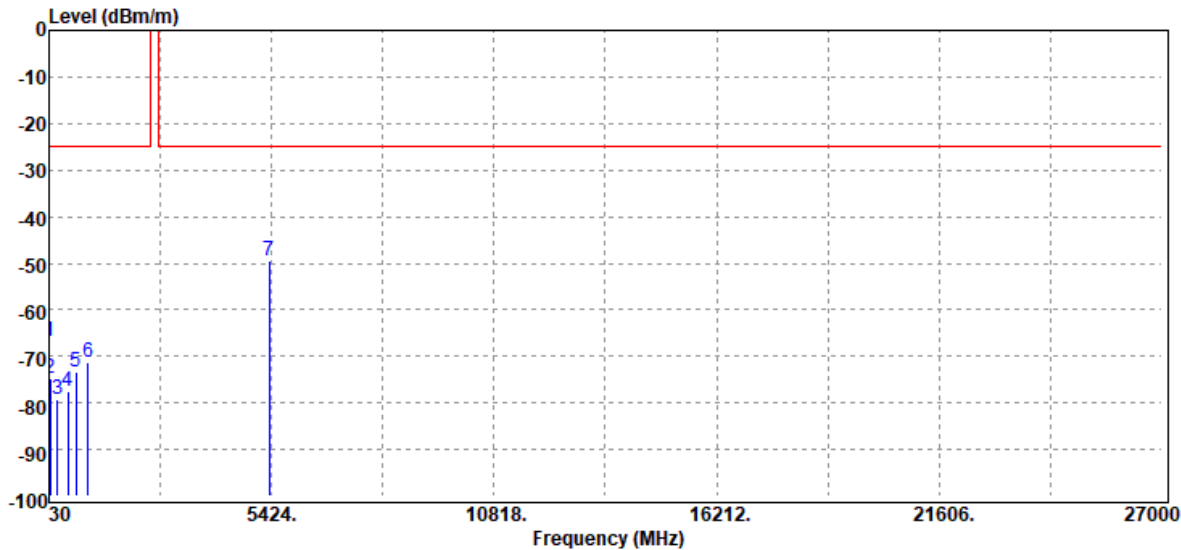
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Report Number :ER/2019/C0150  
Operation Mode :LTE B41  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Channel :2680 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :VERTICAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -66.77          | -45.71                    | -20.49                     | -0.57               | -25.00       | -41.77       |
| 65.89        | -74.57          | -60.39                    | -13.40                     | -0.78               | -25.00       | -49.57       |
| 236.61       | -79.16          | -76.04                    | -1.66                      | -1.46               | -25.00       | -54.16       |
| 482.99       | -77.40          | -73.68                    | -1.49                      | -2.23               | -25.00       | -52.40       |
| 681.84       | -73.46          | -69.65                    | -1.30                      | -2.51               | -25.00       | -48.46       |
| 967.99       | -71.20          | -66.06                    | -1.88                      | -3.26               | -25.00       | -46.20       |
| 5360.00      | -49.65          | -55.25                    | 12.90                      | -7.30               | -25.00       | -24.65       |

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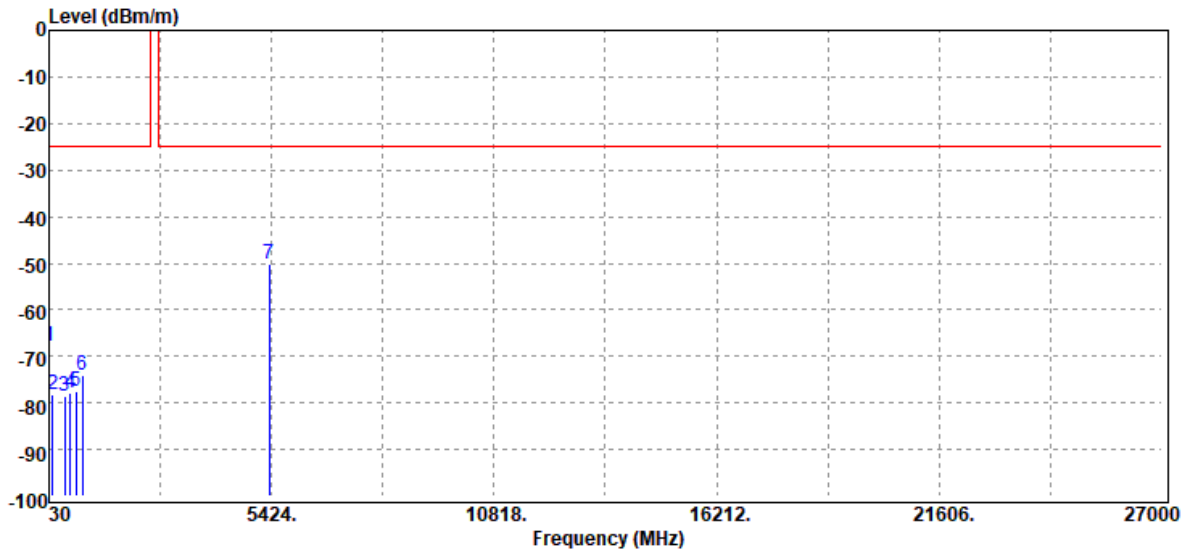
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Report Number :ER/2019/C0150  
Operation Mode :LTE B41  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Channel :2680 MHz

Test Date :2020-01-17  
Temp./Humi. :21.6/65  
Antenna Pol. :HORIZONTAL  
Engineer :Thomas



| Freq.<br>MHz | EIRP/ERP<br>dBm | SG<br>Output Level<br>dBm | Antenna<br>Gain<br>dBi/dBd | Cable<br>Loss<br>dB | Limit<br>dBm | Margin<br>dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 32.91        | -67.84          | -46.78                    | -20.49                     | -0.57               | -25.00       | -42.84       |
| 124.09       | -78.09          | -69.97                    | -7.07                      | -1.05               | -25.00       | -53.09       |
| 413.15       | -78.49          | -74.96                    | -1.58                      | -1.95               | -25.00       | -53.49       |
| 553.80       | -77.78          | -74.08                    | -1.45                      | -2.25               | -25.00       | -52.78       |
| 682.81       | -77.38          | -73.56                    | -1.31                      | -2.51               | -25.00       | -52.38       |
| 842.86       | -74.06          | -69.27                    | -1.72                      | -3.07               | -25.00       | -49.06       |
| 5360.00      | -50.32          | -55.92                    | 12.90                      | -7.30               | -25.00       | -25.32       |

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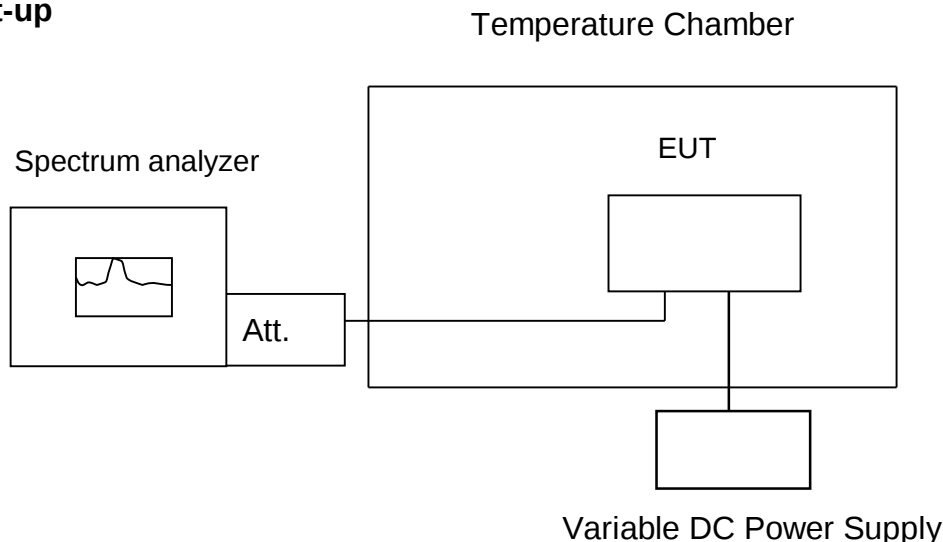
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## 10. FREQUENCY STABILITY MEASUREMENT

### 10.1. Standard Applicable

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

### 10.2. Test Set-up



**Note:** Measurement setup for testing on Antenna connector

### 10.3. Measurement Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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#### 10.4. Measurement Equipment Used

| EQUIPMENT TYPE               | MFR           | MODEL NUM-BER | SERIAL NUM-BER | LAST CAL.  | CAL DUE.   |
|------------------------------|---------------|---------------|----------------|------------|------------|
| Radio Communication Analyser | Anritsu       | MT8820C       | 6200995019     | 04/01/2019 | 03/31/2020 |
| DC Power Supply              | Agilent       | E3640A        | MY52410006     | 12/10/2019 | 12/09/2020 |
| Temperature Chamber          | TERCHY        | MHG-120LF     | 911009         | 05/17/2019 | 05/16/2020 |
| EXA Spectrum Analyzer        | KEYSIGHT      | N9010A        | MY57120290     | 02/13/2019 | 02/12/2020 |
| Attenuator                   | Mini-Circuit  | BW-S10W2+     | 2              | 01/02/2020 | 01/01/2021 |
| DC Block                     | Mini-Circuits | BLK-18-S+     | 1              | 01/02/2020 | 01/01/2021 |
| Splitter                     | RF-LAMBAD     | RFLT2W1G18G   | 11-JSPF412-018 | 01/02/2020 | 01/01/2021 |

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## 10.5. Measurement Result

|                             |            |             |            |            |
|-----------------------------|------------|-------------|------------|------------|
| GPRS 850 Mid Channel        |            | 836.6       | MHz        |            |
| Limit: +/- 2.5 ppm          |            |             |            |            |
| Vdc                         | Temp. (°C) | Freq. (MHz) | Delta (Hz) | Limit (Hz) |
| FREQUENCY ERROR vs. VOLTAGE |            |             |            |            |
| 4                           | 20         | 836.599999  | -1         | 2091       |
| 3.85                        | 20         | 836.599999  | -1         | 2091       |
| 3.7                         | 20         | 836.599992  | -8         | 2091       |
| 3.09 (End point)            | 20         | 836.59999   | -10        | 2091       |
| FREQUENCY ERROR vs. Temp.   |            |             |            |            |
| 3.85                        | 50         | 836.599992  | -8         | 2091       |
| 3.85                        | 40         | 836.600009  | 9          | 2091       |
| 3.85                        | 30         | 836.599996  | -4         | 2091       |
| 3.85                        | 20         | 836.600005  | 5          | 2091       |
| 3.85                        | 10         | 836.599991  | -9         | 2091       |
| 3.85                        | 0          | 836.599991  | -9         | 2091       |
| 3.85                        | -10        | 836.599997  | -3         | 2091       |
| 3.85                        | -20        | 836.600005  | 5          | 2091       |
| 3.85                        | -30        | 836.600002  | 2          | 2091       |

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| GPRS 1900 Mid Channel              |            |             | 1880       | MHz        |
|------------------------------------|------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm                 |            |             |            |            |
| Vdc                                | Temp. (°C) | Freq. (MHz) | Delta (Hz) | Limit (Hz) |
| <b>FREQUENCY ERROR vs. VOLTAGE</b> |            |             |            |            |
| 4                                  | 20         | 1880.000007 | 7          | 4700       |
| 3.85                               | 20         | 1879.999991 | -9         | 4700       |
| 3.7                                | 20         | 1880.000001 | 1          | 4700       |
| 3.09 (End point)                   | 20         | 1879.999994 | -6         | 4700       |
| <b>FREQUENCY ERROR vs. Temp.</b>   |            |             |            |            |
| 3.85                               | 50         | 1880.000009 | 9          | 4700       |
| 3.85                               | 40         | 1880        | 0          | 4700       |
| 3.85                               | 30         | 1880.000003 | 3          | 4700       |
| 3.85                               | 20         | 1880.000007 | 7          | 4700       |
| 3.85                               | 10         | 1880.000005 | 5          | 4700       |
| 3.85                               | 0          | 1879.999991 | -9         | 4700       |
| 3.85                               | -10        | 1880.000004 | 4          | 4700       |
| 3.85                               | -20        | 1879.999996 | -4         | 4700       |
| 3.85                               | -30        | 1880.000008 | 8          | 4700       |

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| WCDMA II Mid Channel        |            |             | 1880       | MHz        |
|-----------------------------|------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm          |            |             |            |            |
| Vdc                         | Temp. (°C) | Freq. (MHz) | Delta (Hz) | Limit (Hz) |
| FREQUENCY ERROR vs. VOLTAGE |            |             |            |            |
| 4                           | 20         | 1880.000002 | 2          | 4700       |
| 3.85                        | 20         | 1879.999998 | -2         | 4700       |
| 3.7                         | 20         | 1880.000002 | 2          | 4700       |
| 3.09 (End point)            | 20         | 1879.99999  | -10        | 4700       |
| FREQUENCY ERROR vs. Temp.   |            |             |            |            |
| 3.85                        | 50         | 1880.00001  | 10         | 4700       |
| 3.85                        | 40         | 1880.000008 | 8          | 4700       |
| 3.85                        | 30         | 1879.999996 | -4         | 4700       |
| 3.85                        | 20         | 1880.000007 | 7          | 4700       |
| 3.85                        | 10         | 1879.999991 | -9         | 4700       |
| 3.85                        | 0          | 1880.000005 | 5          | 4700       |
| 3.85                        | -10        | 1879.999997 | -3         | 4700       |
| 3.85                        | -20        | 1880.000007 | 7          | 4700       |
| 3.85                        | -30        | 1879.999997 | -3         | 4700       |

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|                             |            |             |            |            |
|-----------------------------|------------|-------------|------------|------------|
| WCDMA IV Mid Channel        |            | 1732.6      | MHz        |            |
| Limit: +/- 2.5 ppm          |            |             |            |            |
| Vdc                         | Temp. (°C) | Freq. (MHz) | Delta (Hz) | Limit (Hz) |
| FREQUENCY ERROR vs. VOLTAGE |            |             |            |            |
| 4                           | 20         | 1732.599997 | -3         | 4331       |
| 3.85                        | 20         | 1732.599995 | -5         | 4331       |
| 3.7                         | 20         | 1732.599995 | -5         | 4331       |
| 3.09 (End point)            | 20         | 1732.600007 | 7          | 4331       |
| FREQUENCY ERROR vs. Temp.   |            |             |            |            |
| 3.85                        | 50         | 1732.6      | 0          | 4331       |
| 3.85                        | 40         | 1732.600002 | 2          | 4331       |
| 3.85                        | 30         | 1732.599992 | -8         | 4331       |
| 3.85                        | 20         | 1732.599999 | -1         | 4331       |
| 3.85                        | 10         | 1732.599998 | -2         | 4331       |
| 3.85                        | 0          | 1732.600001 | 1          | 4331       |
| 3.85                        | -10        | 1732.599999 | -1         | 4331       |
| 3.85                        | -20        | 1732.600002 | 2          | 4331       |
| 3.85                        | -30        | 1732.599991 | -9         | 4331       |

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|                             |            |             |            |            |
|-----------------------------|------------|-------------|------------|------------|
| WCDMA V Mid Channel         |            |             | 836.6      | MHz        |
| Limit: +/- 2.5 ppm          |            |             |            |            |
| Vdc                         | Temp. (°C) | Freq. (MHz) | Delta (Hz) | Limit (Hz) |
| FREQUENCY ERROR vs. VOLTAGE |            |             |            |            |
| 4                           | 20         | 836.59999   | -10        | 2091       |
| 3.85                        | 20         | 836.599994  | -6         | 2091       |
| 3.7                         | 20         | 836.600009  | 9          | 2091       |
| 3.09 (End point)            | 20         | 836.599995  | -5         | 2091       |
| FREQUENCY ERROR vs. Temp.   |            |             |            |            |
| 3.85                        | 50         | 836.599999  | -1         | 2091       |
| 3.85                        | 40         | 836.599998  | -2         | 2091       |
| 3.85                        | 30         | 836.600002  | 2          | 2091       |
| 3.85                        | 20         | 836.599995  | -5         | 2091       |
| 3.85                        | 10         | 836.599992  | -8         | 2091       |
| 3.85                        | 0          | 836.599991  | -9         | 2091       |
| 3.85                        | -10        | 836.600004  | 4          | 2091       |
| 3.85                        | -20        | 836.600005  | 5          | 2091       |
| 3.85                        | -30        | 836.600002  | 2          | 2091       |

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| Reference Freq.: LTE B2 Mid Channel 1880 MHz 20M QPSK CH 18900 |            |             |            |                          |
|----------------------------------------------------------------|------------|-------------|------------|--------------------------|
| Power Supply Vdc                                               | Temp. (°C) | Freq. (MHz) | Delta (Hz) | Limit = +/- 2.5 ppm (Hz) |
| Freq. ERROR vs. VOLTAGE                                        |            |             |            |                          |
| 4                                                              | 25         | 1879.999990 | -10        | 4700                     |
| 3.85                                                           | 25         | 1880.000005 | 5          | 4700                     |
| 3.7                                                            | 25         | 1880.000005 | 5          | 4700                     |
| 3.1<br>(End Point)                                             | 25         | 1880.000005 | 5          | 4700                     |
| Freq. ERROR vs. Temp.                                          |            |             |            |                          |
| 3.85                                                           | -30        | 1880.000005 | 5          | 4700                     |
| 3.85                                                           | -20        | 1880.000007 | 7          | 4700                     |
| 3.85                                                           | -10        | 1879.999996 | -4         | 4700                     |
| 3.85                                                           | 0          | 1880.000001 | 1          | 4700                     |
| 3.85                                                           | 10         | 1880.000000 | 0          | 4700                     |
| 3.85                                                           | 20         | 1880.000009 | 9          | 4700                     |
| 3.85                                                           | 30         | 1880.000003 | 3          | 4700                     |
| 3.85                                                           | 40         | 1880.000000 | 0          | 4700                     |
| 3.85                                                           | 50         | 1879.999996 | -4         | 4700                     |

| Reference Freq.: LTE B4 Mid Channel 1732.5 MHz 20M QPSK CH 20175 |            |             |            |                          |
|------------------------------------------------------------------|------------|-------------|------------|--------------------------|
| Power Supply Vdc                                                 | Temp. (°C) | Freq. (MHz) | Delta (Hz) | Limit = +/- 2.5 ppm (Hz) |
| Freq. ERROR vs. VOLTAGE                                          |            |             |            |                          |
| 4                                                                | 25         | 1732.500008 | 8          | 4331                     |
| 3.85                                                             | 25         | 1732.500009 | 9          | 4331                     |
| 3.7                                                              | 25         | 1732.499999 | -1         | 4331                     |
| 3.1<br>(End Point)                                               | 25         | 1732.499994 | -6         | 4331                     |
| Freq. ERROR vs. Temp.                                            |            |             |            |                          |
| 3.85                                                             | -30        | 1732.499992 | -8         | 4331                     |
| 3.85                                                             | -20        | 1732.500004 | 4          | 4331                     |
| 3.85                                                             | -10        | 1732.500008 | 8          | 4331                     |
| 3.85                                                             | 0          | 1732.500009 | 9          | 4331                     |
| 3.85                                                             | 10         | 1732.499999 | -1         | 4331                     |
| 3.85                                                             | 20         | 1732.499996 | -4         | 4331                     |
| 3.85                                                             | 30         | 1732.500006 | 6          | 4331                     |
| 3.85                                                             | 40         | 1732.500004 | 4          | 4331                     |
| 3.85                                                             | 50         | 1732.499993 | -7         | 4331                     |

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|                         |            |                    |            |                          |                       |
|-------------------------|------------|--------------------|------------|--------------------------|-----------------------|
| Reference Freq.:        |            | LTE B5 Mid Channel |            | 836.5                    | MHz 10M QPSK CH 20525 |
| Power Supply Vdc        | Temp. (°C) | Freq. (MHz)        | Delta (Hz) | Limit = +/- 2.5 ppm (Hz) |                       |
| Freq. ERROR vs. VOLTAGE |            |                    |            |                          |                       |
| 4                       | 25         | 836.500003         | 3          | 2091                     |                       |
| 3.85                    | 25         | 836.500003         | 3          | 2091                     |                       |
| 3.7                     | 25         | 836.500006         | 6          | 2091                     |                       |
| 3.1<br>(End Point)      | 25         | 836.500003         | 3          | 2091                     |                       |
| Freq. ERROR vs. Temp.   |            |                    |            |                          |                       |
| 3.85                    | -30        | 836.499999         | -1         | 2091                     |                       |
| 3.85                    | -20        | 836.500009         | 9          | 2091                     |                       |
| 3.85                    | -10        | 836.500002         | 2          | 2091                     |                       |
| 3.85                    | 0          | 836.499994         | -6         | 2091                     |                       |
| 3.85                    | 10         | 836.500006         | 6          | 2091                     |                       |
| 3.85                    | 20         | 836.500003         | 3          | 2091                     |                       |
| 3.85                    | 30         | 836.499992         | -8         | 2091                     |                       |
| 3.85                    | 40         | 836.500007         | 7          | 2091                     |                       |
| 3.85                    | 50         | 836.499995         | -5         | 2091                     |                       |

| Reference Freq.:        | LTE B7 Mid |             | 2535       | MHz 10M QPSK CH 21100    |
|-------------------------|------------|-------------|------------|--------------------------|
|                         | Channel    |             |            |                          |
| Power Supply Vdc        | Temp. (°C) | Freq. (MHz) | Delta (Hz) | Limit = +/- 2.5 ppm (Hz) |
| Freq. ERROR vs. VOLTAGE |            |             |            |                          |
| 4                       | 25         | 2535.000006 | 6          | 6338                     |
| 3.85                    | 25         | 2534.999997 | -3         | 6338                     |
| 3.7                     | 25         | 2534.999993 | -7         | 6338                     |
| 3.1                     | 25         | 2535.000007 | 7          | 6338                     |
| (End Point)             |            |             |            |                          |
| Freq. ERROR vs. Temp.   |            |             |            |                          |
| 3.85                    | -30        | 2535.000009 | 9          | 6338                     |
| 3.85                    | -20        | 2534.999996 | -4         | 6338                     |
| 3.85                    | -10        | 2535.000000 | 0          | 6338                     |
| 3.85                    | 0          | 2534.999995 | -5         | 6338                     |
| 3.85                    | 10         | 2535.000005 | 5          | 6338                     |
| 3.85                    | 20         | 2535.000008 | 8          | 6338                     |
| 3.85                    | 30         | 2535.000008 | 8          | 6338                     |
| 3.85                    | 40         | 2535.000007 | 7          | 6338                     |
| 3.85                    | 50         | 2534.999998 | -2         | 6338                     |

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| Reference Freq.: LTE B12 Mid Channel 707.5 MHz 10M QPSK CH 23095 |            |             |            |                          |
|------------------------------------------------------------------|------------|-------------|------------|--------------------------|
| Power Supply Vdc                                                 | Temp. (°C) | Freq. (MHz) | Delta (Hz) | Limit = +/- 2.5 ppm (Hz) |
| Freq. ERROR vs. VOLTAGE                                          |            |             |            |                          |
| 4                                                                | 25         | 707.499996  | -4         | 1769                     |
| 3.85                                                             | 25         | 707.499996  | -4         | 1769                     |
| 3.7                                                              | 25         | 707.500007  | 7          | 1769                     |
| 3.1<br>(End Point)                                               | 25         | 707.499998  | -2         | 1769                     |
| Freq. ERROR vs. Temp.                                            |            |             |            |                          |
| 3.85                                                             | -30        | 707.500007  | 7          | 1769                     |
| 3.85                                                             | -20        | 707.500006  | 6          | 1769                     |
| 3.85                                                             | -10        | 707.499992  | -8         | 1769                     |
| 3.85                                                             | 0          | 707.500008  | 8          | 1769                     |
| 3.85                                                             | 10         | 707.500006  | 6          | 1769                     |
| 3.85                                                             | 20         | 707.499997  | -3         | 1769                     |
| 3.85                                                             | 30         | 707.499996  | -4         | 1769                     |
| 3.85                                                             | 40         | 707.500007  | 7          | 1769                     |
| 3.85                                                             | 50         | 707.500009  | 9          | 1769                     |

| Reference Freq.: LTE B13 Mid Channel 782 MHz 10M QPSK CH 23230 |            |             |            |                          |
|----------------------------------------------------------------|------------|-------------|------------|--------------------------|
| Power Supply Vdc                                               | Temp. (°C) | Freq. (MHz) | Delta (Hz) | Limit = +/- 2.5 ppm (Hz) |
| Freq. ERROR vs. VOLTAGE                                        |            |             |            |                          |
| 4                                                              | 25         | 781.999997  | -3         | 1955                     |
| 3.85                                                           | 25         | 782.000005  | 5          | 1955                     |
| 3.7                                                            | 25         | 781.999992  | -8         | 1955                     |
| 3.1<br>(End Point)                                             | 25         | 781.999994  | -6         | 1955                     |
| Freq. ERROR vs. Temp.                                          |            |             |            |                          |
| 3.85                                                           | -30        | 782.000006  | 6          | 1955                     |
| 3.85                                                           | -20        | 782.000004  | 4          | 1955                     |
| 3.85                                                           | -10        | 782.000000  | 0          | 1955                     |
| 3.85                                                           | 0          | 782.000001  | 1          | 1955                     |
| 3.85                                                           | 10         | 781.999996  | -4         | 1955                     |
| 3.85                                                           | 20         | 781.999998  | -2         | 1955                     |
| 3.85                                                           | 30         | 782.000002  | 2          | 1955                     |
| 3.85                                                           | 40         | 781.999994  | -6         | 1955                     |
| 3.85                                                           | 50         | 781.999999  | -1         | 1955                     |

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|                         |            |                     |            |                          |                   |
|-------------------------|------------|---------------------|------------|--------------------------|-------------------|
| Reference Freq.:        |            | LTE B17 Mid Channel |            | 710 MHz                  | 10M QPSK CH 23790 |
| Power Supply Vdc        | Temp. (°C) | Freq. (MHz)         | Delta (Hz) | Limit = +/- 2.5 ppm (Hz) |                   |
| Freq. ERROR vs. VOLTAGE |            |                     |            |                          |                   |
| 4                       | 25         | 710.000005          | 5          | 1775                     |                   |
| 3.85                    | 25         | 709.999993          | -7         | 1775                     |                   |
| 3.7                     | 25         | 709.999994          | -6         | 1775                     |                   |
| 3.1<br>(End Point)      | 25         | 710.000005          | 5          | 1775                     |                   |
| Freq. ERROR vs. Temp.   |            |                     |            |                          |                   |
| 3.85                    | -30        | 709.999996          | -4         | 1775                     |                   |
| 3.85                    | -20        | 709.999997          | -3         | 1775                     |                   |
| 3.85                    | -10        | 709.999997          | -3         | 1775                     |                   |
| 3.85                    | 0          | 709.999992          | -8         | 1775                     |                   |
| 3.85                    | 10         | 710.000009          | 9          | 1775                     |                   |
| 3.85                    | 20         | 709.999994          | -6         | 1775                     |                   |
| 3.85                    | 30         | 710.000001          | 1          | 1775                     |                   |
| 3.85                    | 40         | 709.999996          | -4         | 1775                     |                   |
| 3.85                    | 50         | 709.999999          | -1         | 1775                     |                   |

|                         |            |                     |            |                          |                   |
|-------------------------|------------|---------------------|------------|--------------------------|-------------------|
| Reference Freq.:        |            | LTE B38 Mid Channel |            | 2595 MHz                 | 10M QPSK CH 38000 |
| Power Supply Vdc        | Temp. (°C) | Freq. (MHz)         | Delta (Hz) | Limit = +/- 2.5 ppm (Hz) |                   |
| Freq. ERROR vs. VOLTAGE |            |                     |            |                          |                   |
| 4                       | 25         | 2595.000009         | 9          | 6488                     |                   |
| 3.85                    | 25         | 2595.000008         | 8          | 6488                     |                   |
| 3.7                     | 25         | 2594.999990         | -10        | 6488                     |                   |
| 3.1<br>(End Point)      | 25         | 2594.999999         | -1         | 6488                     |                   |
| Freq. ERROR vs. Temp.   |            |                     |            |                          |                   |
| 3.85                    | -30        | 2594.999994         | -6         | 6488                     |                   |
| 3.85                    | -20        | 2595.000009         | 9          | 6488                     |                   |
| 3.85                    | -10        | 2594.999992         | -8         | 6488                     |                   |
| 3.85                    | 0          | 2595.000009         | 9          | 6488                     |                   |
| 3.85                    | 10         | 2595.000003         | 3          | 6488                     |                   |
| 3.85                    | 20         | 2594.999994         | -6         | 6488                     |                   |
| 3.85                    | 30         | 2595.000002         | 2          | 6488                     |                   |
| 3.85                    | 40         | 2594.999996         | -4         | 6488                     |                   |
| 3.85                    | 50         | 2594.999994         | -6         | 6488                     |                   |

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|                         |            |                     |            |                          |                   |
|-------------------------|------------|---------------------|------------|--------------------------|-------------------|
| Reference Freq.:        |            | LTE B41 Mid Channel |            | 2593 MHz                 | 10M QPSK CH 40620 |
| Power Supply Vdc        | Temp. (°C) | Freq. (MHz)         | Delta (Hz) | Limit = +/- 2.5 ppm (Hz) |                   |
| Freq. ERROR vs. VOLTAGE |            |                     |            |                          |                   |
| 4                       | 25         | 2593.000006         | 6          | 6488                     |                   |
| 3.85                    | 25         | 2592.999998         | -2         | 6488                     |                   |
| 3.7                     | 25         | 2592.999992         | -8         | 6488                     |                   |
| 3.1<br>(End Point)      | 25         | 2592.999998         | -2         | 6488                     |                   |
| Freq. ERROR vs. Temp.   |            |                     |            |                          |                   |
| 3.85                    | -30        | 2592.999994         | -6         | 6488                     |                   |
| 3.85                    | -20        | 2592.999995         | -5         | 6488                     |                   |
| 3.85                    | -10        | 2593.000007         | 7          | 6488                     |                   |
| 3.85                    | 0          | 2593.000004         | 4          | 6488                     |                   |
| 3.85                    | 10         | 2593.000005         | 5          | 6488                     |                   |
| 3.85                    | 20         | 2592.999995         | -5         | 6488                     |                   |
| 3.85                    | 30         | 2592.999990         | -10        | 6488                     |                   |
| 3.85                    | 40         | 2592.999995         | -5         | 6488                     |                   |
| 3.85                    | 50         | 2593.000009         | 9          | 6488                     |                   |

**Note: The battery is rated 3.85Vdc.**

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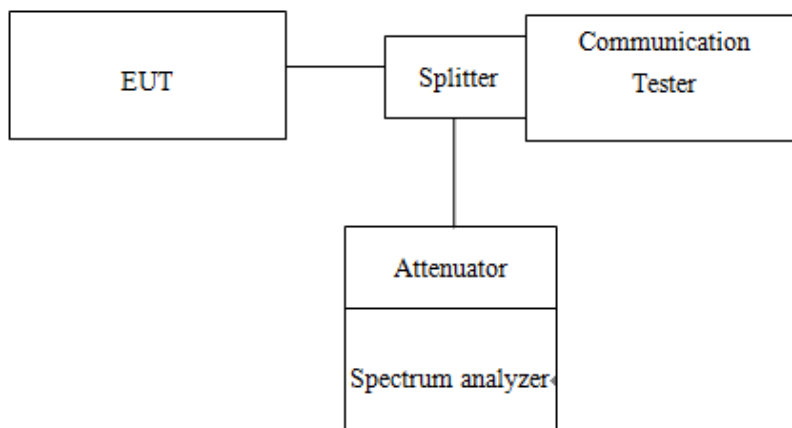
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## 11. PEAK TO AVERAGE RATIO

### 11.1. Standard Applicable

The peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

### 11.2. Test SET-UP



### 11.3. Measurement Procedure

1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
2. Set resolution/measurement bandwidth  $\geq$  signal's occupied bandwidth; & internal = 1ms
3. Set the number of counts to a value that stabilizes the measured CCDF curve.

### 11.4. Measurement Equipment Used

| EQUIPMENT TYPE               | MFR           | MODEL NUMBER | SERIAL NUMBER  | LAST CAL.  | CAL DUE.   |
|------------------------------|---------------|--------------|----------------|------------|------------|
| Radio Communication Analyzer | Anritsu       | MT8820C      | 6200995019     | 04/01/2019 | 03/31/2020 |
| DC Power Supply              | Agilent       | E3640A       | MY52410006     | 12/10/2019 | 12/09/2020 |
| Temperature Chamber          | TERCHY        | MHG-120LF    | 911009         | 05/17/2019 | 05/16/2020 |
| EXA Spectrum Analyzer        | KEYSIGHT      | N9010A       | MY57120290     | 02/13/2019 | 02/12/2020 |
| Attenuator                   | Mini-Circuit  | BW-S10W2+    | 2              | 01/02/2020 | 01/01/2021 |
| DC Block                     | Mini-Circuits | BLK-18-S+    | 1              | 01/02/2020 | 01/01/2021 |
| Splitter                     | RF-LAMBAD     | RFLT2W1G18G  | 11-JSPF412-018 | 01/02/2020 | 01/01/2021 |

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## 11.5. Measurement Result

### Tabular Results:

| Freq.<br>(MHz) | CH  | Peak-to-Average Ratio<br>(dB) |             |
|----------------|-----|-------------------------------|-------------|
|                |     | GSM<br>850                    | GPRS<br>850 |
| 824.2          | 128 | 8.25                          | 10.1        |
| 836.6          | 190 | 9.87                          | 10.45       |
| 848.8          | 251 | 9.81                          | 9.51        |

| Freq.<br>(MHz) | CH  | Peak-to-Average Ratio<br>(dB) |              |
|----------------|-----|-------------------------------|--------------|
|                |     | GSM<br>1900                   | GPRS<br>1900 |
| 1850.2         | 512 | 9.71                          | 8.98         |
| 1880           | 661 | 9.17                          | 9.71         |
| 1909.8         | 810 | 8.01                          | 9.51         |

| Freq.<br>(MHz) | CH   | Peak-to-Average Ratio (dB) |             |             |
|----------------|------|----------------------------|-------------|-------------|
|                |      | WCDMA<br>II                | HSDPA<br>II | HSUPA<br>II |
| 1852.4         | 9262 | 2.80                       | 3.57        | 3.98        |
| 1880           | 9400 | 2.80                       | 4.21        | 3.88        |
| 1907.6         | 9538 | 2.88                       | 3.48        | 3.74        |

| Freq.<br>(MHz) | CH   | Peak-to-Average Ratio (dB) |             |             |
|----------------|------|----------------------------|-------------|-------------|
|                |      | WCDMA<br>IV                | HSDPA<br>IV | HSUPA<br>IV |
| 1712.4         | 1312 | 2.91                       | 3.59        | 3.86        |
| 1732.6         | 1413 | 2.84                       | 3.79        | 3.80        |
| 1752.6         | 1513 | 2.83                       | 3.60        | 3.99        |

| Freq.<br>(MHz) | CH   | Peak-to-Average Ratio (dB) |            |            |
|----------------|------|----------------------------|------------|------------|
|                |      | WCDMA<br>V                 | HSDPA<br>V | HSUPA<br>V |
| 826.4          | 4132 | 2.95                       | 3.69       | 4.11       |
| 836.6          | 4183 | 2.90                       | 3.49       | 3.58       |
| 846.6          | 4233 | 2.87                       | 3.98       | 3.90       |

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| LTE BAND 2                |       |           |       |                         |       |           |       |
|---------------------------|-------|-----------|-------|-------------------------|-------|-----------|-------|
| Channel bandwidth: 1.4MHz |       |           |       | Channel bandwidth: 3MHz |       |           |       |
| Freq.<br>(MHz)            | CH    | PAPR (dB) |       | Freq.<br>(MHz)          | CH    | PAPR (dB) |       |
|                           |       | 64QAM     | Limit |                         |       | 64QAM     | Limit |
| 1850.7                    | 18607 | 6.38      | 13    | 1851.5                  | 18615 | 6.36      | 13    |
| 1880.0                    | 18900 | 6.44      | 13    | 1880.0                  | 18900 | 6.24      | 13    |
| 1909.3                    | 19193 | 6.34      | 13    | 1908.5                  | 19185 | 6.47      | 13    |

| LTE BAND 2              |       |           |       |                          |       |           |       |
|-------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|
| Channel bandwidth: 5MHz |       |           |       | Channel bandwidth: 10MHz |       |           |       |
| Freq.<br>(MHz)          | CH    | PAPR (dB) |       | Freq.<br>(MHz)           | CH    | PAPR (dB) |       |
|                         |       | 64QAM     | Limit |                          |       | 64QAM     | Limit |
| 1852.5                  | 18625 | 6.25      | 13    | 1855.0                   | 18650 | 6.32      | 13    |
| 1880.0                  | 18900 | 6.31      | 13    | 1880.0                   | 18900 | 6.32      | 13    |
| 1907.5                  | 19175 | 6.29      | 13    | 1905.0                   | 19150 | 6.46      | 13    |

| LTE BAND 2               |       |           |       |                          |       |           |       |
|--------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|
| Channel bandwidth: 15MHz |       |           |       | Channel bandwidth: 20MHz |       |           |       |
| Freq.<br>(MHz)           | CH    | PAPR (dB) |       | Freq.<br>(MHz)           | CH    | PAPR (dB) |       |
|                          |       | 64QAM     | Limit |                          |       | 64QAM     | Limit |
| 1857.5                   | 18675 | 6.28      | 13    | 1860.0                   | 18700 | 6.34      | 13    |
| 1880.0                   | 18900 | 6.49      | 13    | 1880.0                   | 18900 | 6.40      | 13    |
| 1902.5                   | 19125 | 6.38      | 13    | 1900.0                   | 19100 | 6.49      | 13    |

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| LTE BAND 4                |       |           |       |                         |       |           |       |
|---------------------------|-------|-----------|-------|-------------------------|-------|-----------|-------|
| Channel bandwidth: 1.4MHz |       |           |       | Channel bandwidth: 3MHz |       |           |       |
| Freq. (MHz)               | CH    | PAPR (dB) |       | Freq. (MHz)             | CH    | PAPR (dB) |       |
|                           |       | 64QAM     | Limit |                         |       | 64QAM     | Limit |
| 1710.7                    | 19957 | 6.64      | 13    | 1711.5                  | 19965 | 6.53      | 13    |
| 1732.5                    | 20175 | 6.56      | 13    | 1732.5                  | 20175 | 6.51      | 13    |
| 1754.3                    | 20393 | 6.36      | 13    | 1753.5                  | 20385 | 6.50      | 13    |

| LTE BAND 4              |       |           |       |                          |       |           |       |
|-------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|
| Channel bandwidth: 5MHz |       |           |       | Channel bandwidth: 10MHz |       |           |       |
| Freq. (MHz)             | CH    | PAPR (dB) |       | Freq. (MHz)              | CH    | PAPR (dB) |       |
|                         |       | 64QAM     | Limit |                          |       | 64QAM     | Limit |
| 1712.5                  | 19957 | 6.48      | 13    | 1715.0                   | 20000 | 6.45      | 13    |
| 1732.5                  | 20175 | 6.37      | 13    | 1732.5                   | 20175 | 6.35      | 13    |
| 1752.5                  | 20375 | 6.38      | 13    | 1750.0                   | 20350 | 6.36      | 13    |

| LTE BAND 4               |       |           |       |                          |       |           |       |
|--------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|
| Channel bandwidth: 15MHz |       |           |       | Channel bandwidth: 20MHz |       |           |       |
| Freq. (MHz)              | CH    | PAPR (dB) |       | Freq. (MHz)              | CH    | PAPR (dB) |       |
|                          |       | 64QAM     | Limit |                          |       | 64QAM     | Limit |
| 1717.5                   | 20025 | 6.45      | 13    | 1720.0                   | 20050 | 6.47      | 13    |
| 1732.5                   | 20175 | 6.47      | 13    | 1732.5                   | 20175 | 6.40      | 13    |
| 1747.5                   | 20325 | 6.36      | 13    | 1745.0                   | 20300 | 6.37      | 13    |

| LTE BAND 5                |       |           |       |                         |       |           |       |
|---------------------------|-------|-----------|-------|-------------------------|-------|-----------|-------|
| Channel bandwidth: 1.4MHz |       |           |       | Channel bandwidth: 3MHz |       |           |       |
| Freq. (MHz)               | CH    | PAPR (dB) |       | Freq. (MHz)             | CH    | PAPR (dB) |       |
|                           |       | 64QAM     | Limit |                         |       | 64QAM     | Limit |
| 824.7                     | 20407 | 6.76      | 13    | 825.5                   | 20415 | 6.51      | 13    |
| 836.5                     | 20525 | 6.80      | 13    | 836.5                   | 20525 | 6.53      | 13    |
| 848.3                     | 20643 | 6.68      | 13    | 847.5                   | 20635 | 6.52      | 13    |

| LTE BAND 5              |       |           |       |                          |       |           |       |
|-------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|
| Channel bandwidth: 5MHz |       |           |       | Channel bandwidth: 10MHz |       |           |       |
| Freq. (MHz)             | CH    | PAPR (dB) |       | Freq. (MHz)              | CH    | PAPR (dB) |       |
|                         |       | 64QAM     | Limit |                          |       | 64QAM     | Limit |
| 826.5                   | 20425 | 6.54      | 13    | 829.0                    | 20450 | 6.55      | 13    |
| 836.5                   | 20525 | 6.40      | 13    | 836.5                    | 20525 | 6.44      | 13    |
| 846.5                   | 20625 | 6.45      | 13    | 844.0                    | 20600 | 6.40      | 13    |

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| LTE BAND 7              |       |           |       |                          |       |           |       |
|-------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|
| Channel bandwidth: 5MHz |       |           |       | Channel bandwidth: 10MHz |       |           |       |
| Freq.<br>(MHz)          | CH    | PAPR (dB) |       | Freq.<br>(MHz)           | CH    | PAPR (dB) |       |
|                         |       | 64QAM     | Limit |                          |       | 64QAM     | Limit |
| 2502.5                  | 20775 | 6.60      | 13    | 2505.0                   | 20800 | 6.48      | 13    |
| 2535.0                  | 21100 | 6.56      | 13    | 2535.0                   | 21100 | 6.45      | 13    |
| 2567.5                  | 21375 | 6.52      | 13    | 2565.0                   | 21350 | 6.46      | 13    |

| LTE BAND 7               |       |           |       |                          |       |           |       |
|--------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|
| Channel bandwidth: 15MHz |       |           |       | Channel bandwidth: 20MHz |       |           |       |
| Freq.<br>(MHz)           | CH    | PAPR (dB) |       | Freq.<br>(MHz)           | CH    | PAPR (dB) |       |
|                          |       | 64QAM     | Limit |                          |       | 64QAM     | Limit |
| 2507.5                   | 20825 | 6.45      | 13    | 2510                     | 20850 | 6.51      | 13    |
| 2535.0                   | 21100 | 6.49      | 13    | 2535                     | 21100 | 6.46      | 13    |
| 2562.5                   | 21375 | 6.53      | 13    | 2560                     | 21350 | 6.54      | 13    |

| LTE BAND 12               |       |           |       |                         |       |           |       |
|---------------------------|-------|-----------|-------|-------------------------|-------|-----------|-------|
| Channel bandwidth: 1.4MHz |       |           |       | Channel bandwidth: 3MHz |       |           |       |
| Freq.<br>(MHz)            | CH    | PAPR (dB) |       | Freq.<br>(MHz)          | CH    | PAPR (dB) |       |
|                           |       | 64QAM     | Limit |                         |       | 64QAM     | Limit |
| 699.7                     | 23017 | 6.68      | 13    | 700.5                   | 23025 | 6.45      | 13    |
| 707.5                     | 23095 | 6.54      | 13    | 707.5                   | 23095 | 6.53      | 13    |
| 715.3                     | 23173 | 6.50      | 13    | 714.5                   | 23165 | 6.46      | 13    |

| LTE BAND 12             |       |           |       |                          |       |           |       |
|-------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|
| Channel bandwidth: 5MHz |       |           |       | Channel bandwidth: 10MHz |       |           |       |
| Freq.<br>(MHz)          | CH    | PAPR (dB) |       | Freq.<br>(MHz)           | CH    | PAPR (dB) |       |
|                         |       | 64QAM     | Limit |                          |       | 64QAM     | Limit |
| 701.5                   | 23035 | 6.50      | 13    | 704.0                    | 23060 | 6.52      | 13    |
| 707.5                   | 23095 | 6.43      | 13    | 707.5                    | 23095 | 6.29      | 13    |
| 713.5                   | 23155 | 6.39      | 13    | 711.0                    | 23130 | 6.31      | 13    |

| LTE BAND 13             |       |           |       |                          |       |           |       |
|-------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|
| Channel bandwidth: 5MHz |       |           |       | Channel bandwidth: 10MHz |       |           |       |
| Freq.<br>(MHz)          | CH    | PAPR (dB) |       | Freq.<br>(MHz)           | CH    | PAPR (dB) |       |
|                         |       | 64QAM     | Limit |                          |       | 64QAM     | Limit |
| 779.5                   | 23205 | 6.35      | 13    | 782.0                    | 23230 | 6.47      | 13    |
| 782.0                   | 23230 | 6.47      | 13    |                          |       |           |       |
| 784.5                   | 23255 | 6.74      | 13    |                          |       |           |       |

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| LTE BAND 17               |       |           |       |                         |       |           |       |
|---------------------------|-------|-----------|-------|-------------------------|-------|-----------|-------|
| Channel bandwidth: 1.4MHz |       |           |       | Channel bandwidth: 3MHz |       |           |       |
| Freq. (MHz)               | CH    | PAPR (dB) |       | Freq. (MHz)             | CH    | PAPR (dB) |       |
|                           |       | 64QAM     | Limit |                         |       | 64QAM     | Limit |
| 706.5                     | 23755 | 6.56      | 13    | 709.0                   | 23780 | 6.36      | 13    |
| 710.0                     | 23790 | 6.54      | 13    | 710.0                   | 23790 | 6.47      | 13    |
| 713.5                     | 23825 | 6.41      | 13    | 711.0                   | 23800 | 6.47      | 13    |

| LTE BAND 38             |       |           |       |                          |       |           |       |
|-------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|
| Channel bandwidth: 5MHz |       |           |       | Channel bandwidth: 10MHz |       |           |       |
| Freq. (MHz)             | CH    | PAPR (dB) |       | Freq. (MHz)              | CH    | PAPR (dB) |       |
|                         |       | 64QAM     | Limit |                          |       | 64QAM     | Limit |
| 2572.5                  | 37775 | 10.12     | 13    | 2575                     | 37800 | 11.00     | 13    |
| 2595.0                  | 38000 | 10.09     | 13    | 2595                     | 38000 | 9.31      | 13    |
| 2617.5                  | 38225 | 10.32     | 13    | 2615                     | 38200 | 10.38     | 13    |

| LTE BAND 38              |       |           |       |                          |       |           |       |
|--------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|
| Channel bandwidth: 15MHz |       |           |       | Channel bandwidth: 20MHz |       |           |       |
| Freq. (MHz)              | CH    | PAPR (dB) |       | Freq. (MHz)              | CH    | PAPR (dB) |       |
|                          |       | 64QAM     | Limit |                          |       | 64QAM     | Limit |
| 2577.5                   | 37825 | 10.88     | 13    | 2580.0                   | 37850 | 9.58      | 13    |
| 2595.0                   | 38000 | 7.18      | 13    | 2595.0                   | 38000 | 8.67      | 13    |
| 2612.5                   | 38175 | 9.64      | 13    | 2610.0                   | 38150 | 8.05      | 13    |

| LTE BAND 41             |       |           |       |                          |       |           |       |
|-------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|
| Channel bandwidth: 5MHz |       |           |       | Channel bandwidth: 10MHz |       |           |       |
| Freq. (MHz)             | CH    | PAPR (dB) |       | Freq. (MHz)              | CH    | PAPR (dB) |       |
|                         |       | 64QAM     | Limit |                          |       | 64QAM     | Limit |
| 2498.5                  | 39675 | 11.63     | 13    | 2501.0                   | 39700 | 10.55     | 13    |
| 2593.0                  | 40620 | 10.66     | 13    | 2593.0                   | 40620 | 11.18     | 13    |
| 2687.5                  | 41565 | 9.90      | 13    | 2685.0                   | 41540 | 7.88      | 13    |

| LTE BAND 41              |       |           |       |                          |       |           |       |
|--------------------------|-------|-----------|-------|--------------------------|-------|-----------|-------|
| Channel bandwidth: 15MHz |       |           |       | Channel bandwidth: 20MHz |       |           |       |
| Freq. (MHz)              | CH    | PAPR (dB) |       | Freq. (MHz)              | CH    | PAPR (dB) |       |
|                          |       | 64QAM     | Limit |                          |       | 64QAM     | Limit |
| 2503.5                   | 39725 | 7.46      | 13    | 2506.0                   | 39750 | 9.03      | 13    |
| 2593.0                   | 40620 | 11.76     | 13    | 2593.0                   | 40620 | 7.62      | 13    |
| 2682.5                   | 41515 | 10.01     | 13    | 2680.0                   | 41490 | 7.39      | 13    |

**Please refer to next page for test plots.**

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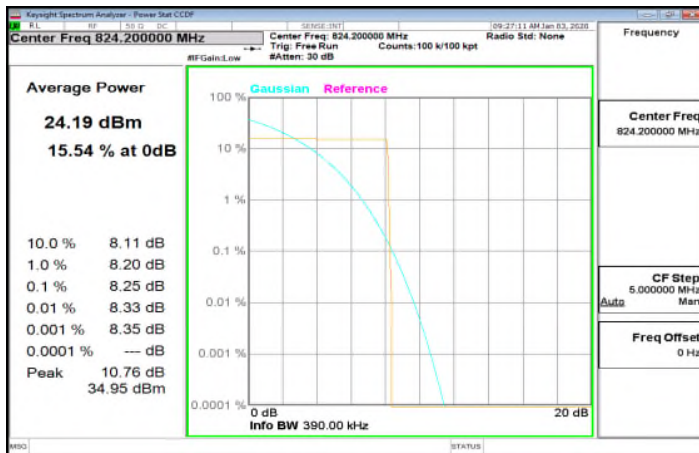
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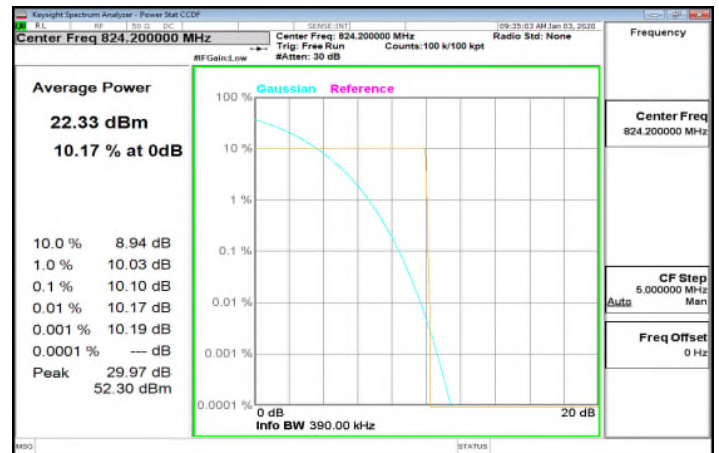
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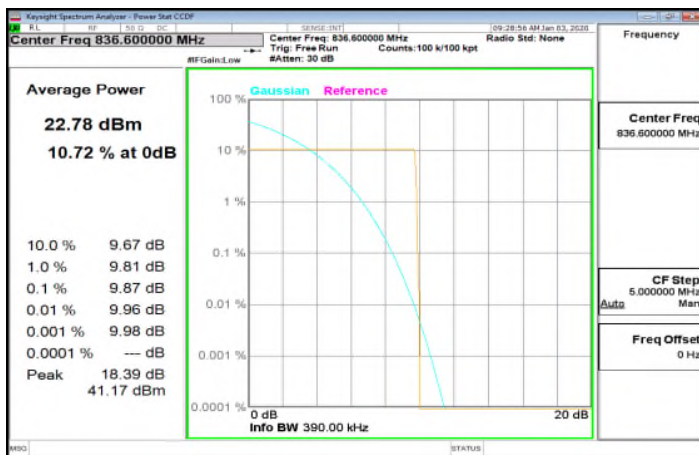
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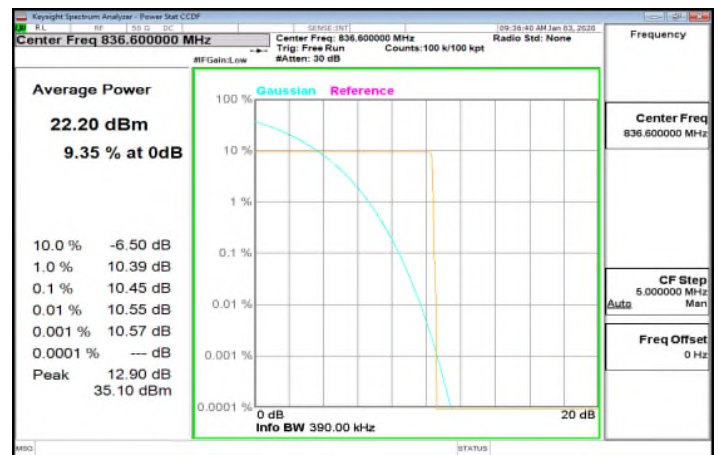
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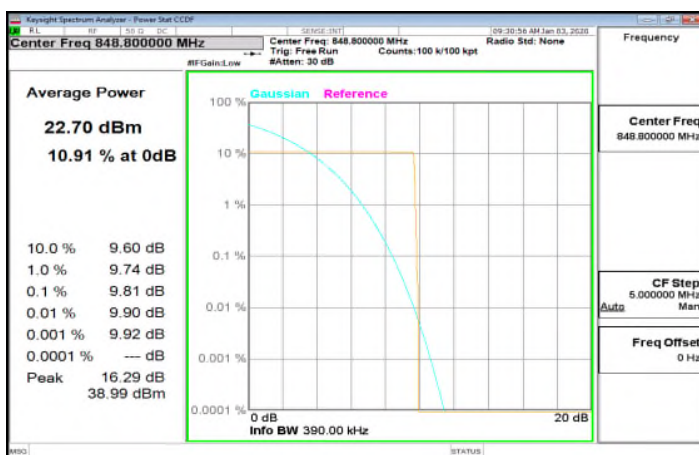
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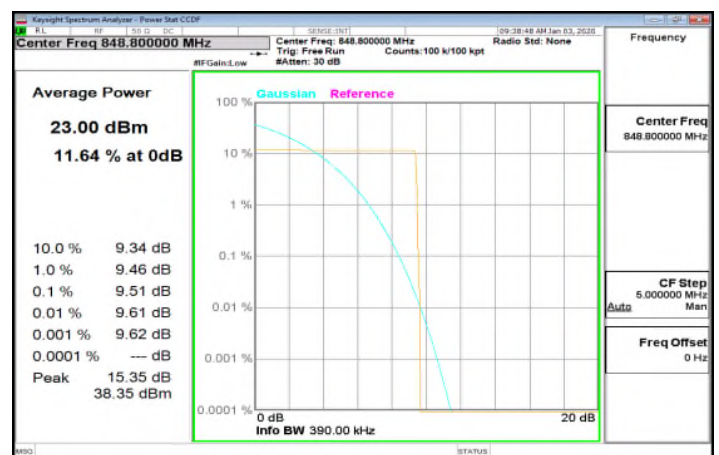
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GSM\_850MHz\_HighCH251-848.8



GPRS\_850MHz\_HighCH251-848.8



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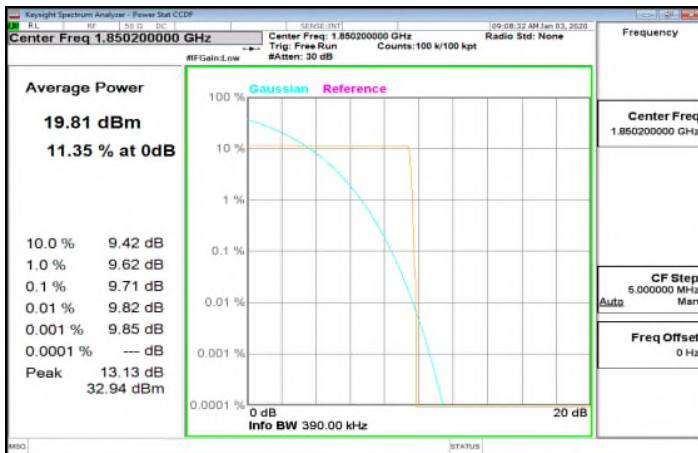
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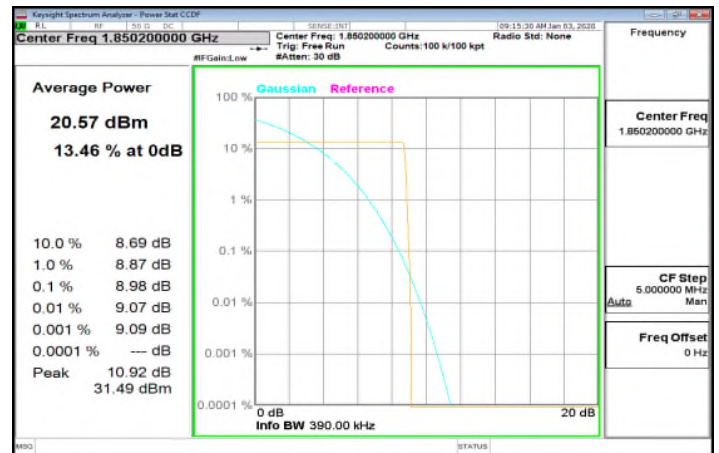
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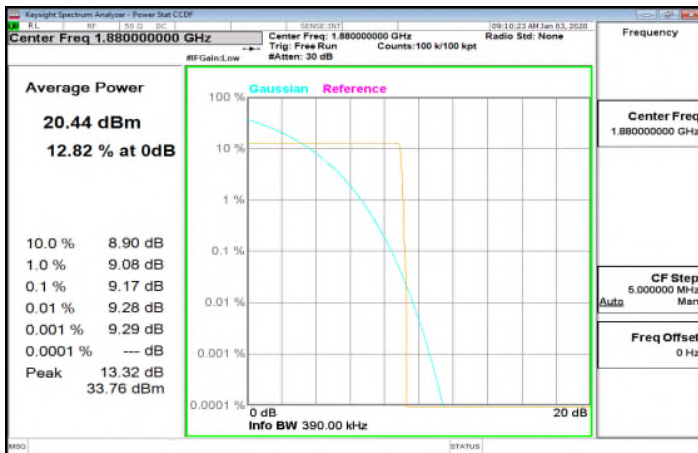
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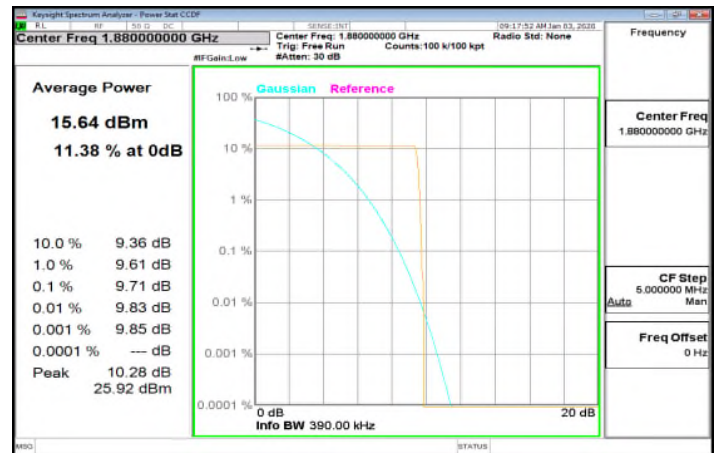
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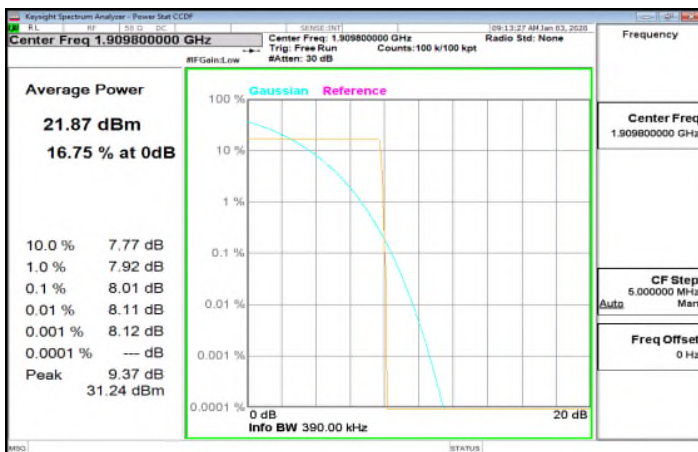
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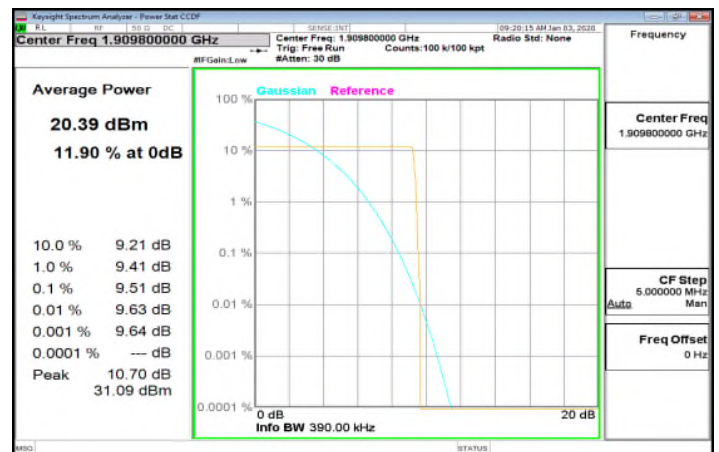
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GSM\_1900MHz\_HighCH810-1909.8



GPRS\_1900MHz\_HighCH810-1909.8



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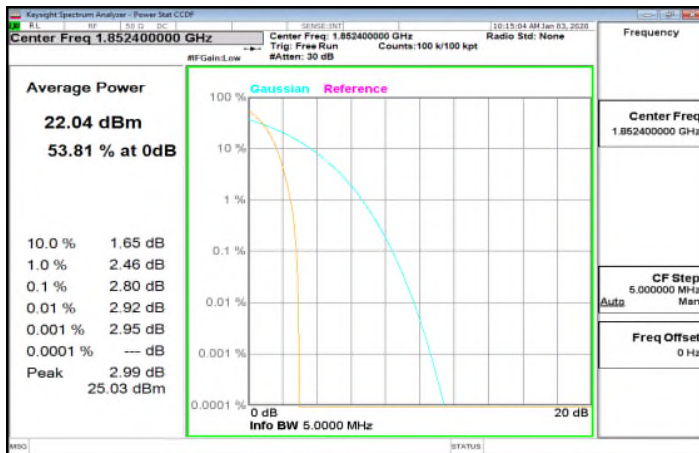
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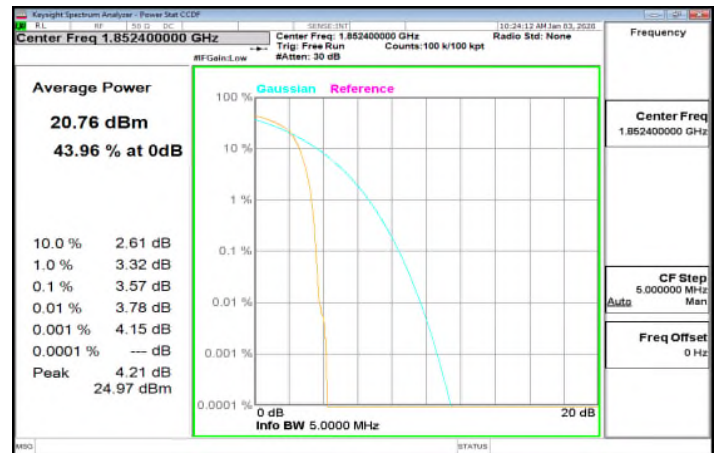
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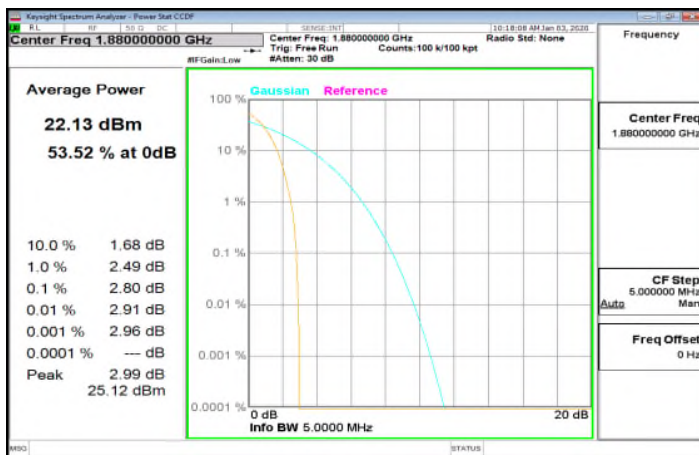
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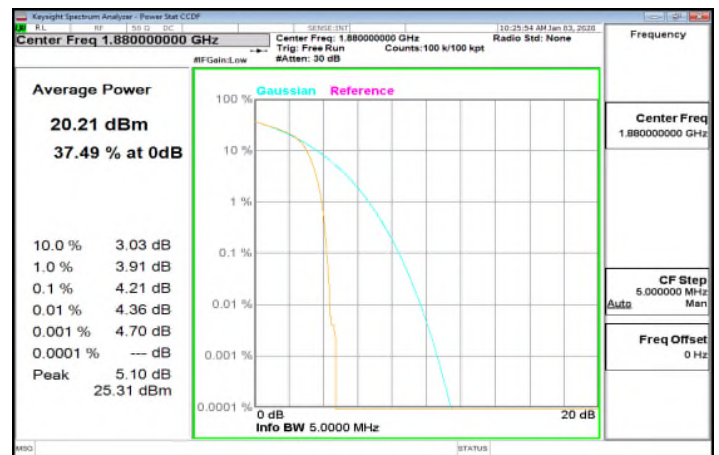
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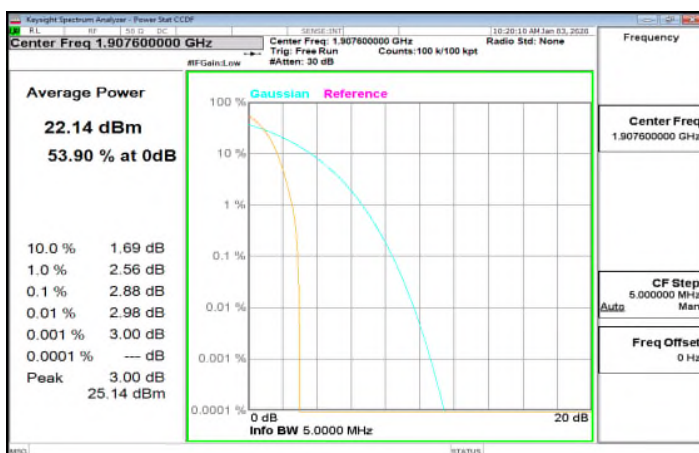
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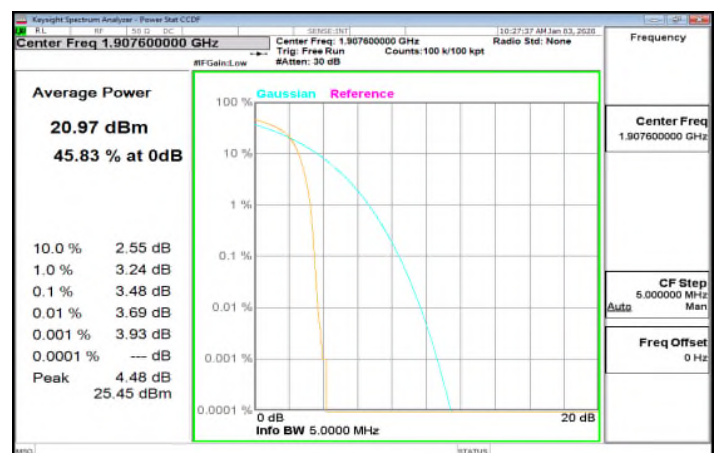
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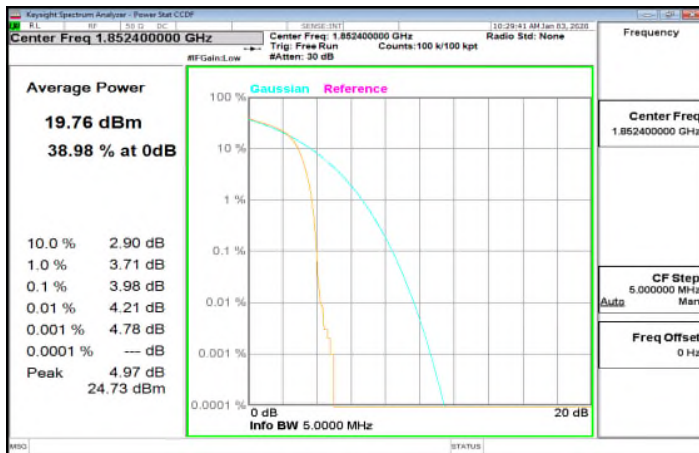
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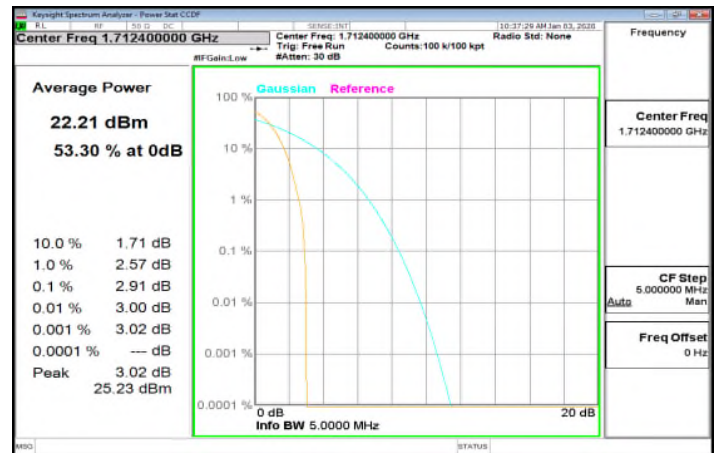
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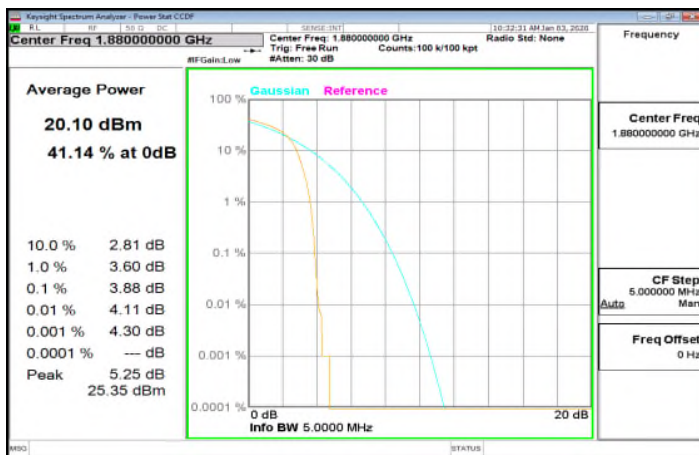
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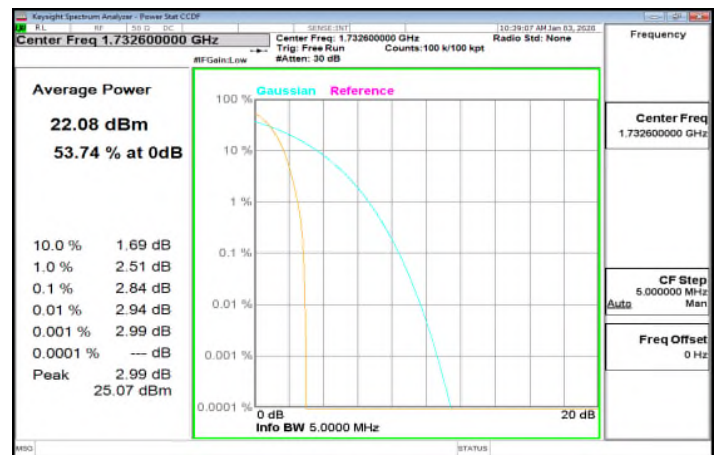
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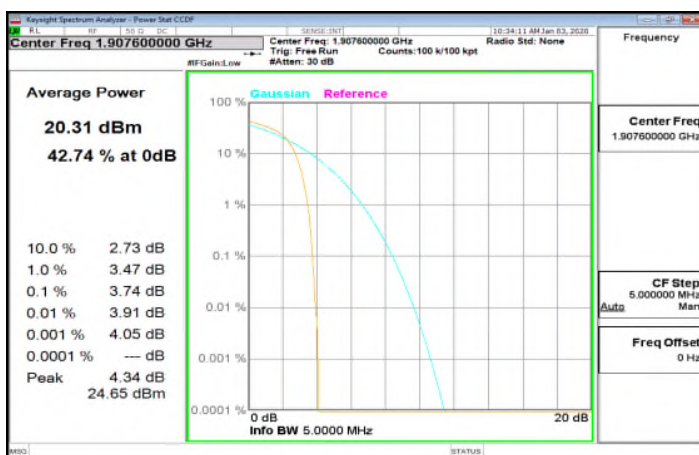
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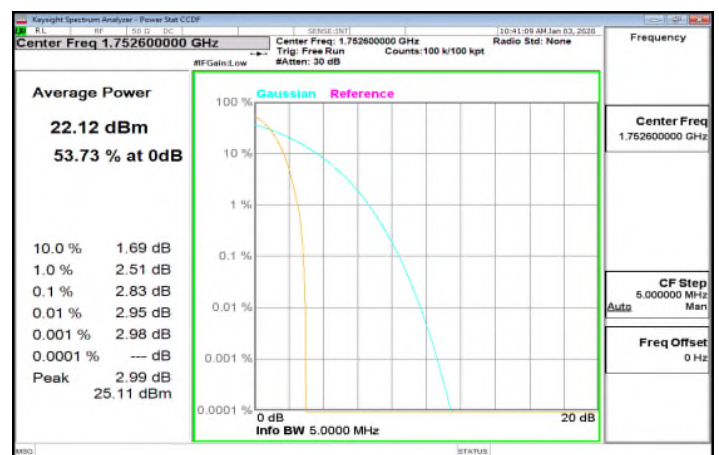
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HSUPA\_B2\_HighCH9538-1907.6



WCDMA\_B4\_HighCH1513-1752.6



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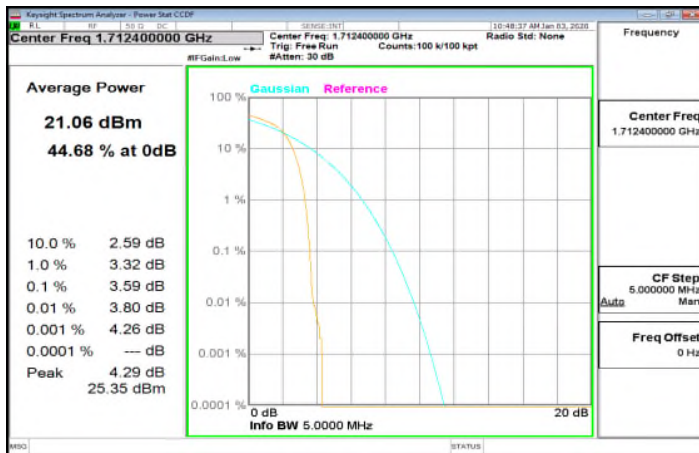
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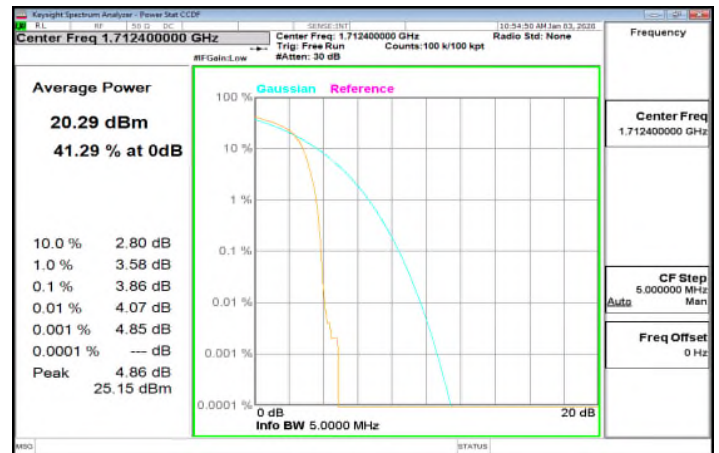
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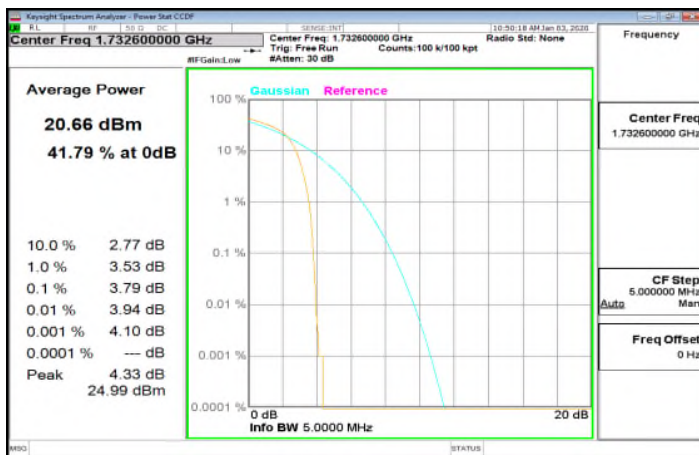
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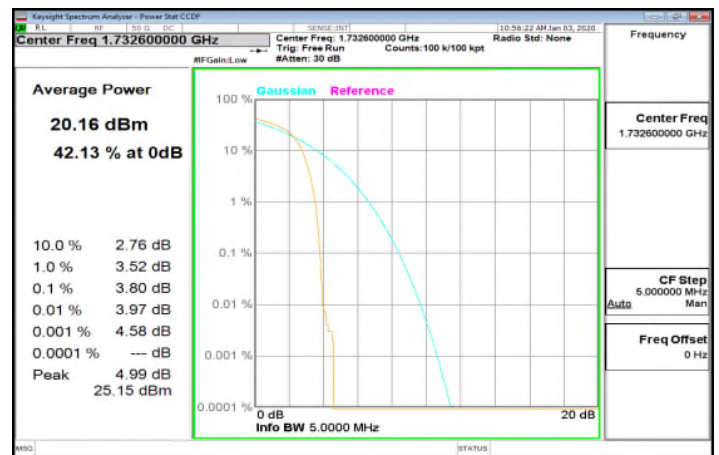
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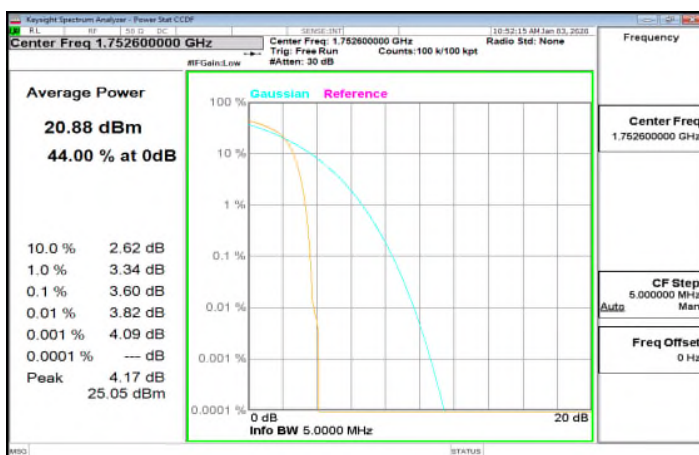
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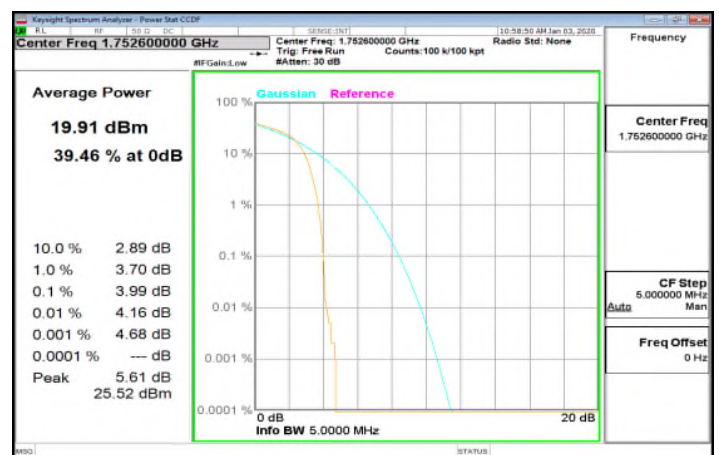
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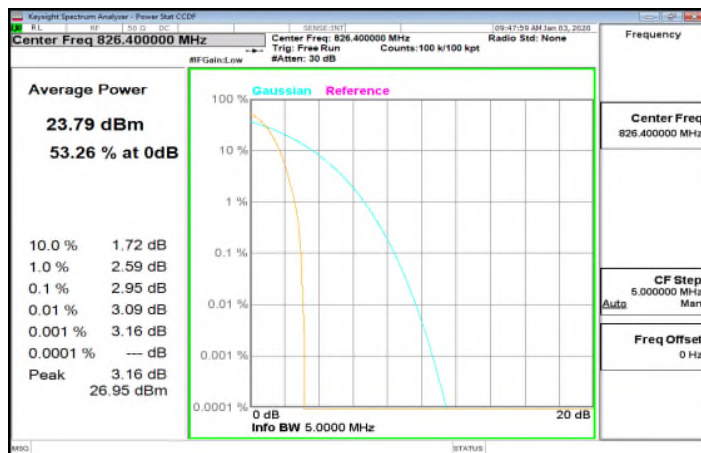
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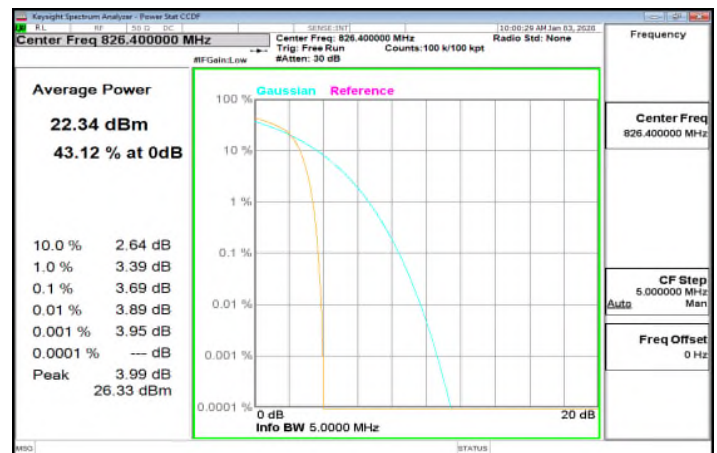
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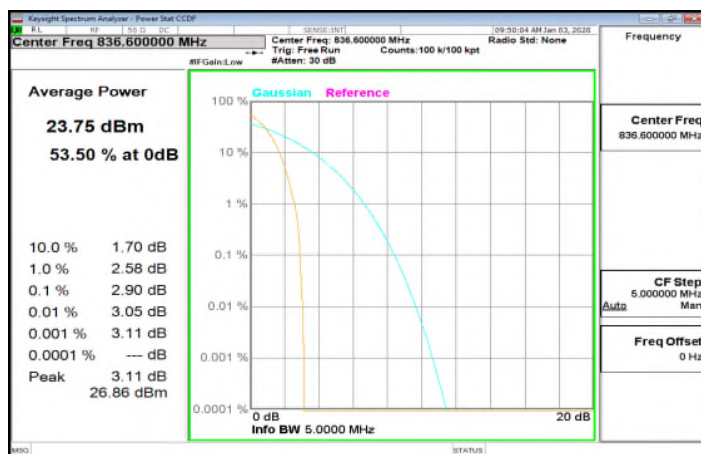
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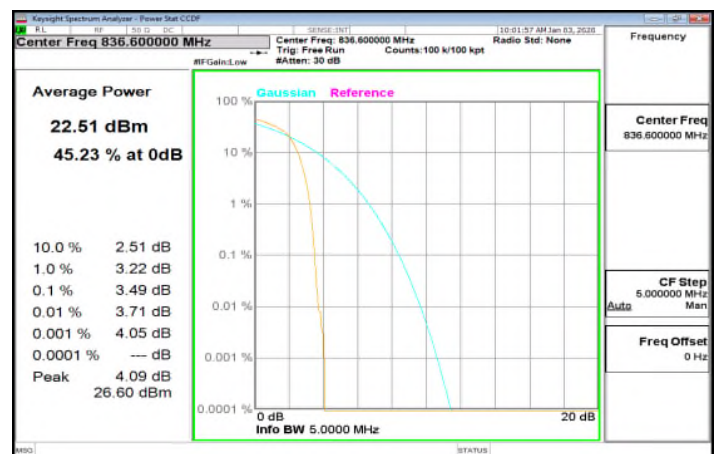
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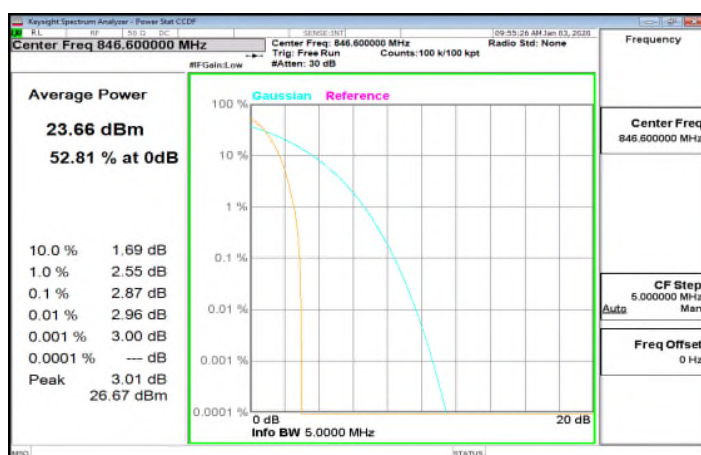
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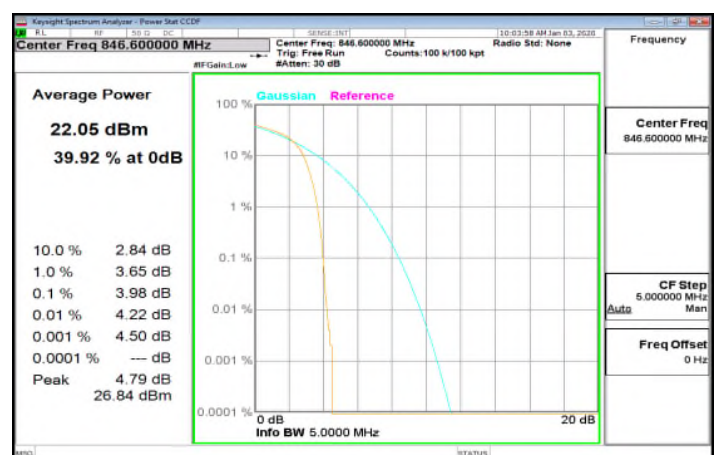
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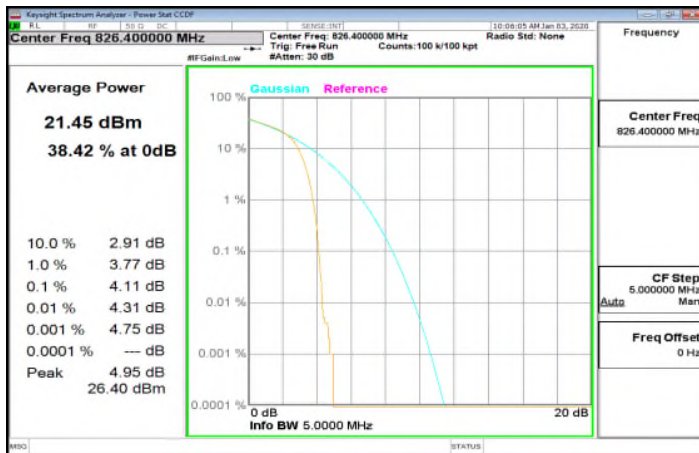
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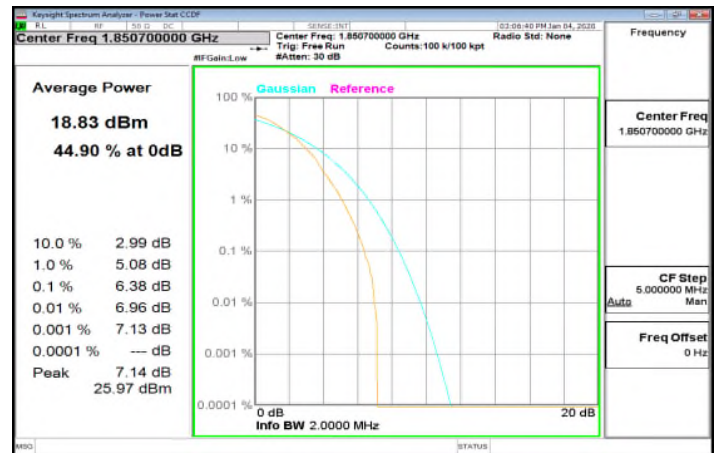
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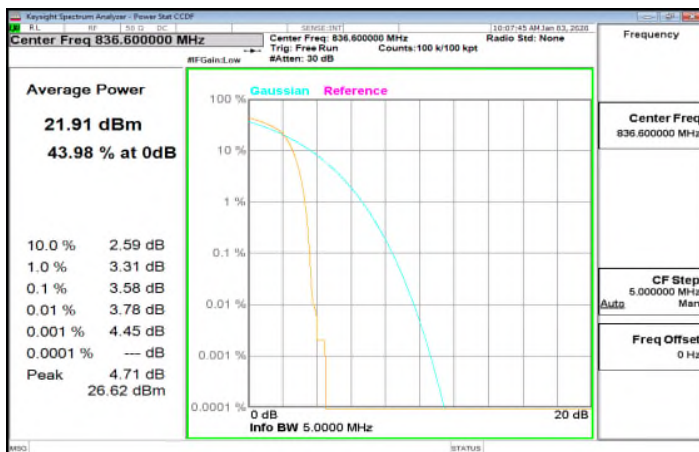
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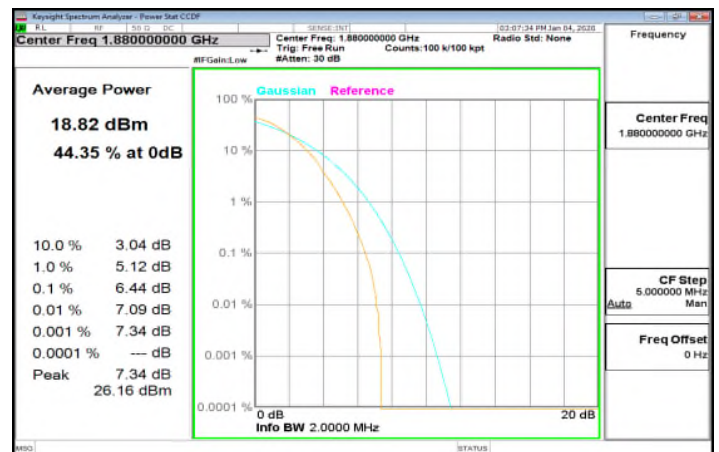
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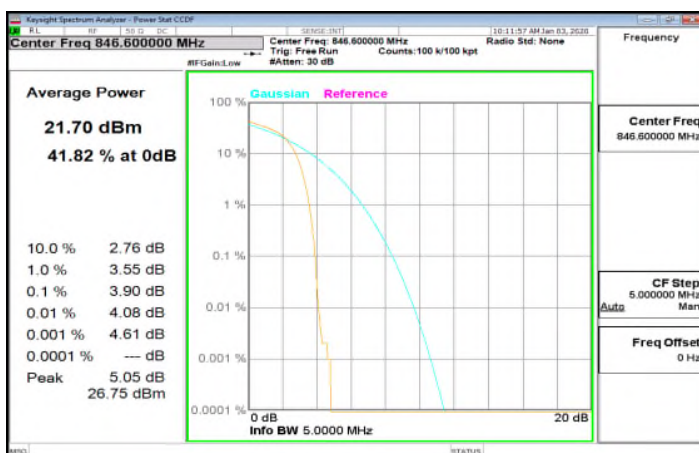
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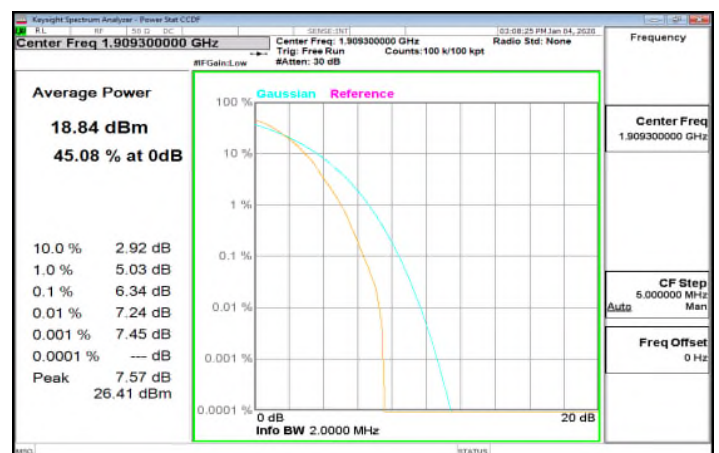
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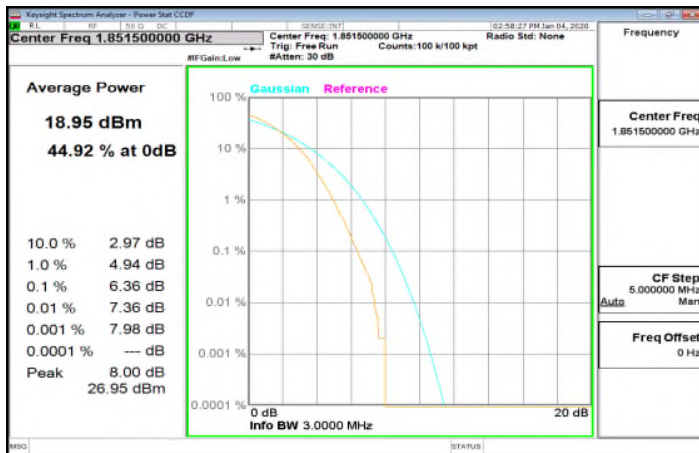
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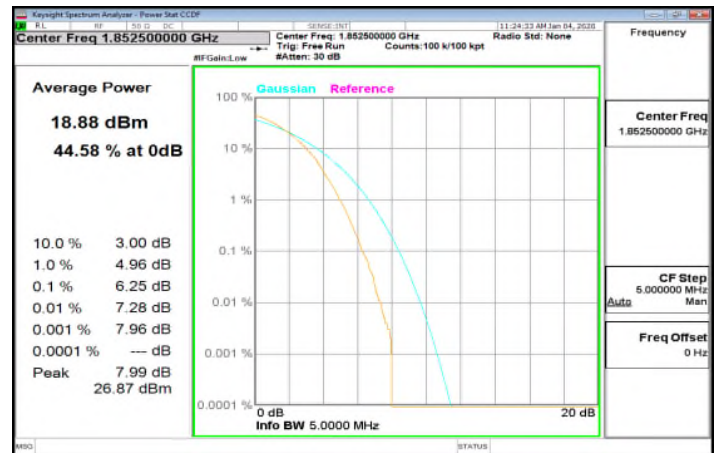
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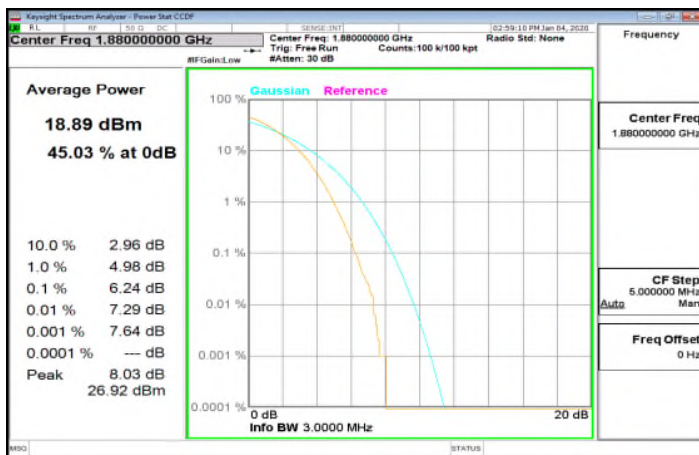
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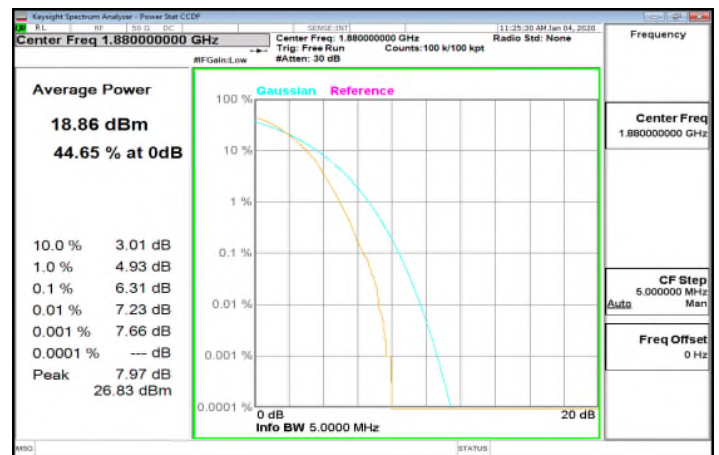
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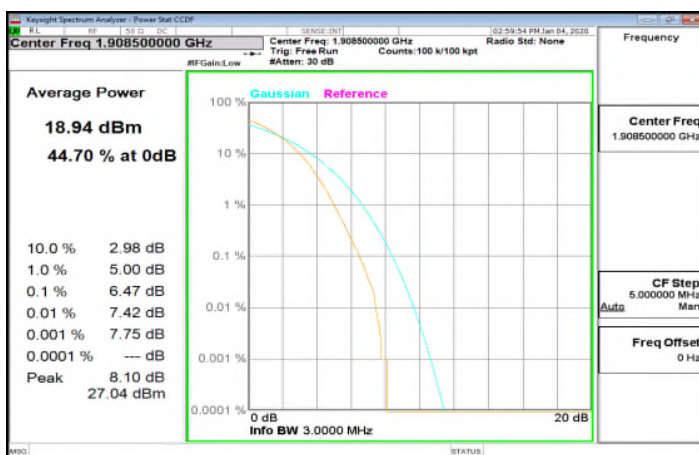
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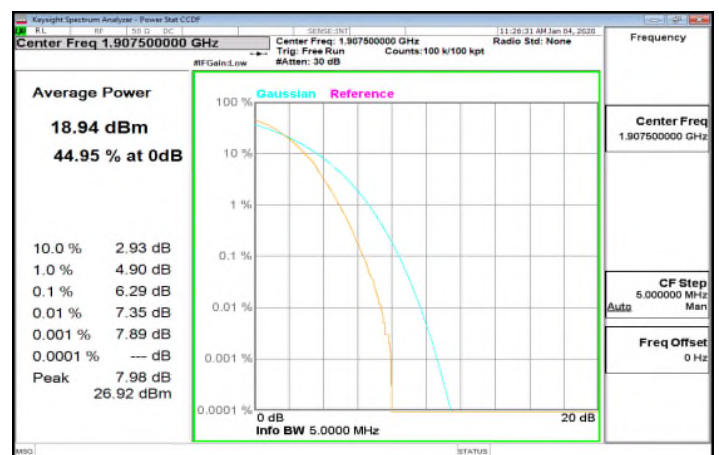
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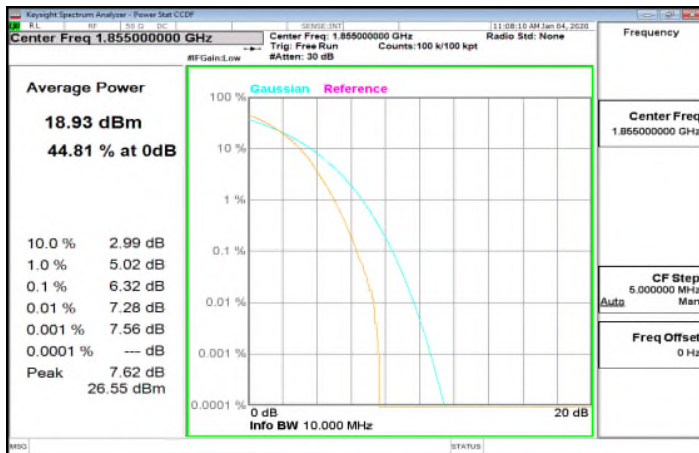
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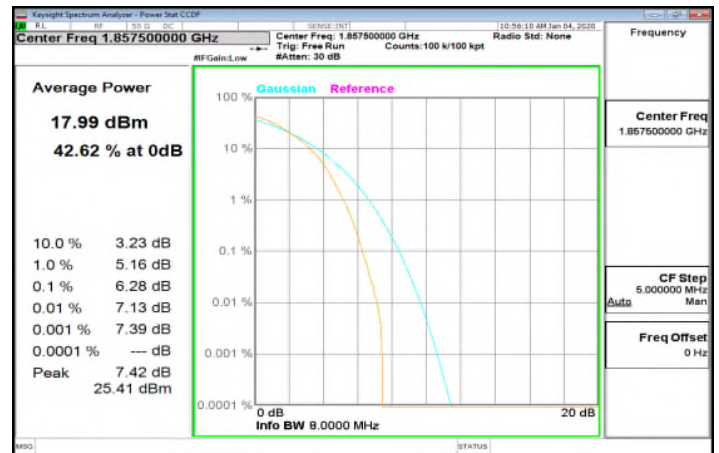
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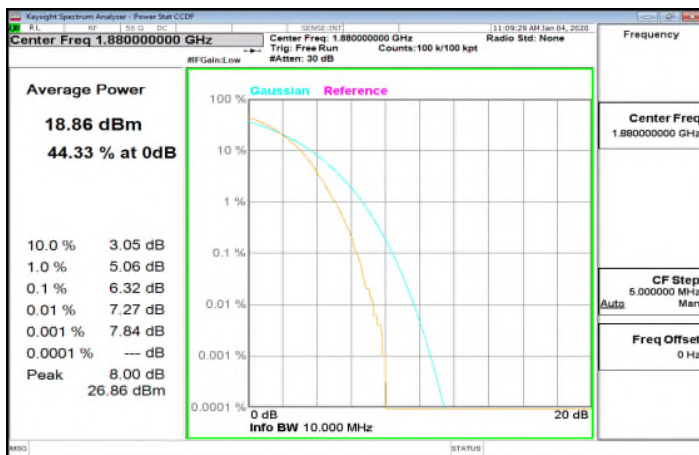
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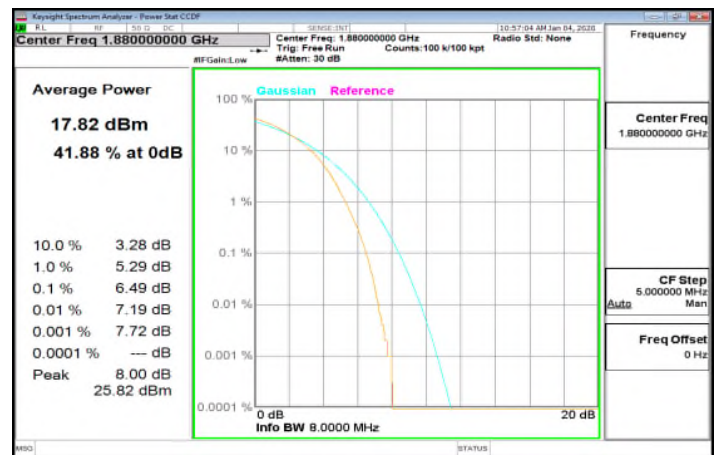
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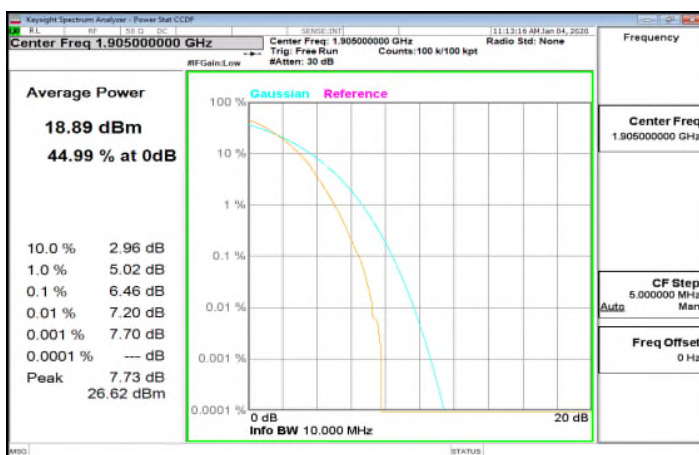
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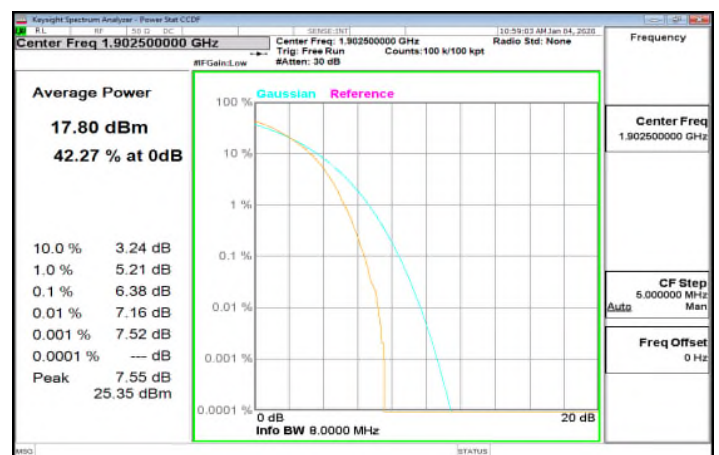
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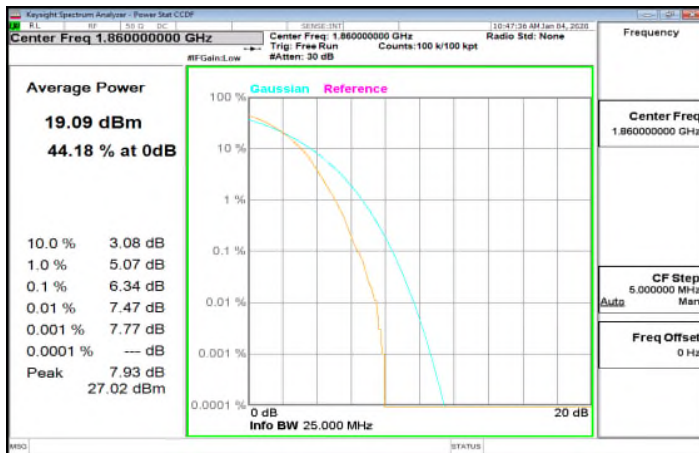
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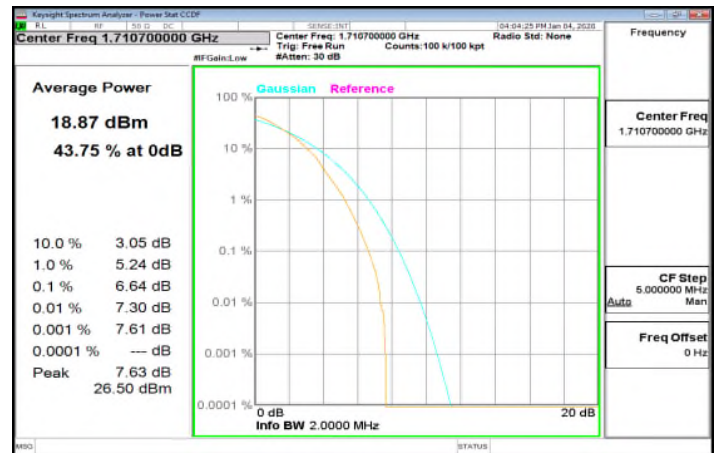
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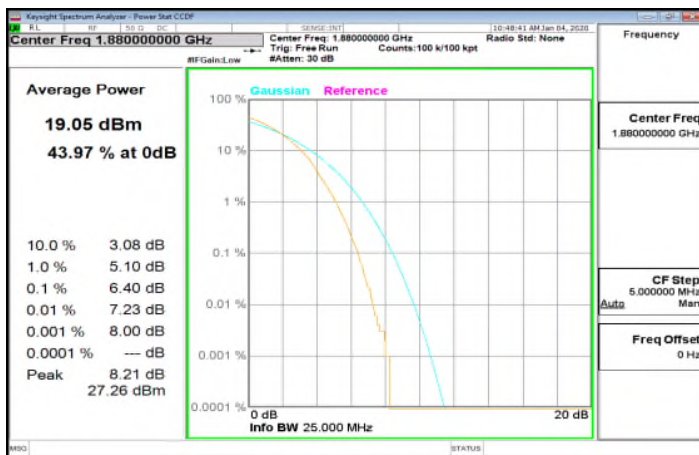
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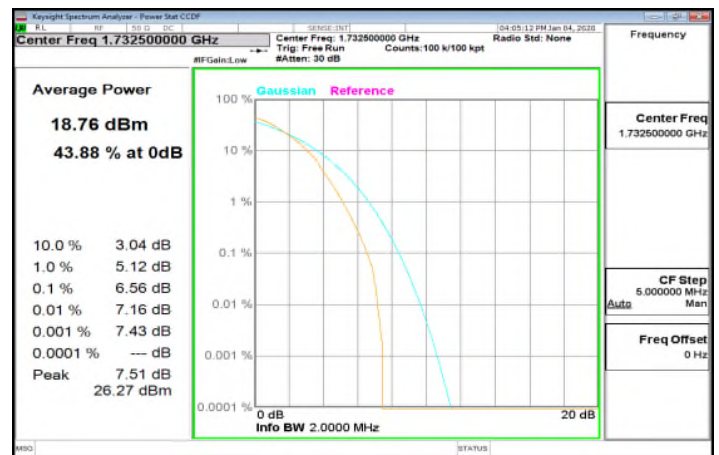
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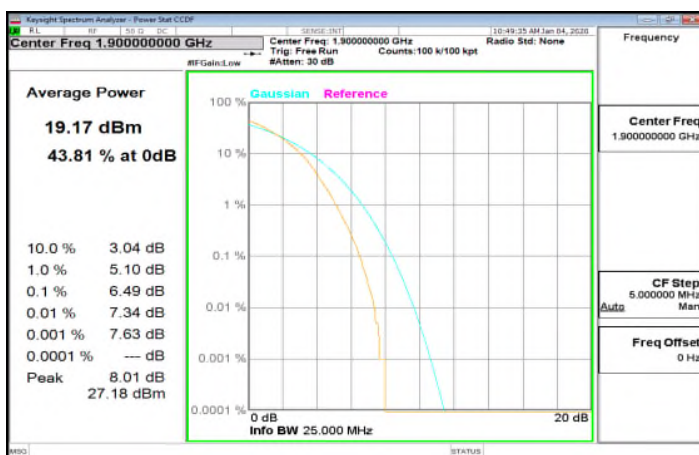
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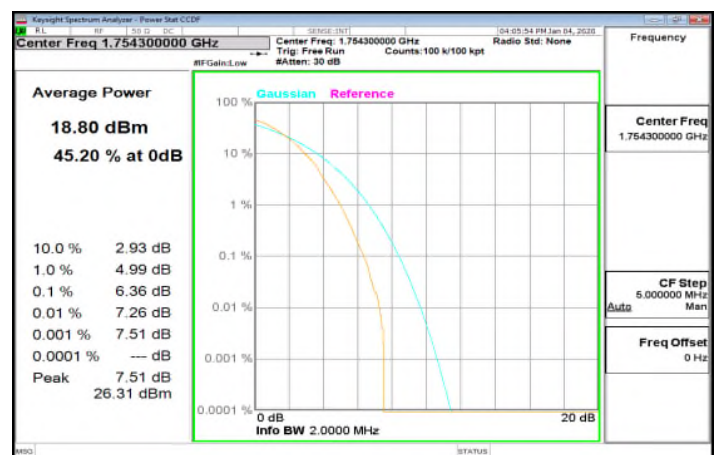
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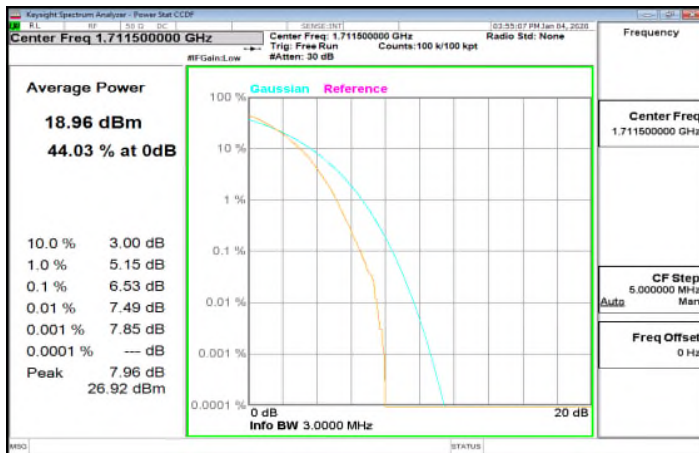
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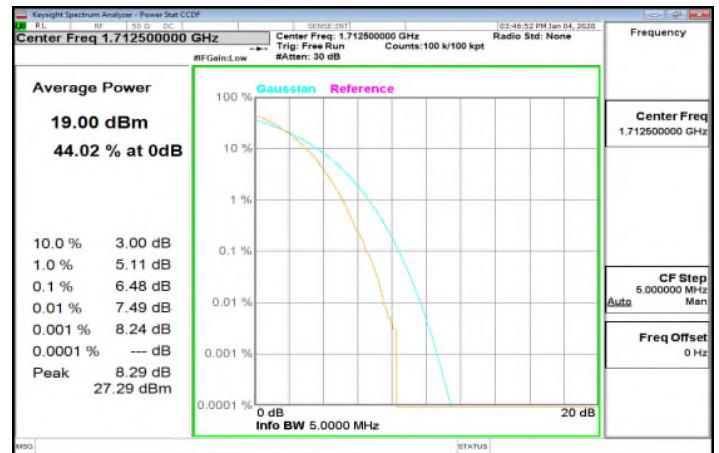
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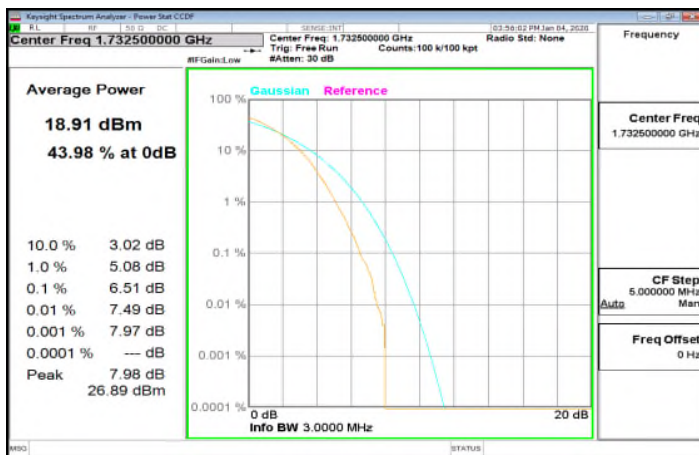
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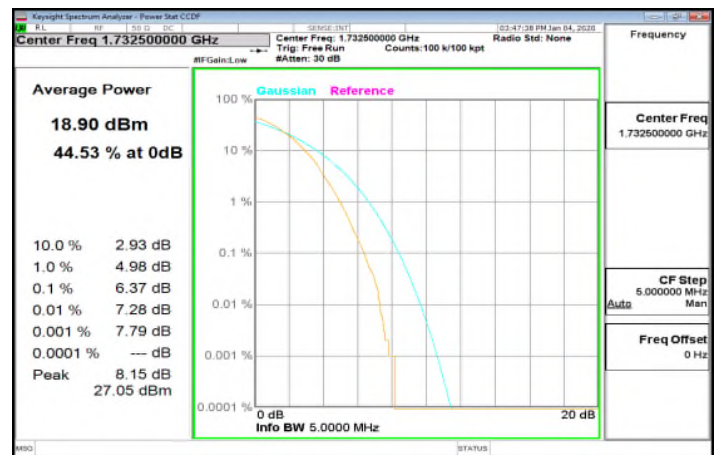
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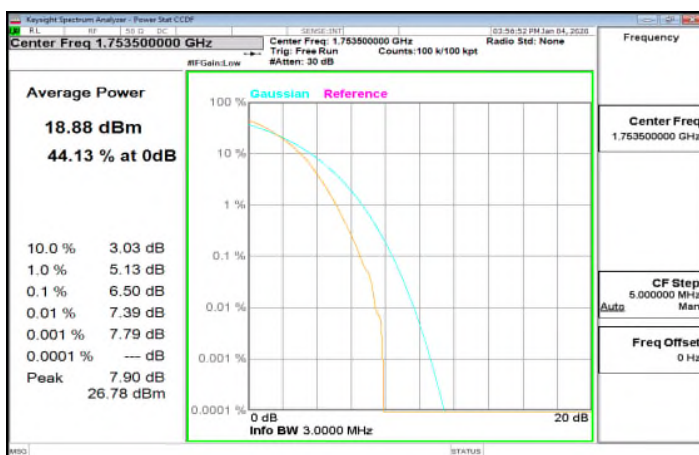
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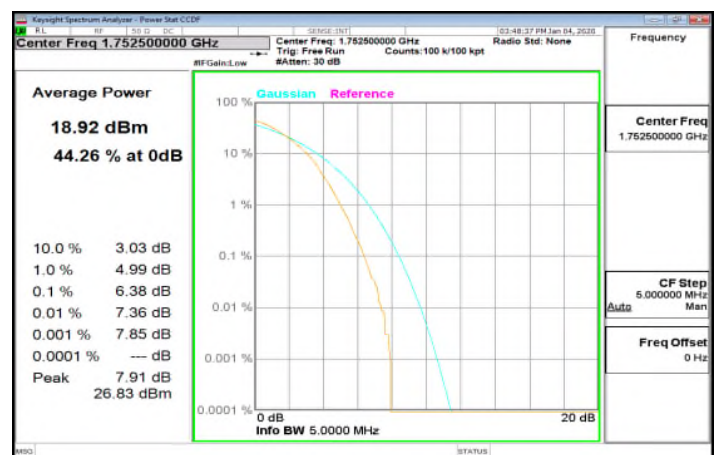
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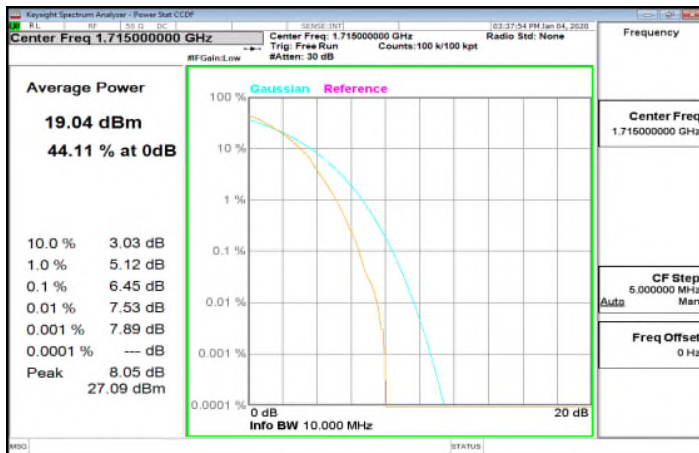
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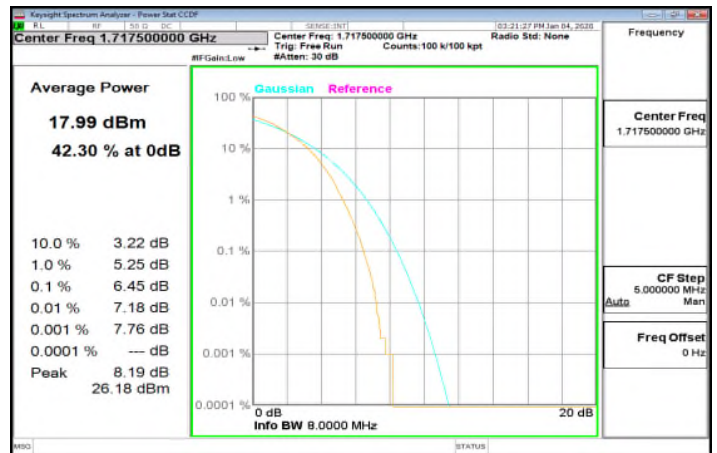
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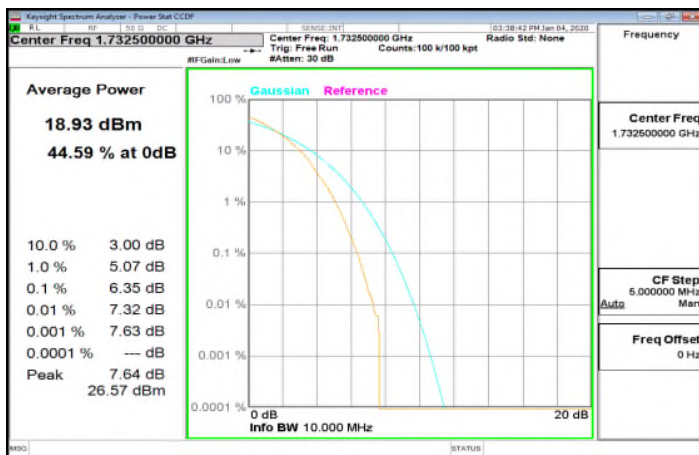
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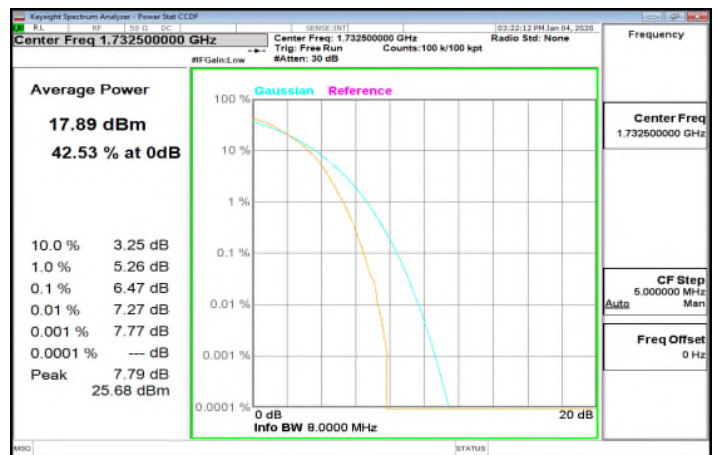
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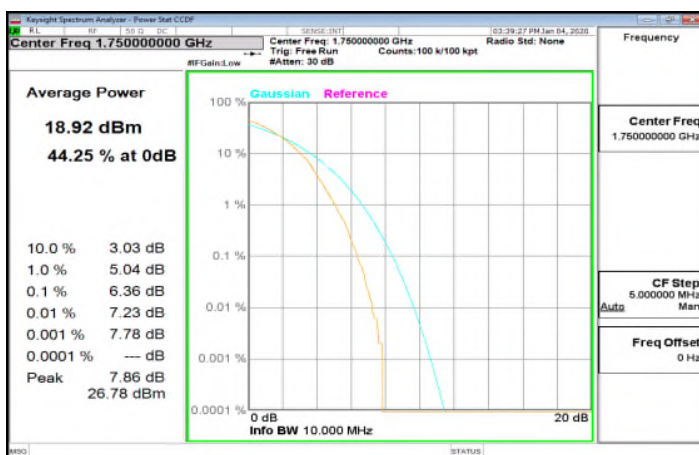
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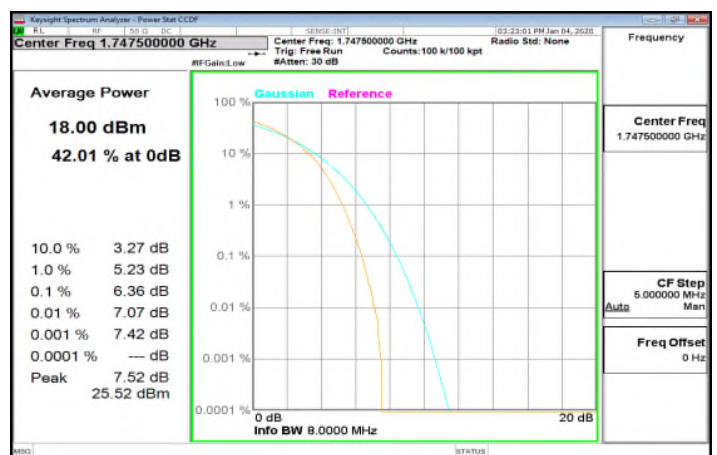
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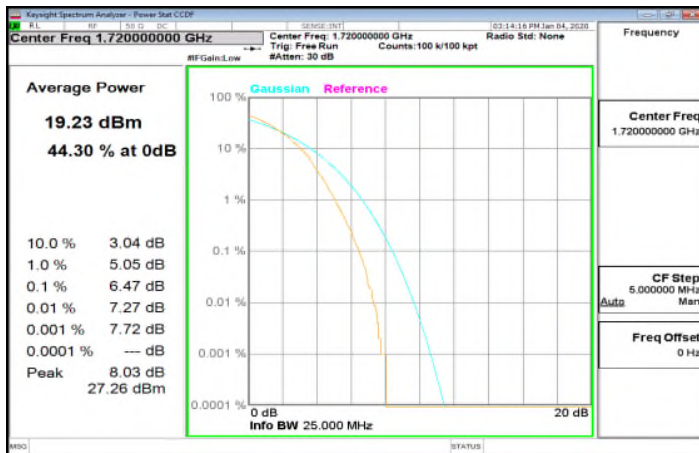
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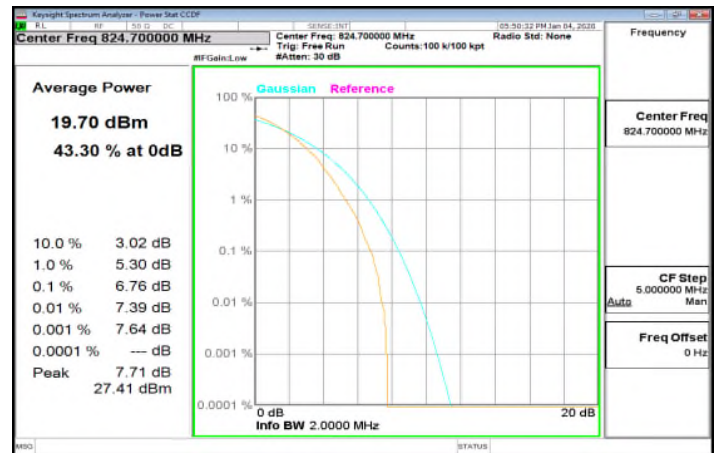
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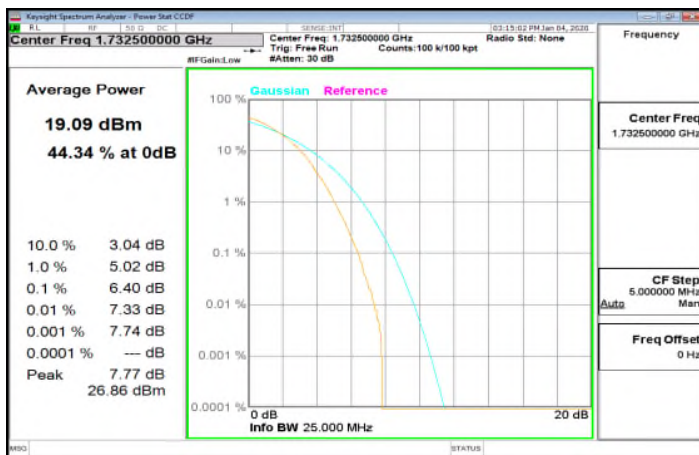
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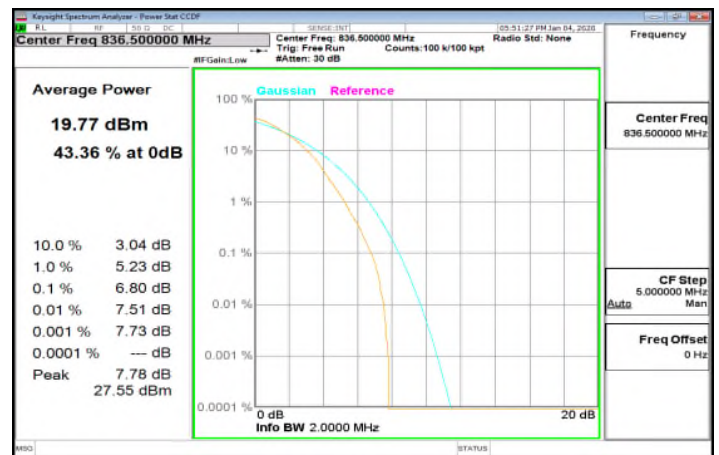
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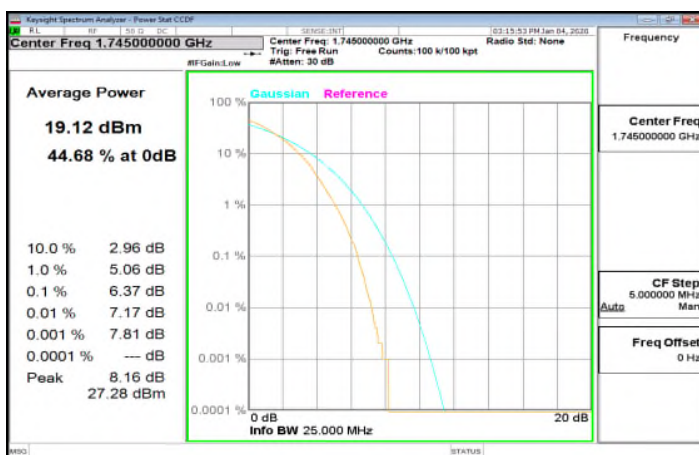
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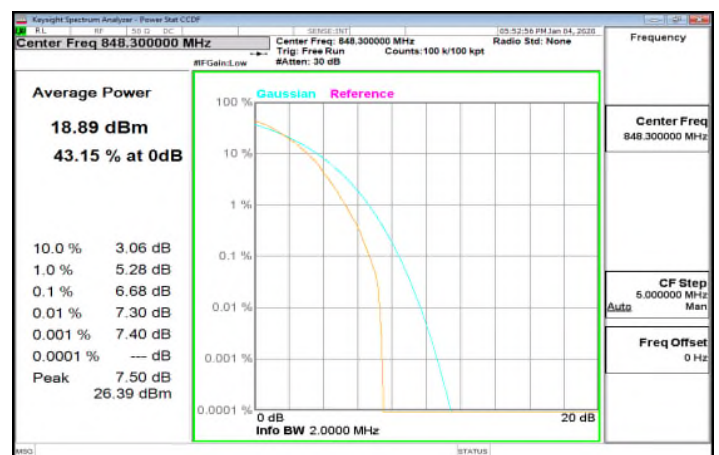
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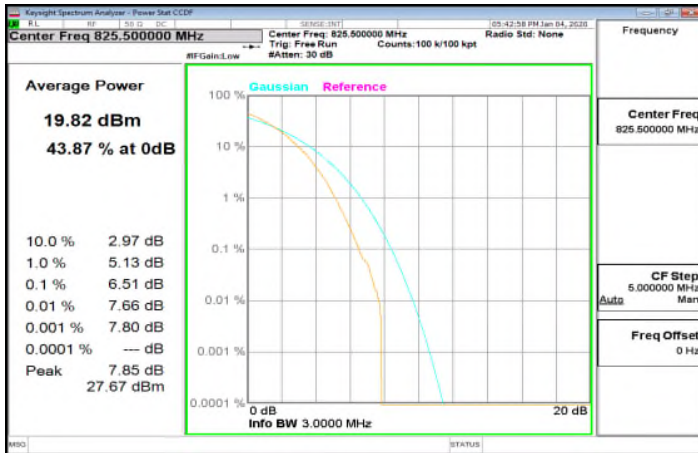
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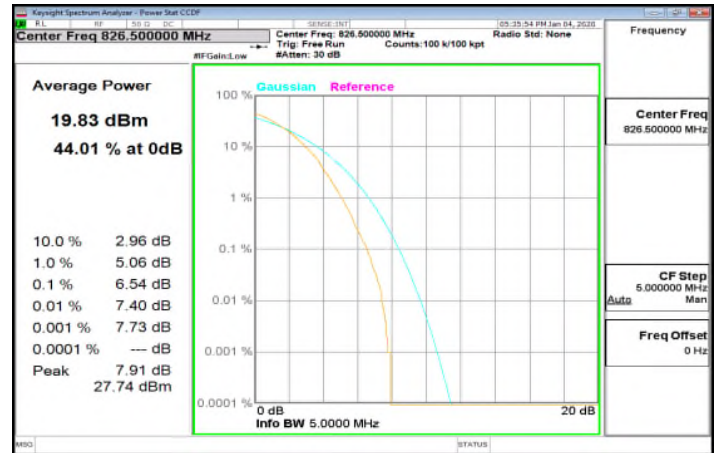
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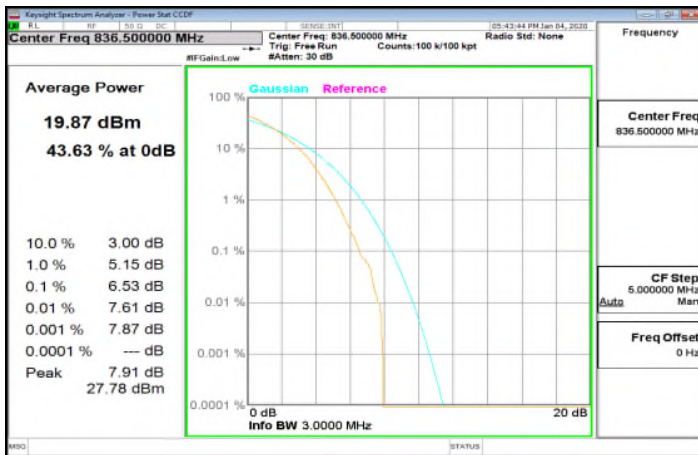
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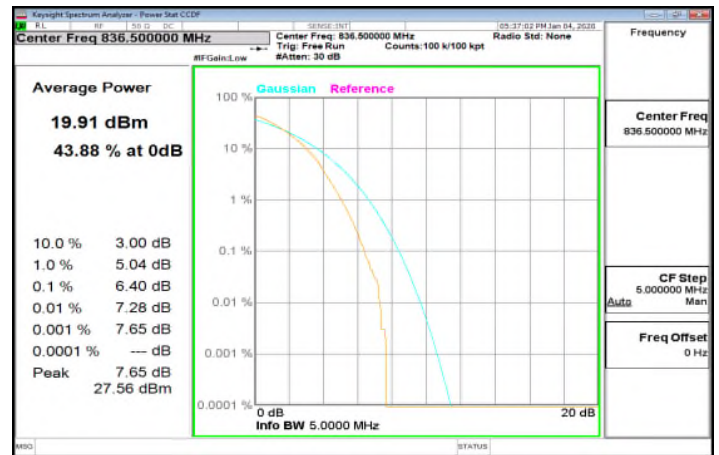
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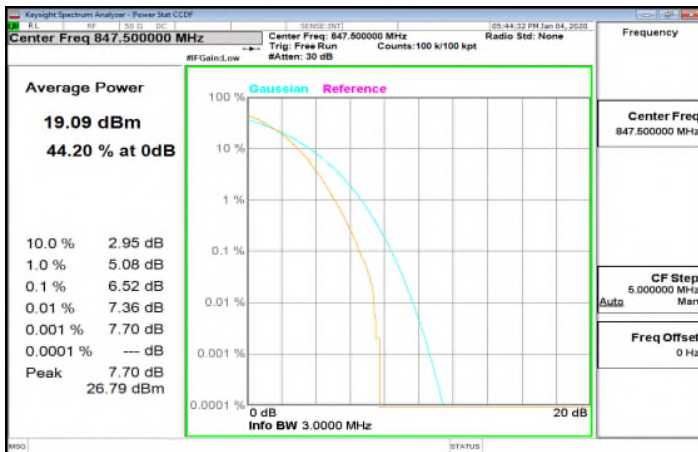
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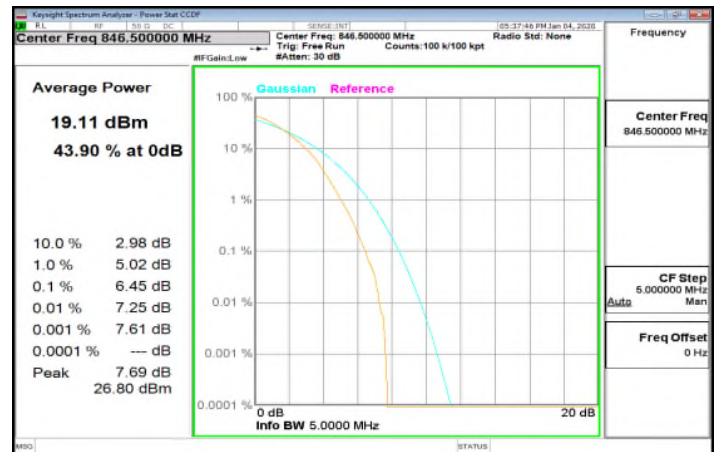
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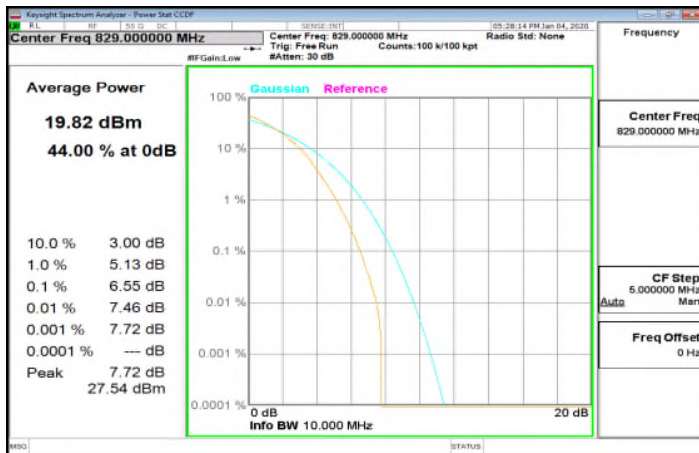
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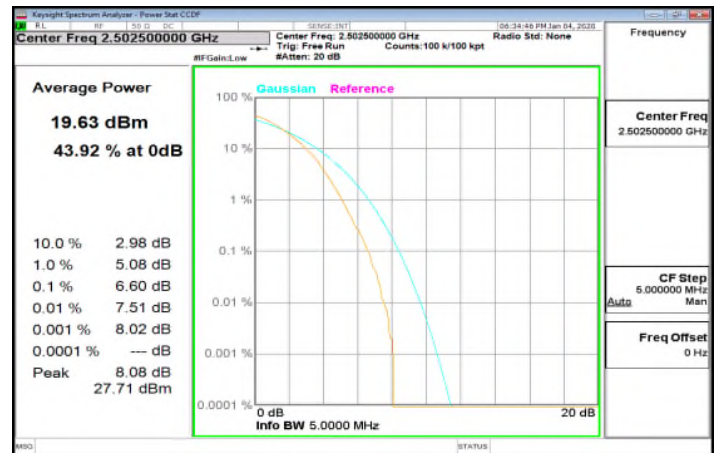
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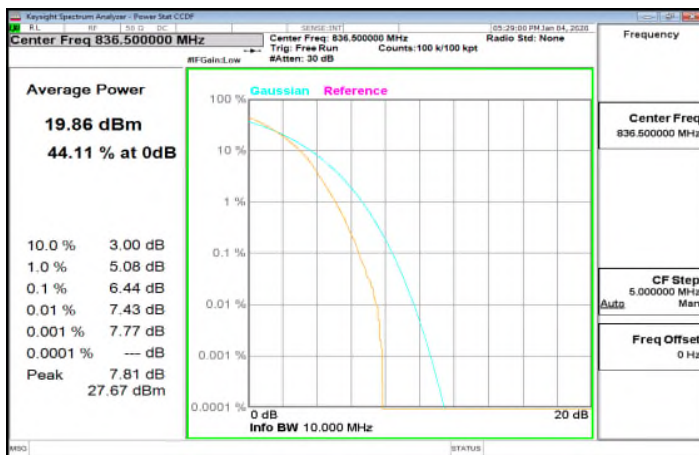
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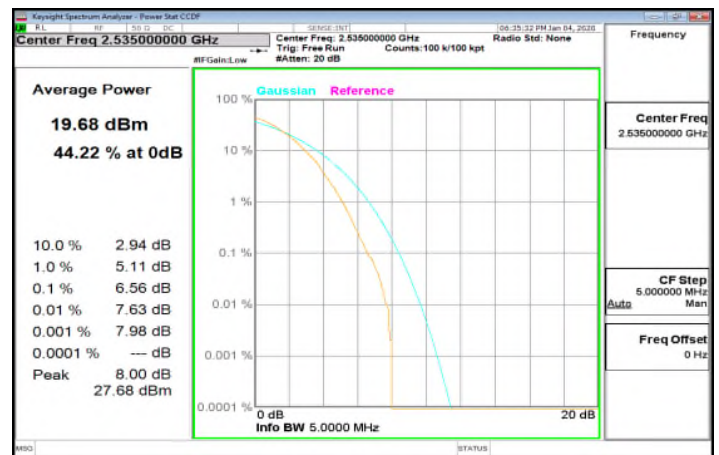
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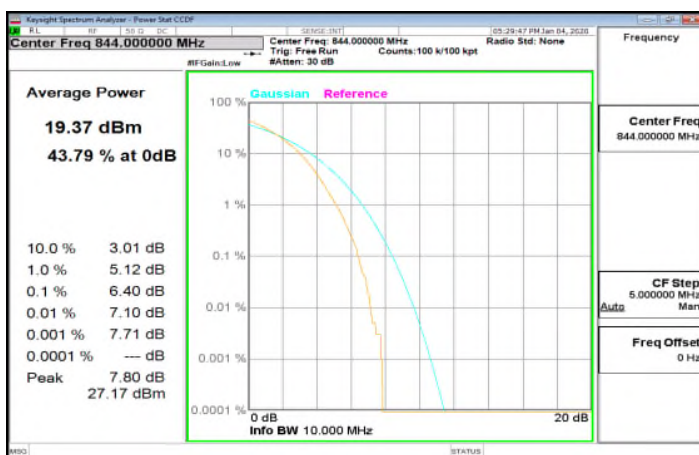
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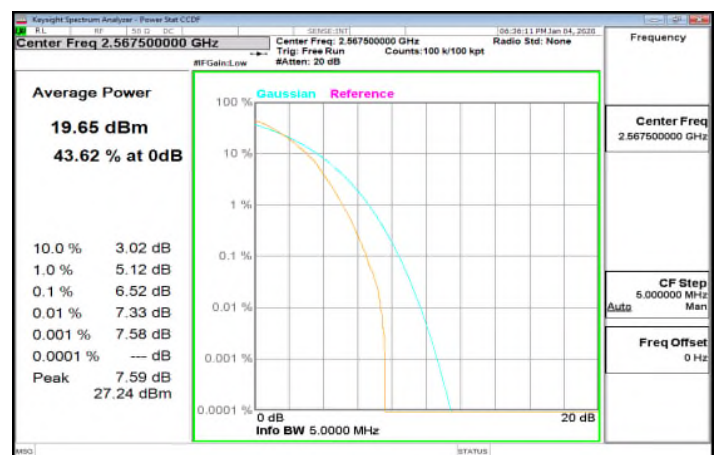
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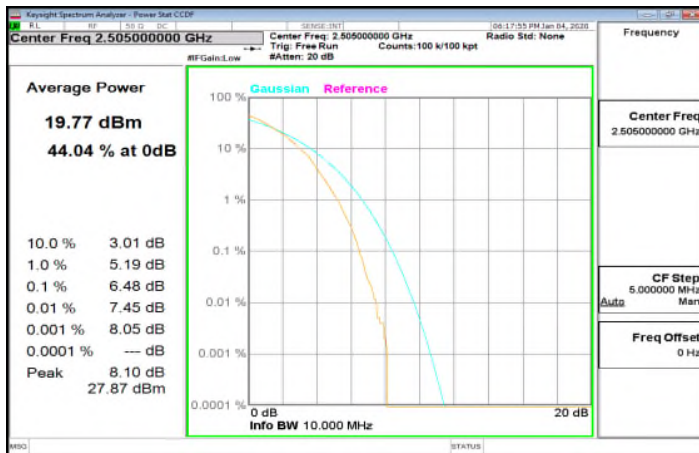
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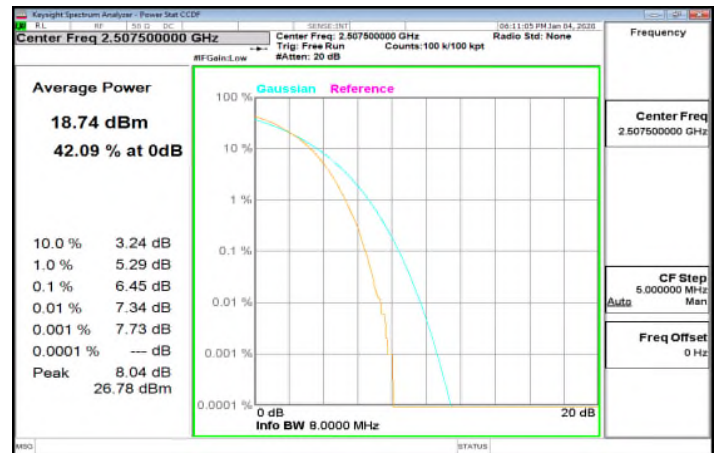
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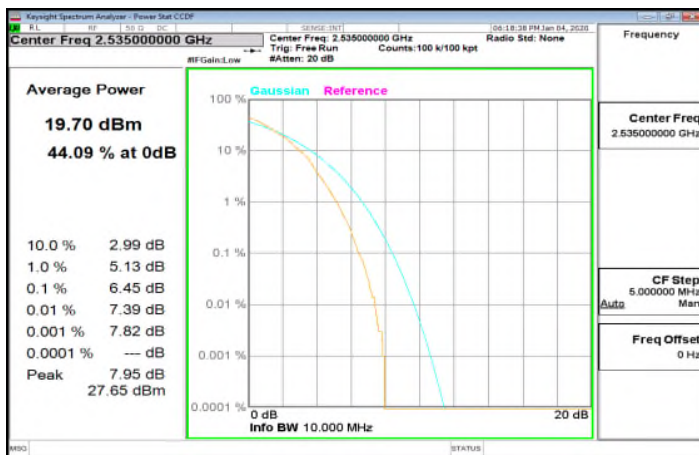
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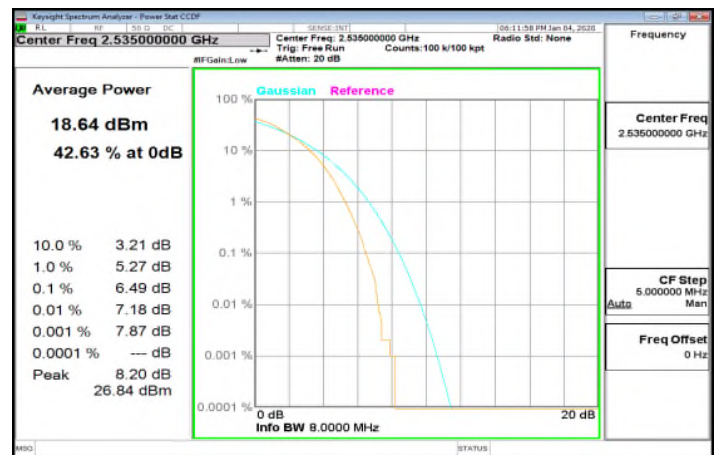
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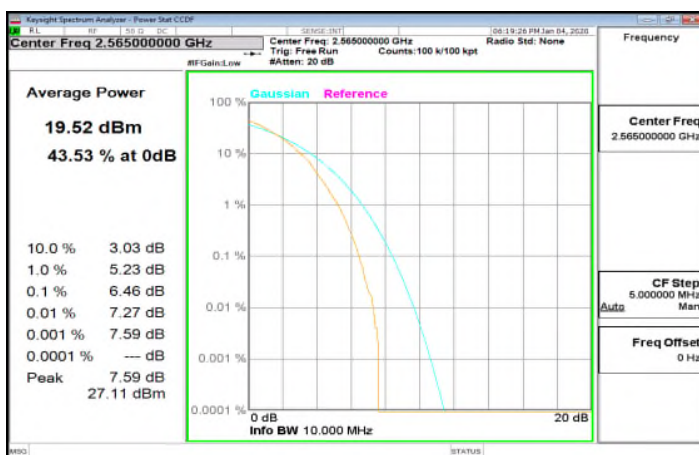
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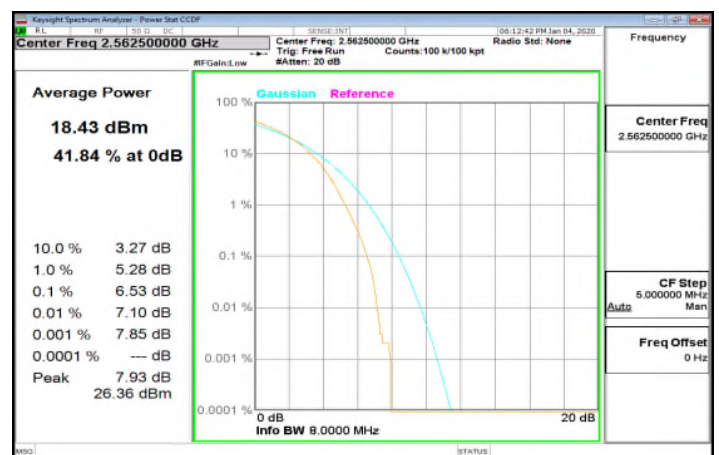
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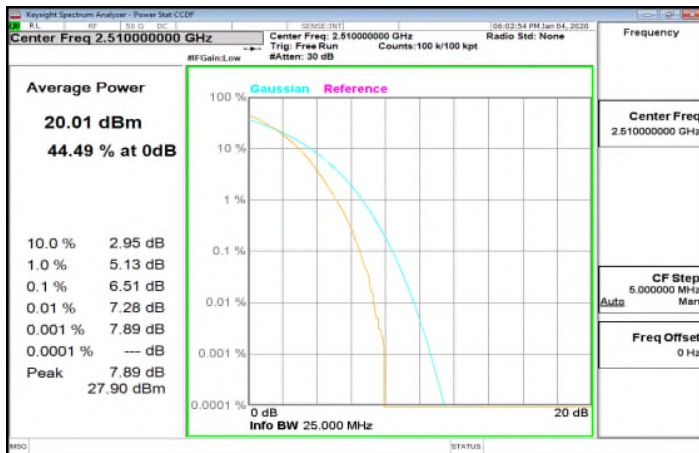
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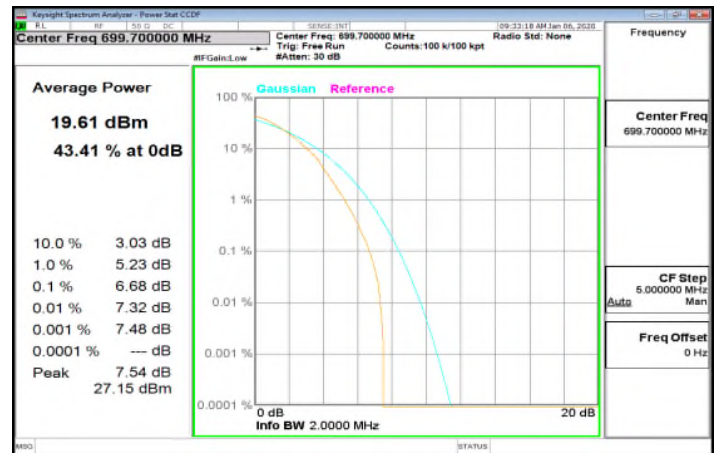
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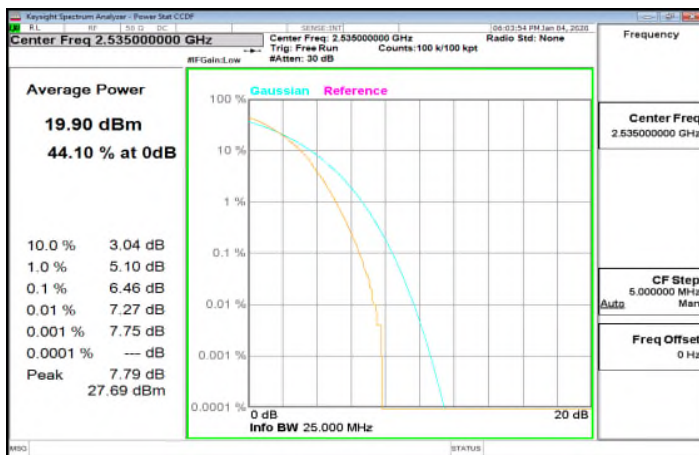
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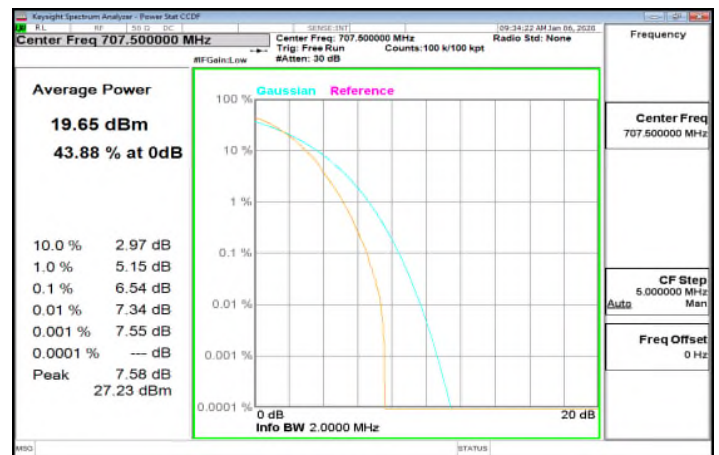
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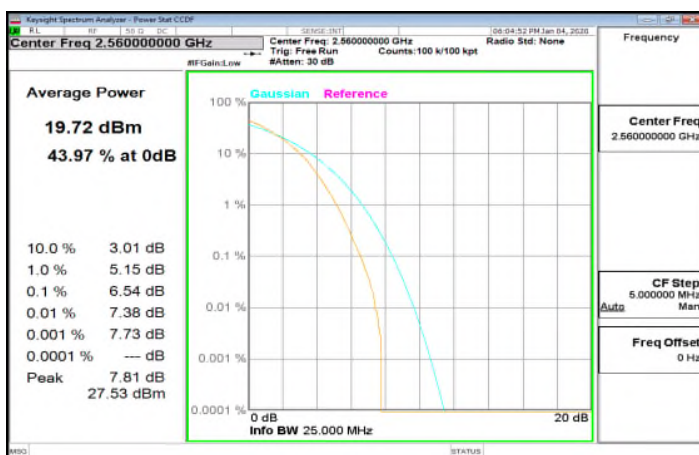
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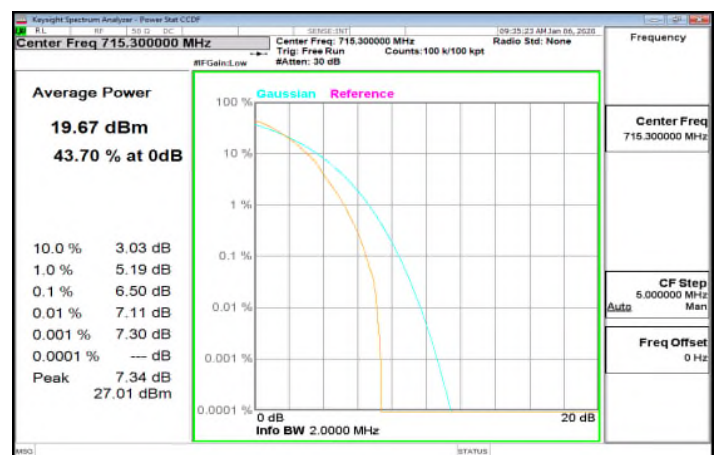
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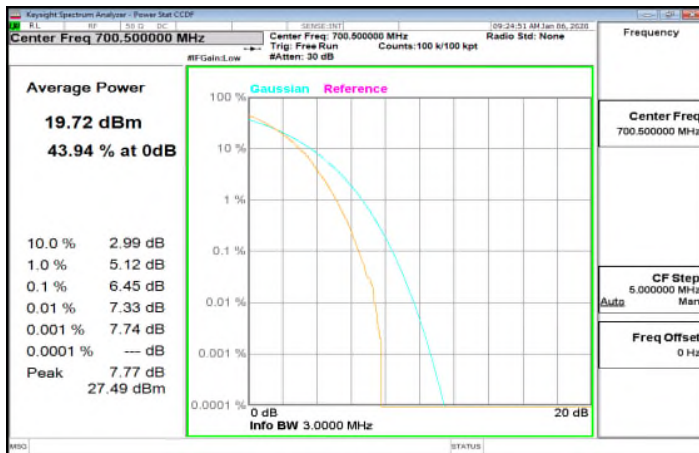
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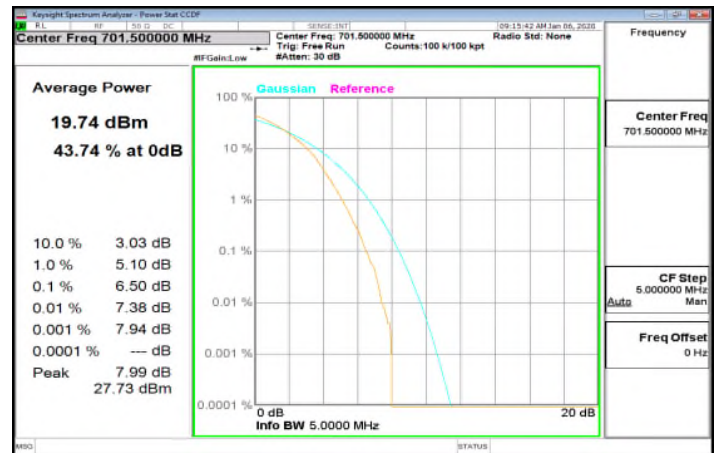
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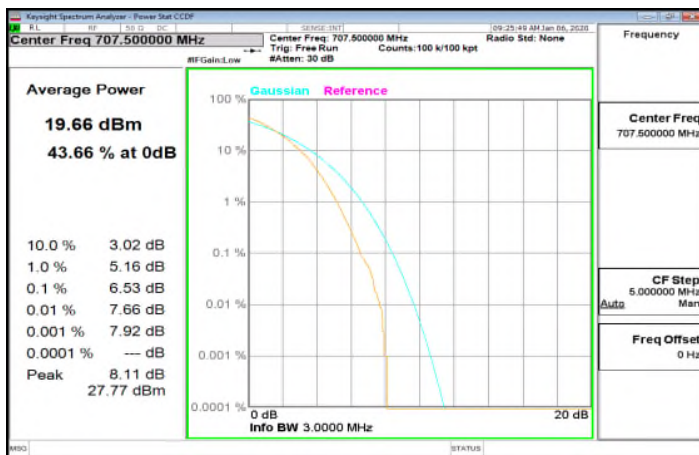
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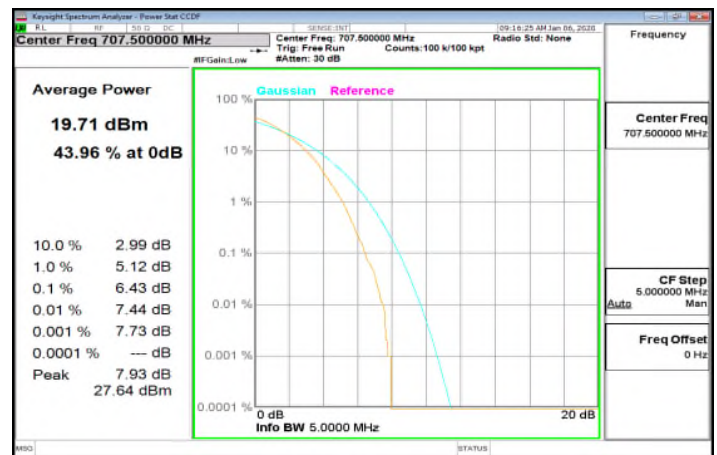
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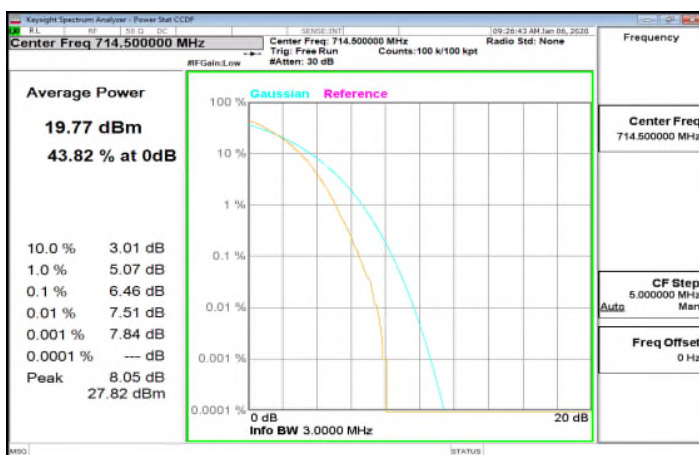
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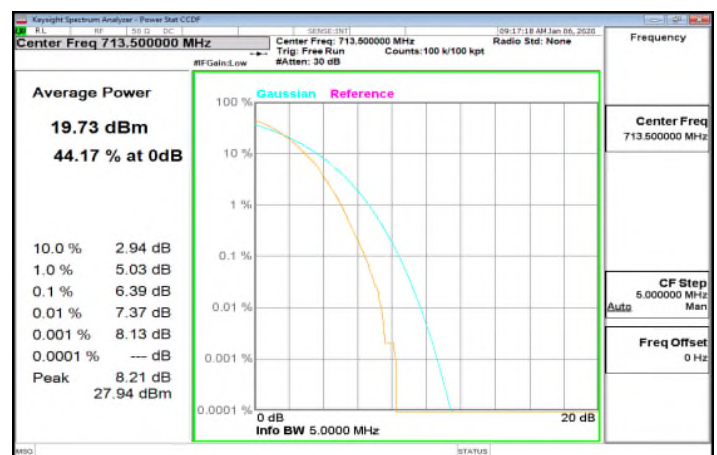
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LTE\_Band12\_5MHz\_64QAM\_25\_0\_HighCH23155-713.5



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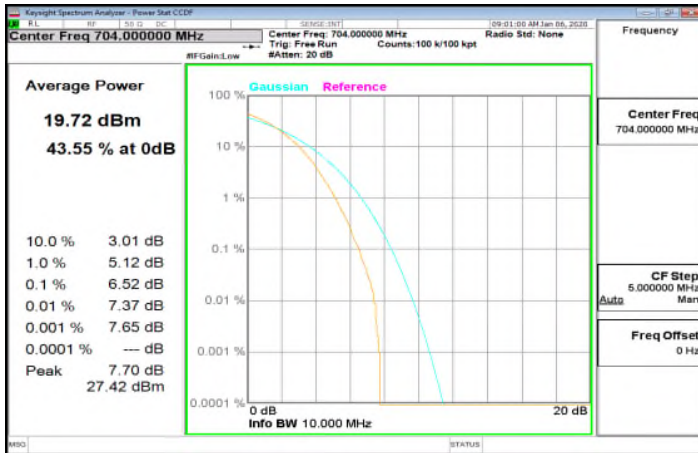
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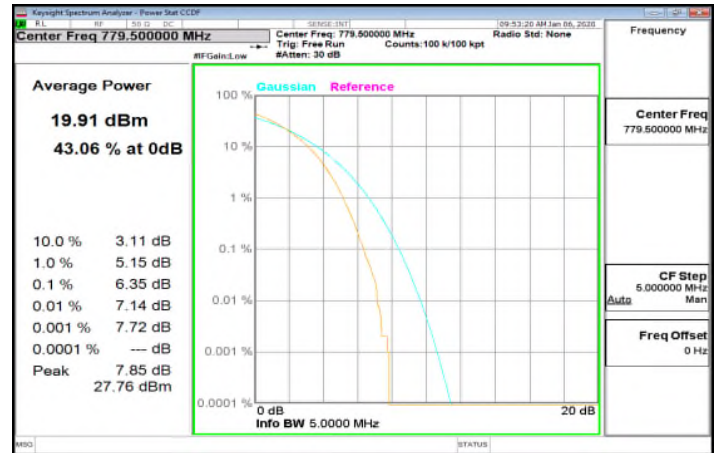
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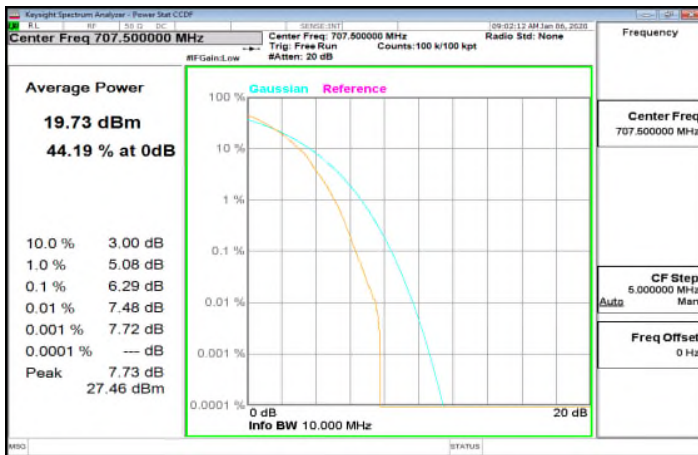
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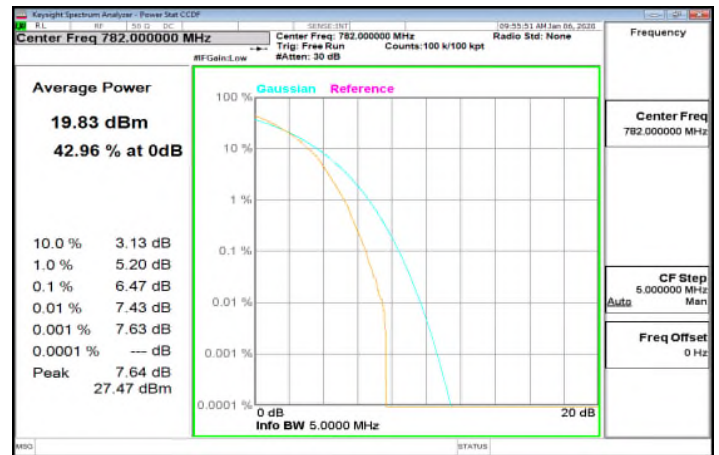
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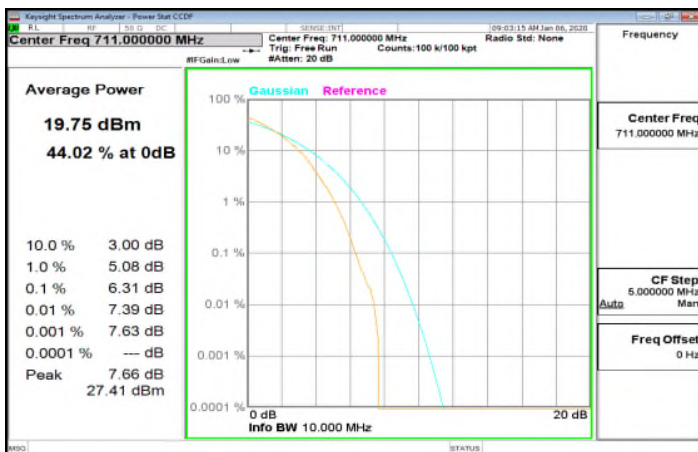
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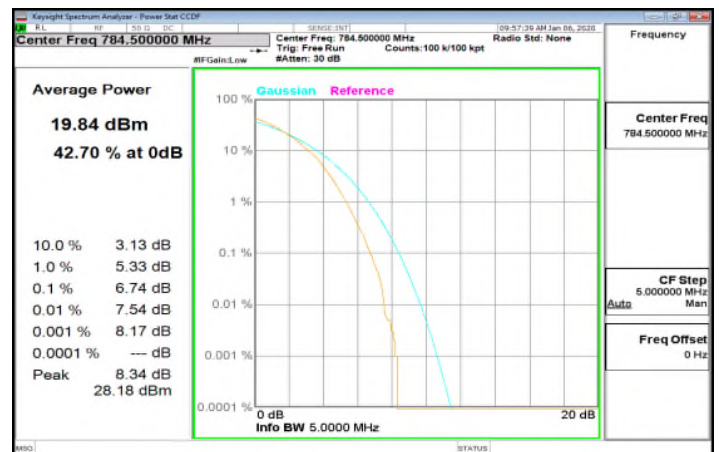
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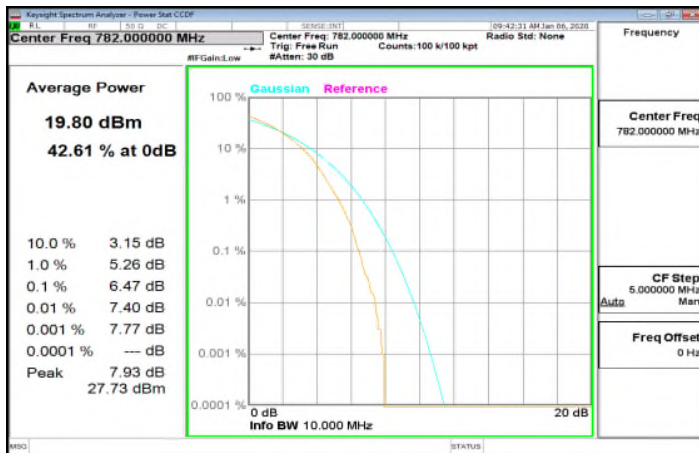
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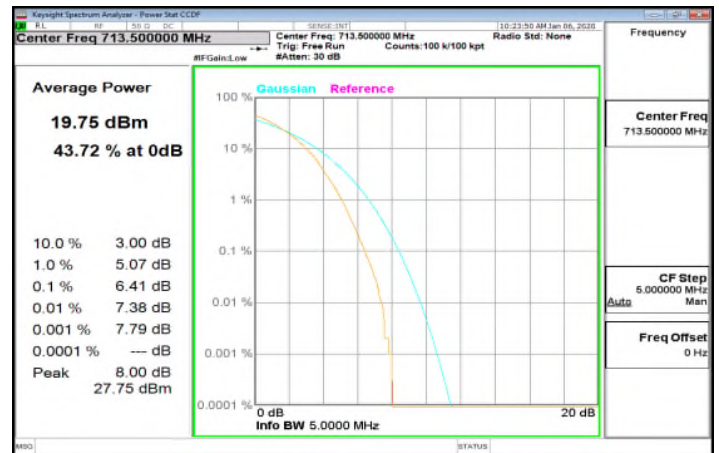
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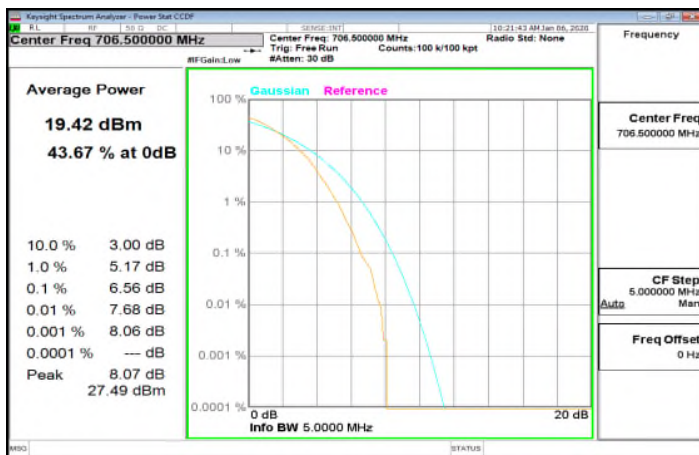
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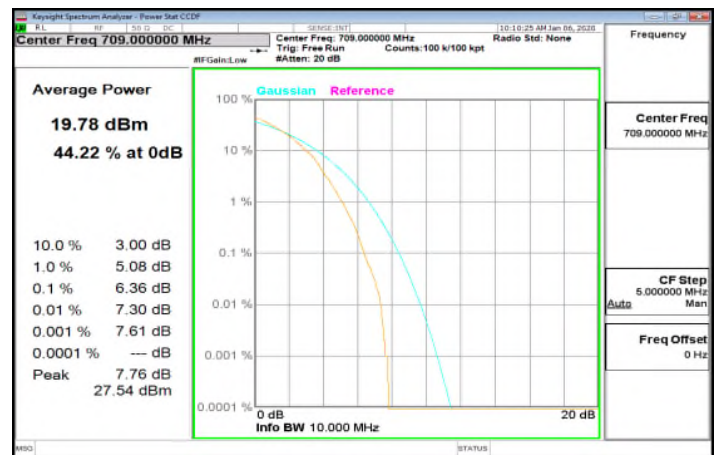
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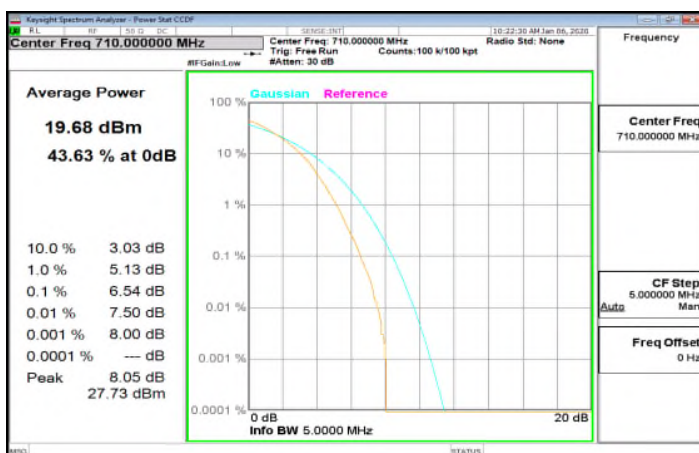
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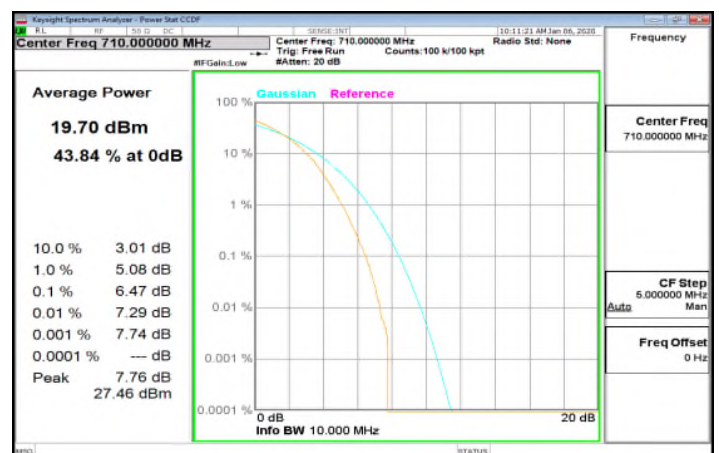
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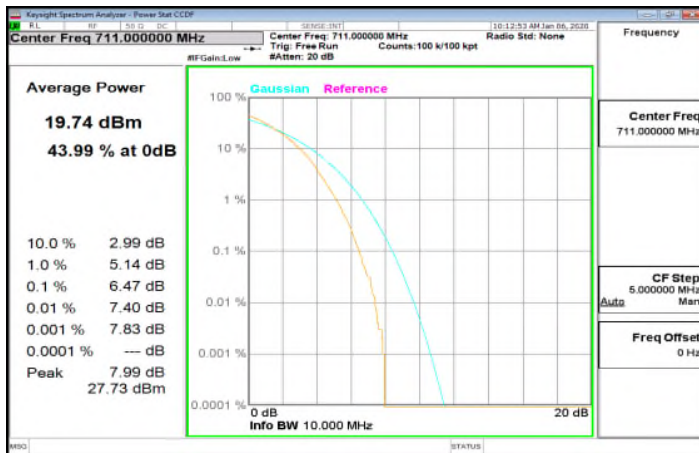
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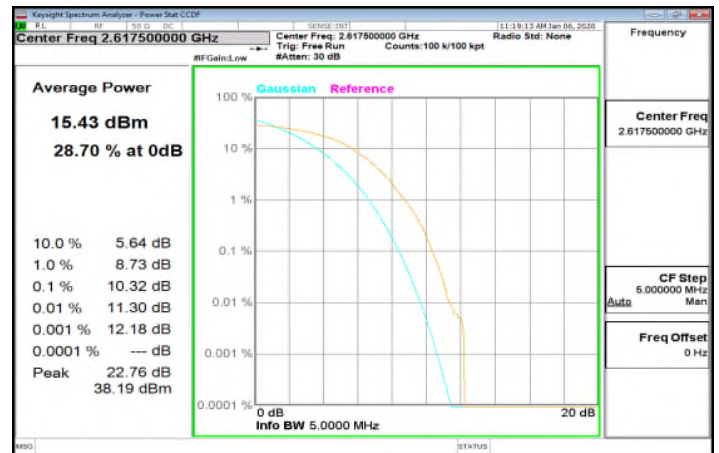
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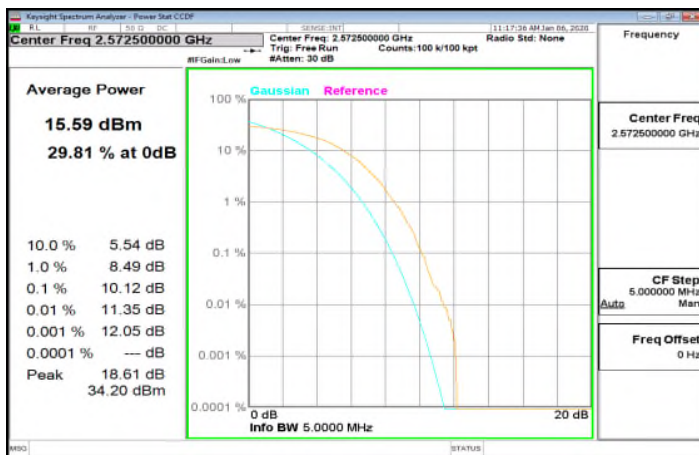
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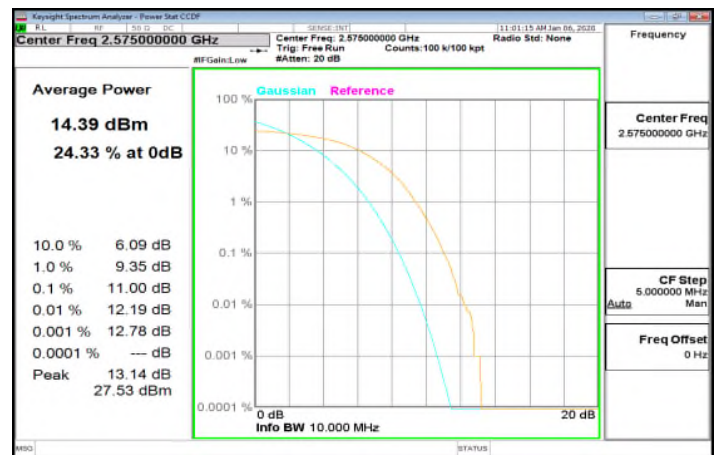
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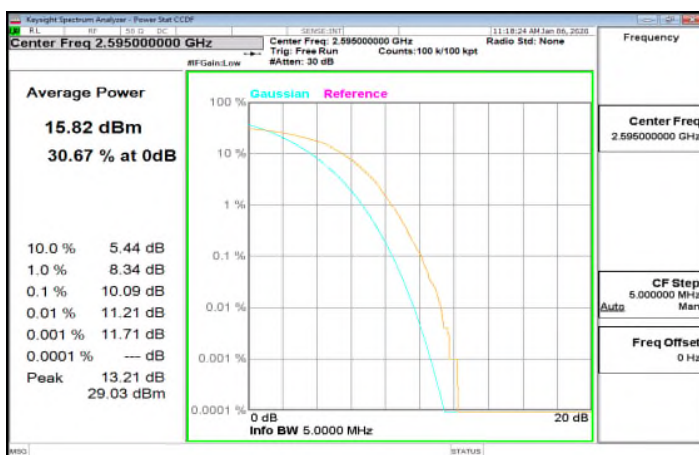
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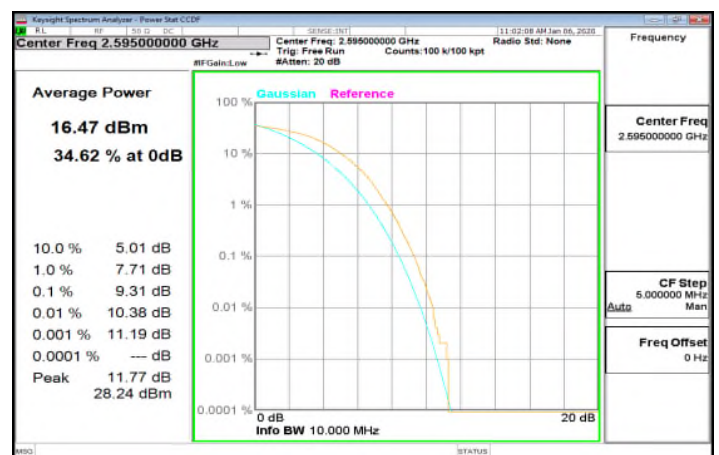
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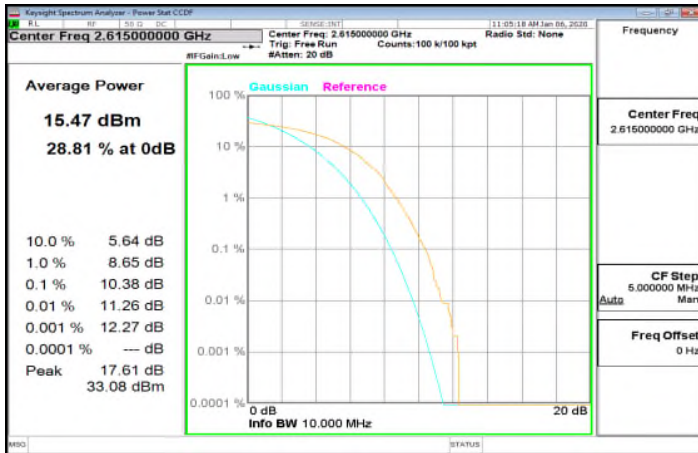
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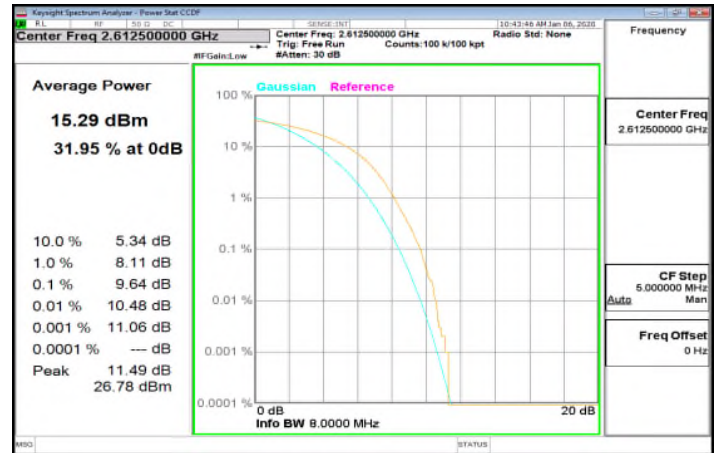
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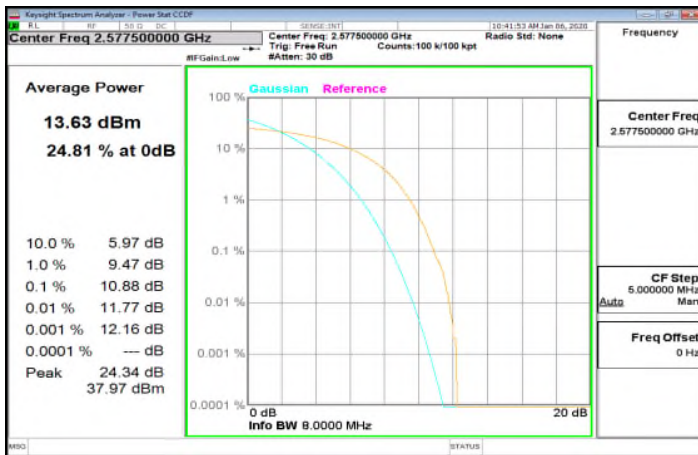
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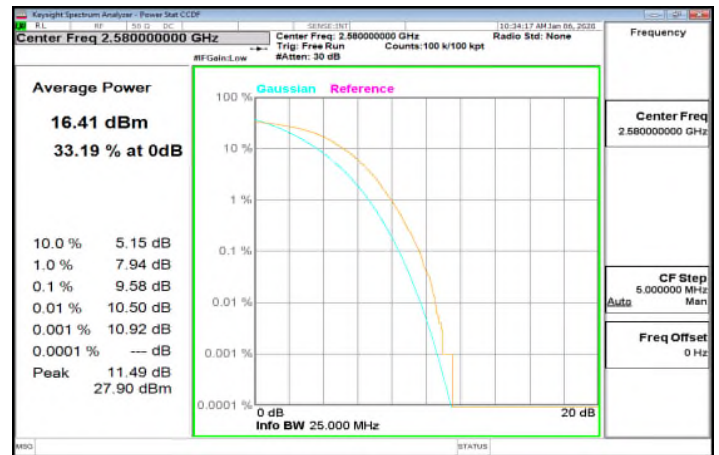
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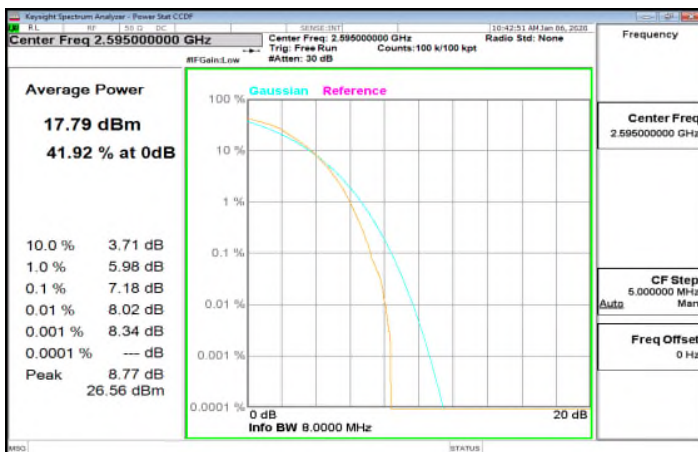
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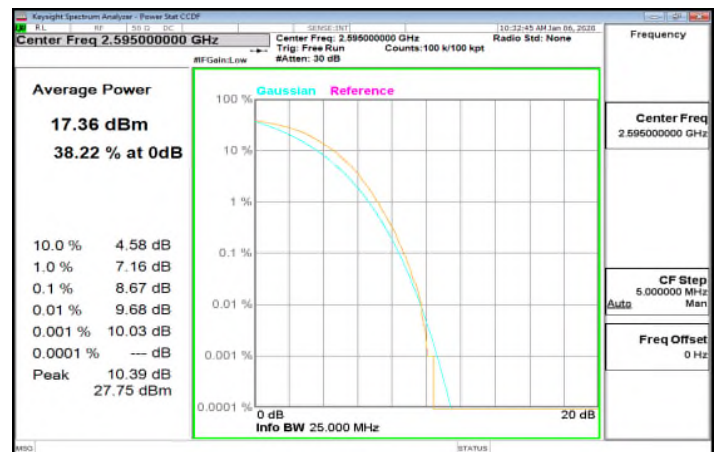
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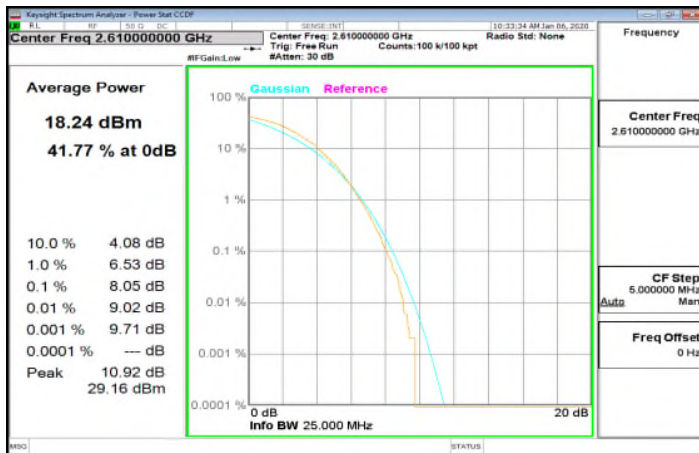
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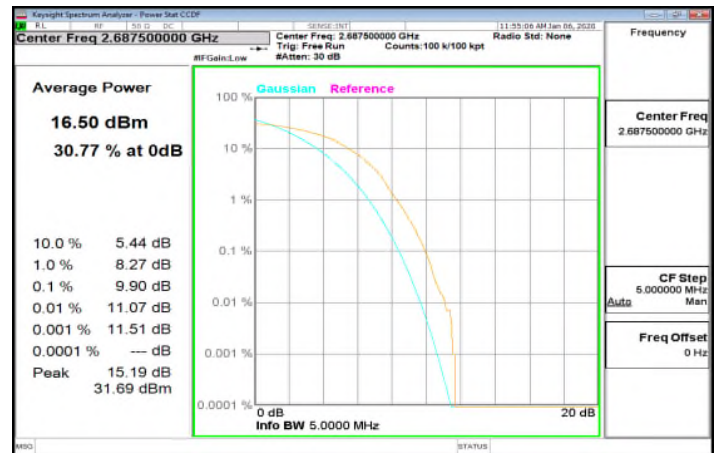
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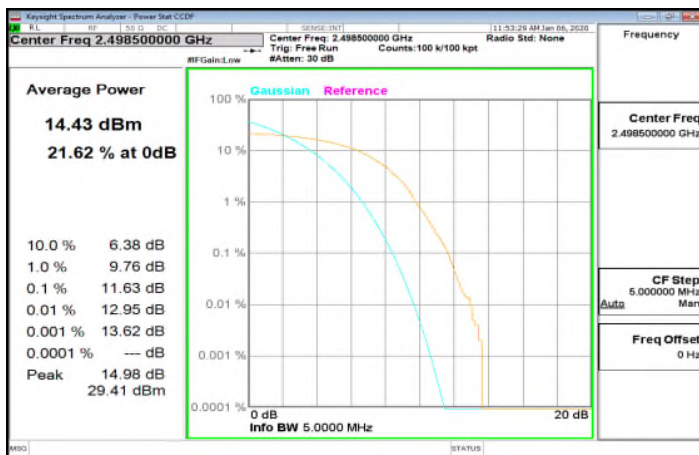
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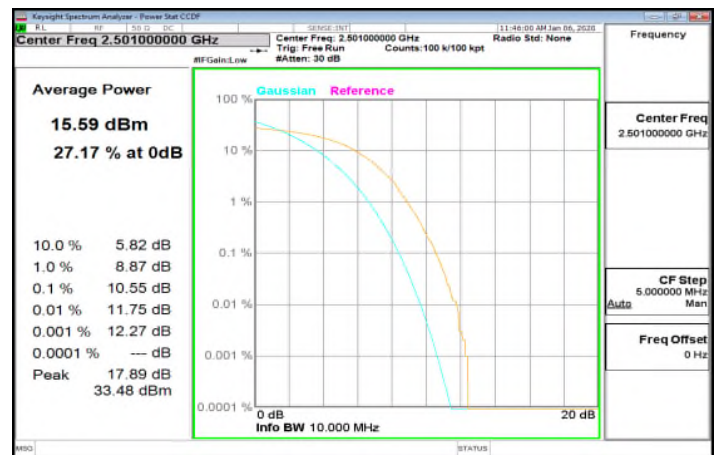
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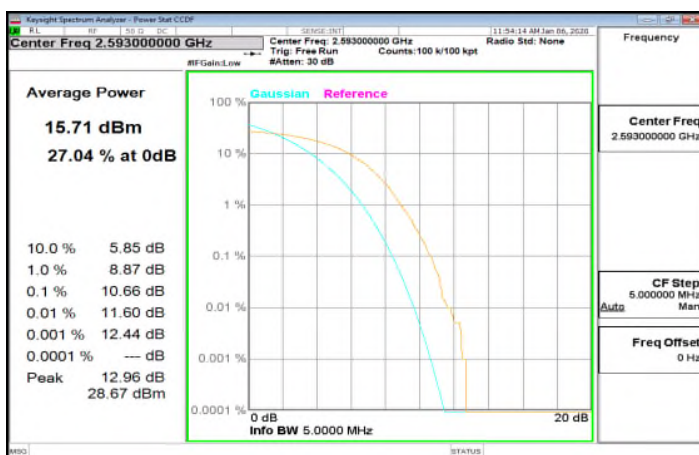
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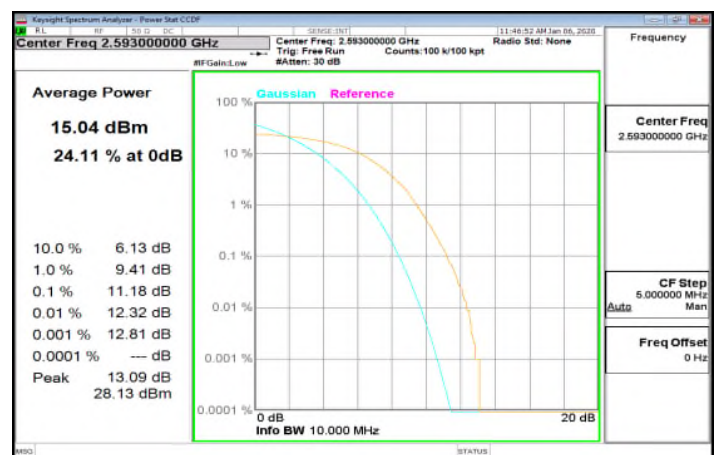
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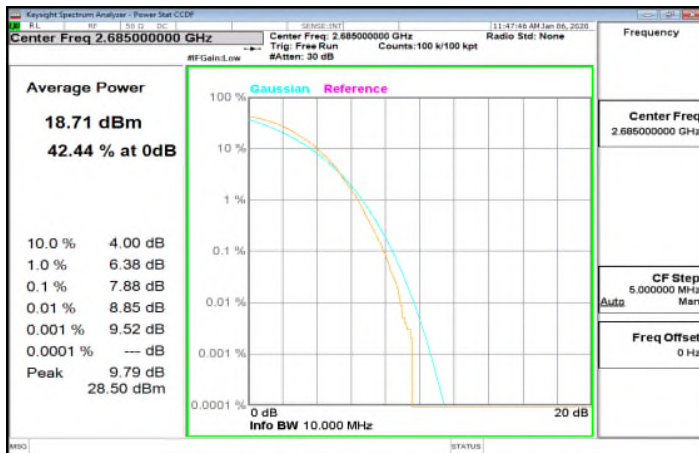
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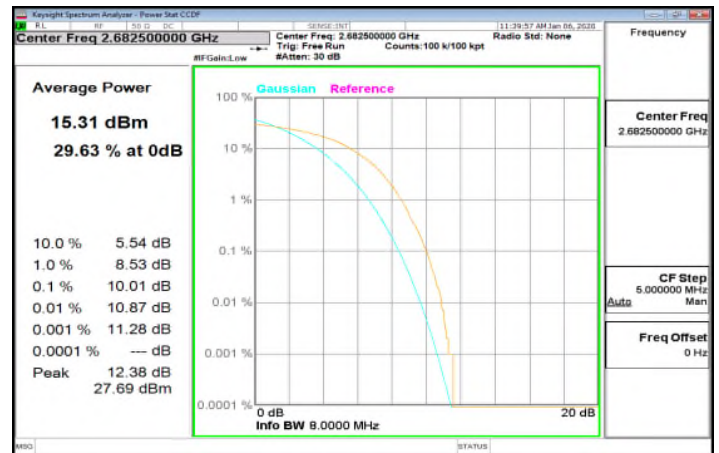
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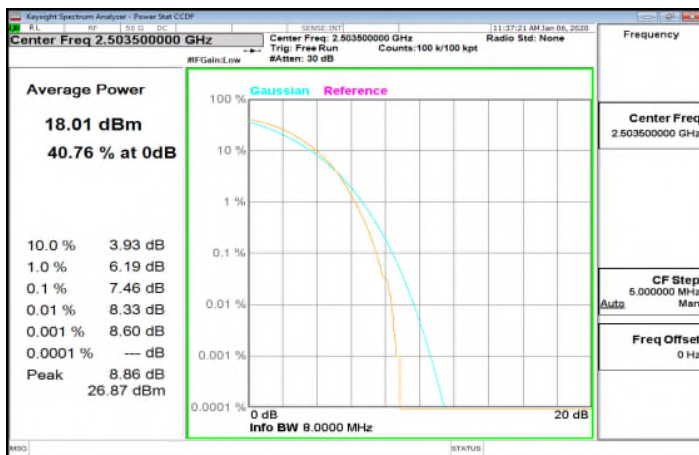
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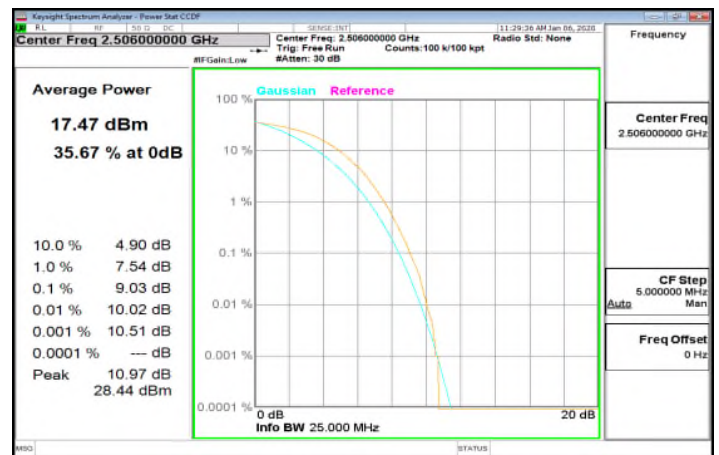
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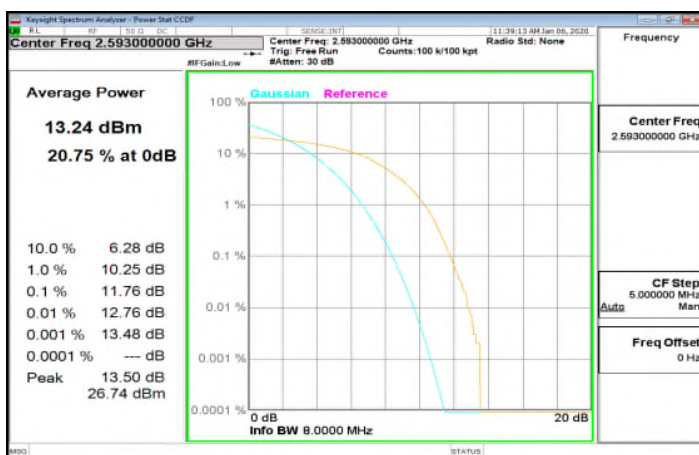
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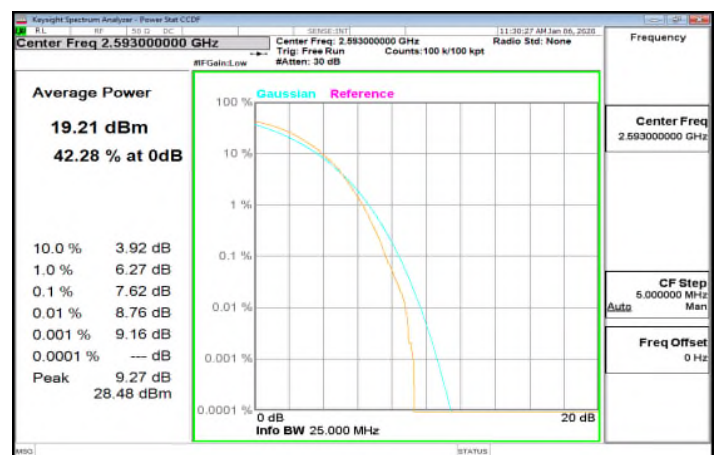
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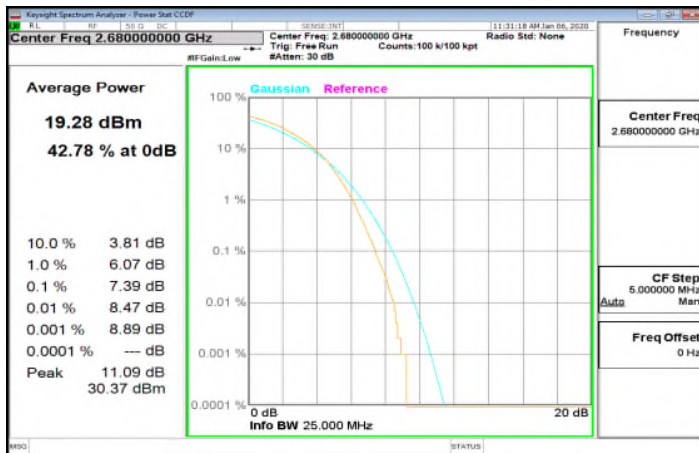
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*~ End of Report ~*

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