

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H, PART 24 SUBPART E and PART 27 SUBPART B, C & SUBPART L REQUIREMENT REFERENCING TEST DATA ACROSS SEPARATE EQUIPMENT VERIFICATION

OF

Product Name: Phablet
Brand Name: HP
Model No.: HSTNH-F606V
Model Difference: N/A
FCC ID: B94HHF606V
Report No.: ER/2017/20026
Issue Date: Feb. 10, 2017
FCC Rule Part: 2 , 22H & 24E & 27B, C & L
Prepared for: HP Inc.
 3390 East Harmony Road Fort Collins, Colo-
 rado 80528 United States
 SGS Taiwan Ltd.
Prepared by: Electronics & Communication Laboratory
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 Industrial Park, Wuku District, New Taipei
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VERIFICATION OF COMPLIANCE

Applicant: HP Inc.
3390 East Harmony Road Fort Collins, Colorado 80528 United States

Product Name: Phablet

Brand Name: HP

Model No.: HSTNH-F606V

Model Difference: N/A

FCC ID: B94HHF606V

Report Number: ER/2017/20026

Date of test: Apr. 20, 2016 ~ Feb. 06, 2017

Date of EUT Received: Apr. 20, 2016

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

Test By:

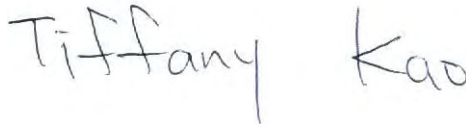


Date:

Feb. 10, 2017

Tin Lin / Engineer

Prepared By:

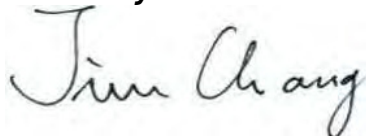


Date:

Feb. 10, 2017

Tiffany Kao / Clerk

Approved By:



Date:

Feb. 10, 2017

Jim Chang / Asst. Manager

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Revision History

| Report Number | Revision | Description | Issue Date |
|---------------|----------|------------------------------|---------------|
| ER/2017/20026 | Rev.00 | Initial creation of document | Feb. 10, 2017 |
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1 GENERAL INFORMATION

1.1 Product description

| | | |
|-------------------------------|--|---|
| Product Name: | Phablet | |
| Brand Name: | HP | |
| Model No.: | HSTNH-F606V | |
| Model Difference: | N/A | |
| Product SW/HW version: | V04 / PV | |
| Radio SW/HW version: | N/A / PV | |
| Test SW Version: | N/A | |
| RF power setting in TEST SW: | N/A | |
| USB Type-C Cable: | Model No.: 836233-001, Supplier: Luxshare-ICT | |
| Earphone: | Model No.: EH001, Supplier: 1MORE | |
| USB-C to VGA: | Model No.: KSC0021, Supplier: BIZLINK INTERNATIONAL CORP | |
| USB-C to HDMI: | Model No.: KSC0012, Supplier: BIZLINK INTERNATIONAL CORP | |
| USB-C to DP: | Model No.: KSC0044, Supplier: BIZLINK INTERNATIONAL CORP | |
| Wireless Charger: | Model No.: TPA-M601, Supplier: Merry Electronics Co Ltd | |
| Docking Station: | Model No.: HSTNH-F601, Supplier: HP Inc. | |
| Adapters for Docking Station: | <ol style="list-style-type: none"> Model No.: HSTNN-CA40, Supplier: Chicony Power Technology Co., LTD. Model No.: HSTNN-LA40, Supplier: Lite-On Technology Corporation Model No.: HSTNN-DA40, Supplier: DELTA ELECTRONICS INC Model No.: HSTNN-AA44; Supplier: Acbel Polytech Inc. | |
| Power Supply: | 3.85Vdc from Rechargeable Li-polymer Battery or 5.3V / 5.25V from AC/DC Adapter | |
| | Battery: | Model No.: HSTNH-F606-DP, Supplier: DYNAPACK INTERNATIONAL TECHNOLOGY CORP |
| | Adapter: | <ol style="list-style-type: none"> Model No.: WAD005, Supplier: Acbel Polytech Inc. (10.6W, 5.3V) Model No.: TPN-AA01, Supplier: Acbel Polytech Inc. (15W, 5.25V) |

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1.2 Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22, 24, 27

ANSI / TIA / EIA 603-D-2010

KDB971168 D01 Power Meas license Digital System

KDB941225 of the Output power Procedure of (SAR Measurement Procedures for 3G Devices, WCDMA / HSPA) was used for EUT and Base station setting.

TS 151 010-1 is used to set, and measure the output power.

Note: All test items have been performed and record as per the above standards.

1.3 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803 (TAF code 0513)

FCC Registration Numbers are: 509634

1.4 Special Accessories

There are no special accessories used while test was conducted.

1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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2.5 Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Fixed Channel-Radiated)

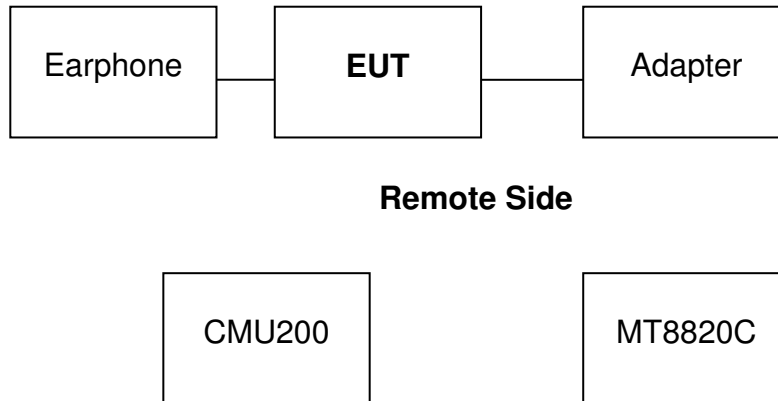


Table 2-1 Equipment Used in Tested System

| Item | Equipment | Mfr/Brand | Model/ Type No. | Series No. | Data Cable | Power Cord |
|------|--------------------------------------|-----------|--------------------|------------|------------|-------------|
| 1. | Universal Radio Communication Tester | R&S | CMU200 | 102189 | shielded | Un-shielded |
| 2. | Universal Radio Communication Tester | Anritsu | MT8820C | 6200307563 | shielded | Un-shielded |
| 3. | DC Power Supply | HP | E3640A | MY40005907 | shielded | Un-shielded |
| 4. | Earphone | HP | EH001 | N/A | N/A | N/A |

3 SUMMARY OF TEST RESULTS

| FCC Rules | Description Of Test | Result |
|---|--------------------------------------|-----------|
| §2.1053 §22.917(a) §24.238(a) §27.53(c)(2),(4) §27.50(c)(5) §27.53(a)(4) §27.53(g) §27.53(h) §27.53(m)(4) | Field Strength of Spurious Radiation | Compliant |

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4 DESCRIPTION OF TEST MODES

4.1 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, X(E1)Y(E2)Z(H) axis and antenna ports. The worst case was found as listed below. Following channel(s) was (were) selected for the final test as listed below:

| BAND | RADIATED EMISSION |
|--------------|-------------------|
| GSM 850 | E2-plan |
| GPRS 1900 | E2-plan |
| HSPA Band II | E2-plan |
| HSPA Band IV | E2-plan |
| LTE Band 2 | E2-plan |
| LTE Band 4 | E2-plan |
| LTE Band 5 | H-plan |
| LTE Band 7 | E1-plan |
| LTE Band 12 | H-plan |
| LTE Band 30 | E1-plan |

GSM/GPRS/EDGE/WCDMA/HSPA MODE

| TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | MODE |
|---------------------------------|--|--|--|
| Above 1GHz RADIATED EMISSION | 128 to 251 512 to 810 | 128, 190, 251 512, 661, 810 | GSM 850 GPRS 1900 |
| Above 1GHz RADIATED EMISSION | 4132 to 4233 1312 to 1513 9262 to 9538 | 4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583 | HSDPA Band II HSUPA Band IV WCDMA Band V |

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LTE MODE

| TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | CHANNEL BANDWIDTH | MODULATION | MODE |
|------------------------------|-------------------|---------------------|-------------------|------------|-------------------------------|
| Above 1GHz RADIATED EMISSION | 18625 to 19175 | 18625, 18900, 19175 | 5MHz | QPSK | LTE B2 1 RB, 0 RB Offest |
| Above 1GHz RADIATED EMISSION | 19965 to 22385 | 19965, 20175, 22385 | 3MHz | 16QAM, | LTE B4 1 RB, 0 RB Offest |
| Above 1GHz RADIATED EMISSION | 20425 to 20625 | 20425, 20525, 20625 | 5MHz | QPSK | LTE B5 1 RB/ 0 RB Offest |
| Above 1GHz RADIATED EMISSION | 20775 to 21425 | 20775, 21100, 21425 | 5MHz | QPSK, | LTE B7 1 RB, 0 RB Offest |
| Above 1GHz RADIATED EMISSION | 23035 to 23155 | 23035, 23095, 23155 | 5MHz | 16QAM | LTE B12 1 RB, 24 RB Offest |
| Above 1GHz RADIATED EMISSION | 23755 to 23825 | 23755, 23790, 23825 | 5MHz | QPSK | LTE B30 1 RB, 0 RB Offest |

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5 MEASUREMENT UNCERTAINTY

| Test Items | Uncertainty |
|---|-----------------------------|
| AC Power Line Conducted Emission | +/- 2.586 dB |
| Peak Output Power | +/- 0.84 dB |
| 6dB Bandwidth | +/- 51.33 Hz |
| 100 KHz Bandwidth Of Frequency Band Edges | +/- 0.84 dB |
| Peak Power Density | +/- 1.3 dB |
| Temperature | +/- 0.65 °C |
| Humidity | +/- 4.6 % |
| DC / AC Power Source | DC= +/- 0.13%, AC= +/- 0.2% |

Radiated Spurious Emission:

| | |
|--|----------------------------|
| Measurement uncertainty (Polarization : Vertical) | 9kHz – 30MHz: +/- 2.87 dB |
| | 30MHz - 180MHz: +/- 3.37dB |
| | 180MHz -417MHz: +/- 3.19dB |
| | 0.417GHz-1GHz: +/- 3.19dB |
| | 1GHz - 18GHz: +/- 4.04dB |
| | 18GHz - 40GHz: +/- 4.04dB |

| | |
|--|----------------------------|
| Measurement uncertainty (Polarization : Horizontal) | 9kHz – 30MHz: +/- 2.87 dB |
| | 30MHz - 167MHz: +/- 4.22dB |
| | 167MHz -500MHz: +/- 3.44dB |
| | 0.5GHz-1GHz: +/- 3.39dB |
| | 1GHz - 18GHz: +/- 4.08dB |
| | 18GHz - 40GHz: +/- 4.08dB |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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6 RADIATED SPURIOUS EMISSION MEASUREMENT

6.1 Measurement Equipment Used:

| 966 Chamber | | | | | |
|------------------------------|-----------------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EMI Test Receiver | R&S | ESC17 | 100760 | 05/10/2016 | 05/09/2017 |
| Spectrum Analyzer | Agilent | E4446A | MY51100003 | 01/29/2016 | 01/28/2017 |
| Loop Antenna | ETS-Lindgren | 6502 | 148045 | 09/20/2016 | 09/19/2017 |
| Bilog Antenna | SCHWAZBECK | VULB9168 | 378 | 12/19/2016 | 12/18/2017 |
| Horn Antenna | Schwarzbeck | BBHA9120D | 1441 | 08/01/2016 | 07/31/2017 |
| Pre-Amplifier | Agilent | 8447D | 2944A07676 | 01/05/2017 | 01/04/2018 |
| Pre-Amplifier | EMC Instruments Corp. | EMC0126530 | 980038 | 01/05/2017 | 01/04/2018 |
| Turn Table | HD | DT420 | N/A | N.C.R | N.C.R |
| Antenna Tower | ChamPro | AM-BS-4500-B | 060776-ABS | N.C.R | N.C.R |
| Controller | ChamPro | EM1000 | 60776 | N.C.R | N.C.R |
| Low Loss Cable | Huber Suhner | 966_RX | 9 | 01/05/2017 | 01/04/2018 |
| 3m Site NSA | SGS | 966 chamber | N/A | 07/01/2016 | 06/30/2017 |
| Low Loss Cable | Huber Suhner | 966 TX | 1 | 01/05/2017 | 01/04/2018 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 184 | 12/12/2016 | 12/11/2017 |
| Pre-Amplifier | EMC Instruments Corp. | EMC184045 | 980135 | 01/05/2017 | 01/04/2018 |
| Radio Communication Analyzer | R&S | CMU200 | 102189 | 02/11/2016 | 02/10/2017 |
| Radio Communication Analyzer | Anritsu | MT8820C | 6201465317 | 01/03/2017 | 01/02/2018 |

NOTE: N.C.R refers to Not Calibrated Required.

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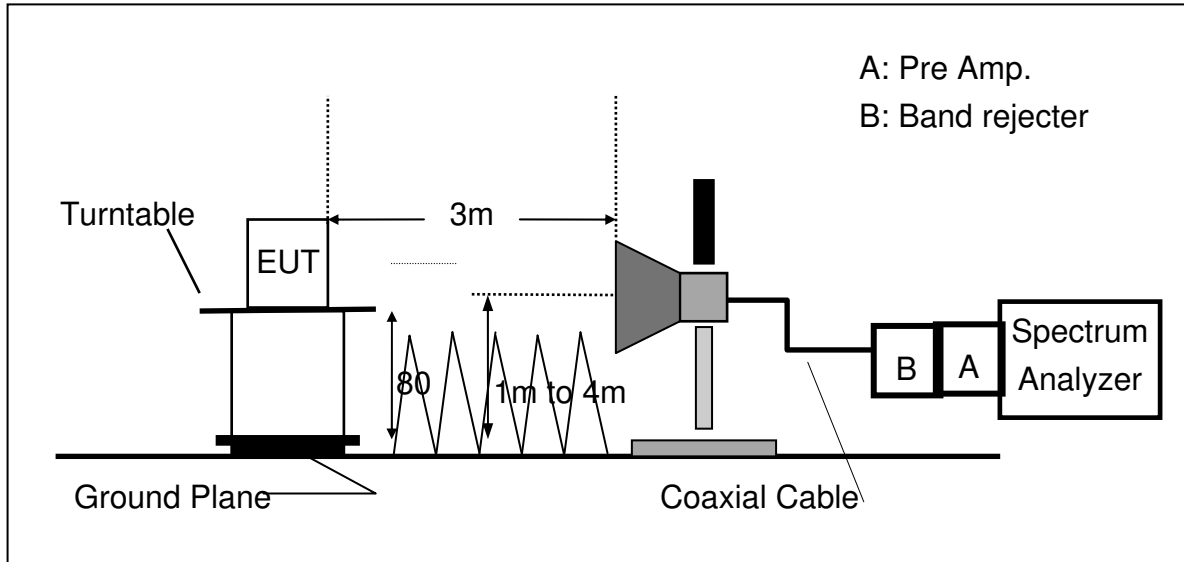
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6.2 Test SET-UP

Radiated Emission Test Set-UP Frequency Over 1 GHz



6.3 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.

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

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

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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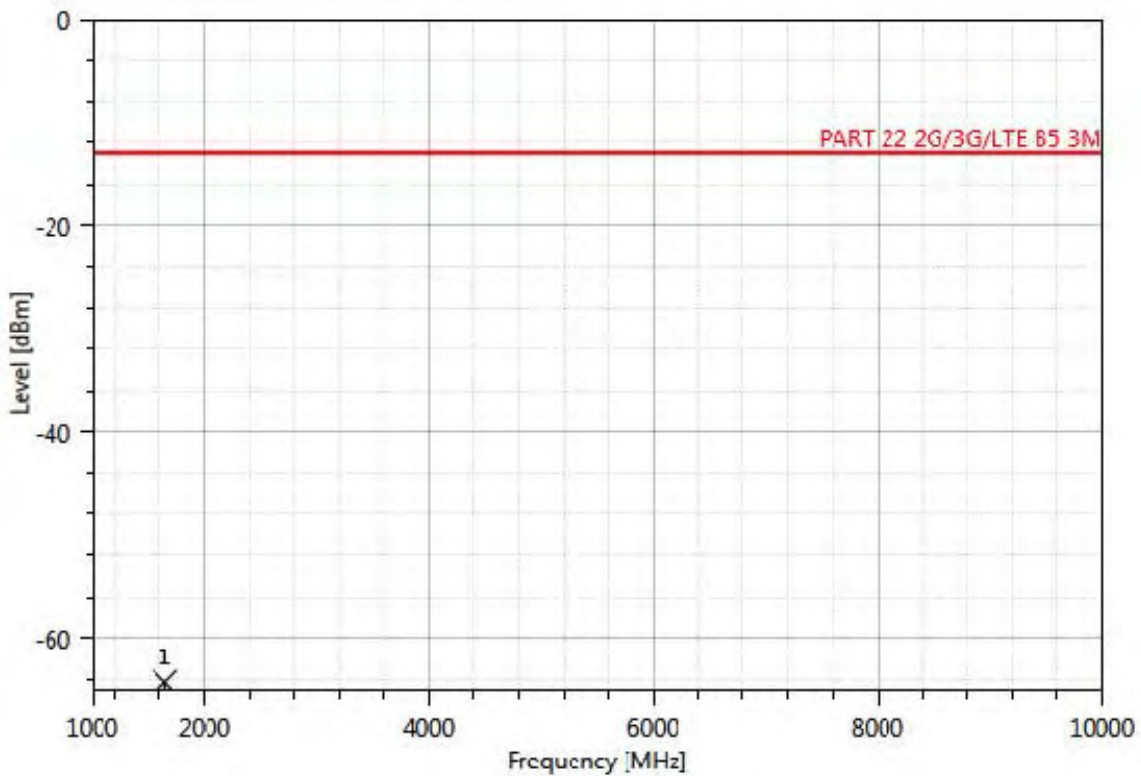
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6.4 Measurement Result

Radiated Spurious Emission Measurement Result: GPRS 850 Mode

| | | | |
|-------------------------|-----------|----------------------------|------------------|
| Operation Mode : | GSM 850 | Test Date : | 01/11/2017 |
| Fundamental Frequency : | 824.2 MHz | Temp. / Humi. : | 24 deg_C / 61 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Tin |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | ERP Level dBm | SG Output Level dBm | Antenna Gain dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|--------------|-----------------|-----------------------------|---------------------|---------------------------|------------------------|---------------------|---------------------|--------------|
| 1648.40 | H | Peak | -64.28 | -67.17 | 7.11 | -4.22 | -13.00 | -51.28 |

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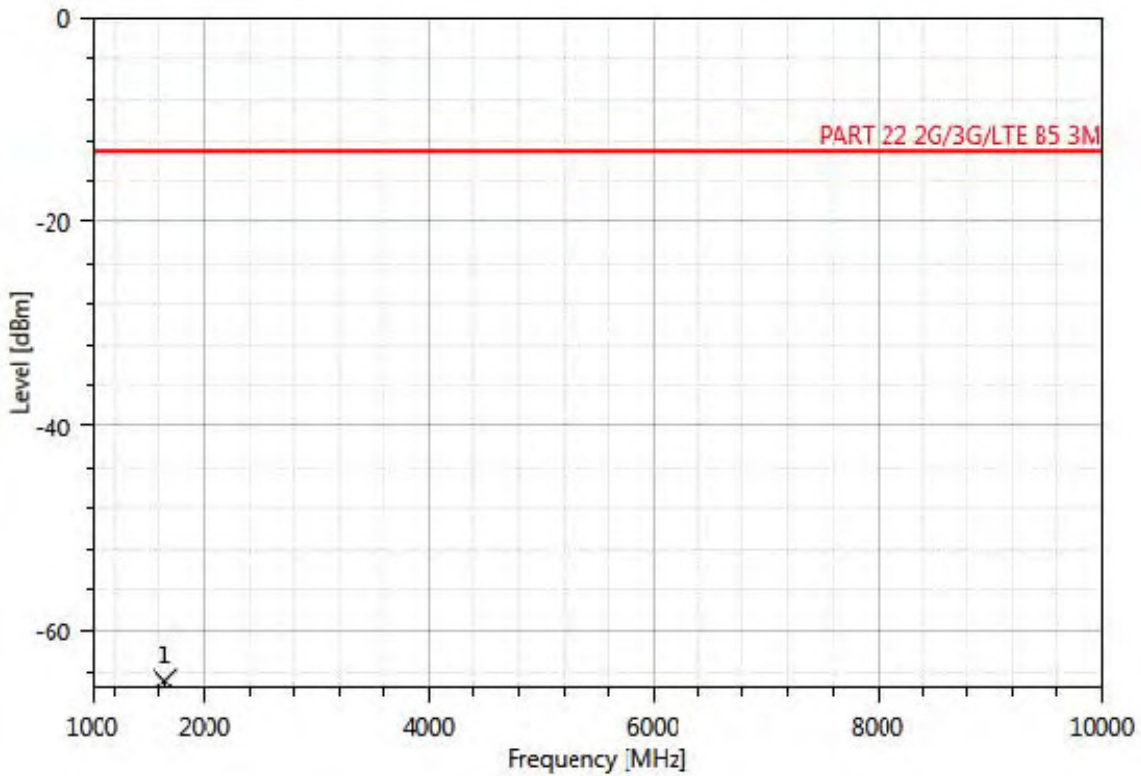
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| | | | |
|-------------------------|-----------|----------------------------|------------------|
| Operation Mode : | GSM 850 | Test Date : | 01/11/2017 |
| Fundamental Frequency : | 824.2 MHz | Temp. / Humi. : | 24 deg_C / 61 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Tin |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | ERP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|-----------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBd | dB | dBm | dB |
| 1648.40 | H | Peak | -64.86 | -67.75 | 7.11 | -4.22 | -13.00 | -51.86 |

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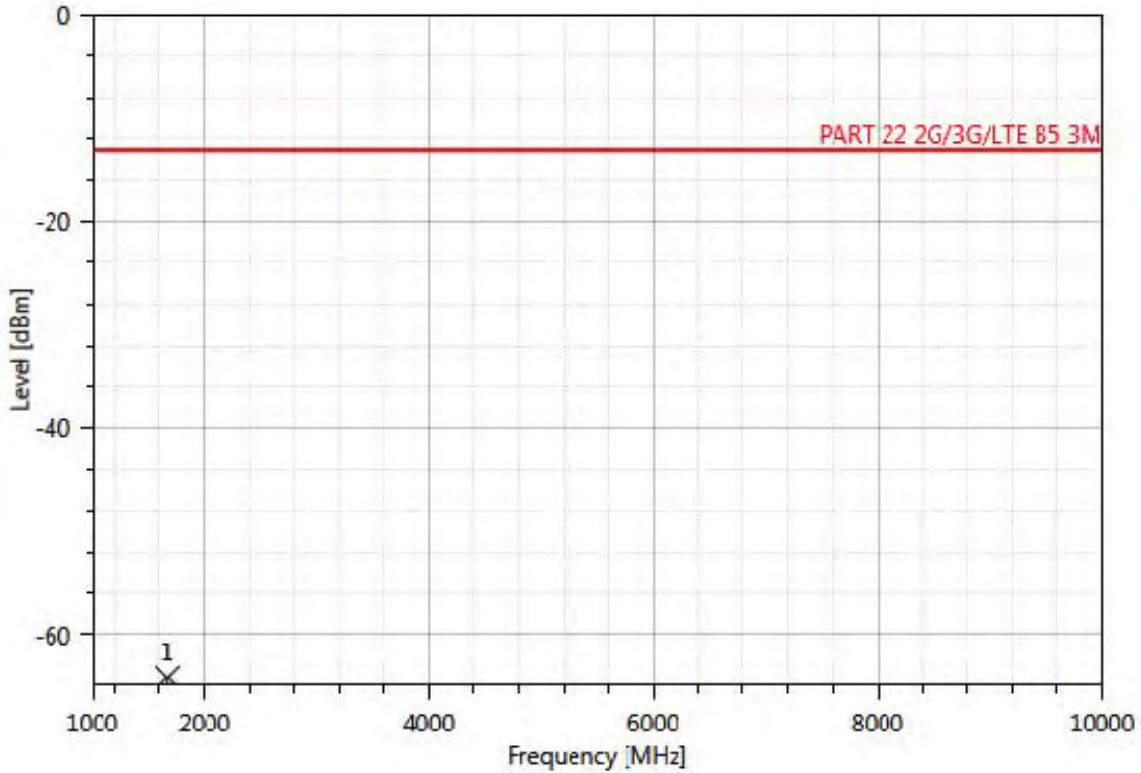
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| | | | |
|-------------------------|-----------|----------------------------|------------------|
| Operation Mode : | GSM 850 | Test Date : | 01/11/2017 |
| Fundamental Frequency : | 836.6 MHz | Temp. / Humi. : | 24 deg_C / 61 RH |
| Operation Band : | Tx CH MID | Test Engineer : | Tin |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | ERP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|-----------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBd | dB | dBm | dB |
| 1673.20 | H | Peak | -64.08 | -66.99 | 7.20 | -4.29 | -13.00 | -51.08 |

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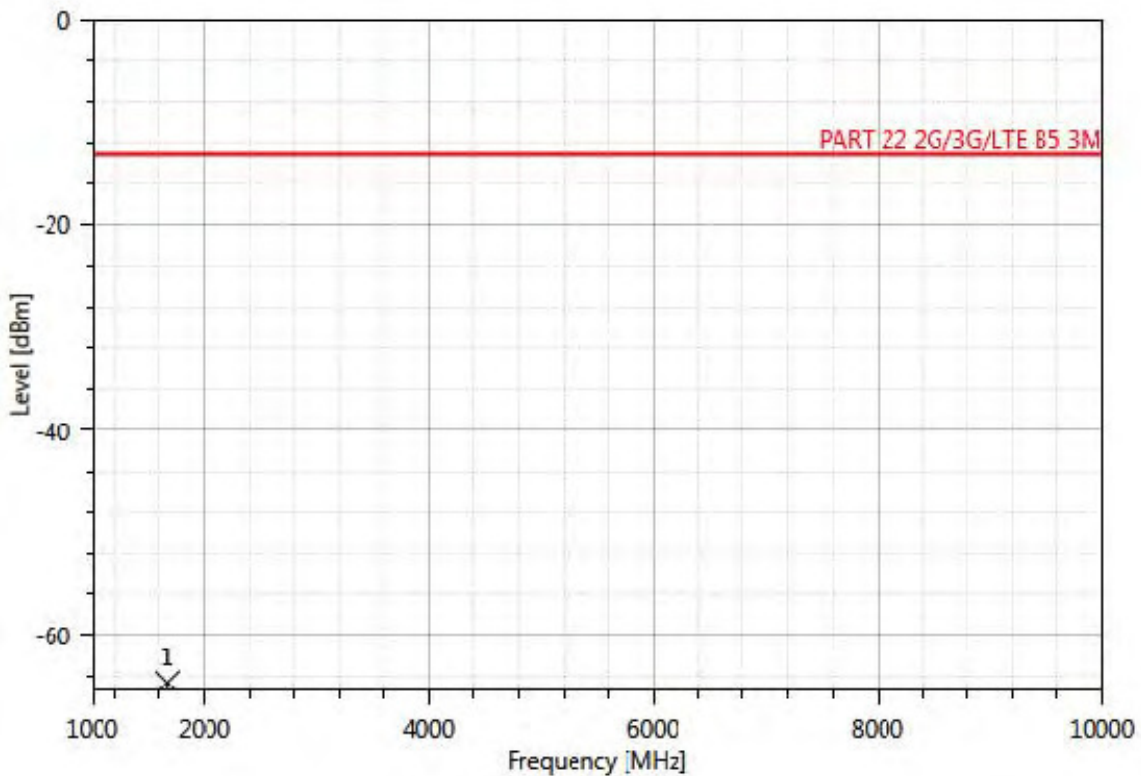
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| | | | |
|-------------------------|-----------|----------------------------|------------------|
| Operation Mode : | GSM 850 | Test Date : | 01/11/2017 |
| Fundamental Frequency : | 836.6 MHz | Temp. / Humi. : | 24 deg_C / 61 RH |
| Operation Band : | Tx CH MID | Test Engineer : | Tin |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | ERP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|-----------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBd | dB | dBm | dB |
| 1673.20 | H | Peak | -64.55 | -67.46 | 7.20 | -4.29 | -13.00 | -51.55 |

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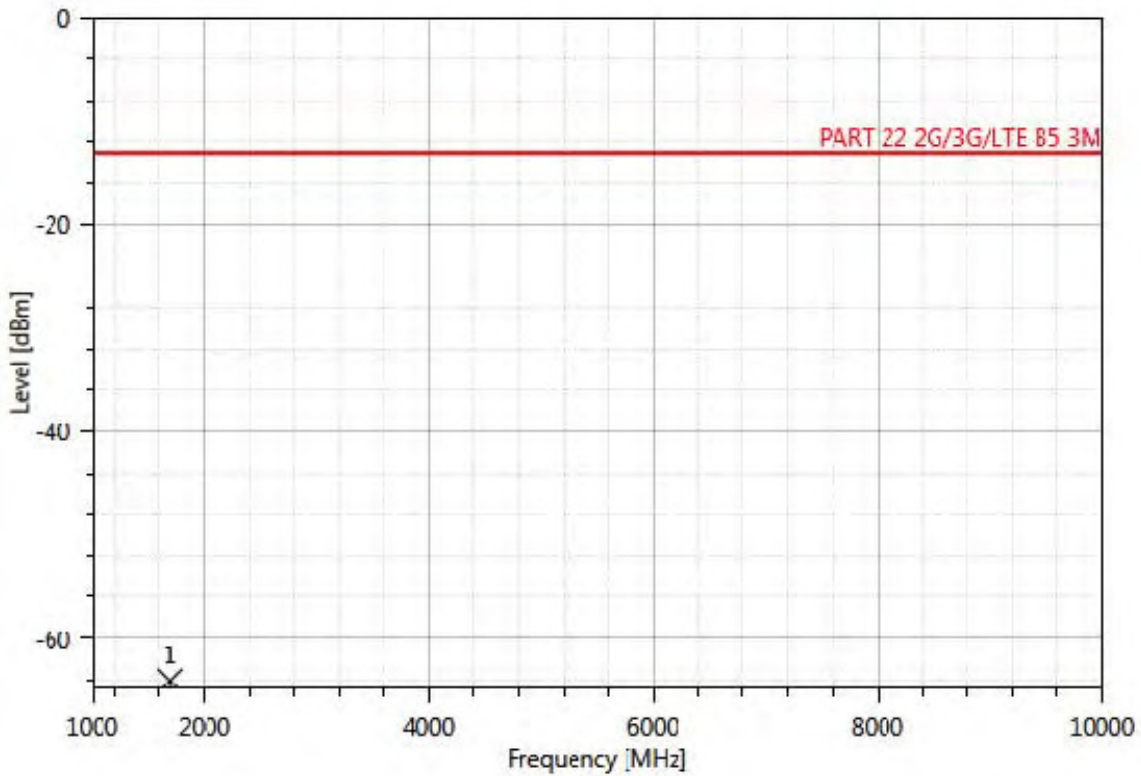
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| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | GSM 850 | Test Date : | 01/11/2017 |
| Fundamental Frequency : | 848.8 MHz | Temp. / Humi. : | 24 deg_C / 61 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Tin |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | ERP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|-----------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBd | dB | dBm | dB |
| 1697.60 | H | Peak | -64.10 | -67.07 | 7.28 | -4.31 | -13.00 | -51.10 |

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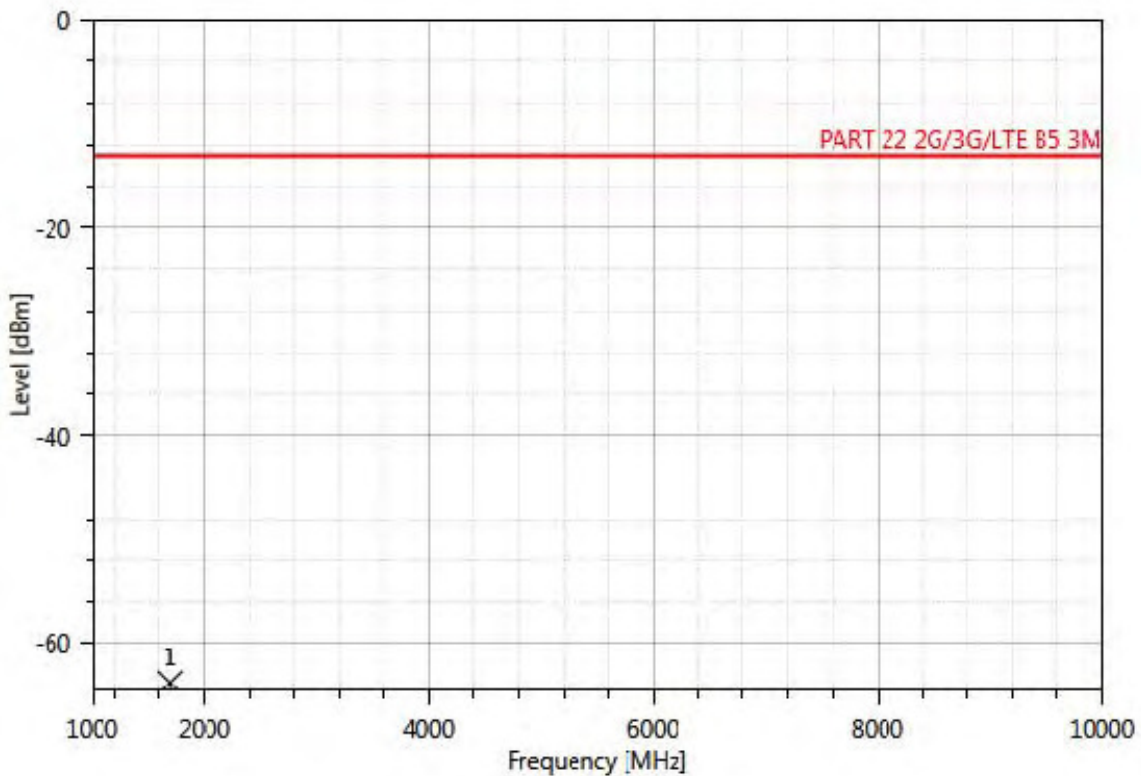
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| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | GSM 850 | Test Date : | 01/11/2017 |
| Fundamental Frequency : | 848.8 MHz | Temp. / Humi. : | 24 deg_C / 61 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Tin |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | ERP Level dBm | SG Output Level dBm | Antenna Gain dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|--------------|-----------------|-----------------------------|---------------------|---------------------------|------------------------|---------------------|---------------------|--------------|
| 1697.60 | H | Peak | -63.71 | -66.68 | 7.28 | -4.31 | -13.00 | -50.71 |

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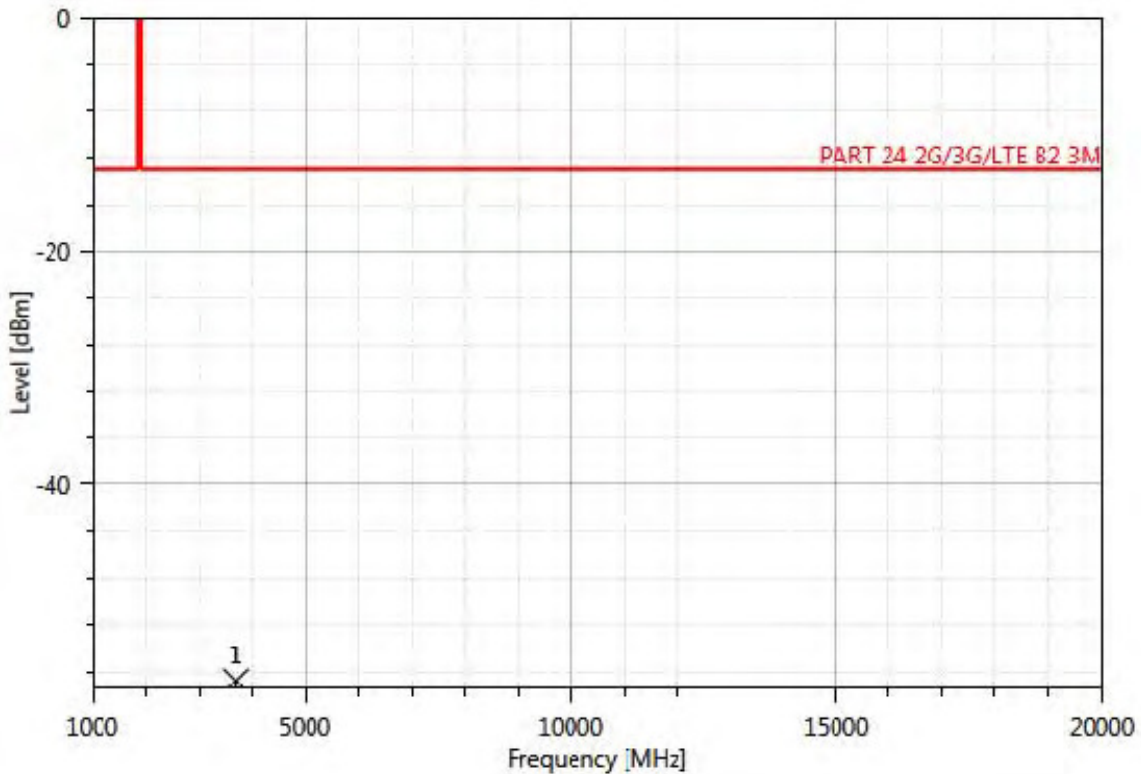
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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | GPRS 1900 | Test Date : | 01/11/2017 |
| Fundamental Frequency : | 1850.2 MHz | Temp. / Humi. : | 22 deg_C / 62 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Tin |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | EIRP Level dBm | SG Output Level dBm | Antenna Gain dBi | Cable Loss dB | Limit @3m dBm | Margin dB |
|--------------|-----------------|-----------------------------|----------------------|---------------------------|------------------------|---------------------|---------------------|--------------|
| 3700.40 | H | Peak | -56.79 | -62.65 | 12.44 | -6.58 | -13.00 | -43.79 |

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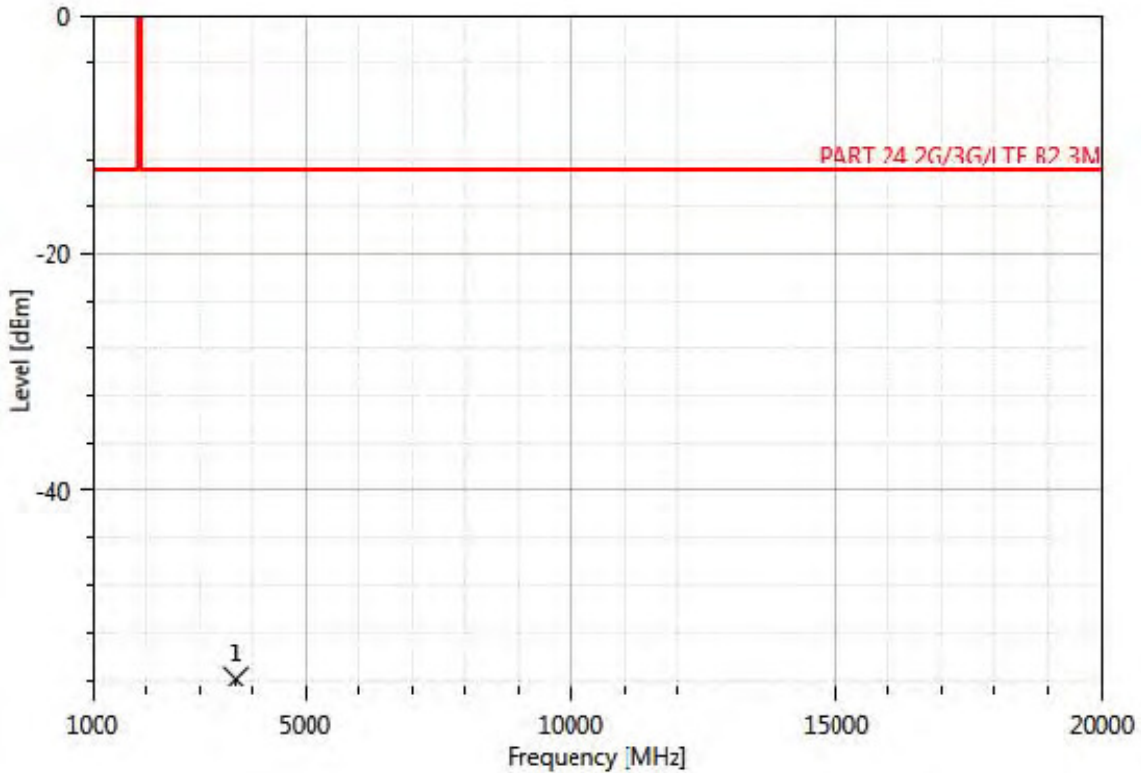
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| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | GPRS 1900 | Test Date : | 01/11/2017 |
| Fundamental Frequency : | 1850.2 MHz | Temp. / Humi. : | 22 deg_C / 62 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Tin |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | EIRP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|------------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBi | dB | dBm | dB |
| 3700.40 | H | Peak | -55.88 | -61.74 | 12.44 | -6.58 | -13.00 | -42.88 |

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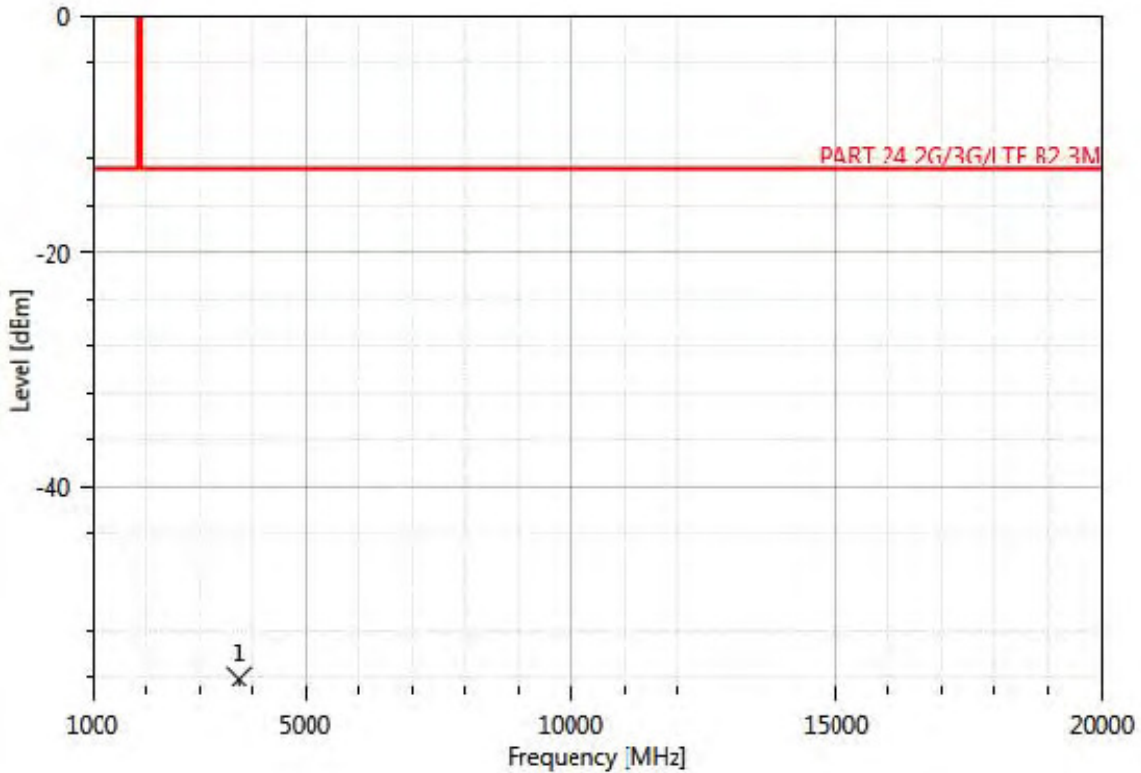
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| | | | |
|-------------------------|-----------|----------------------------|------------------|
| Operation Mode : | GPRS 1900 | Test Date : | 01/11/2017 |
| Fundamental Frequency : | 1880 MHz | Temp. / Humi. : | 22 deg_C / 62 RH |
| Operation Band : | Tx CH MID | Test Engineer : | Tin |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | EIRP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|------------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBi | dB | dBm | dB |
| 3760.00 | H | Peak | -56.19 | -62.04 | 12.45 | -6.60 | -13.00 | -43.19 |

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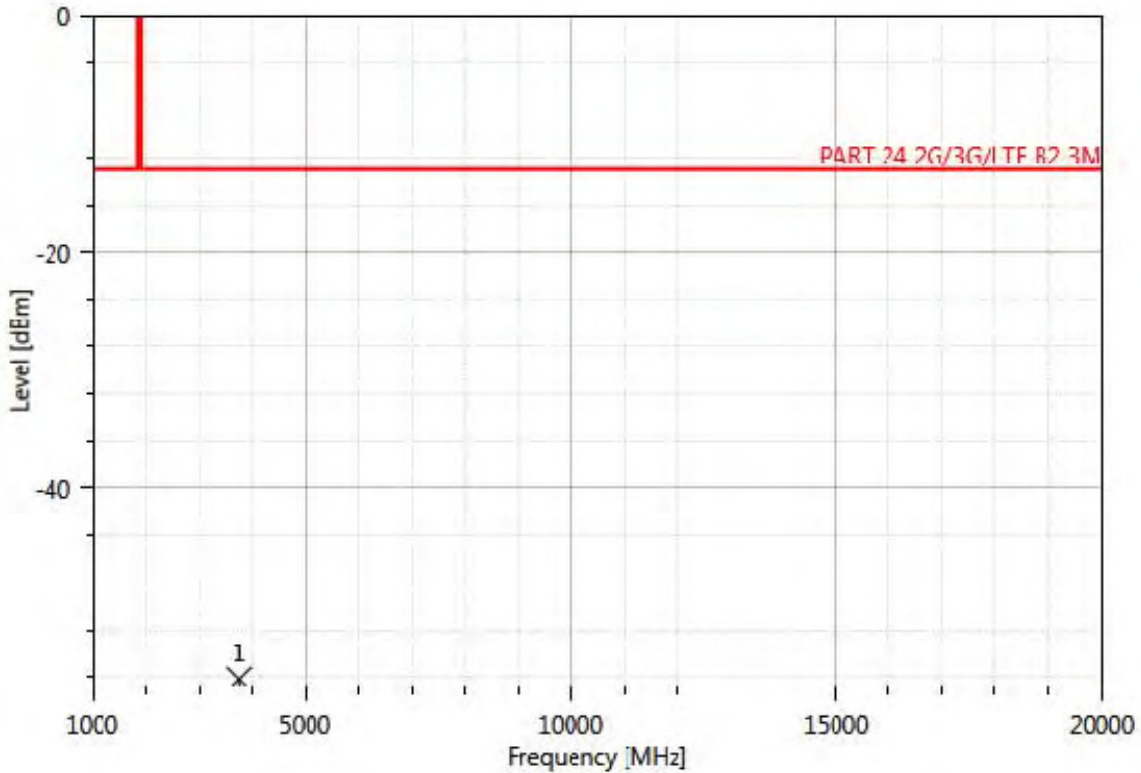
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| | | | |
|-------------------------|-----------|----------------------------|------------------|
| Operation Mode : | GPRS 1900 | Test Date : | 01/11/2017 |
| Fundamental Frequency : | 1880 MHz | Temp. / Humi. : | 22 deg_C / 62 RH |
| Operation Band : | Tx CH MID | Test Engineer : | Tin |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | EIRP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|------------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBi | dB | dBm | dB |
| 3760.00 | H | Peak | -56.13 | -61.98 | 12.45 | -6.60 | -13.00 | -43.13 |

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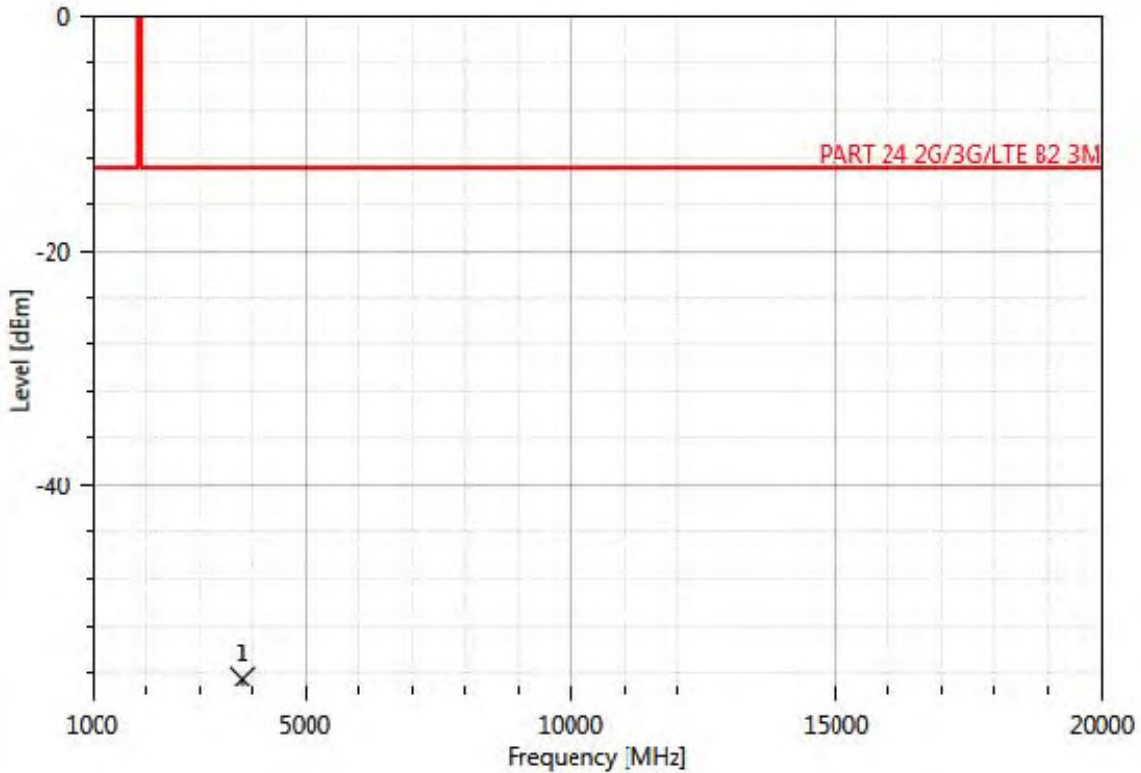
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| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | GPRS 1900 | Test Date : | 01/11/2017 |
| Fundamental Frequency : | 1909.8 MHz | Temp. / Humi. : | 22 deg_C / 62 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Tin |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | EIRP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|------------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBi | dB | dBm | dB |
| 3819.60 | H | Peak | -56.52 | -62.33 | 12.47 | -6.65 | -13.00 | -43.52 |

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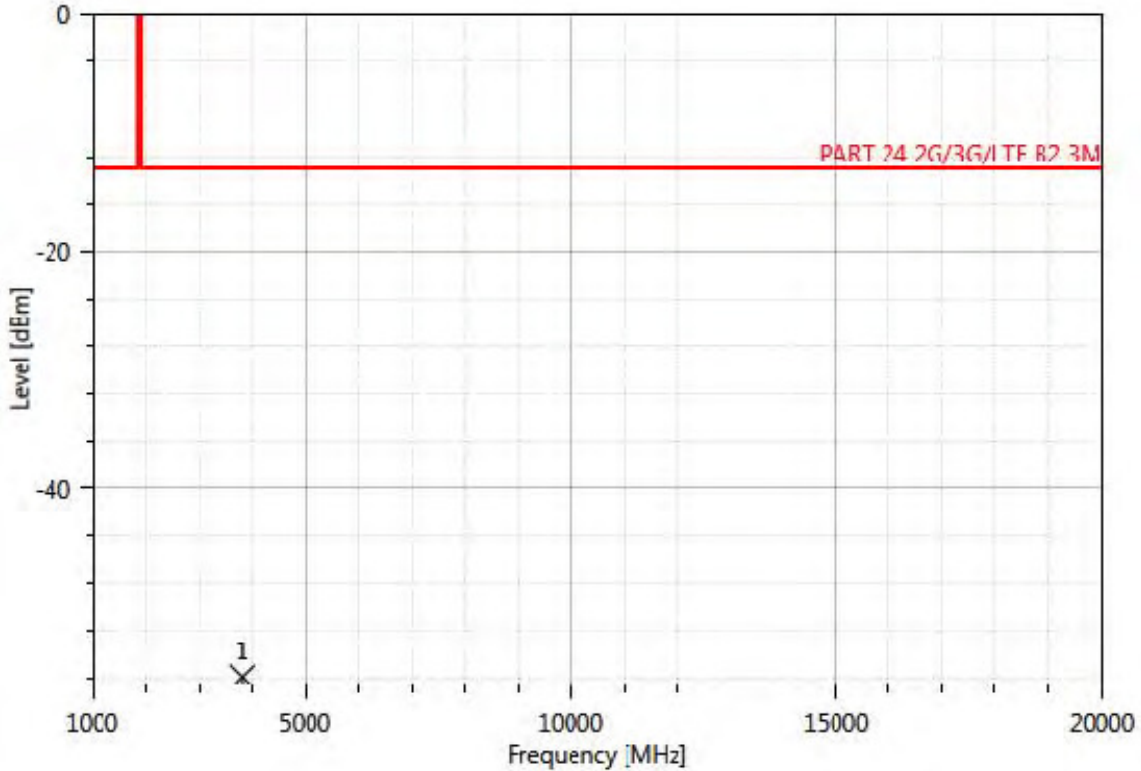
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| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | GPRS 1900 | Test Date : | 01/11/2017 |
| Fundamental Frequency : | 1909.8 MHz | Temp. / Humi. : | 22 deg_C / 62 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Tin |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | EIRP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|------------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBi | dB | dBm | dB |
| 3819.60 | H | Peak | -55.84 | -61.66 | 12.47 | -6.65 | -13.00 | -42.84 |

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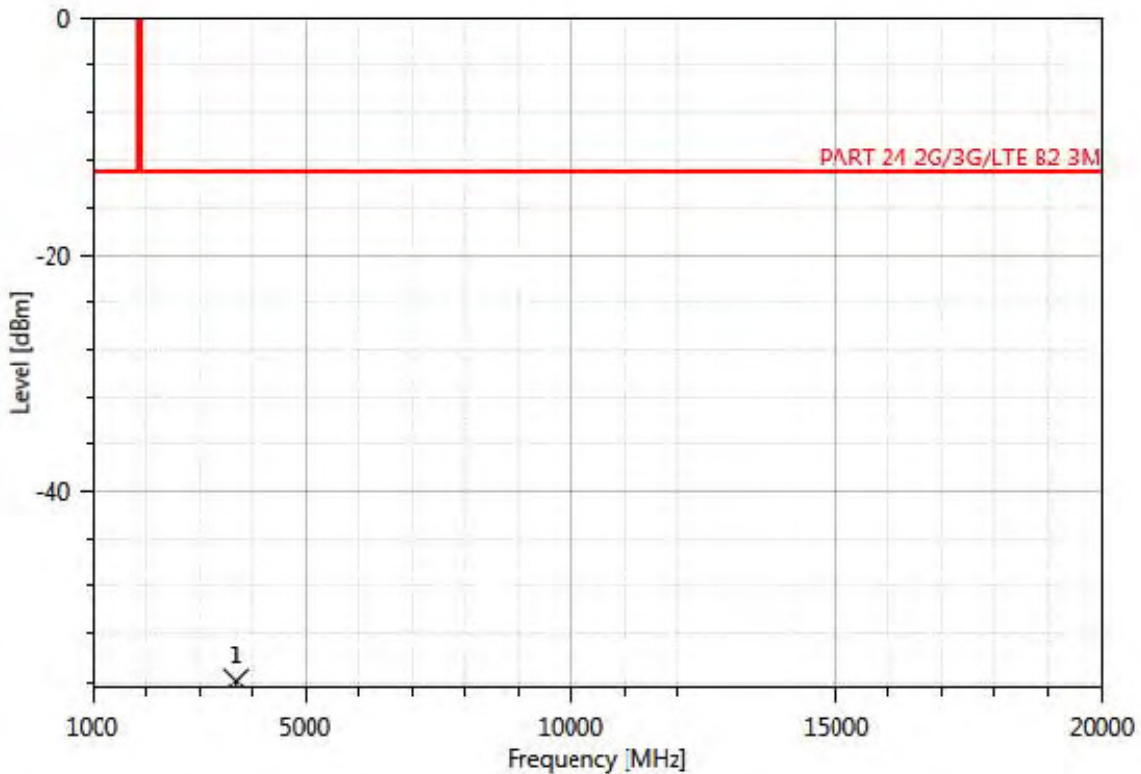
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Radiated Spurious Emission Measurement Result: HSDPA Band 2 Mode

| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | HSDPA B2 | Test Date : | 01/11/2017 |
| Fundamental Frequency : | 1852.4 MHz | Temp. / Humi. : | 22 deg_C / 62 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Tin |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | EIRP Level dBm | SG Output Level dBm | Antenna Gain dBi | Cable Loss dB | Limit @3m dBm | Margin dB |
|--------------|-----------------|-----------------------------|----------------------|---------------------------|------------------------|---------------------|---------------------|--------------|
| 3704.80 | H | Peak | -55.93 | -61.79 | 12.44 | -6.58 | -13.00 | -42.93 |

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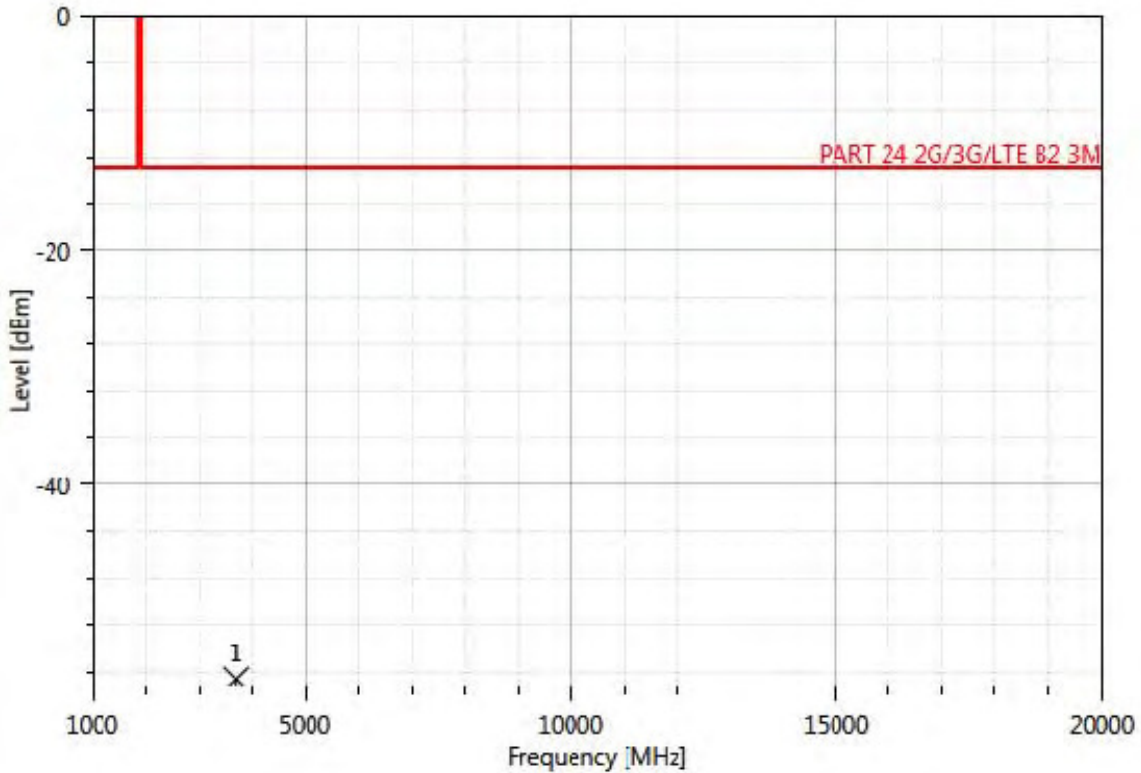
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| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | HSDPA B2 | Test Date : | 01/11/2017 |
| Fundamental Frequency : | 1852.4 MHz | Temp. / Humi. : | 22 deg_C / 62 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Tin |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | EIRP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|------------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBi | dB | dBm | dB |
| 3704.80 | H | Peak | -56.58 | -62.44 | 12.44 | -6.58 | -13.00 | -43.58 |

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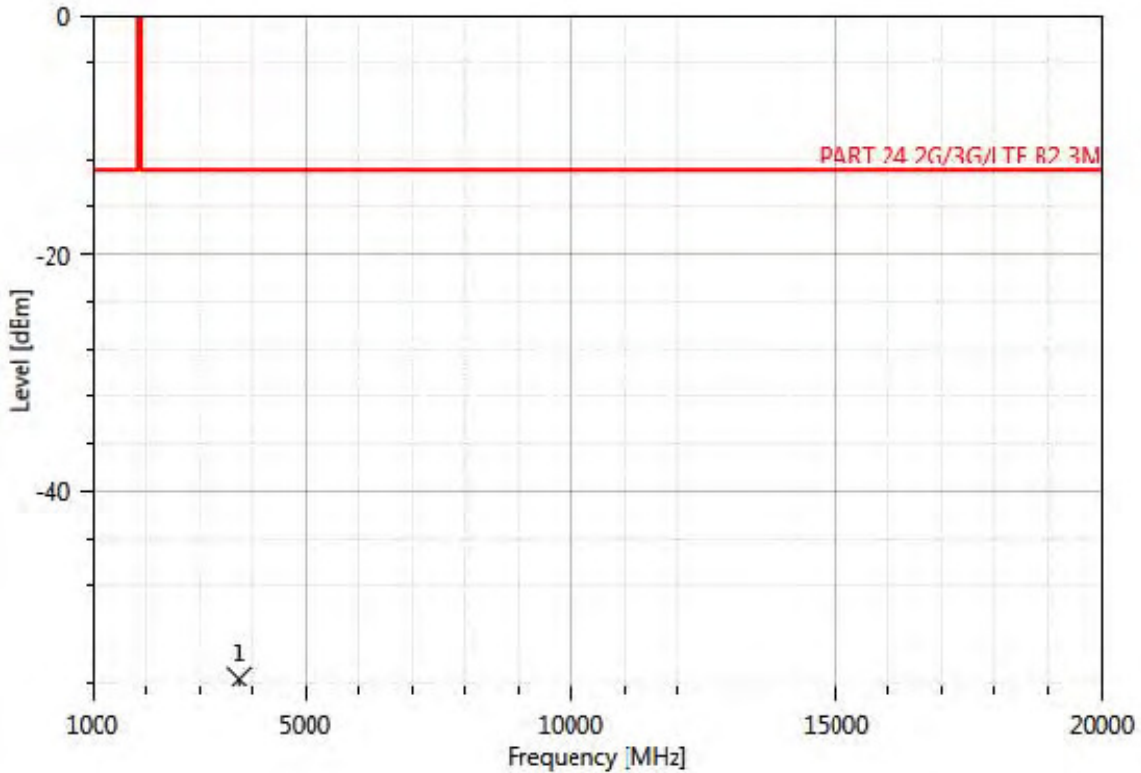
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| | | | |
|-------------------------|-----------|----------------------------|------------------|
| Operation Mode : | HSDPA B2 | Test Date : | 01/11/2017 |
| Fundamental Frequency : | 1880 MHz | Temp. / Humi. : | 22 deg_C / 62 RH |
| Operation Band : | Tx CH MID | Test Engineer : | Tin |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | EIRP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|------------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBi | dB | dBm | dB |
| 3760.00 | H | Peak | -55.71 | -61.56 | 12.45 | -6.60 | -13.00 | -42.71 |

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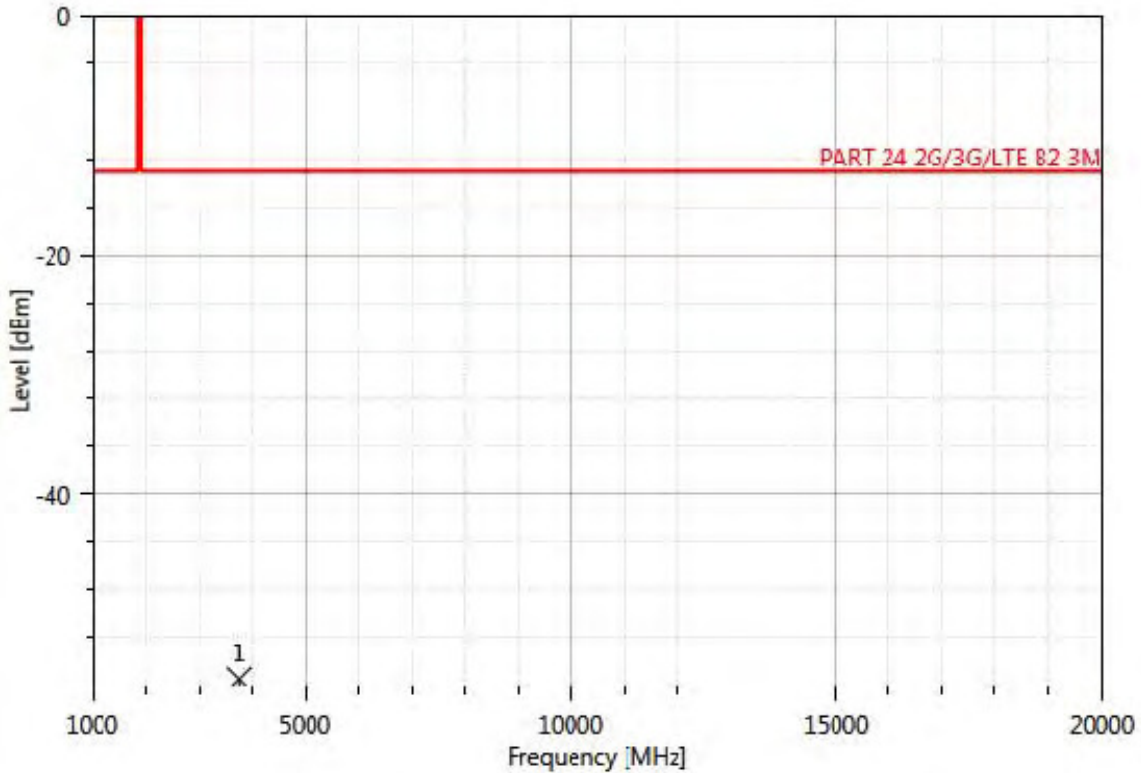
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| | | | |
|-------------------------|-----------|----------------------------|------------------|
| Operation Mode : | HSDPA B2 | Test Date : | 01/11/2017 |
| Fundamental Frequency : | 1880 MHz | Temp. / Humi. : | 22 deg_C / 62 RH |
| Operation Band : | Tx CH MID | Test Engineer : | Tin |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | EIRP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|------------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBi | dB | dBm | dB |
| 3760.00 | H | Peak | -55.40 | -61.26 | 12.45 | -6.60 | -13.00 | -42.40 |

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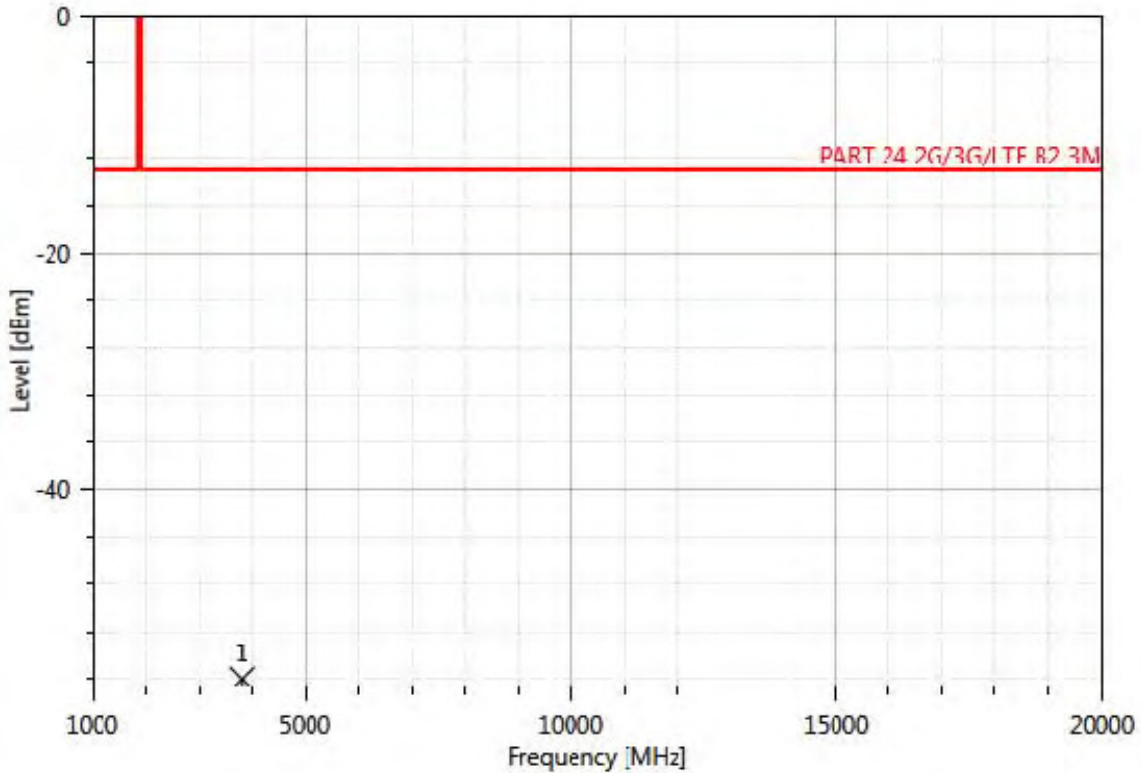
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| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | HSDPA B2 | Test Date : | 01/11/2017 |
| Fundamental Frequency : | 1907.6 MHz | Temp. / Humi. : | 22 deg_C / 62 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Tin |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | EIRP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|------------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBi | dB | dBm | dB |
| 3815.20 | H | Peak | -55.95 | -61.78 | 12.46 | -6.63 | -13.00 | -42.95 |

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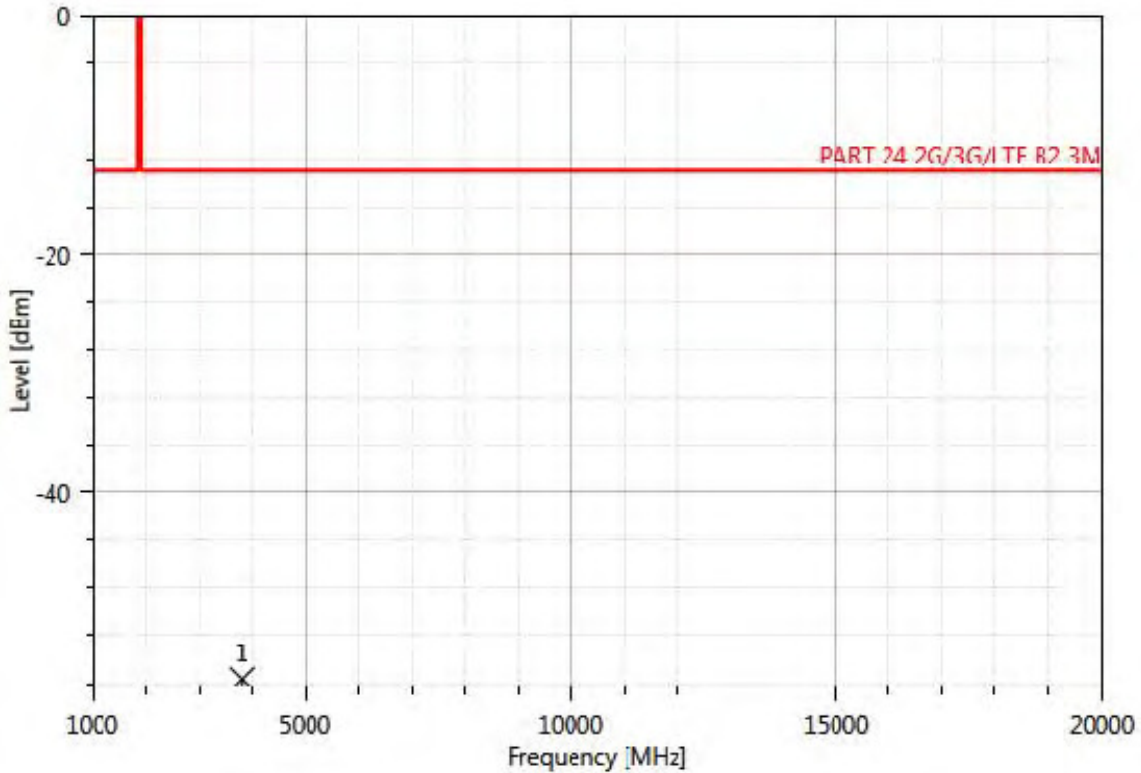
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|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | HSDPA B2 | Test Date : | 01/11/2017 |
| Fundamental Frequency : | 1907.6 MHz | Temp. / Humi. : | 22 deg_C / 62 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Tin |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | EIRP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|------------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBi | dB | dBm | dB |
| 3815.20 | H | Peak | -55.61 | -61.44 | 12.46 | -6.63 | -13.00 | -42.61 |

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Radiated Spurious Emission Measurement Result: HSUPA Band 4 Mode

| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | HSUPA B4 | Test Date : | 01/11/2017 |
| Fundamental Frequency : | 1712.4 MHz | Temp. / Humi. : | 22 deg_C / 62 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Tin |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | EIRP Level dBm | SG Output Level dBm | Antenna Gain dBi | Cable Loss dB | Limit @3m dBm | Margin dB |
|--------------|-----------------|-----------------------------|----------------------|---------------------------|------------------------|---------------------|---------------------|--------------|
| 3424.80 | H | Peak | -57.95 | -63.99 | 12.27 | -6.23 | -13.00 | -44.95 |

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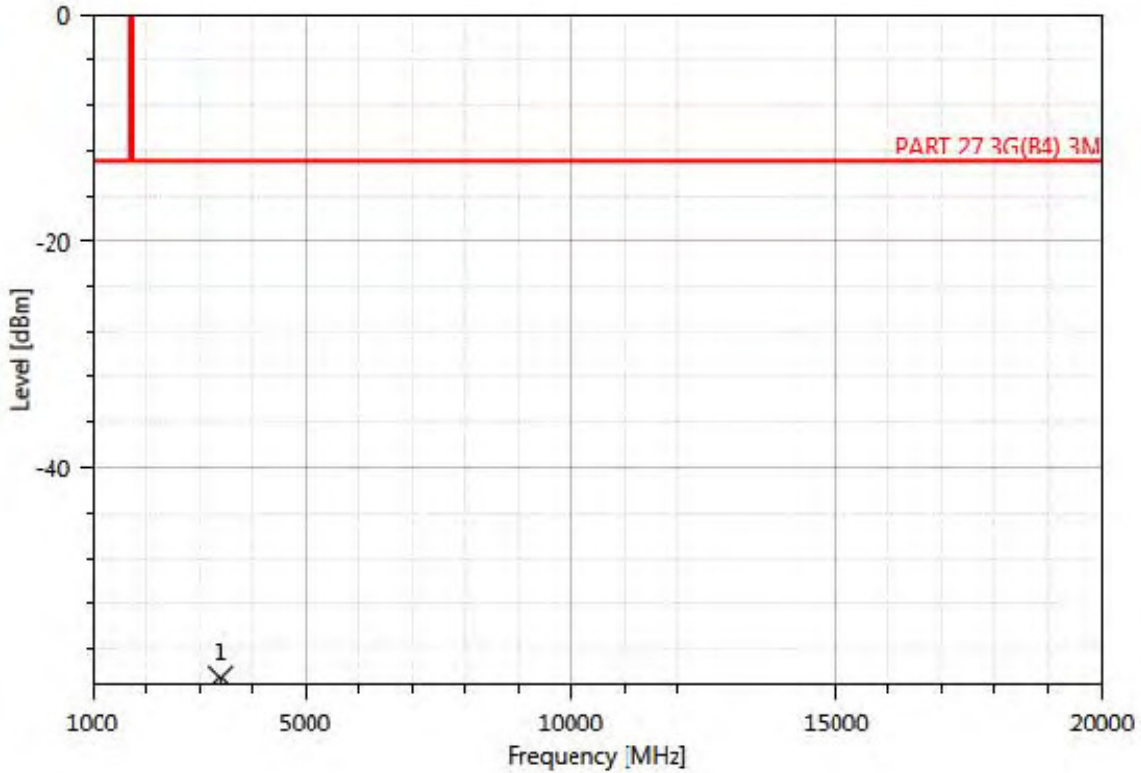
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| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | HSUPA B4 | Test Date : | 01/11/2017 |
| Fundamental Frequency : | 1712.4 MHz | Temp. / Humi. : | 22 deg_C / 62 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Tin |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | EIRP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|------------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBi | dB | dBm | dB |
| 3424.80 | H | Peak | -58.57 | -64.61 | 12.27 | -6.23 | -13.00 | -45.57 |

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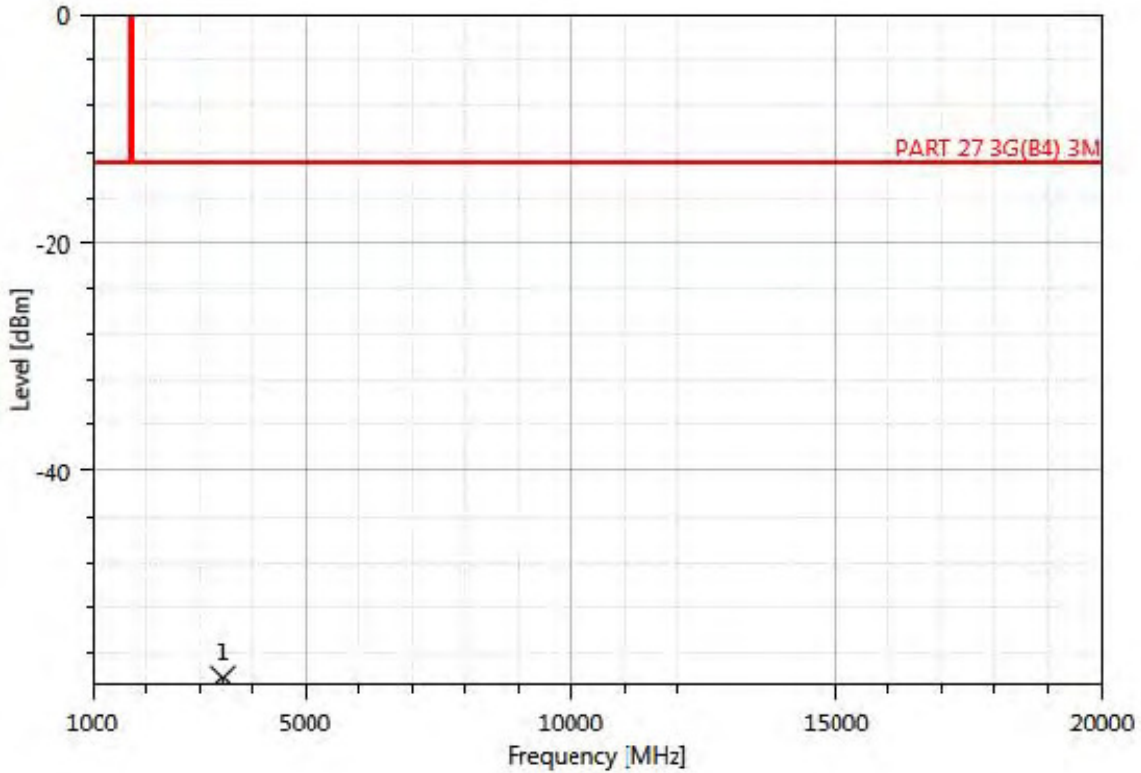
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| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | HSUPA B4 | Test Date : | 01/11/2017 |
| Fundamental Frequency : | 1732.6 MHz | Temp. / Humi. : | 22 deg_C / 62 RH |
| Operation Band : | Tx CH MID | Test Engineer : | Tin |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | EIRP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|------------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBi | dB | dBm | dB |
| 3465.20 | H | Peak | -58.10 | -64.19 | 12.34 | -6.25 | -13.00 | -45.10 |

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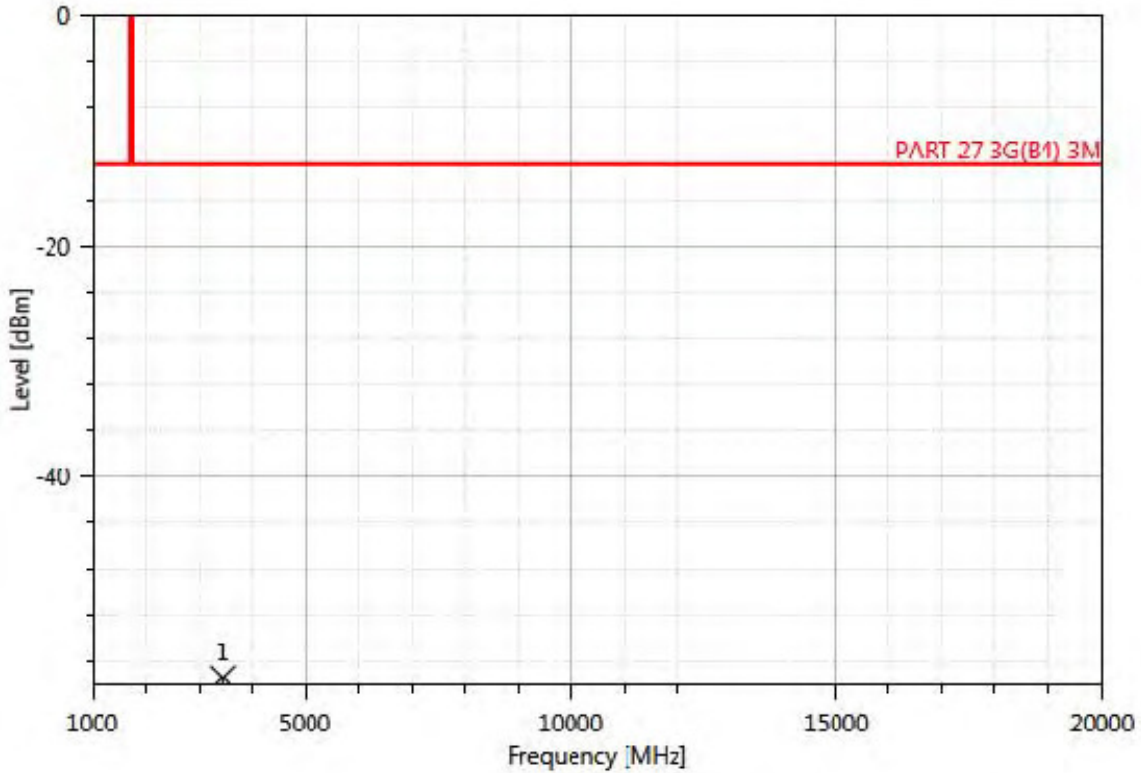
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| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | HSUPA B4 | Test Date : | 01/11/2017 |
| Fundamental Frequency : | 1732.6 MHz | Temp. / Humi. : | 22 deg_C / 62 RH |
| Operation Band : | Tx CH MID | Test Engineer : | Tin |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | EIRP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|------------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBi | dB | dBm | dB |
| 3465.20 | H | Peak | -57.50 | -63.60 | 12.34 | -6.25 | -13.00 | -44.50 |

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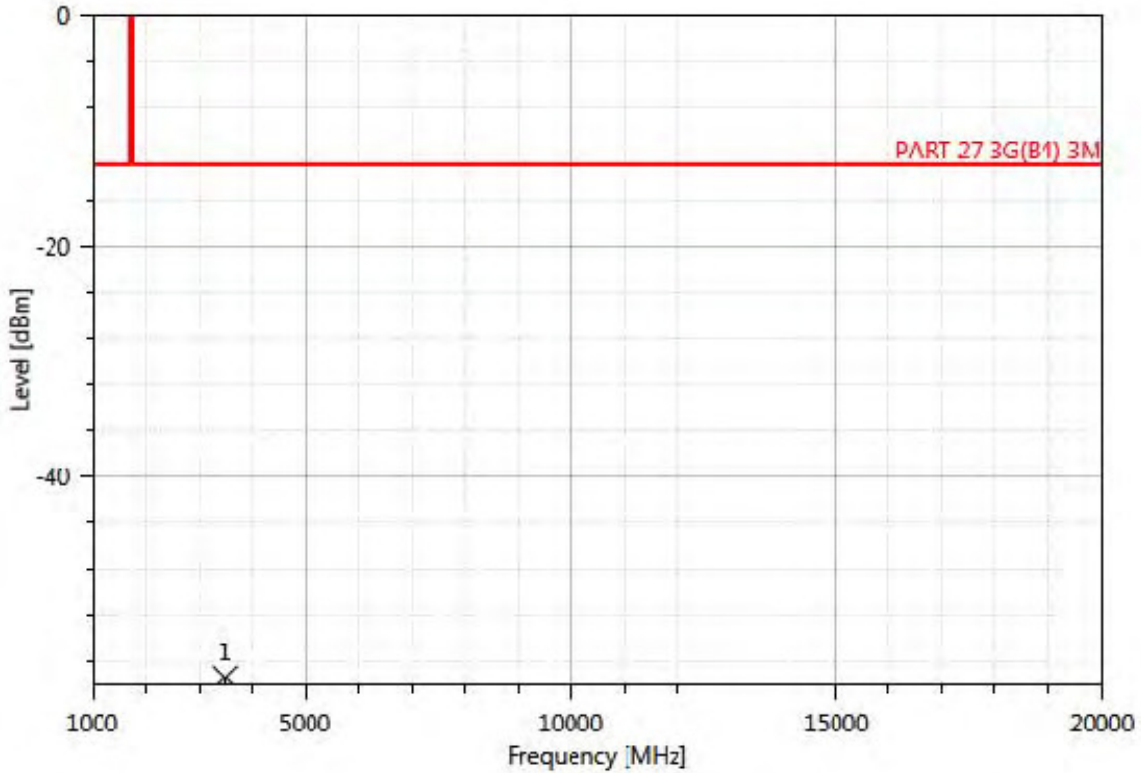
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| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | HSUPA B4 | Test Date : | 01/11/2017 |
| Fundamental Frequency : | 1752.6 MHz | Temp. / Humi. : | 22 deg_C / 62 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Tin |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | EIRP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|------------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBi | dB | dBm | dB |
| 3505.20 | H | Peak | -57.48 | -63.41 | 12.40 | -6.47 | -13.00 | -44.48 |

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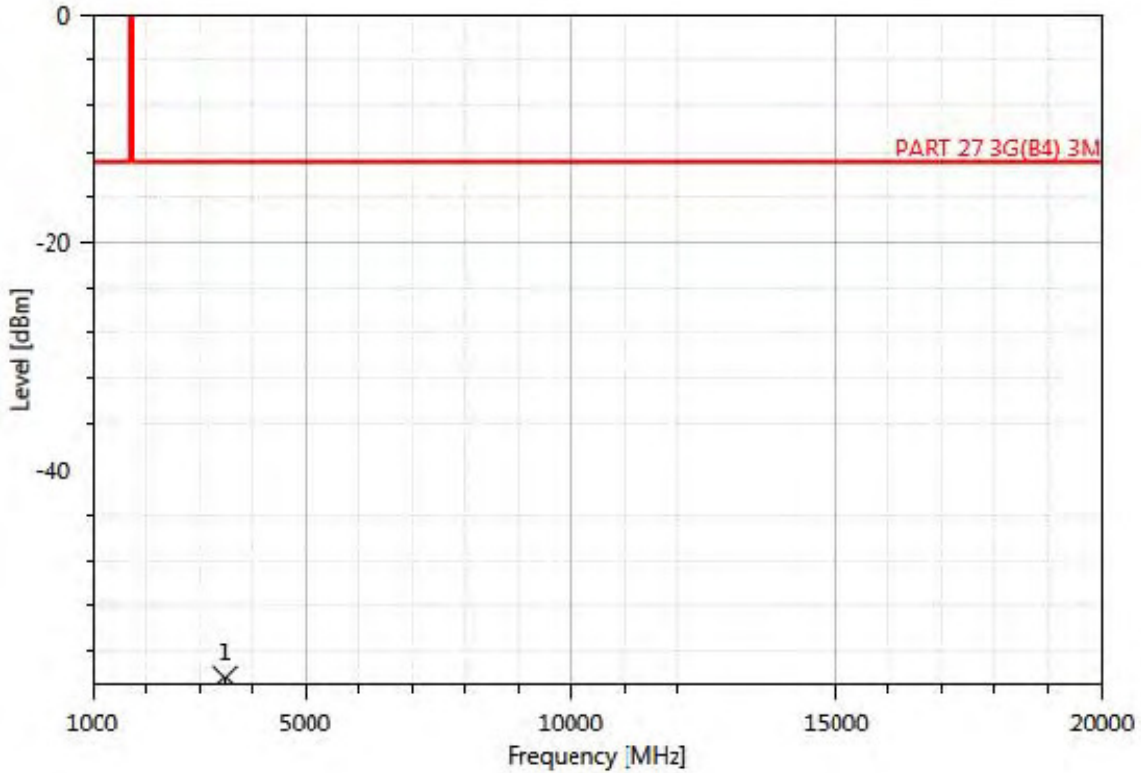
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| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | HSUPA B4 | Test Date : | 01/11/2017 |
| Fundamental Frequency : | 1752.6 MHz | Temp. / Humi. : | 22 deg_C / 62 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Tin |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | EIRP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|------------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBi | dB | dBm | dB |
| 3505.20 | H | Peak | -58.33 | -64.26 | 12.40 | -6.47 | -13.00 | -45.33 |

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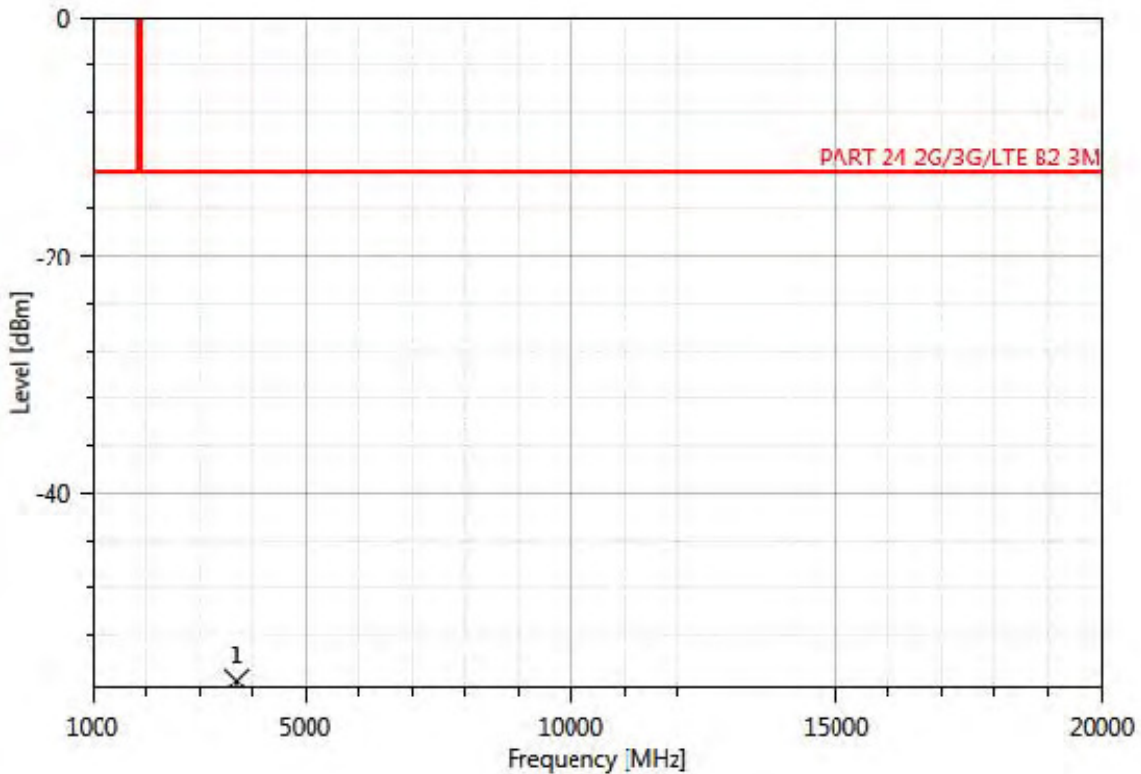
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Radiated Spurious Emission Measurement Result: LTE-Band 2 (The Worst Case)

| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | LTE B2 | Test Date : | 01/10/2017 |
| Fundamental Frequency : | 1857.5 MHz | Temp. / Humi. : | 22 deg_C / 61 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Tin |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | EIRP Level dBm | SG Output Level dBm | Antenna Gain dBi | Cable Loss dB | Limit @3m dBm | Margin dB |
|--------------|-----------------|-----------------------------|----------------------|---------------------------|------------------------|---------------------|---------------------|--------------|
| 3715.00 | H | Peak | -55.73 | -61.60 | 12.44 | -6.58 | -13.00 | -42.73 |

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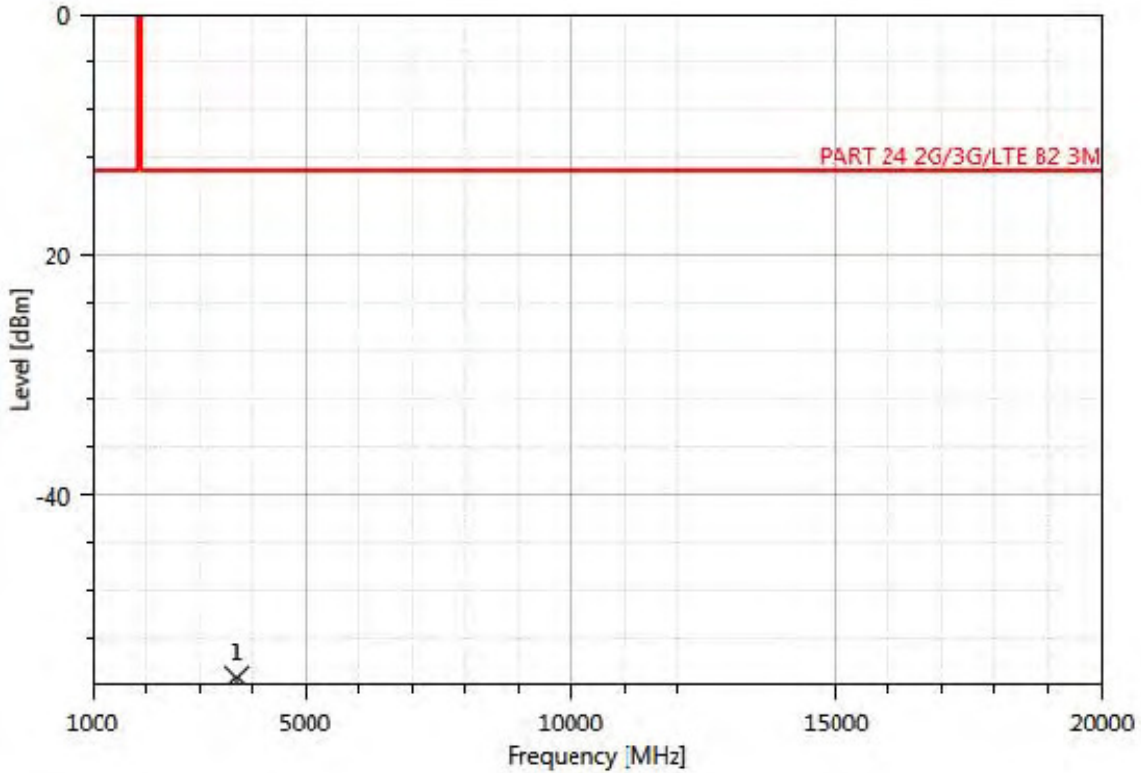
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| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | LTE B2 | Test Date : | 01/10/2017 |
| Fundamental Frequency : | 1857.5 MHz | Temp. / Humi. : | 22 deg_C / 61 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Tin |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | EIRP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|------------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBi | dB | dBm | dB |
| 3715.00 | H | Peak | -55.20 | -61.06 | 12.44 | -6.58 | -13.00 | -42.20 |

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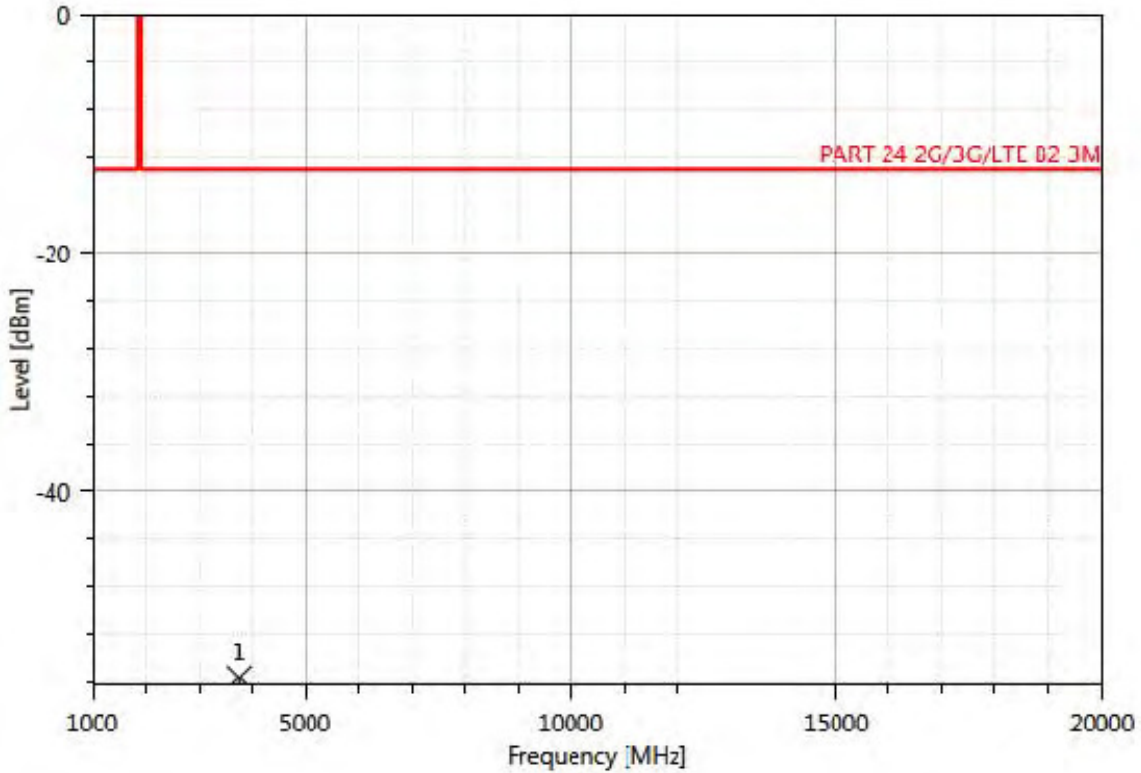
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| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | LTE B2 | Test Date : | 01/10/2017 |
| Fundamental Frequency : | 1880.0 MHz | Temp. / Humi. : | 22 deg_C / 61 RH |
| Operation Band : | Tx CH MID | Test Engineer : | Tin |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | EIRP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|------------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBi | dB | dBm | dB |
| 3760.00 | H | Peak | -55.60 | -61.46 | 12.45 | -6.60 | -13.00 | -42.60 |

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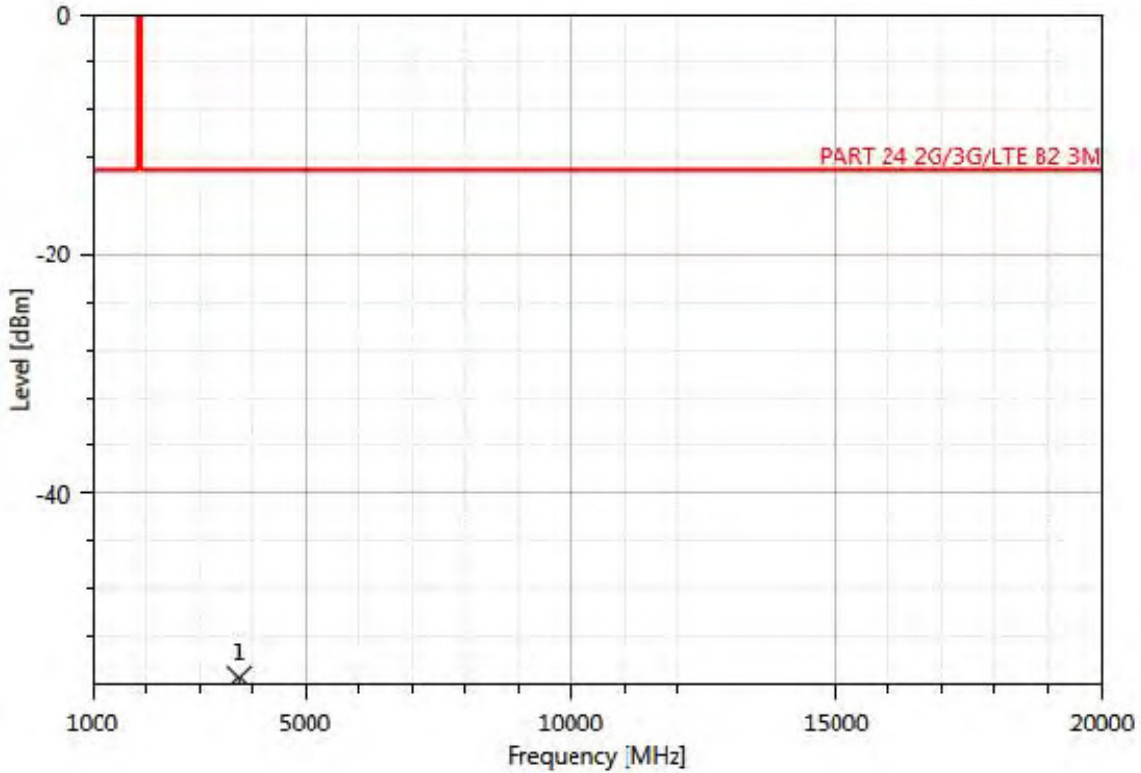
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Operation Mode : LTE B2 Test Date : 01/10/2017
 Fundamental Frequency : 1880.0 MHz Temp. / Humi. : 22 deg_C / 61 RH
 Operation Band : Tx CH MID Test Engineer : Tin
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



| Freq. | Note | Decetor Mode | EIRP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|------------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBi | dB | dBm | dB |
| 3760.00 | H | Peak | -55.38 | -61.24 | 12.45 | -6.60 | -13.00 | -42.38 |

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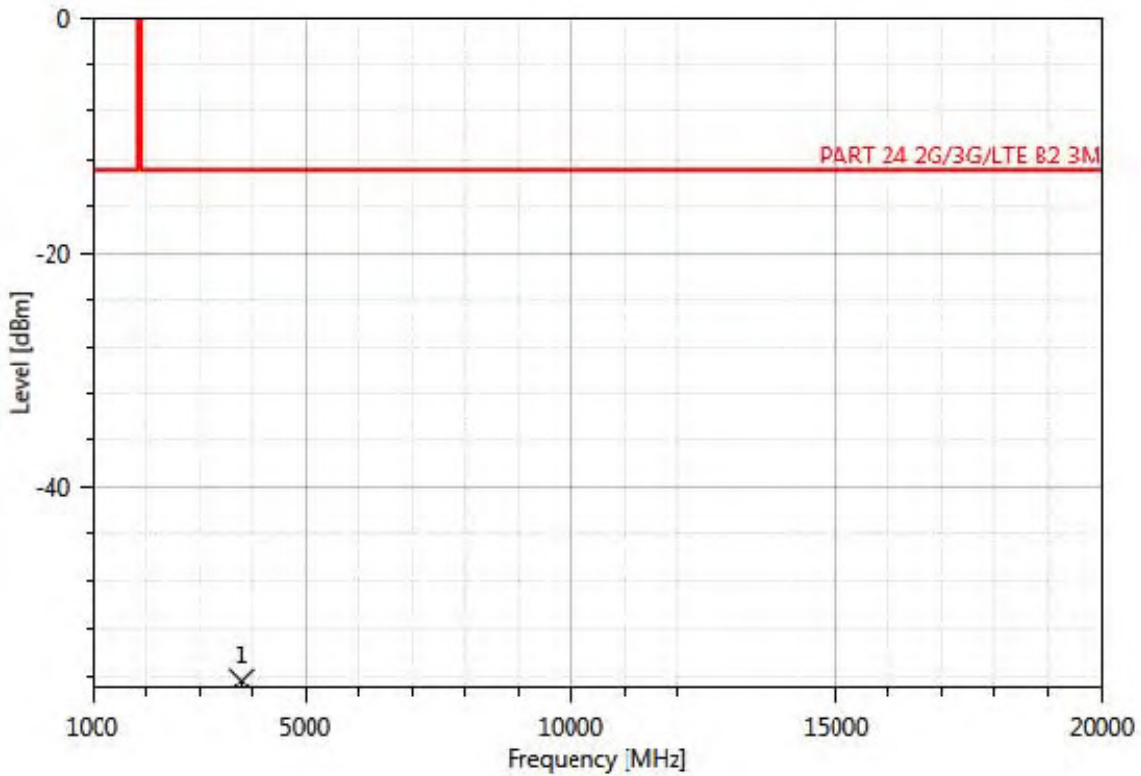
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| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | LTE B2 | Test Date : | 01/10/2017 |
| Fundamental Frequency : | 1902.5 MHz | Temp. / Humi. : | 22 deg_C / 61 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Tin |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | EIRP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|------------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBi | dB | dBm | dB |
| 3805.00 | H | Peak | -56.42 | -62.27 | 12.46 | -6.62 | -13.00 | -43.42 |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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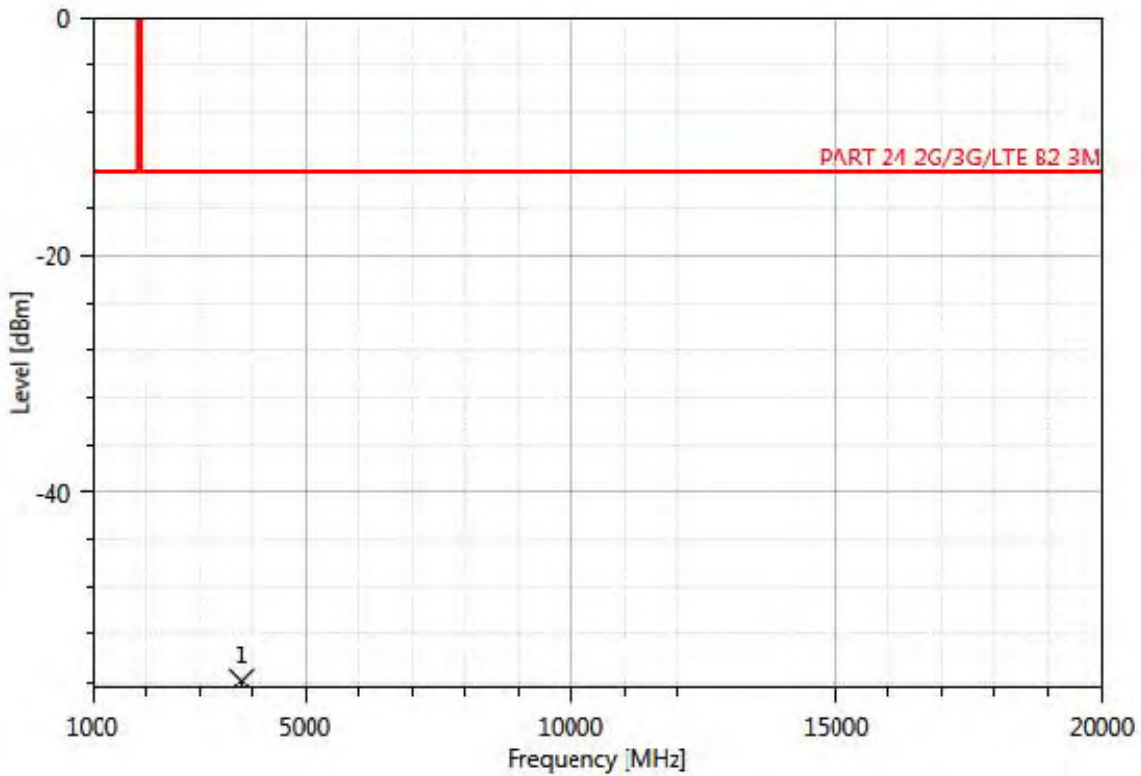
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| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | LTE B2 | Test Date : | 01/10/2017 |
| Fundamental Frequency : | 1902.5 MHz | Temp. / Humi. : | 22 deg_C / 61 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Tin |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | EIRP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|------------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBi | dB | dBm | dB |
| 3805.00 | H | Peak | -55.85 | -61.69 | 12.46 | -6.62 | -13.00 | -42.85 |

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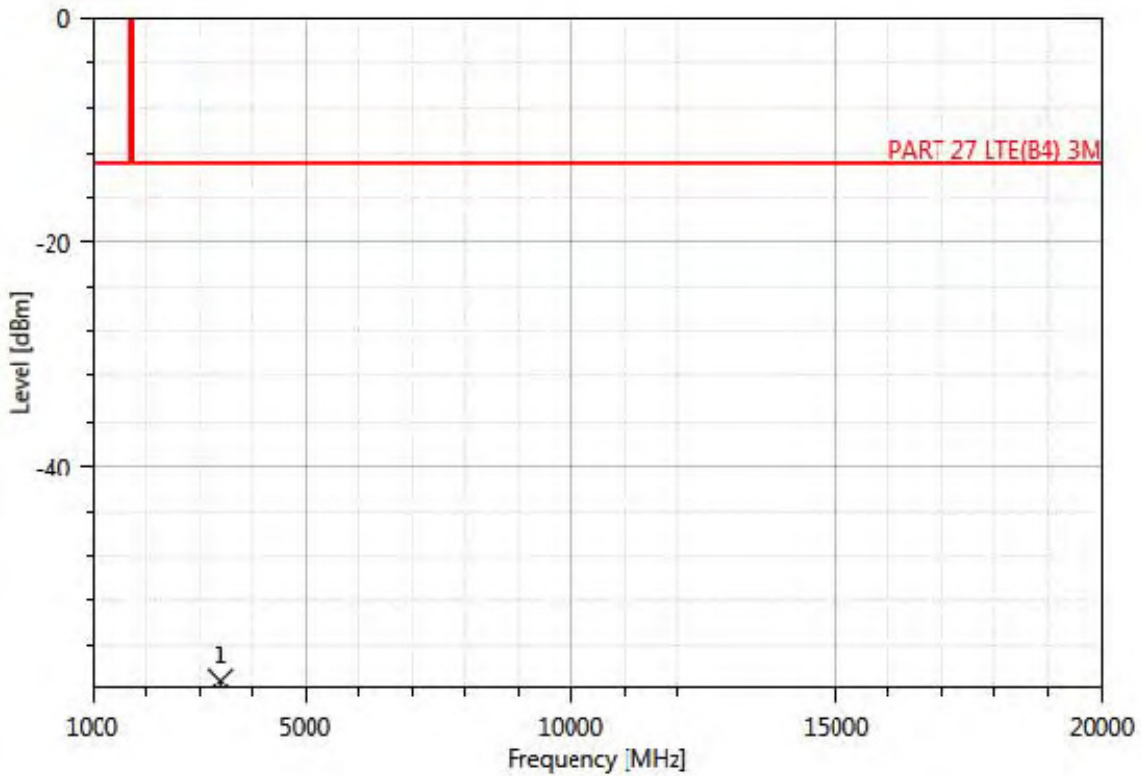
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Radiated Spurious Emission Measurement Result: LTE-Band 4 (The Worst Case)

| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | LTE B4 | Test Date : | 01/10/2017 |
| Fundamental Frequency : | 1711.5 MHz | Temp. / Humi. : | 22 deg_C / 61 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Tin |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | EIRP Level dBm | SG Output Level dBm | Antenna Gain dBi | Cable Loss dB | Limit @3m dBm | Margin dB |
|--------------|-----------------|-----------------------------|----------------------|---------------------------|------------------------|---------------------|---------------------|--------------|
| 3423.00 | H | Peak | -59.12 | -65.15 | 12.27 | -6.23 | -13.00 | -46.12 |

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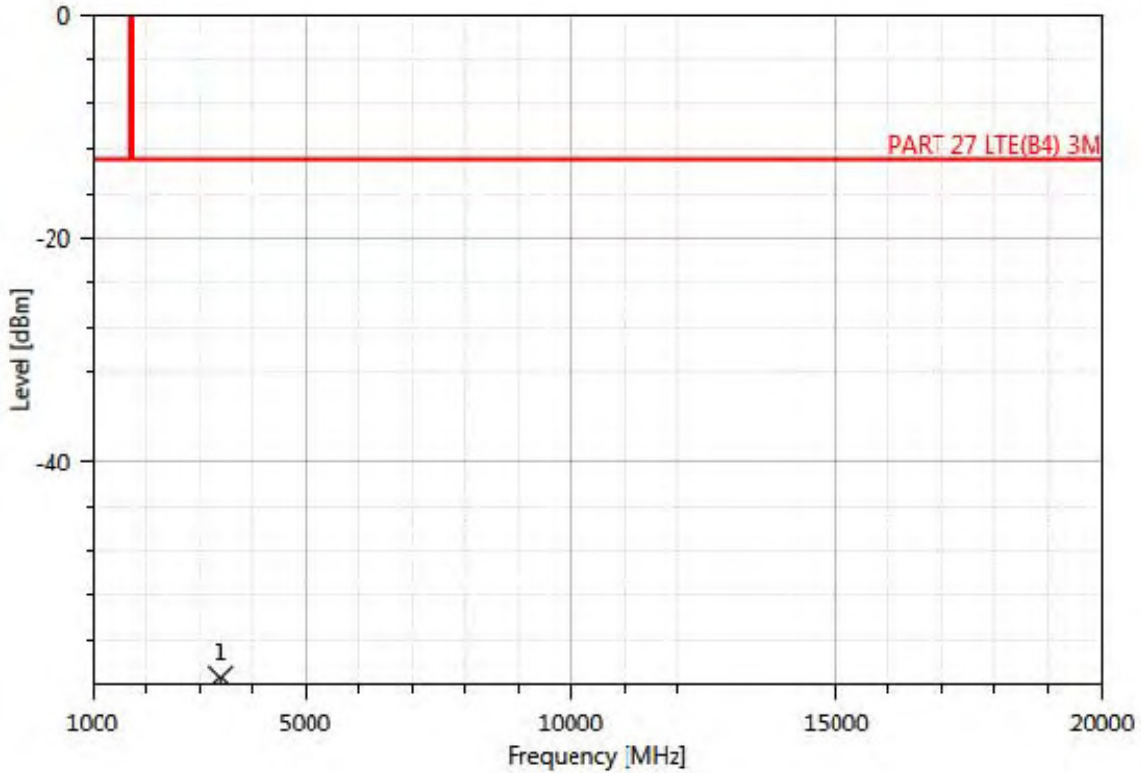
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| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | LTE B4 | Test Date : | 01/10/2017 |
| Fundamental Frequency : | 1711.5 MHz | Temp. / Humi. : | 22 deg_C / 61 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Tin |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | EIRP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|------------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBi | dB | dBm | dB |
| 3423.00 | H | Peak | -59.34 | -65.38 | 12.27 | -6.23 | -13.00 | -46.34 |

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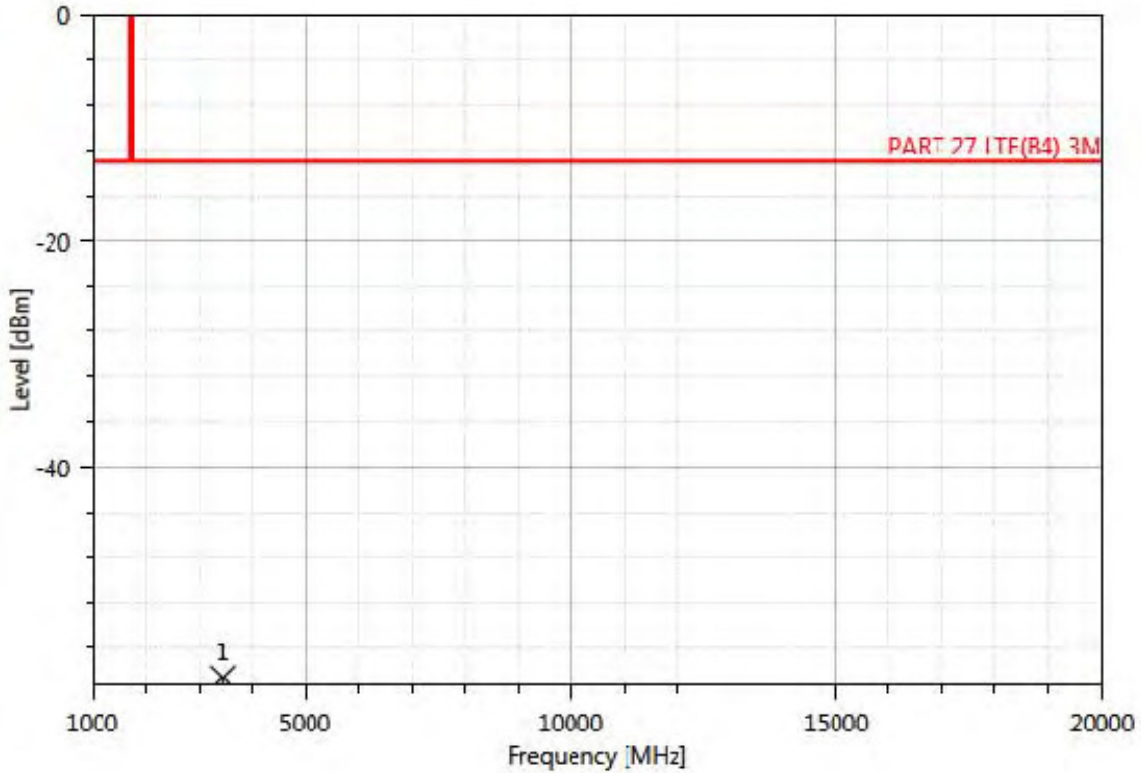
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| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | LTE B4 | Test Date : | 01/10/2017 |
| Fundamental Frequency : | 1732.5 MHz | Temp. / Humi. : | 22 deg_C / 61 RH |
| Operation Band : | Tx CH MID | Test Engineer : | Tin |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | EIRP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|------------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBi | dB | dBm | dB |
| 3465.00 | H | Peak | -58.61 | -64.70 | 12.34 | -6.25 | -13.00 | -45.61 |

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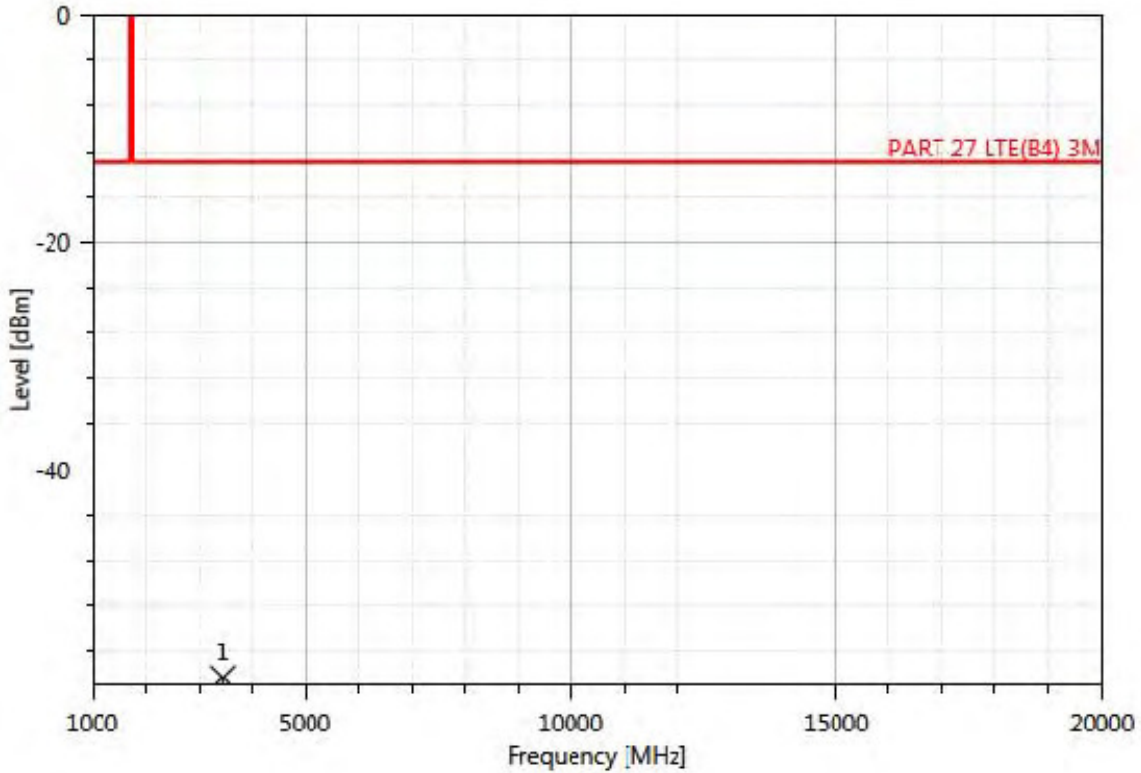
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| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | LTE B4 | Test Date : | 01/10/2017 |
| Fundamental Frequency : | 1732.5 MHz | Temp. / Humi. : | 22 deg_C / 61 RH |
| Operation Band : | Tx CH MID | Test Engineer : | Tin |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | EIRP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|------------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBi | dB | dBm | dB |
| 3465.00 | H | Peak | -58.32 | -64.41 | 12.34 | -6.25 | -13.00 | -45.32 |

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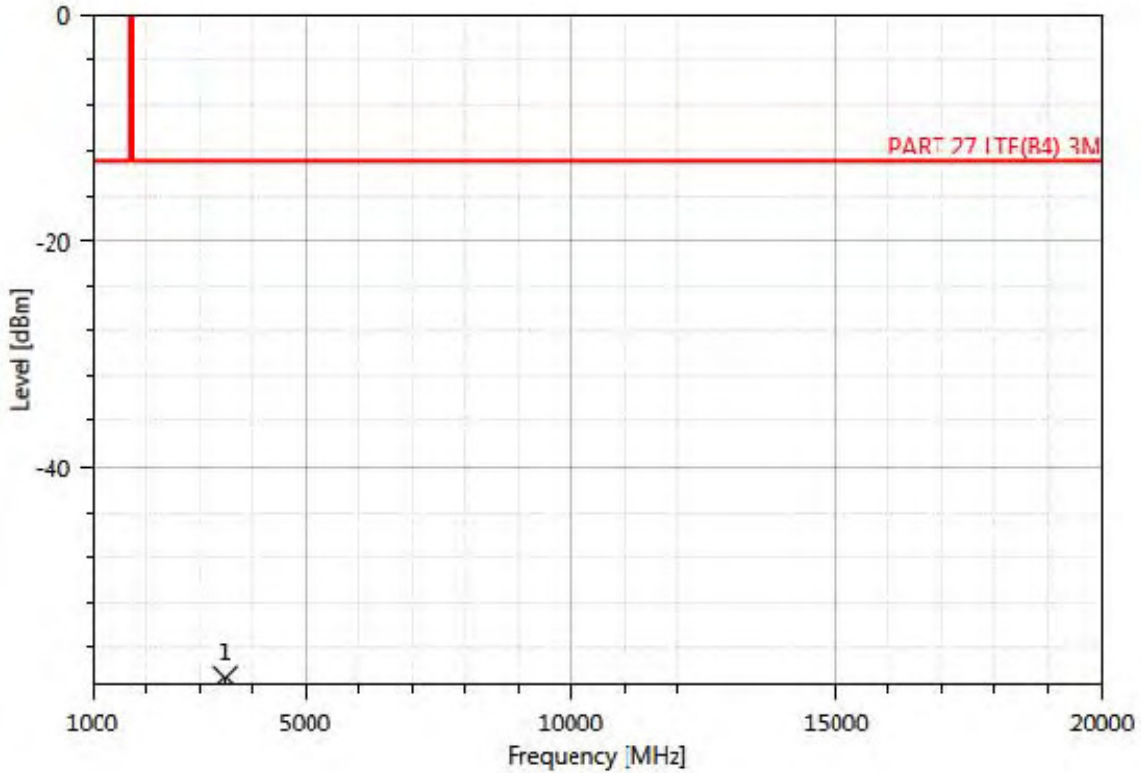
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Operation Mode : LTE B4 Test Date : 01/10/2017
 Fundamental Frequency : 1753.5 MHz Temp. / Humi. : 22 deg_C / 61 RH
 Operation Band : Tx CH HIGH Test Engineer : Tin
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



| Freq. | Note | Decetor Mode | EIRP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|------------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBi | dB | dBm | dB |
| 3507.00 | H | Peak | -58.65 | -64.57 | 12.40 | -6.48 | -13.00 | -45.65 |

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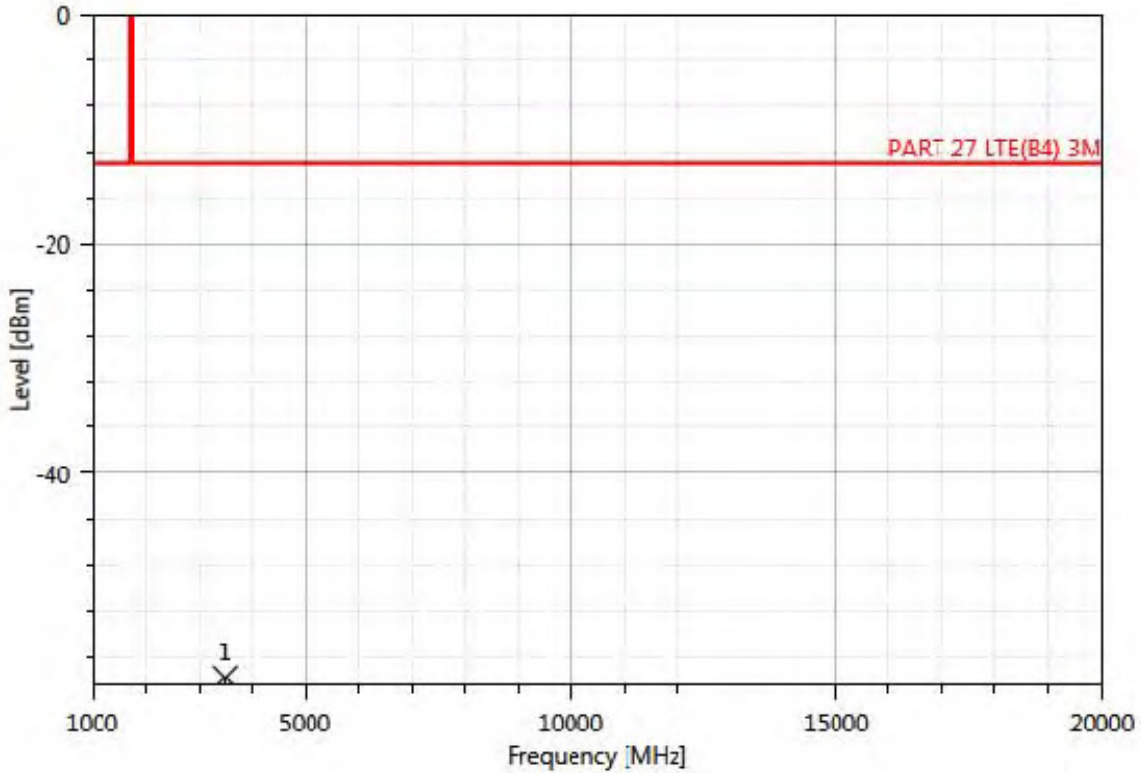
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Operation Mode : LTE B4 Test Date : 01/10/2017
 Fundamental Frequency : 1753.5 MHz Temp. / Humi. : 22 deg_C / 61 RH
 Operation Band : Tx CH HIGH Test Engineer : Tin
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



| Freq. | Note | Decetor Mode | EIRP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|------------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBi | dB | dBm | dB |
| 3507.00 | H | Peak | -57.80 | -63.72 | 12.40 | -6.48 | -13.00 | -44.80 |

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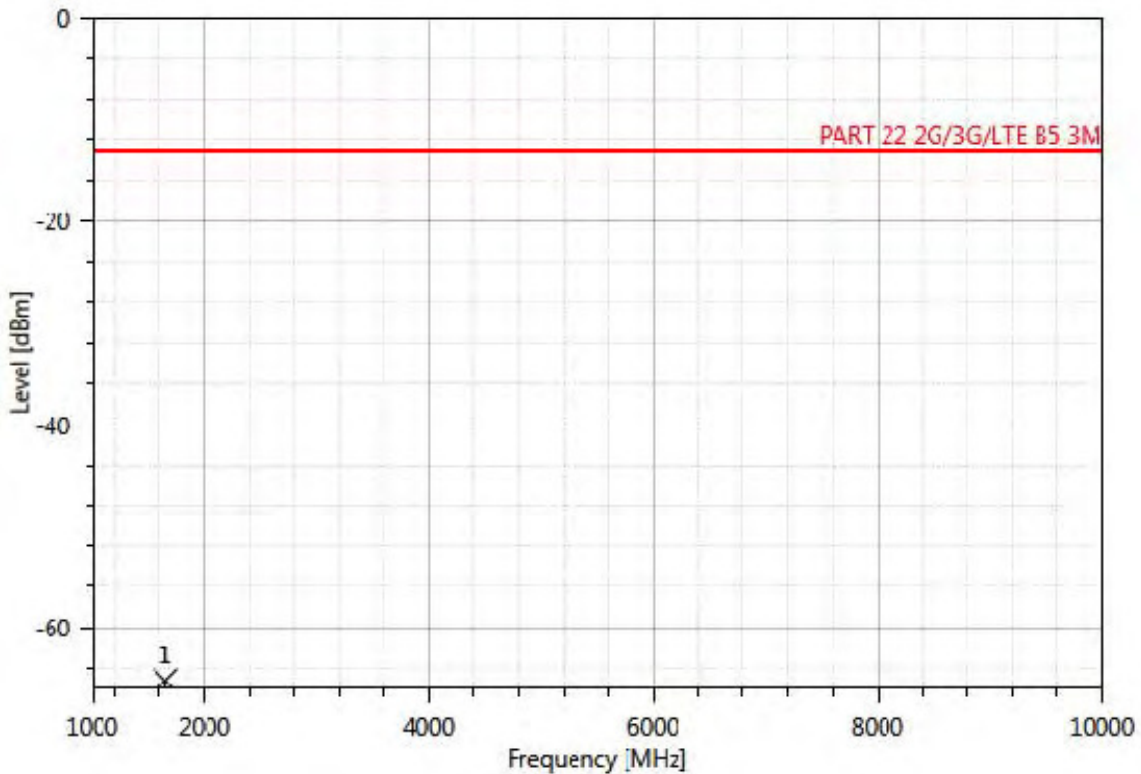
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Radiated Spurious Emission Measurement Result: LTE-Band 5 (The Worst Case)

| | | | |
|-------------------------|-----------|----------------------------|------------------|
| Operation Mode : | LTE B5 | Test Date : | 01/10/2017 |
| Fundamental Frequency : | 826.5 MHz | Temp. / Humi. : | 22 deg_C / 61 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Tin |
| EUT Pol. : | H Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | ERP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|-----------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBd | dB | dBm | dB |
| 1653.00 | H | Peak | -65.21 | -68.09 | 7.12 | -4.24 | -13.00 | -52.21 |

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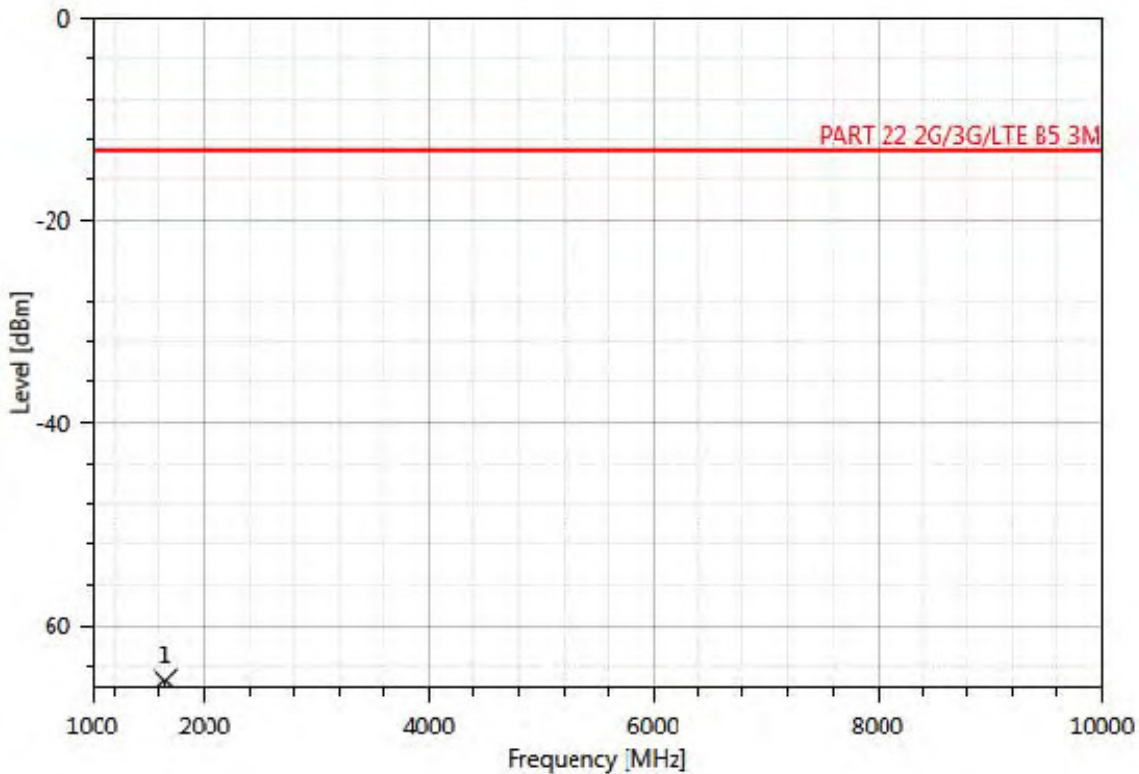
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| | | | |
|-------------------------|-----------|----------------------------|------------------|
| Operation Mode : | LTE B5 | Test Date : | 01/10/2017 |
| Fundamental Frequency : | 826.5 MHz | Temp. / Humi. : | 22 deg_C / 61 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Tin |
| EUT Pol. : | H Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | ERP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|-----------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBd | dB | dBm | dB |
| 1653.00 | H | Peak | -65.43 | -68.31 | 7.12 | -4.24 | -13.00 | -52.43 |

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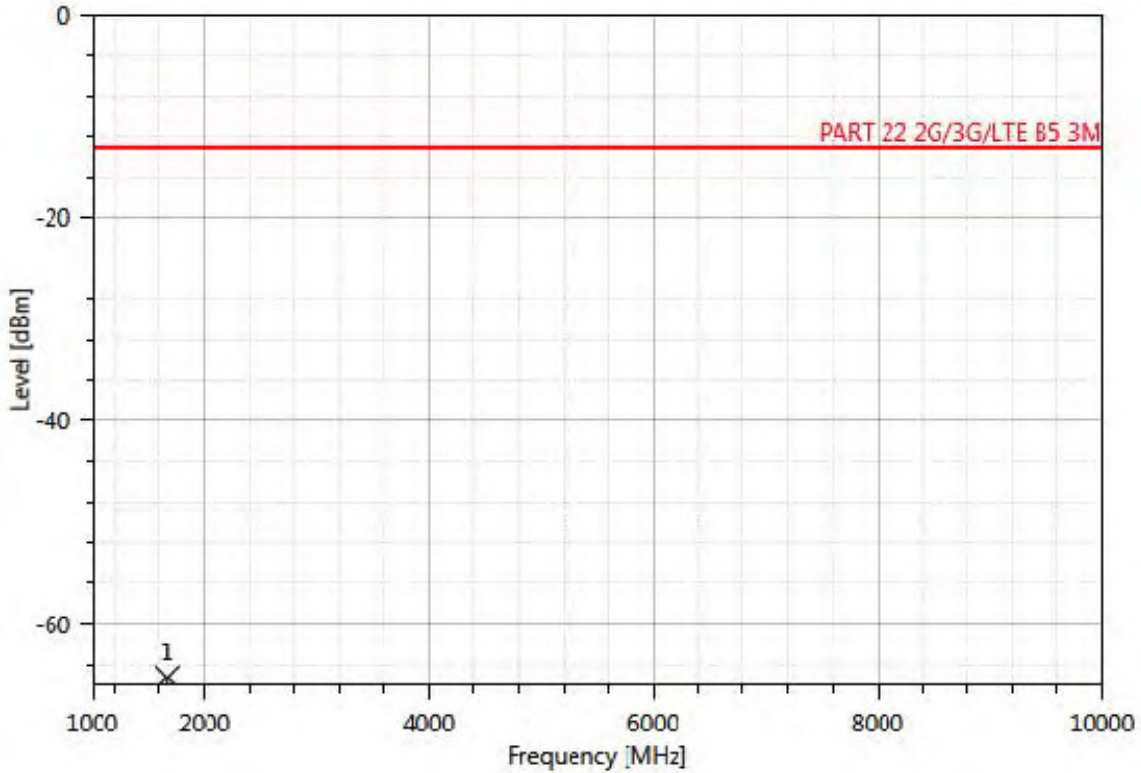
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| | | | |
|-------------------------|-----------|----------------------------|------------------|
| Operation Mode : | LTE B5 | Test Date : | 01/10/2017 |
| Fundamental Frequency : | 836.5 MHz | Temp. / Humi. : | 22 deg_C / 61 RH |
| Operation Band : | Tx CH MID | Test Engineer : | Tin |
| EUT Pol. : | H Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | ERP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|-----------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBd | dB | dBm | dB |
| 1673.00 | H | Peak | -65.32 | -68.23 | 7.20 | -4.29 | -13.00 | -52.32 |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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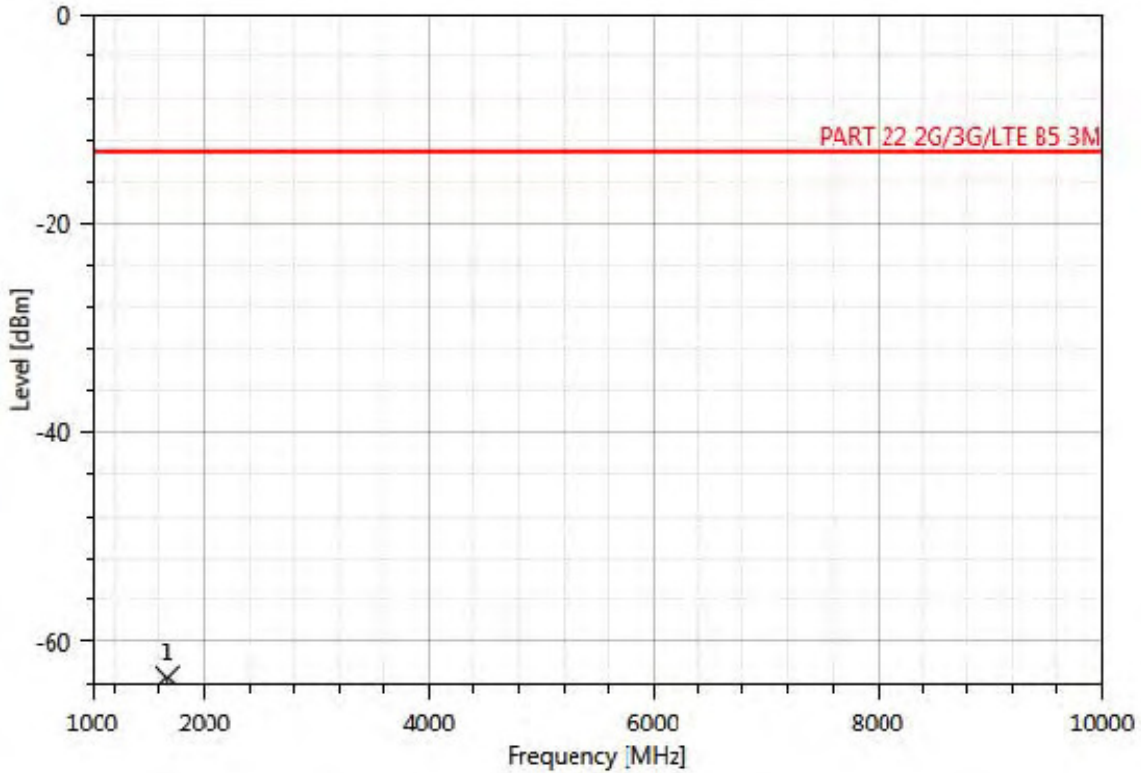
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|-------------------------|-----------|----------------------------|------------------|
| Operation Mode : | LTE B5 | Test Date : | 01/10/2017 |
| Fundamental Frequency : | 836.5 MHz | Temp. / Humi. : | 22 deg_C / 61 RH |
| Operation Band : | Tx CH MID | Test Engineer : | Tin |
| EUT Pol. : | H Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | ERP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|-----------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBd | dB | dBm | dB |
| 1673.00 | H | Peak | -63.45 | -66.36 | 7.20 | -4.29 | -13.00 | -50.45 |

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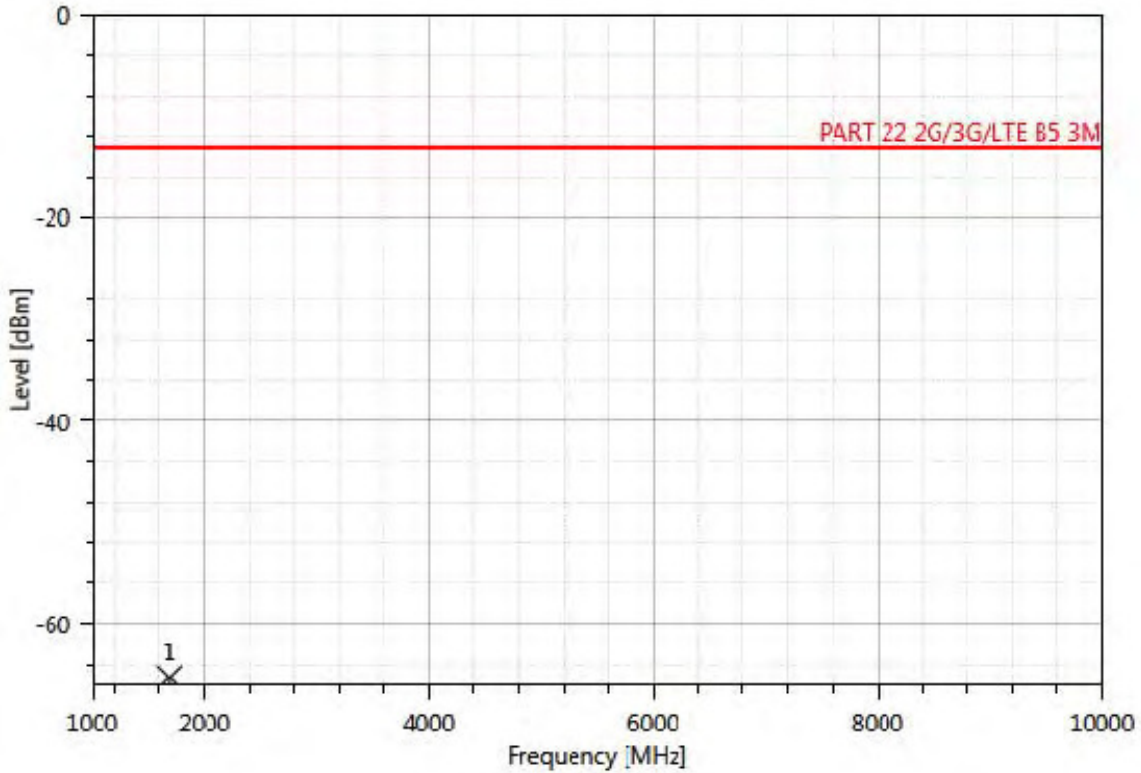
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| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | LTE B5 | Test Date : | 01/10/2017 |
| Fundamental Frequency : | 846.5MHz | Temp. / Humi. : | 22 deg_C / 61 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Tin |
| EUT Pol. : | H Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | ERP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|-----------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBd | dB | dBm | dB |
| 1693.00 | H | Peak | -65.29 | -68.25 | 7.27 | -4.30 | -13.00 | -52.29 |

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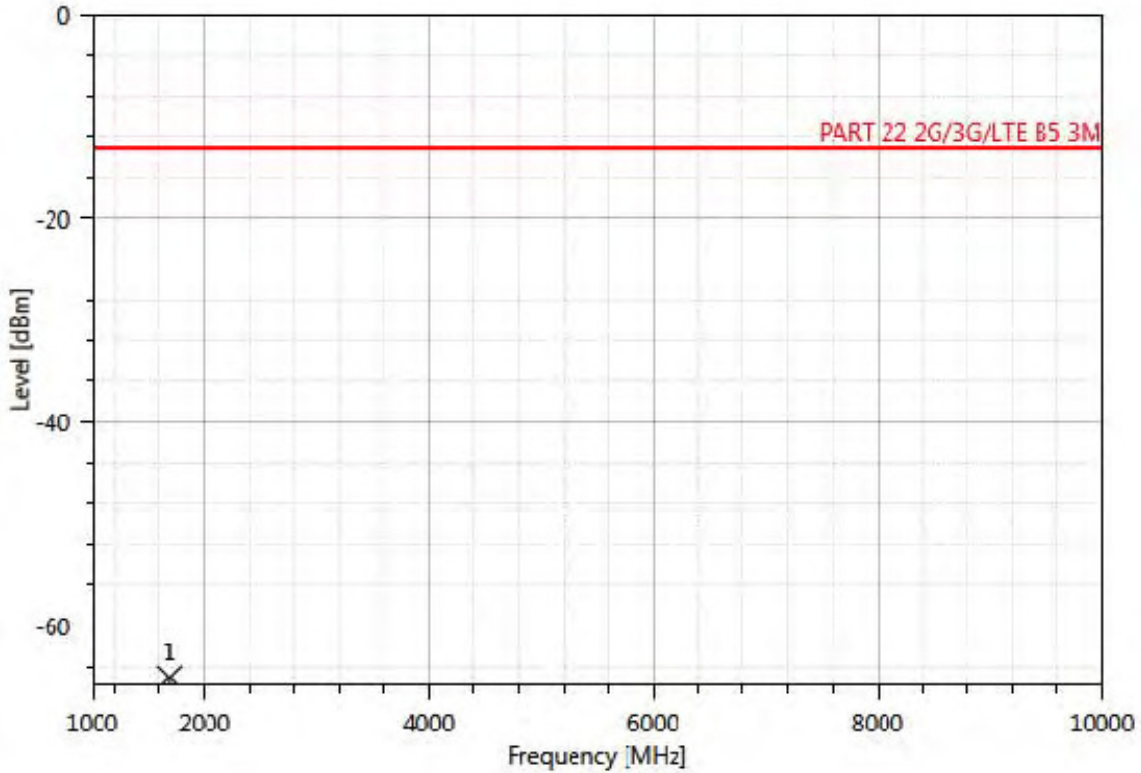
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| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | LTE B5 | Test Date : | 01/10/2017 |
| Fundamental Frequency : | 846.5MHz | Temp. / Humi. : | 22 deg_C / 61 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Tin |
| EUT Pol. : | H Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | ERP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|-----------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBd | dB | dBm | dB |
| 1693.00 | H | Peak | -65.09 | -68.05 | 7.27 | -4.30 | -13.00 | -52.09 |

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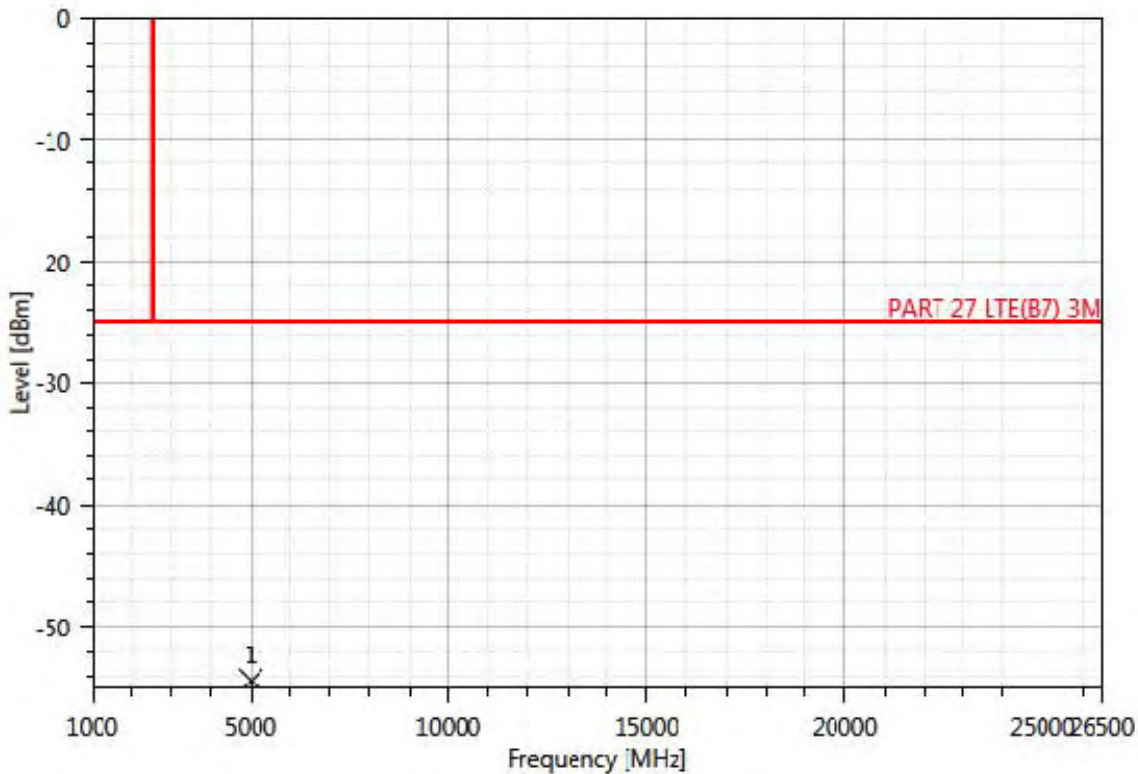
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Radiated Spurious Emission Measurement Result: LTE-Band 7 (The Worst Case)

| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | LTE B7 | Test Date : | 01/10/2017 |
| Fundamental Frequency : | 2502.5 MHz | Temp. / Humi. : | 22 deg_C / 61 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Tin |
| EUT Pol. : | E1 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | EIRP Level dBm | SG Output Level dBm | Antenna Gain dBi | Cable Loss dB | Limit @3m dBm | Margin dB |
|--------------|-----------------|-----------------------------|----------------------|---------------------------|------------------------|---------------------|---------------------|--------------|
| 5005.00 | H | Peak | -54.41 | -59.30 | 12.70 | -7.81 | -25.00 | -29.41 |

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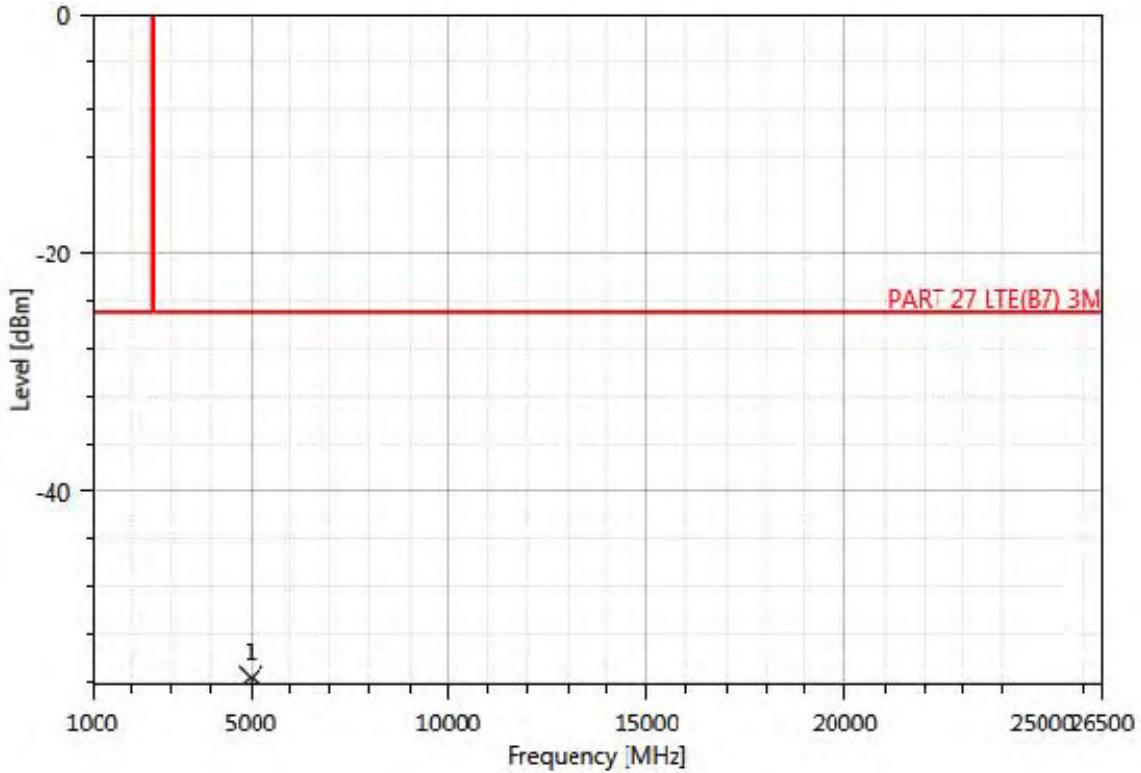
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| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | LTE B7 | Test Date : | 01/10/2017 |
| Fundamental Frequency : | 2502.5 MHz | Temp. / Humi. : | 22 deg_C / 61 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Tin |
| EUT Pol. : | E1 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | EIRP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|------------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBi | dB | dBm | dB |
| 5005.00 | H | Peak | -55.60 | -60.49 | 12.70 | -7.81 | -25.00 | -30.60 |

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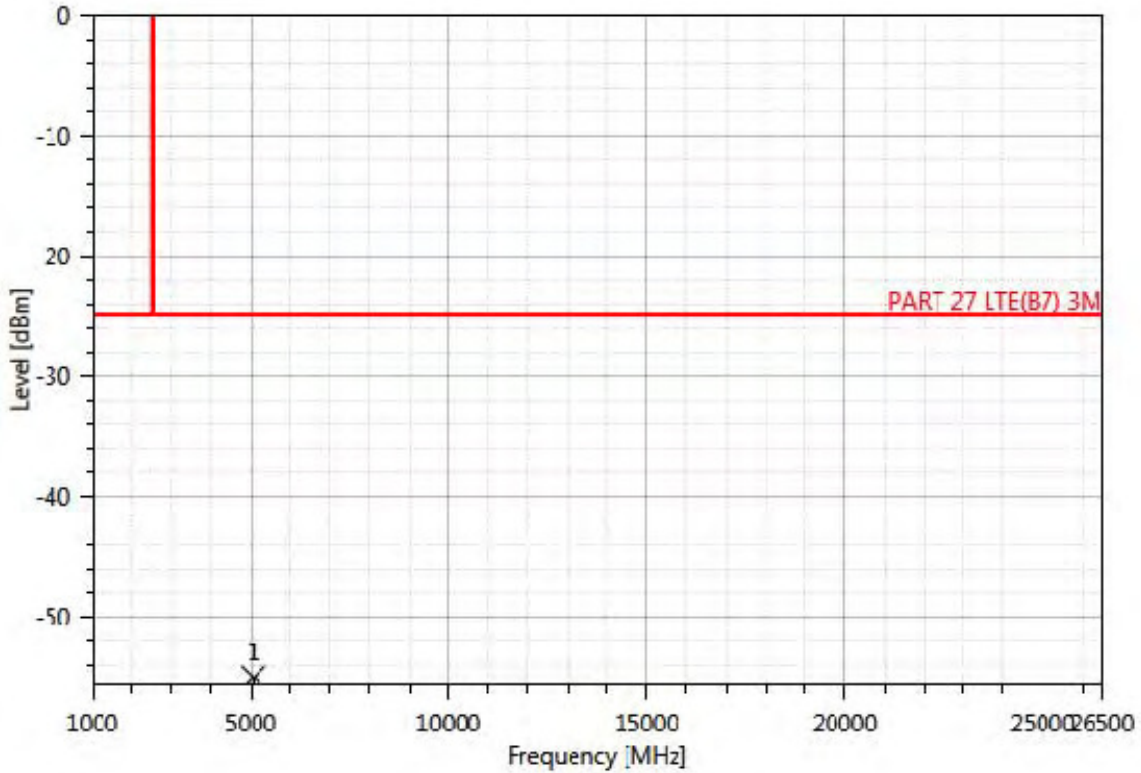
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Operation Mode : LTE B7 Test Date : 01/10/2017
 Fundamental Frequency : 2535.0 MHz Temp. / Humi. : 22 deg_C / 61 RH
 Operation Band : Tx CH MID Test Engineer : Tin
 EUT Pol. : E1 Plane Measurement Antenna Pol. : VERTICAL



| Freq. | Note | Decetor Mode | EIRP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|------------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBi | dB | dBm | dB |
| 5070.00 | H | Peak | -55.09 | -59.96 | 12.73 | -7.86 | -25.00 | -30.09 |

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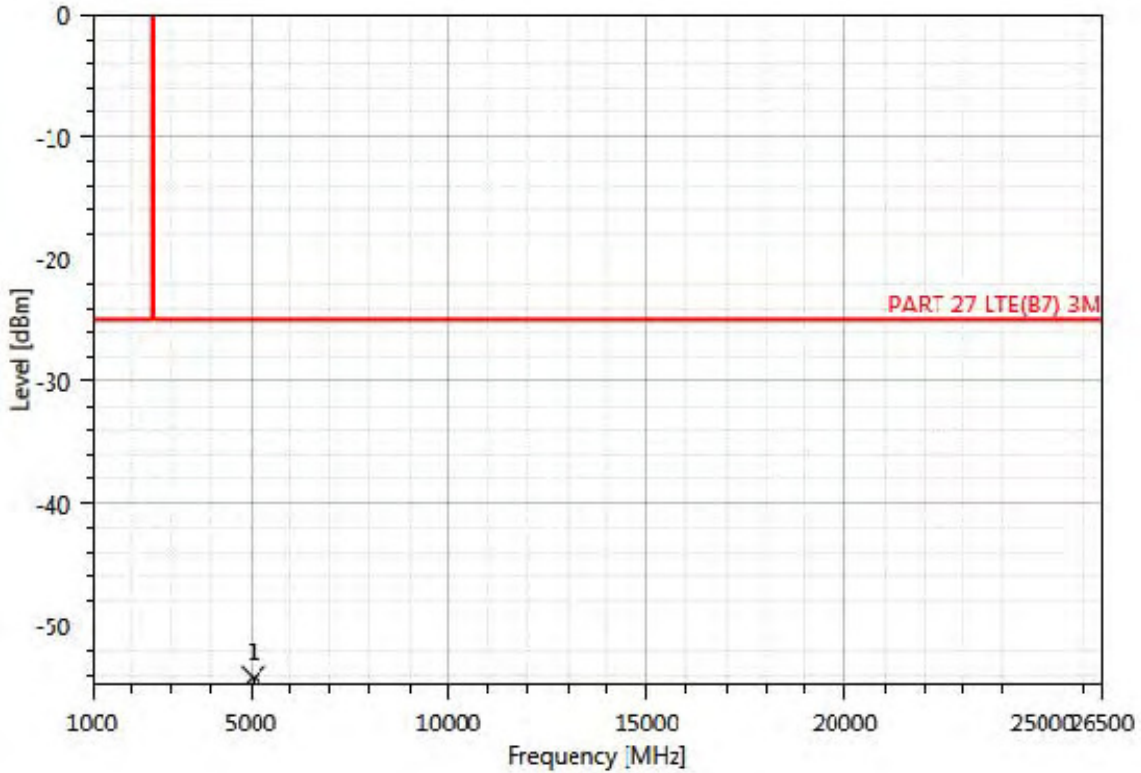
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Operation Mode : LTE B7 Test Date : 01/10/2017
 Fundamental Frequency : 2535.0 MHz Temp. / Humi. : 22 deg_C / 61 RH
 Operation Band : Tx CH MID Test Engineer : Tin
 EUT Pol. : E1 Plane Measurement Antenna Pol. : HORIZONTAL



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | EIRP Level dBm | SG Output Level dBm | Antenna Gain dBi | Cable Loss dB | Limit @3m dBm | Margin dB |
|--------------|-----------------|-----------------------------|----------------------|---------------------------|------------------------|---------------------|---------------------|--------------|
| 5070.00 | H | Peak | -54.23 | -59.10 | 12.73 | -7.86 | -25.00 | -29.23 |

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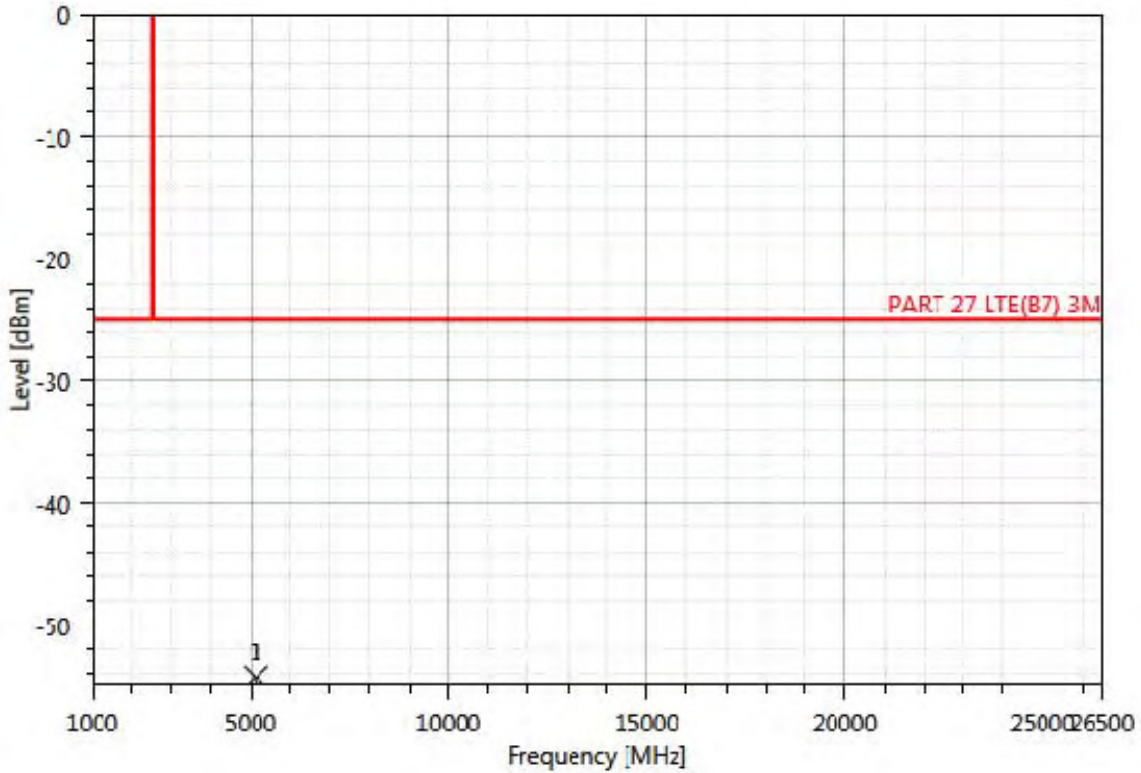
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Operation Mode : LTE B7 Test Date : 01/10/2017
 Fundamental Frequency : 2567.5 MHz Temp. / Humi. : 22 deg_C / 61 RH
 Operation Band : Tx CH HIGH Test Engineer : Tin
 EUT Pol. : E1 Plane Measurement Antenna Pol. : VERTICAL



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | EIRP Level dBm | SG Output Level dBm | Antenna Gain dBi | Cable Loss dB | Limit @3m dBm | Margin dB |
|--------------|-----------------|-----------------------------|----------------------|---------------------------|------------------------|---------------------|---------------------|--------------|
| 5135.00 | H | Peak | -54.29 | -59.12 | 12.76 | -7.92 | -25.00 | -29.29 |

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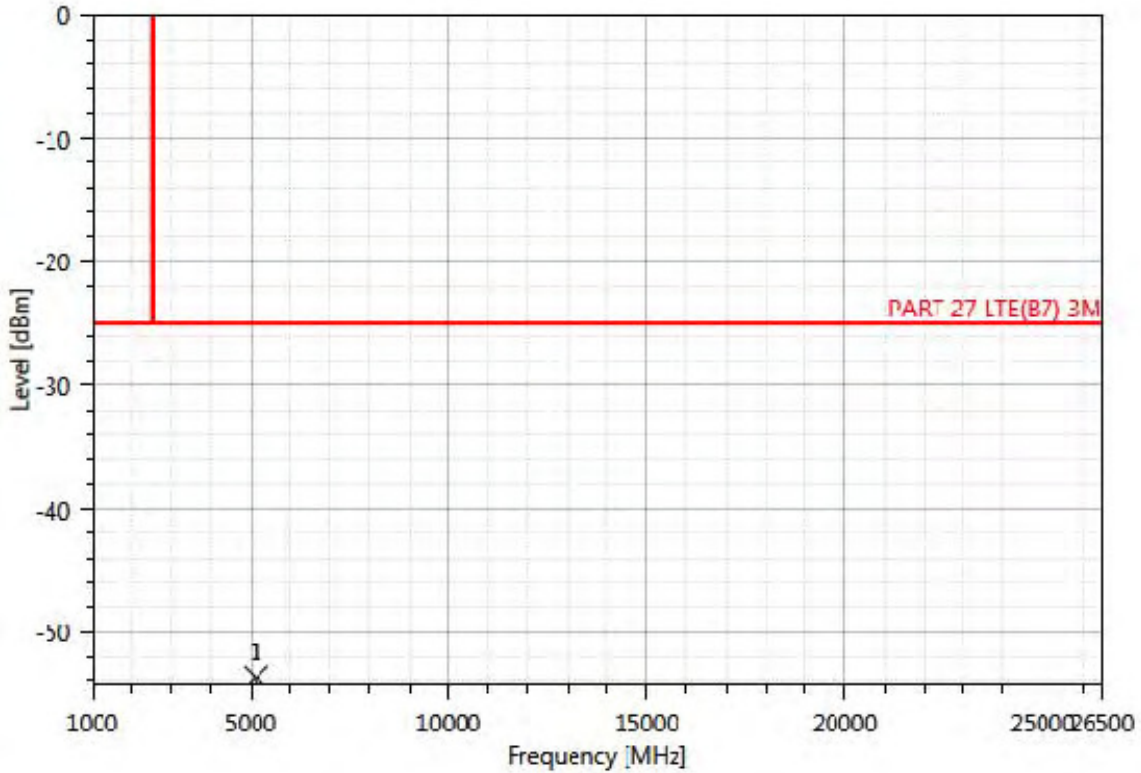
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|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | LTE B7 | Test Date : | 01/10/2017 |
| Fundamental Frequency : | 2567.5 MHz | Temp. / Humi. : | 22 deg_C / 61 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Tin |
| EUT Pol. : | E1 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | EIRP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|------------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBi | dB | dBm | dB |
| 5135.00 | H | Peak | -53.65 | -58.48 | 12.76 | -7.92 | -25.00 | -28.65 |

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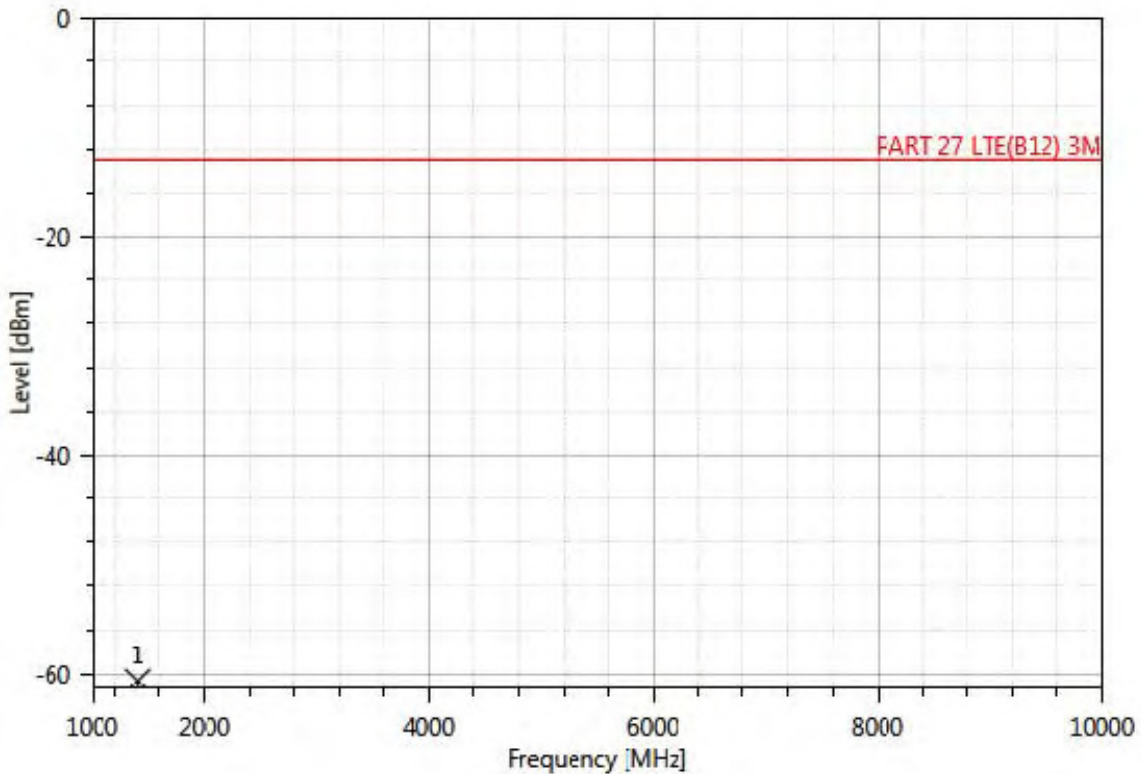
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Radiated Spurious Emission Measurement Result: LTE-Band 12 (The Worst Case)

| | | | |
|-------------------------|-----------|----------------------------|------------------|
| Operation Mode : | LTE B12 | Test Date : | 01/10/2017 |
| Fundamental Frequency : | 701.5 MHz | Temp. / Humi. : | 22 deg_C / 61 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Tin |
| EUT Pol. : | H Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | ERP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|-----------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBd | dB | dBm | dB |
| 1403.00 | H | Peak | -60.66 | -62.90 | 6.14 | -3.90 | -13.00 | -47.66 |

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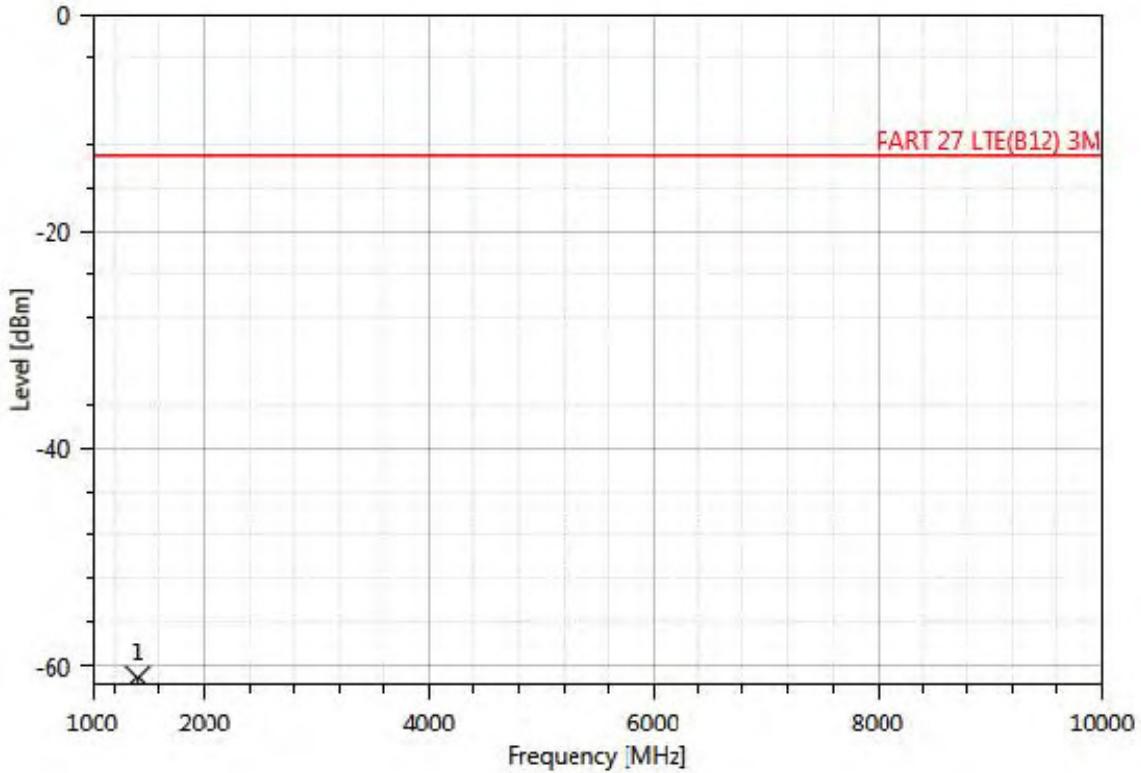
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| | | | |
|-------------------------|-----------|----------------------------|------------------|
| Operation Mode : | LTE B12 | Test Date : | 01/10/2017 |
| Fundamental Frequency : | 701.5 MHz | Temp. / Humi. : | 22 deg_C / 61 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Tin |
| EUT Pol. : | H Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | ERP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|-----------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBd | dB | dBm | dB |
| 1403.00 | H | Peak | -61.14 | -63.38 | 6.14 | -3.90 | -13.00 | -48.14 |

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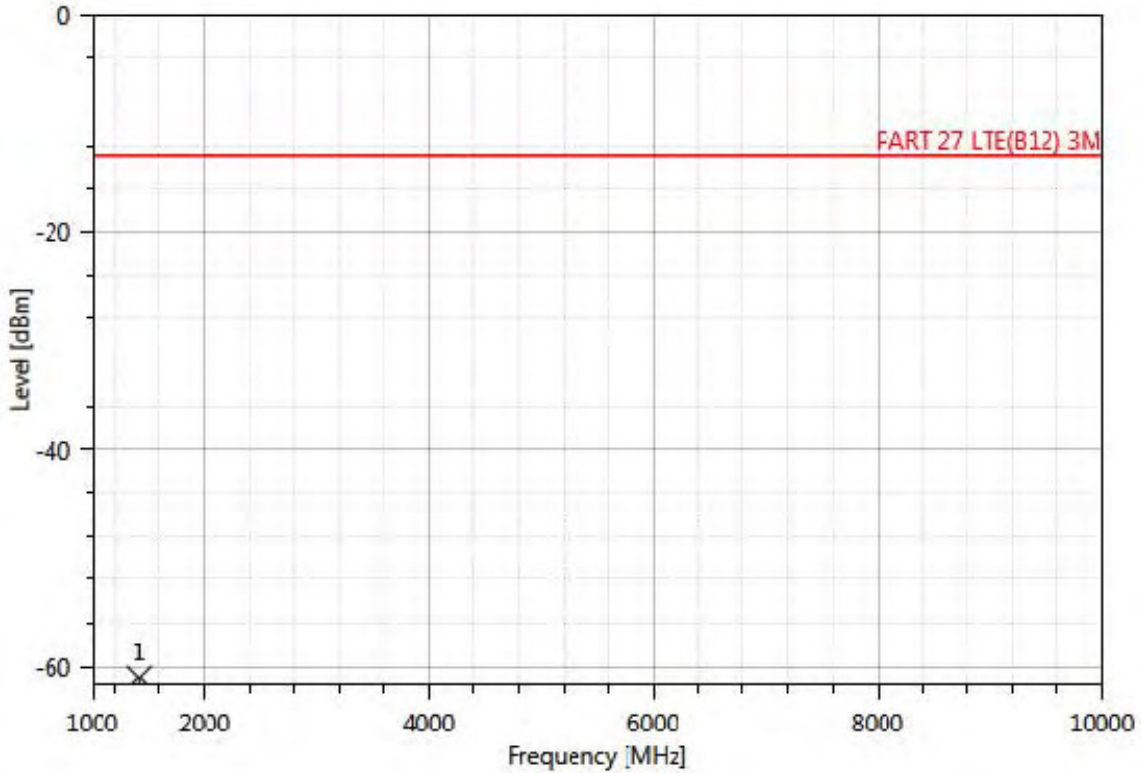
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| | | | |
|-------------------------|-----------|----------------------------|------------------|
| Operation Mode : | LTE B12 | Test Date : | 01/10/2017 |
| Fundamental Frequency : | 707.5 MHz | Temp. / Humi. : | 22 deg_C / 61 RH |
| Operation Band : | Tx CH MID | Test Engineer : | Tin |
| EUT Pol. : | H Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | ERP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|-----------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBd | dB | dBm | dB |
| 1415.00 | H | Peak | -61.04 | -63.32 | 6.19 | -3.91 | -13.00 | -48.04 |

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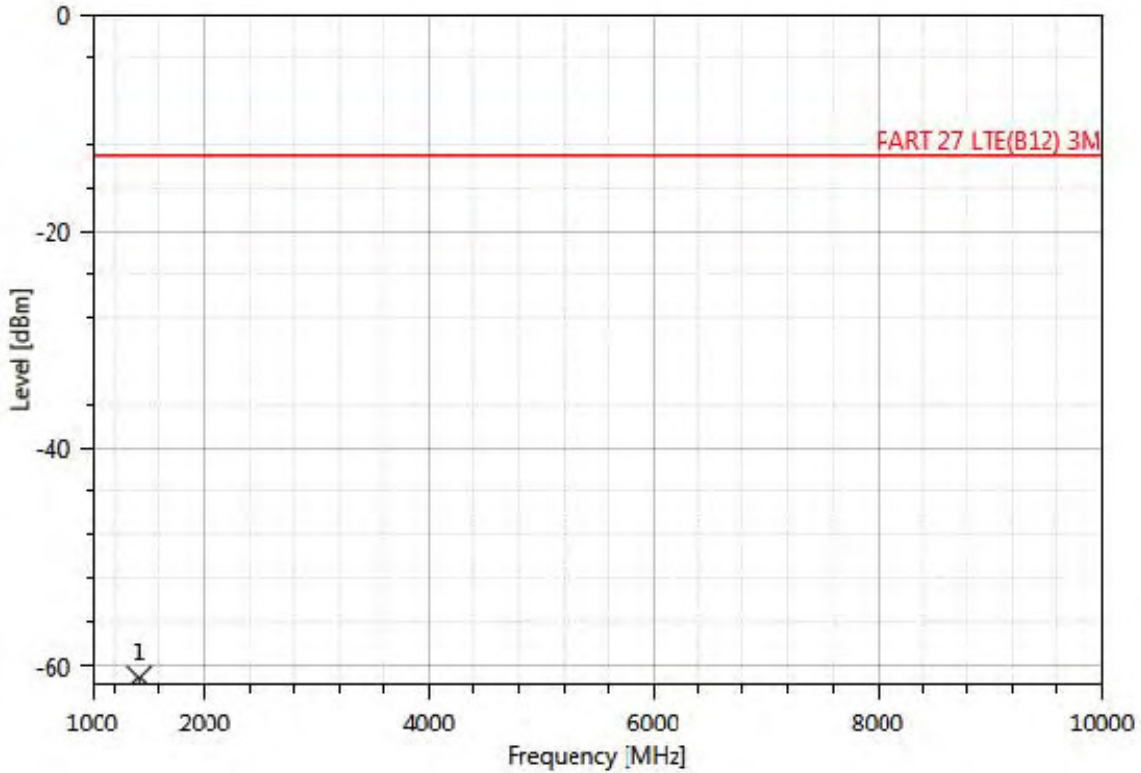
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| | | | |
|-------------------------|-----------|----------------------------|------------------|
| Operation Mode : | LTE B12 | Test Date : | 01/10/2017 |
| Fundamental Frequency : | 707.5 MHz | Temp. / Humi. : | 22 deg_C / 61 RH |
| Operation Band : | Tx CH MID | Test Engineer : | Tin |
| EUT Pol. : | H Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | ERP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|-----------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBd | dB | dBm | dB |
| 1415.00 | H | Peak | -61.14 | -63.41 | 6.19 | -3.91 | -13.00 | -48.14 |

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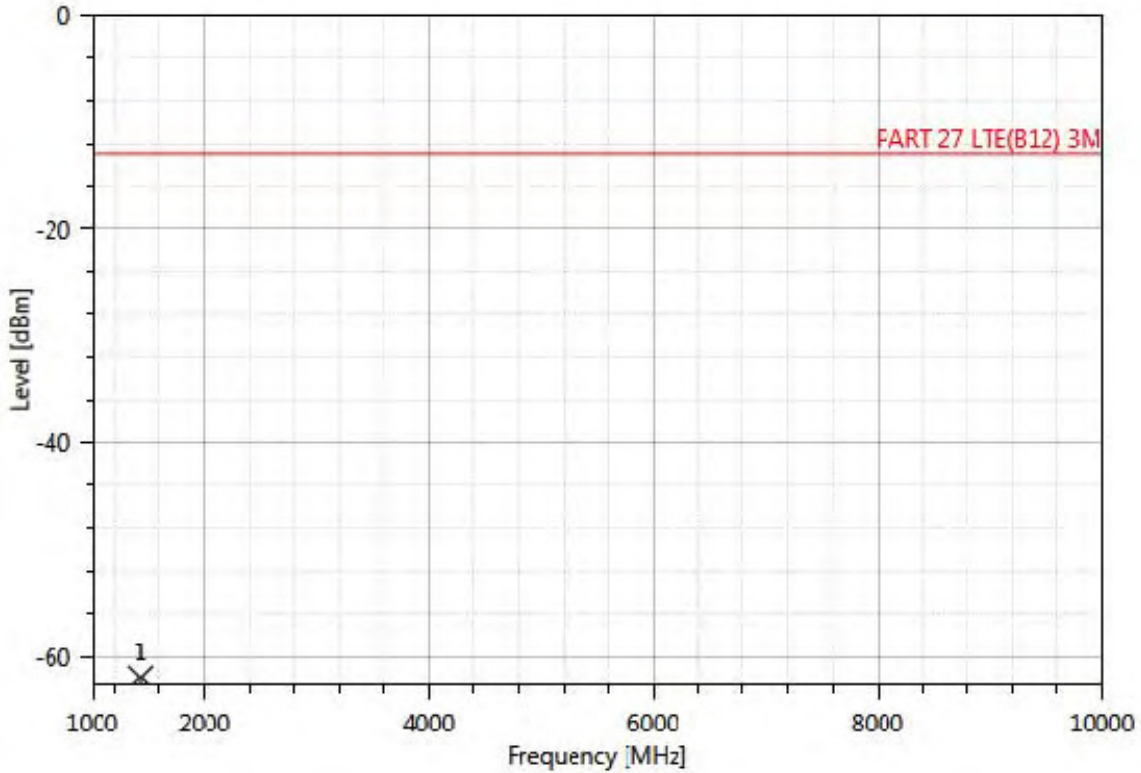
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Operation Mode : LTE B12 Test Date : 01/10/2017
 Fundamental Frequency : 713.5 MHz Temp. / Humi. : 22 deg_C / 61 RH
 Operation Band : Tx CH HIGH Test Engineer : Tin
 EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL



| Freq. MHz | Note F/H/E/S | Decetor Mode QP/AV/PK | ERP Level dBm | SG Output Level dBm | Antenna Gain dBd | Cable Loss dB | Limit @3m dBm | Margin dB |
|--------------|-----------------|-----------------------------|---------------------|---------------------------|------------------------|---------------------|---------------------|--------------|
| 1427.00 | H | Peak | -61.96 | -64.27 | 6.24 | -3.93 | -13.00 | -48.96 |

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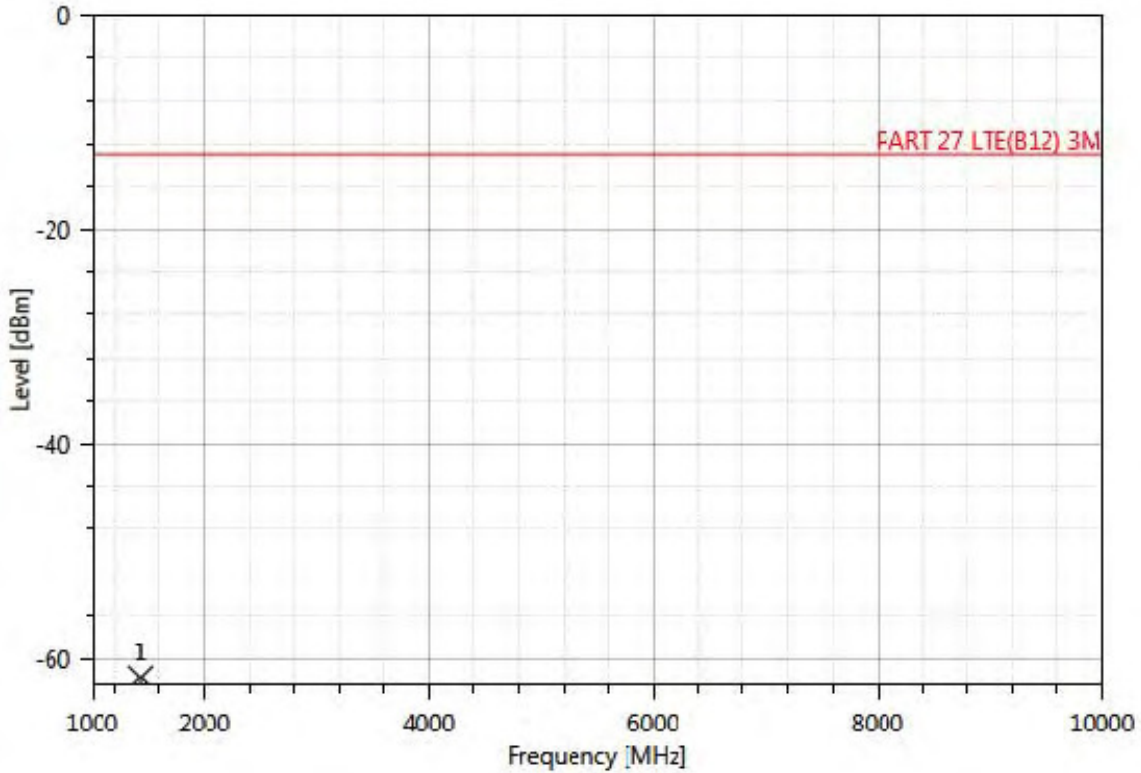
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| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | LTE B12 | Test Date : | 01/10/2017 |
| Fundamental Frequency : | 713.5 MHz | Temp. / Humi. : | 22 deg_C / 61 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Tin |
| EUT Pol. : | H Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | ERP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|-----------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBd | dB | dBm | dB |
| 1427.00 | H | Peak | -61.76 | -64.07 | 6.24 | -3.93 | -13.00 | -48.76 |

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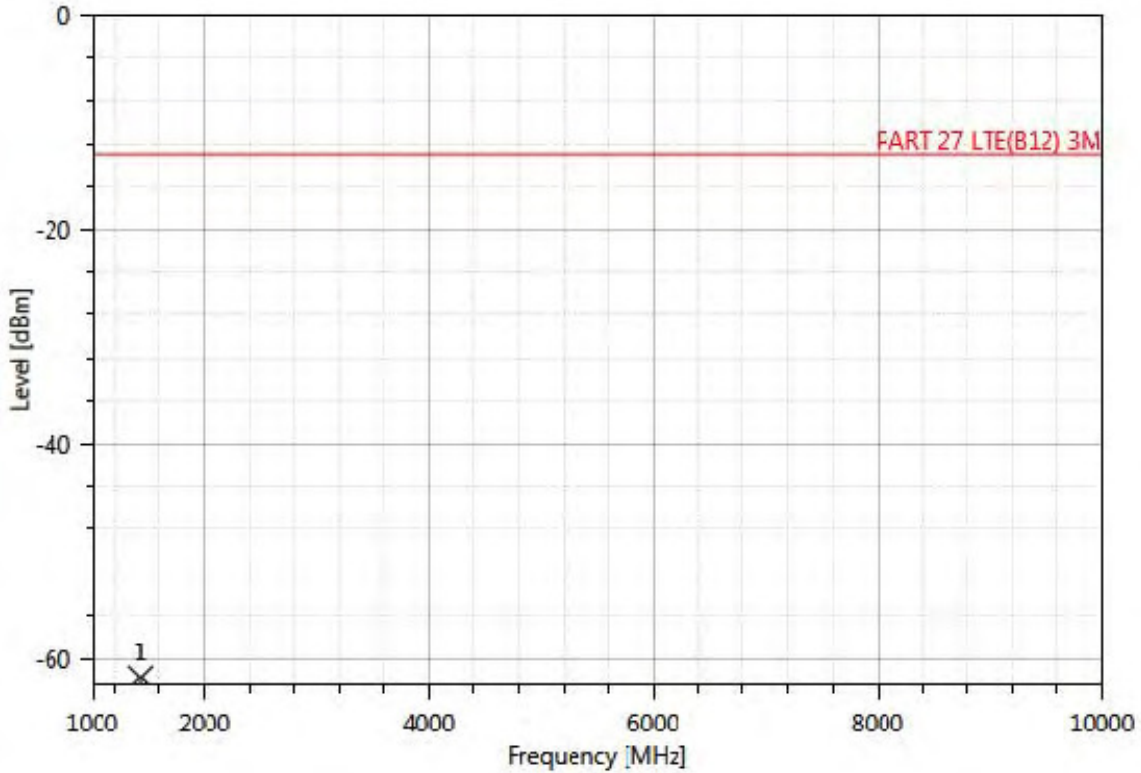
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| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | LTE B12 | Test Date : | 10/07/2016 |
| Fundamental Frequency : | 713.5 MHz | Temp. / Humi. : | 21 deg_C / 62 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Tin |
| EUT Pol. : | E2 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | ERP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|-----------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBd | dB | dBm | dB |
| 1427.00 | H | Peak | -61.76 | -64.07 | 6.24 | -3.93 | -13.00 | -48.76 |

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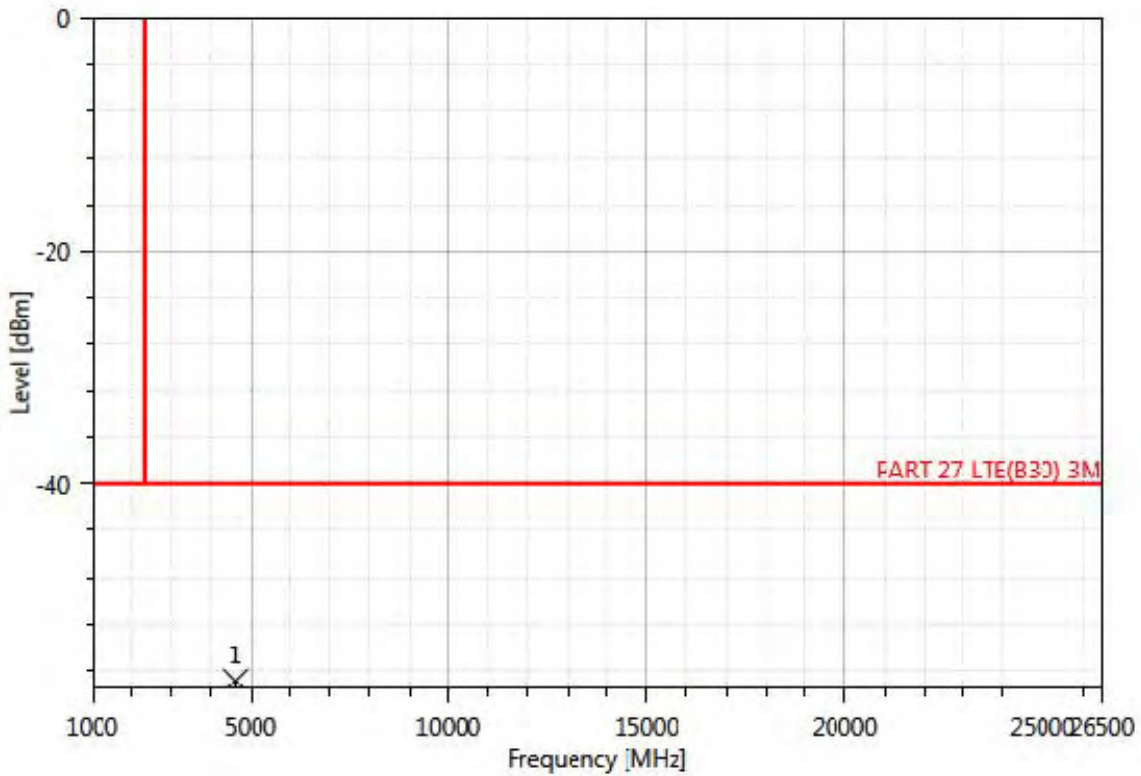
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Radiated Spurious Emission Measurement Result: LTE-Band 30 (The Worst Case)

| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | LTE B30 | Test Date : | 01/10/2017 |
| Fundamental Frequency : | 2307.5 MHz | Temp. / Humi. : | 22 deg_C / 61 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Tin |
| EUT Pol. : | E1 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | EIRP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|------------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBi | dB | dBm | dB |
| 4615.00 | H | Peak | -56.85 | -62.12 | 12.70 | -7.43 | -40.00 | -16.85 |

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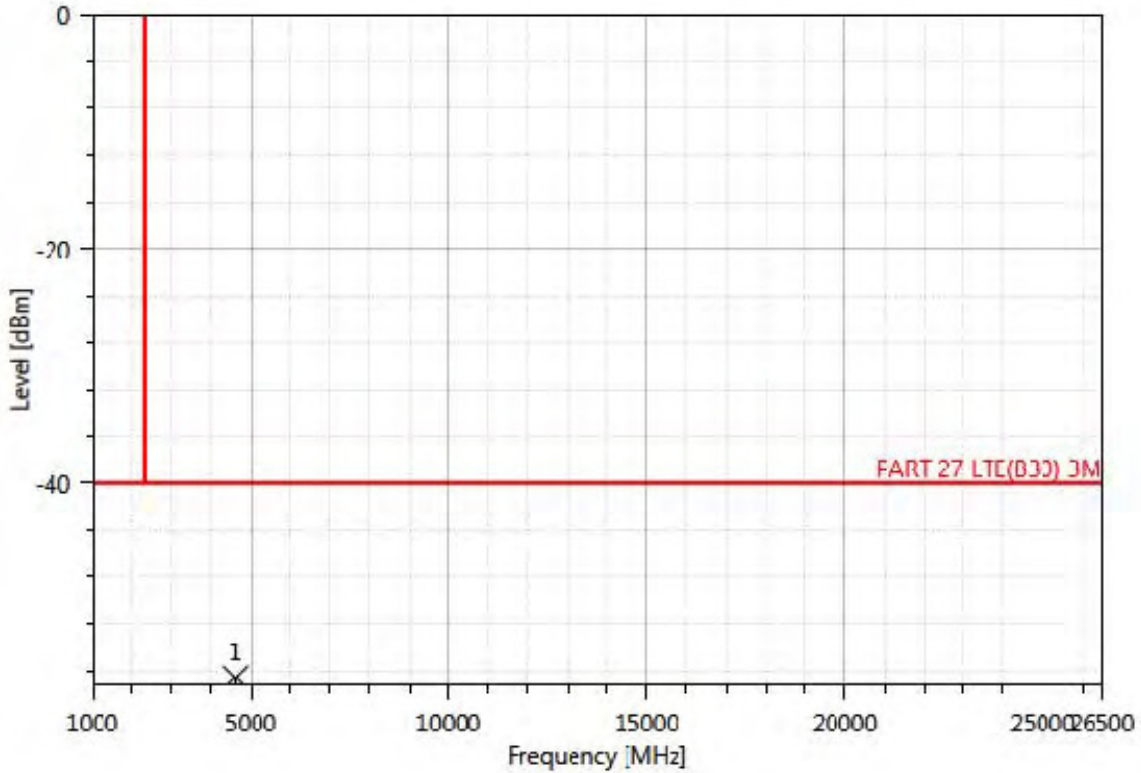
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| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | LTE B30 | Test Date : | 01/10/2017 |
| Fundamental Frequency : | 2307.5 MHz | Temp. / Humi. : | 22 deg_C / 61 RH |
| Operation Band : | Tx CH LOW | Test Engineer : | Tin |
| EUT Pol. : | E1 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | EIRP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|------------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBi | dB | dBm | dB |
| 4615.00 | H | Peak | -56.57 | -61.84 | 12.70 | -7.43 | -40.00 | -16.57 |

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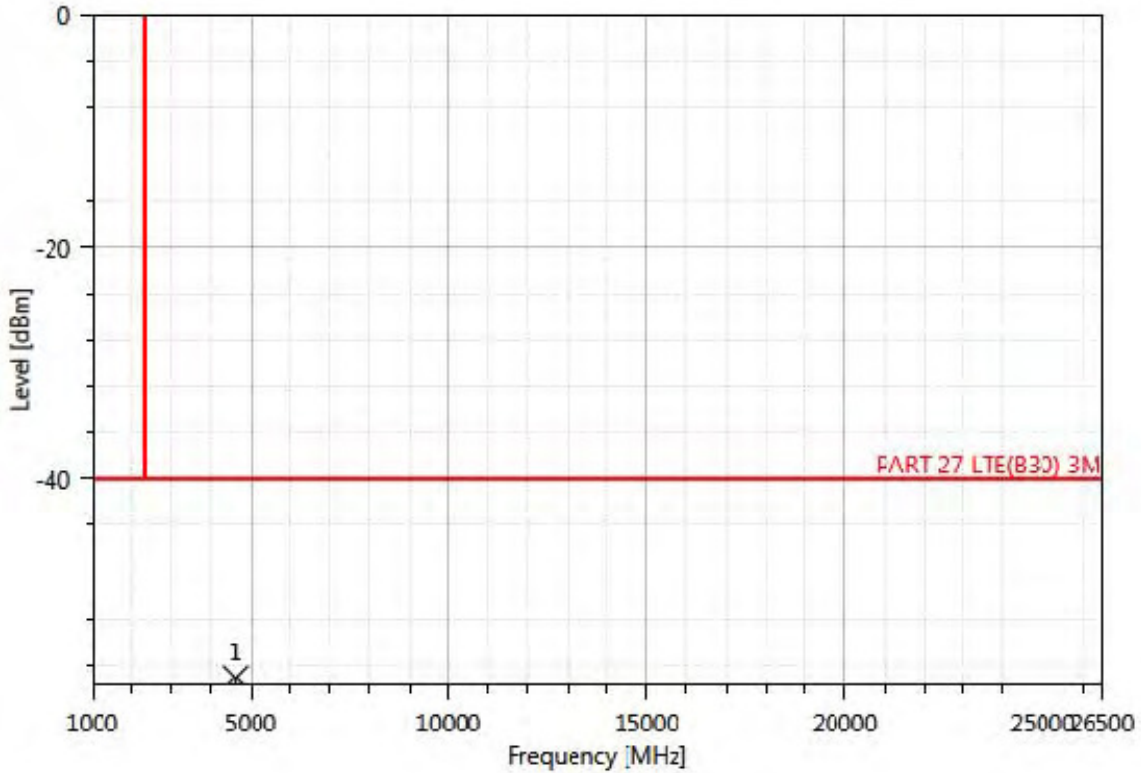
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| | | | |
|-------------------------|-----------|----------------------------|------------------|
| Operation Mode : | LTE B30 | Test Date : | 01/10/2017 |
| Fundamental Frequency : | 2310 MHz | Temp. / Humi. : | 22 deg_C / 61 RH |
| Operation Band : | Tx CH MID | Test Engineer : | Tin |
| EUT Pol. : | E1 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | EIRP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|------------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBi | dB | dBm | dB |
| 4620.00 | H | Peak | -57.07 | -62.33 | 12.70 | -7.44 | -40.00 | -17.07 |

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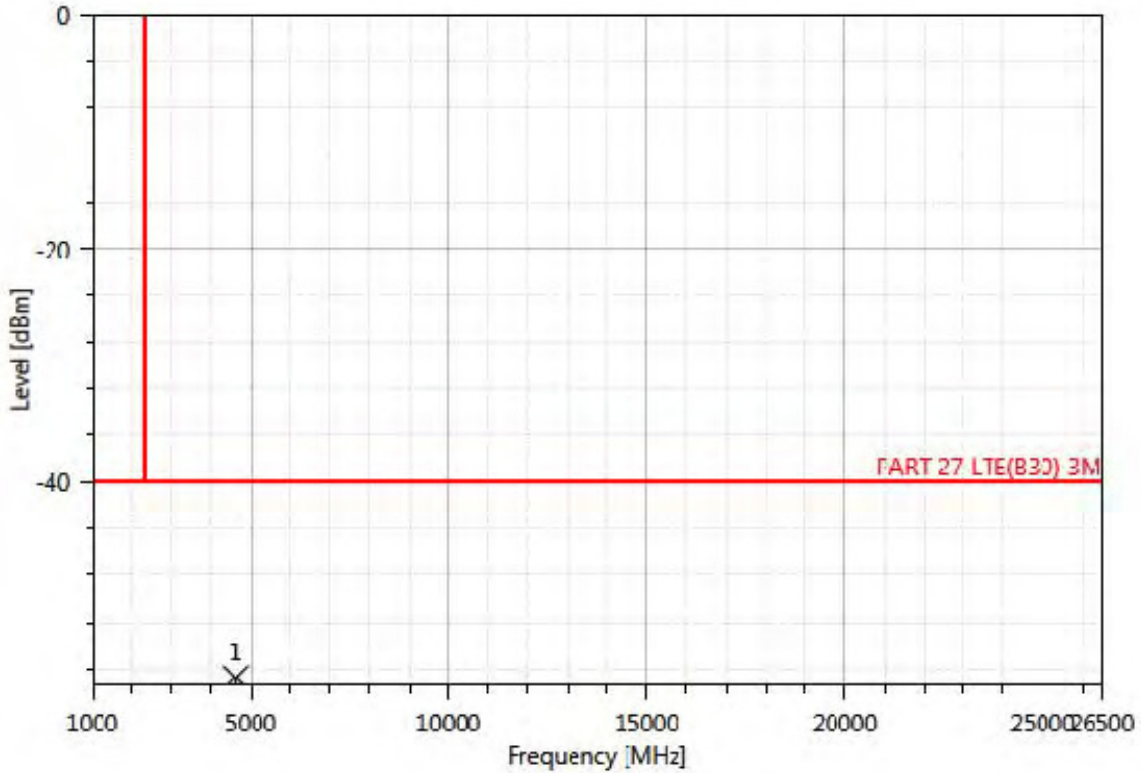
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|-------------------------|-----------|----------------------------|------------------|
| Operation Mode : | LTE B30 | Test Date : | 01/10/2017 |
| Fundamental Frequency : | 2310 MHz | Temp. / Humi. : | 22 deg_C / 61 RH |
| Operation Band : | Tx CH MID | Test Engineer : | Tin |
| EUT Pol. : | E1 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | EIRP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|------------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBi | dB | dBm | dB |
| 4620.00 | H | Peak | -56.75 | -62.01 | 12.70 | -7.44 | -40.00 | -16.75 |

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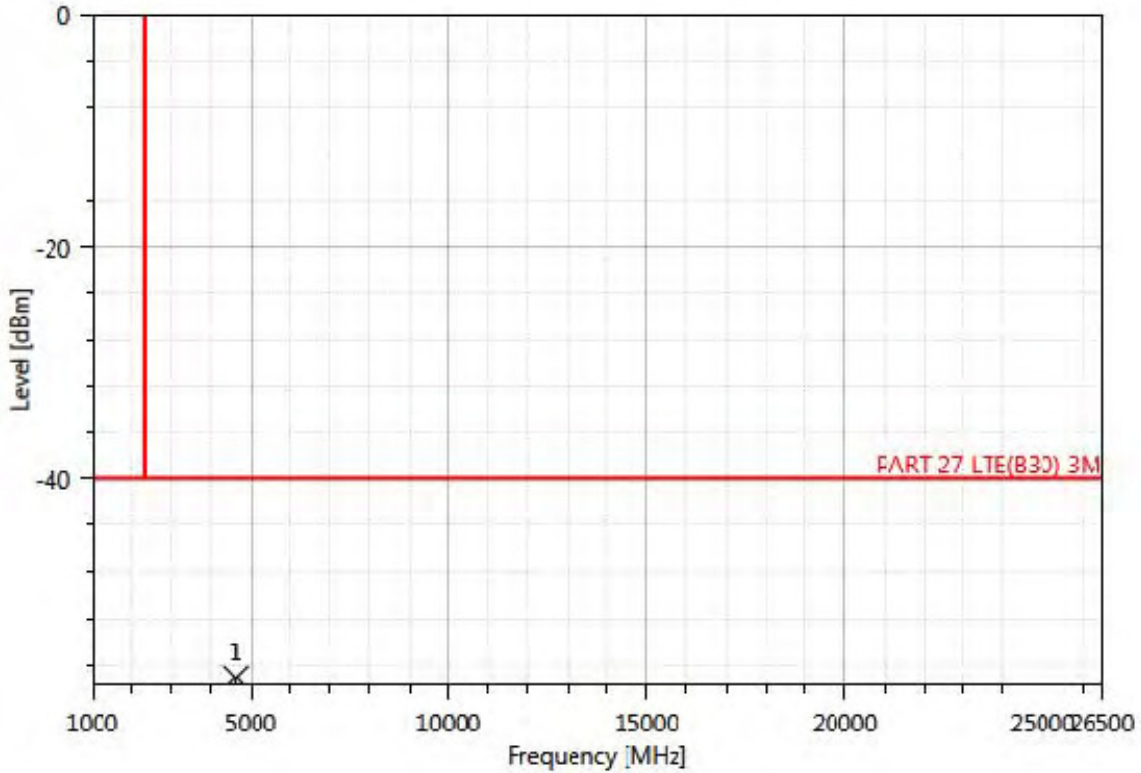
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| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | LTE B30 | Test Date : | 01/10/2017 |
| Fundamental Frequency : | 2312.5 MHz | Temp. / Humi. : | 22 deg_C / 61 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Tin |
| EUT Pol. : | E1 Plane | Measurement Antenna Pol. : | VERTICAL |



| Freq. | Note | Decetor Mode | EIRP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|------------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBi | dB | dBm | dB |
| 4625.00 | H | Peak | -57.13 | -62.39 | 12.70 | -7.44 | -40.00 | -17.13 |

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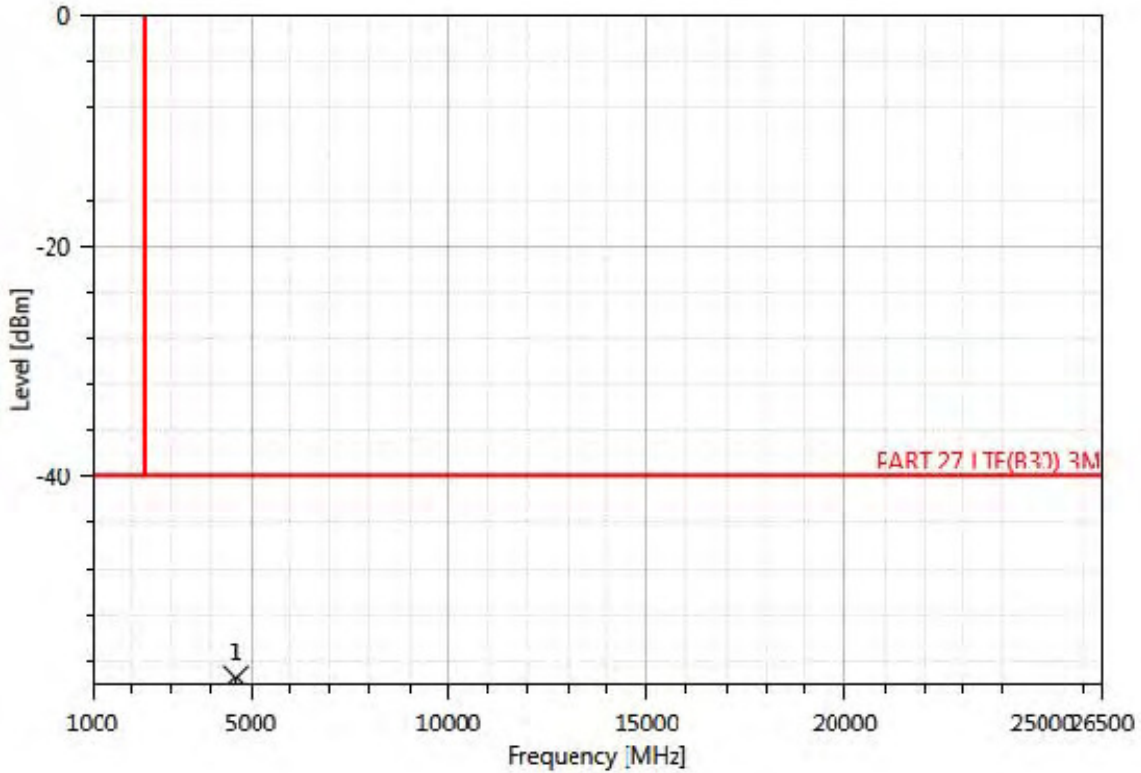
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| | | | |
|-------------------------|------------|----------------------------|------------------|
| Operation Mode : | LTE B30 | Test Date : | 01/10/2017 |
| Fundamental Frequency : | 2312.5 MHz | Temp. / Humi. : | 22 deg_C / 61 RH |
| Operation Band : | Tx CH HIGH | Test Engineer : | Tin |
| EUT Pol. : | E1 Plane | Measurement Antenna Pol. : | HORIZONTAL |



| Freq. | Note | Decetor Mode | EIRP Level | SG Output Level | Antenna Gain | Cable Loss | Limit @3m | Margin |
|---------|---------|--------------|------------|-----------------|--------------|------------|-----------|--------|
| MHz | F/H/E/S | QP/AV/PK | dBm | dBm | dBi | dB | dBm | dB |
| 4625.00 | H | Peak | -57.45 | -62.71 | 12.70 | -7.44 | -40.00 | -17.45 |

~ End of Report ~

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