

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

Applicant: HP Inc.
1501 Page Mill Road, Palo Alto CA 94304 USA

Product Name: Notebook Computer

Brand Name: HP

Model No.: HSN-I41C

Model Difference: N/A

Report Number: ER/2020/80144

FCC ID B94HNI41CTKR

FCC Rule Part: 2, 22H & 24E & 27 C & 90S

Issue Date: Oct. 28, 2020

Date of Test: Aug. 31, 2020 ~ Sep. 30, 2020

Date of EUT Received: Aug. 31, 2020

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26-2015 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 partial report relate only to the tested sample identified in this report.

Approved By:



Jim Chang / Manager



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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Revision History

| Report Number | Revision | Description | Issue Date | Remark |
|---------------|----------|-------------|---------------|----------------------------|
| ER/2020/80144 | Rev.00 | Original. | Oct. 28, 2020 | Revised By: Karen Huang |
| | | | | |

Note:

1、Disclaimer

Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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1 GENERAL PRODUCT INFORMATION

1.1 Product Description

General:

| | | |
|-------------------|--|--|
| Product Name: | Notebook Computer | |
| Brand Name: | HP | |
| Model No.: | HSN-I41C | |
| Model Difference: | N/A | |
| Hardware Version: | N/A | |
| Software Version: | N/A | |
| WWAN Module: | Model No.: T99W175, Supplier: HON LIN Technology Co., Ltd. | |
| Power Supply: | 11.55Vdc from Rechargeable Li-ion Battery or 5V / 9V / 12V / 15V / 20V from AC/DC Adapter | |
| | Battery: | Model No.: HSTNN-LB8Q, Supplier: HP |
| | Adapter: | Model No.: TPN-CA21, Supplier: Chicony |
| IMEI: | AWAN:356081110010618 WNC:356081110008406 | |

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1.2 Operation Frequency Range

| Operating Frequency (MHz) | |
|---------------------------|-----------------|
| WCDMA / HSPA+ Band II | 1852.4 - 1907.6 |
| WCDMA / HSPA+ Band IV | 1712.4 - 1752.6 |
| WCDMA / HSPA+ Band V | 826.4 - 846.6 |

| LTE Band 2 | | | | LTE Band 4 | | | |
|-------------|---------------------------|---|--------|-------------|---------------------------|---|--------|
| BW (MHz) | Operation Frequency (MHz) | | | BW (MHz) | Operation Frequency (MHz) | | |
| 1.4 | 1850.7 | - | 1909.3 | 1.4 | 1710.7 | - | 1754.3 |
| 3 | 1851.5 | - | 1908.5 | 3 | 1711.5 | - | 1753.5 |
| 5 | 1852.5 | - | 1907.5 | 5 | 1712.5 | - | 1752.5 |
| 10 | 1855.0 | - | 1905.0 | 10 | 1715.0 | - | 1750.0 |
| 15 | 1857.5 | - | 1902.5 | 15 | 1717.5 | - | 1747.5 |
| 20 | 1860.0 | - | 1900.0 | 20 | 1720.0 | - | 1745.0 |
| LTE Band 5 | | | | LTE Band 7 | | | |
| BW (MHz) | Operation Frequency (MHz) | | | BW (MHz) | Operation Frequency (MHz) | | |
| 1.4 | 824.7 | - | 848.3 | 5 | 2502.5 | - | 2567.5 |
| 3 | 825.5 | - | 847.5 | 10 | 2505.0 | - | 2565.0 |
| 5 | 826.5 | - | 846.5 | 15 | 2507.5 | - | 2562.5 |
| 10 | 829.0 | - | 844.0 | 20 | 2510.0 | - | 2560.0 |
| LTE Band 12 | | | | LTE Band 13 | | | |
| BW (MHz) | Operation Frequency (MHz) | | | BW (MHz) | Operation Frequency (MHz) | | |
| 1.4 | 699.7 | - | 715.3 | 10 | 782.0 | | |
| 3 | 700.5 | - | 714.5 | | | | |
| 5 | 701.5 | - | 713.5 | | | | |
| 10 | 704.0 | - | 711.0 | | | | |
| LTE Band 14 | | | | LTE Band 17 | | | |
| BW (MHz) | Operation Frequency (MHz) | | | BW (MHz) | Operation Frequency (MHz) | | |
| 5 | 790.5 | - | 795.5 | 5 | 706.5 | - | 713.5 |
| 10 | 793.0 | | | 10 | 709.0 | - | 711.0 |

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| LTE Band 25 | | | | LTE Band 26 | | | |
|-------------|---------------------------|---|--------|-------------|---------------------------|---|-------|
| BW (MHz) | Operation Frequency (MHz) | | | BW (MHz) | Operation Frequency (MHz) | | |
| 1.4 | 1850.7 | - | 1914.3 | 1.4 | 824.7 | - | 848.3 |
| 3 | 1851.5 | - | 1913.5 | 3 | 825.5 | - | 847.5 |
| 5 | 1852.5 | - | 1912.5 | 5 | 826.5 | - | 846.5 |
| 10 | 1855.0 | - | 1910.0 | 10 | 829.0 | - | 844.0 |
| 15 | 1857.5 | - | 1907.5 | 15 | 831.5 | - | 841.5 |
| 20 | 1860.0 | - | 1905.0 | | | | |

| LTE Band 26 Part 90 | | | | LTE Band 30 | | | |
|---------------------|---------------------------|---|-------|-------------|---------------------------|---|--------|
| BW (MHz) | Operation Frequency (MHz) | | | BW (MHz) | Operation Frequency (MHz) | | |
| 1.4 | 814.7 | - | 823.3 | 5 | 2307.5 | - | 2312.5 |
| 3 | 815.5 | - | 822.5 | 10 | 2310.0 | | |
| 5 | 816.5 | - | 821.5 | | | | |
| 10 | 819.0 | | | | | | |

| LTE Band 38 | | | | LTE Band 41 | | | |
|-------------|---------------------------|---|--------|-------------|---------------------------|---|--------|
| BW (MHz) | Operation Frequency (MHz) | | | BW (MHz) | Operation Frequency (MHz) | | |
| 5 | 2572.5 | - | 2617.5 | 5 | 2498.5 | - | 2687.5 |
| 10 | 2575.0 | - | 2615.0 | 10 | 2501.0 | - | 2685.0 |
| 15 | 2577.5 | - | 2612.5 | 15 | 2503.5 | - | 2682.5 |
| 20 | 2580.0 | - | 2610.0 | 20 | 2506.0 | - | 2680.0 |

| LTE Band 66 | | | |
|-------------|---------------------------|---|--------|
| BW (MHz) | Operation Frequency (MHz) | | |
| 1.4 | 1710.7 | - | 1779.3 |
| 3 | 1711.5 | - | 1778.5 |
| 5 | 1712.5 | - | 1777.5 |
| 10 | 1715.0 | - | 1775.0 |
| 15 | 1717.5 | - | 1772.5 |
| 20 | 1720.0 | - | 1770.0 |

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1.3 Antenna Designation

| Vendor | Type | TX1 / TX2 | Antenna Part No. | Modulation | Frequency (MHz) | Peak Antenna Gain (dBi) |
|--------------------------|-------------|-----------|-----------------------------|--------------------------|-----------------|-------------------------|
| AWAN | PIFA | TX1 | 6036B0255901 (AUP6Y-100025) | WCDMA / HSPA Band II | 1850 ~ 1910 | 1.68 |
| | | | | WCDMA / HSPA Band IV | 1710 ~ 1755 | -1.27 |
| | | | | WCDMA / HSPA Band V | 824 ~ 849 | -3.75 |
| | | | | LTE Band 2 or 5G NR n2 | 1850 ~ 1910 | 1.68 |
| | | | | LTE Band 4 | 1710 ~ 1755 | -1.27 |
| | | | | LTE Band 5 or 5G NR n5 | 824 ~ 849 | -3.75 |
| | | | | LTE Band 7 | 2500 ~ 2570 | -1.05 |
| | | | | LTE Band 12 or 5G NR n12 | 699 ~ 716 | -1.02 |
| | | | | LTE Band 13 | 777 ~ 787 | -2.5 |
| | | | | LTE Band 14 | 788 ~ 798 | -2.33 |
| | | | | LTE Band 17 | 704 ~ 716 | -3.51 |
| | | | | LTE Band 25 | 1850 ~ 1915 | 1.68 |
| | | | | LTE Band 26 | 824 ~ 849 | -3.75 |
| | | | | LTE Band 26 Part 90S | 814 ~ 824 | -3.93 |
| | | | | LTE Band 30 | 2305 ~ 2315 | 2.08 |
| LTE Band 38 | 2570 ~ 2620 | -0.38 | | | | |
| LTE Band 41 (HPUE) | 2496 ~ 2690 | 0.74 | | | | |
| LTE Band 66 or 5G NR n66 | 1710 ~ 1780 | -1.27 | | | | |

| Vendor | Type | TX1 / TX2 | Antenna Part No. | Modulation | Frequency (MHz) | Peak Antenna Gain (dBi) |
|--------------------------|-------------|-----------|--------------------------|--------------------------|-----------------|-------------------------|
| HONG-BO | PIFA | TX1 | 6036B0257701 (260-27365) | WCDMA / HSPA Band II | 1850 ~ 1910 | -0.81 |
| | | | | WCDMA / HSPA Band IV | 1710 ~ 1755 | -2.26 |
| | | | | WCDMA / HSPA Band V | 824 ~ 849 | -0.78 |
| | | | | LTE Band 2 or 5G NR n2 | 1850 ~ 1910 | -0.81 |
| | | | | LTE Band 4 | 1710 ~ 1755 | -2.26 |
| | | | | LTE Band 5 or 5G NR n5 | 824 ~ 849 | -0.78 |
| | | | | LTE Band 7 | 2500 ~ 2570 | 0.22 |
| | | | | LTE Band 12 or 5G NR n12 | 699 ~ 716 | -1.2 |
| | | | | LTE Band 13 | 777 ~ 787 | -2.13 |
| | | | | LTE Band 14 | 788 ~ 798 | -1.82 |
| | | | | LTE Band 17 | 704 ~ 716 | -1.2 |
| | | | | LTE Band 25 | 1850 ~ 1915 | -0.81 |
| | | | | LTE Band 26 | 824 ~ 849 | -0.78 |
| | | | | LTE Band 26 Part 90S | 814 ~ 824 | -0.78 |
| | | | | LTE Band 30 | 2305 ~ 2315 | 0.58 |
| LTE Band 38 | 2570 ~ 2620 | 0.03 | | | | |
| LTE Band 41 (HPUE) | 2496 ~ 2690 | 0.22 | | | | |
| LTE Band 66 or 5G NR n66 | 1710 ~ 1780 | -2.26 | | | | |

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| Vendor | Type | TX1 / TX2 | Antenna Part No. | Modulation | Frequency (MHz) | Peak Antenna Gain (dBi) |
|--------------------------|-------------|-----------|-----------------------------|--------------------------|-----------------|-------------------------|
| WNC | PIFA | TX1 | 6036B0253201 (81EABB15.G35) | WCDMA / HSPA Band II | 1850 ~ 1910 | 0.22 |
| | | | | WCDMA / HSPA Band IV | 1710 ~ 1755 | -1.11 |
| | | | | WCDMA / HSPA Band V | 824 ~ 849 | 0.08 |
| | | | | LTE Band 2 or 5G NR n2 | 1850 ~ 1910 | 0.22 |
| | | | | LTE Band 4 | 1710 ~ 1755 | -1.11 |
| | | | | LTE Band 5 or 5G NR n5 | 824 ~ 849 | 0.08 |
| | | | | LTE Band 7 | 2500 ~ 2570 | -0.19 |
| | | | | LTE Band 12 or 5G NR n12 | 699 ~ 716 | -1.73 |
| | | | | LTE Band 13 | 777 ~ 787 | -1.47 |
| | | | | LTE Band 14 | 788 ~ 798 | -1.89 |
| | | | | LTE Band 17 | 704 ~ 716 | -1.73 |
| | | | | LTE Band 25 | 1850 ~ 1915 | 0.22 |
| | | | | LTE Band 26 | 824 ~ 849 | 0.08 |
| | | | | LTE Band 26 Part 90S | 824 ~ 824 | -1.08 |
| | | | | LTE Band 30 | 2305 ~ 2315 | 2.7 |
| LTE Band 38 | 2570 ~ 2620 | -1.3 | | | | |
| LTE Band 41 (HPUE) | 2496 ~ 2690 | -0.19 | | | | |
| LTE Band 66 or 5G NR n66 | 1710 ~ 1780 | -1.11 | | | | |

| Vendor | Type | TX1 / TX2 | Antenna Part No. | Modulation | Frequency (MHz) | Peak Antenna Gain (dBi) |
|--------|------|-----------|-----------------------------|--------------------------|-----------------|-------------------------|
| AWAN | PIFA | TX2 | 6036B0281501 (AUP6Y-100070) | LTE Band 2 or 5G NR n2 | 1850 ~ 1910 | -1.71 |
| | | | | LTE Band 7 or 5G NR n7 | 2500 ~ 2570 | -3.15 |
| | | | | LTE Band 42 | 3400 ~ 3600 | -2.7 |
| | | | | LTE Band 48 | 3550 ~ 3700 | -4.35 |
| | | | | LTE Band 66 or 5G NR n66 | 1710 ~ 1780 | -2.7 |

| Vendor | Type | TX1 / TX2 | Antenna Part No. | Modulation | Frequency (MHz) | Peak Antenna Gain (dBi) |
|---------|------|-----------|--------------------------|--------------------------|-----------------|-------------------------|
| HONG-BO | PIFA | TX2 | 6036B0278701 (260-27437) | LTE Band 2 or 5G NR n2 | 1850 ~ 1910 | -1.82 |
| | | | | LTE Band 7 or 5G NR n7 | 2500 ~ 2570 | -3.77 |
| | | | | LTE Band 42 | 3400 ~ 3600 | -1.44 |
| | | | | LTE Band 48 | 3550 ~ 3700 | -2.26 |
| | | | | LTE Band 66 or 5G NR n66 | 1710 ~ 1780 | -1.52 |

| Vendor | Type | TX1 / TX2 | Antenna Part No. | Modulation | Frequency (MHz) | Peak Antenna Gain (dBi) |
|--------|------|-----------|-----------------------------|--------------------------|-----------------|-------------------------|
| WNC | PIFA | TX2 | 6036B0277201 (81EABD15.G04) | LTE Band 2 or 5G NR n2 | 1850 ~ 1910 | 0.5 |
| | | | | LTE Band 7 or 5G NR n7 | 2500 ~ 2570 | -1.95 |
| | | | | LTE Band 42 | 3400 ~ 3600 | -2.6 |
| | | | | LTE Band 48 | 3550 ~ 3700 | -1.74 |
| | | | | LTE Band 66 or 5G NR n66 | 1710 ~ 1780 | 0.32 |

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1.4 Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22H, 24E, 27C, Part 90

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

KDB941225 D01 SAR test for 3G devices v03r01 (SAR Measurement Procedures for 3G Devices, WCDMA / HSPA) was used for EUT and Base station setting.

KDB412172 D01 Determining ERP and EIRP v01r01

1.5 Test Facility

SGS Taiwan Ltd. Central RF Lab (TAF code 3702)

No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803

FCC Designation number: TW0027

1.6 Special Accessories

No special accessories were used during testing.

1.7 Equipment Modifications

There was no modifications incorporated into the EUT.

1.8 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*9m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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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

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Radiated Emissions (ERP/EIRP)

The EUT is placed on a turn table, for emission measurements below 1 GHz is 0.8 m above 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 hand-held 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 according to the requirements in Section 8 and 13.

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2.4 Configuration of Tested System

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

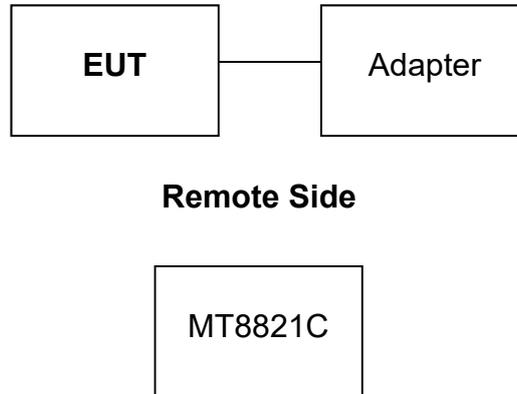


Table 2-1 Equipment Used in

| Item | Equipment | Mfr/Brand | Model/ Type No. | Series No. | Data Cable | Power Cord |
|------|------------------------------|-----------|--------------------|------------|------------|-------------|
| 1. | Radio Communication Analyzer | Anritsu | MT8821C | 6261786084 | shielded | Un-shielded |

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3 SUMMARY OF TEST RESULTS

| FCC Rules | Description Of Test | Result |
|---|--|-----------|
| §2.1053 §22.917(a) §24.238(a) §27.53(a) §27.53(c)(f) §27.53(g) §27.53(h) §27.53(m)(2) §90.543(e)(3) §90.543 (f) §90.691 | 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. The field strength of radiation emission was measured as NB Plane for Transmitter for channel Low, Mid and High.

4.2 Measurement Configuration

| LTE Band | Test Channel | Channel Band-width (MHz) | Modulation | Resource Block Allocation | | Antenna Type |
|----------|--------------|--------------------------|------------|---------------------------|----------|--------------|
| | | | | RBs allocated | RB Start | |
| 14 | L,M,H | 5 | QPSK | 1 | 0 | WNC |
| 14 | Mid | 10 | QPSK | 1 | 0 | WNC |
| 26 | L,M,H | 5 | QPSK | Full | | WNC |
| 26 | L,M,H | 10 | QPSK | Full | | WNC |
| 26 | L,M,H | 15 | QPSK | Full | | WNC |
| 26(90) | L,M,H | 15 | QPSK | Full | | WNC |
| 26(90) | Mid | 15 | QPSK | Full | | WNC |
| 30 | L,M,H | 5 | QPSK | 1 | 0 | WNC |
| 30 | Mid | 10 | QPSK | 1 | 0 | WNC |
| 41 | L,M,H | 20 | QPSK | Full | | AWAN |

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5 MEASUREMENT UNCERTAINTY

| Test Items | Uncertainty |
|-----------------------|--|
| RF Power Output | +/- 1.10 dB |
| ERP/ EIRP measurement | Vertical Polarization = +/- 4.74dB Horizontal Polarization = +/- 4.62dB |
| 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 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

6.1 Standard Applicable

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53(h), §90.691

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(a) for LTE B30

For operations in the 2305-2320 MHz band and the 2345-2360 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power P (with averaging performed only during periods of transmission) within the licensed band(s) of operation, in watts, by the following amounts:

- (4) For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:
 - (ii) By a factor of not less than $70 + 10 \log(P)$ dB below 2288 MHz;
 - (iii) By a factor of not less than $70 + 10 \log(P)$ dB above 2365 MHz.

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, 71

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.

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FCC §27.53(h)(3) for LTE B4, 66

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 frequencies 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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§90.691 Emission mask requirements for EA-based systems for LTE B26

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log₁₀(f/6.1) decibels or 50 + 10 Log₁₀(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log₁₀(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

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) ^{Note} |
| 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) ^{Note} |
| 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.

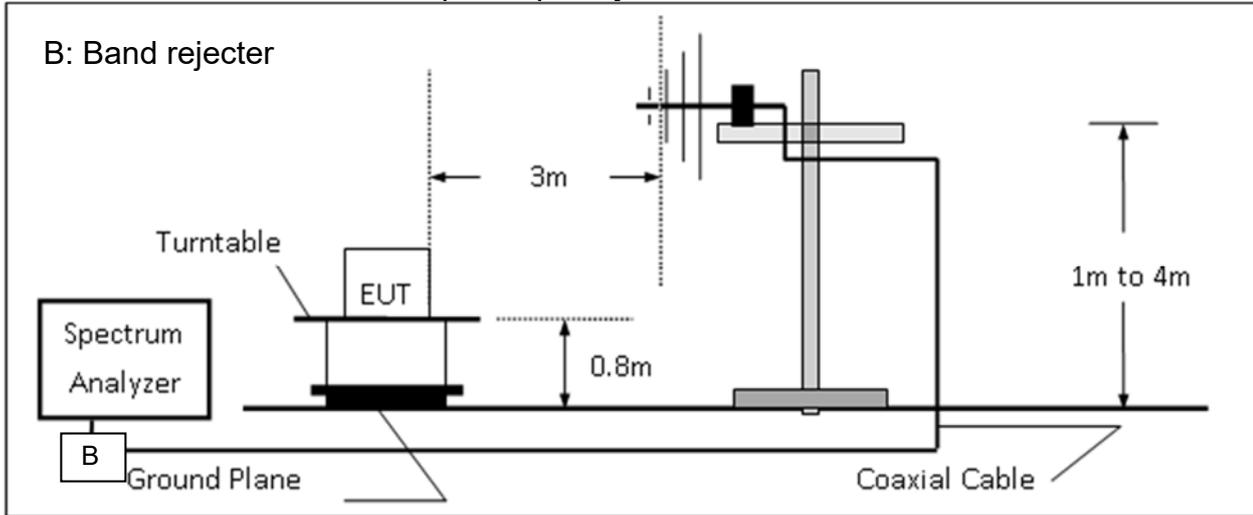
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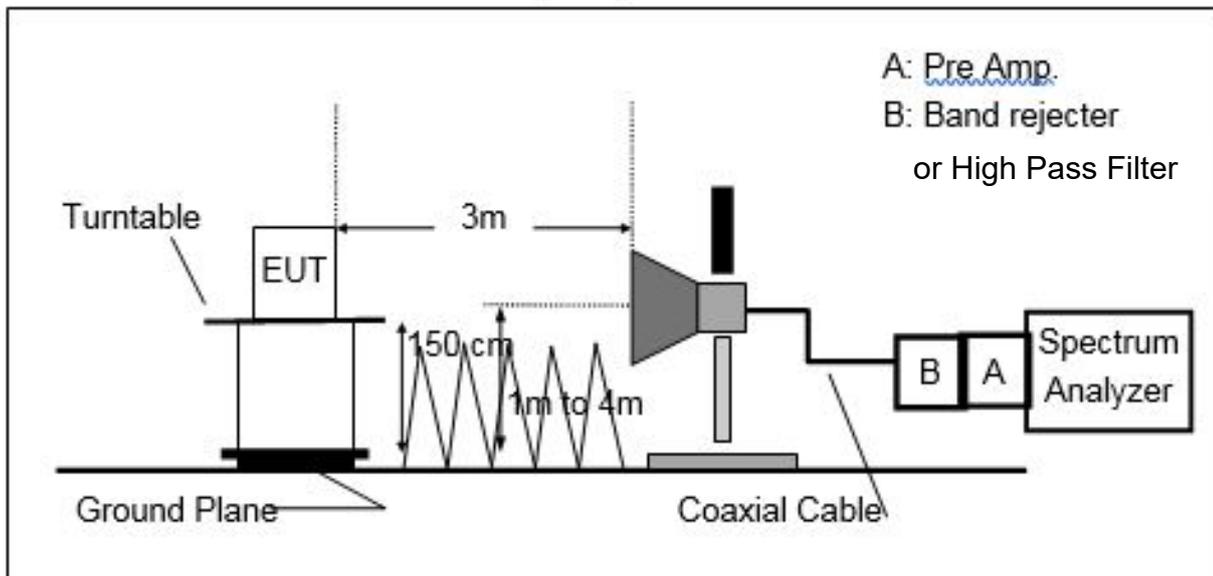
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6.2 EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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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.

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

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

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6.4 Measurement Equipment Used:

| ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber | | | | | |
|--|-----------------|--------------------|------------------|------------|------------|
| 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 | MT8821C | 6261786084 | 01/18/2020 | 01/17/2021 |
| EMI Test Receiver | R&S | ESCI 7 | 100759 | 07/13/2020 | 07/12/2021 |
| 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 |
| Filter 3300-3800 | Micro-Tronics | WI | 1 | 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-10SS | 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 |

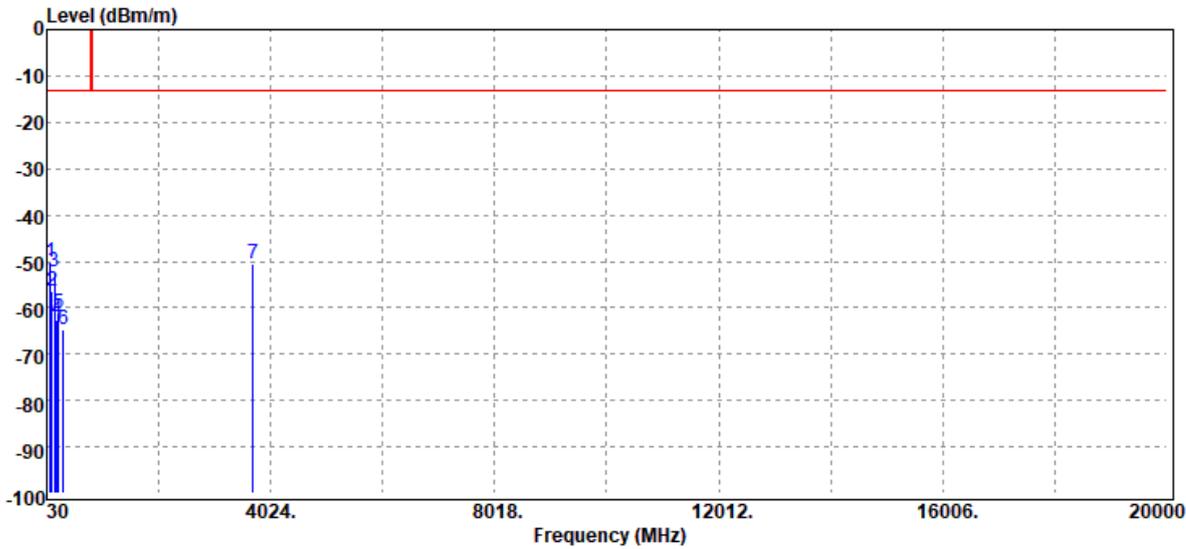
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6.5 Measurement Result:

| | | | |
|----------------|----------------|--------------|----------------|
| Report Number | :ER/2020/80144 | Test Site | :SAC I Chamber |
| Operation Mode | :WCDMA B2 | Test Date | :2020-09-17 |
| Test Mode | :Tx CH Low | Temp./Humi. | :25.0/69 |
| EUT Pol | :NB Plane | Antenna Pol. | :VERTICAL |
| Test Frequency | :1852.4 MHz | Engineer | :Neo |



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 100.81 | -50.07 | -42.92 | -6.20 | -0.95 | -13.00 | -37.07 |
| 120.21 | -56.34 | -47.93 | -7.35 | -1.06 | -13.00 | -43.34 |
| 172.59 | -52.20 | -45.45 | -5.49 | -1.26 | -13.00 | -39.20 |
| 217.21 | -62.73 | -59.62 | -1.74 | -1.37 | -13.00 | -49.73 |
| 243.40 | -61.39 | -58.16 | -1.74 | -1.49 | -13.00 | -48.39 |
| 330.70 | -64.63 | -61.17 | -1.75 | -1.71 | -13.00 | -51.63 |
| 3704.80 | -50.37 | -56.92 | 12.40 | -5.85 | -13.00 | -37.37 |

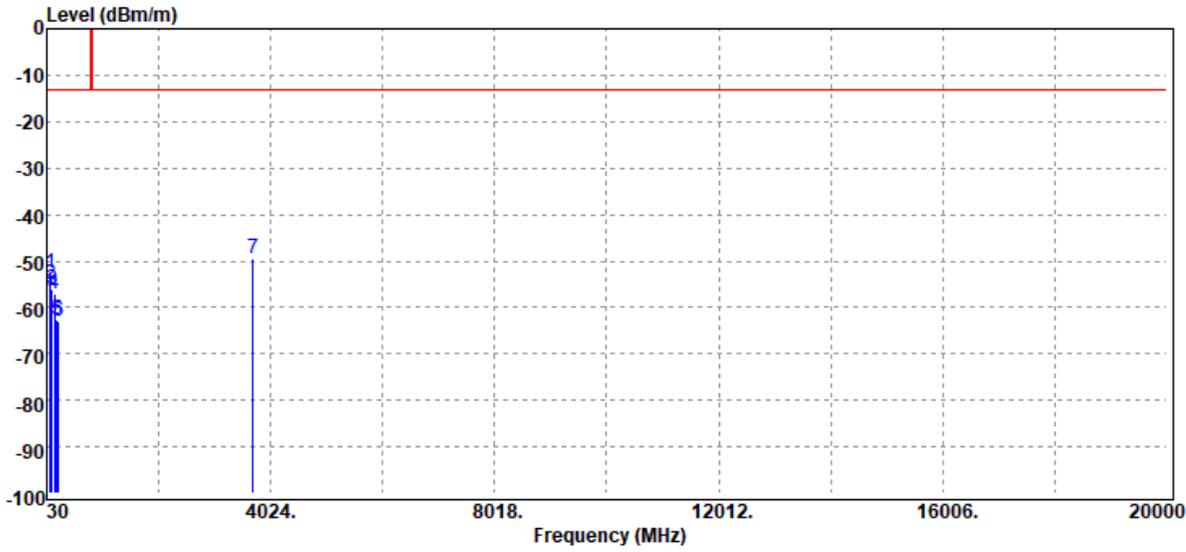
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Report Number :ER/2020/80144
 Operation Mode :WCDMA B2
 Test Mode :Tx CH Low
 EUT Pol :NB Plane
 Test Frequency :1852.4 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 94.99 | -52.48 | -45.98 | -5.57 | -0.93 | -13.00 | -39.48 |
| 100.81 | -55.13 | -47.98 | -6.20 | -0.95 | -13.00 | -42.13 |
| 120.21 | -56.01 | -47.60 | -7.35 | -1.06 | -13.00 | -43.01 |
| 170.65 | -57.08 | -49.99 | -5.82 | -1.27 | -13.00 | -44.08 |
| 217.21 | -62.70 | -59.59 | -1.74 | -1.37 | -13.00 | -49.70 |
| 243.40 | -62.96 | -59.73 | -1.74 | -1.49 | -13.00 | -49.96 |
| 3704.80 | -49.60 | -56.15 | 12.40 | -5.85 | -13.00 | -36.60 |

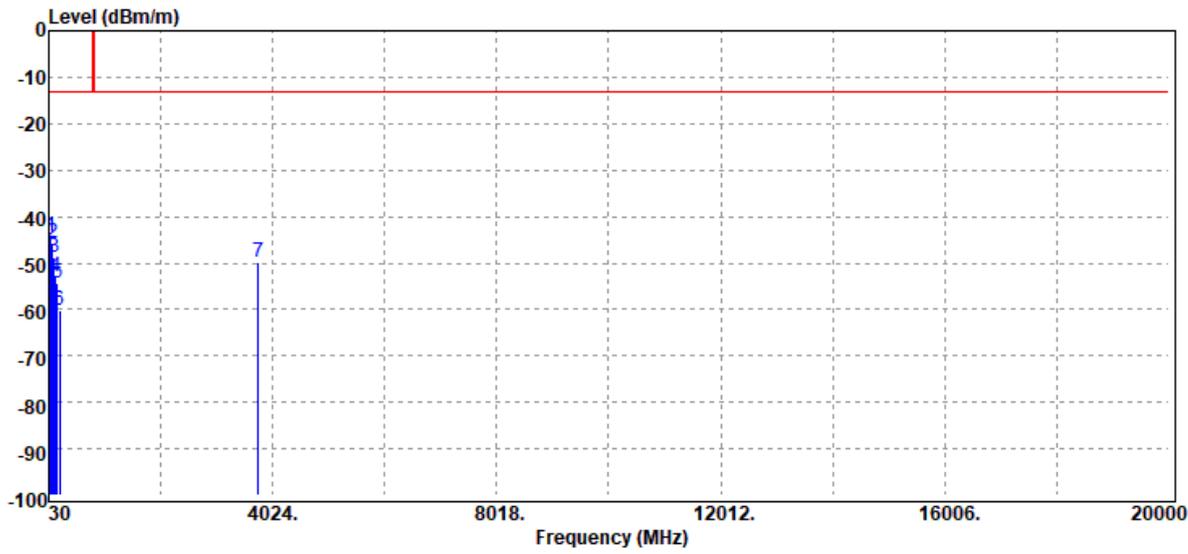
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Report Number :ER/2020/80144
 Operation Mode :WCDMA B2
 Test Mode :Tx CH Mid
 EUT Pol :NB Plane
 Test Frequency :1880 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :VERTICAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 61.04 | -44.44 | -29.08 | -14.61 | -0.75 | -13.00 | -31.44 |
| 97.90 | -45.51 | -38.78 | -5.79 | -0.94 | -13.00 | -32.51 |
| 120.21 | -48.84 | -40.43 | -7.35 | -1.06 | -13.00 | -35.84 |
| 159.01 | -52.83 | -44.62 | -7.00 | -1.21 | -13.00 | -39.83 |
| 175.50 | -54.43 | -48.25 | -4.94 | -1.24 | -13.00 | -41.43 |
| 225.94 | -60.11 | -57.41 | -1.30 | -1.40 | -13.00 | -47.11 |
| 3760.00 | -49.66 | -56.32 | 12.40 | -5.74 | -13.00 | -36.66 |

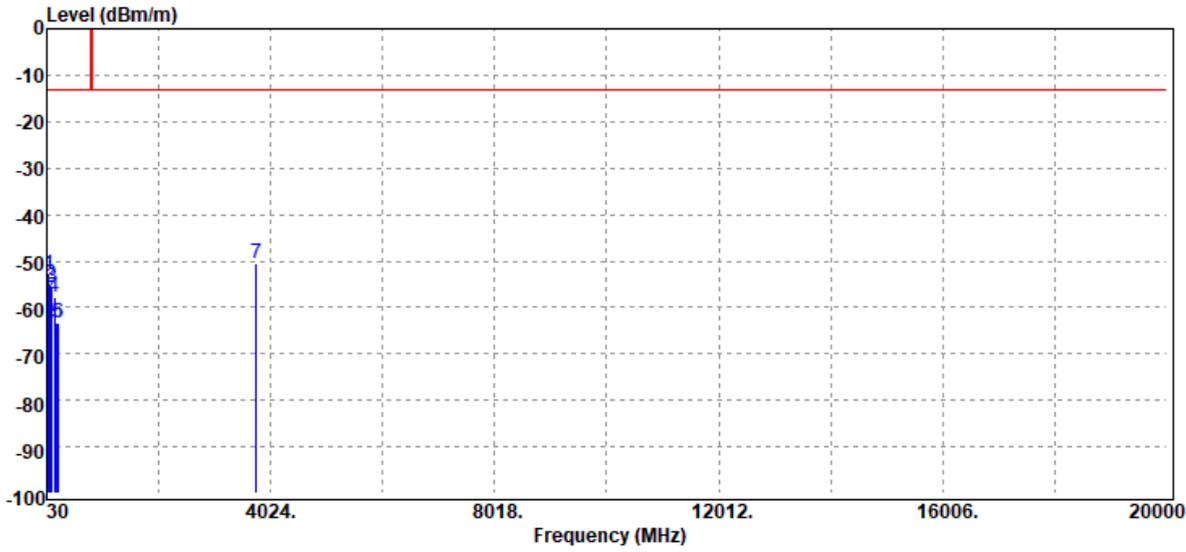
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Report Number :ER/2020/80144
Operation Mode :WCDMA B2
Test Mode :Tx CH Mid
EUT Pol :NB Plane
Test Frequency :1880 MHz

Test Site :SAC I Chamber
Test Date :2020-09-17
Temp./Humi. :25.0/69
Antenna Pol. :HORIZONTAL
Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 65.89 | -52.97 | -39.09 | -13.09 | -0.79 | -13.00 | -39.97 |
| 95.96 | -54.87 | -48.36 | -5.58 | -0.93 | -13.00 | -41.87 |
| 120.21 | -55.86 | -47.45 | -7.35 | -1.06 | -13.00 | -42.86 |
| 170.65 | -57.63 | -50.54 | -5.82 | -1.27 | -13.00 | -44.63 |
| 217.21 | -63.17 | -60.06 | -1.74 | -1.37 | -13.00 | -50.17 |
| 243.40 | -63.41 | -60.18 | -1.74 | -1.49 | -13.00 | -50.41 |
| 3760.00 | -50.40 | -57.06 | 12.40 | -5.74 | -13.00 | -37.40 |

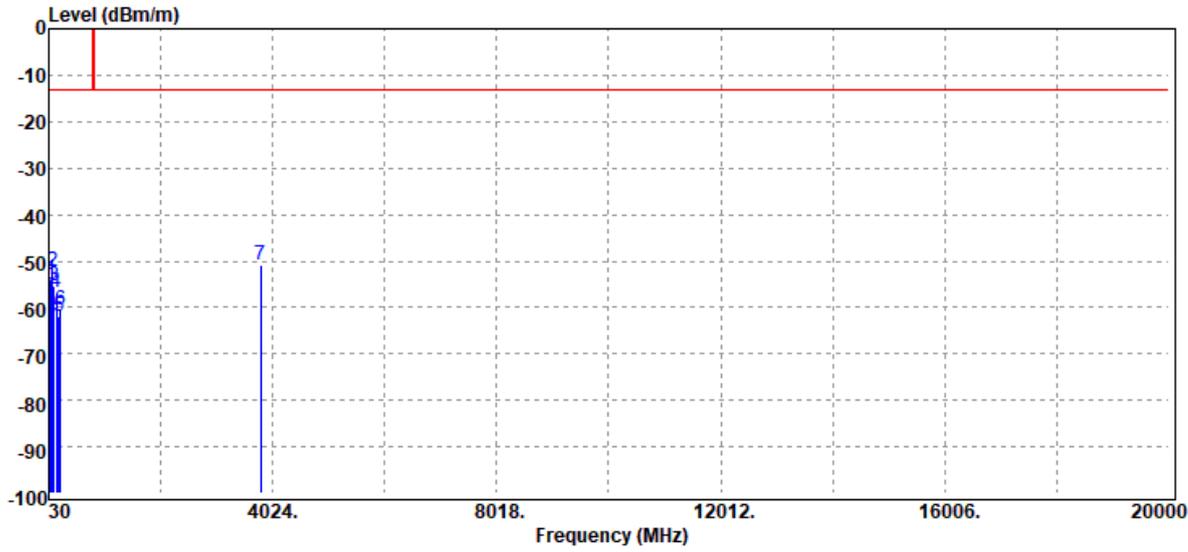
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Report Number :ER/2020/80144
 Operation Mode :WCDMA B2
 Test Mode :Tx CH High
 EUT Pol :NB Plane
 Test Frequency :1907.6 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :VERTICAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 66.86 | -54.09 | -40.29 | -13.01 | -0.79 | -13.00 | -41.09 |
| 100.81 | -52.35 | -45.20 | -6.20 | -0.95 | -13.00 | -39.35 |
| 120.21 | -55.30 | -46.89 | -7.35 | -1.06 | -13.00 | -42.30 |
| 170.65 | -56.59 | -49.50 | -5.82 | -1.27 | -13.00 | -43.59 |
| 217.21 | -61.94 | -58.83 | -1.74 | -1.37 | -13.00 | -48.94 |
| 243.40 | -60.58 | -57.35 | -1.74 | -1.49 | -13.00 | -47.58 |
| 3815.20 | -50.97 | -57.64 | 12.43 | -5.76 | -13.00 | -37.97 |

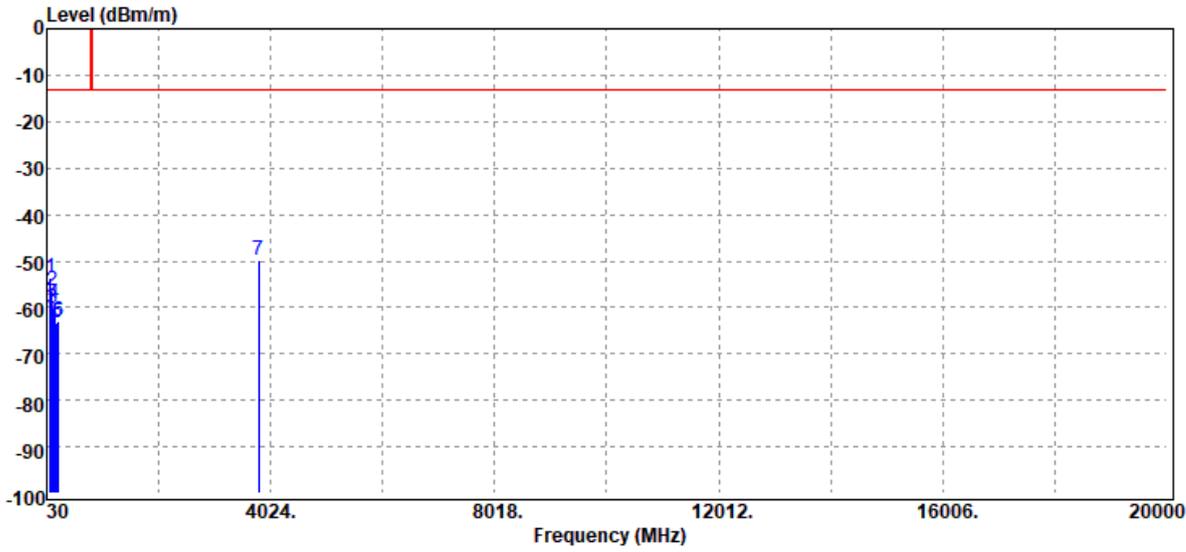
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Report Number :ER/2020/80144
 Operation Mode :WCDMA B2
 Test Mode :Tx CH High
 EUT Pol :NB Plane
 Test Frequency :1907.6 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 95.96 | -53.71 | -47.20 | -5.58 | -0.93 | -13.00 | -40.71 |
| 120.21 | -56.28 | -47.87 | -7.35 | -1.06 | -13.00 | -43.28 |
| 141.55 | -60.33 | -51.31 | -7.91 | -1.11 | -13.00 | -47.33 |
| 170.65 | -59.10 | -52.01 | -5.82 | -1.27 | -13.00 | -46.10 |
| 217.21 | -63.40 | -60.29 | -1.74 | -1.37 | -13.00 | -50.40 |
| 243.40 | -63.00 | -59.77 | -1.74 | -1.49 | -13.00 | -50.00 |
| 3815.20 | -49.81 | -56.48 | 12.43 | -5.76 | -13.00 | -36.81 |

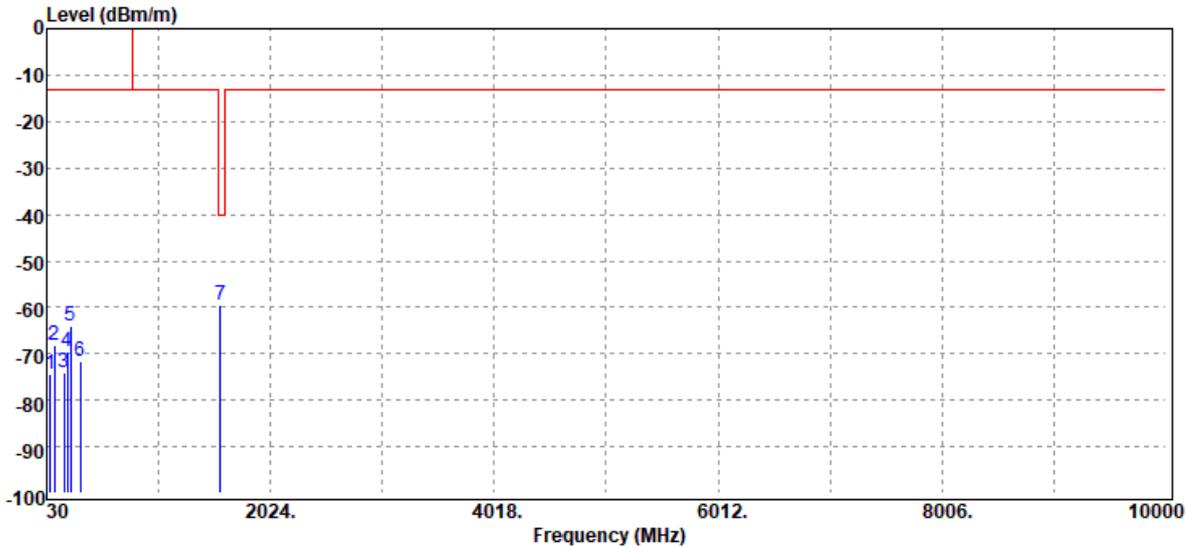
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Report Number :ER/2020/80144
 Operation Mode :LTE B14
 Test Mode :Tx CH Low
 EUT Pol :NB Plane
 Test Frequency :709.5 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :VERTICAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 59.10 | -74.50 | -58.59 | -15.18 | -0.73 | -13.00 | -61.50 |
| 99.84 | -68.04 | -61.08 | -6.01 | -0.95 | -13.00 | -55.04 |
| 188.11 | -74.18 | -69.79 | -3.13 | -1.26 | -13.00 | -61.18 |
| 217.21 | -69.59 | -66.48 | -1.74 | -1.37 | -13.00 | -56.59 |
| 243.40 | -64.17 | -60.94 | -1.74 | -1.49 | -13.00 | -51.17 |
| 328.76 | -71.53 | -68.12 | -1.72 | -1.69 | -13.00 | -58.53 |
| 1581.00 | -59.59 | -65.07 | 9.25 | -3.77 | -40.00 | -19.59 |

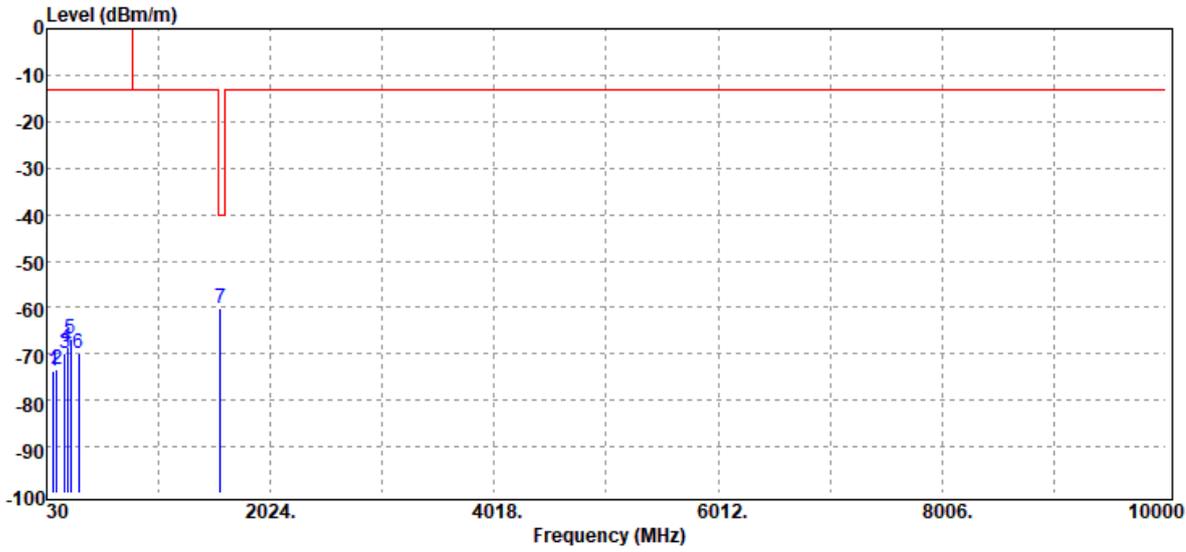
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Report Number :ER/2020/80144
 Operation Mode :LTE B14
 Test Mode :Tx CH Low
 EUT Pol :NB Plane
 Test Frequency :709.5 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 90.14 | -73.73 | -67.02 | -5.81 | -0.90 | -13.00 | -60.73 |
| 119.24 | -73.36 | -64.98 | -7.32 | -1.06 | -13.00 | -60.36 |
| 190.05 | -69.76 | -65.55 | -2.94 | -1.27 | -13.00 | -56.76 |
| 217.21 | -68.42 | -65.31 | -1.74 | -1.37 | -13.00 | -55.42 |
| 243.40 | -66.64 | -63.41 | -1.74 | -1.49 | -13.00 | -53.64 |
| 318.09 | -69.79 | -66.61 | -1.54 | -1.64 | -13.00 | -56.79 |
| 1581.00 | -60.16 | -65.64 | 9.25 | -3.77 | -40.00 | -20.16 |

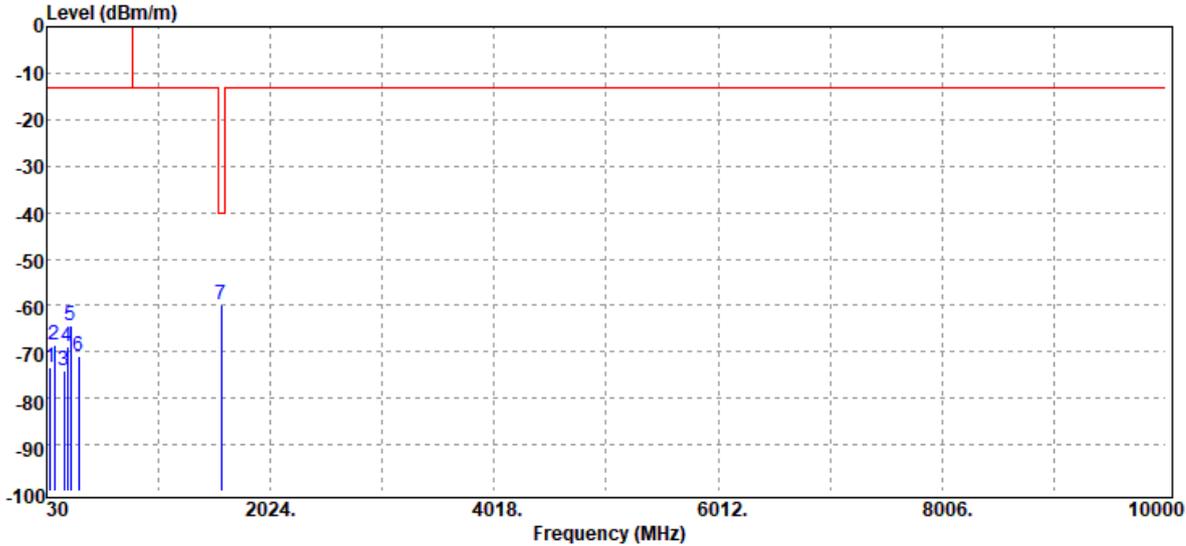
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Report Number :ER/2020/80144
 Operation Mode :LTE B14
 Test Mode :Tx CH Mid
 EUT Pol :NB Plane
 Test Frequency :793 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :VERTICAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 59.10 | -73.52 | -57.61 | -15.18 | -0.73 | -13.00 | -60.52 |
| 97.90 | -68.53 | -61.80 | -5.79 | -0.94 | -13.00 | -55.53 |
| 185.20 | -73.95 | -69.23 | -3.47 | -1.25 | -13.00 | -60.95 |
| 217.21 | -68.73 | -65.62 | -1.74 | -1.37 | -13.00 | -55.73 |
| 243.40 | -64.33 | -61.10 | -1.74 | -1.49 | -13.00 | -51.33 |
| 316.15 | -70.81 | -67.63 | -1.55 | -1.63 | -13.00 | -57.81 |
| 1586.00 | -59.95 | -65.46 | 9.29 | -3.78 | -40.00 | -19.95 |

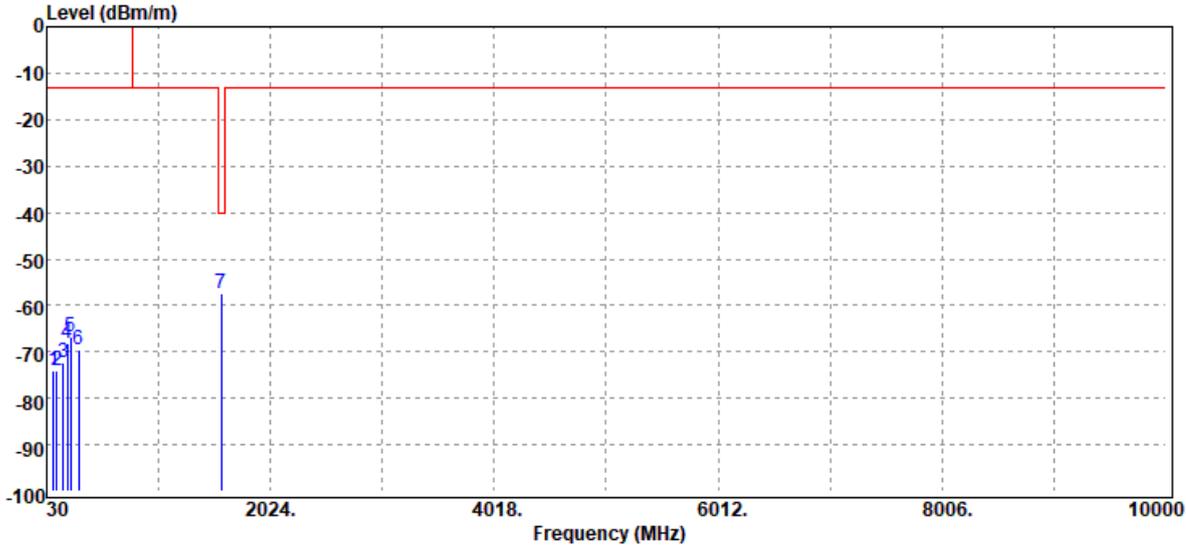
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Report Number :ER/2020/80144
Operation Mode :LTE B14
Test Mode :Tx CH Mid
EUT Pol :NB Plane
Test Frequency :793 MHz

Test Site :SAC I Chamber
Test Date :2020-09-17
Temp./Humi. :25.0/69
Antenna Pol. :HORIZONTAL
Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 88.20 | -73.88 | -66.79 | -6.20 | -0.89 | -13.00 | -60.88 |
| 118.27 | -73.88 | -65.52 | -7.30 | -1.06 | -13.00 | -60.88 |
| 178.41 | -72.31 | -66.62 | -4.46 | -1.23 | -13.00 | -59.31 |
| 217.21 | -68.16 | -65.05 | -1.74 | -1.37 | -13.00 | -55.16 |
| 243.40 | -66.72 | -63.49 | -1.74 | -1.49 | -13.00 | -53.72 |
| 316.15 | -69.46 | -66.28 | -1.55 | -1.63 | -13.00 | -56.46 |
| 1586.00 | -57.45 | -62.96 | 9.29 | -3.78 | -40.00 | -17.45 |

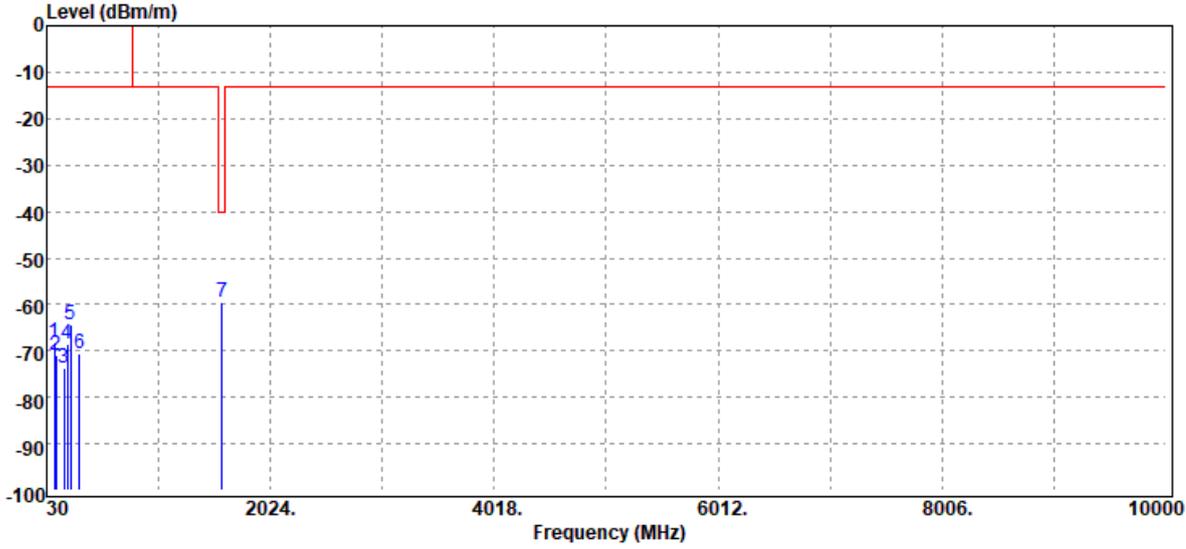
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Report Number :ER/2020/80144
 Operation Mode :LTE B14
 Test Mode :Tx CH High
 EUT Pol :NB Plane
 Test Frequency :795.5 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :VERTICAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 97.90 | -68.29 | -61.56 | -5.79 | -0.94 | -13.00 | -55.29 |
| 109.54 | -70.78 | -62.69 | -7.09 | -1.00 | -13.00 | -57.78 |
| 188.11 | -73.83 | -69.44 | -3.13 | -1.26 | -13.00 | -60.83 |
| 217.21 | -68.57 | -65.46 | -1.74 | -1.37 | -13.00 | -55.57 |
| 243.40 | -64.50 | -61.27 | -1.74 | -1.49 | -13.00 | -51.50 |
| 323.91 | -70.70 | -67.46 | -1.57 | -1.67 | -13.00 | -57.70 |
| 1591.00 | -59.46 | -65.01 | 9.33 | -3.78 | -40.00 | -19.46 |

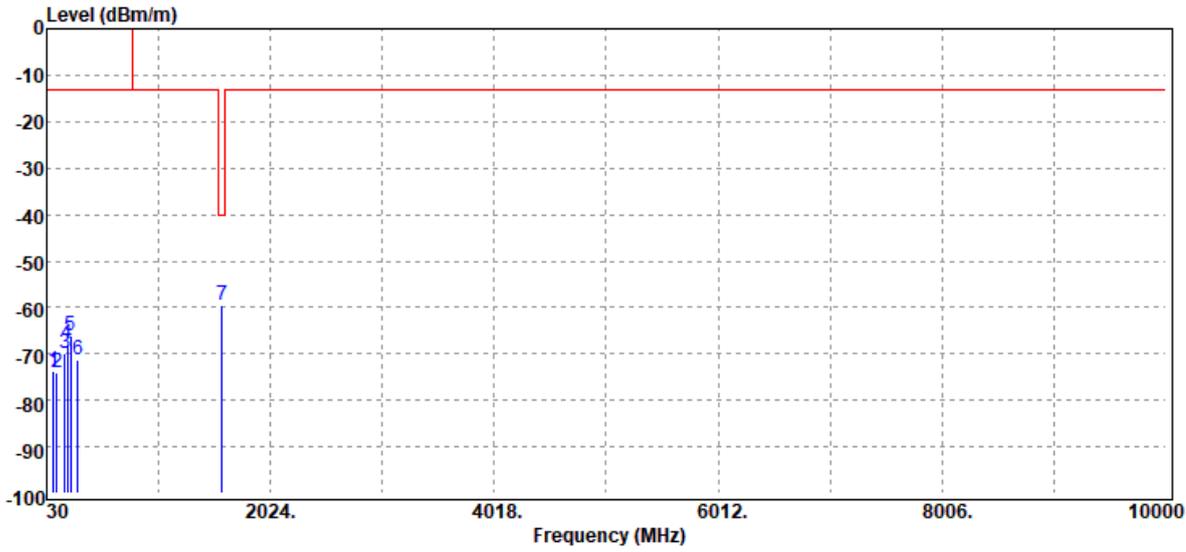
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Report Number :ER/2020/80144
 Operation Mode :LTE B14
 Test Mode :Tx CH High
 EUT Pol :NB Plane
 Test Frequency :795.5 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 93.05 | -73.78 | -67.31 | -5.55 | -0.92 | -13.00 | -60.78 |
| 119.24 | -73.92 | -65.54 | -7.32 | -1.06 | -13.00 | -60.92 |
| 190.05 | -69.74 | -65.53 | -2.94 | -1.27 | -13.00 | -56.74 |
| 217.21 | -67.79 | -64.68 | -1.74 | -1.37 | -13.00 | -54.79 |
| 243.40 | -66.10 | -62.87 | -1.74 | -1.49 | -13.00 | -53.10 |
| 311.30 | -71.38 | -68.19 | -1.59 | -1.60 | -13.00 | -58.38 |
| 1591.00 | -59.46 | -65.01 | 9.33 | -3.78 | -40.00 | -19.46 |

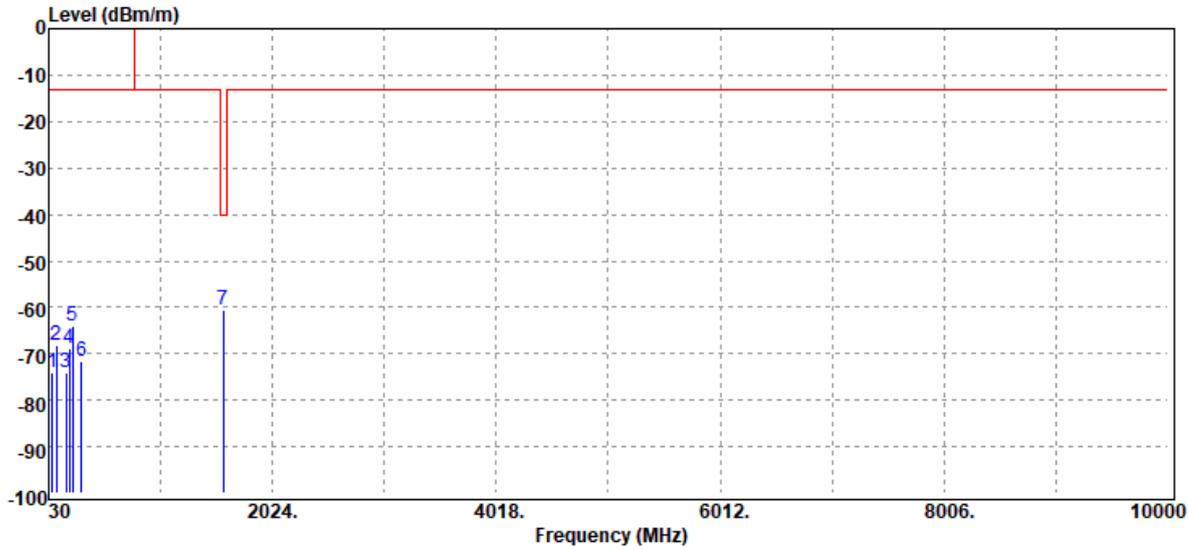
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Report Number :ER/2020/80144
Operation Mode :LTE B14_10M
Test Mode :Tx CH Mid
EUT Pol :NB Plane
Test Frequency :793 MHz

Test Site :SAC I Chamber
Test Date :2020-09-17
Temp./Humi. :25.0/69
Antenna Pol. :VERTICAL
Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 59.10 | -74.12 | -58.21 | -15.18 | -0.73 | -13.00 | -61.12 |
| 99.84 | -68.30 | -61.34 | -6.01 | -0.95 | -13.00 | -55.30 |
| 185.20 | -73.92 | -69.20 | -3.47 | -1.25 | -13.00 | -60.92 |
| 217.21 | -68.83 | -65.72 | -1.74 | -1.37 | -13.00 | -55.83 |
| 243.40 | -63.89 | -60.66 | -1.74 | -1.49 | -13.00 | -50.89 |
| 319.06 | -71.50 | -68.32 | -1.53 | -1.65 | -13.00 | -58.50 |
| 1586.00 | -60.40 | -65.91 | 9.29 | -3.78 | -40.00 | -20.40 |

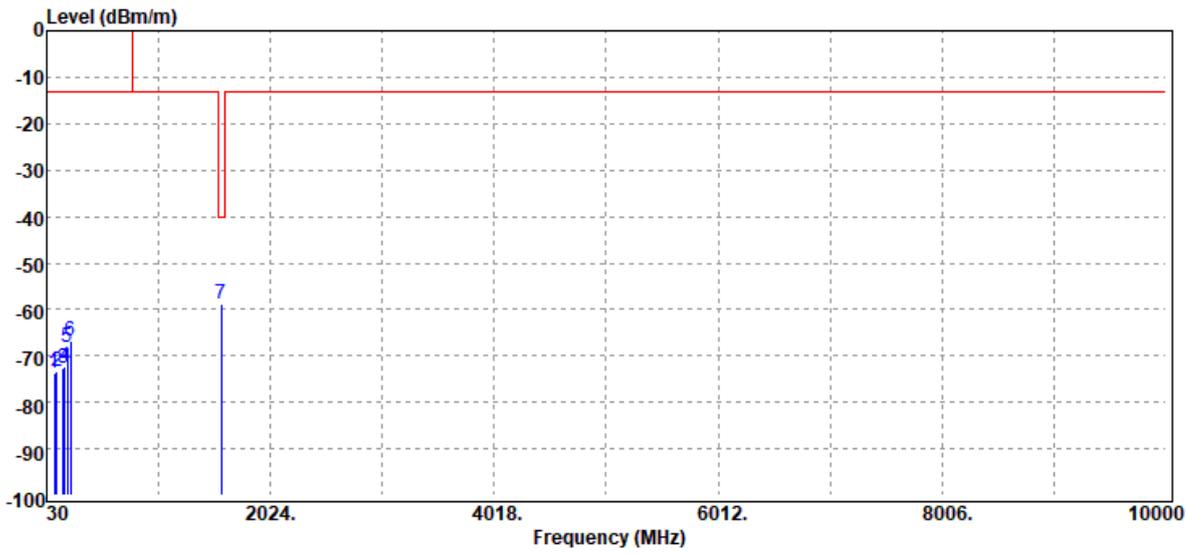
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Report Number :ER/2020/80144
 Operation Mode :LTE B14_10M
 Test Mode :Tx CH Mid
 EUT Pol :NB Plane
 Test Frequency :793 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 95.96 | -73.69 | -67.18 | -5.58 | -0.93 | -13.00 | -60.69 |
| 117.30 | -73.48 | -65.09 | -7.34 | -1.05 | -13.00 | -60.48 |
| 178.41 | -72.68 | -66.99 | -4.46 | -1.23 | -13.00 | -59.68 |
| 190.05 | -72.16 | -67.95 | -2.94 | -1.27 | -13.00 | -59.16 |
| 217.21 | -68.17 | -65.06 | -1.74 | -1.37 | -13.00 | -55.17 |
| 243.40 | -66.86 | -63.63 | -1.74 | -1.49 | -13.00 | -53.86 |
| 1586.00 | -58.85 | -64.36 | 9.29 | -3.78 | -40.00 | -18.85 |

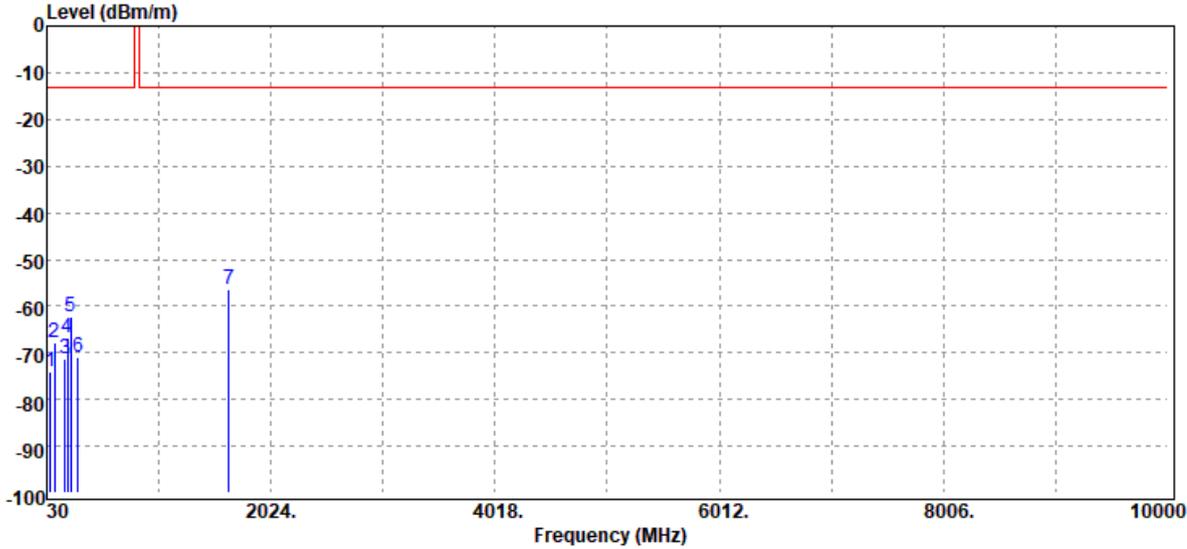
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Report Number :ER/2020/80144
 Operation Mode :LTE B26
 Test Mode :Tx CH Low
 EUT Pol :NB Plane
 Test Frequency :826.5 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :VERTICAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 63.95 | -74.18 | -59.50 | -13.91 | -0.77 | -13.00 | -61.18 |
| 99.84 | -67.97 | -61.01 | -6.01 | -0.95 | -13.00 | -54.97 |
| 190.05 | -71.18 | -66.97 | -2.94 | -1.27 | -13.00 | -58.18 |
| 217.21 | -66.75 | -63.64 | -1.74 | -1.37 | -13.00 | -53.75 |
| 243.40 | -62.24 | -59.01 | -1.74 | -1.49 | -13.00 | -49.24 |
| 309.36 | -70.93 | -67.73 | -1.60 | -1.60 | -13.00 | -57.93 |
| 1653.00 | -56.42 | -62.35 | 9.80 | -3.87 | -13.00 | -43.42 |

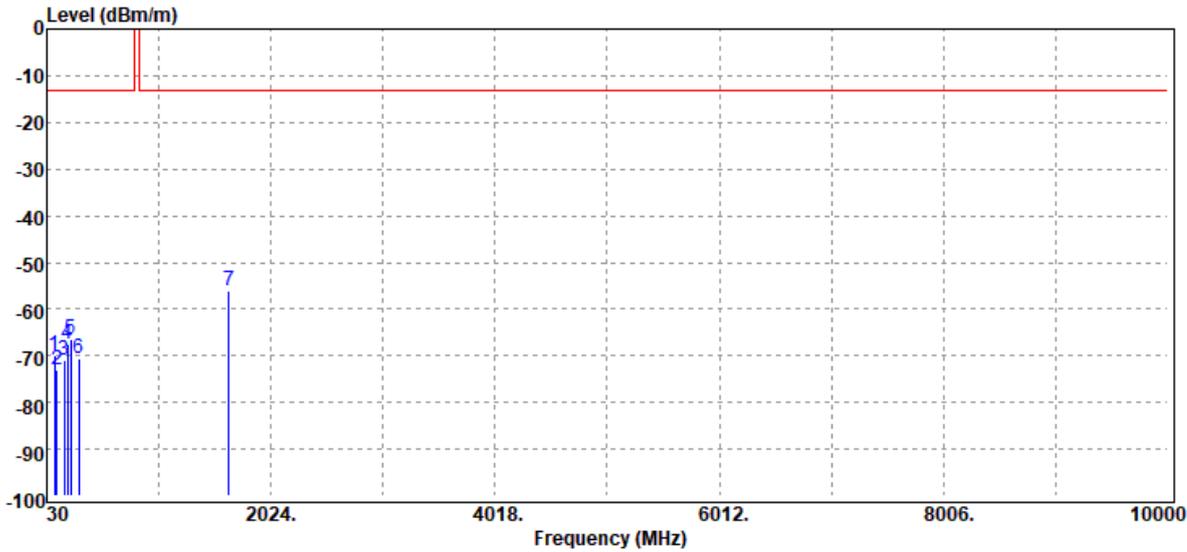
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Report Number :ER/2020/80144
 Operation Mode :LTE B26
 Test Mode :Tx CH Low
 EUT Pol :NB Plane
 Test Frequency :826.5 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 97.90 | -69.78 | -63.05 | -5.79 | -0.94 | -13.00 | -56.78 |
| 119.24 | -73.15 | -64.77 | -7.32 | -1.06 | -13.00 | -60.15 |
| 183.26 | -70.99 | -66.01 | -3.74 | -1.24 | -13.00 | -57.99 |
| 217.21 | -67.50 | -64.39 | -1.74 | -1.37 | -13.00 | -54.50 |
| 243.40 | -66.33 | -63.10 | -1.74 | -1.49 | -13.00 | -53.33 |
| 313.24 | -70.68 | -67.49 | -1.57 | -1.62 | -13.00 | -57.68 |
| 1653.00 | -56.02 | -61.95 | 9.80 | -3.87 | -13.00 | -43.02 |

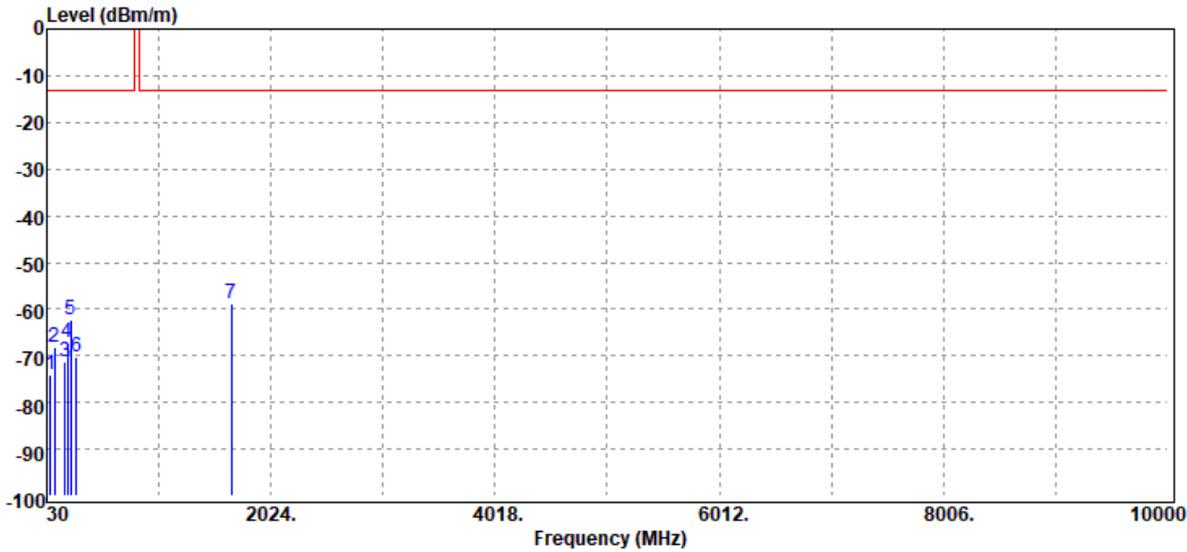
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Report Number :ER/2020/80144
 Operation Mode :LTE B26
 Test Mode :Tx CH Mid
 EUT Pol :NB Plane
 Test Frequency :836.5 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :VERTICAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 63.95 | -74.21 | -59.53 | -13.91 | -0.77 | -13.00 | -61.21 |
| 99.84 | -68.11 | -61.15 | -6.01 | -0.95 | -13.00 | -55.11 |
| 190.05 | -71.24 | -67.03 | -2.94 | -1.27 | -13.00 | -58.24 |
| 217.21 | -67.05 | -63.94 | -1.74 | -1.37 | -13.00 | -54.05 |
| 243.40 | -62.26 | -59.03 | -1.74 | -1.49 | -13.00 | -49.26 |
| 291.90 | -70.21 | -66.79 | -1.80 | -1.62 | -13.00 | -57.21 |
| 1673.00 | -58.91 | -64.81 | 9.80 | -3.90 | -13.00 | -45.91 |

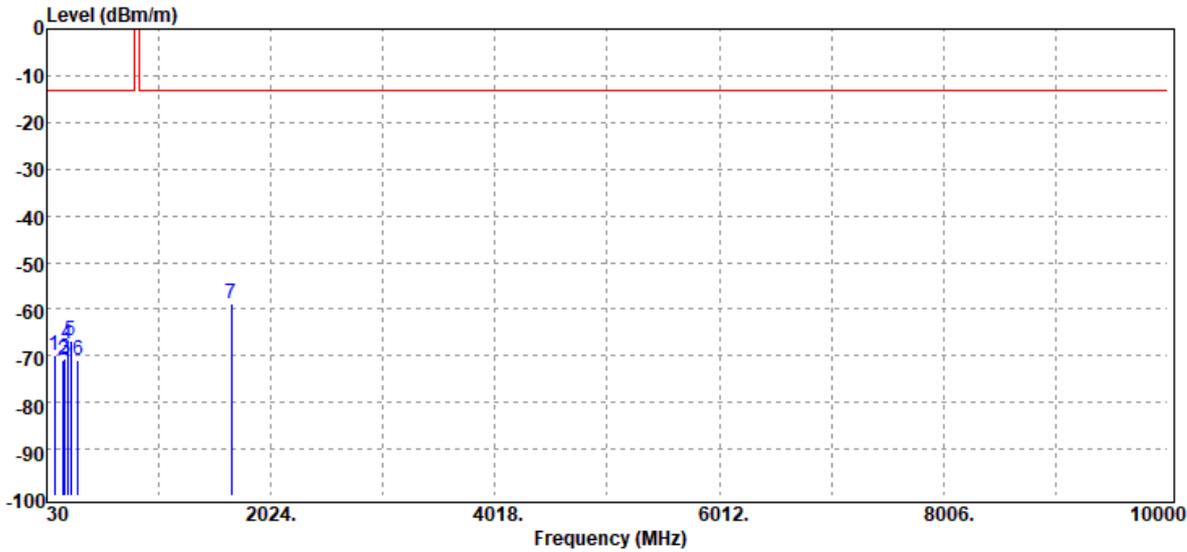
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Report Number :ER/2020/80144
 Operation Mode :LTE B26
 Test Mode :Tx CH Mid
 EUT Pol :NB Plane
 Test Frequency :836.5 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 97.90 | -69.96 | -63.23 | -5.79 | -0.94 | -13.00 | -56.96 |
| 180.35 | -70.81 | -65.41 | -4.17 | -1.23 | -13.00 | -57.81 |
| 190.05 | -70.74 | -66.53 | -2.94 | -1.27 | -13.00 | -57.74 |
| 217.21 | -67.54 | -64.43 | -1.74 | -1.37 | -13.00 | -54.54 |
| 243.40 | -66.82 | -63.59 | -1.74 | -1.49 | -13.00 | -53.82 |
| 311.30 | -70.84 | -67.65 | -1.59 | -1.60 | -13.00 | -57.84 |
| 1673.00 | -58.81 | -64.71 | 9.80 | -3.90 | -13.00 | -45.81 |

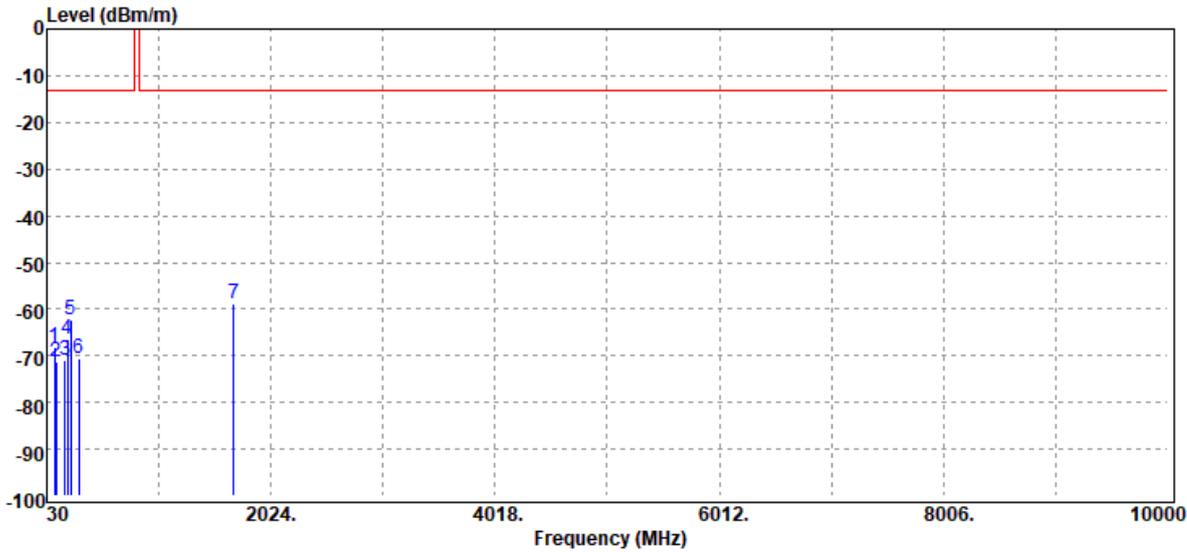
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Report Number :ER/2020/80144
 Operation Mode :LTE B26
 Test Mode :Tx CH High
 EUT Pol :NB Plane
 Test Frequency :846.5 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :VERTICAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 99.84 | -68.02 | -61.06 | -6.01 | -0.95 | -13.00 | -55.02 |
| 110.51 | -71.41 | -63.29 | -7.11 | -1.01 | -13.00 | -58.41 |
| 190.05 | -70.90 | -66.69 | -2.94 | -1.27 | -13.00 | -57.90 |
| 217.21 | -66.54 | -63.43 | -1.74 | -1.37 | -13.00 | -53.54 |
| 243.40 | -62.21 | -58.98 | -1.74 | -1.49 | -13.00 | -49.21 |
| 318.09 | -70.58 | -67.40 | -1.54 | -1.64 | -13.00 | -57.58 |
| 1693.00 | -58.91 | -64.79 | 9.80 | -3.92 | -13.00 | -45.91 |

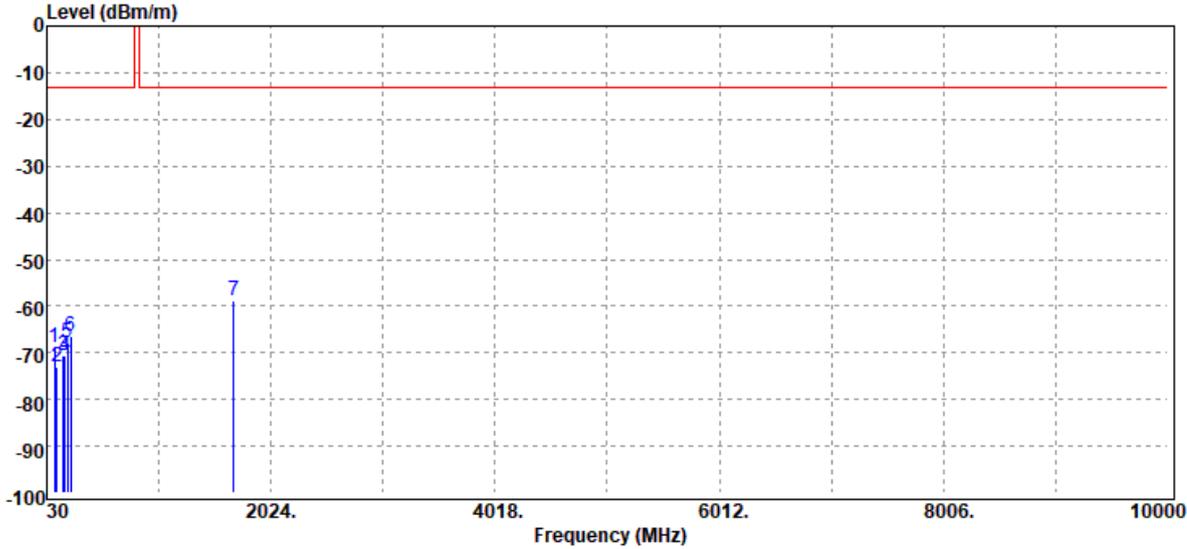
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Report Number :ER/2020/80144
 Operation Mode :LTE B26
 Test Mode :Tx CH High
 EUT Pol :NB Plane
 Test Frequency :846.5 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 99.84 | -69.02 | -62.06 | -6.01 | -0.95 | -13.00 | -56.02 |
| 119.24 | -73.14 | -64.76 | -7.32 | -1.06 | -13.00 | -60.14 |
| 180.35 | -70.63 | -65.23 | -4.17 | -1.23 | -13.00 | -57.63 |
| 190.05 | -70.65 | -66.44 | -2.94 | -1.27 | -13.00 | -57.65 |
| 217.21 | -67.71 | -64.60 | -1.74 | -1.37 | -13.00 | -54.71 |
| 243.40 | -66.57 | -63.34 | -1.74 | -1.49 | -13.00 | -53.57 |
| 1693.00 | -58.69 | -64.57 | 9.80 | -3.92 | -13.00 | -45.69 |

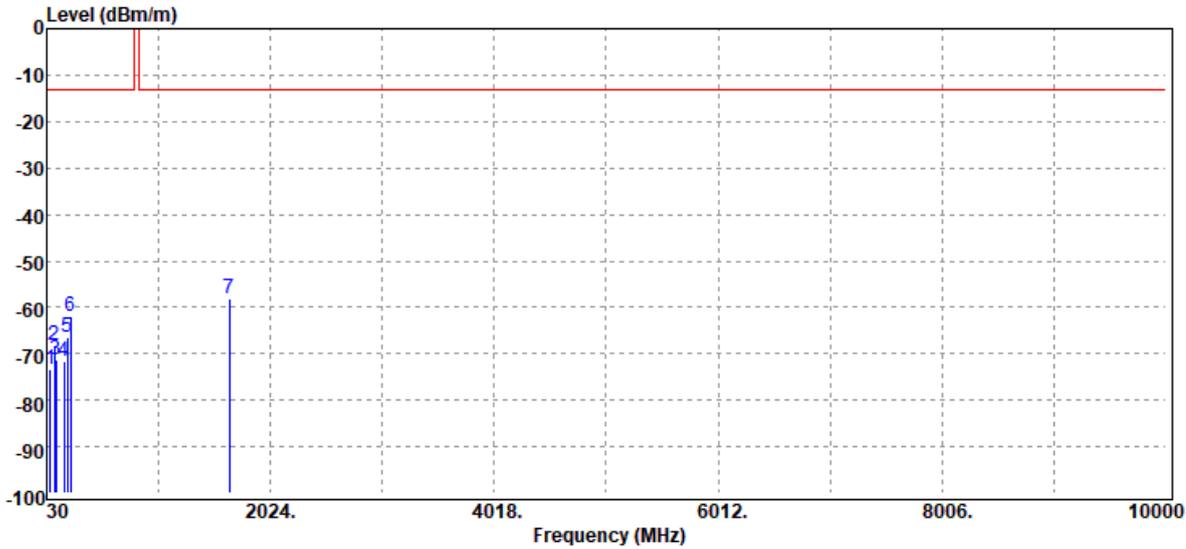
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Report Number :ER/2020/80144
 Operation Mode :LTE B26
 Test Mode :Tx CH Low
 EUT Pol :NB Plane
 Test Frequency :829 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :VERTICAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 59.10 | -73.19 | -57.28 | -15.18 | -0.73 | -13.00 | -60.19 |
| 99.84 | -68.00 | -61.04 | -6.01 | -0.95 | -13.00 | -55.00 |
| 110.51 | -71.44 | -63.32 | -7.11 | -1.01 | -13.00 | -58.44 |
| 187.14 | -71.57 | -67.04 | -3.27 | -1.26 | -13.00 | -58.57 |
| 217.21 | -66.33 | -63.22 | -1.74 | -1.37 | -13.00 | -53.33 |
| 243.40 | -61.97 | -58.74 | -1.74 | -1.49 | -13.00 | -48.97 |
| 1658.00 | -58.28 | -64.20 | 9.80 | -3.88 | -13.00 | -45.28 |

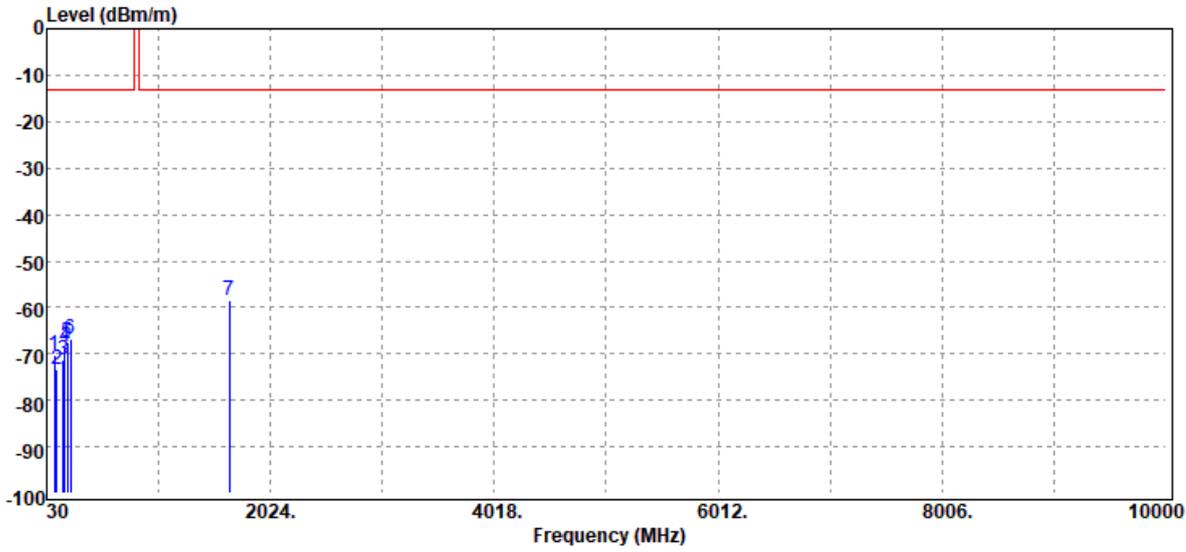
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Report Number :ER/2020/80144
 Operation Mode :LTE B26
 Test Mode :Tx CH Low
 EUT Pol :NB Plane
 Test Frequency :829 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 97.90 | -70.15 | -63.42 | -5.79 | -0.94 | -13.00 | -57.15 |
| 117.30 | -73.30 | -64.91 | -7.34 | -1.05 | -13.00 | -60.30 |
| 178.41 | -71.13 | -65.44 | -4.46 | -1.23 | -13.00 | -58.13 |
| 190.05 | -68.68 | -64.47 | -2.94 | -1.27 | -13.00 | -55.68 |
| 217.21 | -67.60 | -64.49 | -1.74 | -1.37 | -13.00 | -54.60 |
| 243.40 | -66.85 | -63.62 | -1.74 | -1.49 | -13.00 | -53.85 |
| 1658.00 | -58.45 | -64.37 | 9.80 | -3.88 | -13.00 | -45.45 |

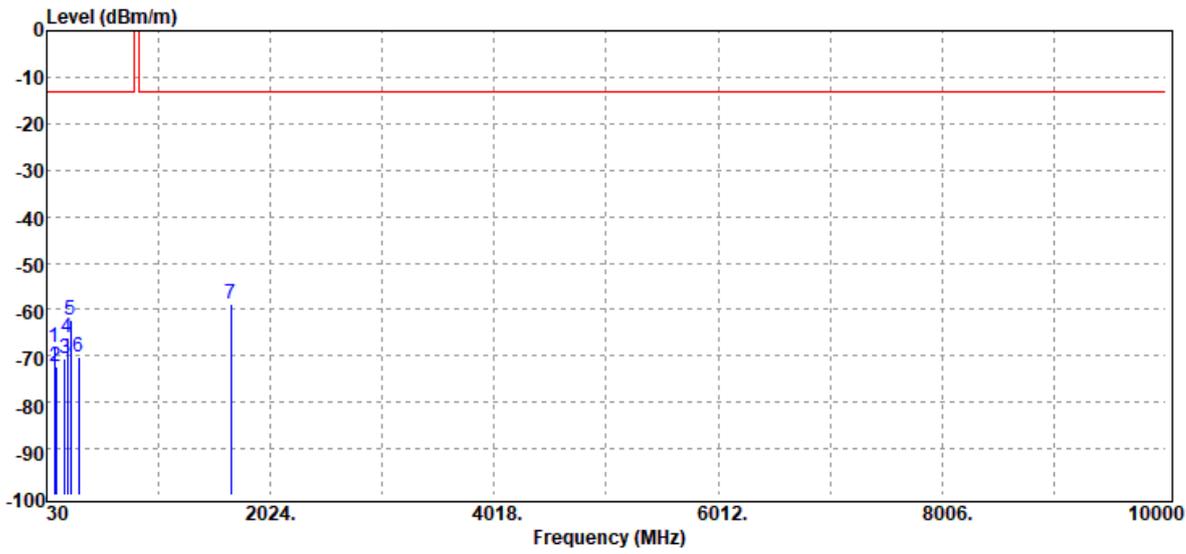
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Report Number :ER/2020/80144
 Operation Mode :LTE B26
 Test Mode :Tx CH Mid
 EUT Pol :NB Plane
 Test Frequency :836.5 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :VERTICAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 99.84 | -68.27 | -61.31 | -6.01 | -0.95 | -13.00 | -55.27 |
| 111.48 | -72.16 | -63.97 | -7.18 | -1.01 | -13.00 | -59.16 |
| 190.05 | -70.71 | -66.50 | -2.94 | -1.27 | -13.00 | -57.71 |
| 217.21 | -66.09 | -62.98 | -1.74 | -1.37 | -13.00 | -53.09 |
| 243.40 | -62.38 | -59.15 | -1.74 | -1.49 | -13.00 | -49.38 |
| 316.15 | -70.17 | -66.99 | -1.55 | -1.63 | -13.00 | -57.17 |
| 1673.00 | -58.77 | -64.67 | 9.80 | -3.90 | -13.00 | -45.77 |

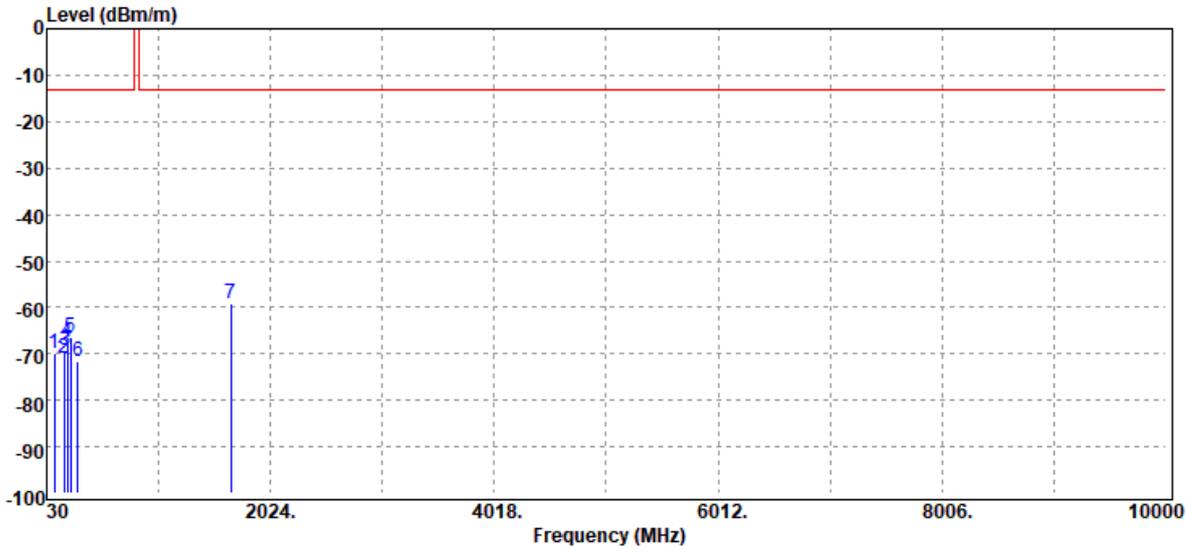
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Report Number :ER/2020/80144
 Operation Mode :LTE B26
 Test Mode :Tx CH Mid
 EUT Pol :NB Plane
 Test Frequency :836.5 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 99.84 | -69.80 | -62.84 | -6.01 | -0.95 | -13.00 | -56.80 |
| 182.29 | -70.97 | -65.93 | -3.81 | -1.23 | -13.00 | -57.97 |
| 190.05 | -69.16 | -64.95 | -2.94 | -1.27 | -13.00 | -56.16 |
| 217.21 | -67.62 | -64.51 | -1.74 | -1.37 | -13.00 | -54.62 |
| 243.40 | -66.39 | -63.16 | -1.74 | -1.49 | -13.00 | -53.39 |
| 309.36 | -71.48 | -68.28 | -1.60 | -1.60 | -13.00 | -58.48 |
| 1673.00 | -59.06 | -64.96 | 9.80 | -3.90 | -13.00 | -46.06 |

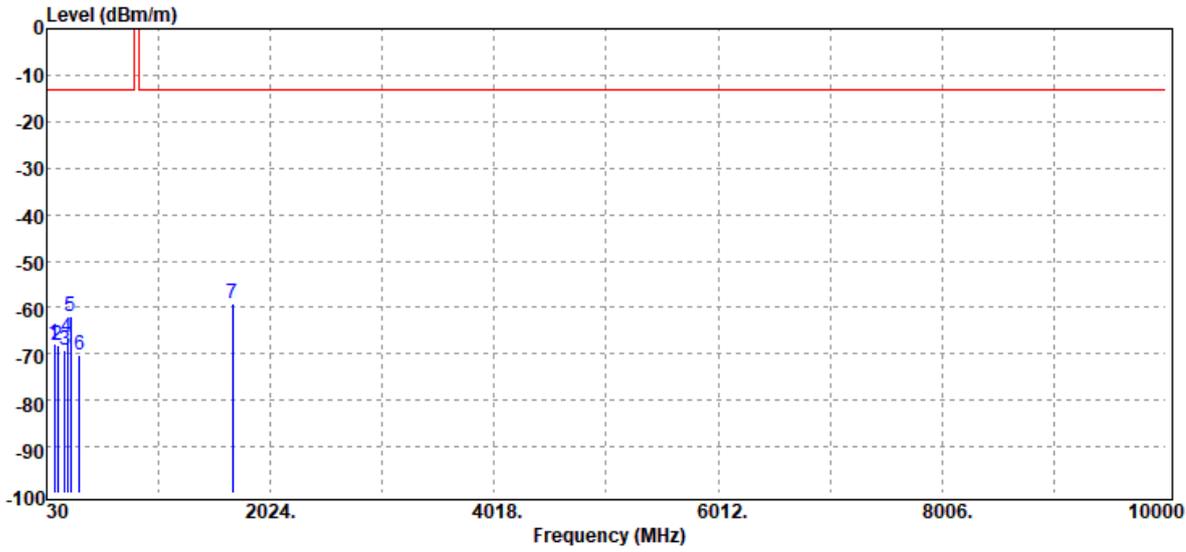
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Report Number :ER/2020/80144
 Operation Mode :LTE B26
 Test Mode :Tx CH High
 EUT Pol :NB Plane
 Test Frequency :844 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :VERTICAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 99.84 | -67.70 | -60.74 | -6.01 | -0.95 | -13.00 | -54.70 |
| 128.94 | -68.10 | -59.50 | -7.61 | -0.99 | -13.00 | -55.10 |
| 190.05 | -69.36 | -65.15 | -2.94 | -1.27 | -13.00 | -56.36 |
| 217.21 | -66.34 | -63.23 | -1.74 | -1.37 | -13.00 | -53.34 |
| 243.40 | -61.91 | -58.68 | -1.74 | -1.49 | -13.00 | -48.91 |
| 319.06 | -70.20 | -67.02 | -1.53 | -1.65 | -13.00 | -57.20 |
| 1688.00 | -59.26 | -65.14 | 9.80 | -3.92 | -13.00 | -46.26 |

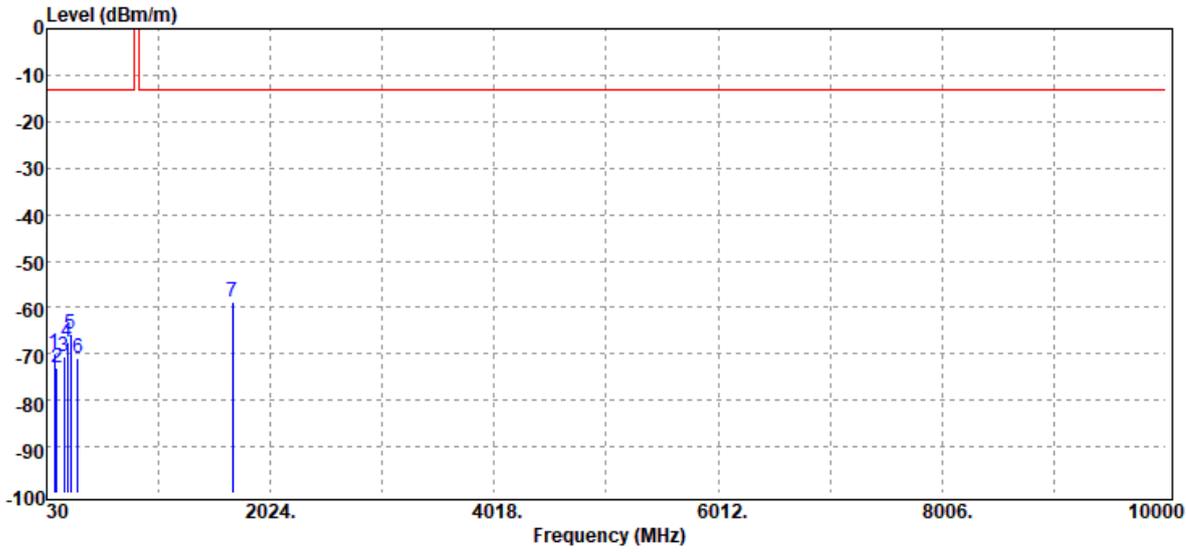
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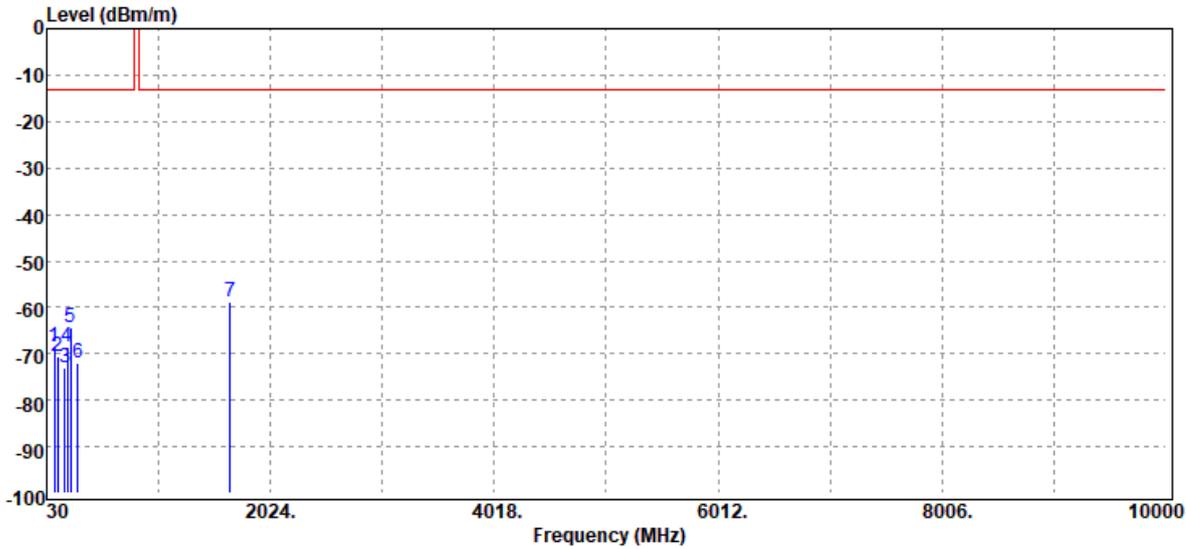
Report Number :ER/2020/80144
 Operation Mode :LTE B26
 Test Mode :Tx CH High
 EUT Pol :NB Plane
 Test Frequency :844 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



Report Number :ER/2020/80144
 Operation Mode :LTE B26
 Test Mode :Tx CH Low
 EUT Pol :NB Plane
 Test Frequency :831.5 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :VERTICAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 99.84 | -68.53 | -61.57 | -6.01 | -0.95 | -13.00 | -55.53 |
| 128.94 | -70.69 | -62.09 | -7.61 | -0.99 | -13.00 | -57.69 |
| 190.05 | -73.14 | -68.93 | -2.94 | -1.27 | -13.00 | -60.14 |
| 217.21 | -68.49 | -65.38 | -1.74 | -1.37 | -13.00 | -55.49 |
| 243.40 | -64.52 | -61.29 | -1.74 | -1.49 | -13.00 | -51.52 |
| 311.30 | -71.81 | -68.62 | -1.59 | -1.60 | -13.00 | -58.81 |
| 1663.00 | -58.68 | -64.60 | 9.80 | -3.88 | -13.00 | -45.68 |

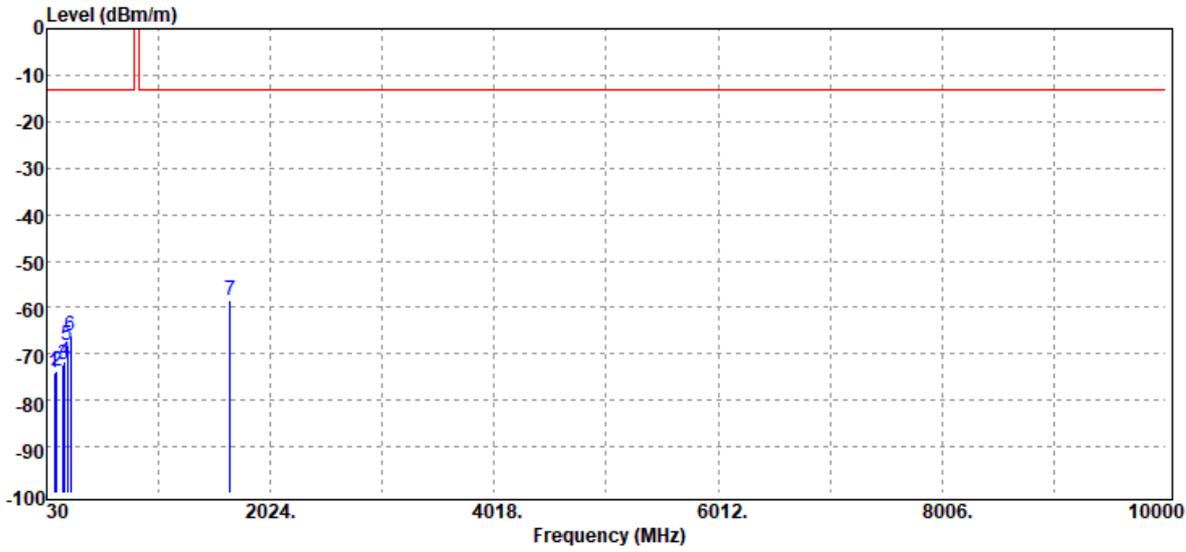
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Report Number :ER/2020/80144
 Operation Mode :LTE B26
 Test Mode :Tx CH Low
 EUT Pol :NB Plane
 Test Frequency :831.5 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 99.84 | -73.96 | -67.00 | -6.01 | -0.95 | -13.00 | -60.96 |
| 119.24 | -73.75 | -65.37 | -7.32 | -1.06 | -13.00 | -60.75 |
| 178.41 | -72.21 | -66.52 | -4.46 | -1.23 | -13.00 | -59.21 |
| 190.05 | -71.67 | -67.46 | -2.94 | -1.27 | -13.00 | -58.67 |
| 217.21 | -68.24 | -65.13 | -1.74 | -1.37 | -13.00 | -55.24 |
| 243.40 | -66.21 | -62.98 | -1.74 | -1.49 | -13.00 | -53.21 |
| 1663.00 | -58.34 | -64.26 | 9.80 | -3.88 | -13.00 | -45.34 |

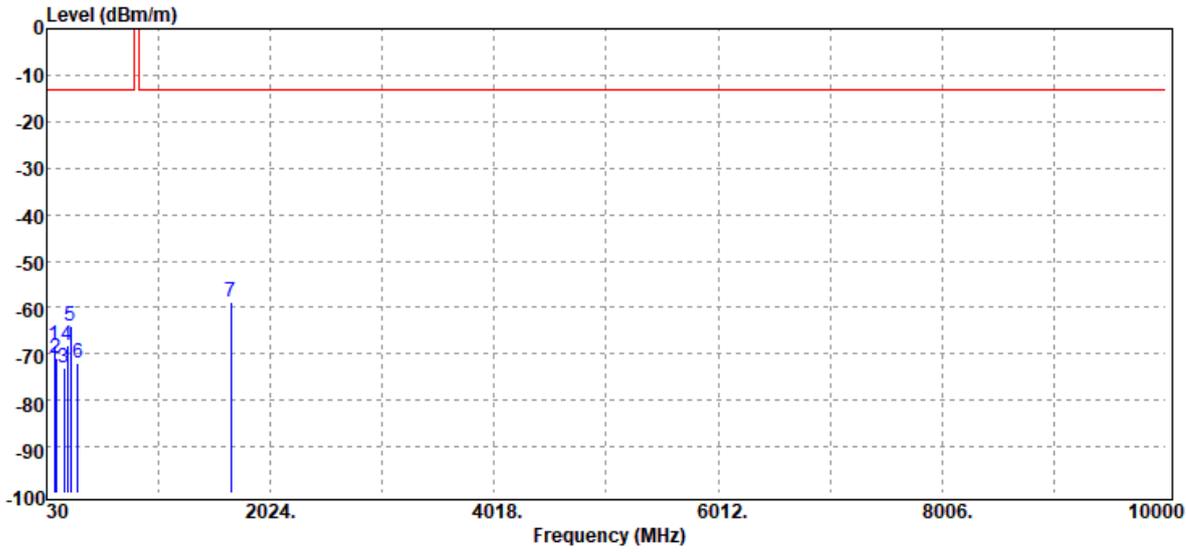
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Report Number :ER/2020/80144
Operation Mode :LTE B26
Test Mode :Tx CH Mid
EUT Pol :NB Plane
Test Frequency :836.5 MHz

Test Site :SAC I Chamber
Test Date :2020-09-17
Temp./Humi. :25.0/69
Antenna Pol. :VERTICAL
Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 99.84 | -68.03 | -61.07 | -6.01 | -0.95 | -13.00 | -55.03 |
| 109.54 | -71.01 | -62.92 | -7.09 | -1.00 | -13.00 | -58.01 |
| 187.14 | -72.94 | -68.41 | -3.27 | -1.26 | -13.00 | -59.94 |
| 217.21 | -68.23 | -65.12 | -1.74 | -1.37 | -13.00 | -55.23 |
| 243.40 | -64.08 | -60.85 | -1.74 | -1.49 | -13.00 | -51.08 |
| 304.51 | -71.99 | -68.73 | -1.65 | -1.61 | -13.00 | -58.99 |
| 1673.00 | -58.99 | -64.89 | 9.80 | -3.90 | -13.00 | -45.99 |

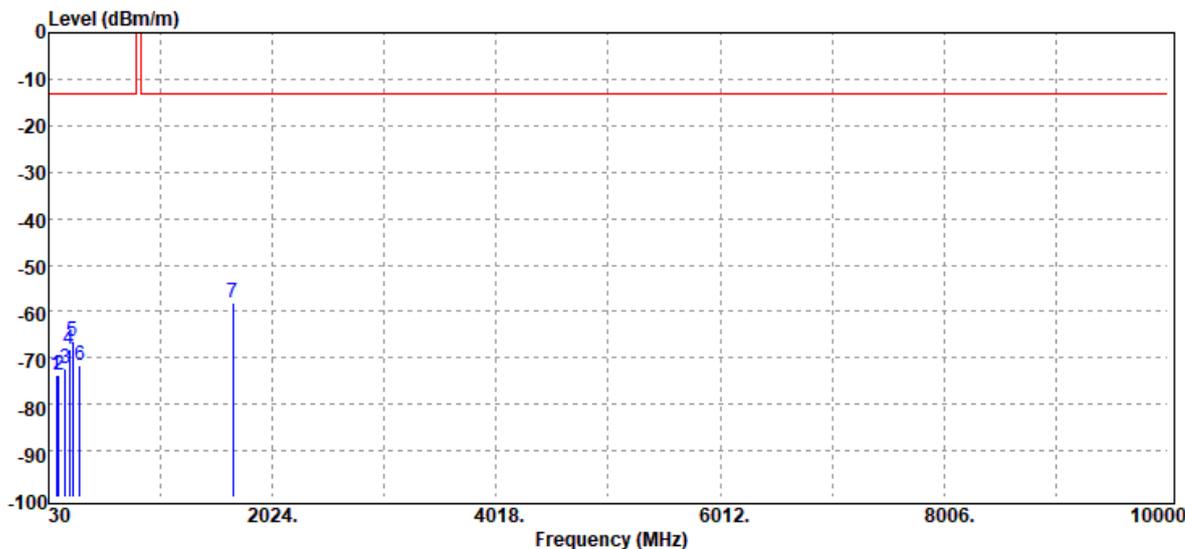
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Report Number :ER/2020/80144
 Operation Mode :LTE B26
 Test Mode :Tx CH Mid
 EUT Pol :NB Plane
 Test Frequency :836.5 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 99.84 | -73.56 | -66.60 | -6.01 | -0.95 | -13.00 | -60.56 |
| 119.24 | -73.60 | -65.22 | -7.32 | -1.06 | -13.00 | -60.60 |
| 180.35 | -72.24 | -66.84 | -4.17 | -1.23 | -13.00 | -59.24 |
| 217.21 | -68.31 | -65.20 | -1.74 | -1.37 | -13.00 | -55.31 |
| 243.40 | -66.35 | -63.12 | -1.74 | -1.49 | -13.00 | -53.35 |
| 306.45 | -71.74 | -68.50 | -1.63 | -1.61 | -13.00 | -58.74 |
| 1673.00 | -58.02 | -63.92 | 9.80 | -3.90 | -13.00 | -45.02 |

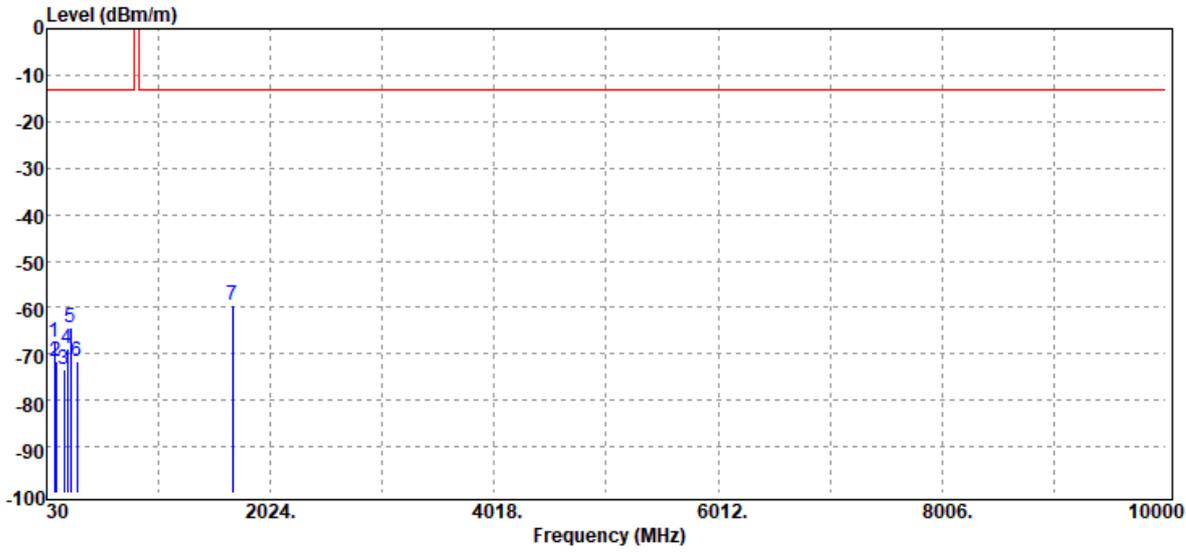
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Report Number :ER/2020/80144
 Operation Mode :LTE B26
 Test Mode :Tx CH High
 EUT Pol :NB Plane
 Test Frequency :841.5 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :VERTICAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 99.84 | -67.60 | -60.64 | -6.01 | -0.95 | -13.00 | -54.60 |
| 109.54 | -71.56 | -63.47 | -7.09 | -1.00 | -13.00 | -58.56 |
| 182.29 | -73.51 | -68.47 | -3.81 | -1.23 | -13.00 | -60.51 |
| 217.21 | -68.75 | -65.64 | -1.74 | -1.37 | -13.00 | -55.75 |
| 243.40 | -64.38 | -61.15 | -1.74 | -1.49 | -13.00 | -51.38 |
| 299.66 | -71.48 | -68.07 | -1.79 | -1.62 | -13.00 | -58.48 |
| 1683.00 | -59.61 | -65.50 | 9.80 | -3.91 | -13.00 | -46.61 |

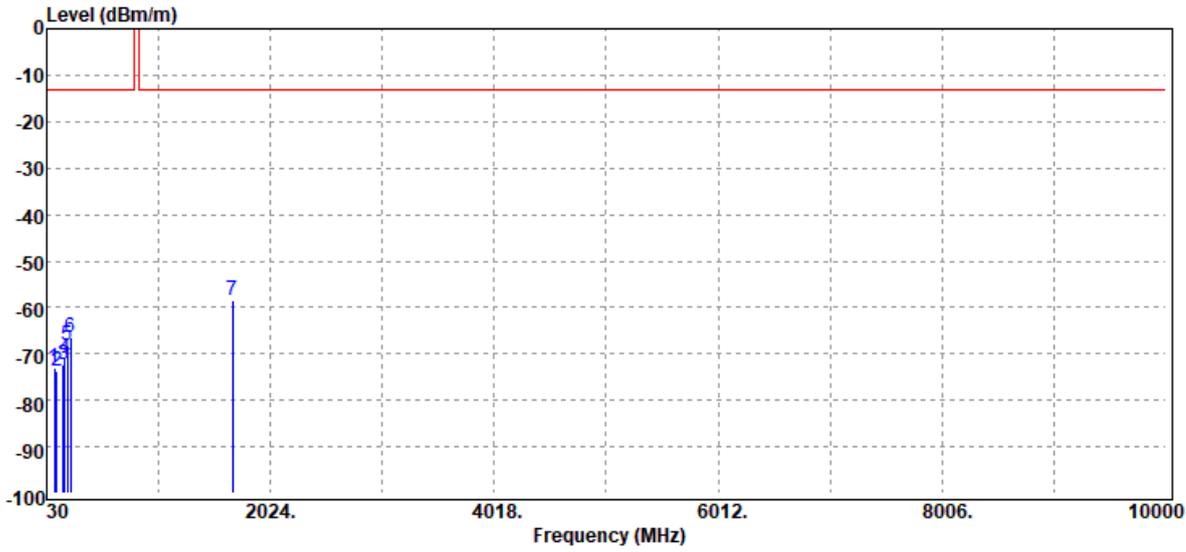
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Report Number :ER/2020/80144
 Operation Mode :LTE B26
 Test Mode :Tx CH High
 EUT Pol :NB Plane
 Test Frequency :841.5 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 97.90 | -72.97 | -66.24 | -5.79 | -0.94 | -13.00 | -59.97 |
| 118.27 | -73.72 | -65.36 | -7.30 | -1.06 | -13.00 | -60.72 |
| 180.35 | -72.44 | -67.04 | -4.17 | -1.23 | -13.00 | -59.44 |
| 190.05 | -70.80 | -66.59 | -2.94 | -1.27 | -13.00 | -57.80 |
| 217.21 | -68.08 | -64.97 | -1.74 | -1.37 | -13.00 | -55.08 |
| 243.40 | -66.54 | -63.31 | -1.74 | -1.49 | -13.00 | -53.54 |
| 1683.00 | -58.57 | -64.46 | 9.80 | -3.91 | -13.00 | -45.57 |

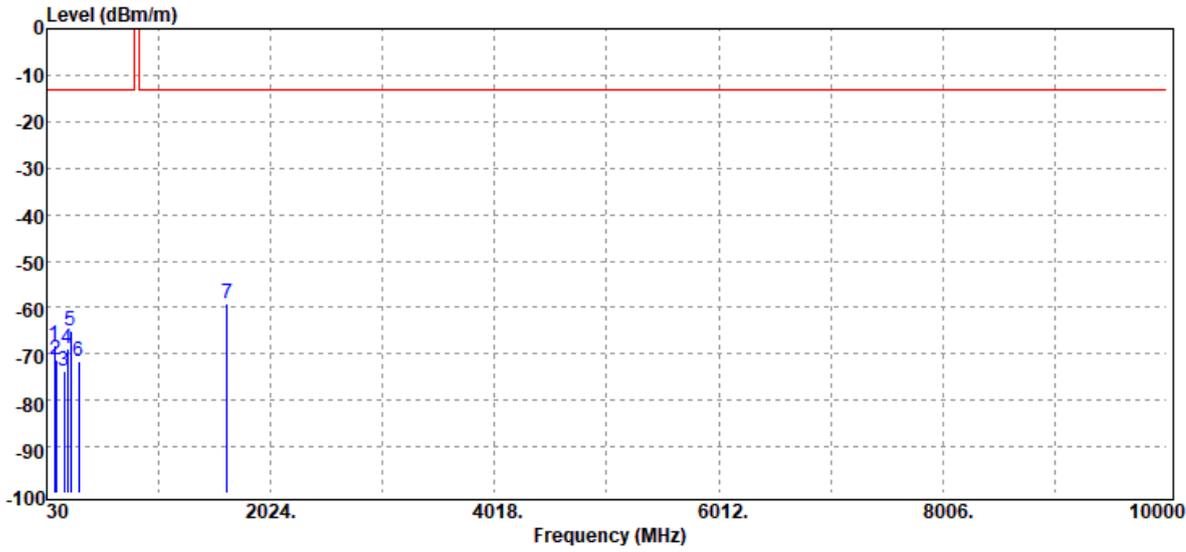
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Report Number :ER/2020/80144
Operation Mode :LTE B26 Part90
Test Mode :Tx CH Low
EUT Pol :NB Plane
Test Frequency :816.5 MHz

Test Site :SAC I Chamber
Test Date :2020-09-17
Temp./Humi. :25.0/69
Antenna Pol. :VERTICAL
Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 97.90 | -68.29 | -61.56 | -5.79 | -0.94 | -13.00 | -55.29 |
| 109.54 | -71.38 | -63.29 | -7.09 | -1.00 | -13.00 | -58.38 |
| 187.14 | -73.77 | -69.24 | -3.27 | -1.26 | -13.00 | -60.77 |
| 217.21 | -68.78 | -65.67 | -1.74 | -1.37 | -13.00 | -55.78 |
| 243.40 | -64.99 | -61.76 | -1.74 | -1.49 | -13.00 | -51.99 |
| 314.21 | -71.49 | -68.30 | -1.57 | -1.62 | -13.00 | -58.49 |
| 1633.00 | -59.26 | -65.09 | 9.67 | -3.84 | -13.00 | -46.26 |

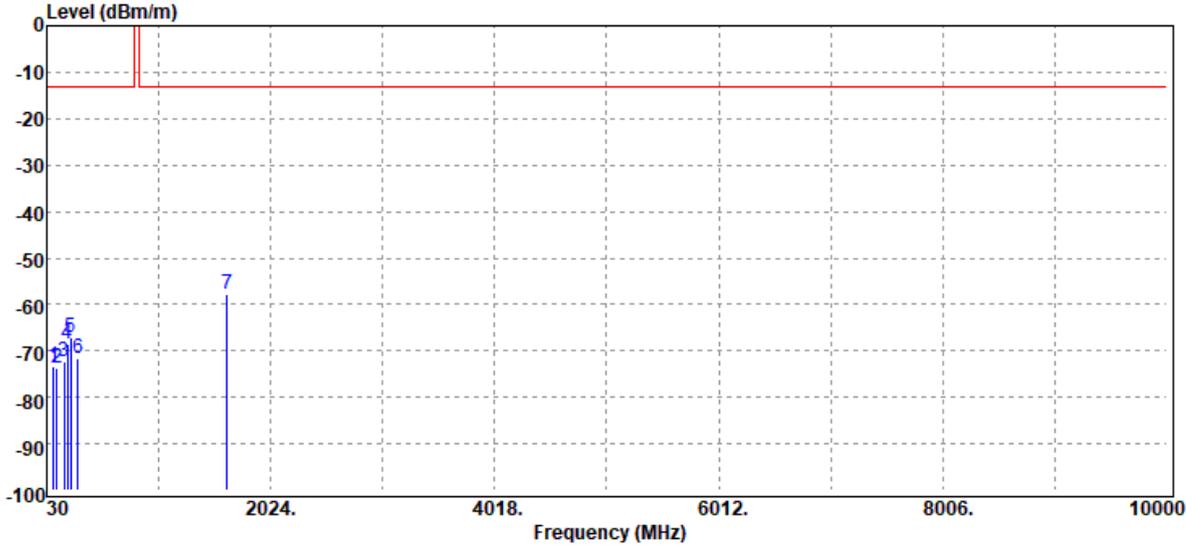
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Report Number :ER/2020/80144
 Operation Mode :LTE B26 Part90
 Test Mode :Tx CH Low
 EUT Pol :NB Plane
 Test Frequency :816.5 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 91.11 | -73.51 | -66.96 | -5.64 | -0.91 | -13.00 | -60.51 |
| 119.24 | -73.86 | -65.48 | -7.32 | -1.06 | -13.00 | -60.86 |
| 182.29 | -72.44 | -67.40 | -3.81 | -1.23 | -13.00 | -59.44 |
| 217.21 | -68.46 | -65.35 | -1.74 | -1.37 | -13.00 | -55.46 |
| 243.40 | -67.08 | -63.85 | -1.74 | -1.49 | -13.00 | -54.08 |
| 311.30 | -71.62 | -68.43 | -1.59 | -1.60 | -13.00 | -58.62 |
| 1633.00 | -57.87 | -63.70 | 9.67 | -3.84 | -13.00 | -44.87 |

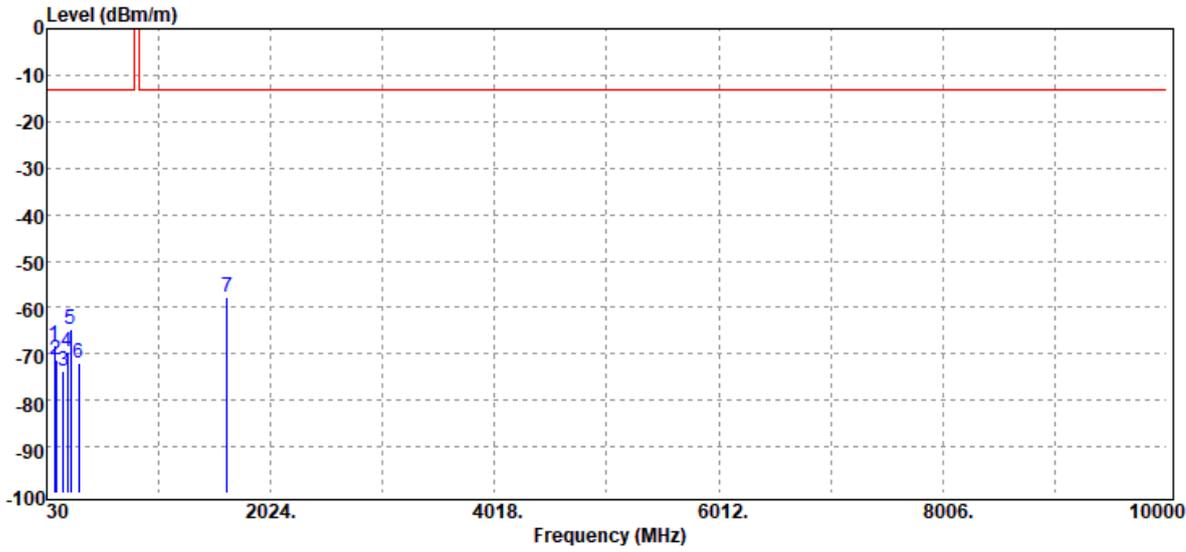
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Report Number :ER/2020/80144
 Operation Mode :LTE B26 Part90
 Test Mode :Tx CH Mid
 EUT Pol :NB Plane
 Test Frequency :819 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :VERTICAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 99.84 | -68.22 | -61.26 | -6.01 | -0.95 | -13.00 | -55.22 |
| 110.51 | -71.20 | -63.08 | -7.11 | -1.01 | -13.00 | -58.20 |
| 180.35 | -73.54 | -68.14 | -4.17 | -1.23 | -13.00 | -60.54 |
| 217.21 | -69.47 | -66.36 | -1.74 | -1.37 | -13.00 | -56.47 |
| 243.40 | -64.73 | -61.50 | -1.74 | -1.49 | -13.00 | -51.73 |
| 317.12 | -71.92 | -68.74 | -1.54 | -1.64 | -13.00 | -58.92 |
| 1638.00 | -57.69 | -63.55 | 9.71 | -3.85 | -13.00 | -44.69 |

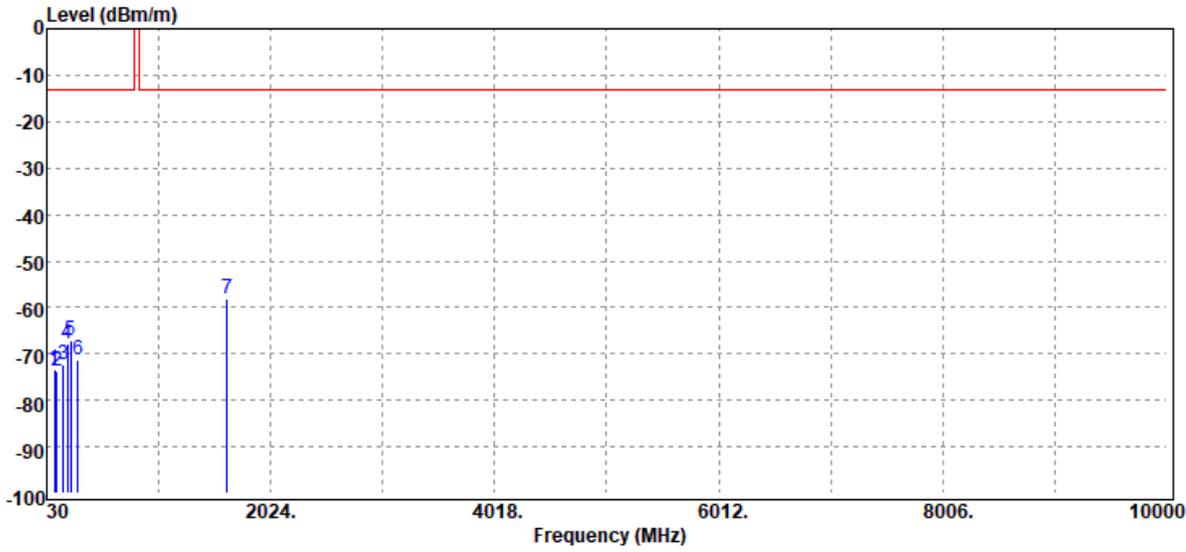
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Report Number :ER/2020/80144
 Operation Mode :LTE B26 Part90
 Test Mode :Tx CH Mid
 EUT Pol :NB Plane
 Test Frequency :819 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 99.84 | -73.51 | -66.55 | -6.01 | -0.95 | -13.00 | -60.51 |
| 117.30 | -73.77 | -65.38 | -7.34 | -1.05 | -13.00 | -60.77 |
| 180.35 | -72.42 | -67.02 | -4.17 | -1.23 | -13.00 | -59.42 |
| 217.21 | -67.99 | -64.88 | -1.74 | -1.37 | -13.00 | -54.99 |
| 243.40 | -66.99 | -63.76 | -1.74 | -1.49 | -13.00 | -53.99 |
| 309.36 | -71.38 | -68.18 | -1.60 | -1.60 | -13.00 | -58.38 |
| 1638.00 | -58.07 | -63.93 | 9.71 | -3.85 | -13.00 | -45.07 |

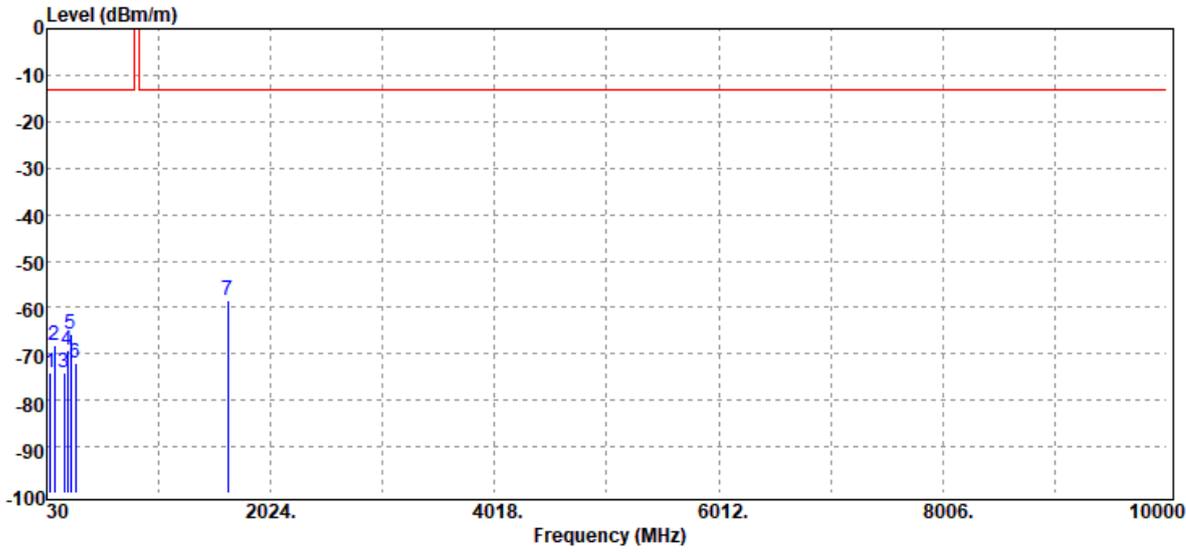
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Report Number :ER/2020/80144
Operation Mode :LTE B26 Part90
Test Mode :Tx CH High
EUT Pol :NB Plane
Test Frequency :821.5 MHz

Test Site :SAC I Chamber
Test Date :2020-09-17
Temp./Humi. :25.0/69
Antenna Pol. :VERTICAL
Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 61.04 | -73.99 | -58.63 | -14.61 | -0.75 | -13.00 | -60.99 |
| 97.90 | -68.11 | -61.38 | -5.79 | -0.94 | -13.00 | -55.11 |
| 187.14 | -73.94 | -69.41 | -3.27 | -1.26 | -13.00 | -60.94 |
| 217.21 | -69.34 | -66.23 | -1.74 | -1.37 | -13.00 | -56.34 |
| 243.40 | -65.62 | -62.39 | -1.74 | -1.49 | -13.00 | -52.62 |
| 287.05 | -71.94 | -68.53 | -1.81 | -1.60 | -13.00 | -58.94 |
| 1643.00 | -58.41 | -64.30 | 9.74 | -3.85 | -13.00 | -45.41 |

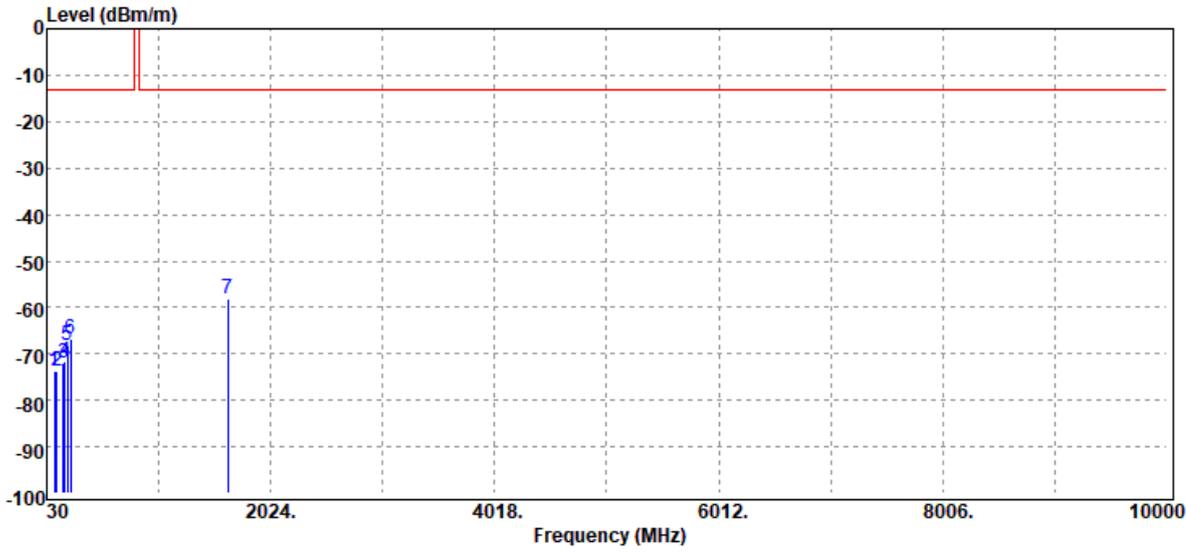
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Report Number :ER/2020/80144
 Operation Mode :LTE B26 Part90
 Test Mode :Tx CH High
 EUT Pol :NB Plane
 Test Frequency :821.5 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



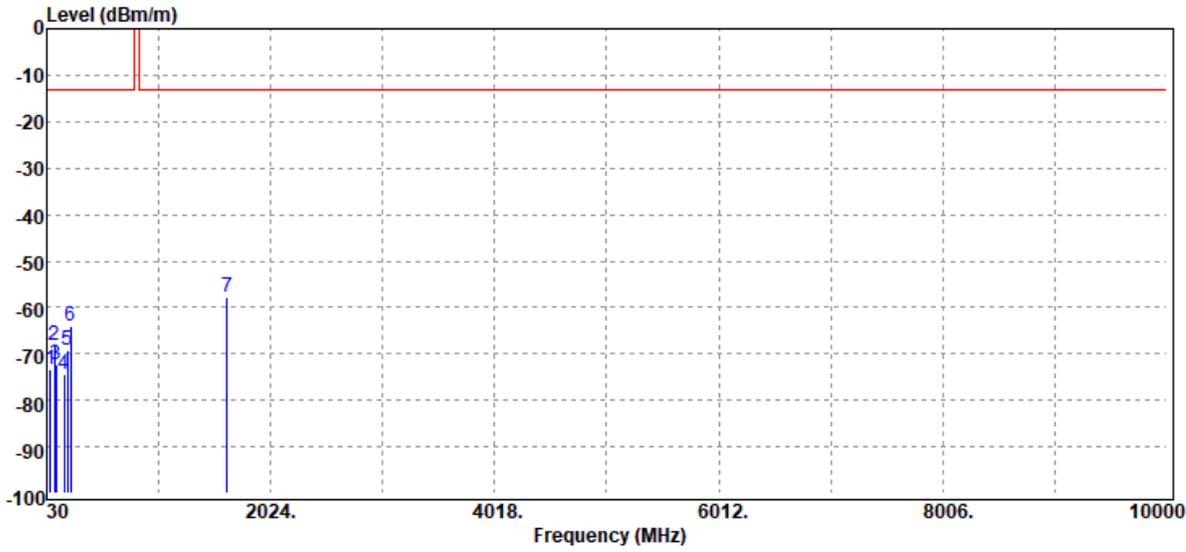
| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 95.96 | -73.55 | -67.04 | -5.58 | -0.93 | -13.00 | -60.55 |
| 117.30 | -73.56 | -65.17 | -7.34 | -1.05 | -13.00 | -60.56 |
| 180.35 | -72.04 | -66.64 | -4.17 | -1.23 | -13.00 | -59.04 |
| 190.05 | -71.57 | -67.36 | -2.94 | -1.27 | -13.00 | -58.57 |
| 217.21 | -68.24 | -65.13 | -1.74 | -1.37 | -13.00 | -55.24 |
| 243.40 | -66.62 | -63.39 | -1.74 | -1.49 | -13.00 | -53.62 |
| 1643.00 | -58.26 | -64.15 | 9.74 | -3.85 | -13.00 | -45.26 |

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| | | | |
|----------------|---------------------|--------------|----------------|
| Report Number | :ER/2020/80144 | Test Site | :SAC I Chamber |
| Operation Mode | :LTE B26_10M Part90 | Test Date | :2020-09-17 |
| Test Mode | :Tx CH Mid | Temp./Humi. | :25.0/69 |
| EUT Pol | :NB Plane | Antenna Pol. | :VERTICAL |
| Test Frequency | :819 MHz | Engineer | :Neo |



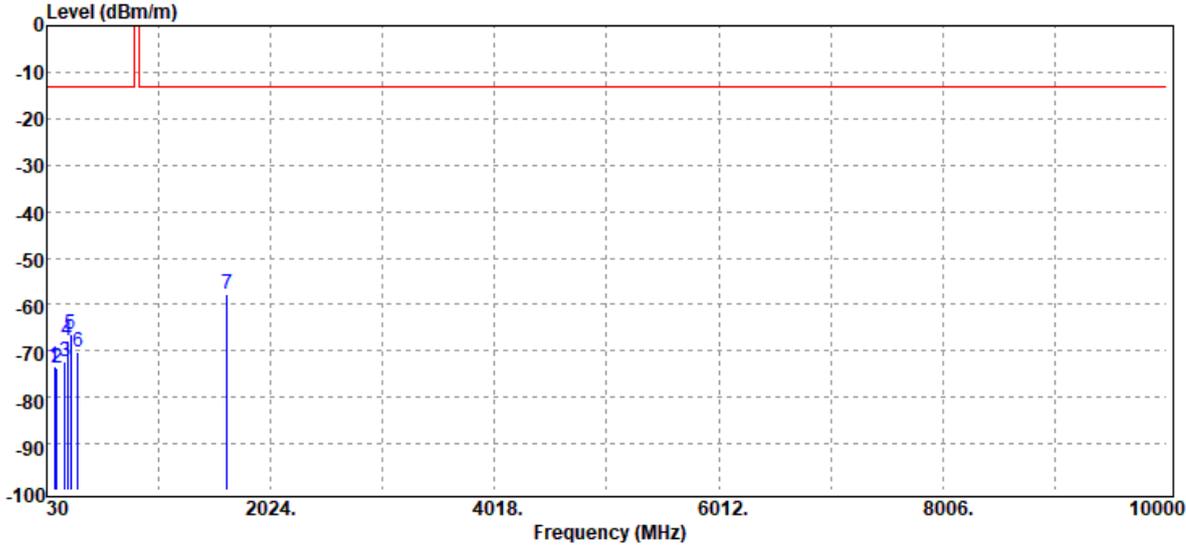
| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 59.10 | -73.52 | -57.61 | -15.18 | -0.73 | -13.00 | -60.52 |
| 99.84 | -68.12 | -61.16 | -6.01 | -0.95 | -13.00 | -55.12 |
| 112.45 | -72.22 | -63.99 | -7.21 | -1.02 | -13.00 | -59.22 |
| 185.20 | -74.27 | -69.55 | -3.47 | -1.25 | -13.00 | -61.27 |
| 217.21 | -69.29 | -66.18 | -1.74 | -1.37 | -13.00 | -56.29 |
| 243.40 | -63.92 | -60.69 | -1.74 | -1.49 | -13.00 | -50.92 |
| 1638.00 | -57.66 | -63.52 | 9.71 | -3.85 | -13.00 | -44.66 |

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| | | | |
|----------------|---------------------|--------------|----------------|
| Report Number | :ER/2020/80144 | Test Site | :SAC I Chamber |
| Operation Mode | :LTE B26_10M Part90 | Test Date | :2020-09-17 |
| Test Mode | :Tx CH Mid | Temp./Humi. | :25.0/69 |
| EUT Pol | :NB Plane | Antenna Pol. | :HORIZONTAL |
| Test Frequency | :819 MHz | Engineer | :Neo |



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 97.90 | -73.48 | -66.75 | -5.79 | -0.94 | -13.00 | -60.48 |
| 119.24 | -73.78 | -65.40 | -7.32 | -1.06 | -13.00 | -60.78 |
| 190.05 | -72.19 | -67.98 | -2.94 | -1.27 | -13.00 | -59.19 |
| 217.21 | -67.88 | -64.77 | -1.74 | -1.37 | -13.00 | -54.88 |
| 243.40 | -66.58 | -63.35 | -1.74 | -1.49 | -13.00 | -53.58 |
| 308.39 | -70.29 | -67.08 | -1.61 | -1.60 | -13.00 | -57.29 |
| 1638.00 | -57.62 | -63.48 | 9.71 | -3.85 | -13.00 | -44.62 |

| | | | |
|----------------|----------------|-------------|----------------|
| Report Number | :ER/2020/80144 | Test Site | :SAC I Chamber |
| Operation Mode | :LTE B30 | Test Date | :2020-09-17 |
| Test Mode | :Tx CH Low | Temp./Humi. | :25.0/69 |

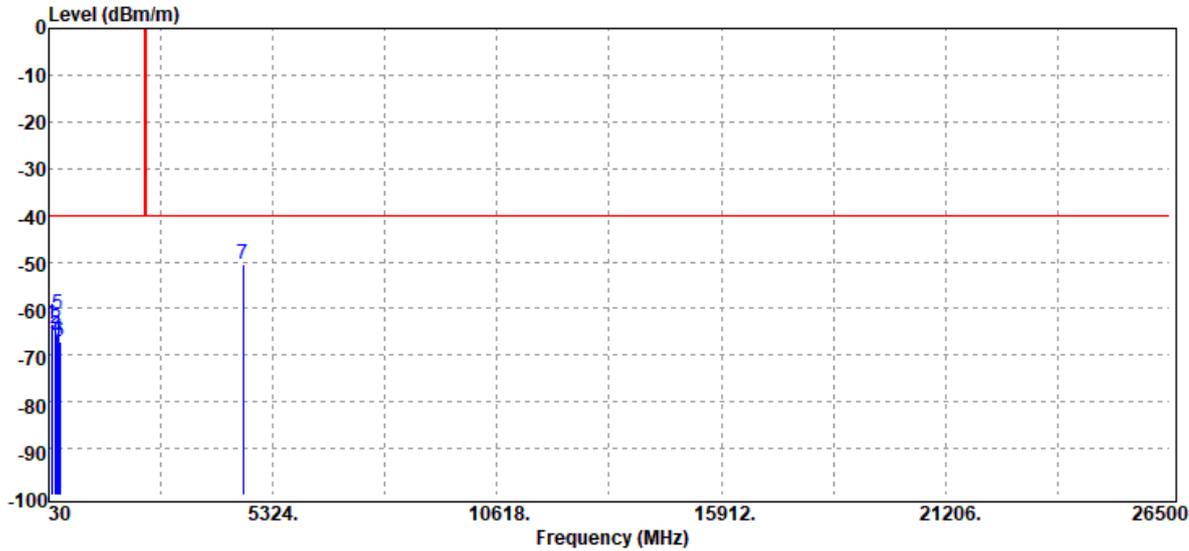
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EUT Pol :NB Plane
Test Frequency :2307.5 MHz

Antenna Pol. :VERTICAL
Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 99.84 | -63.41 | -56.45 | -6.01 | -0.95 | -40.00 | -23.41 |
| 185.20 | -64.47 | -59.75 | -3.47 | -1.25 | -40.00 | -24.47 |
| 217.21 | -65.64 | -62.53 | -1.74 | -1.37 | -40.00 | -25.64 |
| 226.91 | -66.39 | -63.65 | -1.33 | -1.41 | -40.00 | -26.39 |
| 243.40 | -61.19 | -57.96 | -1.74 | -1.49 | -40.00 | -21.19 |
| 287.05 | -67.19 | -63.78 | -1.81 | -1.60 | -40.00 | -27.19 |
| 4615.00 | -50.49 | -56.50 | 12.67 | -6.66 | -40.00 | -10.49 |

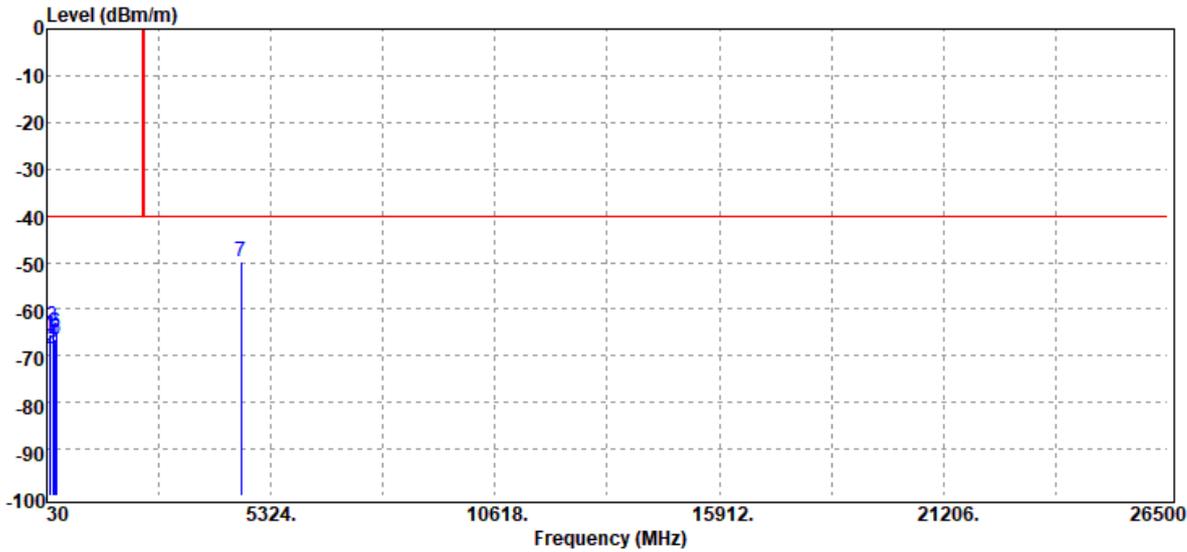
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Report Number :ER/2020/80144
 Operation Mode :LTE B30
 Test Mode :Tx CH Low
 EUT Pol :NB Plane
 Test Frequency :2307.5 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 99.84 | -65.28 | -58.32 | -6.01 | -0.95 | -40.00 | -25.28 |
| 119.24 | -68.46 | -60.08 | -7.32 | -1.06 | -40.00 | -28.46 |
| 182.29 | -63.73 | -58.69 | -3.81 | -1.23 | -40.00 | -23.73 |
| 217.21 | -67.19 | -64.08 | -1.74 | -1.37 | -40.00 | -27.19 |
| 228.85 | -66.42 | -63.63 | -1.37 | -1.42 | -40.00 | -26.42 |
| 243.40 | -65.07 | -61.84 | -1.74 | -1.49 | -40.00 | -25.07 |
| 4615.00 | -50.00 | -56.01 | 12.67 | -6.66 | -40.00 | -10.00 |

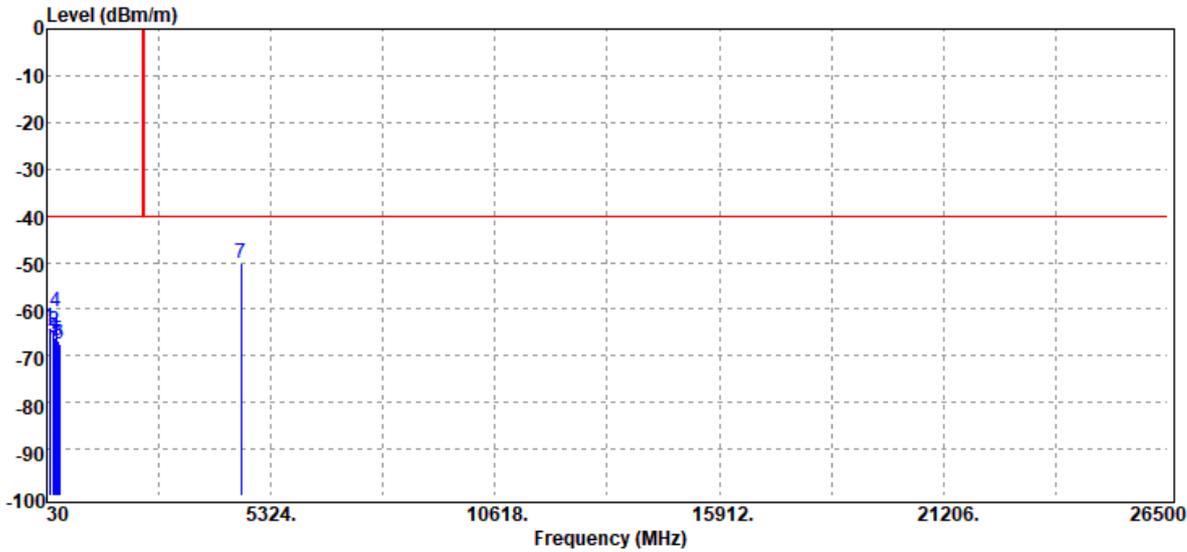
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Report Number :ER/2020/80144
 Operation Mode :LTE B30
 Test Mode :Tx CH Mid
 EUT Pol :NB Plane
 Test Frequency :2310 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :VERTICAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 100.81 | -63.99 | -56.84 | -6.20 | -0.95 | -40.00 | -23.99 |
| 190.05 | -64.87 | -60.66 | -2.94 | -1.27 | -40.00 | -24.87 |
| 217.21 | -66.16 | -63.05 | -1.74 | -1.37 | -40.00 | -26.16 |
| 243.40 | -60.66 | -57.43 | -1.74 | -1.49 | -40.00 | -20.66 |
| 285.11 | -66.78 | -63.36 | -1.83 | -1.59 | -40.00 | -26.78 |
| 321.00 | -67.44 | -64.24 | -1.54 | -1.66 | -40.00 | -27.44 |
| 4620.00 | -50.32 | -56.32 | 12.66 | -6.66 | -40.00 | -10.32 |

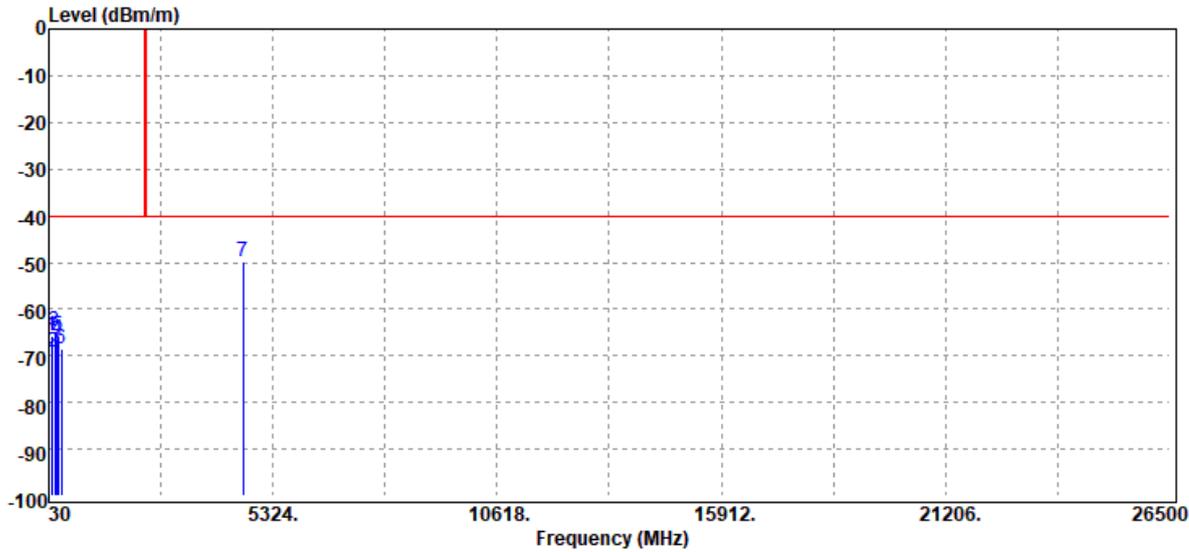
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Report Number :ER/2020/80144
 Operation Mode :LTE B30
 Test Mode :Tx CH Mid
 EUT Pol :NB Plane
 Test Frequency :2310 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 90.14 | -65.89 | -59.18 | -5.81 | -0.90 | -40.00 | -25.89 |
| 118.27 | -69.37 | -61.01 | -7.30 | -1.06 | -40.00 | -29.37 |
| 182.29 | -64.66 | -59.62 | -3.81 | -1.23 | -40.00 | -24.66 |
| 228.85 | -66.53 | -63.74 | -1.37 | -1.42 | -40.00 | -26.53 |
| 243.40 | -65.77 | -62.54 | -1.74 | -1.49 | -40.00 | -25.77 |
| 333.61 | -68.56 | -65.07 | -1.73 | -1.76 | -40.00 | -28.56 |
| 4620.00 | -49.87 | -55.87 | 12.66 | -6.66 | -40.00 | -9.87 |

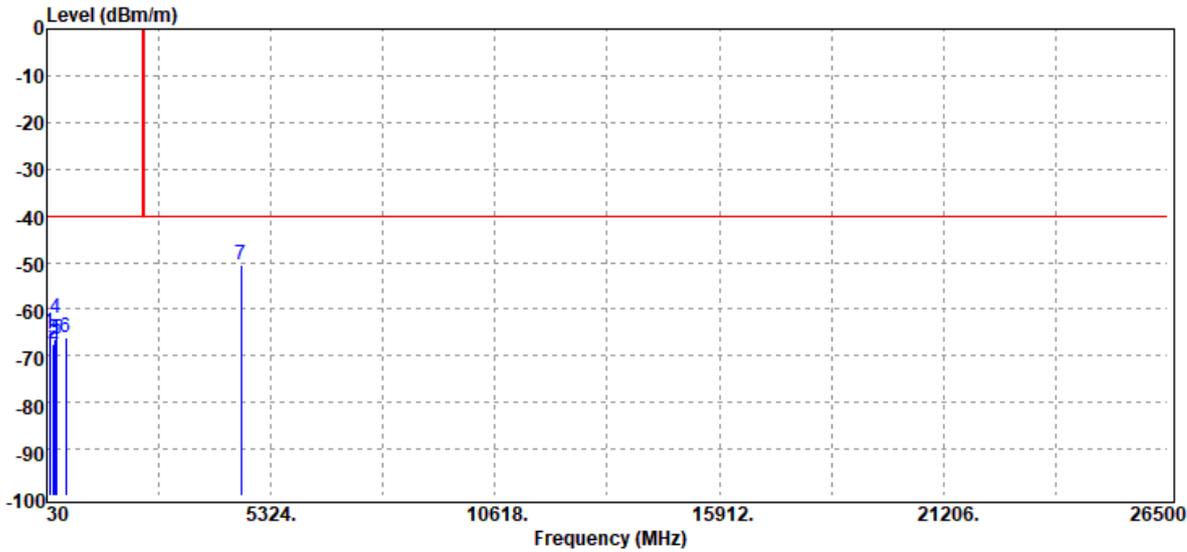
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Report Number :ER/2020/80144
 Operation Mode :LTE B30
 Test Mode :Tx CH High
 EUT Pol :NB Plane
 Test Frequency :2312.5 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :VERTICAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 99.84 | -64.89 | -57.93 | -6.01 | -0.95 | -40.00 | -24.89 |
| 185.20 | -67.39 | -62.67 | -3.47 | -1.25 | -40.00 | -27.39 |
| 217.21 | -66.42 | -63.31 | -1.74 | -1.37 | -40.00 | -26.42 |
| 243.40 | -61.87 | -58.64 | -1.74 | -1.49 | -40.00 | -21.87 |
| 277.35 | -66.57 | -63.21 | -1.81 | -1.55 | -40.00 | -26.57 |
| 482.99 | -66.21 | -62.46 | -1.65 | -2.10 | -40.00 | -26.21 |
| 4625.00 | -50.52 | -56.51 | 12.65 | -6.66 | -40.00 | -10.52 |

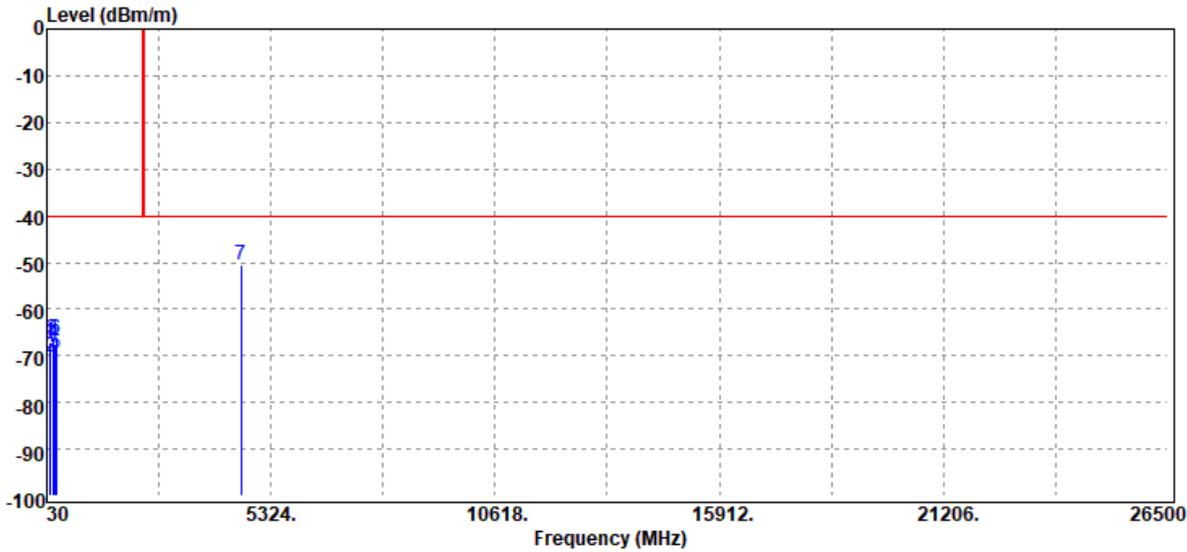
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Report Number :ER/2020/80144
 Operation Mode :LTE B30
 Test Mode :Tx CH High
 EUT Pol :NB Plane
 Test Frequency :2312.5 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 99.84 | -67.00 | -60.04 | -6.01 | -0.95 | -40.00 | -27.00 |
| 119.24 | -70.39 | -62.01 | -7.32 | -1.06 | -40.00 | -30.39 |
| 182.29 | -66.29 | -61.25 | -3.81 | -1.23 | -40.00 | -26.29 |
| 217.21 | -67.61 | -64.50 | -1.74 | -1.37 | -40.00 | -27.61 |
| 226.91 | -69.59 | -66.85 | -1.33 | -1.41 | -40.00 | -29.59 |
| 243.40 | -66.41 | -63.18 | -1.74 | -1.49 | -40.00 | -26.41 |
| 4625.00 | -50.64 | -56.63 | 12.65 | -6.66 | -40.00 | -10.64 |

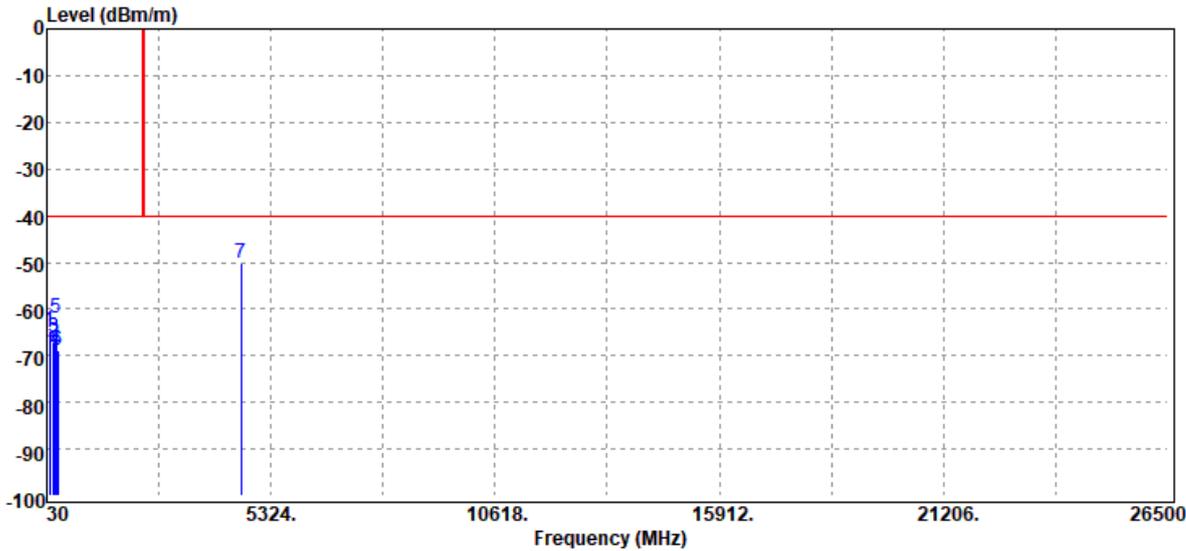
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Report Number :ER/2020/80144
Operation Mode :LTE B30_10M
Test Mode :Tx CH Mid
EUT Pol :NB Plane
Test Frequency :2310 MHz

Test Site :SAC I Chamber
Test Date :2020-09-17
Temp./Humi. :25.0/69
Antenna Pol. :VERTICAL
Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 99.84 | -64.72 | -57.76 | -6.01 | -0.95 | -40.00 | -24.72 |
| 185.20 | -66.96 | -62.24 | -3.47 | -1.25 | -40.00 | -26.96 |
| 217.21 | -65.99 | -62.88 | -1.74 | -1.37 | -40.00 | -25.99 |
| 226.91 | -68.99 | -66.25 | -1.33 | -1.41 | -40.00 | -28.99 |
| 243.40 | -61.86 | -58.63 | -1.74 | -1.49 | -40.00 | -21.86 |
| 282.20 | -68.83 | -65.40 | -1.86 | -1.57 | -40.00 | -28.83 |
| 4620.00 | -50.27 | -56.27 | 12.66 | -6.66 | -40.00 | -10.27 |

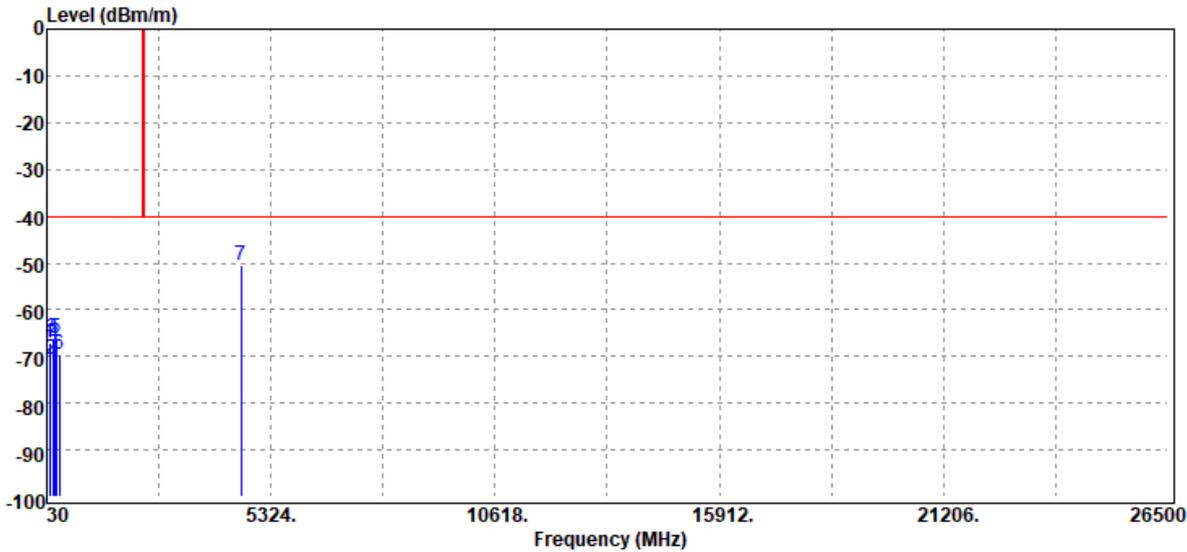
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Report Number :ER/2020/80144
 Operation Mode :LTE B30_10M
 Test Mode :Tx CH Mid
 EUT Pol :NB Plane
 Test Frequency :2310 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 99.84 | -67.06 | -60.10 | -6.01 | -0.95 | -40.00 | -27.06 |
| 119.24 | -70.74 | -62.36 | -7.32 | -1.06 | -40.00 | -30.74 |
| 180.35 | -66.18 | -60.78 | -4.17 | -1.23 | -40.00 | -26.18 |
| 217.21 | -67.62 | -64.51 | -1.74 | -1.37 | -40.00 | -27.62 |
| 243.40 | -65.92 | -62.69 | -1.74 | -1.49 | -40.00 | -25.92 |
| 332.64 | -69.47 | -65.99 | -1.74 | -1.74 | -40.00 | -29.47 |
| 4620.00 | -50.43 | -56.43 | 12.66 | -6.66 | -40.00 | -10.43 |

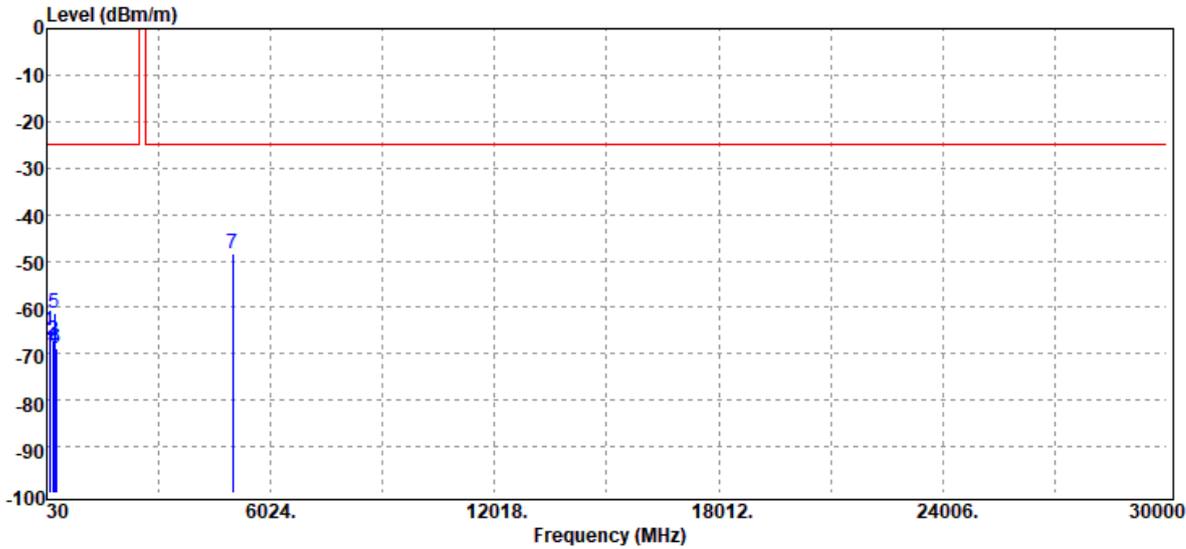
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Report Number :ER/2020/80144
 Operation Mode :LTE B41
 Test Mode :Tx CH Low
 EUT Pol :NB Plane
 Test Frequency :2506 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :VERTICAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 100.81 | -64.98 | -57.83 | -6.20 | -0.95 | -25.00 | -39.98 |
| 184.23 | -67.01 | -62.17 | -3.60 | -1.24 | -25.00 | -42.01 |
| 217.21 | -66.99 | -63.88 | -1.74 | -1.37 | -25.00 | -41.99 |
| 226.91 | -68.96 | -66.22 | -1.33 | -1.41 | -25.00 | -43.96 |
| 243.40 | -61.19 | -57.96 | -1.74 | -1.49 | -25.00 | -36.19 |
| 283.17 | -68.92 | -65.50 | -1.85 | -1.57 | -25.00 | -43.92 |
| 5012.00 | -48.32 | -54.14 | 12.68 | -6.86 | -25.00 | -23.32 |

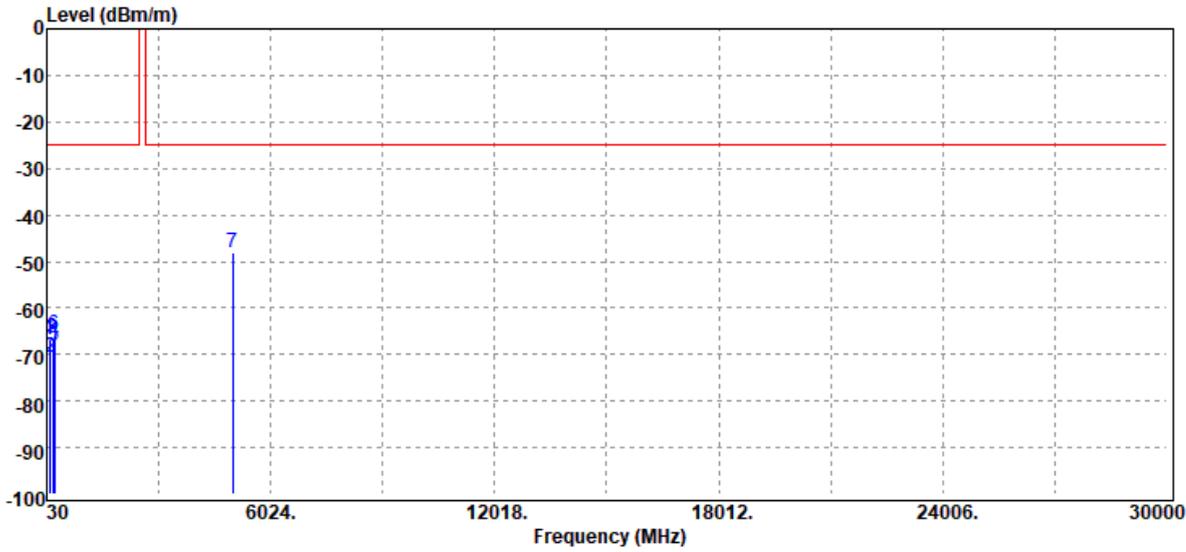
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Report Number :ER/2020/80144
 Operation Mode :LTE B41
 Test Mode :Tx CH Low
 EUT Pol :NB Plane
 Test Frequency :2506 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 99.84 | -66.91 | -59.95 | -6.01 | -0.95 | -25.00 | -41.91 |
| 119.24 | -70.46 | -62.08 | -7.32 | -1.06 | -25.00 | -45.46 |
| 182.29 | -66.27 | -61.23 | -3.81 | -1.23 | -25.00 | -41.27 |
| 217.21 | -67.11 | -64.00 | -1.74 | -1.37 | -25.00 | -42.11 |
| 228.85 | -68.01 | -65.22 | -1.37 | -1.42 | -25.00 | -43.01 |
| 243.40 | -65.81 | -62.58 | -1.74 | -1.49 | -25.00 | -40.81 |
| 5012.00 | -48.02 | -53.84 | 12.68 | -6.86 | -25.00 | -23.02 |

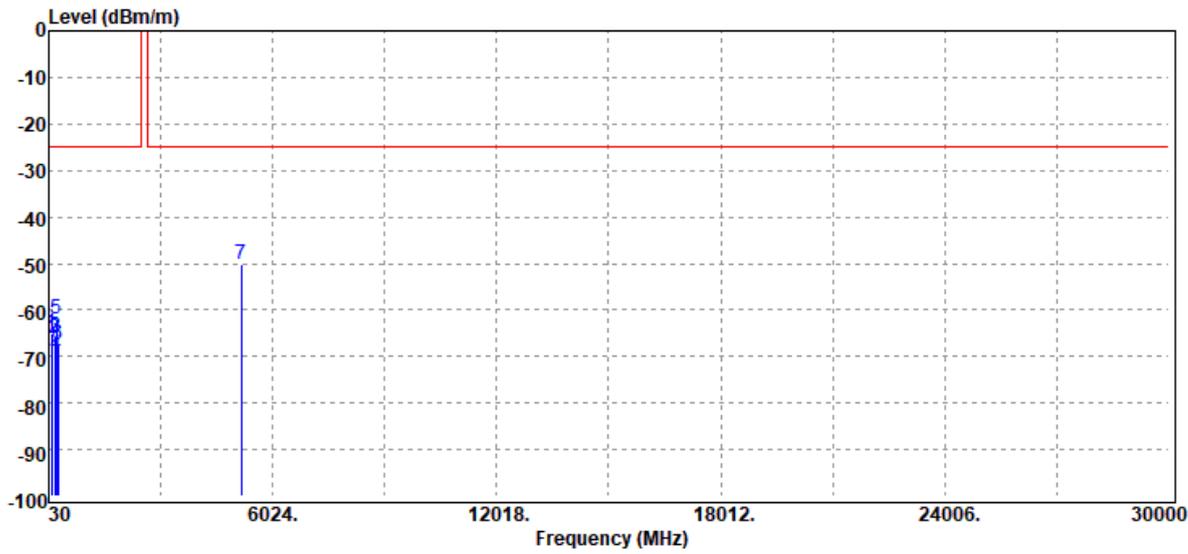
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Report Number :ER/2020/80144
 Operation Mode :LTE B41
 Test Mode :Tx CH Mid
 EUT Pol :NB Plane
 Test Frequency :2593 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :VERTICAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 100.81 | -65.19 | -58.04 | -6.20 | -0.95 | -25.00 | -40.19 |
| 187.14 | -65.92 | -61.39 | -3.27 | -1.26 | -25.00 | -40.92 |
| 217.21 | -65.87 | -62.76 | -1.74 | -1.37 | -25.00 | -40.87 |
| 226.91 | -69.42 | -66.68 | -1.33 | -1.41 | -25.00 | -44.42 |
| 243.40 | -61.87 | -58.64 | -1.74 | -1.49 | -25.00 | -36.87 |
| 285.11 | -67.48 | -64.06 | -1.83 | -1.59 | -25.00 | -42.48 |
| 5186.00 | -50.06 | -55.87 | 12.92 | -7.11 | -25.00 | -25.06 |

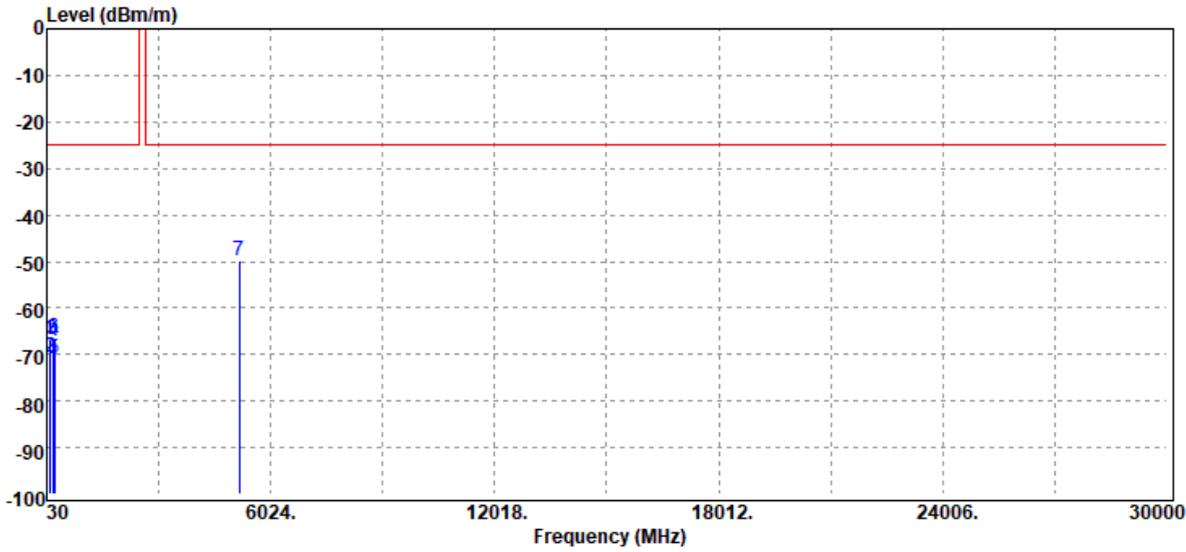
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Report Number :ER/2020/80144
 Operation Mode :LTE B41
 Test Mode :Tx CH Mid
 EUT Pol :NB Plane
 Test Frequency :2593 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 100.81 | -66.66 | -59.51 | -6.20 | -0.95 | -25.00 | -41.66 |
| 117.30 | -70.49 | -62.10 | -7.34 | -1.05 | -25.00 | -45.49 |
| 184.23 | -66.61 | -61.77 | -3.60 | -1.24 | -25.00 | -41.61 |
| 217.21 | -67.22 | -64.11 | -1.74 | -1.37 | -25.00 | -42.22 |
| 228.85 | -70.77 | -67.98 | -1.37 | -1.42 | -25.00 | -45.77 |
| 243.40 | -66.41 | -63.18 | -1.74 | -1.49 | -25.00 | -41.41 |
| 5186.00 | -49.94 | -55.75 | 12.92 | -7.11 | -25.00 | -24.94 |

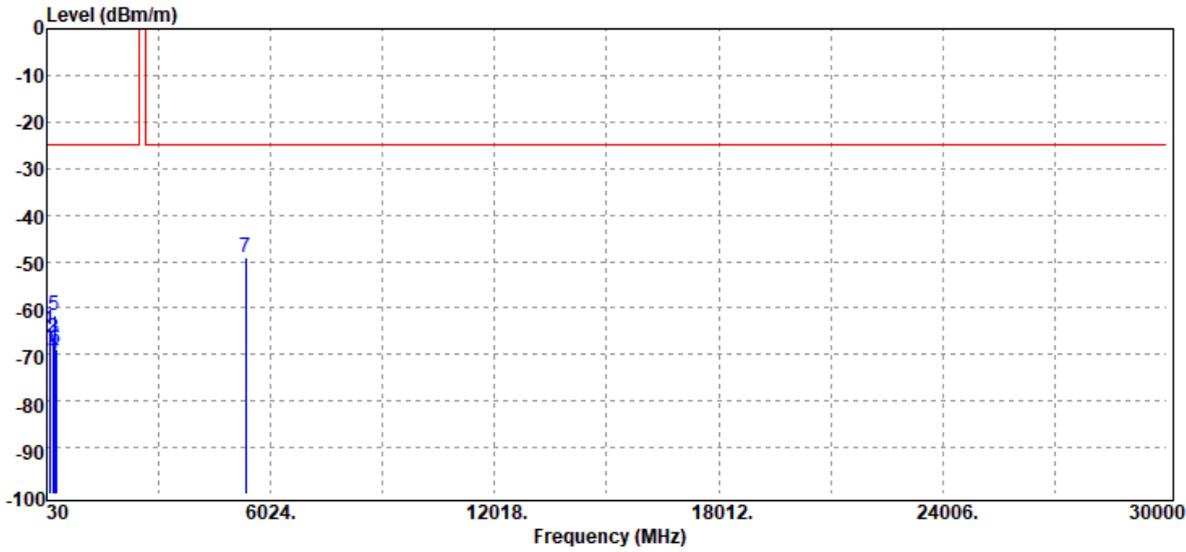
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Report Number :ER/2020/80144
 Operation Mode :LTE B41
 Test Mode :Tx CH High
 EUT Pol :NB Plane
 Test Frequency :2680 MHz

Test Site :SAC I Chamber
 Test Date :2020-09-17
 Temp./Humi. :25.0/69
 Antenna Pol. :VERTICAL
 Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 100.81 | -64.80 | -57.65 | -6.20 | -0.95 | -25.00 | -39.80 |
| 185.20 | -66.47 | -61.75 | -3.47 | -1.25 | -25.00 | -41.47 |
| 217.21 | -66.27 | -63.16 | -1.74 | -1.37 | -25.00 | -41.27 |
| 228.85 | -69.88 | -67.09 | -1.37 | -1.42 | -25.00 | -44.88 |
| 243.40 | -61.45 | -58.22 | -1.74 | -1.49 | -25.00 | -36.45 |
| 284.14 | -68.83 | -65.41 | -1.84 | -1.58 | -25.00 | -43.83 |
| 5360.00 | -48.97 | -55.41 | 13.48 | -7.04 | -25.00 | -23.97 |

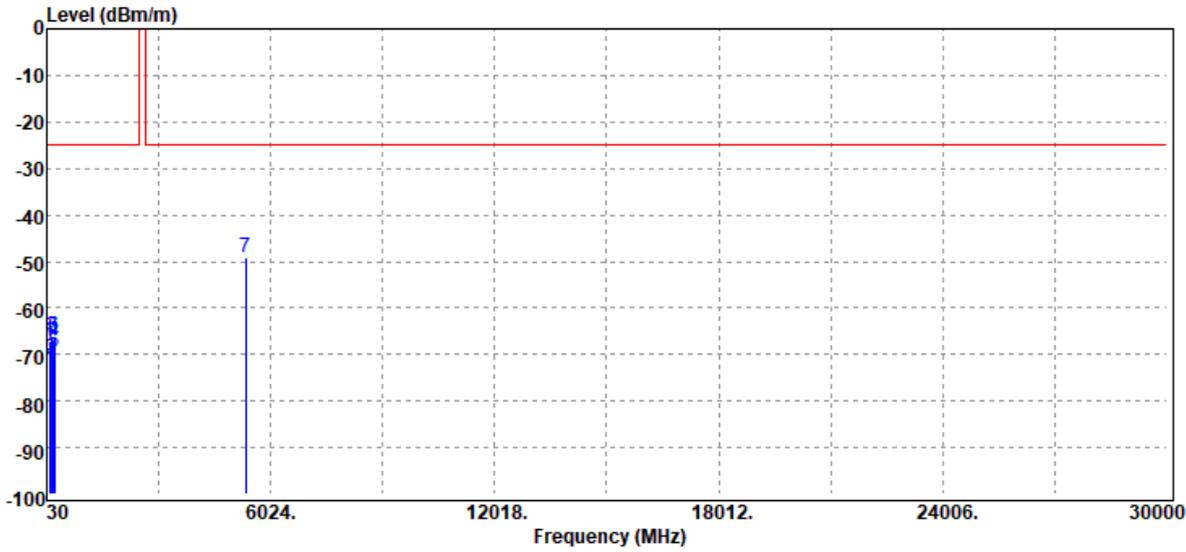
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Report Number :ER/2020/80144
Operation Mode :LTE B41
Test Mode :Tx CH High
EUT Pol :NB Plane
Test Frequency :2680 MHz

Test Site :SAC I Chamber
Test Date :2020-09-17
Temp./Humi. :25.0/69
Antenna Pol. :HORIZONTAL
Engineer :Neo



| Freq. MHz | EIRP/ERP dBm | SG Output Level dBm | Antenna Gain dBi/dBd | Cable Loss dB | Limit dBm | Margin dB |
|--------------|-----------------|---------------------------|----------------------------|---------------------|--------------|--------------|
| 97.90 | -66.99 | -60.26 | -5.79 | -0.94 | -25.00 | -41.99 |
| 117.30 | -70.82 | -62.43 | -7.34 | -1.05 | -25.00 | -45.82 |
| 180.35 | -66.09 | -60.69 | -4.17 | -1.23 | -25.00 | -41.09 |
| 217.21 | -67.24 | -64.13 | -1.74 | -1.37 | -25.00 | -42.24 |
| 230.79 | -69.54 | -66.67 | -1.44 | -1.43 | -25.00 | -44.54 |
| 243.40 | -66.25 | -63.02 | -1.74 | -1.49 | -25.00 | -41.25 |
| 5360.00 | -49.21 | -55.65 | 13.48 | -7.04 | -25.00 | -24.21 |

~ End of Report ~

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