

**ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT**  
**INTENTIONAL RADIATOR CERTIFICATION TO**  
**FCC PART 15 SUBPART E AND INDUSTRY CANADA RSS 247 REQUIREMENT**  
*OF*

**Applicant:** Razer Inc.  
201 3rd Street, Suite 900, San Francisco, CA 94103, USA

**Product Name:** Smart Phone

**Brand Name:** RAZER

**Model No.:** RZ35-0215

**Model Difference:** N/A

**FCC ID:** RWO-RZ350215

**IC:** 8092D- RZ350215

**Report No.:** E2/2017/80126

**FCC Rule Part:** §15.407, Cat: NII

**IC Rule Part:** RSS-247 issue 2 Feb. 2017

**Issue Date:** Oct. 03, 2017

**Date of Test:** Aug. 30, 2017 ~ Sep. 28, 2017

**Date of EUT Received:** Aug. 30, 2017

**We hereby certify that:**

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

**Prepared By:**

*Violetta Tang*

**Violetta Tang / Clerk**

**Approved By:**

*Jim Chang*

**Jim Chang / Asst. Manager**



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## Revision History

| Report Number | Revision | Description                  | Issue Date    |
|---------------|----------|------------------------------|---------------|
| E2/2017/80126 | Rev.00   | Initial creation of document | Oct. 03, 2017 |
|               |          |                              |               |
|               |          |                              |               |
|               |          |                              |               |

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# 1 GENERAL INFORMATION

## 1.1 Product Description

General:

|                              |                                                                                 |                                        |
|------------------------------|---------------------------------------------------------------------------------|----------------------------------------|
| Product Name:                | Smart Phone                                                                     |                                        |
| Brand Name:                  | RAZER                                                                           |                                        |
| Model No.:                   | RZ35-0215                                                                       |                                        |
| Model Difference:            | N/A                                                                             |                                        |
| Product SW/HW version:       | N/A / DVT                                                                       |                                        |
| Radio SW/HW version:         | N/A / N/A                                                                       |                                        |
| Test SW Version:             | N/A                                                                             |                                        |
| RF power setting in TEST SW: | N/A                                                                             |                                        |
| USB Cable:                   | Mode No.: RC30-02150700-0000, Supplier: Razer                                   |                                        |
| Audio Dongle:                | Mode No.: RC30-021505, Supplier: Razer                                          |                                        |
| Power Supply:                | 3.85Vdc from Rechargeable Li-ion Battery<br>or 5V/9V/12V by AC/DC Power Adapter |                                        |
|                              | Battery:                                                                        | Mode No.: RC30-0215, Supplier: Razer   |
|                              | Adapter:                                                                        | Mode No.: RC30-021501, Supplier: Razer |

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# FCC WLAN 5GHz:

| Wi-Fi               | Frequency Range | Channels | Avg. Power (dBm) | Modulation Technology |
|---------------------|-----------------|----------|------------------|-----------------------|
| 11a_20              | 5150~5250       | 4        | 17.94            | OFDM                  |
|                     | 5250~5350       | 4        | 17.99            |                       |
|                     | 5470~5725       | 11       | 18.20            |                       |
|                     | 5725-5850       | 5        | 18.21            |                       |
| 11n_HT / ac_VHT 20M | 5150~5250       | 4        | HT: 17.38        | OFDM                  |
|                     | 5250~5350       | 4        | HT: 17.39        |                       |
|                     | 5470~5725       | 11       | HT: 17.35        |                       |
|                     | 5725-5850       | 5        | HT: 17.40        |                       |
| 11n_HT / ac_VHT 40M | 5150~5250       | 2        | HT: 18.03        | OFDM                  |
|                     | 5250~5350       | 2        | HT: 17.73        |                       |
|                     | 5470~5725       | 5        | HT: 17.97        |                       |
|                     | 5725-5850       | 2        | HT: 18.05        |                       |
| 11ac VHT80M         | 5150~5250       | 1        | 16.03            | OFDM                  |
|                     | 5250~5350       | 1        | 16.07            |                       |
|                     | 5470~5725       | 2        | 15.77            |                       |
|                     | 5725-5850       | 1        | 15.91            |                       |

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# IC WLAN 5GHz:

| Wi-Fi                | Frequency Range | Channels                                                                                                                                                                                                                        | Avg. or EIRP | Rated Power(dBm) | Modulation Technology |
|----------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------|-----------------------|
| 11a                  | 5180~5240       | 4                                                                                                                                                                                                                               | EIRP         | 14.35            | OFDM                  |
|                      | 5260~5320       | 4                                                                                                                                                                                                                               | Avg.         | 17.80            |                       |
|                      | 5500~5580       | 5                                                                                                                                                                                                                               | Avg.         | 17.96            |                       |
|                      | 5660~5700       | 3                                                                                                                                                                                                                               | Avg.         | 17.98            |                       |
|                      | 5745~5825       | 5                                                                                                                                                                                                                               | Avg.         | 17.99            |                       |
| 11n_HT / ac_VHT 20M  | 5180~5240       | 4                                                                                                                                                                                                                               | EIRP         | HT: 13.79        | OFDM                  |
|                      | 5260~5320       | 4                                                                                                                                                                                                                               | Avg.         | HT: 16.98        |                       |
|                      | 5500~5580       | 5                                                                                                                                                                                                                               | Avg.         | HT: 16.81        |                       |
|                      | 5660~5700       | 3                                                                                                                                                                                                                               | Avg.         | HT: 16.94        |                       |
|                      | 5745~5825       | 5                                                                                                                                                                                                                               | Avg.         | HT: 16.99        |                       |
| 11n_HT / ac_VHT 40M  | 5190~5230       | 2                                                                                                                                                                                                                               | EIRP         | HT: 14.44        | OFDM                  |
|                      | 5270~5310       | 2                                                                                                                                                                                                                               | Avg.         | HT: 14.82        |                       |
|                      | 5510~5550       | 2                                                                                                                                                                                                                               | Avg.         | HT: 14.99        |                       |
|                      | 5670~5670       | 1                                                                                                                                                                                                                               | Avg.         | HT: 14.63        |                       |
|                      | 5755~5795       | 2                                                                                                                                                                                                                               | Avg.         | HT: 14.70        |                       |
| 11ac VHT80M          | 5210~5210       | 1                                                                                                                                                                                                                               | EIRP         | 12.44            | OFDM                  |
|                      | 5290~5290       | 1                                                                                                                                                                                                                               | Avg.         | 14.92            |                       |
|                      | 5530~5530       | 1                                                                                                                                                                                                                               | Avg.         | 14.62            |                       |
|                      | 5775~5775       | 1                                                                                                                                                                                                                               | Avg.         | 14.75            |                       |
| Modulation Type      |                 | 64QAM, 16QAM, QPSK, BPSK for OFDM<br>256QAM for OFDM in 802.11ac only                                                                                                                                                           |              |                  |                       |
| Transition Rate:     |                 | 802.11 a: 6/9/12/18/24/36/48/54 Mbps<br>802.11 n_20MHz: 6.5 – 72.2Mbps<br>802.11 n_40MHz: 13.5 - 150.0Mbps<br>802.11 ac_20MHz: 6.5 –86.7Mbps<br>802.11 ac_40MHz: 13.5 -200.0Mbps<br>802.11 ac_80MHz: 29.3 – 433.3Mbps           |              |                  |                       |
| Antenna Designation: |                 | PIFA Antenna,<br>5150~5250MHz Gain: -6.6dBi (Main) / -8.3dBi (Aux)<br>5250~5350MHz Gain: -7.4dBi (Main) / -9dBi (Aux)<br>5470~5725MHz Gain: -5.2dBi (Main) / -9.4dBi (Aux)<br>5725~5850MHz Gain: -6.2dBi (Main) / -9.5dBi (Aux) |              |                  |                       |

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## 1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules

FCC KDB 662911 D01 Multiple Transmitter Output

FCC KDB 644545 D03 Guidance for IEEE 802.11ac v01

RSS-247 issue 2 Feb. 2017

RSS-Gen issue4 Nov. 2014

ANSI C63.10:2013

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

## 1.3 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd.,  
Guishan District, Taoyuan City, Taiwan 333 (TAF code 0513)

FCC Registration Numbers are: 735305

Canada Registration Number: 4620A-5

## 1.4 Special Accessories

There are no special accessories used while test was conducted.

## 1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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## 2 SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

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

### 2.2 EUT Exercise

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

### 2.3 Test Procedure

#### 2.3.1 Conducted Emissions

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

#### 2.3.2 Radiated Emissions

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

### 2.4 Measurement Results Explanation Example

#### For all conducted test items:

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

#### Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Following shows an offset computation example with cable loss 1dB, and 10dB attenuator (SISO, with cable loss 4dB, and 10dB attenuator (MIMO).

#### Offset :

SISO mode offset = RF cable loss (dB)+ attenuation factor(dB) =11(dB)

MIMO mode offset = RF cable loss (dB)+ attenuation factor(dB) =14(dB)

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## 2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission



Fig. 2-3 Conducted (Antenna Port) Emission



Fig. 2-2 AC Power Line Conducted Emission

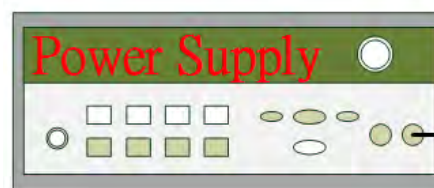
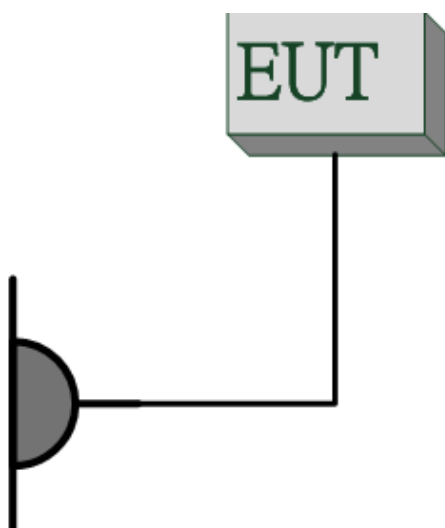


Table 2-1 Equipment Used in Tested System

| Item | Equipment          | Mfr/Brand | Model/Type No. | Series No. | Data Cable | Power Cord |
|------|--------------------|-----------|----------------|------------|------------|------------|
| 1.   | WLAN Test Software | N/A       | N/A            | N/A        | N/A        | N/A        |
| 2.   | DC Power Supply    | Agilent   | E3640A         | MY53140006 | N/A        | N/A        |
| 3.   | Notebook           | Lenovo    | L430           | PK-OCGFF   | N/A        | N/A        |

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### 3 SUMMARY OF TEST RESULT

| FCC Rules                | IC Rules                              | Description Of Test                            | Result    |
|--------------------------|---------------------------------------|------------------------------------------------|-----------|
| §15.207                  | RSS-Gen §8.8                          | AC Power Line Conducted Emission               | Compliant |
| §15.403(i)<br>§15.407(e) | RSS-247 §6.2.1~ 4 (1)<br>RSS-Gen §6.6 | 26 dB & 6dB & 99% Emission Bandwidth           | Compliant |
| §15.407(a)               | RSS-247 §6.2.1~ 4 (1)                 | Maximum Conducted Output Power                 | Compliant |
| §15.407(a)               | RSS-247 §6.2.1~ 4 (1)                 | Power Spectral Density                         | Compliant |
| §15.407(b)               | RSS-247 §6.2.1~ 4 (2)                 | Undesirable Radiated Emissions                 | Compliant |
| §15.407(c)               | RSS-247 §6.4                          | Transmission in case of Absence of Information | Compliant |
| §15.407(g)               | RSS-Gen §6.11                         | Frequency Stability                            | Compliant |
| §15.203<br>§15.407(a)    | RSS- Gen §6.7<br>RSS- Gen §8.3        | Antenna Requirement                            | Compliant |

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## 4 DESCRIPTION OF TEST MODES

### 4.1 Operated in U-NII Bands

Operated band in 5150 MHz ~5250 MHz:

4 channels are provided for 802.11a, 802.11n\_HT20, 802.11ac\_VHT20

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 36      | 5180 MHz  | 44      | 5220 MHz  |
| 40      | 5200 MHz  | 48      | 5240 MHz  |

2 channels are provided for 802.11n\_HT40, 802.11ac\_VHT40

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 38      | 5190 MHz  | 46      | 5230 MHz  |

1 channel is provided for 802.11ac\_VHT80

| CHANNEL | FREQUENCY |
|---------|-----------|
| 42      | 5210 MHz  |

Operated band in 5250 MHz ~5350 MHz:

4 channels are provided for 802.11a, 802.11n\_HT20, 802.11ac\_VHT20

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 52      | 5260 MHz  | 60      | 5300 MHz  |
| 56      | 5280 MHz  | 64      | 5320 MHz  |

2 channels are provided for 802.11n\_HT40, 802.11ac\_VHT40

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 54      | 5270 MHz  | 62      | 5310 MHz  |

1 channel is provided for 802.11ac\_VHT80

| CHANNEL | FREQUENCY |
|---------|-----------|
| 58      | 5290 MHz  |

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Operated band in 5470 MHz ~5725 MHz:

11 channels are provided for 802.11a, 802.11n\_HT20, 802.11ac\_VHT20

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 100     | 5500 MHz  | 124     | 5620 MHz  |
| 104     | 5520 MHz  | 128     | 5640 MHz  |
| 108     | 5540 MHz  | 132     | 5660 MHz  |
| 112     | 5560 MHz  | 136     | 5680 MHz  |
| 116     | 5580 MHz  | 140     | 5700 MHz  |
| 120     | 5600 MHz  |         |           |

5 channels are provided for 802.11n\_HT40, 802.11ac\_VHT40

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 102     | 5510 MHz  | 126     | 5630 MHz  |
| 110     | 5550 MHz  | 134     | 5670 MHz  |
| 118     | 5590 MHz  |         |           |

2 channels are provided for 802.11ac\_VHT80

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 106     | 5530 MHz  | 122     | 5610 MHz  |

Operated band in 5725 MHz ~5850 MHz:

5 channels are provided for 802.11a, 802.11n\_HT20, 802.11ac\_VHT20

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 149     | 5745 MHz  | 161     | 5805 MHz  |
| 153     | 5765 MHz  | 165     | 5825 MHz  |
| 157     | 5785 MHz  |         |           |

2 channels are provided for 802.11n\_HT40, 802.11ac\_VHT40

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 151     | 5755 MHz  | 159     | 5795 MHz  |

1 channel is provided for 802.11ac\_VHT80

| CHANNEL | FREQUENCY |
|---------|-----------|
| 155     | 5775 MHz  |

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## 4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.
4. The given UE is pre-scanned among 802.11n and ac modes, and 802.11n yields the highest reading that generates the highest emission.
5. The given UE is pre-scanned among SISO Main, SISO Aux and MIMO modes, and MIMO mode yields the highest reading that generates the highest emission. Therefore, 802.11ac+MIMO as the mode of radiated test configuration is chosen to carry out the relevantly mandatory test items.

## RADIATED EMISSION TEST:

| RADIATED EMISSION TEST (BELOW 1 GHz) |                      |                   |                |            |                  |              |
|--------------------------------------|----------------------|-------------------|----------------|------------|------------------|--------------|
| MODE                                 | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11a                              | 5180~5240            | 36 to 48          | 36,44,48       | OFDM       | 6                | MIMO         |
| 802.11ac_VHT80                       | 5210                 | 42                | 42             | OFDM       | MCS8             | MIMO         |
| 802.11a                              | 5260~5320            | 52 to 64          | 52,60,64       | OFDM       | 6                | MIMO         |
| 802.11ac_VHT80                       | 5290                 | 58                | 58             | OFDM       | MCS8             | MIMO         |
| 802.11a                              | 5500~5720            | 100 to 140        | 100,116,140    | OFDM       | 6                | MIMO         |
| 802.11ac_VHT80                       | 5530~5690            | 106 to 138        | 106,122,138    | OFDM       | MCS8             | MIMO         |
| 802.11a                              | 5745~5825            | 149 to 165        | 149,157,165    | OFDM       | 6                | MIMO         |
| 802.11ac_VHT80                       | 5775                 | 155               | 155            | OFDM       | MCS8             | MIMO         |
| RADIATED EMISSION TEST (ABOVE 1 GHz) |                      |                   |                |            |                  |              |
| MODE                                 | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11a                              | 5180~5240            | 36 to 48          | 36,44,48       | OFDM       | 6                | MIMO         |
| 802.11n_HT20                         |                      |                   |                | OFDM       | MCS8             | MIMO         |
| 802.11n_HT40                         | 5190~5230            | 38 to 46          | 38,46          | OFDM       | MCS8             | MIMO         |
| 802.11ac_VHT80                       | 5210                 | 42                | 42             | OFDM       | MCS8             | MIMO         |
| 802.11a                              | 5260~5320            | 52 to 64          | 52,60,64       | OFDM       | 6                | MIMO         |
| 802.11n_HT20                         |                      |                   |                | OFDM       | MCS8             | MIMO         |
| 802.11n_HT40                         | 5270~5310            | 54 to 62          | 54,62          | OFDM       | MCS8             | MIMO         |
| 802.11ac_VHT80                       | 5290                 | 58                | 58             | OFDM       | MCS8             | MIMO         |

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| MODE           | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
|----------------|----------------------|-------------------|----------------|------------|------------------|--------------|
| 802.11a        | 5500~5720            | 100 to 144        | 100,116,140    | OFDM       | 6                | MIMO         |
| 802.11n_HT20   |                      |                   |                | OFDM       | MCS8             | MIMO         |
| 802.11n_HT40   | 5510~5710            | 102 to 142        | 102,110,134    | OFDM       | MCS8             | MIMO         |
| 802.11ac_VHT80 | 5530~5610            | 106 to 122        | 106,122        | OFDM       | MCS8             | MIMO         |
| 802.11a        | 5745~5825            | 149 to 165        | 149,157,165    | OFDM       | 6                | MIMO         |
| 802.11n_HT20   |                      |                   |                | OFDM       | MCS8             | MIMO         |
| 802.11n_HT40   | 5755~5795            | 151 to 159        | 151,159        | OFDM       | MCS8             | MIMO         |
| 802.11ac_VHT80 | 5775                 | 155               | 155            | OFDM       | MCS8             | MIMO         |

**Note:**

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 802.11a/n/ac WLAN Transmitter for channel Low, Mid and High, the worst case H position was reported.

**ANTENNA PORT CONDUCTED MEASUREMENT:**

| CONDUCTED TEST |                      |                   |                 |            |                  |              |
|----------------|----------------------|-------------------|-----------------|------------|------------------|--------------|
| MODE           | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL  | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11a        | 5180~5240            | 36 to 48          | 36,44,48        | OFDM       | 6                | MIMO         |
| 802.11n_HT20   |                      |                   |                 | OFDM       | MCS8             | MIMO         |
| 802.11n_HT40   | 5190~5230            | 38 to 46          | 38,46           | OFDM       | MCS8             | MIMO         |
| 802.11ac_VHT80 | 5210                 | 42                | 42              | OFDM       | MCS8             | MIMO         |
| 802.11a        | 5260~5320            | 52 to 64          | 52,60,64        | OFDM       | 6                | MIMO         |
| 802.11n_HT20   |                      |                   |                 | OFDM       | MCS8             | MIMO         |
| 802.11n_HT40   | 5270~5310            | 54 to 62          | 54,62           | OFDM       | MCS8             | MIMO         |
| 802.11ac_VHT80 | 5290                 | 58                | 58              | OFDM       | MCS8             | MIMO         |
| 802.11a        | 5500~5720            | 100 to 144        | 100,116,140,144 | OFDM       | 6                | MIMO         |
| 802.11n_HT20   |                      |                   |                 | OFDM       | MCS8             | MIMO         |
| 802.11n_HT40   | 5510~5710            | 102 to 142        | 102,110,134,142 | OFDM       | MCS8             | MIMO         |
| 802.11ac_VHT80 | 5530~5610            | 106 to 122        | 106,122         | OFDM       | MCS8             | MIMO         |
| 802.11a        | 5745~5825            | 149 to 165        | 149,157,165     | OFDM       | 6                | MIMO         |
| 802.11n_HT20   |                      |                   |                 | OFDM       | MCS8             | MIMO         |
| 802.11n_HT40   | 5755~5795            | 151 to 159        | 151,159         | OFDM       | MCS8             | MIMO         |
| 802.11ac_VHT80 | 5775                 | 155               | 155             | OFDM       | MCS8             | MIMO         |

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## 5 MEASUREMENT UNCERTAINTY

| Test Items                              | Uncertainty                |
|-----------------------------------------|----------------------------|
| AC Power Line Conducted Emission        | +/- 2.586 dB               |
| 26dB & 6dB Emission Bandwidth           | +/- 123.36 Hz              |
| The Maximum Output Power Measurement    | +/- 0.96 dB                |
| Peak Power Spectral Density Measurement | +/- 1.67 dB                |
| Frequency Stability                     | +/- 123.36 Hz              |
| Temperature                             | +/- 0.65 °C                |
| Humidity                                | +/- 4.6 %                  |
| DC / AC Power Source                    | DC= +/- 0.13%, AC=+/- 0.2% |

Radiated Spurious Emission:

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

|                                                                |                            |
|----------------------------------------------------------------|----------------------------|
| Measurement uncertainty<br>(Polarization : <b>Horizontal</b> ) | 9kHz-30MHz: +/-2.87dB      |
|                                                                | 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 CONDUCTED EMISSION TEST

### 6.1 Standard Applicable

Frequency range within 150 kHz to 30 MHz shall not exceed the Limit table as below.

| Frequency range<br>MHz                                                                                                                                                         | Limits<br>dB(uV) |          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------|
|                                                                                                                                                                                | Quasi-peak       | Average  |
| 0.15 to 0.50                                                                                                                                                                   | 66 to 56         | 56 to 46 |
| 0.50 to 5                                                                                                                                                                      | 56               | 46       |
| 5 to 30                                                                                                                                                                        | 60               | 50       |
| Note<br>1. The lower limit shall apply at the transition frequencies<br>2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz. |                  |          |

### 6.2 Measurement Equipment Used

| Conducted Emission Test Site |             |                       |                  |            |            |
|------------------------------|-------------|-----------------------|------------------|------------|------------|
| EQUIPMENT TYPE               | MFR         | MODEL NUMBER          | SERIAL NUMBER    | LAST CAL.  | CAL DUE.   |
| EMI Test Receiver            | R&S         | ESCI 7                | 100950           | 12/12/2016 | 12/11/2017 |
| Coaxial Cables               | N/A         | N30N30-1042-1<br>50cm | N/A              | 08/30/2017 | 08/29/2018 |
| LISN                         | Schwarzbeck | NSLK 8127             | 8127-648         | 06/13/2017 | 06/12/2018 |
| Test Software                | Farad       | EZ-EMC                | Ver.<br>SGS-03A2 | N.C.R.     | N.C.R.     |

### 6.3 EUT Setup

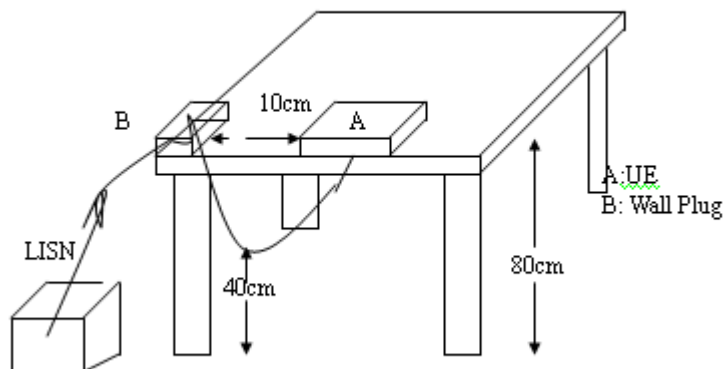
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The LISN was connected with 120Vac/60Hz power source.

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## 6.4 Test SET-UP



## 6.5 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed.

## 6.6 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The \* reveals the worst-case results that closet to the limit.

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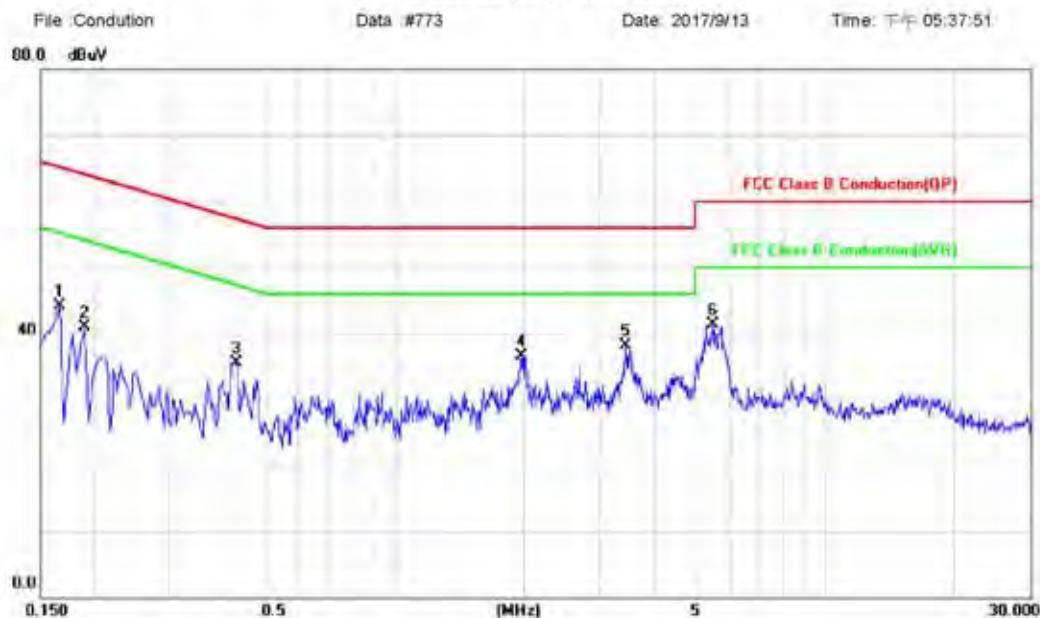
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## AC POWER LINE CONDUCTED EMISSION TEST DATA

|                 |                |           |      |            |               |
|-----------------|----------------|-----------|------|------------|---------------|
| Operation Mode: | Operation mode |           |      | Test Date: | Sep. 13, 2017 |
| Temperature:    | 23             | Humidity: | 71 % | Test By:   | Jerry         |
|                 |                |           |      | Phase:     | L1            |

Site : Conduction Room Phase: L1 Temperature: 23 ℃  
Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 71 %  
Mode:  
Note:

## Conducted Emission



| No. | Mk. | Freq.  | Reading Level | Correct Factor | Measurement | Limit | Over   |          |         |
|-----|-----|--------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz    | dBuV          | dB             | dBuV        | dBuV  | dB     | Detector | Comment |
| 1   |     | 0.1660 | 24.40         | 19.65          | 44.05       | 65.16 | -21.11 | peak     |         |
| 2   |     | 0.1900 | 21.24         | 19.64          | 40.88       | 64.04 | -23.16 | peak     |         |
| 3   |     | 0.4300 | 15.56         | 20.01          | 35.57       | 57.25 | -21.68 | peak     |         |
| 4   |     | 1.9740 | 15.99         | 20.54          | 36.53       | 56.00 | -19.47 | peak     |         |
| 5 * |     | 3.4380 | 17.70         | 20.33          | 38.03       | 56.00 | -17.97 | peak     |         |
| 6   |     | 5.5020 | 21.21         | 20.09          | 41.30       | 60.00 | -18.70 | peak     |         |

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Site : Conduction Room

Phase: N

Temperature: 23 ℃

Limit: FCC Class B Conduction(QP)

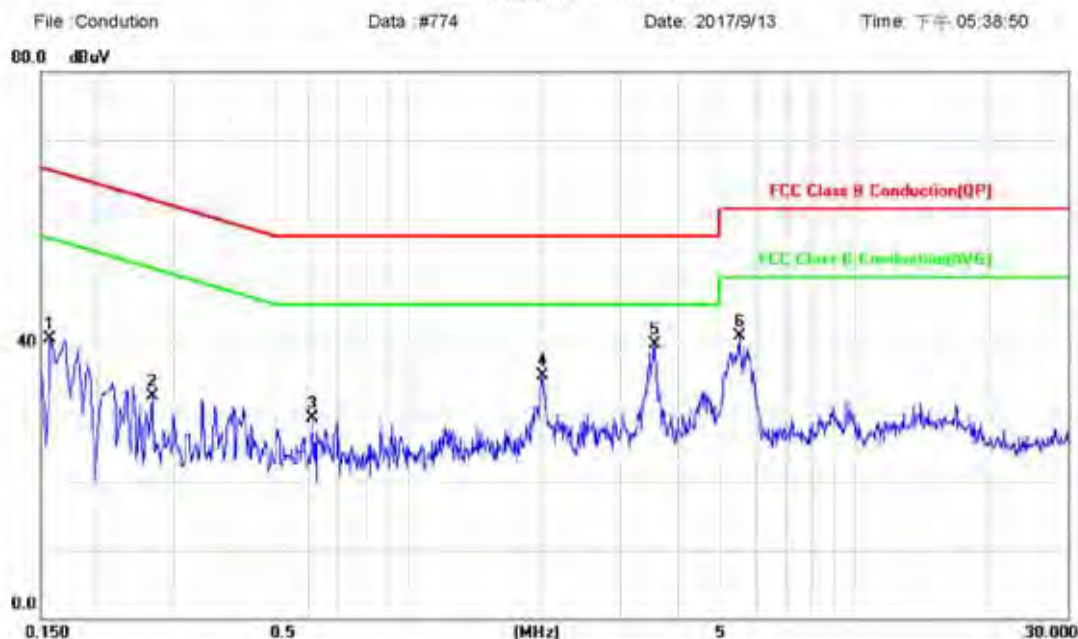
Power: AC 120V/60Hz

Humidity: 71 %

Mode:

Note:

## Conducted Emission



| No. | Mk. | Freq.  | Reading Level | Correct Factor | Measurement | Limit | Over   |          |         |
|-----|-----|--------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz    | dBuV          | dB             | dBuV        | dBuV  | dB     | Detector | Comment |
| 1   |     | 0.1580 | 21.32         | 19.50          | 40.82       | 65.57 | -24.75 | peak     |         |
| 2   |     | 0.2660 | 12.96         | 19.60          | 32.56       | 61.24 | -28.68 | peak     |         |
| 3   |     | 0.6100 | 9.32          | 19.93          | 29.25       | 56.00 | -26.75 | peak     |         |
| 4   |     | 1.9980 | 15.15         | 20.42          | 35.57       | 56.00 | -20.43 | peak     |         |
| 5   | *   | 3.5740 | 19.86         | 20.18          | 40.04       | 56.00 | -15.96 | peak     |         |
| 6   |     | 5.5180 | 21.33         | 19.96          | 41.29       | 60.00 | -18.71 | peak     |         |

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## 7 DUTY CYCLE TEST SIGNAL

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

### Formula:

$$\text{Duty Cycle} = \text{Ton} / (\text{Ton} + \text{Toff})$$

### Measurement Procedure:

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

Duty Cycle:

| Mode        | Duty Cycle (%) | Duty Factor (dB)<br>=10*log ( 1/Duty Cycle ) |
|-------------|----------------|----------------------------------------------|
| 802.11a     | 95.07          | 0.22                                         |
| 802.11n_20  | 91.00          | 0.41                                         |
| 802.11ac_20 | 94.70          | 0.24                                         |
| 802.11n_40  | 78.48          | 1.05                                         |
| 802.11ac_40 | 89.69          | 0.47                                         |
| 802.11ac_80 | 76.65          | 1.15                                         |

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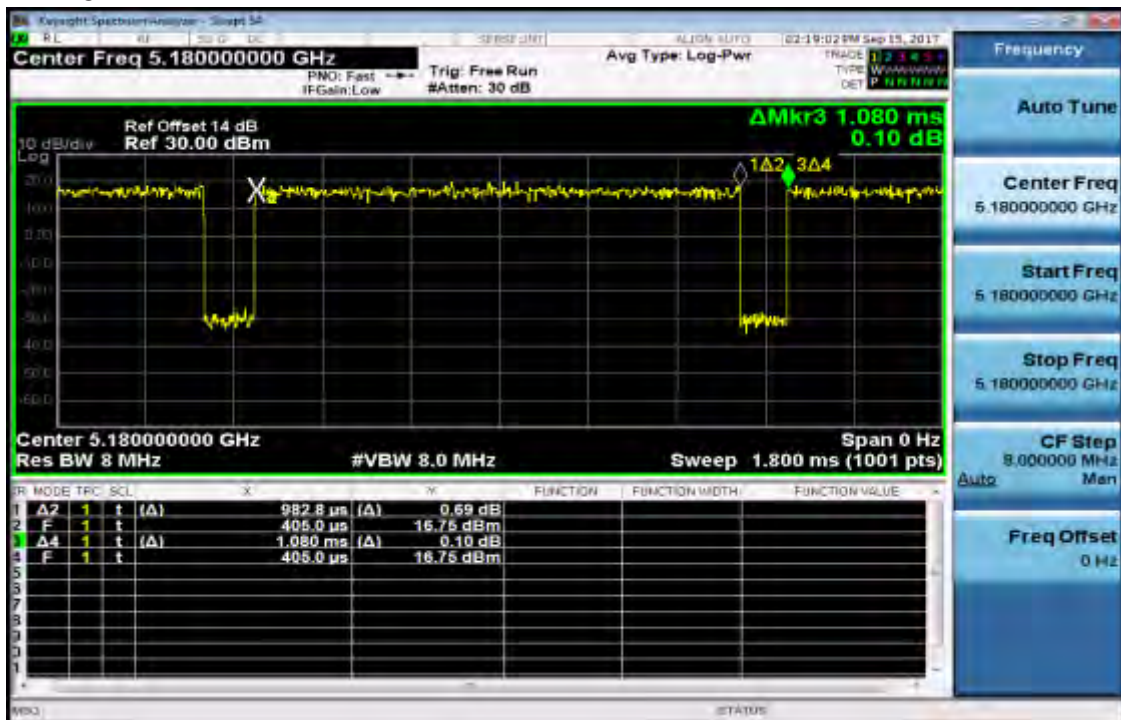
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## DUTY CYCLE TEST SIGNAL Measurement Result

### 802.11a



### 802.11n HT20



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## 802.11n HT 40



## 802.11 ac VHT 80



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## 8 26DB & 6DB EMISSION BANDWIDTH MEASUREMENT

### 8.1 Standard Applicable

There is no limit bandwidth for U-NII-1, U-NII-2-A and U-NII-2-C.

The minimum of 6dB Bandwidth measurement is 0.5 MHz for U-NII-3

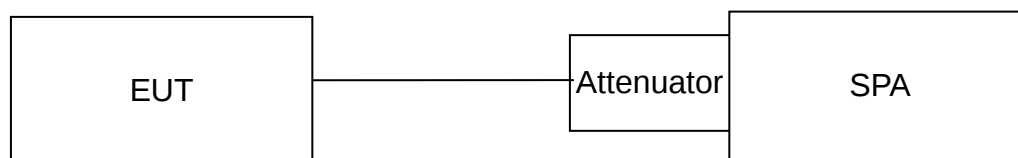
### 8.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
  - a. 26dB Band width Measurement: Set the spectrum analyzer as 1% of emission BW Sweep=auto, Detector = Peak, Trace Mode = Max Hold, Manually readjust RBW until the RBW/EBW ratio is 1% based on EBW as observed on the result of pre-sequence measurement.
  - b. Mark the peak frequency and -26dB (upper and lower) frequency.
4. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.
5. Minimum Emission Bandwidth for the band 5.725-5.850GHz.
  - a. Set the spectrum analyzer as RBW = 100 kHz, VBW = 3\*RBW, Span = 30M/50MHz, Detector=Peak, Sweep=auto
  - b. Mark the peak frequency and -6dB (upper and lower) frequency.
6. Repeat above procedures until all test default channel measured were complete.

### 8.3 Measurement Equipment Used

| SGS Conducted Room |              |                |               |                  |                 |
|--------------------|--------------|----------------|---------------|------------------|-----------------|
| Name of Equipment  | Manufacturer | Model          | Serial Number | Calibration Date | Calibration Due |
| Spectrum Analyzer  | KEYSIGHT     | N9010A         | MY51440113    | 06/20/2017       | 06/19/2018      |
| Coaxial Cable 30cm | WOKEN        | 00100A1F1A195C | RF01          | 12/12/2016       | 12/11/2017      |
| DC Block           | PASTERNAK    | PE8210         | RF29          | 12/12/2016       | 12/11/2017      |
| Attenuator         | WOKEN        | 218FS-10       | RF23          | 12/12/2016       | 12/11/2017      |
| DC Power Supply    | Agilent      | E3640A         | MY53140006    | 05/02/2017       | 05/01/2018      |

### 8.4 Test Set-up



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## 8.5 Measurement Result

### 26dB and 6dB Bandwidth

802.11a\_Main

| Frequency (MHz) | 26dB BW (MHz) | 10 Log (B) (dB) | Frequency (MHz) | 26dB BW (MHz) | 10 Log (B) (dB) |
|-----------------|---------------|-----------------|-----------------|---------------|-----------------|
| 5180            | 21.58         | 13.341          | 5180            | 21.75         | 13.375          |
| 5220            | 22.88         | 13.595          | 5220            | 23.44         | 13.700          |
| 5240            | 22.40         | 13.502          | 5240            | 22.86         | 13.591          |
| 5260            | 23.42         | 13.696          | 5260            | 23.48         | 13.707          |
| 5300            | 23.02         | 13.621          | 5300            | 24.46         | 13.885          |
| 5320            | 21.56         | 13.336          | 5320            | 21.45         | 13.314          |
| 5500            | 23.55         | 13.720          | 5500            | 21.41         | 13.306          |
| 5580            | 21.55         | 13.334          | 5580            | 22.96         | 13.610          |
| 5700            | 22.45         | 13.512          | 5700            | 21.47         | 13.318          |

802.11a\_Aux1

802.11a\_Main

| Frequency (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) | Frequency (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) |
|-----------------|--------------|-----------------|-----------------|--------------|-----------------|
| 5745            | 15.97        | 12.033          | 5745            | 15.12        | 11.796          |
| 5785            | 15.94        | 12.025          | 5785            | 15.47        | 11.895          |
| 5825            | 15.82        | 11.992          | 5825            | 16.29        | 12.119          |

802.11a\_Aux1

802.11a\_Main

| Frequency (MHz) | Measured Frequency (MHz) | Limit (MHz) |
|-----------------|--------------------------|-------------|
| 5240            | 5248.49                  | < 5250      |
| 5745            | 5736.09                  | > 5725      |

802.11a\_Aux1

| Frequency (MHz) | Measured Frequency (MHz) | Limit (MHz) |
|-----------------|--------------------------|-------------|
| 5240            | 5248.37                  | < 5250      |
| 5745            | 5736.72                  | > 5725      |

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802.11n\_HT20\_Main

| Frequency (MHz) | 26dB BW (MHz) | 10 Log (B) (dB) | Frequency (MHz) | 26dB BW (MHz) | 10 Log (B) (dB) |
|-----------------|---------------|-----------------|-----------------|---------------|-----------------|
| 5180            | 23.13         | 13.642          | 5180            | 23.54         | 13.718          |
| 5220            | 22.96         | 13.610          | 5220            | 22.83         | 13.585          |
| 5240            | 22.74         | 13.568          | 5240            | 22.81         | 13.581          |
| 5260            | 22.82         | 13.583          | 5260            | 23.71         | 13.749          |
| 5300            | 23.31         | 13.675          | 5300            | 23.26         | 13.666          |
| 5320            | 23.23         | 13.660          | 5320            | 22.90         | 13.598          |
| 5500            | 22.09         | 13.442          | 5500            | 22.83         | 13.585          |
| 5580            | 22.76         | 13.572          | 5580            | 22.87         | 13.593          |
| 5700            | 23.14         | 13.644          | 5700            | 23.85         | 13.775          |

802.11n\_HT20\_Aux1

802.11n\_HT20\_Main

| Frequency (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) | Frequency (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) |
|-----------------|--------------|-----------------|-----------------|--------------|-----------------|
| 5745            | 15.70        | 11.959          | 5745            | 16.89        | 12.276          |
| 5785            | 16.83        | 12.261          | 5785            | 16.89        | 12.276          |
| 5825            | 15.66        | 11.948          | 5825            | 16.96        | 12.294          |

802.11n\_HT20\_Aux1

802.11n\_HT20\_Main

| Frequency (MHz) | Measured Frequency (MHz) | Limit (MHz) |
|-----------------|--------------------------|-------------|
| 5240            | 5248.94                  | < 5250      |
| 5745            | 5736.78                  | > 5725      |

802.11n\_HT20\_Aux1

| Frequency (MHz) | Measured Frequency (MHz) | Limit (MHz) |
|-----------------|--------------------------|-------------|
| 5240            | 5248.97                  | < 5250      |
| 5745            | 5736.12                  | > 5725      |

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802.11n\_HT40\_Main

| Frequency (MHz) | 26dB BW (MHz) | 10 Log (B) (dB) |
|-----------------|---------------|-----------------|
| 5190            | 41.35         | 16.165          |
| 5230            | 41.11         | 16.139          |
| 5270            | 41.33         | 16.163          |
| 5310            | 40.55         | 16.080          |
| 5510            | 41.13         | 16.142          |
| 5550            | <b>40.45</b>  | 16.069          |
| 5670            | 40.28         | 16.051          |

802.11n\_HT40\_Aux1

| Frequency (MHz) | 26dB BW (MHz) | 10 Log (B) (dB) |
|-----------------|---------------|-----------------|
| 5190            | 41.07         | 16.135          |
| 5230            | 41.10         | 16.138          |
| 5270            | 40.70         | 16.096          |
| 5310            | 41.63         | 16.194          |
| 5510            | 41.40         | 16.170          |
| 5550            | 41.16         | 16.145          |
| 5670            | 40.91         | 16.118          |

802.11n\_HT40\_Main

| Frequency (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) |
|-----------------|--------------|-----------------|
| 5755            | 36.33        | 15.603          |
| 5795            | 36.28        | 15.597          |

802.11n\_HT40\_Aux1

| Frequency (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) |
|-----------------|--------------|-----------------|
| 5755            | 35.72        | 15.529          |
| 5795            | 35.15        | 15.459          |

802.11n\_HT40\_Main

| Frequency (MHz) | Measured Frequency (MHz) | Limit (MHz) |
|-----------------|--------------------------|-------------|
| 5230            | 5248.17                  | < 5250      |
| 5755            | 5736.92                  | > 5725      |

802.11n\_HT40\_Aux1

| Frequency (MHz) | Measured Frequency (MHz) | Limit (MHz) |
|-----------------|--------------------------|-------------|
| 5230            | 5248.22                  | < 5250      |
| 5755            | 5736.97                  | > 5725      |

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802.11ac \_VHT80\_Main

| Frequency (MHz) | 26dB BW (MHz) | 10 Log (B) (dB) |
|-----------------|---------------|-----------------|
| 5210            | 82.12         | 19.144          |
| 5290            | 82.66         | 19.173          |
| 5530            | 82.78         | 19.179          |
| 5610            | 82.77         | 19.179          |

802.11ac \_VHT80\_Aux1

| Frequency (MHz) | 26dB BW (MHz) | 10 Log (B) (dB) |
|-----------------|---------------|-----------------|
| 5210            | 82.98         | 19.190          |
| 5290            | 82.46         | 19.162          |
| 5530            | 83.44         | 19.214          |
| 5610            | 81.70         | 19.122          |

802.11ac \_VHT80\_Main

| Frequency (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) |
|-----------------|--------------|-----------------|
| 5775            | 75.19        | 18.762          |

802.11ac \_VHT80\_Aux1

| Frequency (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) |
|-----------------|--------------|-----------------|
| 5775            | 75.07        | 18.755          |

802.11ac \_VHT80\_Main

| Frequency (MHz) | Measured Frequency (MHz) | Limit (MHz) |
|-----------------|--------------------------|-------------|
| 5210            | 5247.80                  | < 5250      |
| 5775            | 5736.97                  | > 5725      |

802.11n \_HT80\_Aux1

| Frequency (MHz) | Measured Frequency (MHz) | Limit (MHz) |
|-----------------|--------------------------|-------------|
| 5210            | 5248.97                  | < 5250      |
| 5775            | 5737.27                  | > 5725      |

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## 99% Bandwidth

802.11a\_Main

| Frequency (MHz) | 99% BW (MHz) | 10 Log (B) (dB) | Frequency (MHz) | 99% BW (MHz) | 10 Log (B) (dB) |
|-----------------|--------------|-----------------|-----------------|--------------|-----------------|
| 5180            | 16.627       | 12.208          | 5180            | 16.668       | 12.219          |
| 5220            | 16.620       | 12.206          | 5220            | 16.627       | 12.208          |
| 5240            | 16.652       | 12.215          | 5240            | 16.681       | 12.222          |
| 5260            | 16.662       | 12.217          | 5260            | 16.655       | 12.215          |
| 5300            | 16.624       | 12.207          | 5300            | 16.645       | 12.213          |
| 5320            | 16.658       | 12.216          | 5320            | 16.662       | 12.217          |
| 5500            | 16.596       | 12.200          | 5500            | 16.668       | 12.219          |
| 5580            | 16.663       | 12.218          | 5580            | 16.607       | 12.203          |
| 5700            | 16.634       | 12.210          | 5700            | 16.628       | 12.208          |

802.11a\_Aux1

802.11a\_Main

| Frequency (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) | Frequency (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) |
|-----------------|--------------|-----------------|-----------------|--------------|-----------------|
| 5745            | 16.65        | 12.214          | 5745            | 16.62        | 12.207          |
| 5785            | 16.65        | 12.214          | 5785            | 16.60        | 12.201          |
| 5825            | 16.59        | 12.199          | 5825            | 16.59        | 12.198          |

802.11a\_Aux1

802.11n\_HT20\_Main

| Frequency (MHz) | 99% BW (MHz) | 10 Log (B) (dB) | Frequency (MHz) | 99% BW (MHz) | 10 Log (B) (dB) |
|-----------------|--------------|-----------------|-----------------|--------------|-----------------|
| 5180            | 17.754       | 12.493          | 5180            | 17.786       | 12.501          |
| 5220            | 17.807       | 12.506          | 5220            | 17.799       | 12.504          |
| 5240            | 17.812       | 12.507          | 5240            | 17.871       | 12.521          |
| 5260            | 17.823       | 12.510          | 5260            | 17.790       | 12.502          |
| 5300            | 17.819       | 12.509          | 5300            | 17.838       | 12.513          |
| 5320            | 17.742       | 12.490          | 5320            | 17.852       | 12.517          |
| 5500            | 17.779       | 12.499          | 5500            | 17.799       | 12.504          |
| 5580            | 17.761       | 12.495          | 5580            | 17.813       | 12.507          |
| 5700            | 17.771       | 12.497          | 5700            | 17.787       | 12.501          |

802.11n\_HT20\_Aux1

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802.11n\_HT20\_Main

| Frequency (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) |
|-----------------|--------------|-----------------|
| 5745            | 17.74        | 12.490          |
| 5785            | 17.81        | 12.506          |
| 5825            | 17.77        | 12.497          |

802.11n\_HT20\_Aux1

| Frequency (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) |
|-----------------|--------------|-----------------|
| 5745            | 17.76        | 12.494          |
| 5785            | 17.77        | 12.496          |
| 5825            | 17.78        | 12.499          |

802.11n\_HT40\_Main

| Frequency (MHz) | 99% BW (MHz) | 10 Log (B) (dB) |
|-----------------|--------------|-----------------|
| 5190            | 36.096       | 15.575          |
| 5230            | 36.129       | 15.579          |
| 5270            | 36.089       | 15.574          |
| 5310            | 36.133       | 15.579          |
| 5510            | 36.108       | 15.576          |
| 5550            | 36.080       | 15.573          |
| 5670            | 36.048       | 15.569          |

802.11n\_HT40\_Aux1

| Frequency (MHz) | 99% BW (MHz) | 10 Log (B) (dB) |
|-----------------|--------------|-----------------|
| 5190            | 36.099       | 15.575          |
| 5230            | 36.110       | 15.576          |
| 5270            | 36.142       | 15.580          |
| 5310            | 36.135       | 15.579          |
| 5510            | 36.151       | 15.581          |
| 5550            | 36.133       | 15.579          |
| 5670            | 36.116       | 15.577          |

802.11n\_HT40\_Main

| Frequency (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) |
|-----------------|--------------|-----------------|
| 5755            | 36.10        | 15.574          |
| 5795            | 36.10        | 15.575          |

802.11n\_HT40\_Aux1

| Frequency (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) |
|-----------------|--------------|-----------------|
| 5755            | 36.13        | 15.578          |
| 5795            | 36.11        | 15.576          |

802.11ac\_VHT80\_Main

| Frequency (MHz) | 99% BW (MHz) | 10 Log (B) (dB) |
|-----------------|--------------|-----------------|
| 5210            | 75.510       | 18.780          |
| 5290            | 75.488       | 18.779          |
| 5530            | 75.650       | 18.788          |

802.11ac\_VHT80\_Aux1

| Frequency (MHz) | 99% BW (MHz) | 10 Log (B) (dB) |
|-----------------|--------------|-----------------|
| 5210            | 75.527       | 18.781          |
| 5290            | 75.532       | 18.781          |
| 5530            | 75.507       | 18.780          |

802.11ac\_VHT80\_Main

| Frequency (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) |
|-----------------|--------------|-----------------|
| 5775            | 75.68        | 18.790          |

802.11ac\_VHT80\_Aux1

| Frequency (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) |
|-----------------|--------------|-----------------|
| 5775            | 75.60        | 18.785          |

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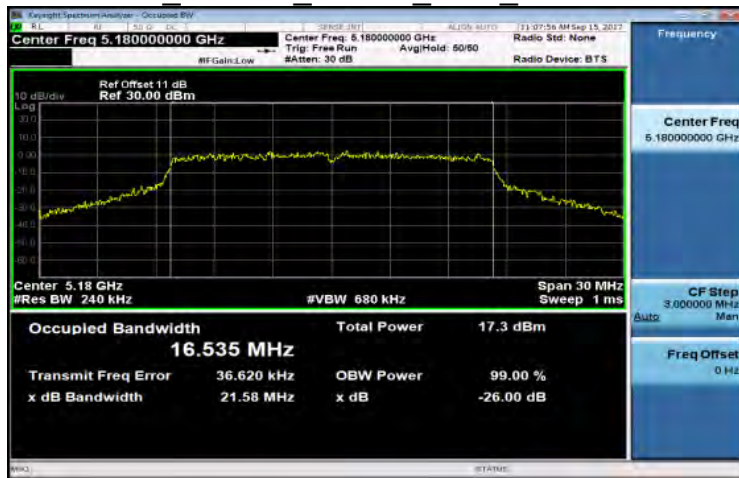
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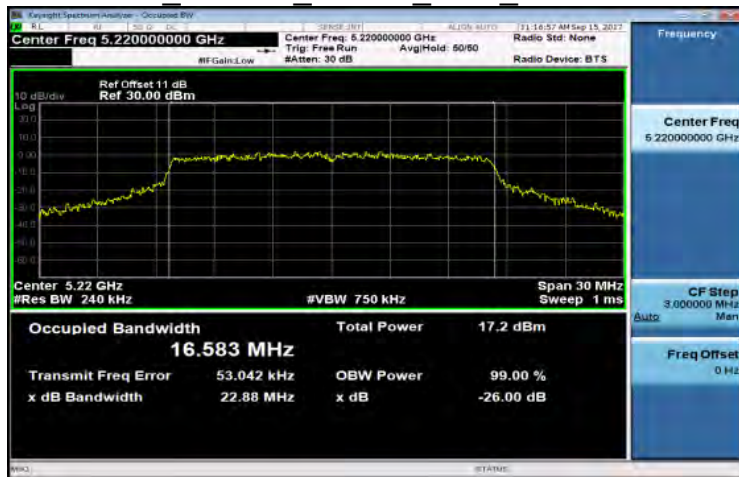
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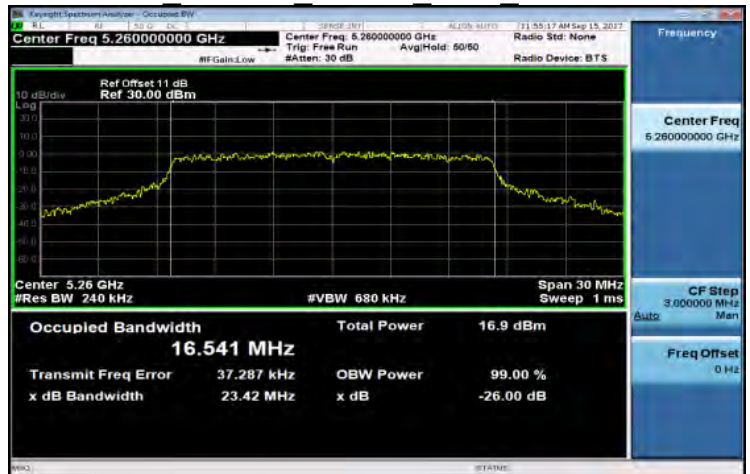
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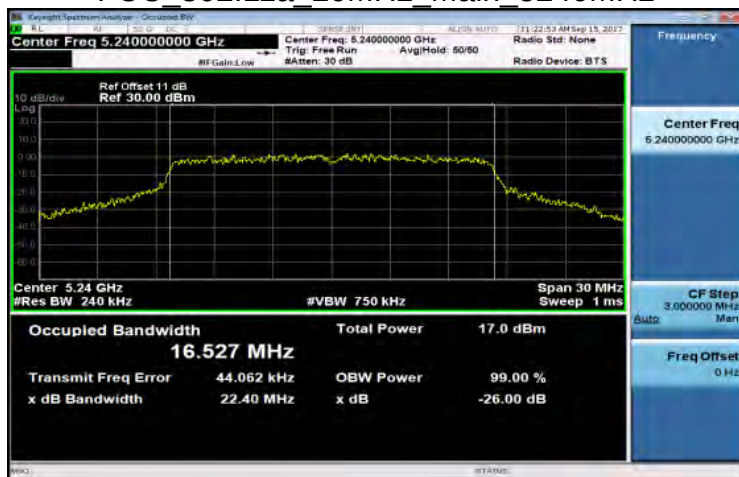
FCC 802.11a 20MHz Main 5220MHz



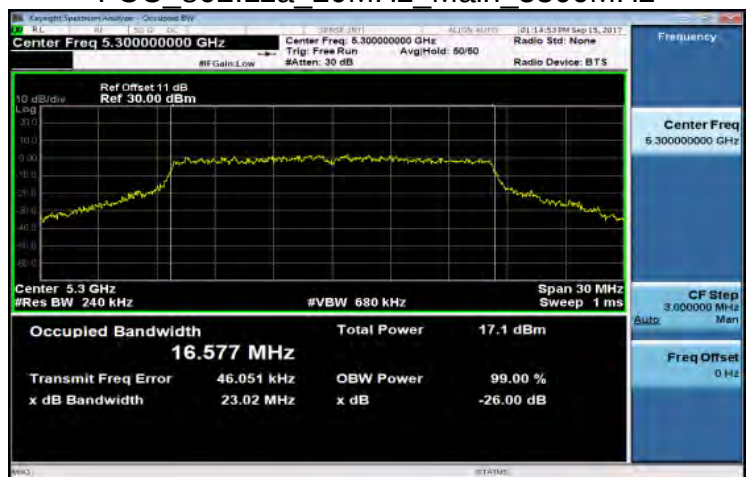
FCC 802.11a 20MHz Main 5260MHz



FCC 802.11a 20MHz Main 5240MHz



FCC 802.11a 20MHz Main 5300MHz



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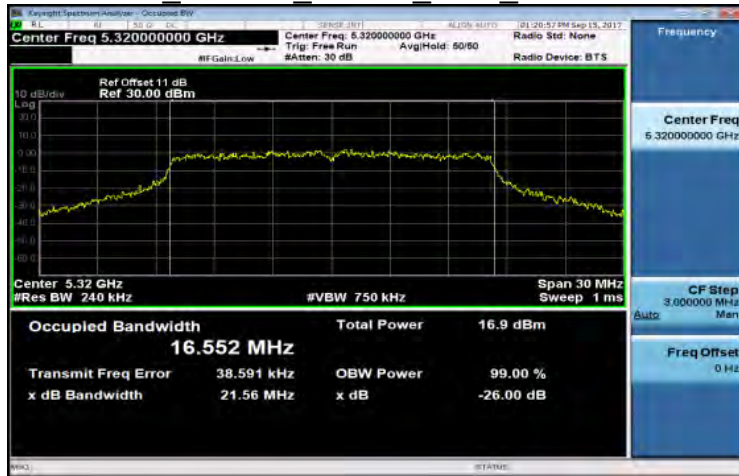
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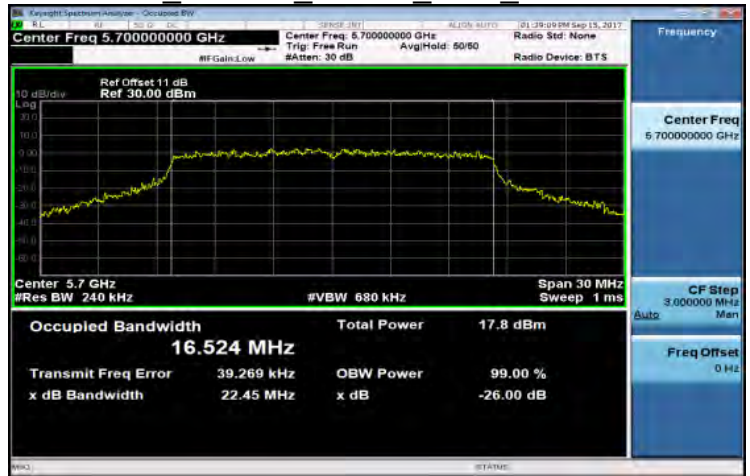
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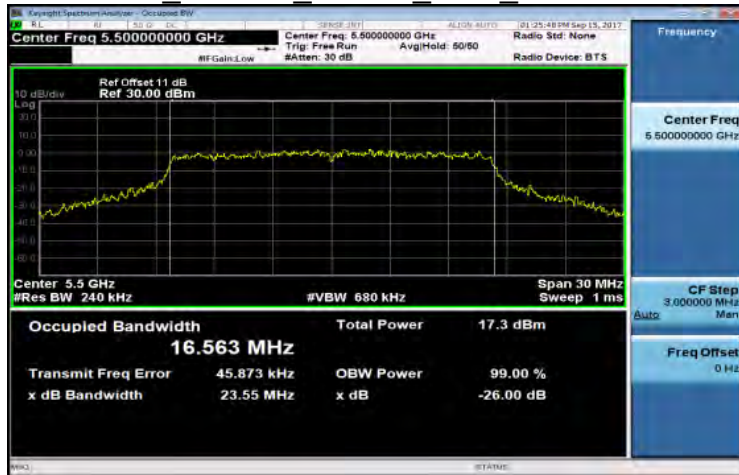
FCC 802.11a 20MHz Main 5320MHz



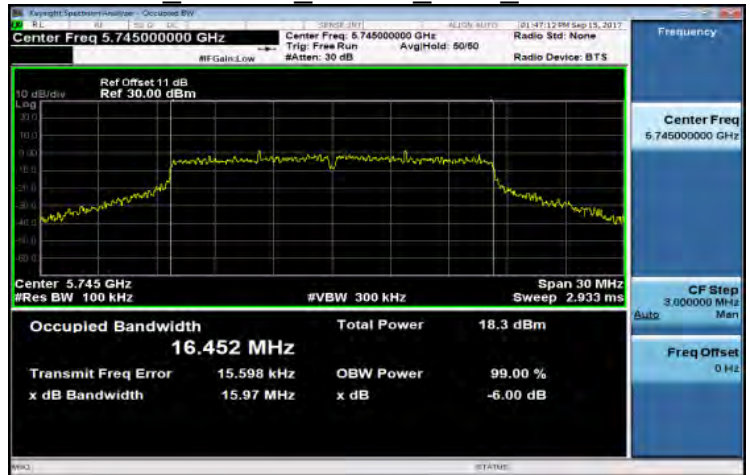
FCC 802.11a 20MHz Main 5700MHz



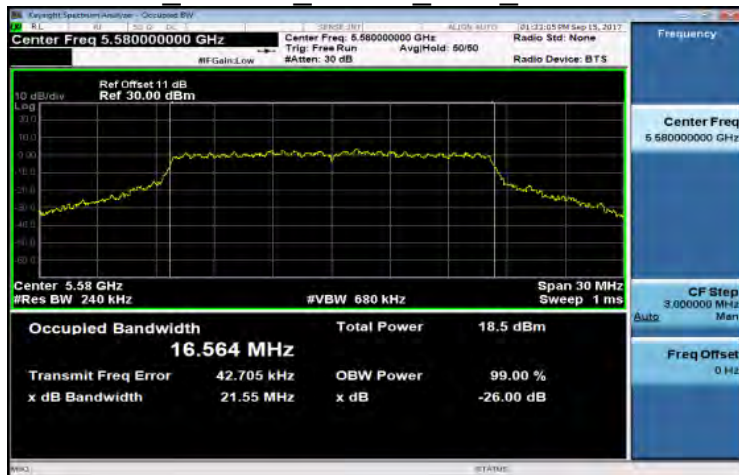
FCC 802.11a 20MHz Main 5500MHz



FCC 802.11a 20MHz Main 5745MHz



FCC 802.11a 20MHz Main 5580MHz



FCC 802.11a 20MHz Main 5745MHz



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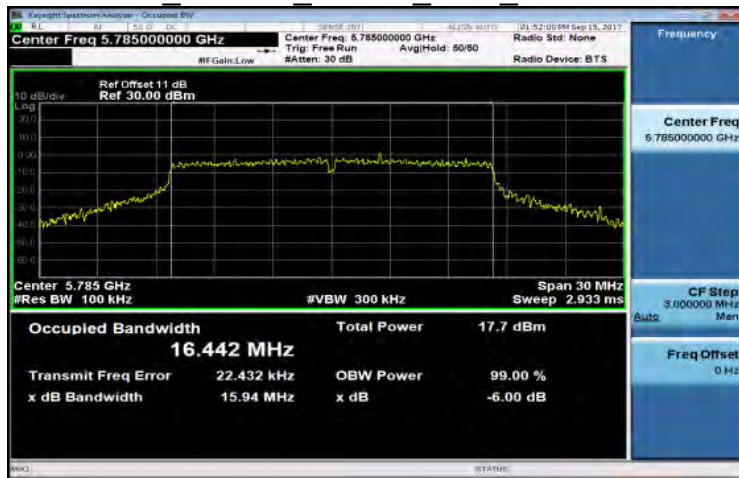
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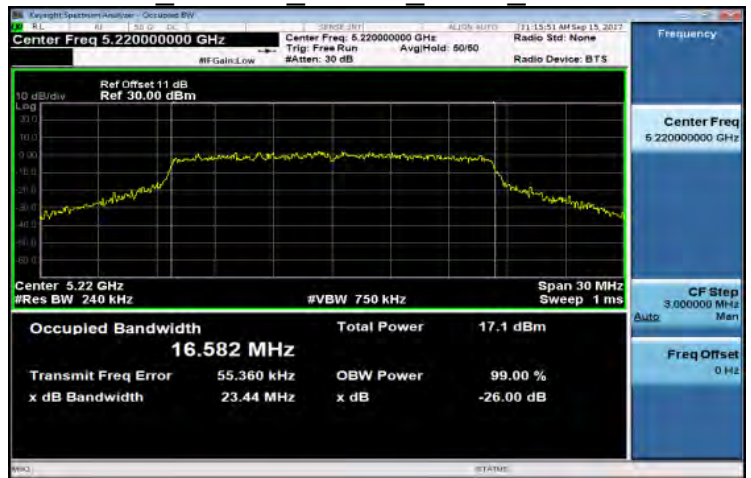
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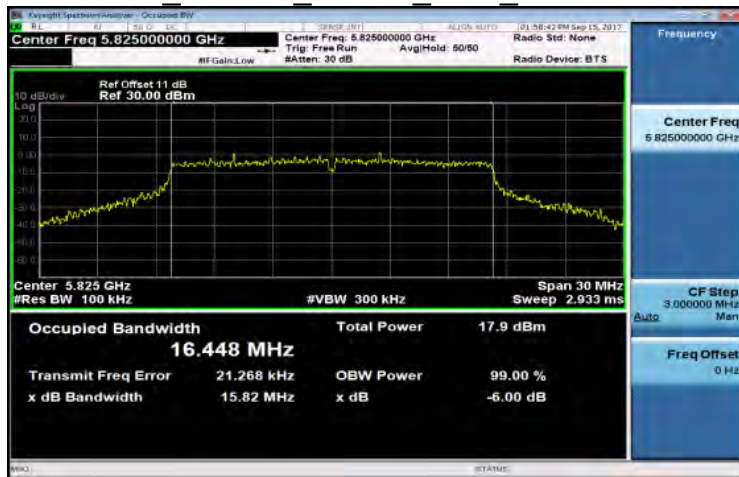
FCC 802.11a 20MHz Main 5785MHz



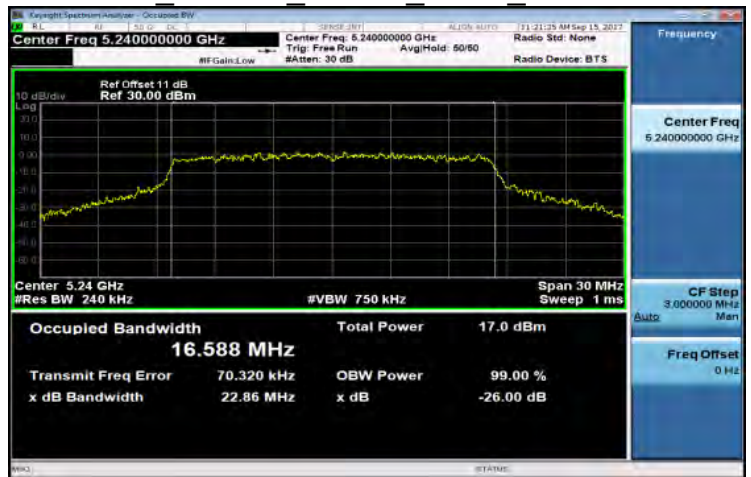
FCC 802.11a 20MHz AUX1 5220MHz



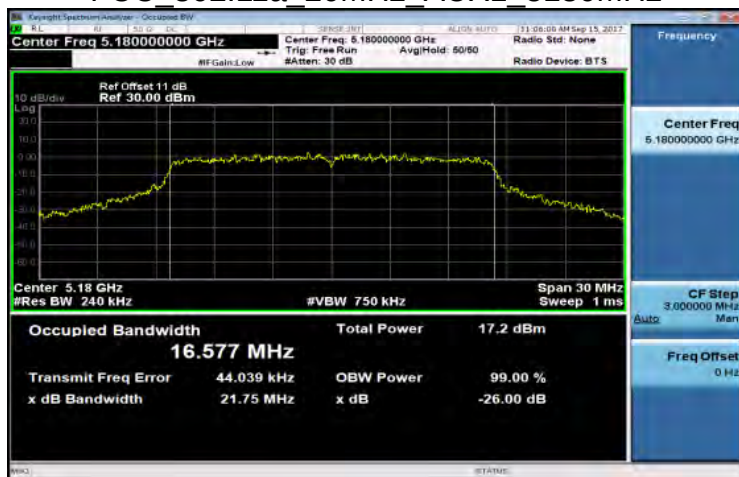
FCC 802.11a 20MHz Main 5825MHz



FCC 802.11a 20MHz AUX1 5240MHz



FCC 802.11a 20MHz AUX1 5180MHz



FCC 802.11a 20MHz AUX1 5240MHz



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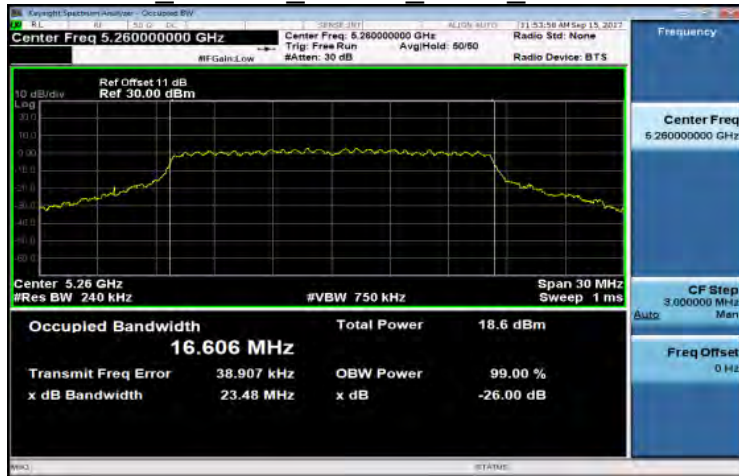
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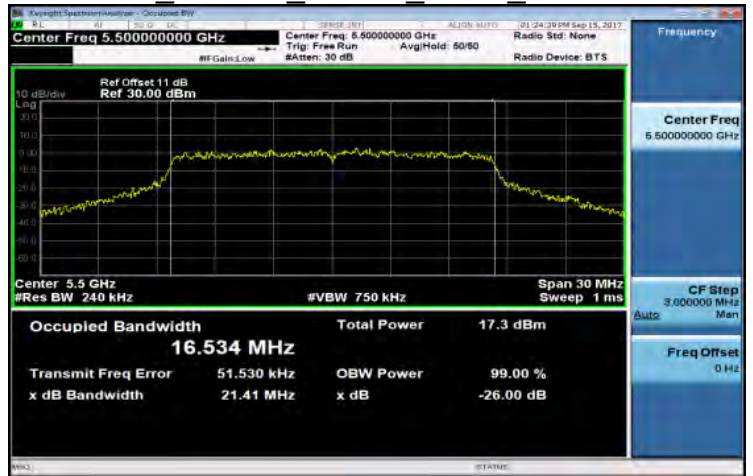
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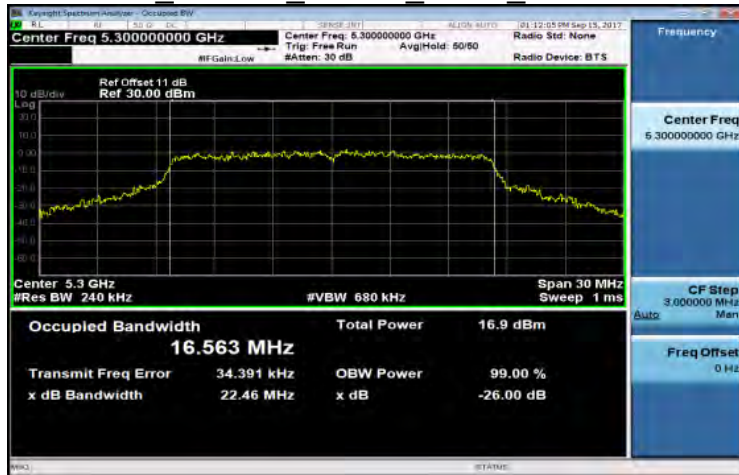
FCC 802.11a 20MHz AUX1 5260MHz



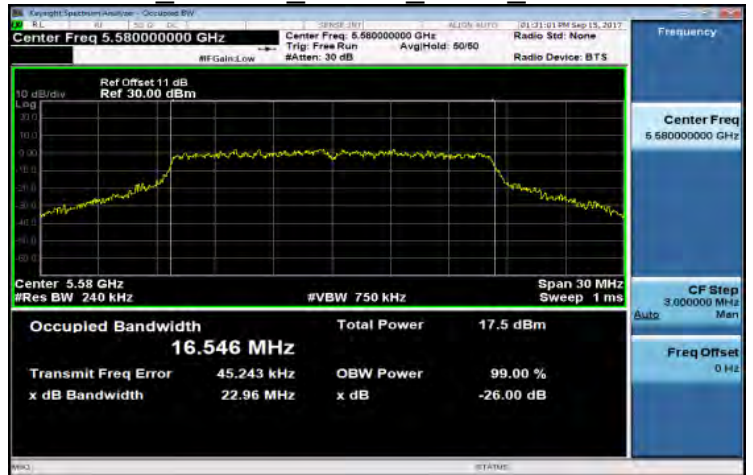
FCC 802.11a 20MHz AUX1 5500MHz



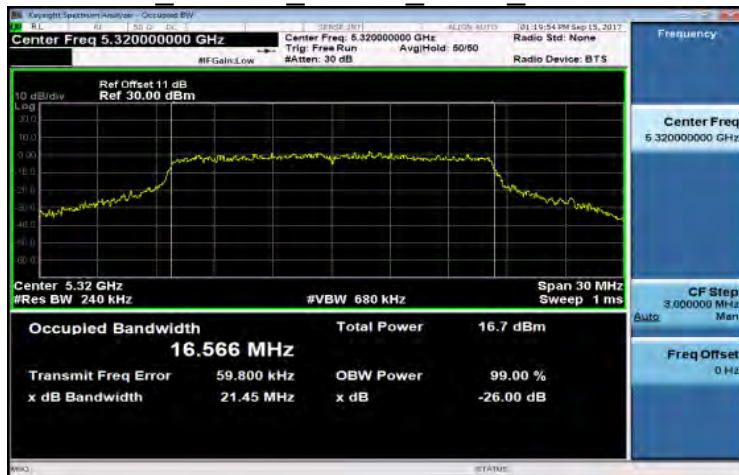
FCC 802.11a 20MHz AUX1 5300MHz



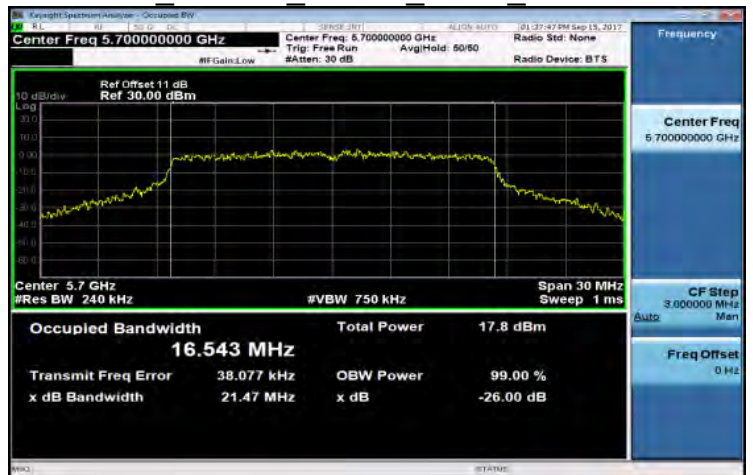
FCC 802.11a 20MHz AUX1 5580MHz



FCC 802.11a 20MHz AUX1 5320MHz



FCC 802.11a 20MHz AUX1 5700MHz



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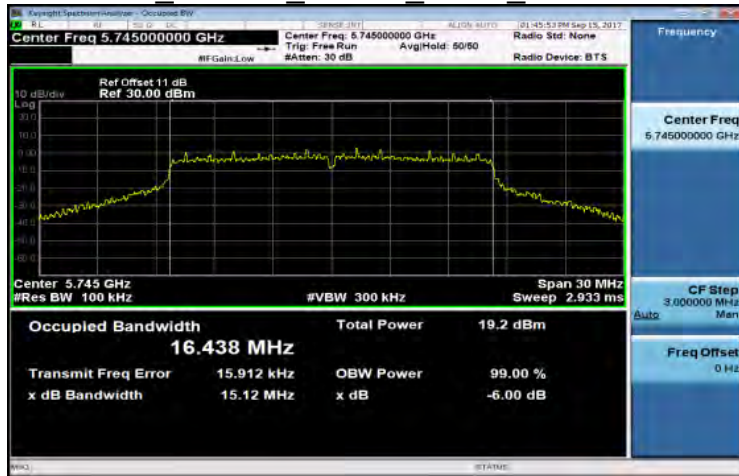
t (886-2) 2299-3279

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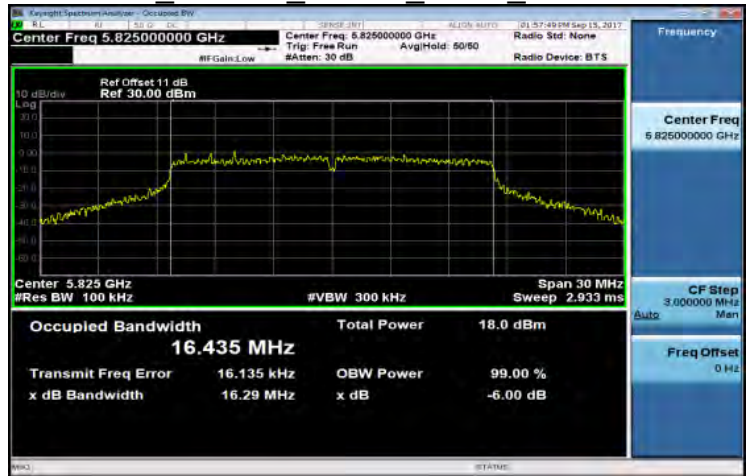
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FCC 802.11a 20MHz\_AUX1\_5745MHz



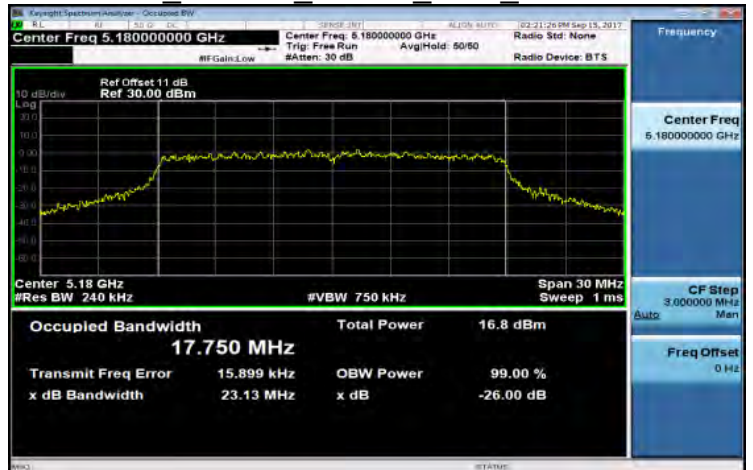
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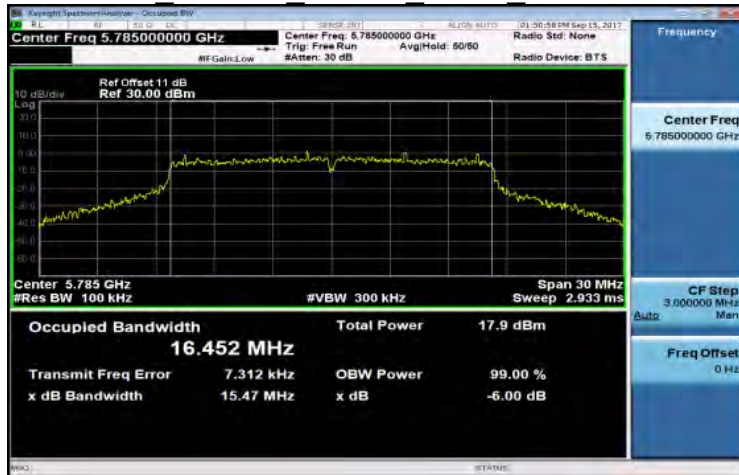
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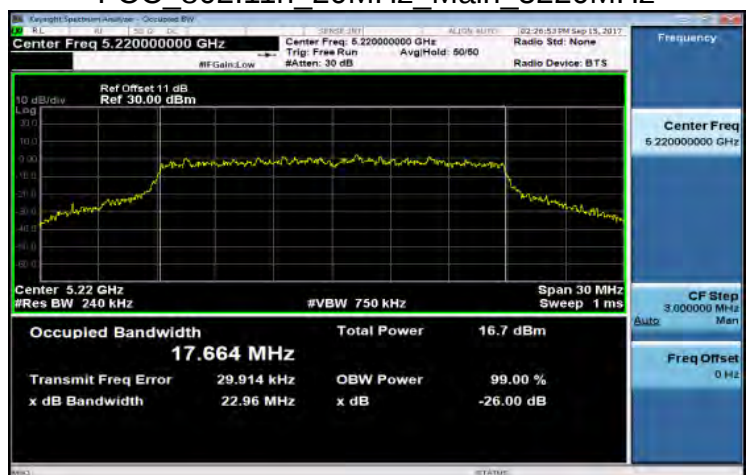
FCC 802.11n 20MHz\_Main\_5180MHz



FCC 802.11a 20MHz\_AUX1\_5785MHz



FCC 802.11n 20MHz\_Main\_5220MHz



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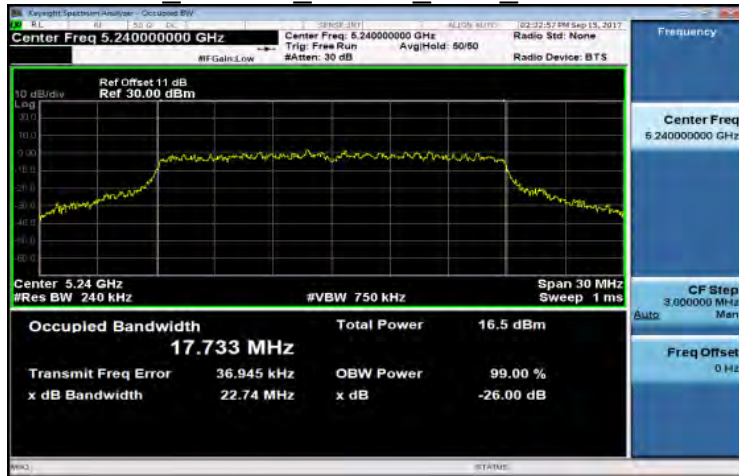
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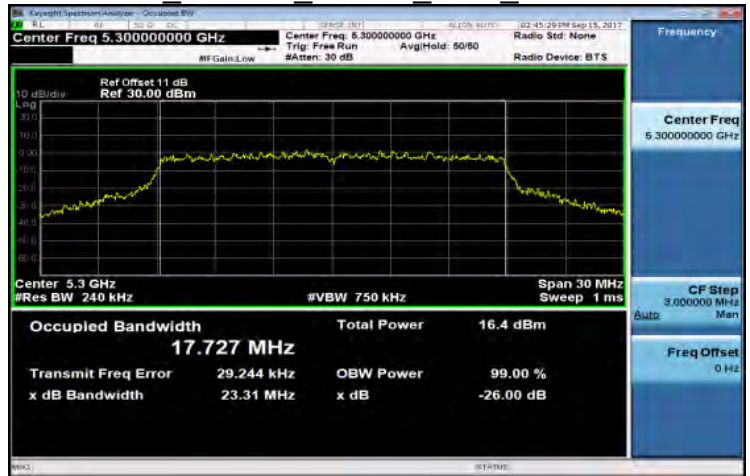
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FCC 802.11n 20MHz Main 5240MHz



FCC 802.11n 20MHz Main 5300MHz



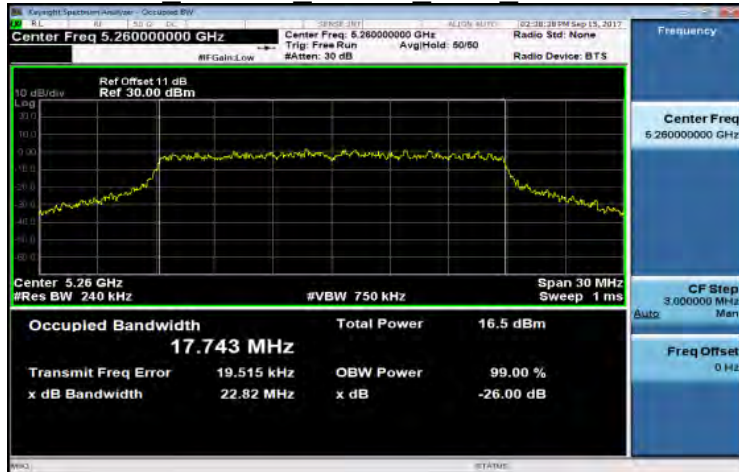
FCC 802.11n 20MHz Main 5240MHz



FCC 802.11n 20MHz Main 5320MHz



FCC 802.11n 20MHz Main 5260MHz



FCC 802.11n 20MHz Main 5500MHz



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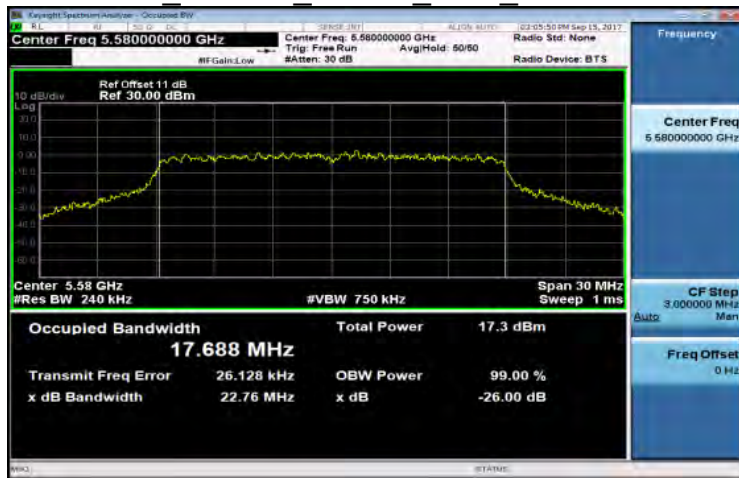
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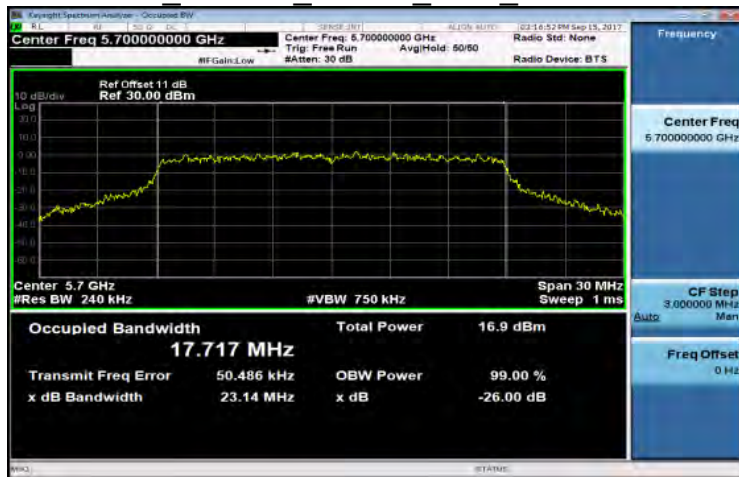
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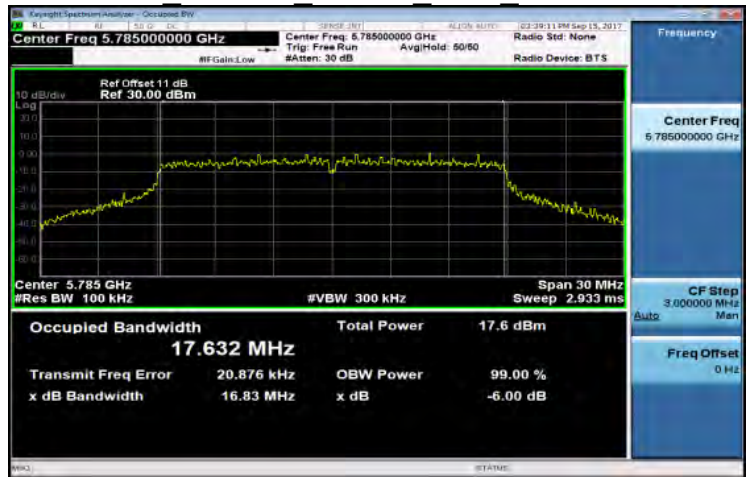
FCC 802.11n 20MHz Main 5745MHz



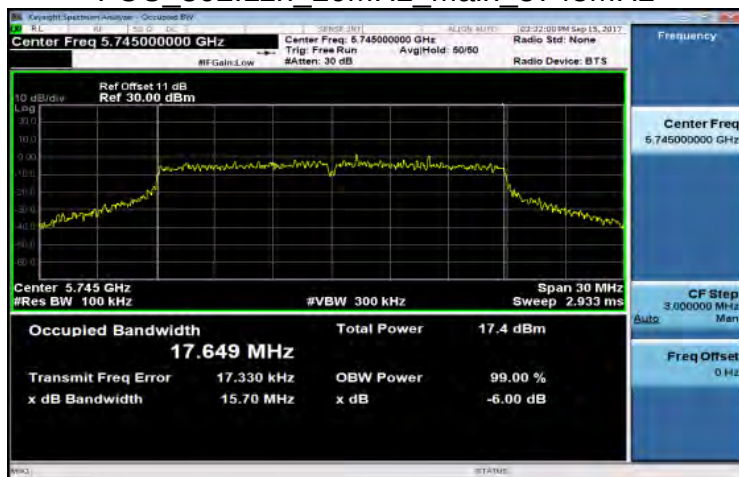
FCC 802.11n 20MHz Main 5700MHz



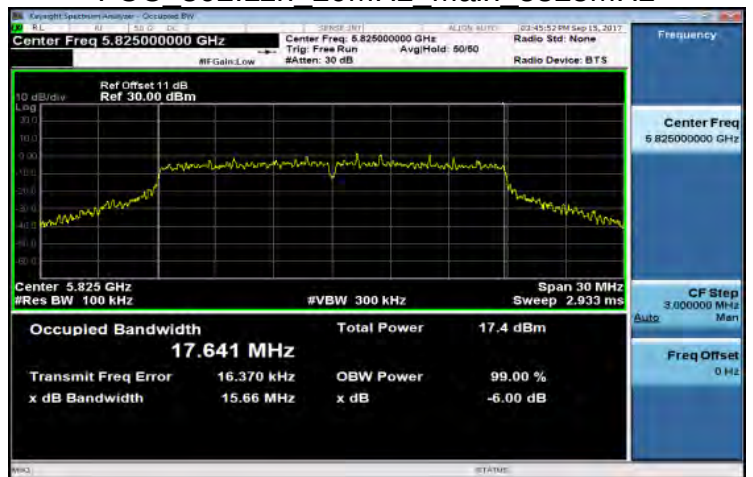
FCC 802.11n 20MHz Main 5785MHz



FCC 802.11n 20MHz Main 5745MHz



FCC 802.11n 20MHz Main 5825MHz



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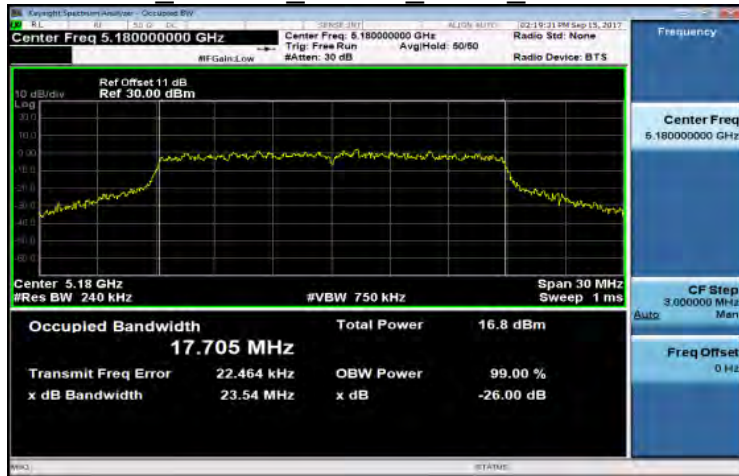
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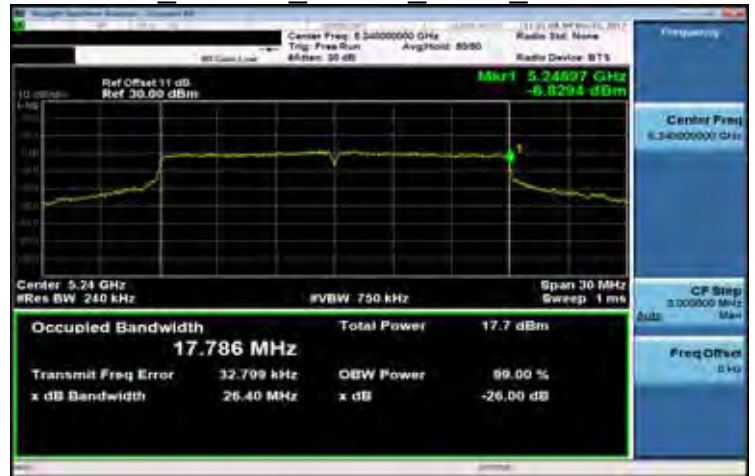
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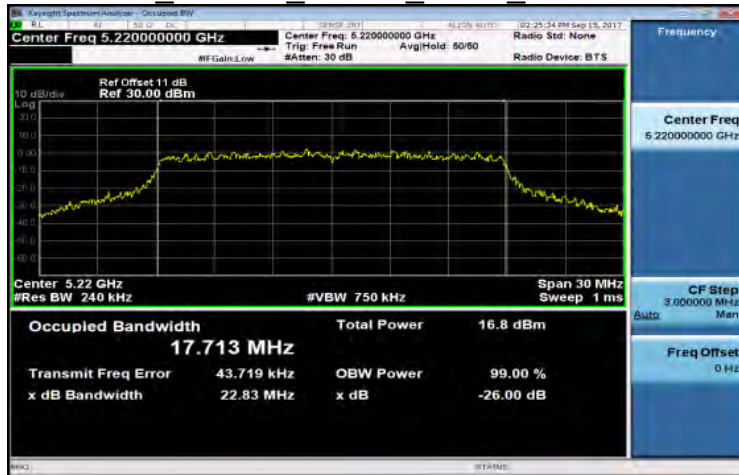
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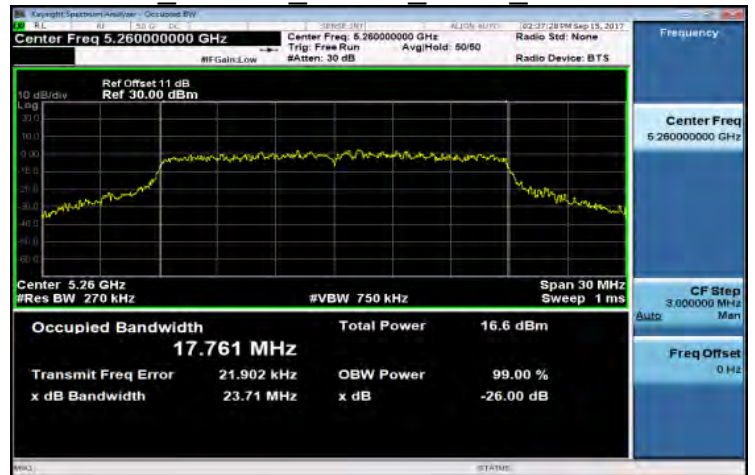
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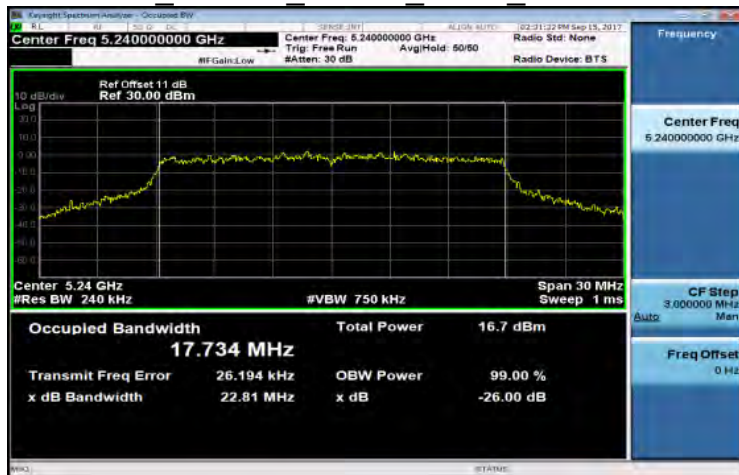
FCC 802.11n 20MHz AUX1 5220MHz



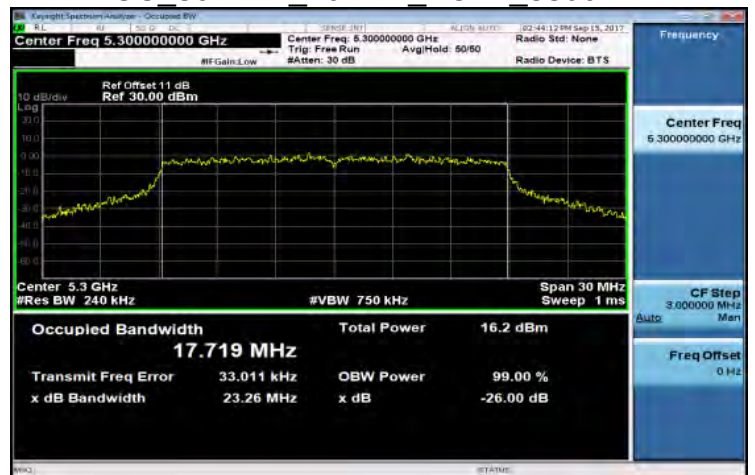
FCC 802.11n 20MHz AUX1 5260MHz



FCC 802.11n 20MHz AUX1 5240MHz



FCC 802.11n 20MHz AUX1 5300MHz



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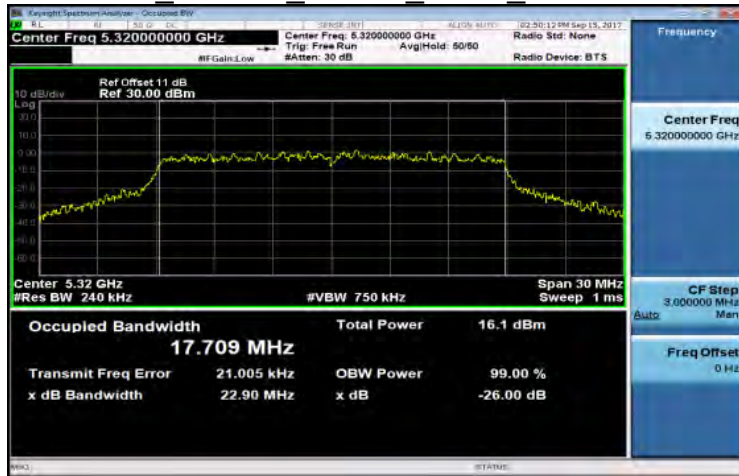
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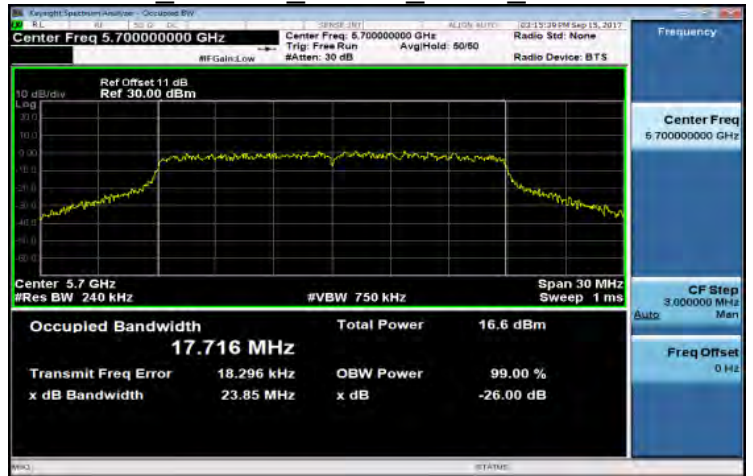
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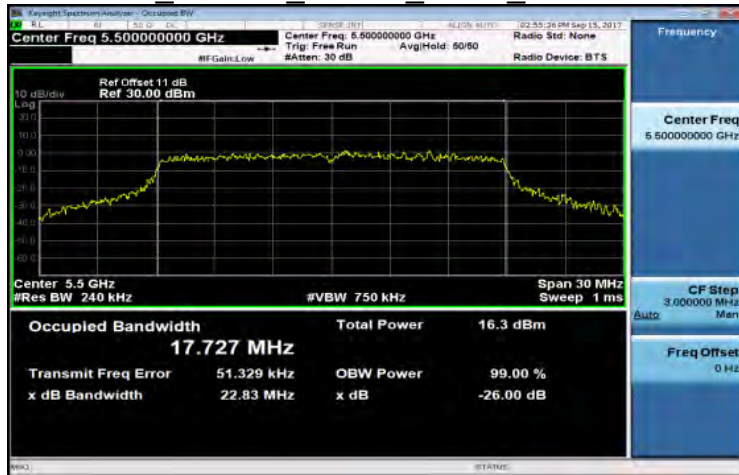
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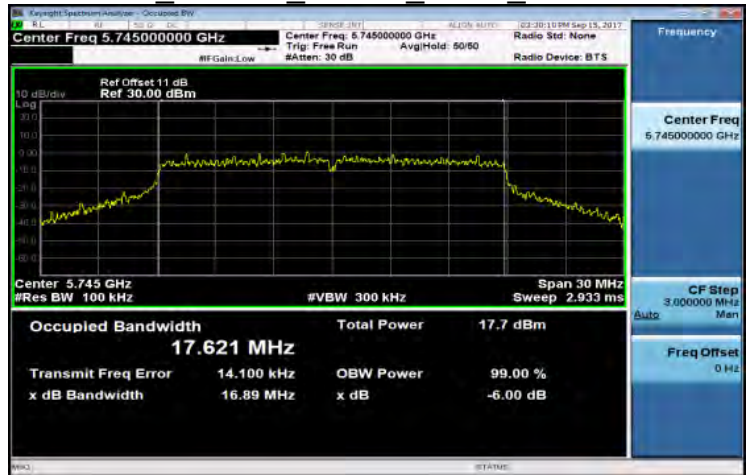
FCC 802.11n 20MHz AUX1 5700MHz



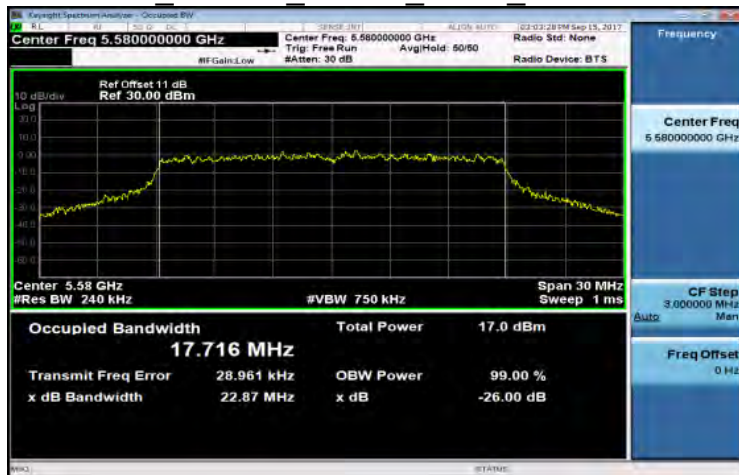
FCC 802.11n 20MHz AUX1 5500MHz



FCC 802.11n 20MHz AUX1 5745MHz



FCC 802.11n 20MHz AUX1 5580MHz



FCC 802.11n 20MHz AUX1 5745MHz



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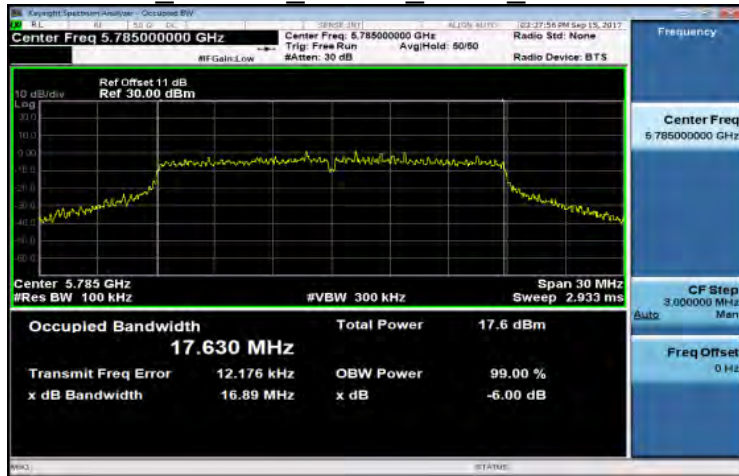
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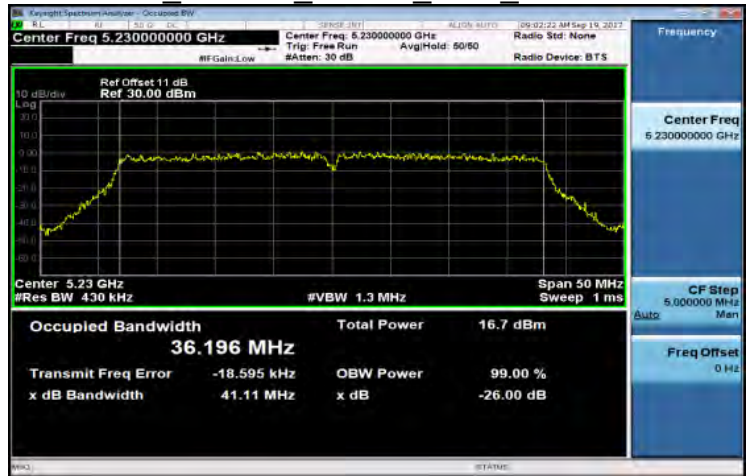
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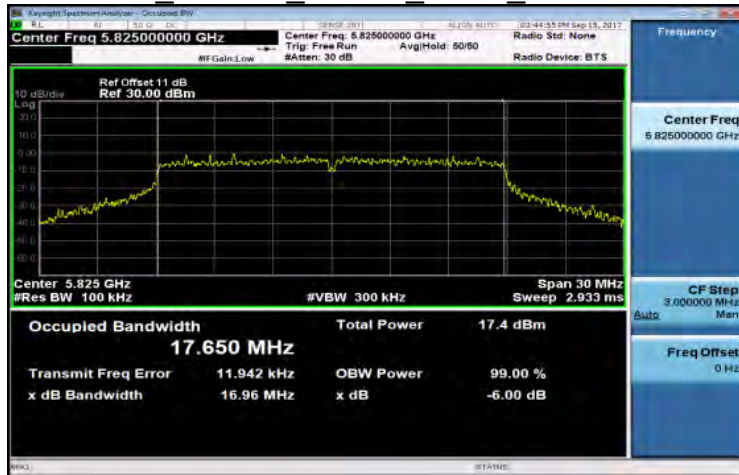
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FCC 802.11n 40MHz\_Main\_5230MHz



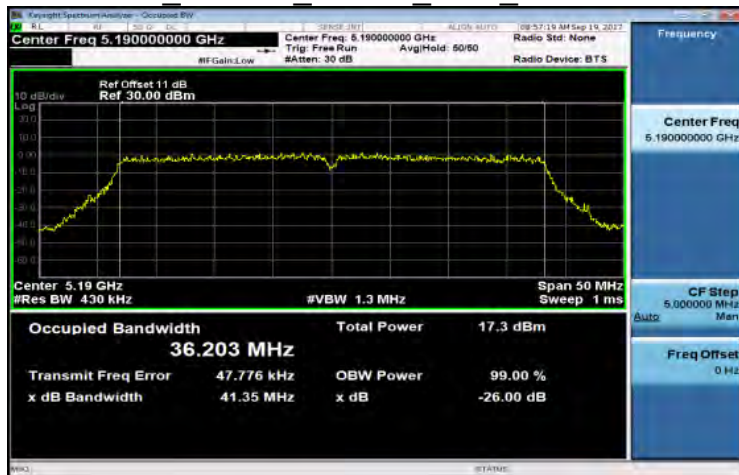
FCC 802.11n 20MHz\_AUX1\_5825MHz



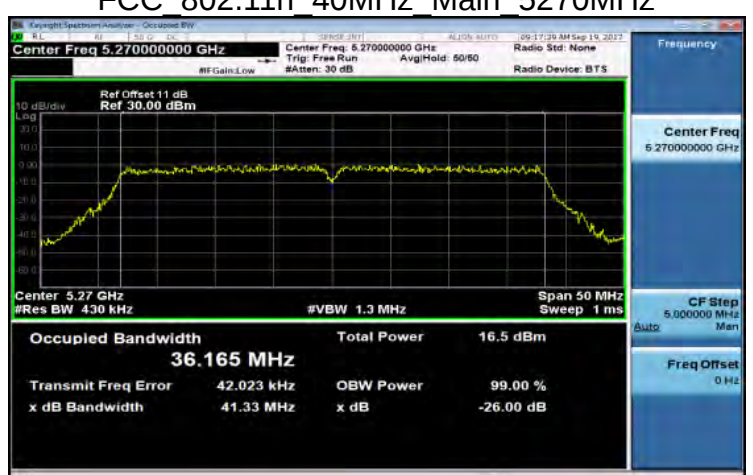
FCC 802.11n 40MHz\_Main\_5230MHz



FCC 802.11n 40MHz\_Main\_5190MHz



FCC 802.11n 40MHz\_Main\_5270MHz



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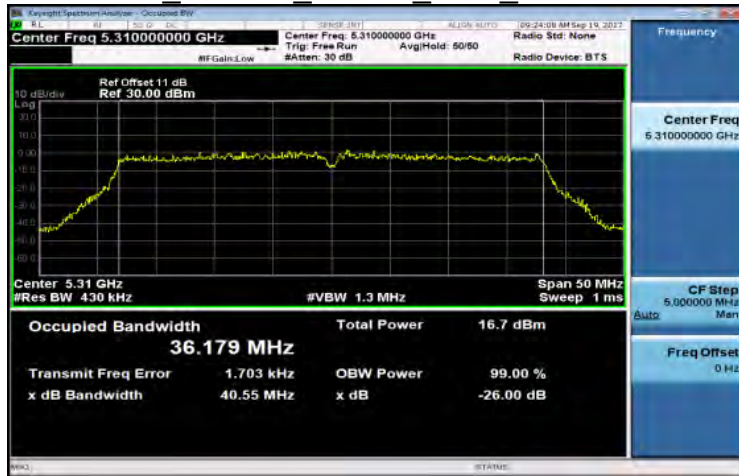
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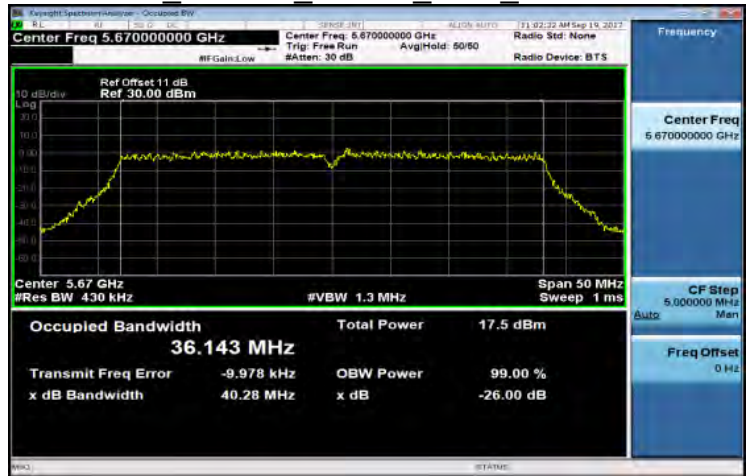
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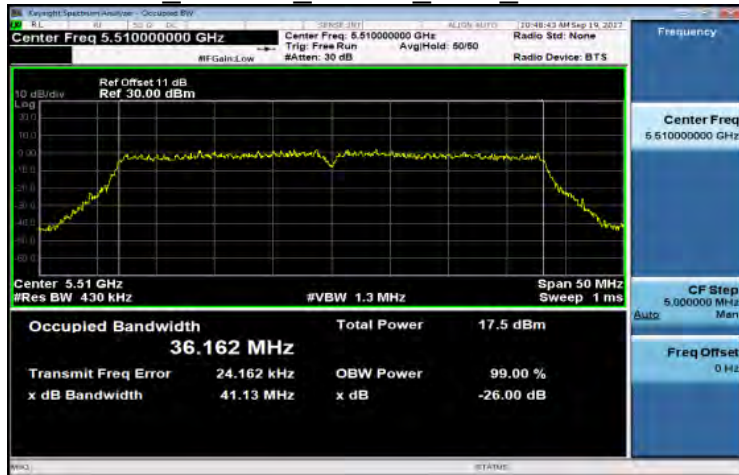
FCC 802.11n 40MHz Main 5310MHz



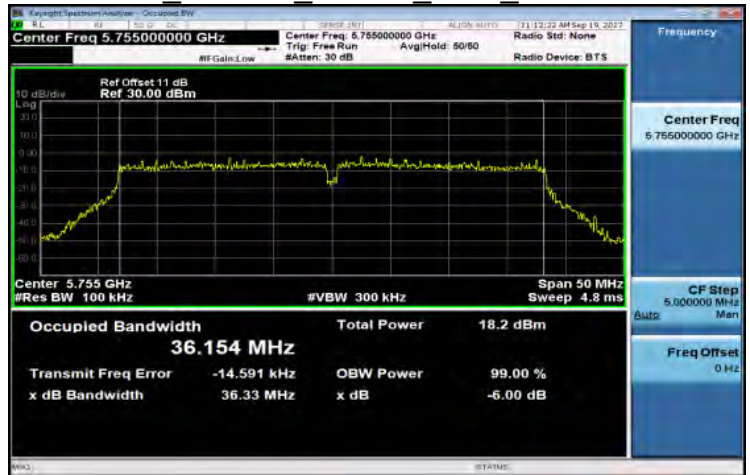
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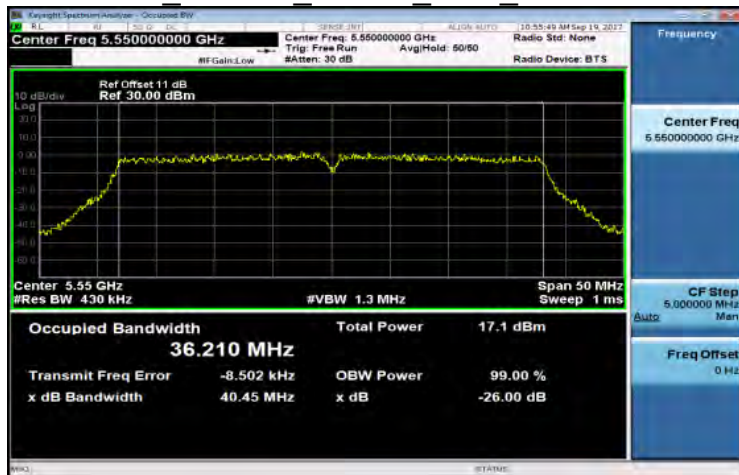
FCC 802.11n 40MHz Main 5510MHz



FCC 802.11n 40MHz Main 5755MHz



FCC 802.11n 40MHz Main 5550MHz



FCC 802.11n 40MHz Main 5755MHz



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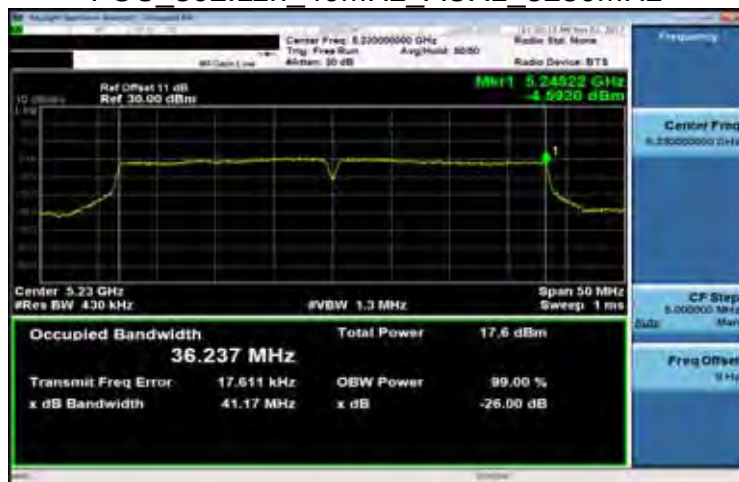
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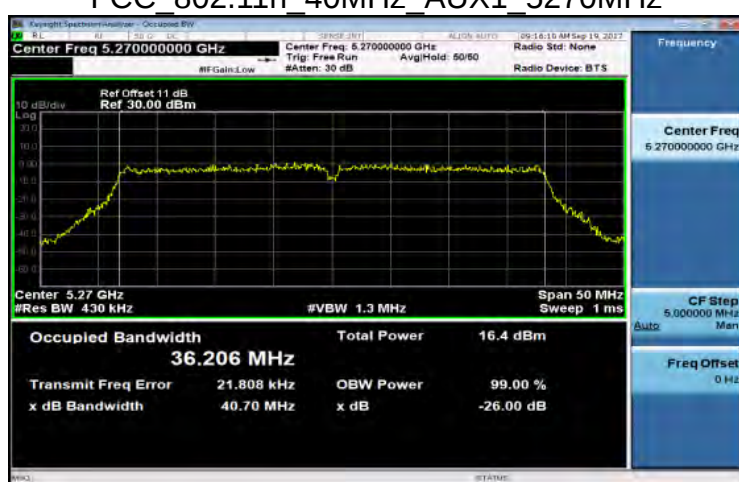
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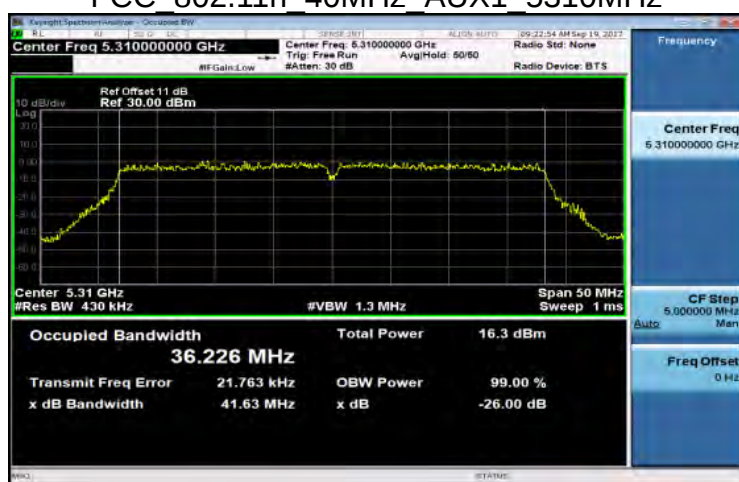
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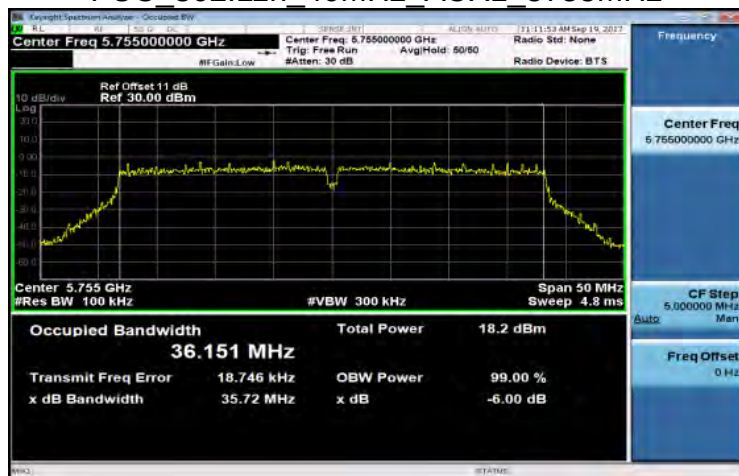
FCC 802.11n 40MHz AUX1 5310MHz



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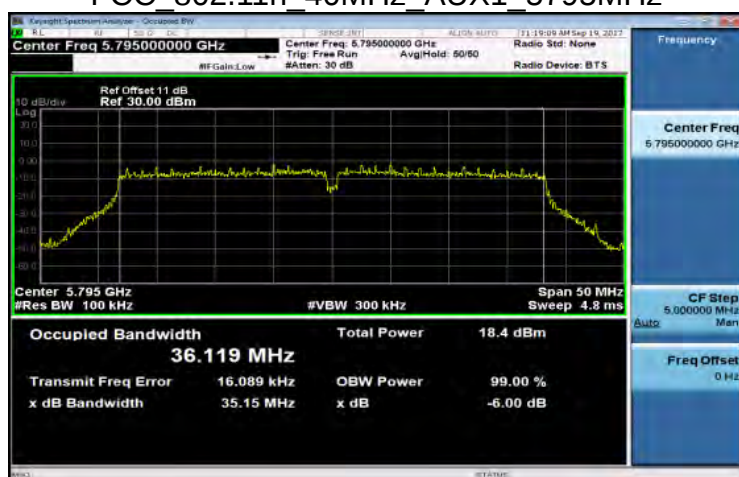
FCC 802.11n 40MHz AUX1 5755MHz



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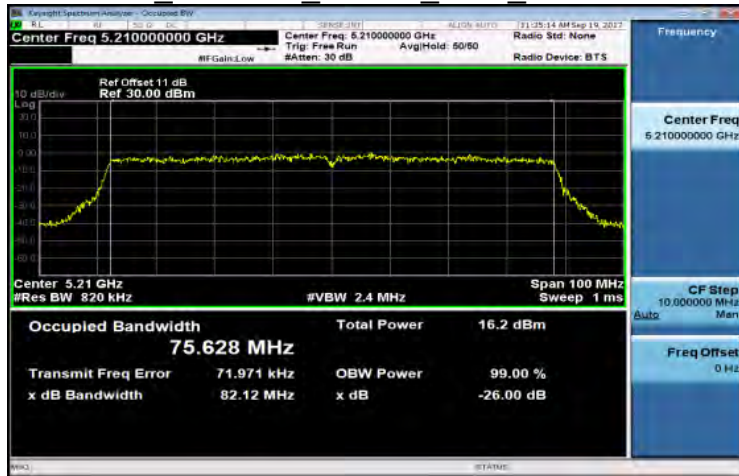
FCC 802.11n 40MHz AUX1 5795MHz



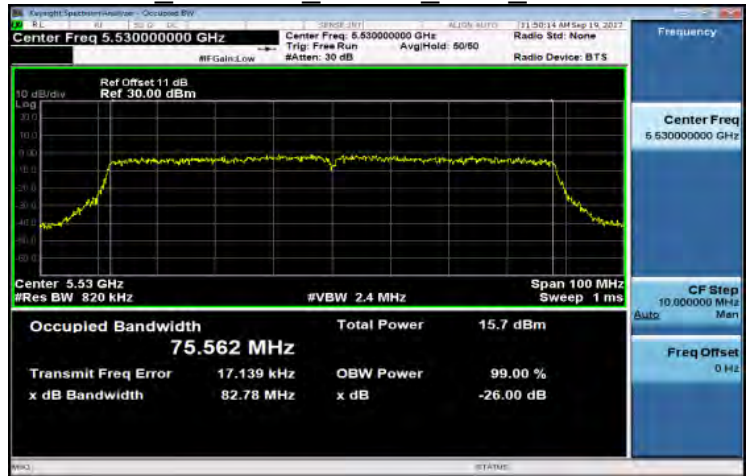
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FCC 802.11ac 80MHz Main 5210MHz



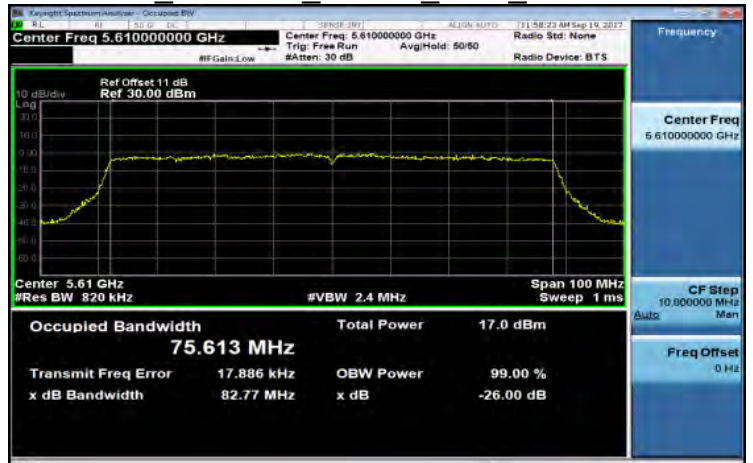
FCC 802.11ac 80MHz Main 5530MHz



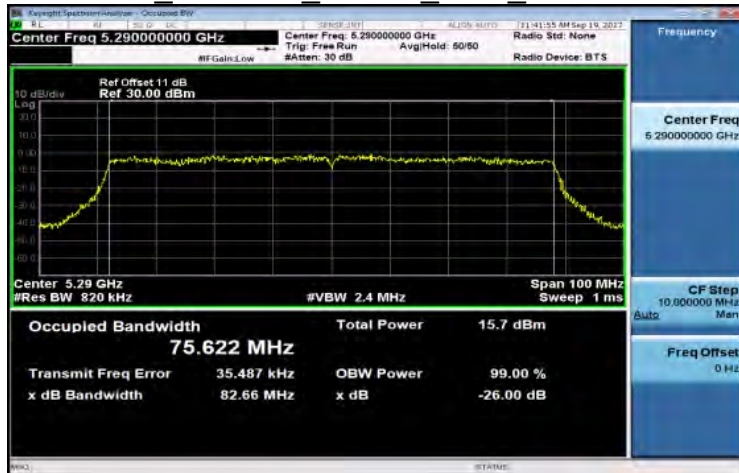
FCC 802.11ac 80MHz Main 5210MHz



FCC 802.11ac 80MHz Main 5610MHz



FCC 802.11ac 80MHz Main 5290MHz



FCC 802.11ac 80MHz Main 5690MHz



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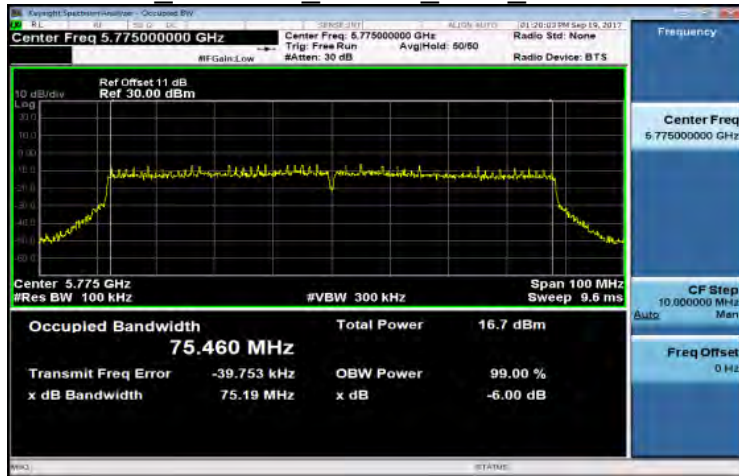
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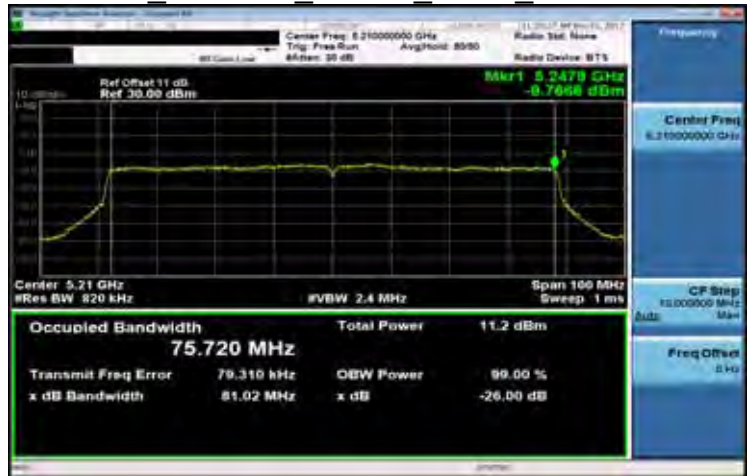
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FCC 802.11ac 80MHz Main 5775MHz



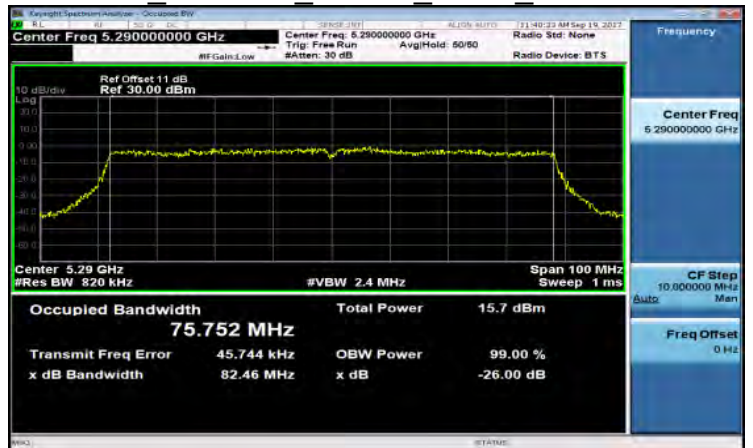
FCC 802.11ac 80MHz AUX1 5210MHz



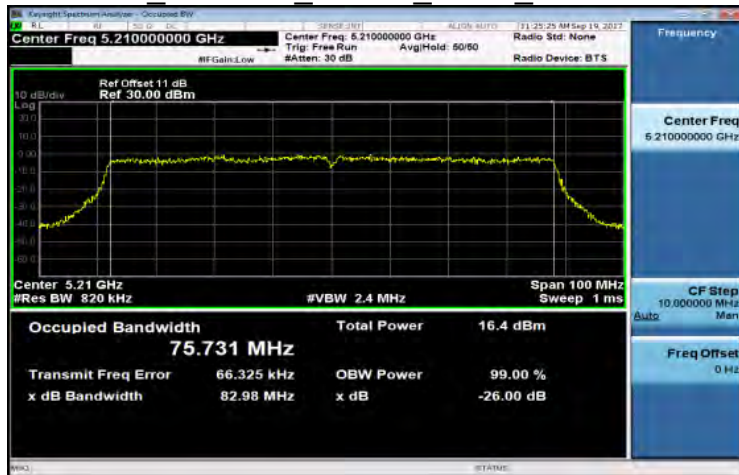
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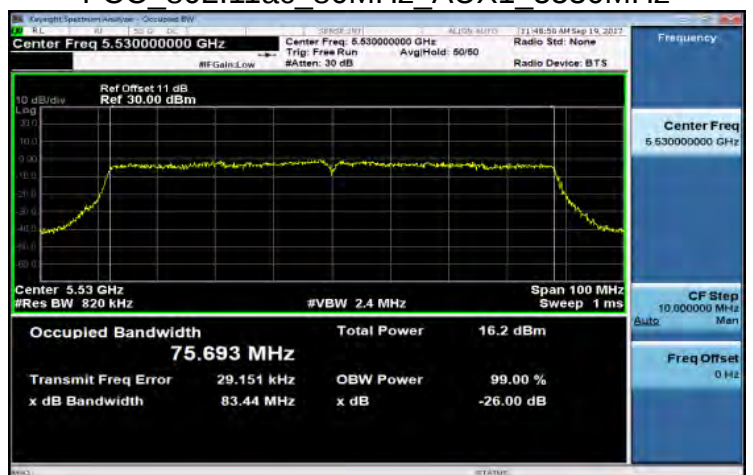
FCC 802.11ac 80MHz AUX1 5290MHz



FCC 802.11ac 80MHz AUX1 5210MHz



FCC 802.11ac 80MHz AUX1 5530MHz



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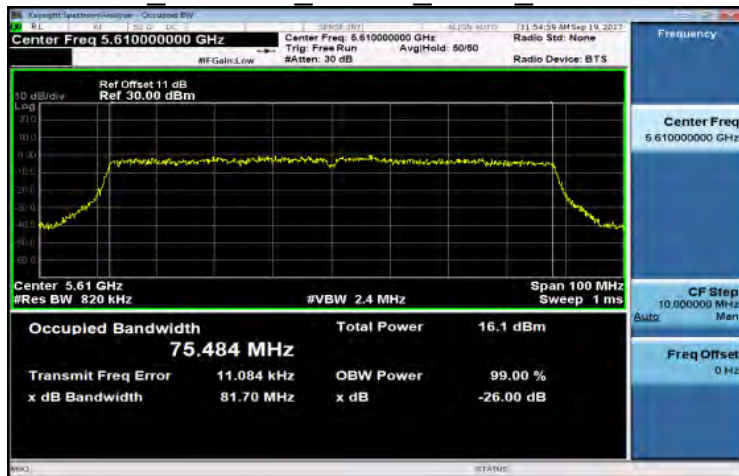
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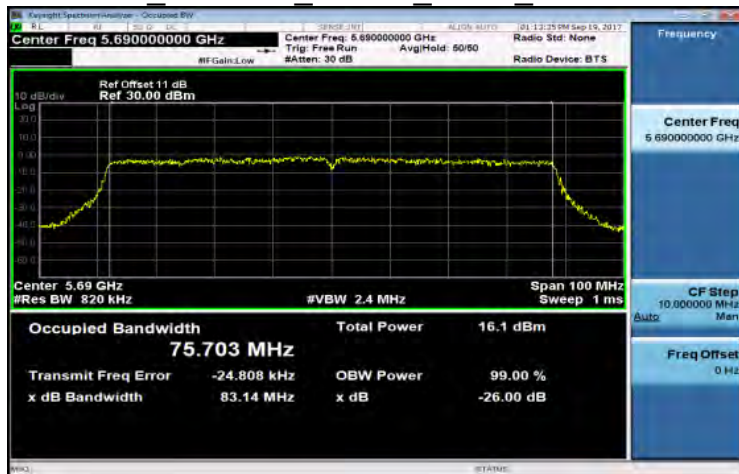
FCC 802.11ac 80MHz AUX1 5610MHz



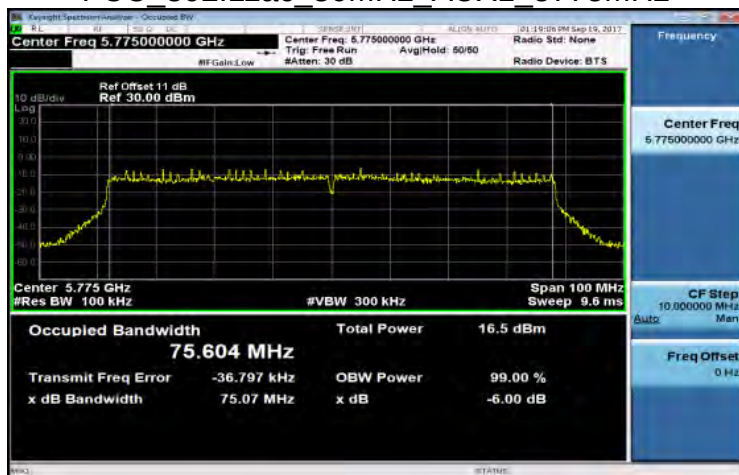
FCC 802.11ac 80MHz AUX1 5775MHz



FCC 802.11ac 80MHz AUX1 5690MHz



FCC 802.11ac 80MHz AUX1 5775MHz



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## 9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

### 9.1 Standard Applicable

#### FCC

| OPERZTION Band | EUT CATEGORY |                                   | LIMIT                             |
|----------------|--------------|-----------------------------------|-----------------------------------|
| U-NII-1        |              | Access Point (Mater device )      | 1 Watt(30dBm)                     |
|                |              | Fixed point-to-point Acss Ponit   | 1 Watt(30dBm)                     |
|                | ✓            | Mobile and portable clinet device | 250mW(23.98dBm)                   |
| U-NII-2A       | ✓            |                                   | 250mW(23.98dBm) or 11dBm+10 log B |
| U-NII-2C       | ✓            |                                   | 250mW(23.98dBm) or 11dBm+10 log B |
| U-NII-3        | ✓            |                                   | 1 Watt(30dBm)                     |

#### IC

| OPERZTION FREQUENCY BAND           | LIMIT                                                                                                                                           |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 5150~5250 MHz                      | EIRP shall not exceed 200 mW or 10 + 10 log <sub>10</sub> B, dBm                                                                                |
| 5250~5350 MHz                      | Conducted output power shall not exceed 250 mW or 11 +10 log <sub>10</sub> B<br>EIRP shall not exceed 1.0 W or 17 + 10 log <sub>10</sub> B, dBm |
| 5470-5600 MHz and<br>5650-5725 MHz | Conducted output power shall not exceed 250 mW or 11 +10 log <sub>10</sub> B<br>EIRP shall not exceed 1.0 W or 17 + 10 log <sub>10</sub> B, dBm |
| 5725~5850 MHz                      | Conducted output power shall not exceed 1 W                                                                                                     |

If transmitting antennas of directional gain greater than 6 dBi are used, both the transmit power and the power spectral density shall be reduced by the amount in dB that the direction-al gain of the antenna exceeds 6 dBi.

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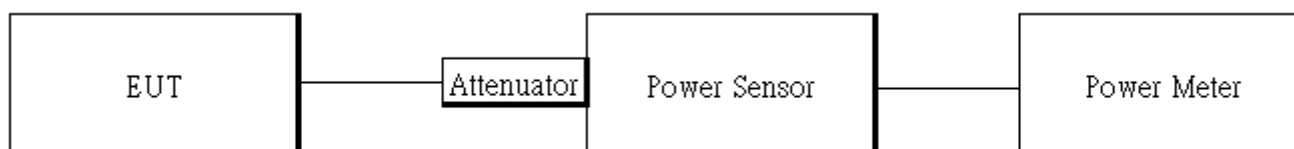
## 9.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add  $10 \log(1/\text{duty cycle})$ .
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

## 9.3 Measurement Equipment Used

| SGS Conducted Room  |              |                |               |                  |                 |
|---------------------|--------------|----------------|---------------|------------------|-----------------|
| Name of Equipment   | Manufacturer | Model          | Serial Number | Calibration Date | Calibration Due |
| Power Meter         | Anritsu      | ML2496A        | 1326001       | 06/23/2017       | 06/22/2018      |
| Power Sensor        | Anritsu      | MA2411B        | 1315048       | 06/23/2017       | 06/22/2018      |
| Power Sensor        | Anritsu      | MA2411B        | 1315049       | 06/23/2017       | 06/22/2018      |
| Coaxial Cable 30cm  | WOKEN        | 00100A1F1A195C | RF01          | 12/12/2016       | 12/11/2017      |
| DC Block            | PASTERNAK    | PE8210         | RF29          | 12/12/2016       | 12/11/2017      |
| Attenuator          | WOKEN        | 218FS-10       | RF23          | 12/12/2016       | 12/11/2017      |
| DC Power Supply     | Agilent      | E3640A         | MY53140006    | 05/02/2017       | 05/01/2018      |
| Temperature Chamber | TERCHY       | MHK-120LK      | 1020582       | 06/13/2017       | 06/12/2018      |

## 9.4 Test Set-up



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## 9.5 Measurement Result

### Conducted output power (FCC)

#### 802.11a\_MIMO

| CH  | Frequency (MHz) | Data Rate | Avg. POWER (dBm) |       | TOTAL POWER (dBm) | REQUIRED LIMIT (dBm)            | RESULT |
|-----|-----------------|-----------|------------------|-------|-------------------|---------------------------------|--------|
|     |                 |           | CH 0             | CH 1  |                   |                                 |        |
| 36  | 5180            | 6         | 14.79            | 14.62 | <b>17.94</b>      | 23.98                           | PASS   |
| 44  | 5220            | 6         | 14.67            | 14.74 | 17.94             | 23.98                           | PASS   |
| 48  | 5240            | 6         | 14.61            | 14.78 | 17.93             | 23.98                           | PASS   |
| 52  | 5260            | 6         | 14.67            | 14.84 | <b>17.99</b>      | 23.98 or $11+10\log(B) = 24.70$ | PASS   |
| 60  | 5300            | 6         | 14.59            | 14.91 | 17.98             | 23.98 or $11+10\log(B) = 24.62$ | PASS   |
| 64  | 5320            | 6         | 14.72            | 14.86 | 18.02             | 23.98 or $11+10\log(B) = 24.31$ | PASS   |
| 100 | 5500            | 6         | 14.78            | 15.12 | <b>18.18</b>      | 23.98 or $11+10\log(B) = 24.31$ | PASS   |
| 116 | 5580            | 6         | 14.8             | 15.02 | 18.14             | 23.98 or $11+10\log(B) = 24.33$ | PASS   |
| 140 | 5700            | 6         | 14.89            | 15.04 | <b>18.20</b>      | 23.98 or $11+10\log(B) = 24.32$ | PASS   |
| 149 | 5745            | 6         | 14.92            | 15.03 | <b>18.21</b>      | 30                              | PASS   |
| 157 | 5785            | 6         | 14.63            | 14.77 | 17.93             | 30                              | PASS   |
| 165 | 5825            | 6         | 14.84            | 15.04 | 18.17             | 30                              | PASS   |

#### 802.11n\_HT20\_MIMO

| CH  | Frequency (MHz) | Data Rate | Avg. POWER (dBm) |       | TOTAL POWER (dBm) | REQUIRED LIMIT (dBm)            | RESULT |
|-----|-----------------|-----------|------------------|-------|-------------------|---------------------------------|--------|
|     |                 |           | CH 0             | CH 1  |                   |                                 |        |
| 36  | 5180            | MCS8      | 13.85            | 14.04 | 17.37             | 23.98                           | PASS   |
| 44  | 5220            | MCS8      | 13.87            | 14.05 | <b>17.38</b>      | 23.98                           | PASS   |
| 48  | 5240            | MCS8      | 13.79            | 14.04 | 17.34             | 23.98                           | PASS   |
| 52  | 5260            | MCS8      | 13.84            | 14.05 | <b>17.37</b>      | 23.98 or $11+10\log(B) = 24.58$ | PASS   |
| 60  | 5300            | MCS8      | 13.82            | 14.11 | <b>17.39</b>      | 23.98 or $11+10\log(B) = 24.67$ | PASS   |
| 64  | 5320            | MCS8      | 13.66            | 13.76 | 17.13             | 23.98 or $11+10\log(B) = 24.60$ | PASS   |
| 100 | 5500            | MCS8      | 13.68            | 13.92 | 17.22             | 23.98 or $11+10\log(B) = 24.44$ | PASS   |
| 116 | 5580            | MCS8      | 13.57            | 13.87 | 17.14             | 23.98 or $11+10\log(B) = 24.57$ | PASS   |
| 140 | 5700            | MCS8      | 13.85            | 14.01 | <b>17.35</b>      | 23.98 or $11+10\log(B) = 24.64$ | PASS   |
| 149 | 5745            | MCS8      | 13.88            | 14.07 | 17.40             | 30                              | PASS   |
| 157 | 5785            | MCS8      | 13.87            | 14.08 | <b>17.40</b>      | 30                              | PASS   |
| 165 | 5825            | MCS8      | 13.72            | 13.97 | 17.27             | 30                              | PASS   |

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## 802.11ac\_VHT20\_MIMO

| CH  | Frequency (MHz) | Data Rate | Avg. POWER (dBm) |       | TOTAL POWER (dBm) | REQUIRED LIMIT (dBm)         | RESULT |
|-----|-----------------|-----------|------------------|-------|-------------------|------------------------------|--------|
|     |                 |           | CH 0             | CH 1  |                   |                              |        |
| 36  | 5180            | MCS8      | 12.82            | 13.04 | 16.18             | 23.98                        | PASS   |
| 44  | 5220            | MCS8      | 12.87            | 13.08 | 16.22             | 23.98                        | PASS   |
| 48  | 5240            | MCS8      | 12.84            | 13.06 | 16.20             | 23.98                        | PASS   |
| 52  | 5260            | MCS8      | 12.87            | 13.09 | 16.23             | 23.98 or 11+10log(B) = 24.58 | PASS   |
| 60  | 5300            | MCS8      | 12.45            | 12.72 | 15.83             | 23.98 or 11+10log(B) = 24.67 | PASS   |
| 64  | 5320            | MCS8      | 12.59            | 12.75 | 15.92             | 23.98 or 11+10log(B) = 24.60 | PASS   |
| 100 | 5500            | MCS8      | 12.63            | 12.86 | 15.99             | 23.98 or 11+10log(B) = 24.44 | PASS   |
| 116 | 5580            | MCS8      | 12.54            | 12.84 | 15.94             | 23.98 or 11+10log(B) = 24.57 | PASS   |
| 140 | 5700            | MCS8      | 12.73            | 12.97 | 16.10             | 23.98 or 11+10log(B) = 24.64 | PASS   |
| 149 | 5745            | MCS8      | 12.77            | 12.97 | 16.12             | 30                           | PASS   |
| 157 | 5785            | MCS8      | 12.84            | 13.12 | 16.23             | 30                           | PASS   |
| 165 | 5825            | MCS8      | 12.73            | 12.89 | 16.06             | 30                           | PASS   |

## 802.11n\_HT40\_MIMO

| CH  | Frequency (MHz) | Data Rate | Avg. POWER (dBm) |       | TOTAL POWER (dBm) | REQUIRED LIMIT (dBm)         | RESULT |
|-----|-----------------|-----------|------------------|-------|-------------------|------------------------------|--------|
|     |                 |           | CH 0             | CH 1  |                   |                              |        |
| 38  | 5190            | MCS8      | 13.93            | 14.01 | 18.03             | 23.98                        | PASS   |
| 46  | 5230            | MCS8      | 13.55            | 13.71 | 17.69             | 23.98                        | PASS   |
| 54  | 5270            | MCS8      | 13.58            | 13.75 | 17.73             | 23.98 or 11+10log(B) = 27.10 | PASS   |
| 62  | 5310            | MCS8      | 13.53            | 13.75 | 17.70             | 23.98 or 11+10log(B) = 27.08 | PASS   |
| 102 | 5510            | MCS8      | 13.7             | 13.96 | 17.89             | 23.98 or 11+10log(B) = 27.14 | PASS   |
| 110 | 5550            | MCS8      | 13.71            | 13.97 | 17.90             | 23.98 or 11+10log(B) = 27.07 | PASS   |
| 134 | 5670            | MCS8      | 13.72            | 14.09 | 17.97             | 23.98 or 11+10log(B) = 27.05 | PASS   |
| 151 | 5755            | MCS8      | 13.83            | 14.13 | 18.05             | 30                           | PASS   |
| 159 | 5795            | MCS8      | 13.85            | 14.05 | 18.01             | 30                           | PASS   |

## 802.11ac\_VHT40\_MIMO

| CH  | Frequency (MHz) | Data Rate | Avg. POWER (dBm) |       | TOTAL POWER (dBm) | REQUIRED LIMIT (dBm)         | RESULT |
|-----|-----------------|-----------|------------------|-------|-------------------|------------------------------|--------|
|     |                 |           | CH 0             | CH 1  |                   |                              |        |
| 38  | 5190            | MCS8      | 11.59            | 11.74 | 15.15             | 23.98                        | PASS   |
| 46  | 5230            | MCS8      | 11.66            | 11.82 | 15.22             | 23.98                        | PASS   |
| 54  | 5270            | MCS8      | 11.74            | 11.87 | 15.29             | 23.98 or 11+10log(B) = 27.10 | PASS   |
| 62  | 5310            | MCS8      | 11.64            | 11.84 | 15.22             | 23.98 or 11+10log(B) = 27.08 | PASS   |
| 102 | 5510            | MCS8      | 11.85            | 12.11 | 15.46             | 23.98 or 11+10log(B) = 27.14 | PASS   |
| 110 | 5550            | MCS8      | 11.84            | 12.09 | 15.45             | 23.98 or 11+10log(B) = 27.07 | PASS   |
| 134 | 5670            | MCS8      | 11.51            | 11.72 | 15.10             | 23.98 or 11+10log(B) = 27.05 | PASS   |
| 151 | 5755            | MCS8      | 11.52            | 11.76 | 15.12             | 30                           | PASS   |
| 159 | 5795            | MCS8      | 11.57            | 11.81 | 15.17             | 30                           | PASS   |

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## 802.11ac\_VHT80\_MIMO

| CH  | Frequency<br>(MHz) | Data<br>Rate | Avg. POWER (dBm) |       | TOTAL<br>POWER<br>(dBm) | REQUIRED<br>LIMIT<br>(dBm)      | RESULT |
|-----|--------------------|--------------|------------------|-------|-------------------------|---------------------------------|--------|
|     |                    |              | CH 0             | CH 1  |                         |                                 |        |
| 42  | 5210               | MCS8         | 11.79            | 11.93 | <b>16.03</b>            | 23.98                           | PASS   |
| 58  | 5290               | MCS8         | 11.84            | 11.97 | <b>16.07</b>            | 23.98 or $11+10\log(B) = 30.16$ | PASS   |
| 106 | 5530               | MCS8         | 11.47            | 11.74 | <b>15.77</b>            | 23.98 or $11+10\log(B) = 30.18$ | PASS   |
| 122 | 5610               | MCS8         | 11.43            | 11.77 | <b>15.77</b>            | 23.98 or $11+10\log(B) = 30.12$ | PASS   |
| 155 | 5775               | MCS8         | 11.63            | 11.85 | <b>15.91</b>            | 30                              | PASS   |

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## Conducted output power (IC)

### 802.11a\_MIMO

| CH  | Frequency (MHz) | Avg. POWER (dBm) |      | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm)            | RESULT |
|-----|-----------------|------------------|------|-------------------|------------------|---------------------------------|--------|
|     |                 | CH 0             | CH 1 |                   |                  |                                 |        |
| 52  | 5260            | 14.7             | 14.8 | 17.77             | 59.788           | 23.98 or $11+10\log(B) = 23.22$ | PASS   |
| 60  | 5300            | 14.6             | 14.9 | 17.76             | 59.748           | 23.98 or $11+10\log(B) = 23.21$ | PASS   |
| 64  | 5320            | 14.7             | 14.9 | <b>17.80</b>      | <b>60.268</b>    | 23.98 or $11+10\log(B) = 23.22$ | PASS   |
| 100 | 5500            | 14.8             | 15.1 | <b>17.96</b>      | <b>62.569</b>    | 23.98 or $11+10\log(B) = 23.20$ | PASS   |
| 116 | 5580            | 14.8             | 15   | 17.92             | 61.968           | 23.98 or $11+10\log(B) = 23.20$ | PASS   |
| 140 | 5700            | 14.9             | 15   | <b>17.98</b>      | <b>62.747</b>    | 23.98 or $11+10\log(B) = 23.21$ | PASS   |
| 149 | 5745            | 14.9             | 15   | <b>17.99</b>      | <b>62.888</b>    | 30                              | PASS   |
| 157 | 5785            | 14.6             | 14.8 | 17.71             | 59.032           | 30                              | PASS   |
| 165 | 5825            | 14.8             | 15   | 17.95             | 62.394           | 30                              | PASS   |

### 802.11n\_HT20\_MIMO

| CH  | Frequency (MHz) | Avg. POWER (dBm) |      | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm)            | RESULT |
|-----|-----------------|------------------|------|-------------------|------------------|---------------------------------|--------|
|     |                 | CH 0             | CH 1 |                   |                  |                                 |        |
| 52  | 5260            | 13.8             | 14.1 | 16.96             | 49.620           | 23.98 or $11+10\log(B) = 23.50$ | PASS   |
| 60  | 5300            | 13.8             | 14.1 | <b>16.98</b>      | <b>49.862</b>    | 23.98 or $11+10\log(B) = 23.51$ | PASS   |
| 64  | 5320            | 13.7             | 13.8 | 16.72             | 46.996           | 23.98 or $11+10\log(B) = 23.49$ | PASS   |
| 100 | 5500            | 13.7             | 13.9 | <b>16.81</b>      | <b>47.995</b>    | 23.98 or $11+10\log(B) = 23.50$ | PASS   |
| 116 | 5580            | 13.6             | 13.9 | 16.73             | 47.129           | 23.98 or $11+10\log(B) = 23.49$ | PASS   |
| 140 | 5700            | 13.9             | 14   | <b>16.94</b>      | <b>49.443</b>    | 23.98 or $11+10\log(B) = 23.50$ | PASS   |
| 149 | 5745            | 13.9             | 14.1 | 16.99             | 49.961           | 30                              | PASS   |
| 157 | 5785            | 13.9             | 14.1 | <b>16.99</b>      | <b>49.964</b>    | 30                              | PASS   |
| 165 | 5825            | 13.7             | 14   | 16.86             | 48.496           | 30                              | PASS   |

### 802.11ac\_VHT20\_MIMO

| CH  | Frequency (MHz) | Avg. POWER (dBm) |      | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm)            | RESULT |
|-----|-----------------|------------------|------|-------------------|------------------|---------------------------------|--------|
|     |                 | CH 0             | CH 1 |                   |                  |                                 |        |
| 52  | 5260            | 12.9             | 13.1 | <b>15.99</b>      | <b>39.735</b>    | 23.98 or $11+10\log(B) = 23.50$ | PASS   |
| 60  | 5300            | 12.5             | 12.7 | 15.60             | 36.286           | 23.98 or $11+10\log(B) = 23.51$ | PASS   |
| 64  | 5320            | 12.6             | 12.8 | 15.68             | 36.992           | 23.98 or $11+10\log(B) = 23.49$ | PASS   |
| 100 | 5500            | 12.6             | 12.9 | <b>15.76</b>      | <b>37.643</b>    | 23.98 or $11+10\log(B) = 23.50$ | PASS   |
| 116 | 5580            | 12.5             | 12.8 | 15.70             | 37.178           | 23.98 or $11+10\log(B) = 23.49$ | PASS   |
| 140 | 5700            | 12.7             | 13   | <b>15.86</b>      | <b>38.565</b>    | 23.98 or $11+10\log(B) = 23.50$ | PASS   |
| 149 | 5745            | 12.8             | 13   | 15.88             | 38.739           | 30                              | PASS   |
| 157 | 5785            | 12.8             | 13.1 | <b>15.99</b>      | <b>39.743</b>    | 30                              | PASS   |
| 165 | 5825            | 12.7             | 12.9 | 15.82             | 38.204           | 30                              | PASS   |

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## 802.11n\_HT40\_MIMO

| CH  | Frequency (MHz) | AVERAGE POWER (dBm) |       | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm)         | RESULT |
|-----|-----------------|---------------------|-------|-------------------|------------------|------------------------------|--------|
|     |                 | CH 0                | CH 1  |                   |                  |                              |        |
| 54  | 5270            | 13.58               | 13.75 | <b>16.68</b>      | <b>46.517</b>    | 23.98 or 11+10log(B) = 26.57 | PASS   |
| 62  | 5310            | 13.53               | 13.75 | 16.65             | 46.256           | 23.98 or 11+10log(B) = 26.58 | PASS   |
| 102 | 5510            | 13.7                | 13.96 | 16.84             | 48.331           | 23.98 or 11+10log(B) = 26.58 | PASS   |
| 110 | 5550            | 13.71               | 13.97 | <b>16.85</b>      | <b>48.442</b>    | 23.98 or 11+10log(B) = 26.57 | PASS   |
| 134 | 5670            | 13.72               | 14.09 | <b>16.92</b>      | <b>49.195</b>    | 23.98 or 11+10log(B) = 26.57 | PASS   |
| 151 | 5755            | 13.83               | 14.13 | <b>16.99</b>      | <b>50.037</b>    | 30                           | PASS   |
| 159 | 5795            | 13.85               | 14.05 | 16.96             | 49.676           | 30                           | PASS   |

## 802.11ac\_VHT40\_MIMO

| CH  | Frequency (MHz) | Avg. POWER (dBm) |      | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm)         | RESULT |
|-----|-----------------|------------------|------|-------------------|------------------|------------------------------|--------|
|     |                 | CH 0             | CH 1 |                   |                  |                              |        |
| 54  | 5270            | 11.7             | 11.9 | <b>14.82</b>      | <b>30.309</b>    | 23.98 or 11+10log(B) = 26.57 | PASS   |
| 62  | 5310            | 11.6             | 11.8 | 14.75             | 29.864           | 23.98 or 11+10log(B) = 26.58 | PASS   |
| 102 | 5510            | 11.9             | 12.1 | <b>14.99</b>      | <b>31.566</b>    | 23.98 or 11+10log(B) = 26.58 | PASS   |
| 110 | 5550            | 11.8             | 12.1 | 14.98             | 31.456           | 23.98 or 11+10log(B) = 26.57 | PASS   |
| 134 | 5670            | 11.5             | 11.7 | <b>14.63</b>      | <b>29.017</b>    | 23.98 or 11+10log(B) = 26.57 | PASS   |
| 151 | 5755            | 11.5             | 11.8 | 14.65             | 29.187           | 30                           | PASS   |
| 159 | 5795            | 11.6             | 11.8 | <b>14.70</b>      | <b>29.525</b>    | 30                           | PASS   |

## 802.11ac\_VHT80\_MIMO

| CH  | Frequency (MHz) | Avg. POWER (dBm) |      | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm)         | RESULT |
|-----|-----------------|------------------|------|-------------------|------------------|------------------------------|--------|
|     |                 | CH 0             | CH 1 |                   |                  |                              |        |
| 58  | 5290            | 11.8             | 12   | <b>14.92</b>      | <b>31.015</b>    | 23.98 or 11+10log(B) = 29.78 | PASS   |
| 106 | 5530            | 11.5             | 11.7 | <b>14.62</b>      | <b>28.956</b>    | 23.98 or 11+10log(B) = 29.78 | PASS   |
| 155 | 5775            | 11.6             | 11.9 | <b>14.75</b>      | <b>29.865</b>    | 30                           | PASS   |

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## EIRP

## 802.11a\_MIMO

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (mW) | REQUIRED LIMIT (dBm) |                         | RESULT |
|-----|-----------------|-------------------|--------------------|------------|-----------|----------------------|-------------------------|--------|
| 36  | 5180            | 17.94             | -3.59              | 14.35      | 27.200    | 23.01                | or $10+10\log(B)=22.21$ | PASS   |
| 44  | 5220            | 17.94             | -3.59              | 14.35      | 27.196    | 23.01                | or $10+10\log(B)=22.21$ | PASS   |
| 48  | 5240            | 17.93             | -3.59              | 14.34      | 27.137    | 23.01                | or $10+10\log(B)=22.21$ | PASS   |
| 52  | 5260            | 17.99             | -4.39              | 13.60      | 22.886    | 30                   | or $17+10\log(B)=29.22$ | PASS   |
| 60  | 5300            | 17.98             | -4.39              | 13.59      | 22.871    | 30                   | or $17+10\log(B)=29.21$ | PASS   |
| 64  | 5320            | 18.02             | -4.39              | 13.63      | 23.070    | 30                   | or $17+10\log(B)=29.22$ | PASS   |
| 100 | 5500            | 18.18             | -2.19              | 15.99      | 39.748    | 30                   | or $17+10\log(B)=29.20$ | PASS   |
| 116 | 5580            | 18.14             | -2.19              | 15.95      | 39.366    | 30                   | or $17+10\log(B)=29.20$ | PASS   |
| 140 | 5700            | 18.20             | -2.19              | 16.01      | 39.861    | 30                   | or $17+10\log(B)=29.21$ | PASS   |

## 802.11n\_HT20\_MIMO

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (mW) | REQUIRED LIMIT (dBm) |                         | RESULT |
|-----|-----------------|-------------------|--------------------|------------|-----------|----------------------|-------------------------|--------|
| 36  | 5180            | 17.37             | -3.59              | 13.78      | 23.856    | 23.01                | or $10+10\log(B)=22.49$ | PASS   |
| 44  | 5220            | 17.38             | -3.59              | 13.79      | 23.938    | 23.01                | or $10+10\log(B)=22.50$ | PASS   |
| 48  | 5240            | 17.34             | -3.59              | 13.75      | 23.696    | 23.01                | or $10+10\log(B)=22.51$ | PASS   |
| 52  | 5260            | 17.37             | -4.39              | 12.98      | 19.843    | 30                   | or $17+10\log(B)=29.50$ | PASS   |
| 60  | 5300            | 17.39             | -4.39              | 13.00      | 19.940    | 30                   | or $17+10\log(B)=29.51$ | PASS   |
| 64  | 5320            | 17.13             | -4.39              | 12.74      | 18.794    | 30                   | or $17+10\log(B)=29.49$ | PASS   |
| 100 | 5500            | 17.22             | -2.19              | 15.03      | 31.853    | 30                   | or $17+10\log(B)=29.50$ | PASS   |
| 116 | 5580            | 17.14             | -2.19              | 14.95      | 31.279    | 30                   | or $17+10\log(B)=29.49$ | PASS   |
| 140 | 5700            | 17.35             | -2.19              | 15.16      | 32.814    | 30                   | or $17+10\log(B)=29.50$ | PASS   |

## 802.11ac\_VHT20\_MIMO

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (mW) | REQUIRED LIMIT (dBm) |                         | RESULT |
|-----|-----------------|-------------------|--------------------|------------|-----------|----------------------|-------------------------|--------|
| 36  | 5180            | 16.18             | -3.59              | 12.59      | 18.148    | 23.01                | or $10+10\log(B)=22.49$ | PASS   |
| 44  | 5220            | 16.22             | -3.59              | 12.63      | 18.336    | 23.01                | or $10+10\log(B)=22.50$ | PASS   |
| 48  | 5240            | 16.20             | -3.59              | 12.61      | 18.231    | 23.01                | or $10+10\log(B)=22.51$ | PASS   |
| 52  | 5260            | 16.23             | -4.39              | 11.84      | 15.269    | 30                   | or $17+10\log(B)=29.50$ | PASS   |
| 60  | 5300            | 15.83             | -4.39              | 11.44      | 13.944    | 30                   | or $17+10\log(B)=29.51$ | PASS   |
| 64  | 5320            | 15.92             | -4.39              | 11.53      | 14.215    | 30                   | or $17+10\log(B)=29.49$ | PASS   |
| 100 | 5500            | 15.99             | -2.19              | 13.80      | 24.007    | 30                   | or $17+10\log(B)=29.50$ | PASS   |
| 116 | 5580            | 15.94             | -2.19              | 13.75      | 23.710    | 30                   | or $17+10\log(B)=29.49$ | PASS   |
| 140 | 5700            | 16.10             | -2.19              | 13.91      | 24.595    | 30                   | or $17+10\log(B)=29.50$ | PASS   |

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## 802.11n\_HT40\_MIMO

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (mW) | REQUIRED LIMIT (dBm) |                       | RESULT |
|-----|-----------------|-------------------|--------------------|------------|-----------|----------------------|-----------------------|--------|
| 38  | 5190            | 18.03             | -3.59              | 14.44      | 27.816    | 23.01                | or 10+10log(B)= 25.57 | PASS   |
| 46  | 5230            | 17.69             | -3.59              | 14.10      | 25.724    | 23.01                | or 10+10log(B)= 25.58 | PASS   |
| 54  | 5270            | 17.73             | -4.39              | 13.34      | 21.570    | 30                   | or 17+10log(B)= 32.57 | PASS   |
| 62  | 5310            | 17.70             | -4.39              | 13.31      | 21.449    | 30                   | or 17+10log(B)= 32.58 | PASS   |
| 102 | 5510            | 17.89             | -2.19              | 15.70      | 37.193    | 30                   | or 17+10log(B)= 32.58 | PASS   |
| 110 | 5550            | 17.90             | -2.19              | 15.71      | 37.279    | 30                   | or 17+10log(B)= 32.57 | PASS   |
| 134 | 5670            | 17.97             | -2.19              | 15.78      | 37.859    | 30                   | or 17+10log(B)= 32.57 | PASS   |

## 802.11ac\_VHT40\_MIMO

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (mW) | REQUIRED LIMIT (dBm) |                       | RESULT |
|-----|-----------------|-------------------|--------------------|------------|-----------|----------------------|-----------------------|--------|
| 38  | 5190            | 15.15             | -3.59              | 11.56      | 14.317    | 23.01                | or 10+10log(B)= 25.57 | PASS   |
| 46  | 5230            | 15.22             | -3.59              | 11.63      | 14.567    | 23.01                | or 10+10log(B)= 25.58 | PASS   |
| 54  | 5270            | 15.29             | -4.39              | 10.90      | 12.298    | 30                   | or 17+10log(B)= 32.57 | PASS   |
| 62  | 5310            | 15.22             | -4.39              | 10.83      | 12.117    | 30                   | or 17+10log(B)= 32.58 | PASS   |
| 102 | 5510            | 15.46             | -2.19              | 13.27      | 21.256    | 30                   | or 17+10log(B)= 32.58 | PASS   |
| 110 | 5550            | 15.45             | -2.19              | 13.26      | 21.182    | 30                   | or 17+10log(B)= 32.57 | PASS   |
| 134 | 5670            | 15.10             | -2.19              | 12.91      | 19.540    | 30                   | or 17+10log(B)= 32.57 | PASS   |

## 802.11ac\_VHT80\_MIMO

| CH  | Frequency (MHz) | TOTAL POWER (dBm) | Antenna Gain (dBi) | EIRP (dBm) |        | REQUIRED LIMIT (dBm) |                       | RESULT |
|-----|-----------------|-------------------|--------------------|------------|--------|----------------------|-----------------------|--------|
| 42  | 5210            | 16.03             | -3.59              | 12.44      | 17.522 | 23.01                | or 10+10log(B)= 28.78 | PASS   |
| 58  | 5290            | 16.07             | -4.39              | 11.68      | 14.725 | 30                   | or 17+10log(B)= 35.78 | PASS   |
| 106 | 5530            | 15.77             | -2.19              | 13.58      | 22.815 | 30                   | or 17+10log(B)= 35.78 | PASS   |

## Note:

SISO offset= 11 dB

MIMO offset= 14 dB

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## 10 POWER SPECTRAL DENSITY

### 10.1 Standard Applicable

#### FCC

| OPERZTION Band | EUT CATEGORY |                                   | LIMIT         |
|----------------|--------------|-----------------------------------|---------------|
| U-NII-1        |              | Access Point (Mater device )      | 17dBm/ MHz    |
|                |              | Fixed point-to-point Acess Ponit  |               |
|                | ✓            | Mobile and portable clinet device | 11dBm/ MHz    |
| U-NII-2A       | ✓            |                                   | 11dBm/ MHz    |
| U-NII-2C       | ✓            |                                   | 11dBm/ MHz    |
| U-NII-3        | ✓            |                                   | 30dBm/ 500kHz |

#### IC

| OPERZTION FREQUENCY BAND        | LIMIT                              |
|---------------------------------|------------------------------------|
| 5150~5250 MHz                   | EIRP spectral density 10 dBm / MHz |
| 5250~5350 MHz                   | 11dBm / MHz                        |
| 5470-5600 MHz and 5650-5725 MHz | 11dBm / MHz                        |
| 5725~5850 MHz                   | 30dBm / 500 kHz                    |

If transmitting antennas of directional gain greater than 6 dBi are used, both the transmit power and the power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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## 10.2 Measurement Procedure

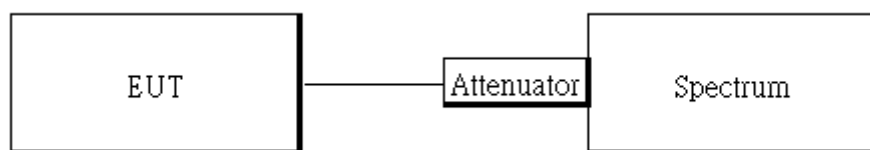
1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**  
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)  
**For U-NII-3 Band:**  
Set RBW=500 kHz, VBW $\geq$  3RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
5. Use the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

Note: For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome

## 10.3 Measurement Equipment Used

| SGS Conducted Room |              |                |               |                  |                 |
|--------------------|--------------|----------------|---------------|------------------|-----------------|
| Name of Equipment  | Manufacturer | Model          | Serial Number | Calibration Date | Calibration Due |
| Spectrum Analyzer  | KEYSIGHT     | N9010A         | MY51440113    | 06/20/2017       | 06/19/2018      |
| Coaxial Cable 30cm | WOKEN        | 00100A1F1A195C | RF01          | 12/12/2016       | 12/11/2017      |
| DC Block           | PASTERNAK    | PE8210         | RF29          | 12/12/2016       | 12/11/2017      |
| Attenuator         | WOKEN        | 218FS-10       | RF23          | 12/12/2016       | 12/11/2017      |
| DC Power Supply    | Agilent      | E3640A         | MY53140006    | 05/02/2017       | 05/01/2018      |

## 10.4 Test Set-up



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## 10.5 Measurement Result

| POWER DENSITY 802.11a MODE |                            |             |                             |                |                 |             |             |
|----------------------------|----------------------------|-------------|-----------------------------|----------------|-----------------|-------------|-------------|
| Frequency (MHz)            | PPSD W/O Duty Factor (dBm) | Duty Factor | PPSD With Duty Factor (dBm) | 10 log(N=2) dB | Total PSD (dBm) | Limit (dBm) | Margin (dB) |
| 5180                       | 5.57                       | 0.22        | 5.79                        | 3.01           | 8.80            | 11          | -2.20       |
| 5220                       | 5.46                       | 0.22        | 5.68                        | 3.01           | 8.69            | 11          | -2.31       |
| 5240                       | 5.72                       | 0.22        | 5.94                        | 3.01           | 8.95            | 11          | -2.05       |
| 5260                       | 3.85                       | 0.22        | 4.07                        | 3.01           | 7.08            | 11          | -3.92       |
| 5300                       | 7.40                       | 0.22        | 7.62                        | 3.01           | 10.63           | 11          | -0.37       |
| 5320                       | 5.88                       | 0.22        | 6.10                        | 3.01           | 9.11            | 11          | -1.89       |
| 5500                       | 6.25                       | 0.22        | 6.47                        | 3.01           | 9.48            | 11          | -1.52       |
| 5580                       | 3.78                       | 0.22        | 4.00                        | 3.01           | 7.01            | 11          | -3.99       |
| 5700                       | 3.85                       | 0.22        | 4.07                        | 3.01           | 7.08            | 11          | -3.92       |
| 5745                       | 12.98                      | 0.22        | 12.98                       | 3.01           | 15.99           | 30          | -14.01      |
| 5785                       | 13.23                      | 0.22        | 13.23                       | 3.01           | 16.24           | 30          | -13.76      |
| 5825                       | 13.75                      | 0.22        | 13.75                       | 3.01           | 16.76           | 30          | -13.24      |

| POWER DENSITY 802.11n HT20 MODE |                            |             |                             |                |                 |             |             |
|---------------------------------|----------------------------|-------------|-----------------------------|----------------|-----------------|-------------|-------------|
| Frequency (MHz)                 | PPSD W/O Duty Factor (dBm) | Duty Factor | PPSD With Duty Factor (dBm) | 10 log(N=2) dB | Total PSD (dBm) | Limit (dBm) | Margin (dB) |
| 5180                            | 1.21                       | 0.41        | 1.62                        | 3.01           | 4.63            | 11          | -6.37       |
| 5220                            | -0.55                      | 0.41        | -0.14                       | 3.01           | 2.87            | 11          | -8.13       |
| 5240                            | 0.38                       | 0.41        | 0.79                        | 3.01           | 3.80            | 11          | -7.20       |
| 5260                            | 0.63                       | 0.41        | 1.04                        | 3.01           | 4.05            | 11          | -6.95       |
| 5300                            | 2.28                       | 0.41        | 2.69                        | 3.01           | 5.70            | 11          | -5.30       |
| 5320                            | 0.53                       | 0.41        | 0.94                        | 3.01           | 3.95            | 11          | -7.05       |
| 5500                            | 3.50                       | 0.41        | 3.91                        | 3.01           | 6.92            | 11          | -4.08       |
| 5580                            | 0.27                       | 0.41        | 0.68                        | 3.01           | 3.69            | 11          | -7.31       |
| 5700                            | 3.11                       | 0.41        | 3.52                        | 3.01           | 6.53            | 11          | -4.47       |
| 5745                            | 12.55                      | 0.41        | 12.55                       | 3.01           | 15.56           | 30          | -14.44      |
| 5785                            | 12.30                      | 0.41        | 12.30                       | 3.01           | 15.31           | 30          | -14.69      |
| 5825                            | 11.90                      | 0.41        | 11.90                       | 3.01           | 14.91           | 30          | -15.09      |

| POWER DENSITY 802.11n HT40 MODE |                            |             |                             |                |                 |             |             |
|---------------------------------|----------------------------|-------------|-----------------------------|----------------|-----------------|-------------|-------------|
| Frequency (MHz)                 | PPSD W/O Duty Factor (dBm) | Duty Factor | PPSD With Duty Factor (dBm) | 10 log(N=2) dB | Total PSD (dBm) | Limit (dBm) | Margin (dB) |
| 5190                            | -7.92                      | 1.05        | -6.87                       | 3.01           | -3.86           | 11          | -14.86      |
| 5230                            | -6.62                      | 1.05        | -5.57                       | 3.01           | -2.56           | 11          | -13.56      |
| 5270                            | -4.27                      | 1.05        | -3.22                       | 3.01           | -0.21           | 11          | -11.21      |
| 5310                            | -6.13                      | 1.05        | -5.08                       | 3.01           | -2.07           | 11          | -13.07      |
| 5510                            | -6.46                      | 1.05        | -5.41                       | 3.01           | -2.40           | 11          | -13.40      |
| 5550                            | -4.5                       | 1.05        | -3.45                       | 3.01           | -0.44           | 11          | -11.44      |
| 5670                            | -6.40                      | 1.05        | -5.35                       | 3.01           | -2.34           | 11          | -13.34      |
| 5755                            | 10.25                      | 1.05        | 10.25                       | 3.01           | 13.26           | 30          | -16.74      |
| 5795                            | 11.28                      | 1.05        | 11.28                       | 3.01           | 14.29           | 30          | -15.71      |

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| POWER DENSITY 802.11ac VHT80 MODE |                            |             |                             |                |                 |             |             |
|-----------------------------------|----------------------------|-------------|-----------------------------|----------------|-----------------|-------------|-------------|
| Frequency (MHz)                   | PPSD W/O Duty Factor (dBm) | Duty Factor | PPSD With Duty Factor (dBm) | 10 log(N=2) dB | Total PSD (dBm) | Limit (dBm) | Margin (dB) |
| 5210                              | -10.24                     | 1.15        | -9.09                       | 3.01           | -6.07           | 11          | -17.07      |
| 5290                              | -9.50                      | 1.15        | -8.35                       | 3.01           | -5.33           | 11          | -16.33      |
| 5530                              | -8.70                      | 1.15        | -7.55                       | 3.01           | -4.53           | 11          | -15.53      |
| 5610                              | -10.69                     | 1.15        | -9.54                       | 3.01           | -6.52           | 11          | -17.52      |
| 5775                              | 5.16                       | 1.15        | 5.16                        | 3.01           | 8.17            | 30          | -21.83      |

## EIRP Power Density

| EIRP spectral density 802.11a MODE |            |                 |               |             |             | EIRP spectral density 802.11n HT20 MODE |            |                 |               |             |             |
|------------------------------------|------------|-----------------|---------------|-------------|-------------|-----------------------------------------|------------|-----------------|---------------|-------------|-------------|
| Freq. (MHz)                        | PPSD (dBm) | Ant. Gain (dBi) | EIRP SD (dBm) | Limit (dBm) | Margin (dB) | Freq. (MHz)                             | PPSD (dBm) | Ant. Gain (dBi) | EIRP SD (dBm) | Limit (dBm) | Margin (dB) |
| 5180                               | 5.79       | -3.59           | 2.20          | 10          | -4.21       | 5180                                    | 1.62       | -3.59           | -1.97         | 10          | -8.38       |
| 5220                               | 5.68       | -3.59           | 2.09          | 10          | -4.32       | 5220                                    | -0.14      | -3.59           | -3.73         | 10          | -10.14      |
| 5240                               | 5.94       | -3.59           | 2.35          | 10          | -4.06       | 5240                                    | 0.79       | -3.59           | -2.80         | 10          | -9.21       |

| EIRP spectral density 802.11n HT40 MODE |            |                 |               |             |             | EIRP spectral density 802.11ac VHT80 MODE |            |                 |               |             |             |
|-----------------------------------------|------------|-----------------|---------------|-------------|-------------|-------------------------------------------|------------|-----------------|---------------|-------------|-------------|
| Freq. (MHz)                             | PPSD (dBm) | Ant. Gain (dBi) | EIRP SD (dBm) | Limit (dBm) | Margin (dB) | Freq. (MHz)                               | PPSD (dBm) | Ant. Gain (dBi) | EIRP SD (dBm) | Limit (dBm) | Margin (dB) |
| 5180                                    | -6.87      | -3.59           | -10.46        | 10          | -16.87      | 5210                                      | -9.09      | -3.59           | -12.68        | 10          | -19.09      |
| 5220                                    | -5.57      | -3.59           | -9.16         | 10          | -15.57      |                                           |            |                 |               |             |             |

### Note:

SISO offset= 11 dB

MIMO offset= 14 dB

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802.11a\_20MHz\_5180MHz



802.11a\_20MHz\_5260MHz



802.11a\_20MHz\_5220MHz



802.11a\_20MHz\_5300MHz



802.11a\_20MHz\_5240MHz



802.11a\_20MHz\_5320MHz



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802.11a\_20MHz\_5500MHz



802.11a\_20MHz\_5745MHz



802.11a\_20MHz\_5580MHz



802.11a\_20MHz\_5785MHz



802.11a\_20MHz\_5700MHz



802.11a\_20MHz\_5825MHz



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802.11n\_20MHz\_5180MHz



802.11n\_20MHz\_5260MHz



802.11n\_20MHz\_5220MHz



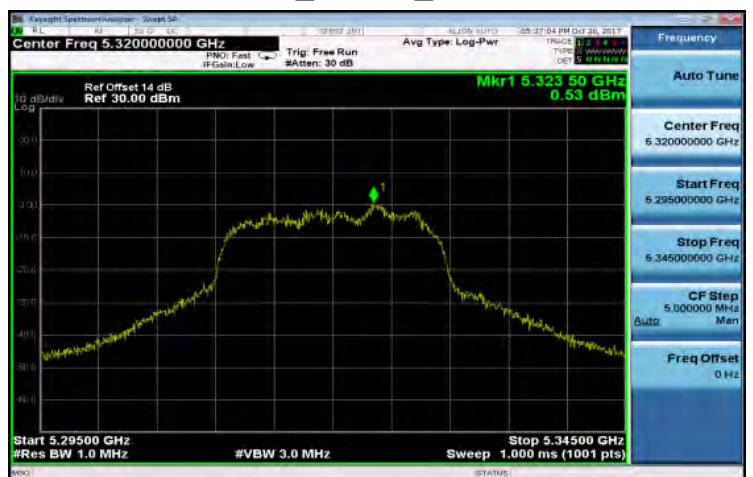
802.11n\_20MHz\_5300MHz



802.11n\_20MHz\_5240MHz



802.11n\_20MHz\_5320MHz



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802.11n\_20MHz\_5500MHz



802.11n\_20MHz\_5745MHz



802.11n\_20MHz\_5580MHz



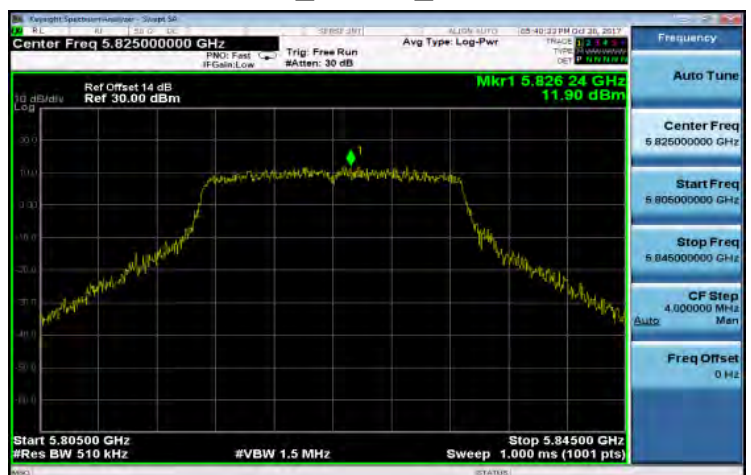
802.11n\_20MHz\_5785MHz



802.11n\_20MHz\_5700MHz



802.11n\_20MHz\_5825MHz



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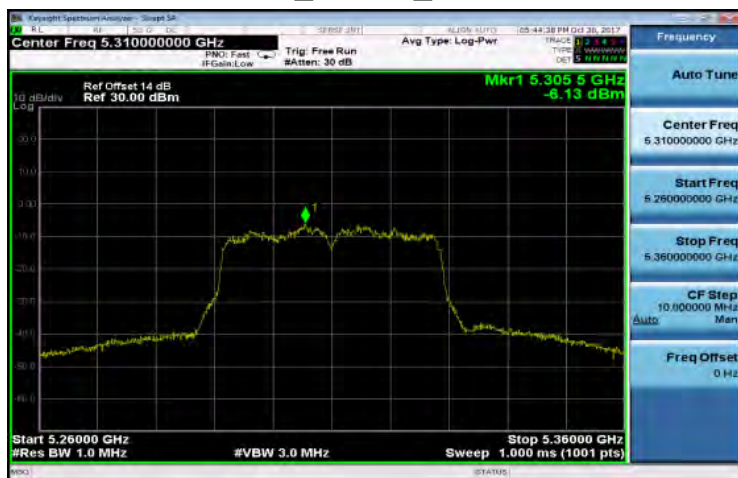
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802.11n\_40MHz\_5190MHz



802.11n\_40MHz\_5310MHz



802.11n\_40MHz\_5230MHz



802.11n\_40MHz\_5510MHz



802.11n\_40MHz\_5270MHz



802.11n\_40MHz\_5550MHz



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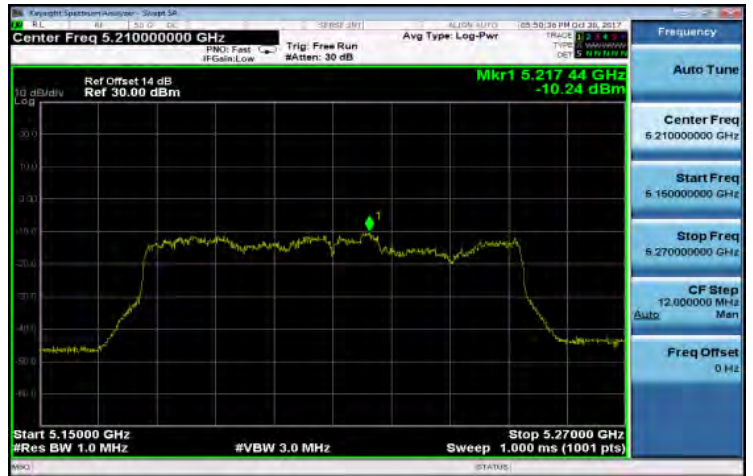
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802.11n\_40MHz\_5670MHz



802.11ac\_80MHz\_5210MHz



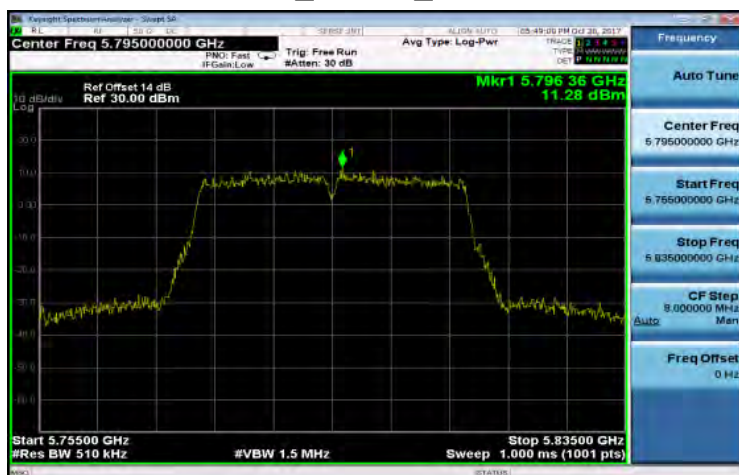
802.11n\_40MHz\_5755MHz



802.11ac\_80MHz\_5290MHz



802.11n\_40MHz\_5795MHz



802.11ac\_80MHz\_5530MHz



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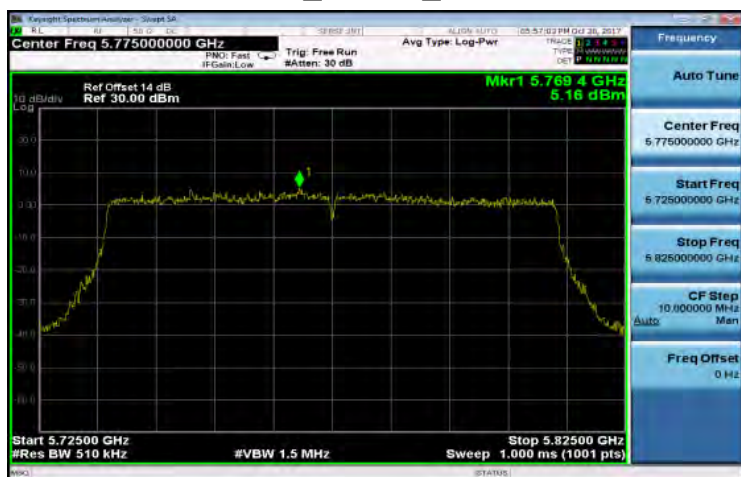
## 802.11ac\_80MHz\_5610MHz



## 802.11ac\_80MHz\_5690MHz



## 802.11ac\_80MHz\_5775MHz



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## 11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

### 11.1 Standard Applicable

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
2. For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

| APPLICABLE TO                                                                                                                                                                                                                                                                                                                      | LIMIT                                                                                   |                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| FCC KDB 789033 D02 General<br>UNII Test Procedures New Rules                                                                                                                                                                                                                                                                       | FIELD STRENGTH AT 3m                                                                    |                                                                                             |
|                                                                                                                                                                                                                                                                                                                                    | PK: 74 (dBμV/m)                                                                         | AV 54 (dBμV/m)                                                                              |
| APPLICABLE TO                                                                                                                                                                                                                                                                                                                      | EIRP LIMIT                                                                              | FIELD STRENGTH AT 3m                                                                        |
| 15.407(b)(1)<br>RSS-247 6.2.1.2                                                                                                                                                                                                                                                                                                    | PK: -27 (dBm/MHz)                                                                       | PK: 68.3 (dBμV/m)                                                                           |
| 15.407(b)(2)<br>RSS-247 6.2.2.2                                                                                                                                                                                                                                                                                                    |                                                                                         |                                                                                             |
| 15.407(b)(3)<br>RSS-247 6.2.3.2                                                                                                                                                                                                                                                                                                    |                                                                                         |                                                                                             |
| 15.407(b)(4)(i)<br>RSS-247 6.2.4.2                                                                                                                                                                                                                                                                                                 | PK:-27 (dBm/MHz) *1<br>PK:10 (dBm/MHz) *2<br>PK:15.6 (dBm/MHz) *3<br>PK:27 (dBm/MHz) *4 | PK: 68.2(dBμV/m) *1<br>PK:105.2 (dBμV/m) *2<br>PK: 110.8(dBμV/m) *3<br>PK:122.2 (dBμV/m) *4 |
| *1 beyond 75 MHz or more above of the bandedge.<br>*2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.<br>*3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.<br>*4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. |                                                                                         |                                                                                             |

$EIRP = (E \cdot d)^2 / 30$ , where E is the field in V/m, d is the measurement distance (3m), EIRP is the equivalent isotropically radiated power in Watts.

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Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

| Frequency (MHz) | Field strength (microvolts/meter) | Distance (meters) |
|-----------------|-----------------------------------|-------------------|
| 0.009-0.490     | 2400/F(KHz)                       | 300               |
| 0.490-1.705     | 24000/F(KHz)                      | 30                |
| 1.705-30        | 30                                | 30                |
| 30-88           | 100                               | 3                 |
| 88-216          | 150                               | 3                 |
| 216-960         | 200                               | 3                 |
| Above 960       | 500                               | 3                 |

**Note:**

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBμV/m) = 20 log Emission level (dBμV/m)

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## 11.2 Measurement Equipment Used

| SGS 966 Chamber No.C |                 |                                |               |            |            |
|----------------------|-----------------|--------------------------------|---------------|------------|------------|
| EQUIPMENT TYPE       | MFR             | MODEL NUMBER                   | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| EMI Test Receiver    | R&S             | ESU 40                         | 100363        | 04/18/2017 | 04/17/2018 |
| Loop Antenna         | ETS-Lindgren    | 6502                           | 00143303      | 12/23/2016 | 12/22/2017 |
| Broadband Antenna    | TESEQ           | CBL 6112D                      | 35240         | 11/03/2016 | 11/02/2017 |
| Horn Antenna         | ETS-Lindgren    | 3117                           | 00143272      | 12/15/2016 | 12/16/2017 |
| Horn Antenna         | Schwarzbeck     | BBHA9170                       | 185           | 08/01/2017 | 07/31/2018 |
| Pre Amplifier        | EMC Instruments | EMC330                         | 980096        | 12/12/2016 | 12/11/2017 |
| Pre Amplifier        | EMC Instruments | EMC0011830                     | 980199        | 12/12/2016 | 12/11/2017 |
| Pre Amplifier        | R&S             | SCU-18                         | 10204         | 12/12/2016 | 12/11/2017 |
| Pre Amplifier        | R&S             | SCU-26                         | 100780        | 12/12/2016 | 12/11/2017 |
| Coaxial Cable        | Huber+Suhner    | RG 214/U                       | 966Rx 9K-30M  | 12/12/2016 | 12/11/2017 |
| Coaxial Cable        | Huber+Suhner    | RG 214/U<br>SUCOFLEX 104       | 966Rx 30M-3G  | 12/12/2016 | 12/11/2017 |
| Coaxial Cable        | Huber+Suhner    | SUCOFLEX 104                   | 966Rx 1G-18G  | 12/12/2016 | 12/11/2017 |
| Coaxial Cable        | Huber+Suhner    | mini 141-12<br>SUCOFLEX<br>104 | 966Rx 18G-40G | 12/12/2016 | 12/11/2017 |
| Coaxial Cable        | Huber+Suhner    | SUCOFLEX 104                   | 966Tx 30M-18G | 12/12/2016 | 12/11/2017 |
| Coaxial Cable        | Huber+Suhner    | SUCOFLEX 102                   | 966Tx 18G-40G | 12/12/2016 | 12/11/2017 |
| Attenuator           | WOKEN           | 218FS-10                       | RF27          | 12/12/2016 | 12/11/2017 |
| Site NSA             | SGS             | 966 Chamber C                  | SAC-C         | 03/02/2017 | 03/01/2018 |
| Site VSWR            | SGS             | 966 Chamber C                  | SAC-C         | 03/02/2017 | 03/01/2018 |
| DC Power Supply      | HOLA            | DP-3003                        | D7070035      | 05/04/2017 | 05/03/2018 |
| Controller           | MF              | MF-7802                        | N/A           | N.C.R.     | N.C.R.     |
| Antenna Master       | MF              | N/A                            | N/A           | N.C.R.     | N.C.R.     |
| Turn Table           | MF              | N/A                            | N/A           | N.C.R.     | N.C.R.     |
| Test Software        | World-Pallas    | Dr. E                          | V 3.0 Lite    | N.C.R.     | N.C.R.     |

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

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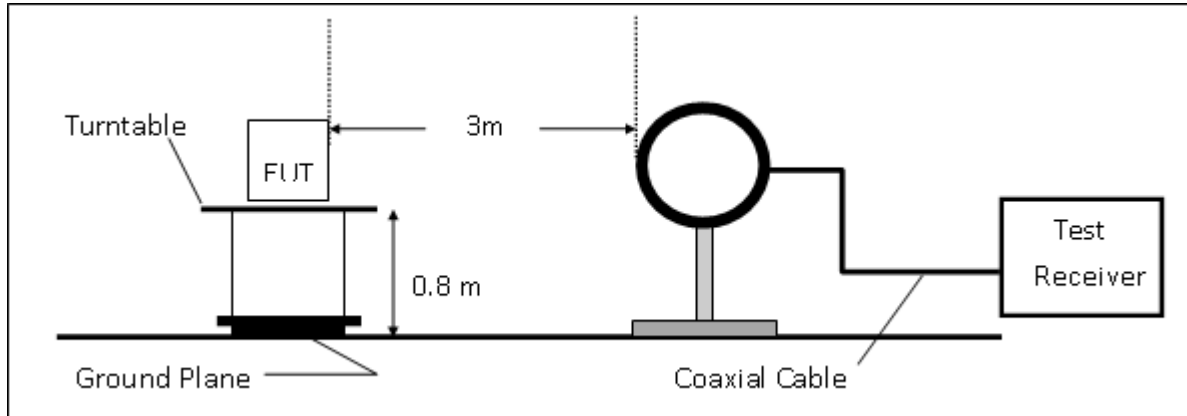
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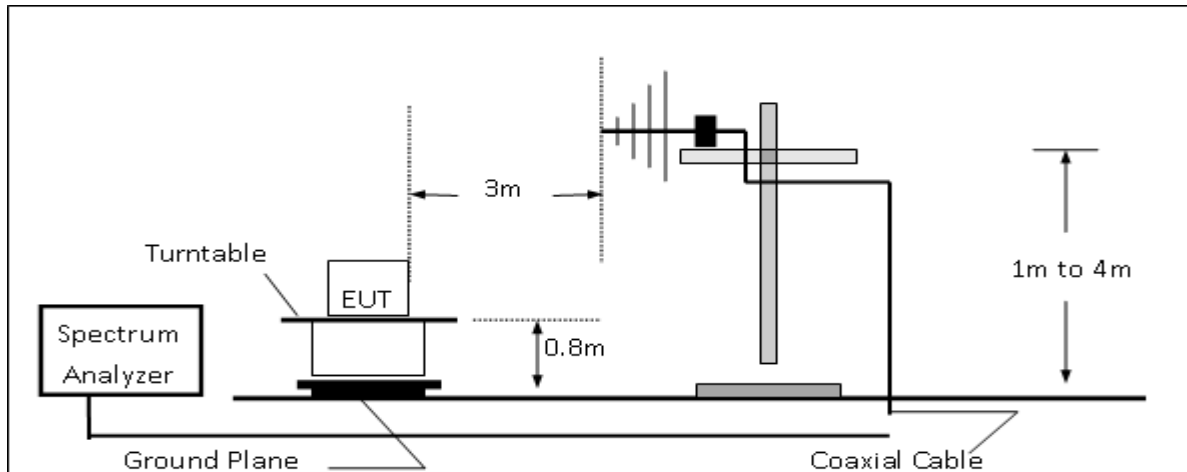
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## 11.3 Test SET-UP

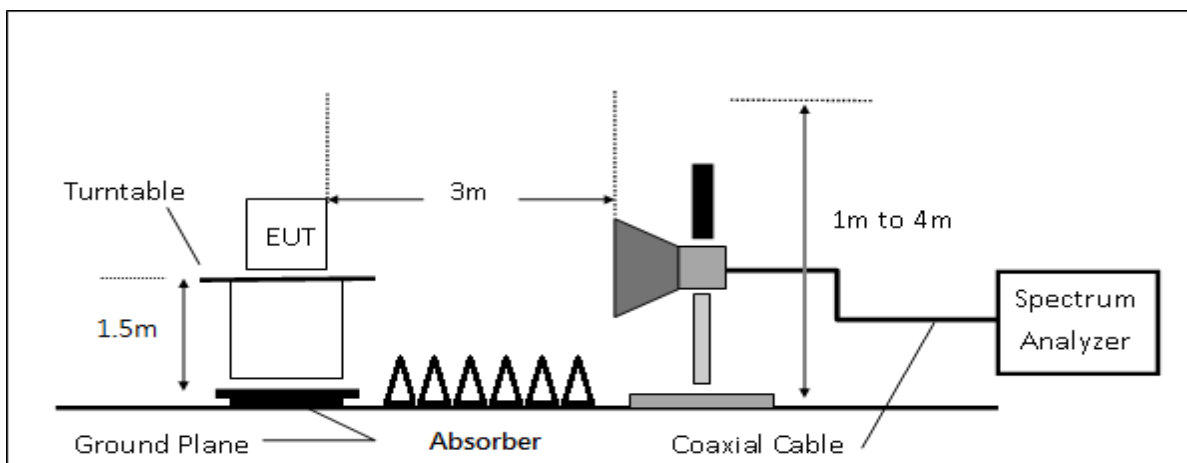
### (A) Radiated Emission Test Set-UP Frequency Below 30MHz.



### (B) Radiated Emission Test Set-UP, Frequency form 30MHz to 1000MHz



### (C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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## 11.4 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.

| Band        | Duty Cycle(%) | T(μs) | 1/T(kHz) | VBW Setting |
|-------------|---------------|-------|----------|-------------|
| 802.11a     | 95.07         | 2064  | 0.48     | 1kHz        |
| 802.11n_20  | 91.00         | 982   | 1.01     | 3kHz        |
| 802.11n_40  | 78.48         | 496   | 2.01     | 3kHz        |
| 802.11ac_80 | 76.65         | 631   | 1.58     | 3kHz        |

9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
11. Repeat above procedures until all frequency measured were complete.

## 11.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

|                           |                                            |
|---------------------------|--------------------------------------------|
| Where FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
| RA = Reading Amplitude    | AG = Amplifier Gain                        |
| AF = Antenna Factor       |                                            |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

### Note :

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

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

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### 11.6 Test Results of Radiated Spurious Emissions form 9 KHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

### 11.7 Measurement Result

Refer to next page for tabular data sheets.

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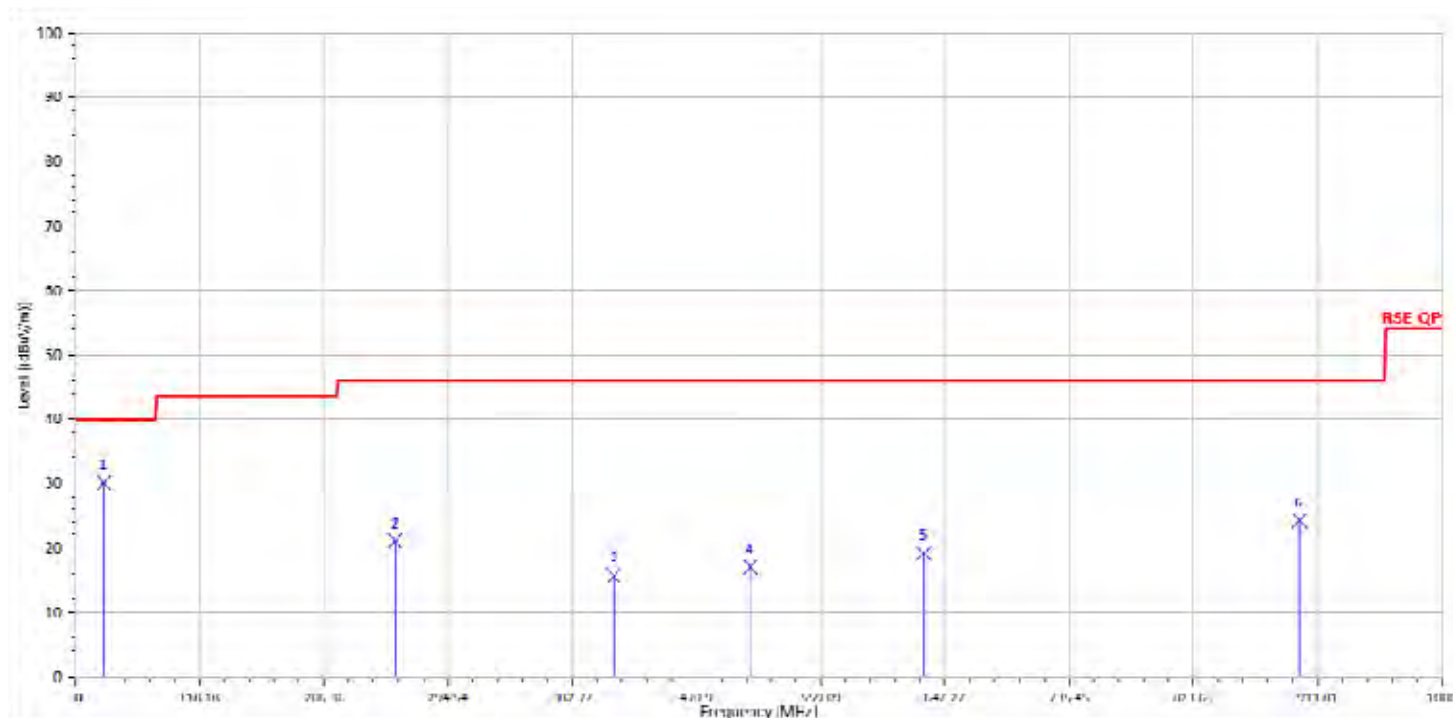
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# Radiated Spurious Emission Measurement Result

## Below 1GHz Worst-Case Data:

### 802.11a 5150~5250 MHz

|                         |           |                            |                |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode :        | 802.11aB1 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5220 MHz  | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH Mid | Test Engineer :            | Enzo           |
| EUT Pol. :              | H         | Measurement Antenna Pol. : | Vertical       |



| Freq.  | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|--------|---------|----------|---------------|--------|--------|--------|--------|
| MHz    | F/H/E/S | Mode     | Reading Level |        | FS     | @3m    |        |
|        |         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 50.37  | S       | Peak     | 53.80         | -23.77 | 30.03  | 40     | -9.97  |
| 256.98 | S       | Peak     | 44.34         | -23.26 | 21.07  | 46     | -24.93 |
| 412.18 | S       | Peak     | 33.72         | -18.05 | 15.67  | 46     | -30.33 |
| 509.18 | S       | Peak     | 33.95         | -16.95 | 17.00  | 46     | -29.00 |
| 632.37 | S       | Peak     | 33.24         | -14.14 | 19.10  | 46     | -26.90 |
| 899.12 | S       | Peak     | 34.36         | -10.07 | 24.29  | 46     | -21.71 |

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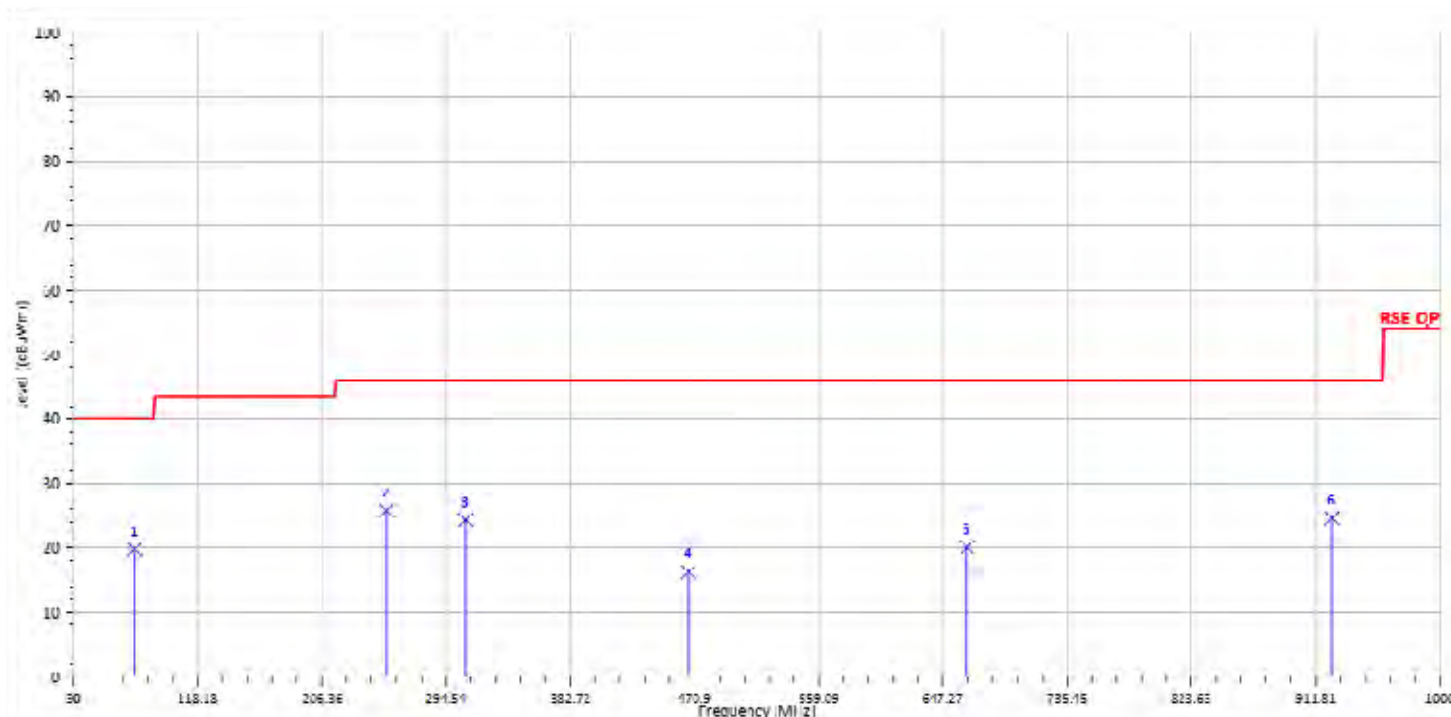
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Operation Mode : 802.11aB1      Test Date : 2017/9/27  
 Fundamental Frequency : 5220 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH Mid      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 73.65        | S               | Peak                         | 46.05                             | -26.26       | 19.79                  | 40                     | -20.21       |
| 252.13       | S               | Peak                         | 49.04                             | -23.26       | 25.78                  | 46                     | -20.22       |
| 308.39       | S               | Peak                         | 45.62                             | -21.30       | 24.32                  | 46                     | -21.68       |
| 466.50       | S               | Peak                         | 33.33                             | -17.10       | 16.24                  | 46                     | -29.76       |
| 664.38       | S               | Peak                         | 33.96                             | -13.89       | 20.07                  | 46                     | -25.93       |
| 923.37       | S               | Peak                         | 34.47                             | -9.89        | 24.58                  | 46                     | -21.42       |

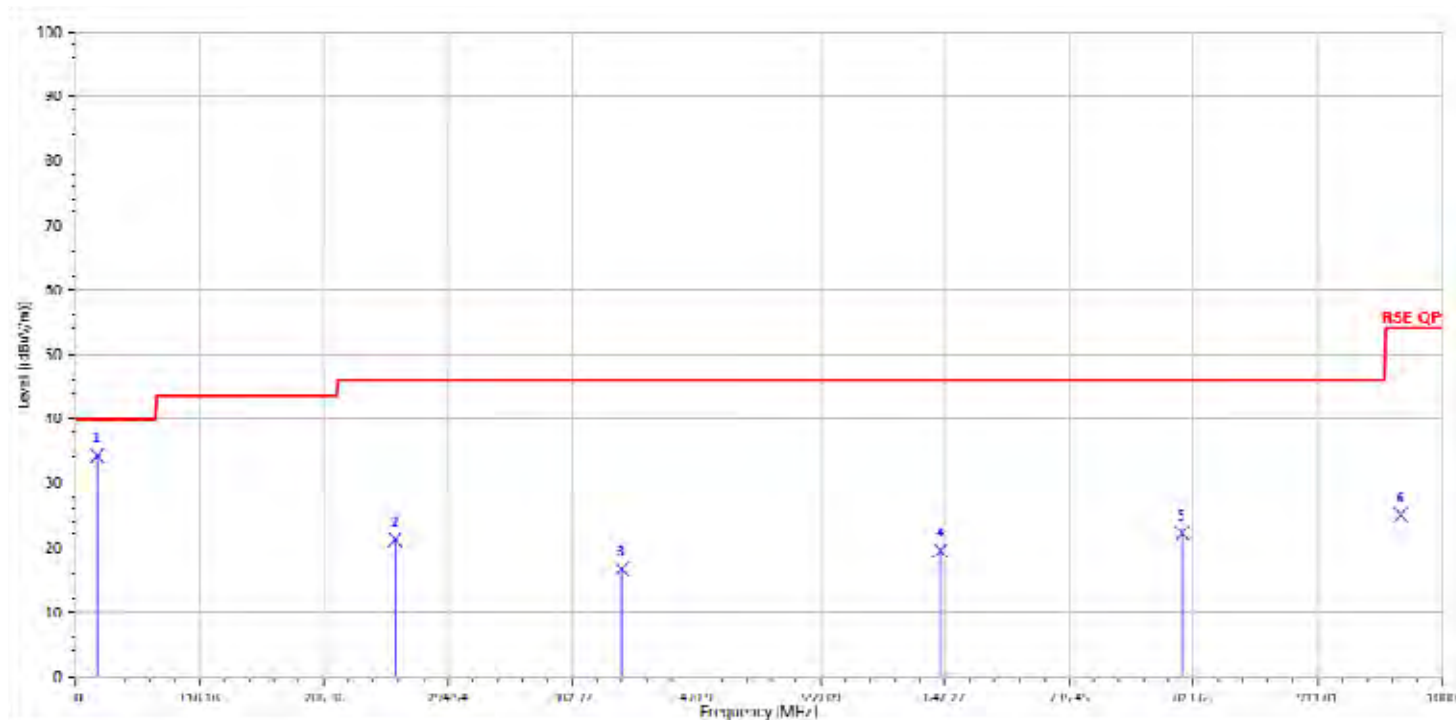
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## 802.11a 5250~5350 MHz

|                         |           |                            |                |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode :        | 802.11aB2 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5300 MHz  | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH Mid | Test Engineer :            | Enzo           |
| EUT Pol. :              | H         | Measurement Antenna Pol. : | Vertical       |



| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 45.52        | S               | Peak                         | 57.35                             | -23.16       | 34.19                  | 40                     | -5.81        |
| 256.98       | S               | Peak                         | 44.47                             | -23.26       | 21.21                  | 46                     | -24.79       |
| 418.00       | S               | Peak                         | 34.72                             | -18.06       | 16.66                  | 46                     | -29.34       |
| 644.01       | S               | Peak                         | 33.05                             | -13.55       | 19.51                  | 46                     | -26.49       |
| 815.70       | S               | Peak                         | 33.89                             | -11.66       | 22.23                  | 46                     | -23.77       |
| 970.90       | S               | Peak                         | 34.43                             | -9.35        | 25.08                  | 54                     | -28.92       |

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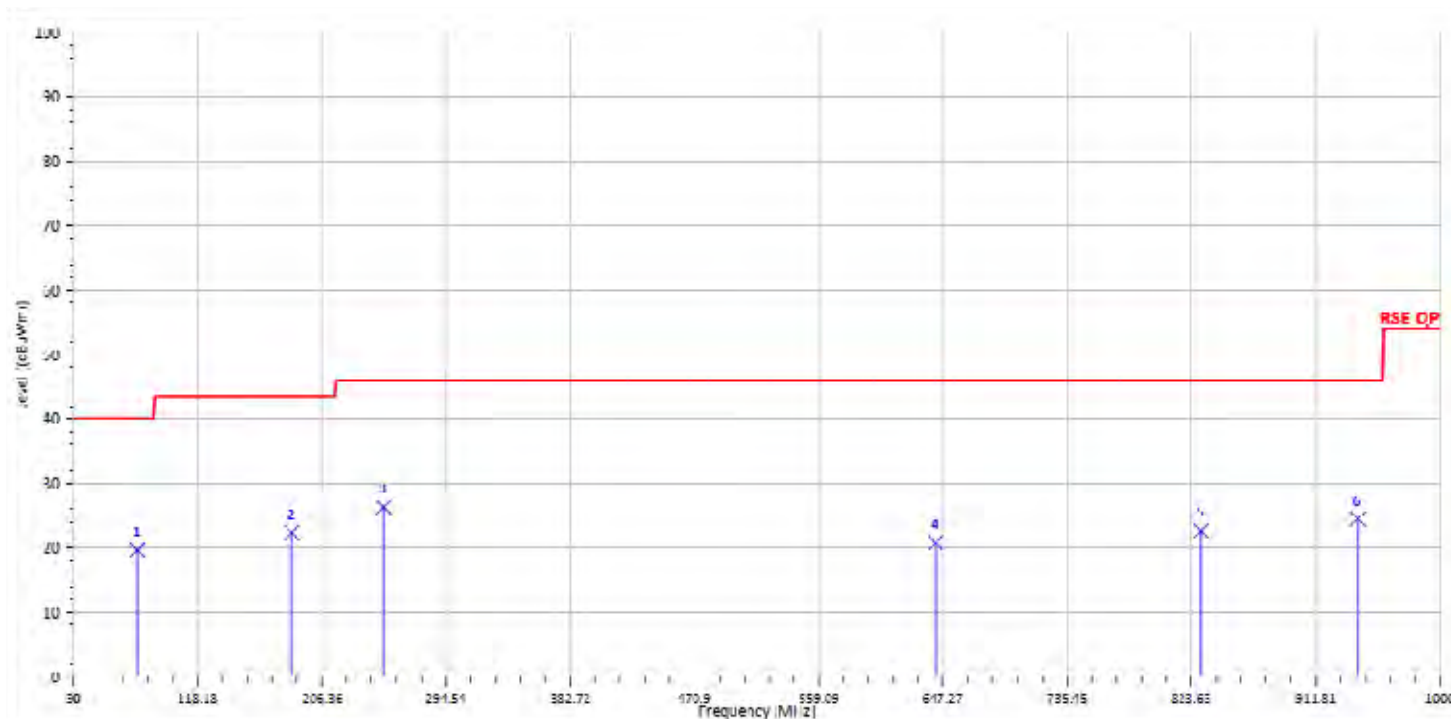
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Operation Mode : 802.11aB2      Test Date : 2017/9/27  
 Fundamental Frequency : 5300 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH Mid      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 75.59        | S               | Peak                         | 46.36                             | -26.75       | 19.61                  | 40                     | -20.39       |
| 185.20       | S               | Peak                         | 47.26                             | -24.88       | 22.39                  | 43.5                   | -21.11       |
| 250.19       | S               | Peak                         | 49.60                             | -23.26       | 26.33                  | 46                     | -19.67       |
| 642.07       | S               | Peak                         | 34.38                             | -13.60       | 20.77                  | 46                     | -25.23       |
| 830.25       | S               | Peak                         | 33.76                             | -11.12       | 22.64                  | 46                     | -23.36       |
| 941.80       | S               | Peak                         | 34.12                             | -9.63        | 24.49                  | 46                     | -21.51       |

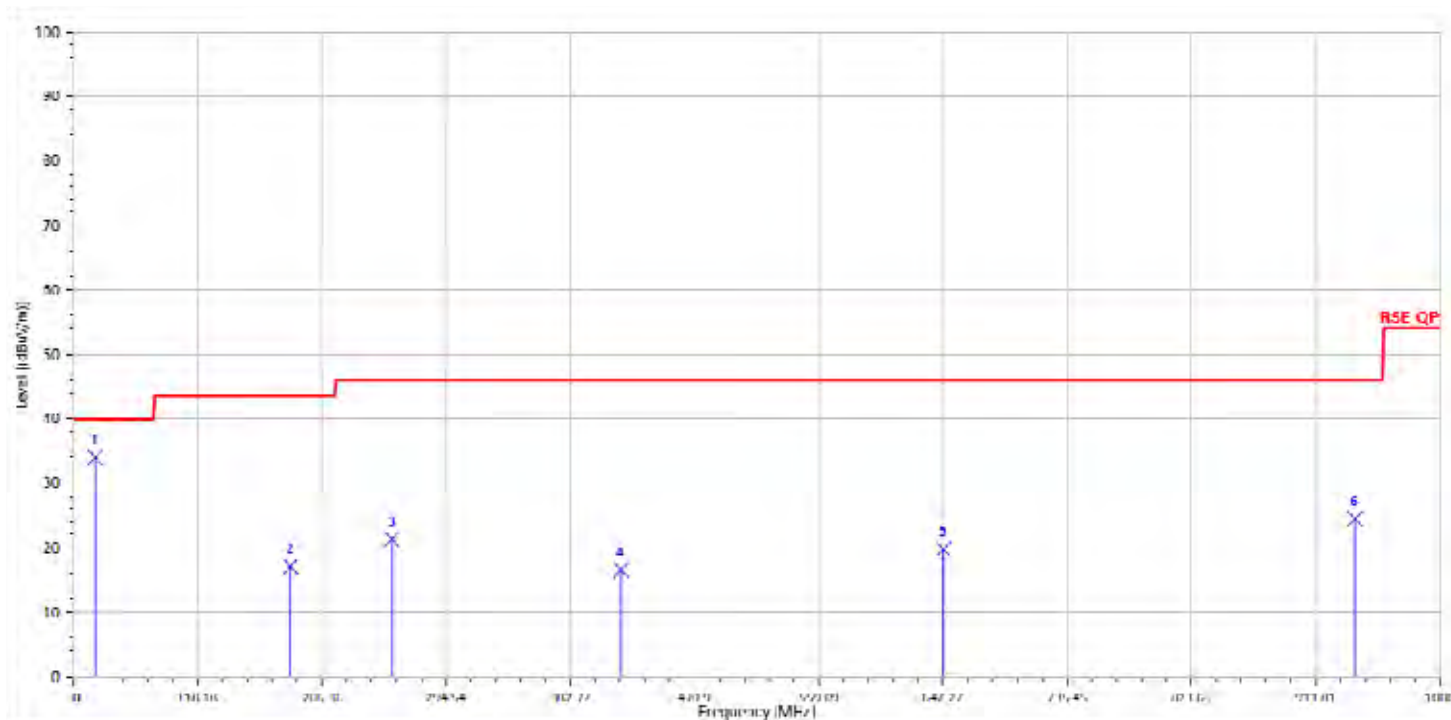
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## 802.11a, 5470~5725 MHz

|                         |           |                            |                |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode :        | 802.11aB3 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5580 MHz  | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH Mid | Test Engineer :            | Enzo           |
| EUT Pol. :              | H         | Measurement Antenna Pol. : | Vertical       |



| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 45.52        | S               | Peak                         | 57.10                             | -23.16       | 33.94                  | 40                     | -6.06        |
| 184.23       | S               | Peak                         | 41.86                             | -24.84       | 17.02                  | 43.5                   | -26.48       |
| 256.01       | S               | Peak                         | 44.55                             | -23.26       | 21.29                  | 46                     | -24.71       |
| 418.97       | S               | Peak                         | 34.58                             | -18.06       | 16.52                  | 46                     | -29.48       |
| 647.89       | S               | Peak                         | 33.21                             | -13.44       | 19.77                  | 46                     | -26.23       |
| 939.86       | S               | Peak                         | 34.07                             | -9.61        | 24.47                  | 46                     | -21.53       |

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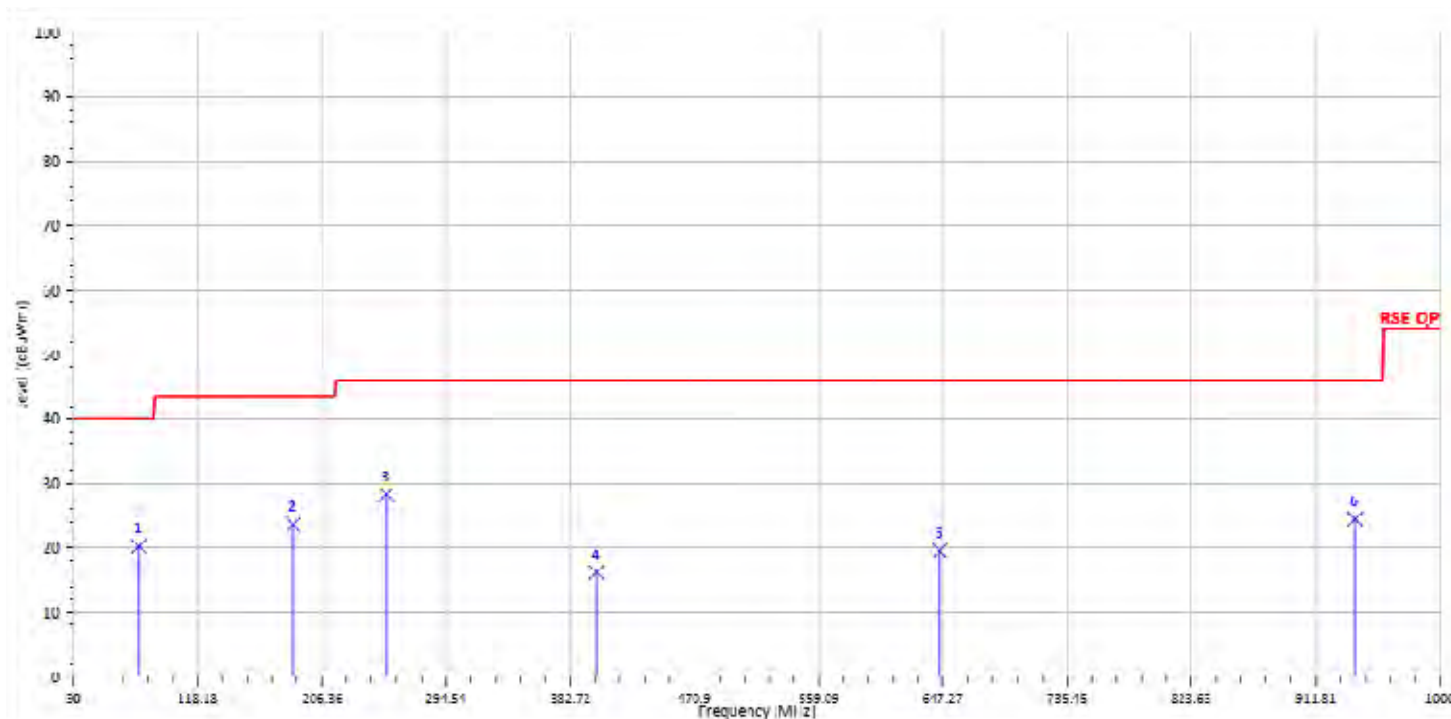
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 Operation Band : TX CH Mid      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 76.56        | S               | Peak                         | 47.19                             | -26.99       | 20.20                  | 40                     | -19.80       |
| 186.17       | S               | Peak                         | 48.51                             | -24.91       | 23.60                  | 43.5                   | -19.90       |
| 252.13       | S               | Peak                         | 51.52                             | -23.26       | 28.26                  | 46                     | -17.74       |
| 401.51       | S               | Peak                         | 34.80                             | -18.61       | 16.19                  | 46                     | -29.81       |
| 644.98       | S               | Peak                         | 33.05                             | -13.52       | 19.53                  | 46                     | -26.47       |
| 939.86       | S               | Peak                         | 34.03                             | -9.61        | 24.43                  | 46                     | -21.57       |

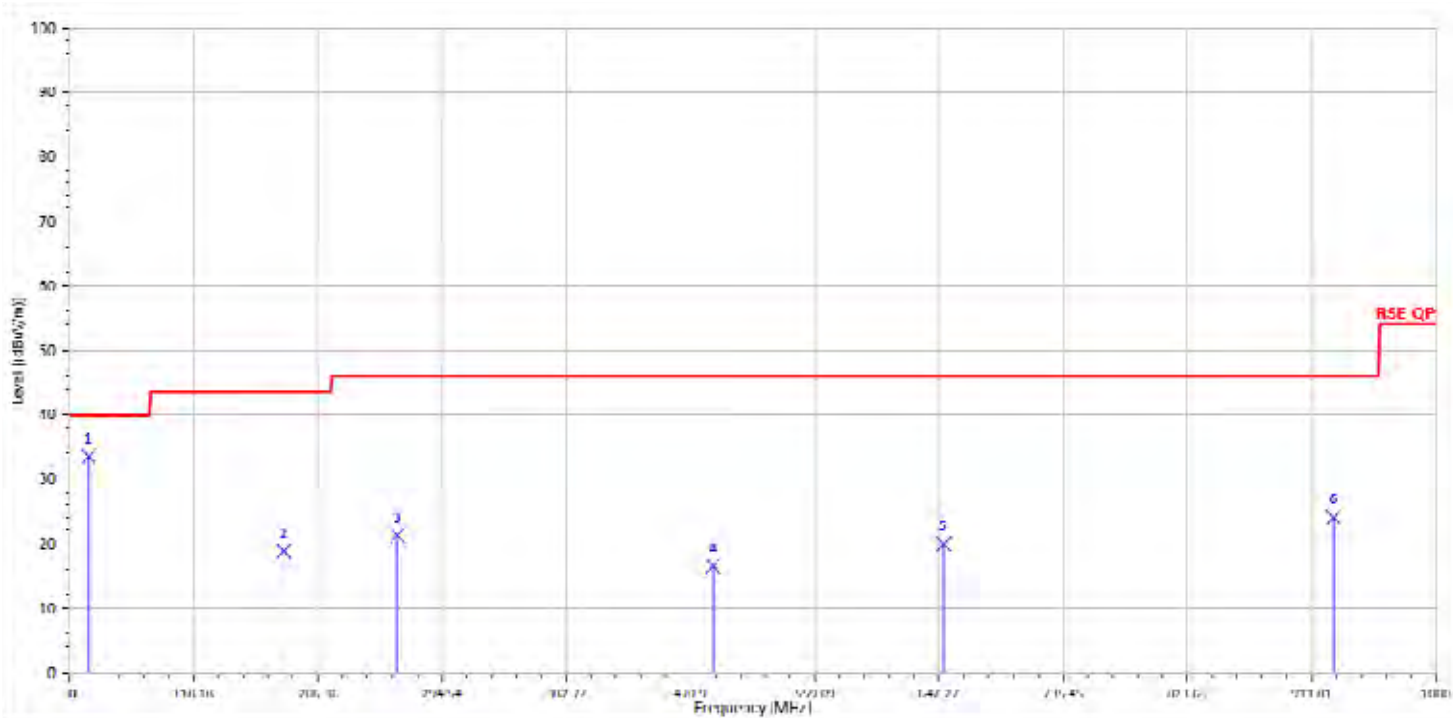
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## 802.11a, 5725~5850 MHz

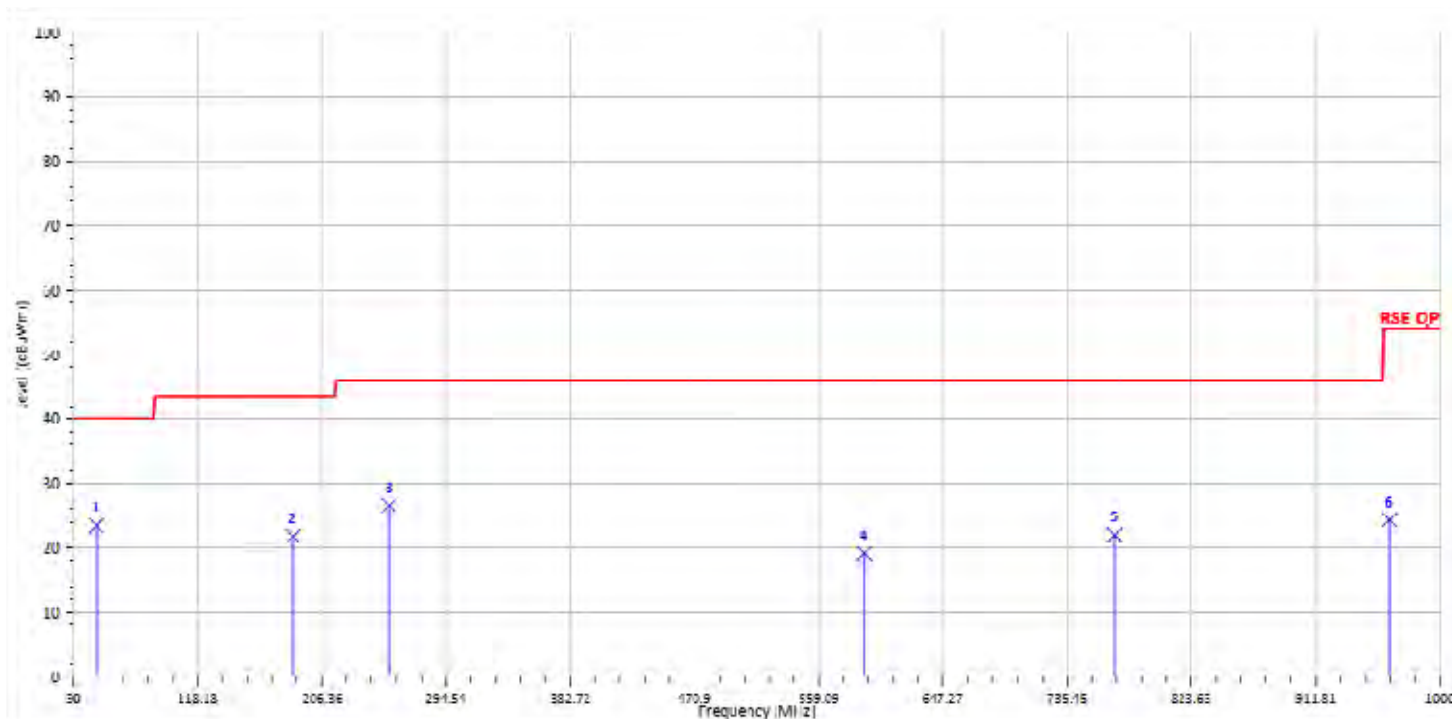
|                         |           |                            |                |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode :        | 802.11aB4 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5785 MHz  | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH Mid | Test Engineer :            | Enzo           |
| EUT Pol. :              | H         | Measurement Antenna Pol. : | Vertical       |



| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 43.58        | S               | Peak                         | 56.60                             | -23.10       | 33.50                  | 40                     | -6.50        |
| 182.29       | S               | Peak                         | 43.60                             | -24.78       | 18.82                  | 43.5                   | -24.68       |
| 262.80       | S               | Peak                         | 44.35                             | -23.07       | 21.28                  | 46                     | -24.72       |
| 486.87       | S               | Peak                         | 33.68                             | -17.17       | 16.51                  | 46                     | -29.49       |
| 650.80       | S               | Peak                         | 33.34                             | -13.40       | 19.94                  | 46                     | -26.06       |
| 927.25       | S               | Peak                         | 33.84                             | -9.77        | 24.06                  | 46                     | -21.94       |

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 Fundamental Frequency : 5785 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH Mid      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 46.49        | S               | Peak                         | 46.72                             | -23.28       | 23.44                  | 40                     | -16.56       |
| 186.17       | S               | Peak                         | 46.69                             | -24.91       | 21.78                  | 43.5                   | -21.72       |
| 254.07       | S               | Peak                         | 49.82                             | -23.26       | 26.56                  | 46                     | -19.44       |
| 591.63       | S               | Peak                         | 33.62                             | -14.49       | 19.12                  | 46                     | -26.88       |
| 769.14       | S               | Peak                         | 33.50                             | -11.52       | 21.98                  | 46                     | -24.02       |
| 964.11       | S               | Peak                         | 33.86                             | -9.53        | 24.33                  | 54                     | -29.67       |

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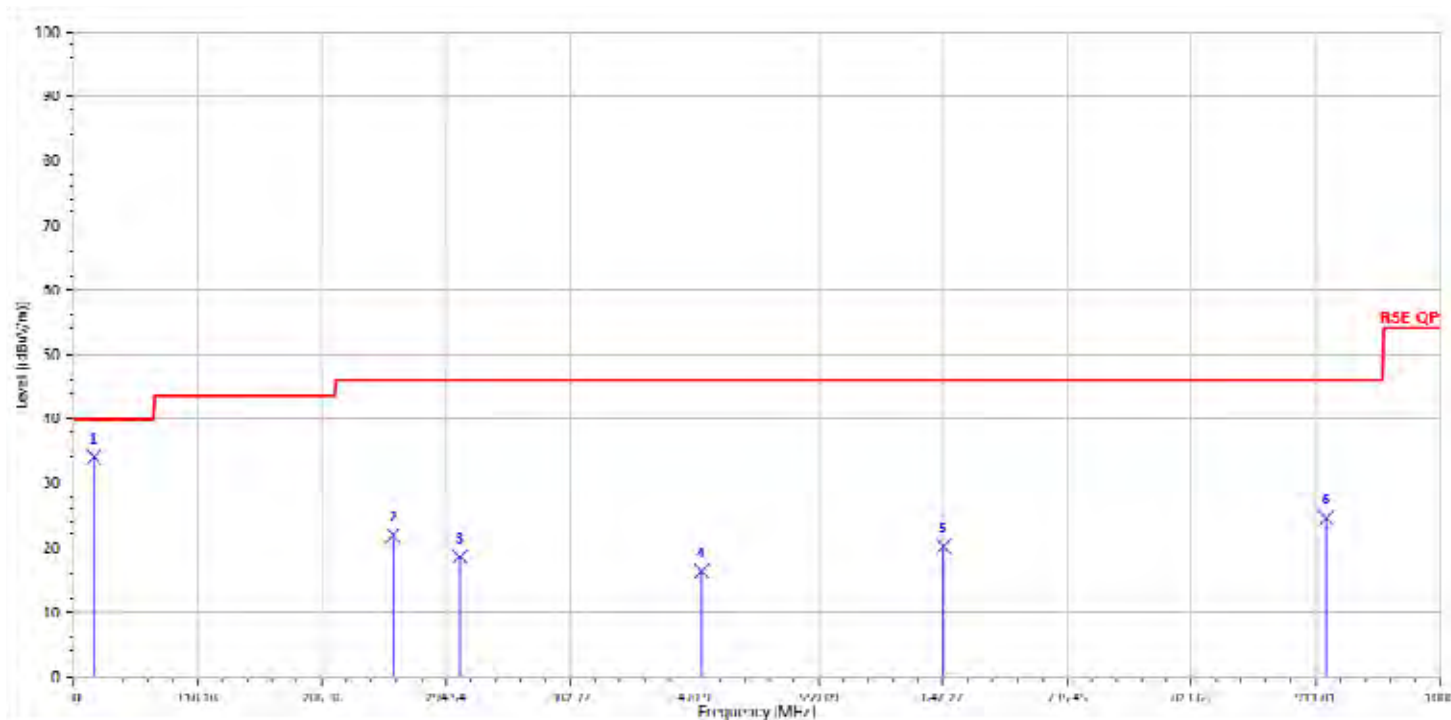
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## 802.11ac VHT80, 5150~5250 MHz

|                         |              |                            |                |
|-------------------------|--------------|----------------------------|----------------|
| Operation Mode :        | 802.11ac80B1 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5210 MHz     | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH Low    | Test Engineer :            | Enzo           |
| EUT Pol. :              | H            | Measurement Antenna Pol. : | Vertical       |



| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 44.55        | S               | Peak                         | 57.11                             | -23.09       | 34.01                  | 40                     | -5.99        |
| 256.98       | S               | Peak                         | 45.14                             | -23.26       | 21.88                  | 46                     | -24.12       |
| 304.51       | S               | Peak                         | 40.04                             | -21.46       | 18.58                  | 46                     | -27.42       |
| 476.20       | S               | Peak                         | 33.35                             | -17.03       | 16.33                  | 46                     | -29.67       |
| 647.89       | S               | Peak                         | 33.64                             | -13.44       | 20.20                  | 46                     | -25.80       |
| 919.49       | S               | Peak                         | 34.57                             | -10.00       | 24.57                  | 46                     | -21.43       |

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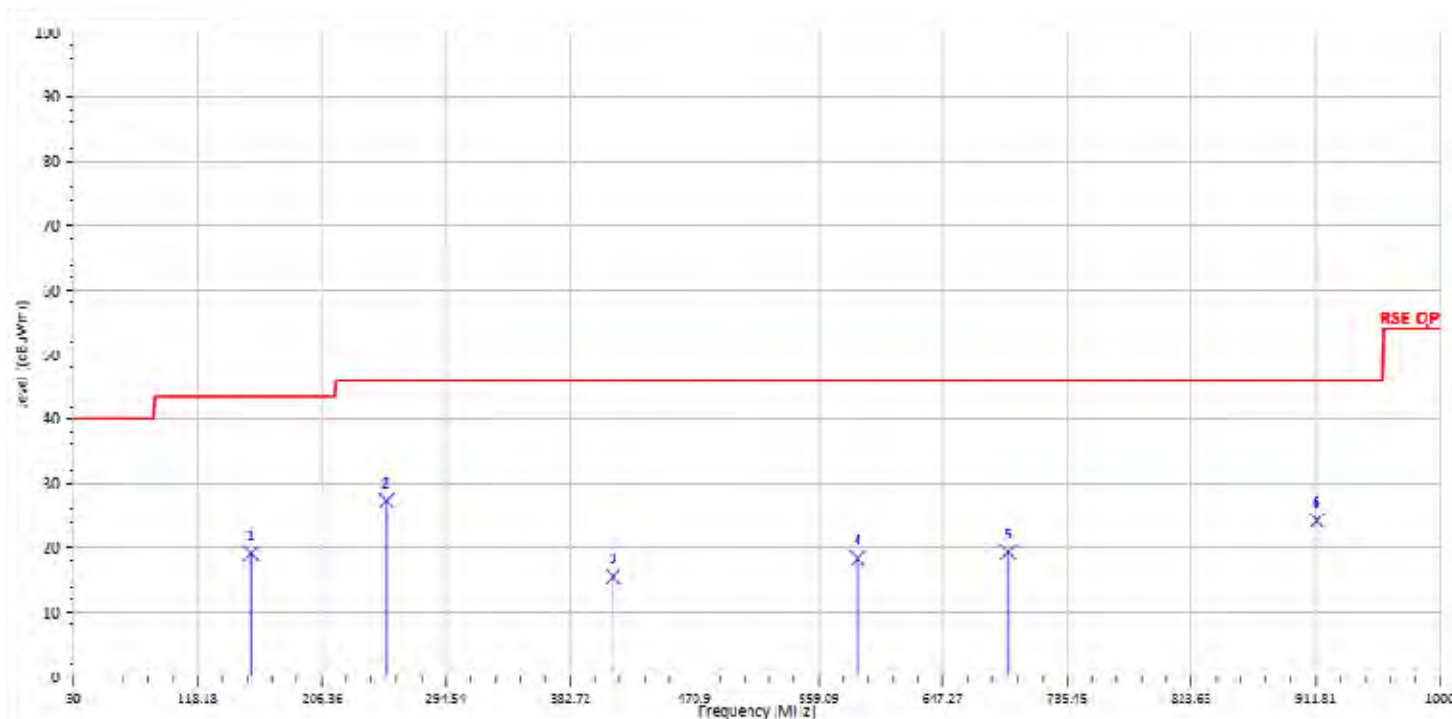
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Operation Mode : 802.11ac80B1      Test Date : 2017/9/27  
 Fundamental Frequency : 5210 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH Low      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 156.10       | S               | Peak                         | 41.29                             | -22.15       | 19.14                  | 43.5                   | -24.36       |
| 252.13       | S               | Peak                         | 50.55                             | -23.26       | 27.29                  | 46                     | -18.71       |
| 413.15       | S               | Peak                         | 33.52                             | -18.05       | 15.47                  | 46                     | -30.53       |
| 586.78       | S               | Peak                         | 32.84                             | -14.47       | 18.37                  | 46                     | -27.63       |
| 693.48       | S               | Peak                         | 32.63                             | -13.31       | 19.32                  | 46                     | -26.68       |
| 912.70       | S               | Peak                         | 34.29                             | -10.07       | 24.22                  | 46                     | -21.78       |

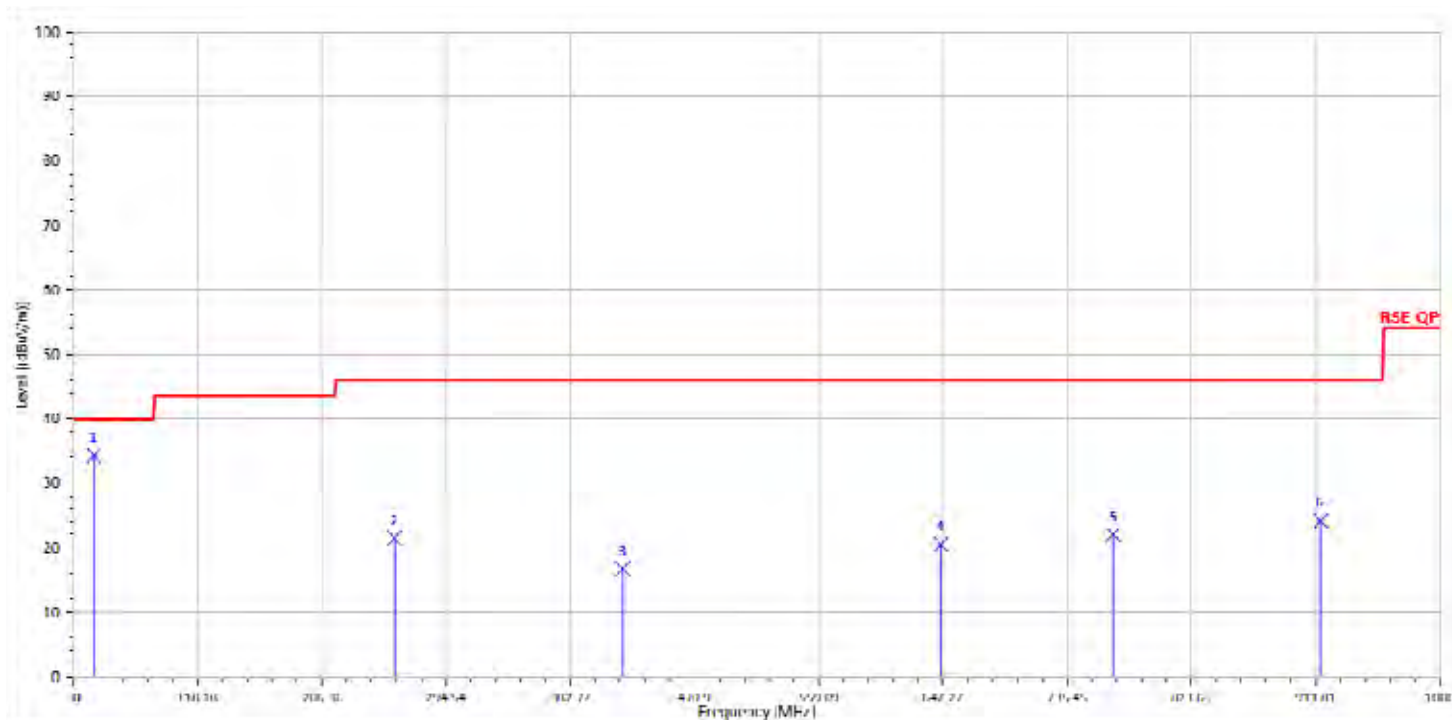
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## 802.11ac VHT80, 5250~5350 MHz

|                         |              |                            |                |
|-------------------------|--------------|----------------------------|----------------|
| Operation Mode :        | 802.11ac80B2 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5290 MHz     | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH High   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H            | Measurement Antenna Pol. : | Vertical       |



| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 44.55        | S               | Peak                         | 57.32                             | -23.09       | 34.23                  | 40                     | -5.77        |
| 257.95       | S               | Peak                         | 44.69                             | -23.26       | 21.43                  | 46                     | -24.57       |
| 419.94       | S               | Peak                         | 34.76                             | -18.06       | 16.69                  | 46                     | -29.31       |
| 645.95       | S               | Peak                         | 33.96                             | -13.49       | 20.47                  | 46                     | -25.53       |
| 768.17       | S               | Peak                         | 33.49                             | -11.51       | 21.98                  | 46                     | -24.02       |
| 915.61       | S               | Peak                         | 34.20                             | -10.04       | 24.16                  | 46                     | -21.84       |

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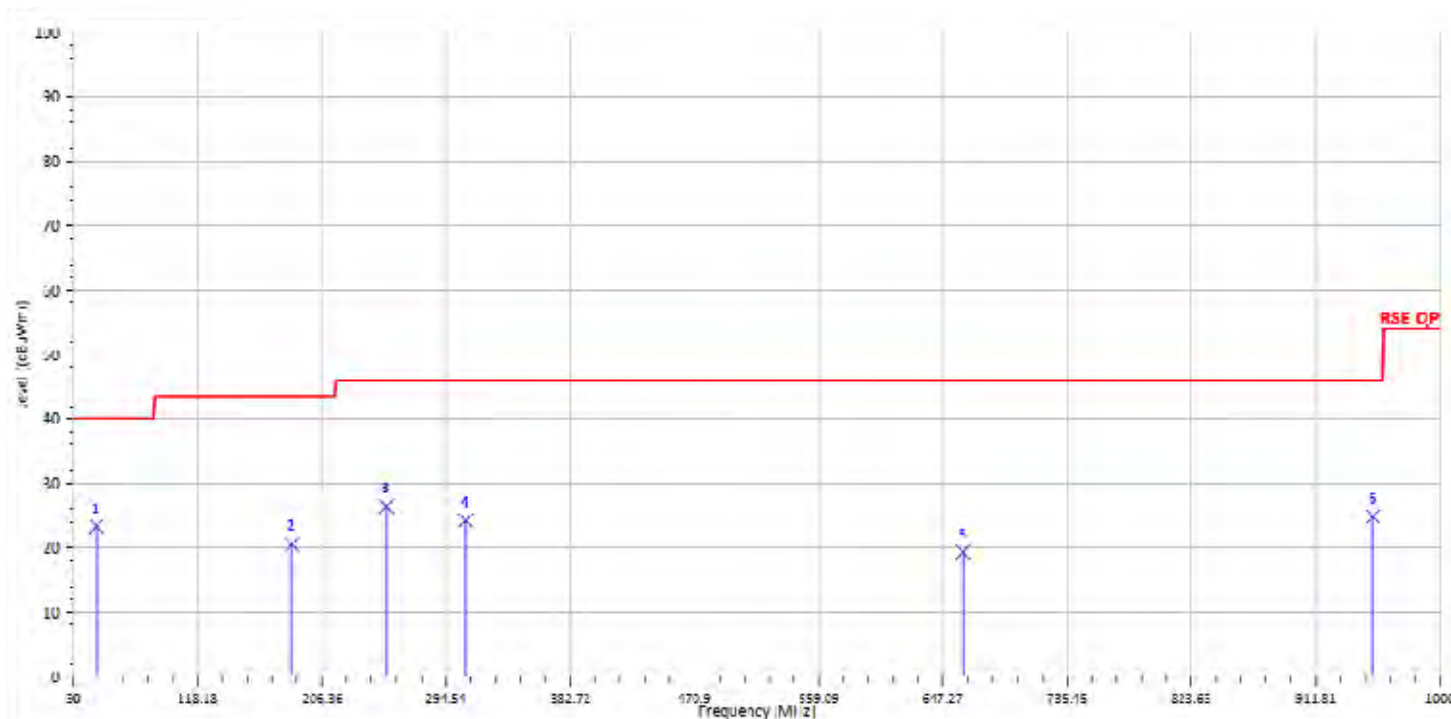
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|                         |              |                            |                |
|-------------------------|--------------|----------------------------|----------------|
| Operation Mode :        | 802.11ac80B2 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5290 MHz     | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH High   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H            | Measurement Antenna Pol. : | Horizontal     |



| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 46.49        | S               | Peak                         | 46.61                             | -23.28       | 23.33                  | 40                     | -16.67       |
| 185.20       | S               | Peak                         | 45.44                             | -24.88       | 20.56                  | 43.5                   | -22.94       |
| 252.13       | S               | Peak                         | 49.69                             | -23.26       | 26.43                  | 46                     | -19.57       |
| 308.39       | S               | Peak                         | 45.54                             | -21.30       | 24.24                  | 46                     | -21.76       |
| 661.47       | S               | Peak                         | 33.04                             | -13.72       | 19.32                  | 46                     | -26.68       |
| 952.47       | S               | Peak                         | 34.58                             | -9.72        | 24.86                  | 46                     | -21.14       |

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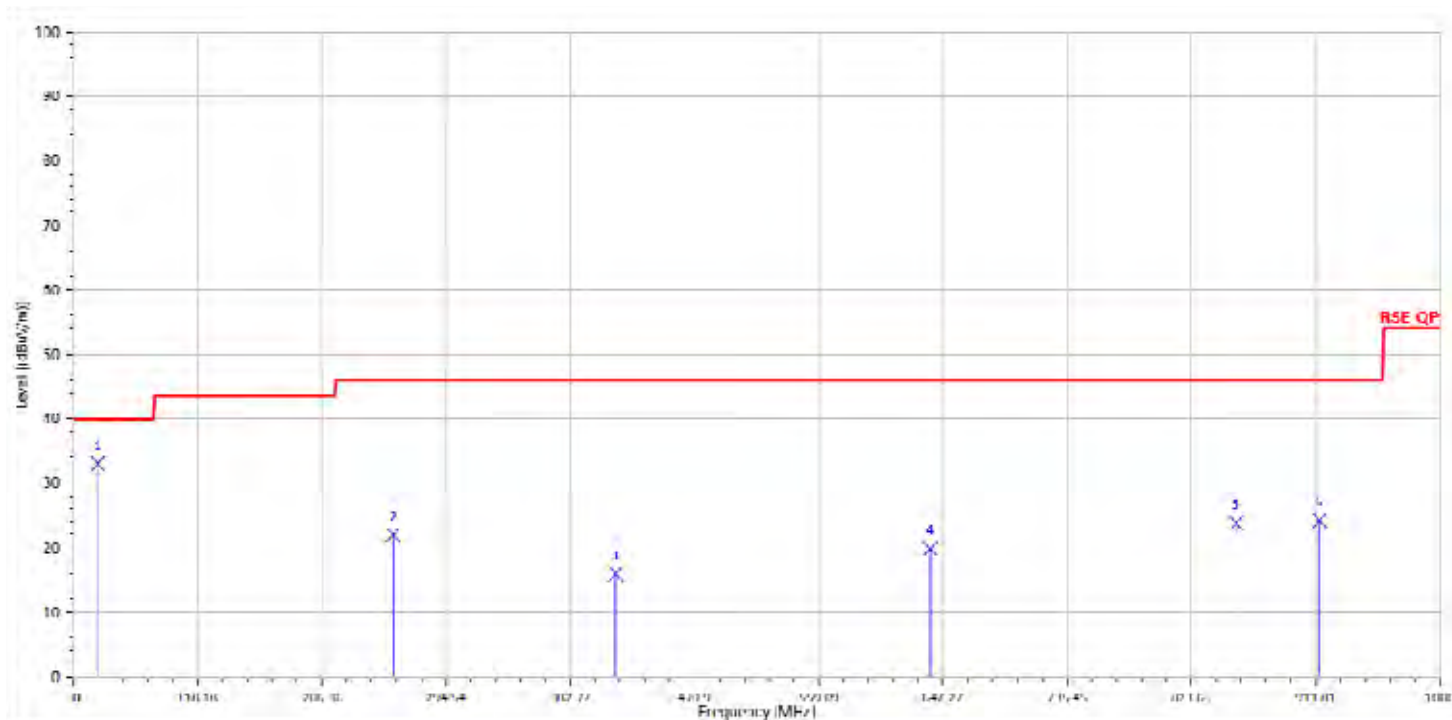
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## 802.11ac VHT80, 5470~5725 MHz

|                         |              |                            |                |
|-------------------------|--------------|----------------------------|----------------|
| Operation Mode :        | 802.11ac80B3 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5610 MHz     | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH Mid    | Test Engineer :            | Enzo           |
| EUT Pol. :              | H            | Measurement Antenna Pol. : | Vertical       |



| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 47.46        | S               | Peak                         | 56.43                             | -23.41       | 33.02                  | 40                     | -6.98        |
| 256.98       | S               | Peak                         | 45.21                             | -23.26       | 21.94                  | 46                     | -24.06       |
| 415.09       | S               | Peak                         | 34.01                             | -18.05       | 15.96                  | 46                     | -30.04       |
| 638.19       | S               | Peak                         | 33.62                             | -13.78       | 19.84                  | 46                     | -26.16       |
| 855.47       | S               | Peak                         | 34.97                             | -11.17       | 23.80                  | 46                     | -22.20       |
| 914.64       | S               | Peak                         | 34.26                             | -10.05       | 24.21                  | 46                     | -21.79       |

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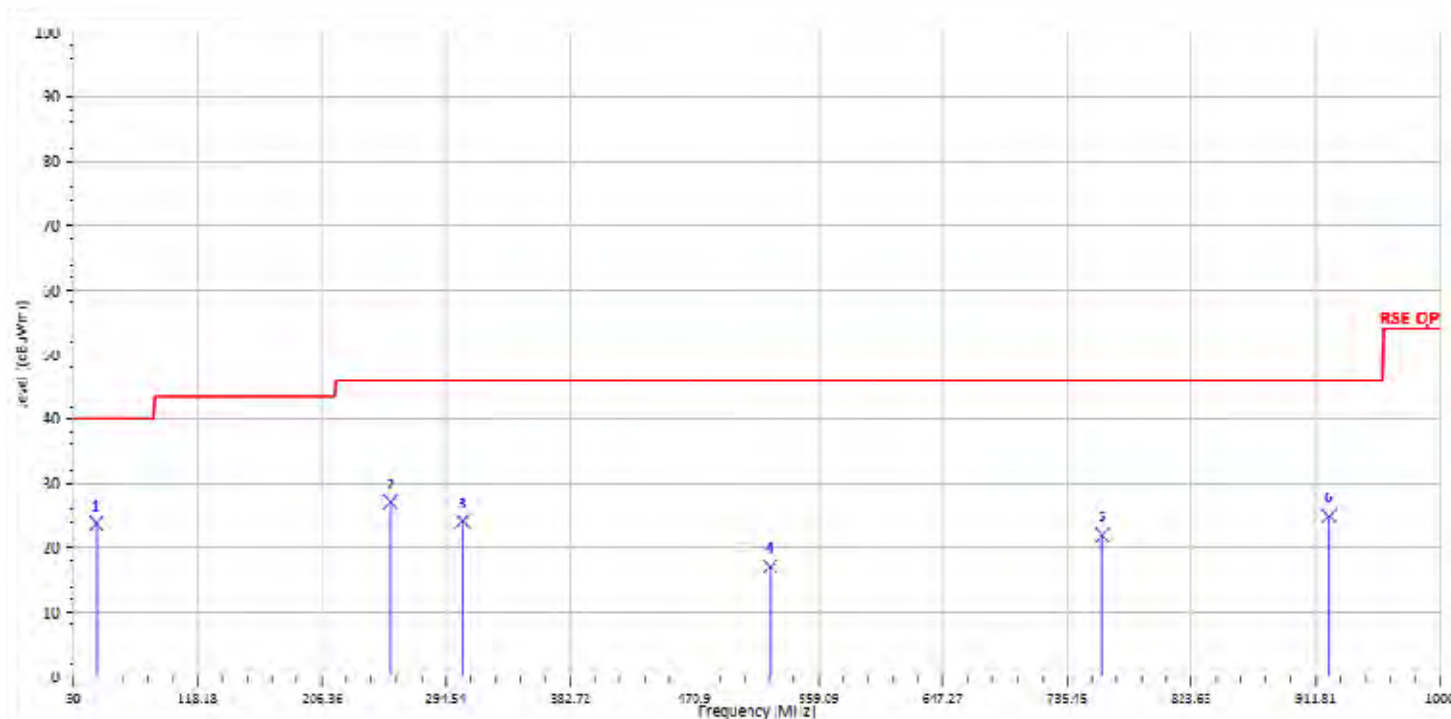
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Operation Mode : 802.11ac80B3 Test Date : 2017/9/27  
Fundamental Frequency : 5610 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : TX CH Mid Test Engineer : Enzo  
EUT Pol. : H Measurement Antenna Pol. : Horizontal



| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 46.49        | S               | Peak                         | 47.05                             | -23.28       | 23.77                  | 40                     | -16.23       |
| 255.04       | S               | Peak                         | 50.39                             | -23.26       | 27.13                  | 46                     | -18.87       |
| 306.45       | S               | Peak                         | 45.50                             | -21.38       | 24.12                  | 46                     | -21.88       |
| 524.70       | S               | Peak                         | 33.44                             | -16.35       | 17.09                  | 46                     | -28.91       |
| 760.41       | S               | Peak                         | 33.44                             | -11.42       | 22.01                  | 46                     | -23.99       |
| 921.43       | S               | Peak                         | 34.89                             | -9.95        | 24.94                  | 46                     | -21.06       |

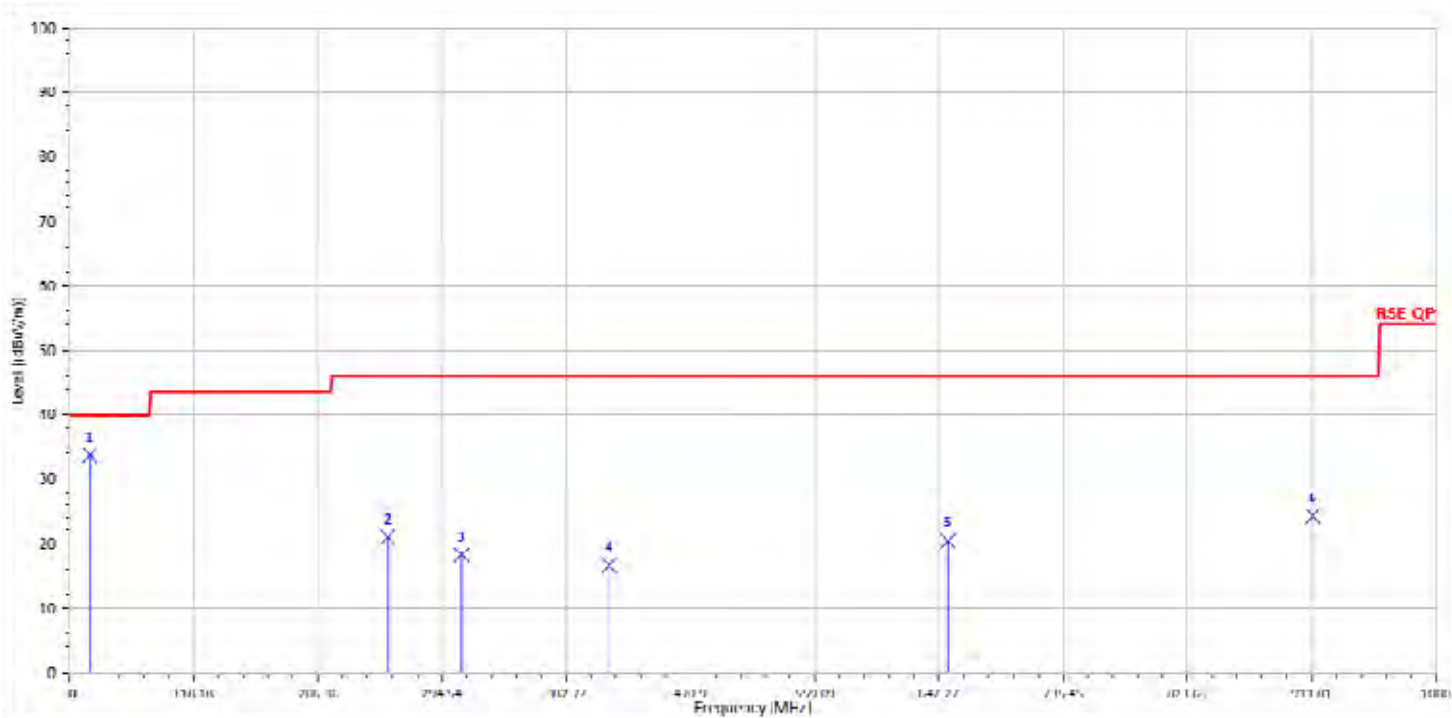
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## 802.11ac VHT80, 5725~5850 MHz

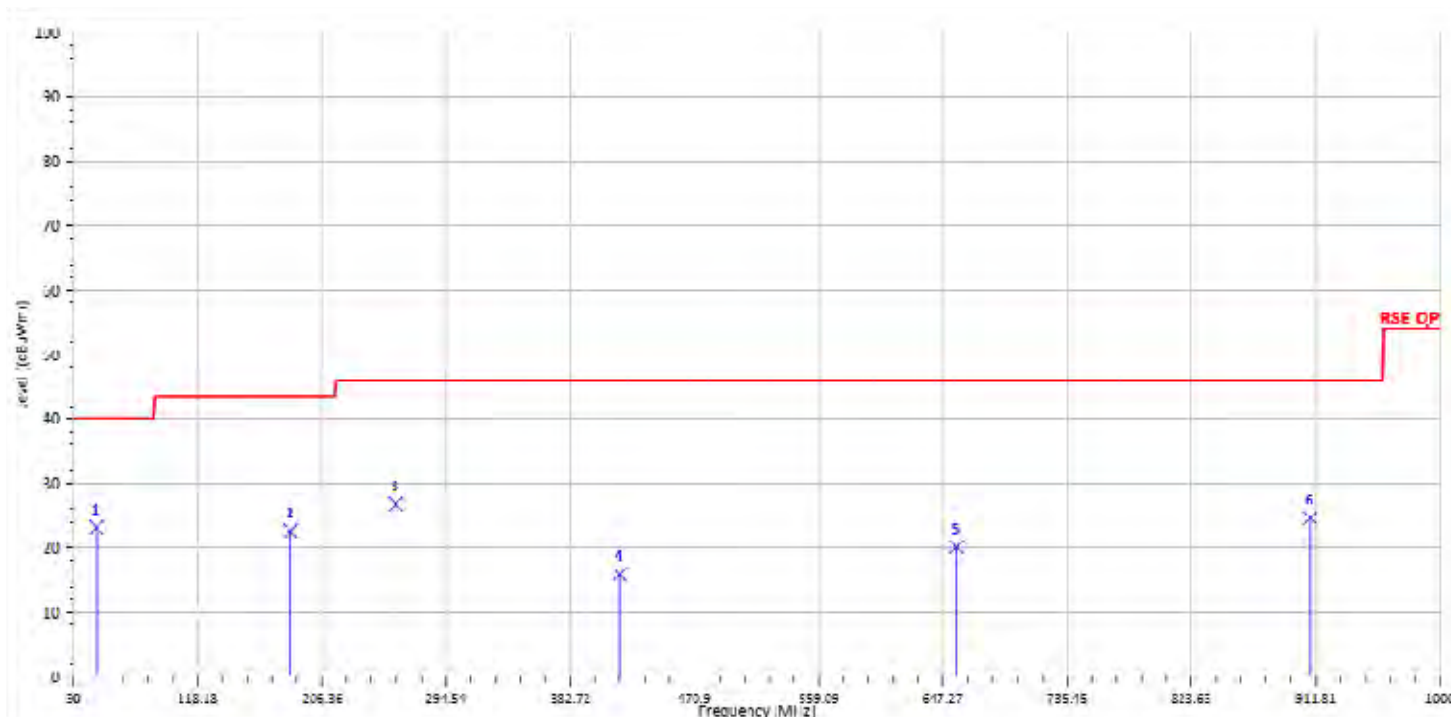
|                         |              |                            |                |
|-------------------------|--------------|----------------------------|----------------|
| Operation Mode :        | 802.11ac80B4 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5775 MHz     | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH Low    | Test Engineer :            | Enzo           |
| EUT Pol. :              | H            | Measurement Antenna Pol. : | Vertical       |



| Freq.  | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|--------|---------|----------|---------------|--------|--------|--------|--------|
| MHz    | F/H/E/S | Mode     | Reading Level |        | FS     | @3m    |        |
|        |         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 44.55  | S       | Peak     | 56.78         | -23.09 | 33.69  | 40     | -6.31  |
| 256.01 | S       | Peak     | 44.25         | -23.26 | 20.99  | 46     | -25.01 |
| 308.39 | S       | Peak     | 39.54         | -21.30 | 18.23  | 46     | -27.77 |
| 413.15 | S       | Peak     | 34.66         | -18.05 | 16.61  | 46     | -29.39 |
| 653.71 | S       | Peak     | 33.87         | -13.47 | 20.40  | 46     | -25.60 |
| 912.70 | S       | Peak     | 34.38         | -10.07 | 24.31  | 46     | -21.69 |

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 Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH Low Test Engineer : Enzo  
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 46.49        | S               | Peak                         | 46.45                             | -23.28       | 23.17                  | 40                     | -16.83       |
| 184.23       | S               | Peak                         | 47.44                             | -24.84       | 22.60                  | 43.5                   | -20.90       |
| 258.92       | S               | Peak                         | 50.04                             | -23.26       | 26.78                  | 46                     | -19.22       |
| 418.00       | S               | Peak                         | 33.92                             | -18.06       | 15.86                  | 46                     | -30.14       |
| 656.62       | S               | Peak                         | 33.65                             | -13.55       | 20.10                  | 46                     | -25.90       |
| 907.85       | S               | Peak                         | 34.74                             | -10.08       | 24.65                  | 46                     | -21.35       |

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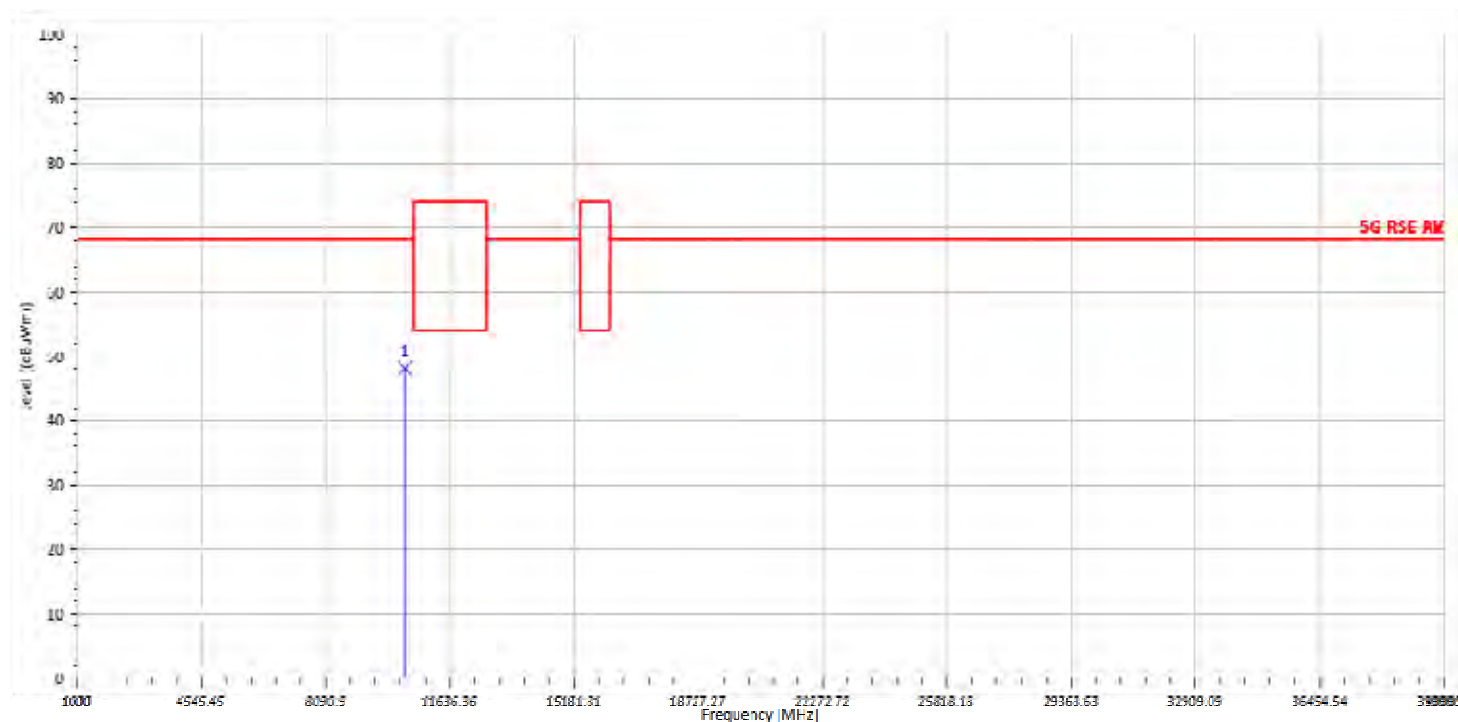
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## Above 1GHz Worst-Case Data:

### Radiated Spurious Emission Measurement Result 802.11a, 5150~5250 MHz

|                         |           |                            |                |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode :        | 802.11aB1 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5180 MHz  | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH LOW | Test Engineer :            | Enzo           |
| EUT Pol. :              | H         | Measurement Antenna Pol. : | Vertical       |



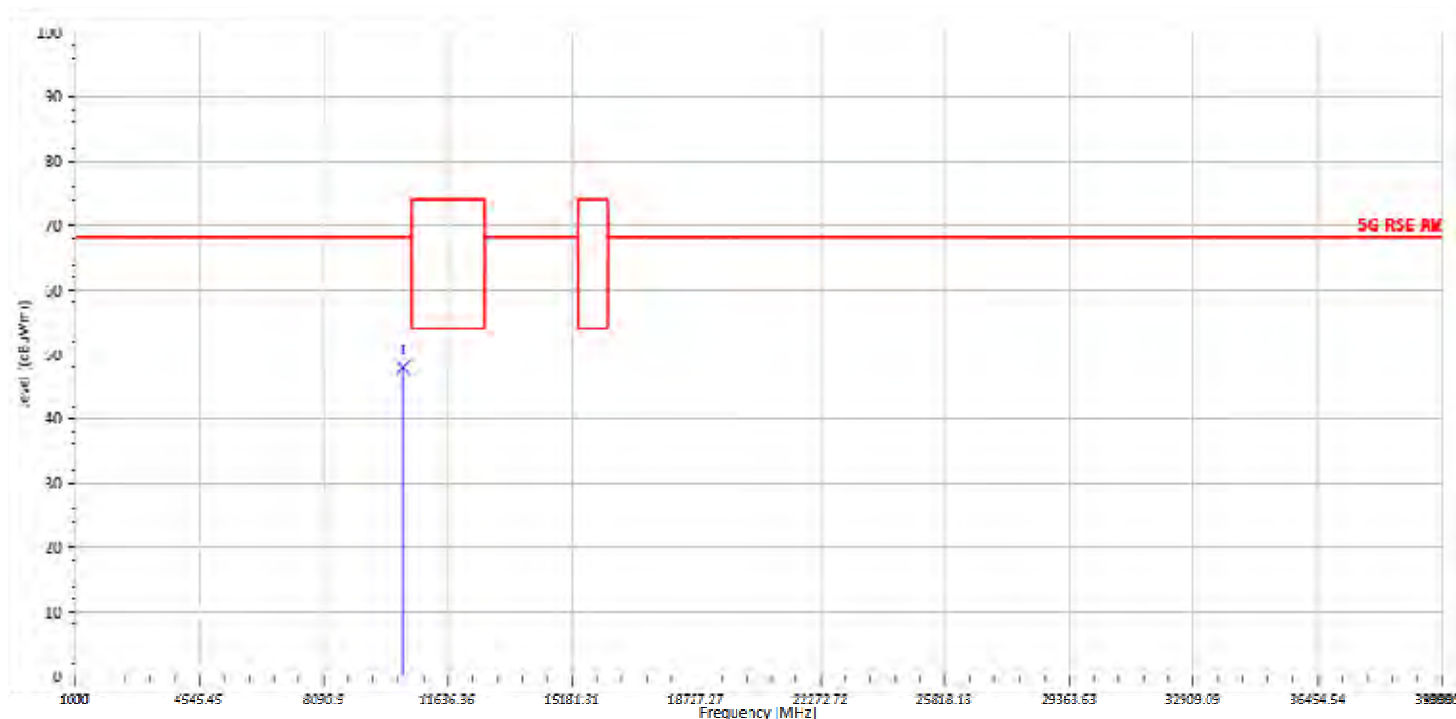
| Freq.    | Note    | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz      | F/H/E/S | PK/QP/AV      | dBμV                   | dB     | dBμV/m    | dBμV/m    | dB     |
| 10360.00 | H       | Peak          | 38.90                  | 9.27   | 48.17     | 68.3      | -20.13 |

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|                         |           |                            |                |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode :        | 802.11aB1 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5180 MHz  | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH LOW | Test Engineer :            | Enzo           |
| EUT Pol. :              | H         | Measurement Antenna Pol. : | Horizontal     |



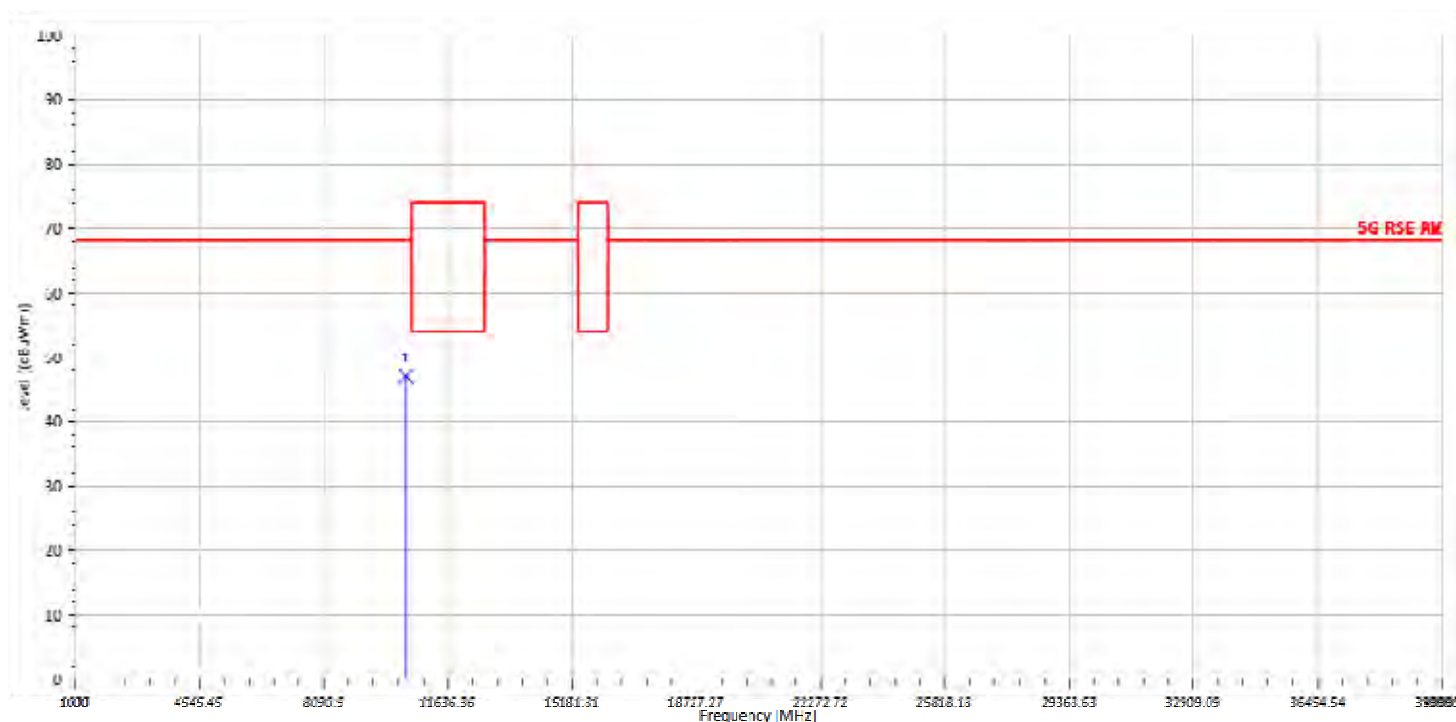
| Freq.    | Note    | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz      | F/H/E/S | PK/QP/AV      | dBμV                   | dB     | dBμV/m    | dBμV/m    | dB     |
| 10360.00 | H       | Peak          | 38.73                  | 9.27   | 48.00     | 68.3      | -20.30 |

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Operation Mode : 802.11aB1      Test Date : 2017/9/27  
 Fundamental Frequency : 5220 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH MID      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Vertical



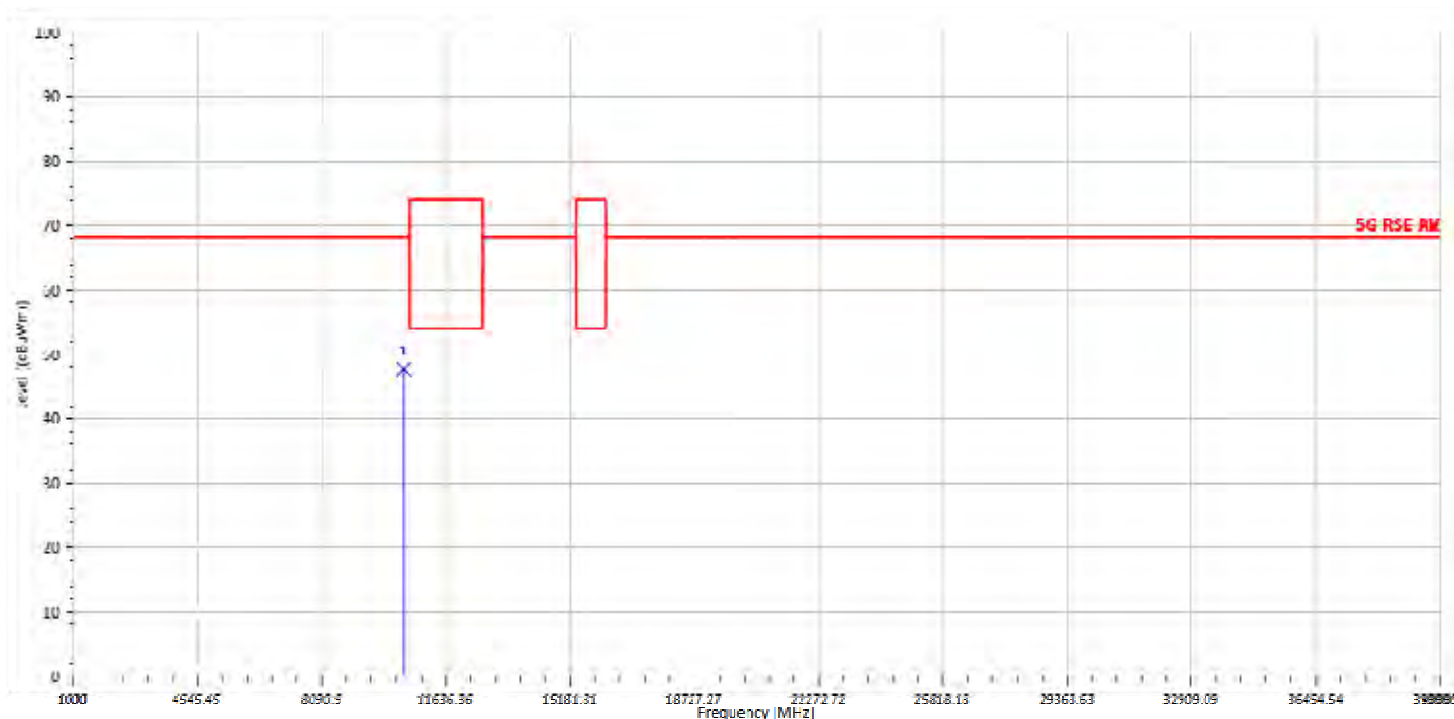
| Freq.    | Note    | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz      | F/H/E/S | PK/QP/AV      | dBμV                   | dB     | dBμV/m    | dBμV/m    | dB     |
| 10440.00 | H       | Peak          | 37.59                  | 9.57   | 47.16     | 68.3      | -21.14 |

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Operation Mode : 802.11aB1      Test Date : 2017/9/27  
 Fundamental Frequency : 5220 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH MID      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



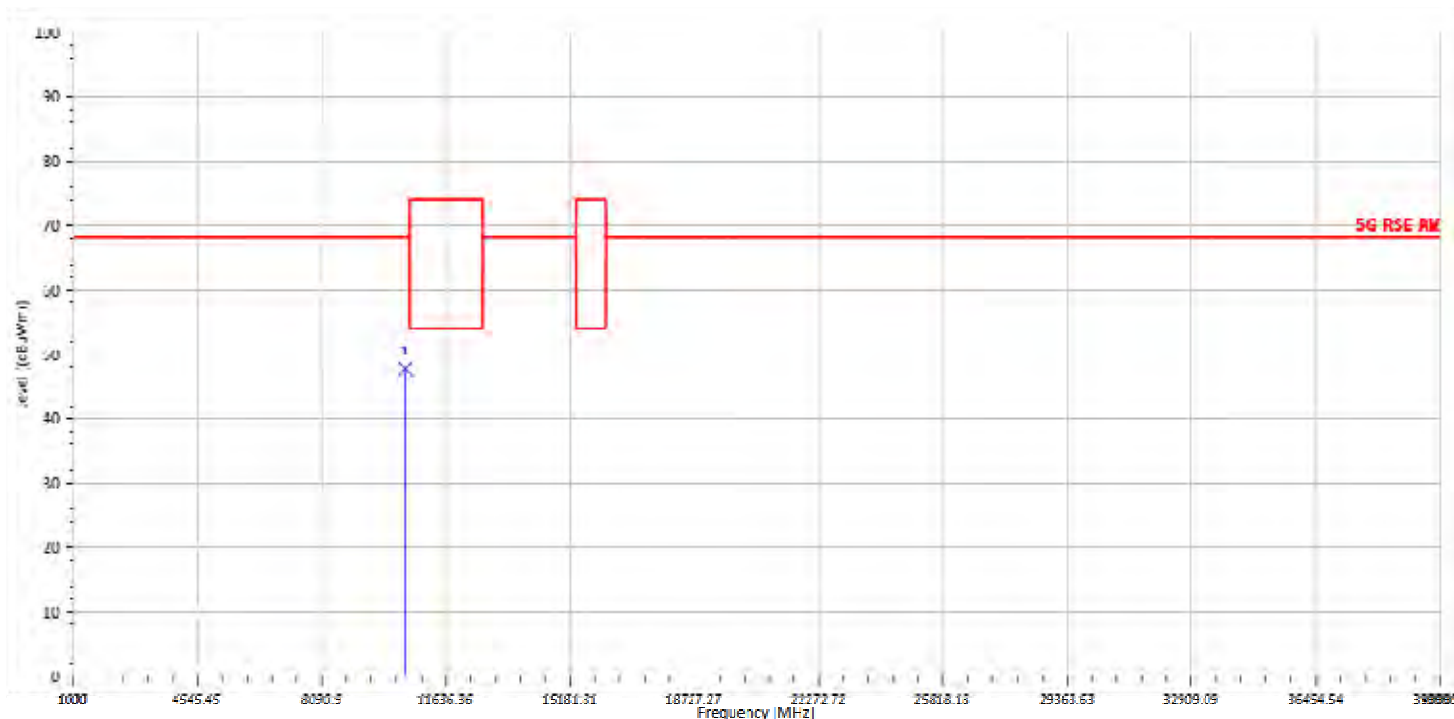
| Freq.    | Note    | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz      | F/H/E/S | PK/QP/AV      | dBμV                   | dB     | dBμV/m    | dBμV/m    | dB     |
| 10440.00 | H       | Peak          | 38.14                  | 9.57   | 47.71     | 68.3      | -20.59 |

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|                         |            |                            |                |
|-------------------------|------------|----------------------------|----------------|
| Operation Mode :        | 802.11aB1  | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5240 MHz   | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH HIGH | Test Engineer :            | Enzo           |
| EUT Pol. :              | H          | Measurement Antenna Pol. : | Vertical       |



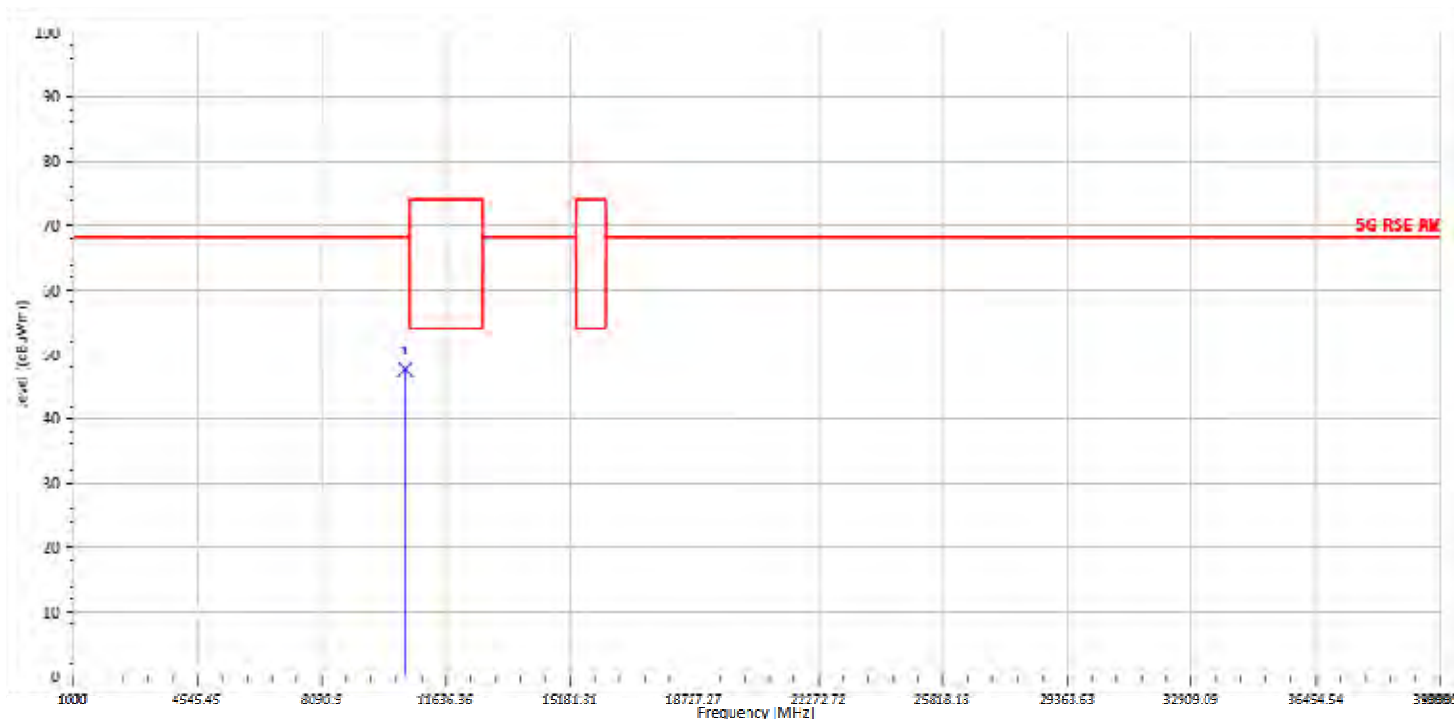
| Freq.    | Note    | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz      | F/H/E/S | PK/QP/AV      | dBμV                   | dB     | dBμV/m    | dBμV/m    | dB     |
| 10480.00 | H       | Peak          | 38.13                  | 9.64   | 47.78     | 68.3      | -20.52 |

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|                         |            |                            |                |
|-------------------------|------------|----------------------------|----------------|
| Operation Mode :        | 802.11aB1  | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5240 MHz   | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH HIGH | Test Engineer :            | Enzo           |
| EUT Pol. :              | H          | Measurement Antenna Pol. : | Horizontal     |



| Freq.    | Note    | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz      | F/H/E/S | PK/QP/AV      | dBμV                   | dB     | dBμV/m    | dBμV/m    | dB     |
| 10480.00 | H       | Peak          | 38.07                  | 9.64   | 47.72     | 68.3      | -20.58 |

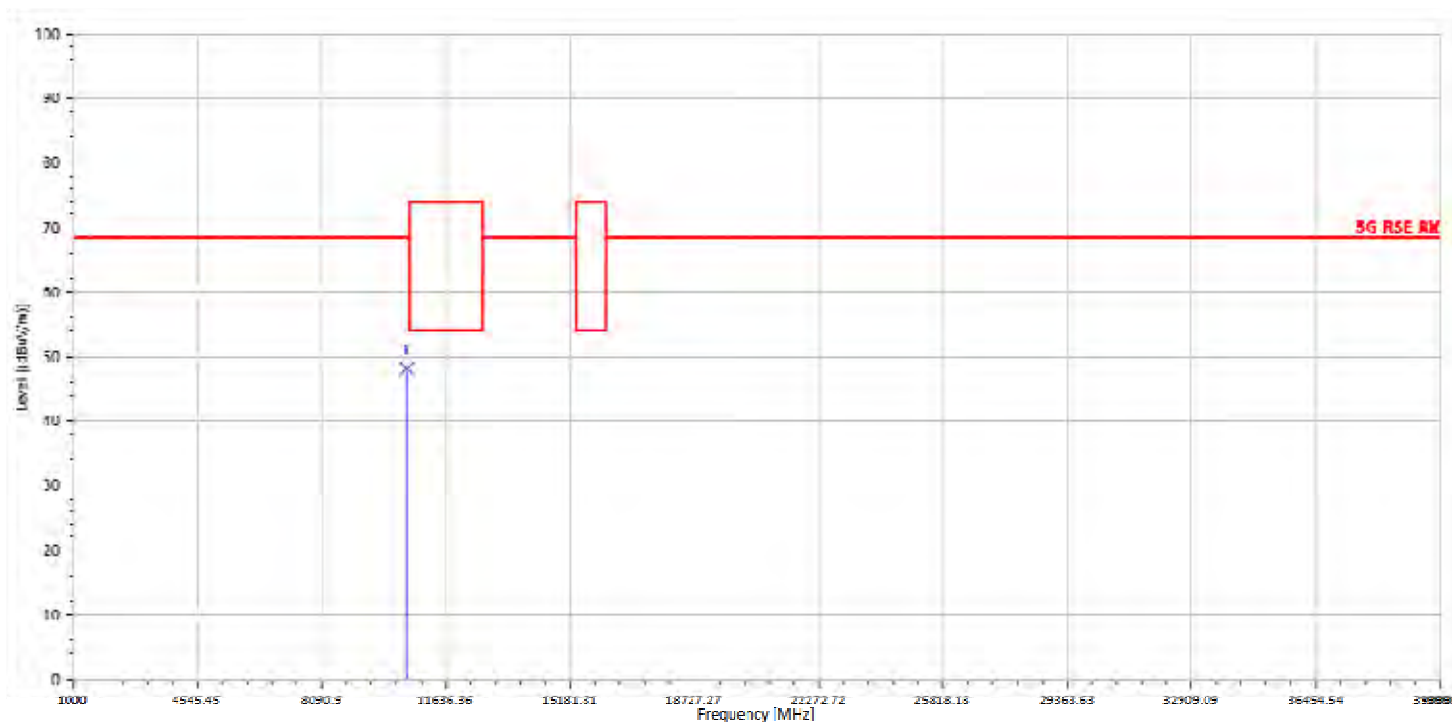
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## Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

|                         |           |                            |                |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode :        | 802.11aB2 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5260 MHz  | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH LOW | Test Engineer :            | Enzo           |
| EUT Pol. :              | H         | Measurement Antenna Pol. : | Vertical       |



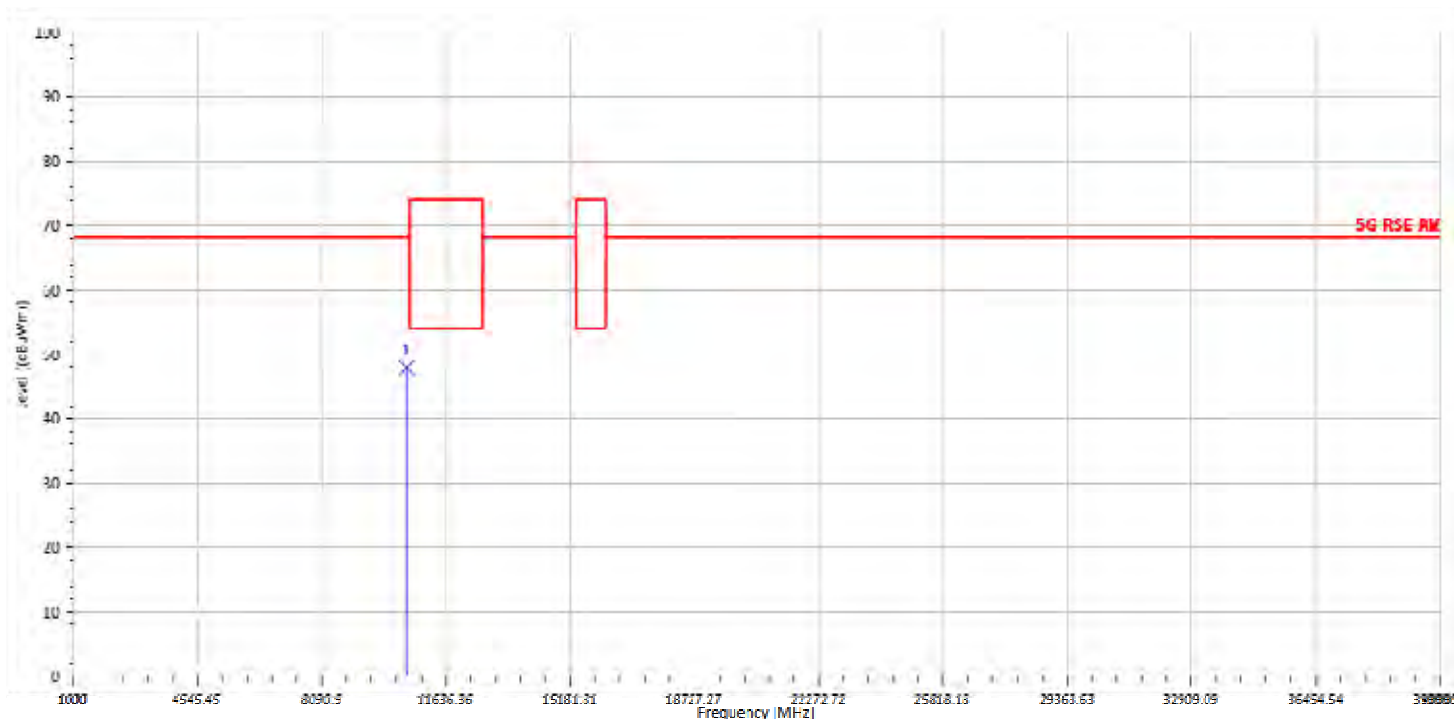
| Freq.    | Note    | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz      | F/H/E/S | PK/QP/AV      | dBμV                   | dB     | dBμV/m    | dBμV/m    | dB     |
| 10520.00 | H       | Peak          | 38.34                  | 9.77   | 48.12     | 68.3      | -20.18 |

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|                         |           |                            |                |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode :        | 802.11aB2 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5260 MHz  | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH LOW | Test Engineer :            | Enzo           |
| EUT Pol. :              | H         | Measurement Antenna Pol. : | Horizontal     |



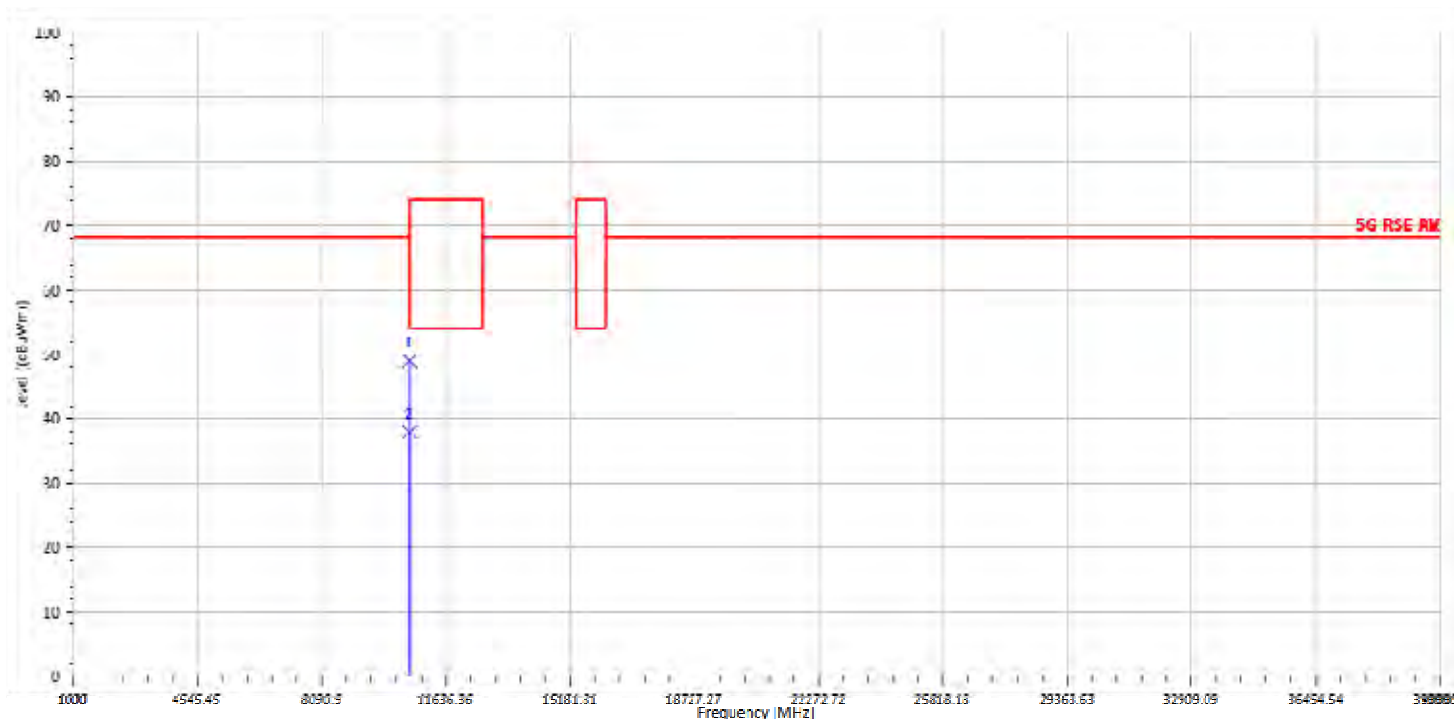
| Freq.    | Note    | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz      | F/H/E/S | PK/QP/AV      | dBμV                   | dB     | dBμV/m    | dBμV/m    | dB     |
| 10520.00 | H       | Peak          | 38.19                  | 9.77   | 47.96     | 68.3      | -20.34 |

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Operation Mode : 802.11aB2      Test Date : 2017/9/27  
 Fundamental Frequency : 5300 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH MID      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Vertical



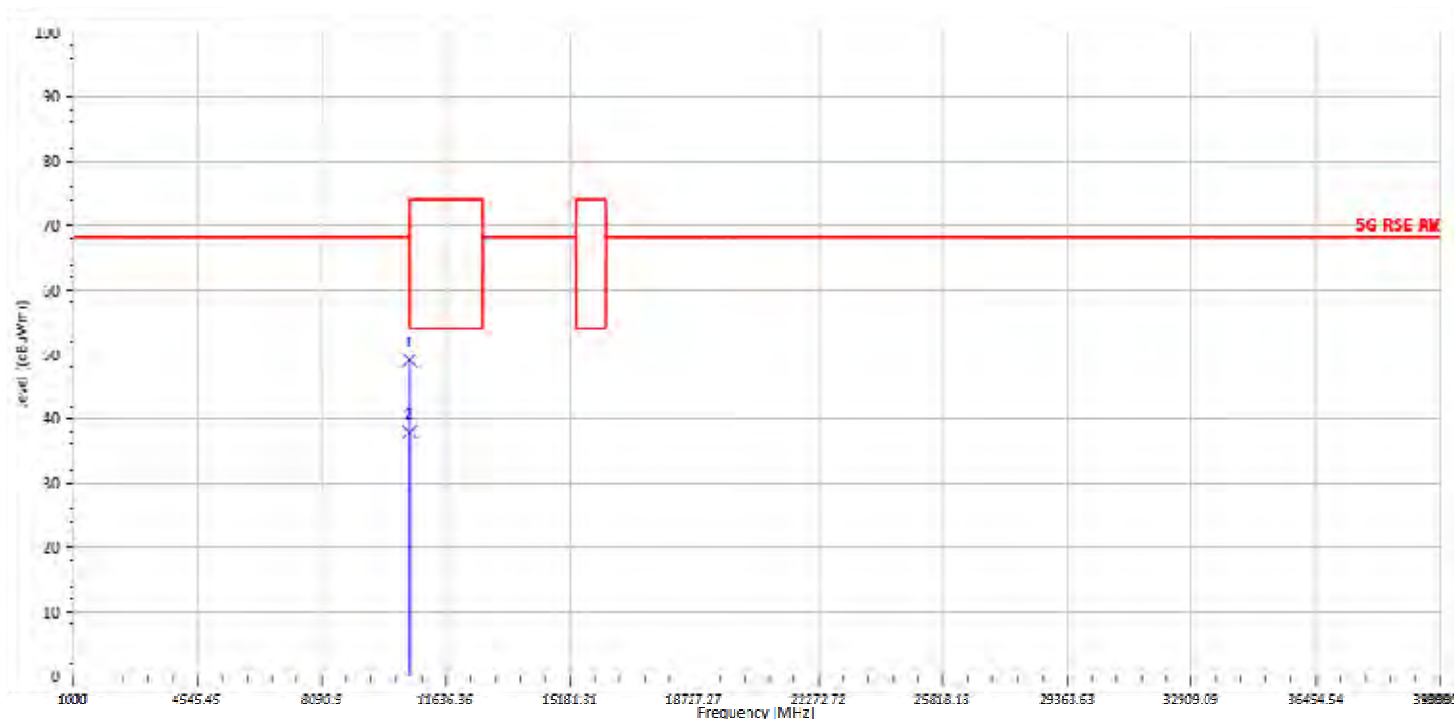
| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level |        | FS     | @3m    |        |
|          |         | PK/QP/AV | dBuV          | dB     | dBuV/m | dBuV/m | dB     |
| 10600.00 | H       | Peak     | 38.83         | 10.15  | 48.97  | 74     | -25.03 |
| 10600.00 | H       | Average  | 27.80         | 10.15  | 37.94  | 54     | -16.06 |

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Operation Mode : 802.11aB2      Test Date : 2017/9/27  
 Fundamental Frequency : 5300 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH MID      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



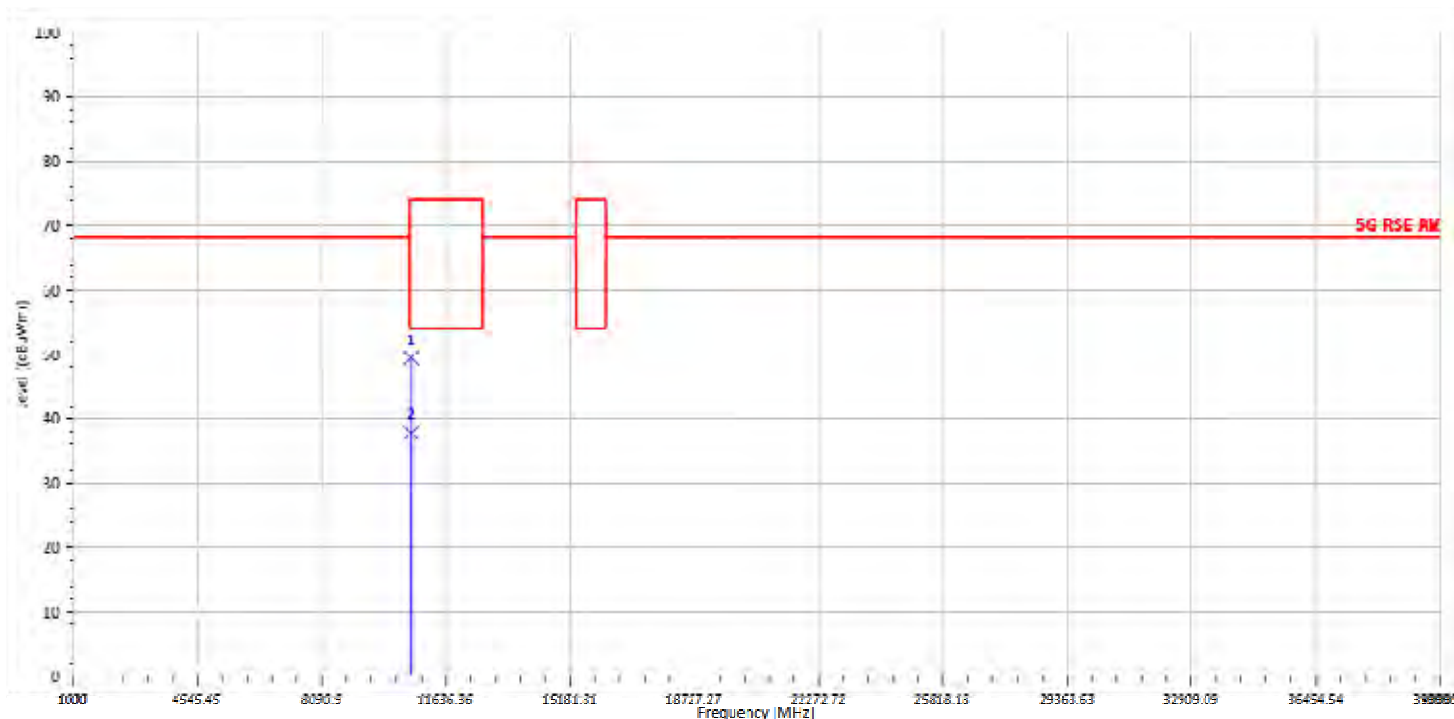
| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level |        | FS     | @3m    |        |
|          |         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 10600.00 | H       | Peak     | 38.97         | 10.15  | 49.12  | 74     | -24.88 |
| 10600.00 | H       | Average  | 27.77         | 10.15  | 37.92  | 54     | -16.08 |

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|                         |            |                            |                |
|-------------------------|------------|----------------------------|----------------|
| Operation Mode :        | 802.11aB2  | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5320 MHz   | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH HIGH | Test Engineer :            | Enzo           |
| EUT Pol. :              | H          | Measurement Antenna Pol. : | Vertical       |



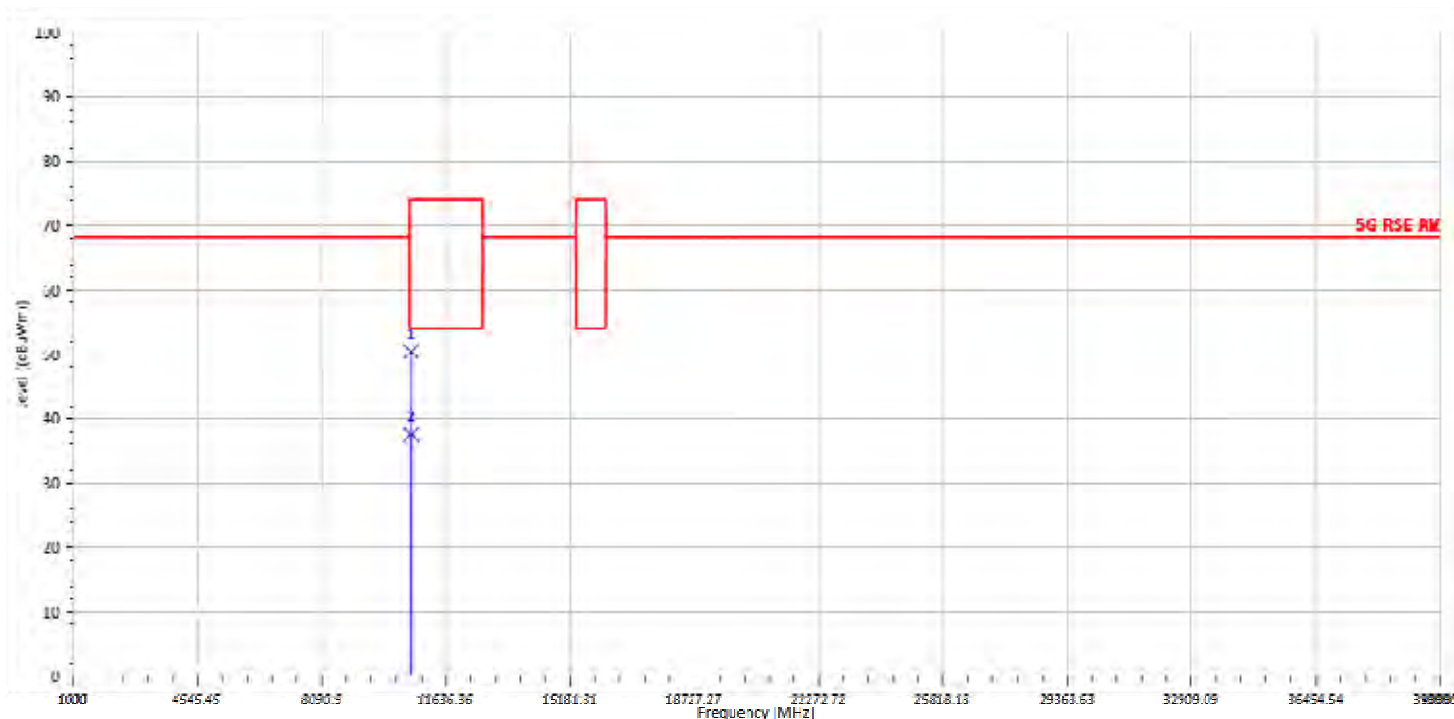
| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level | dB     | FS     | @3m    | dB     |
|          |         | PK/QP/AV | dBμV          |        | dBμV/m | dBμV/m |        |
| 10640.00 | H       | Peak     | 39.41         | 10.07  | 49.49  | 74     | -24.51 |
| 10640.00 | H       | Average  | 27.76         | 10.07  | 37.83  | 54     | -16.17 |

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|                         |            |                            |                |
|-------------------------|------------|----------------------------|----------------|
| Operation Mode :        | 802.11aB2  | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5320 MHz   | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH HIGH | Test Engineer :            | Enzo           |
| EUT Pol. :              | H          | Measurement Antenna Pol. : | Horizontal     |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level | dB     | FS     | @3m    | dB     |
|          |         | PK/QP/AV | dBμV          |        | dBμV/m | dBμV/m |        |
| 10640.00 | H       | Peak     | 40.39         | 10.07  | 50.46  | 74     | -23.54 |
| 10640.00 | H       | Average  | 27.51         | 10.07  | 37.58  | 54     | -16.42 |

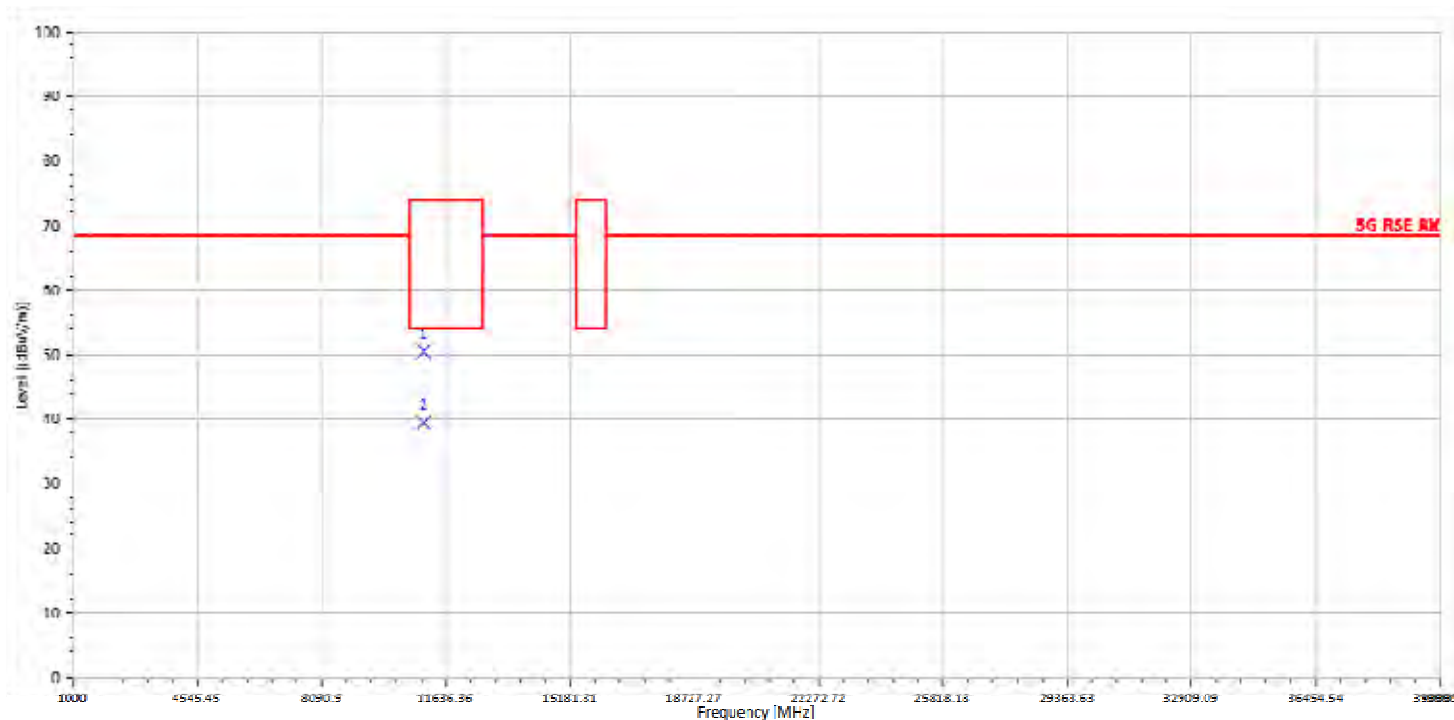
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## Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

|                         |           |                            |                |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode :        | 802.11aB3 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5500 MHz  | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH LOW | Test Engineer :            | Enzo           |
| EUT Pol. :              | H         | Measurement Antenna Pol. : | Vertical       |



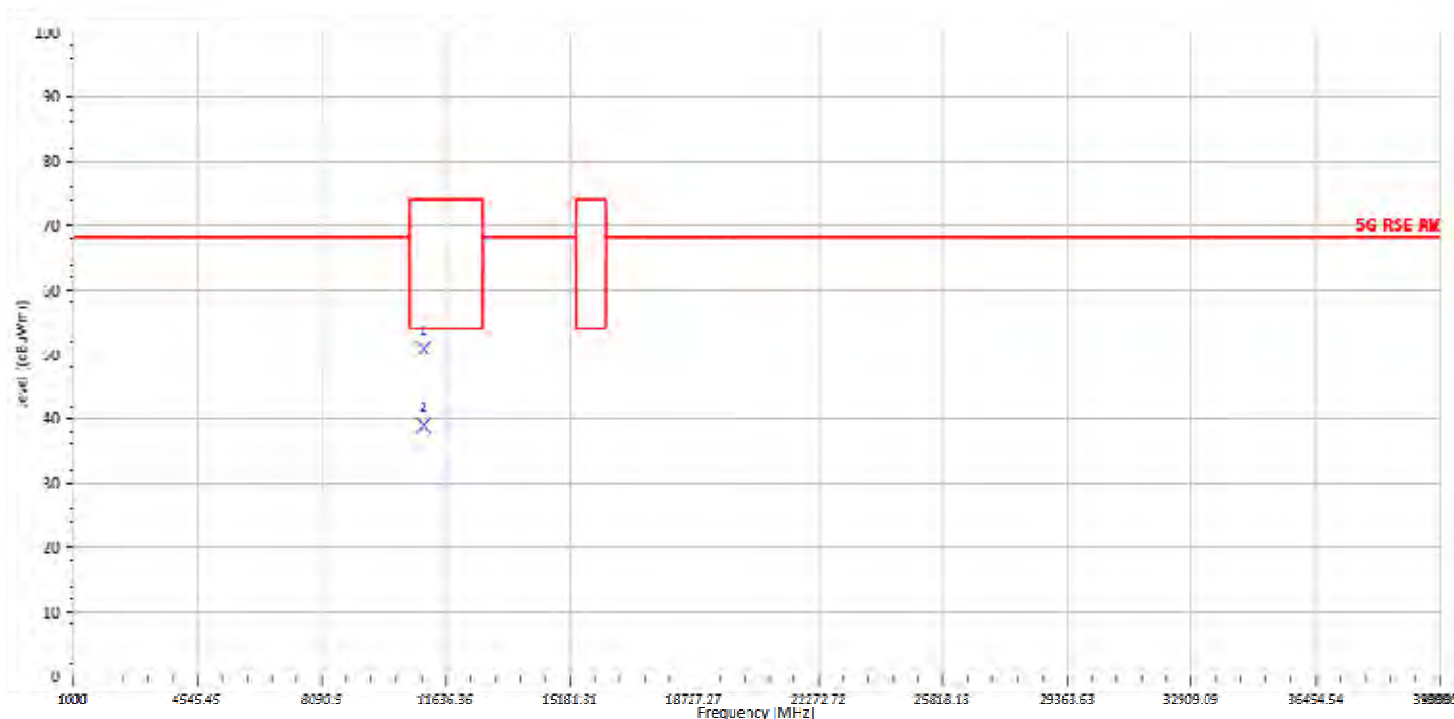
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 11000.00     | H               | Peak                         | 38.75                             | 11.71        | 50.46                  | 74                     | -23.54       |
| 11000.00     | H               | Average                      | 27.75                             | 11.71        | 39.46                  | 54                     | -14.54       |

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|                         |           |                            |                |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode :        | 802.11aB3 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5500 MHz  | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH LOW | Test Engineer :            | Enzo           |
| EUT Pol. :              | H         | Measurement Antenna Pol. : | Horizontal     |



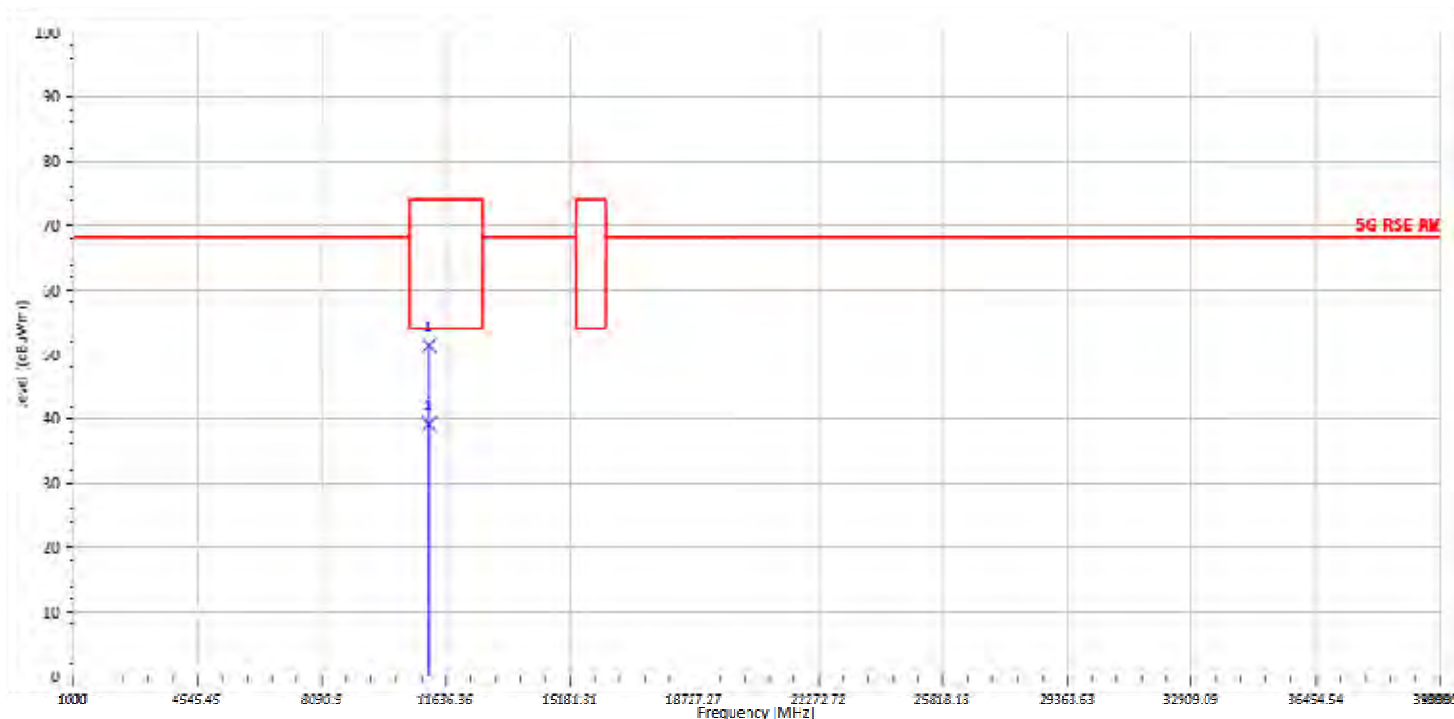
| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level | dB     | FS     | @3m    | dB     |
|          |         | PK/QP/AV | dBμV          |        | dBμV/m | dBμV/m |        |
| 11000.00 | H       | Peak     | 39.23         | 11.71  | 50.94  | 74     | -23.06 |
| 11000.00 | H       | Average  | 27.27         | 11.71  | 38.98  | 54     | -15.02 |

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Operation Mode : 802.11aB3      Test Date : 2017/9/27  
 Fundamental Frequency : 5580 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH MID      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Vertical



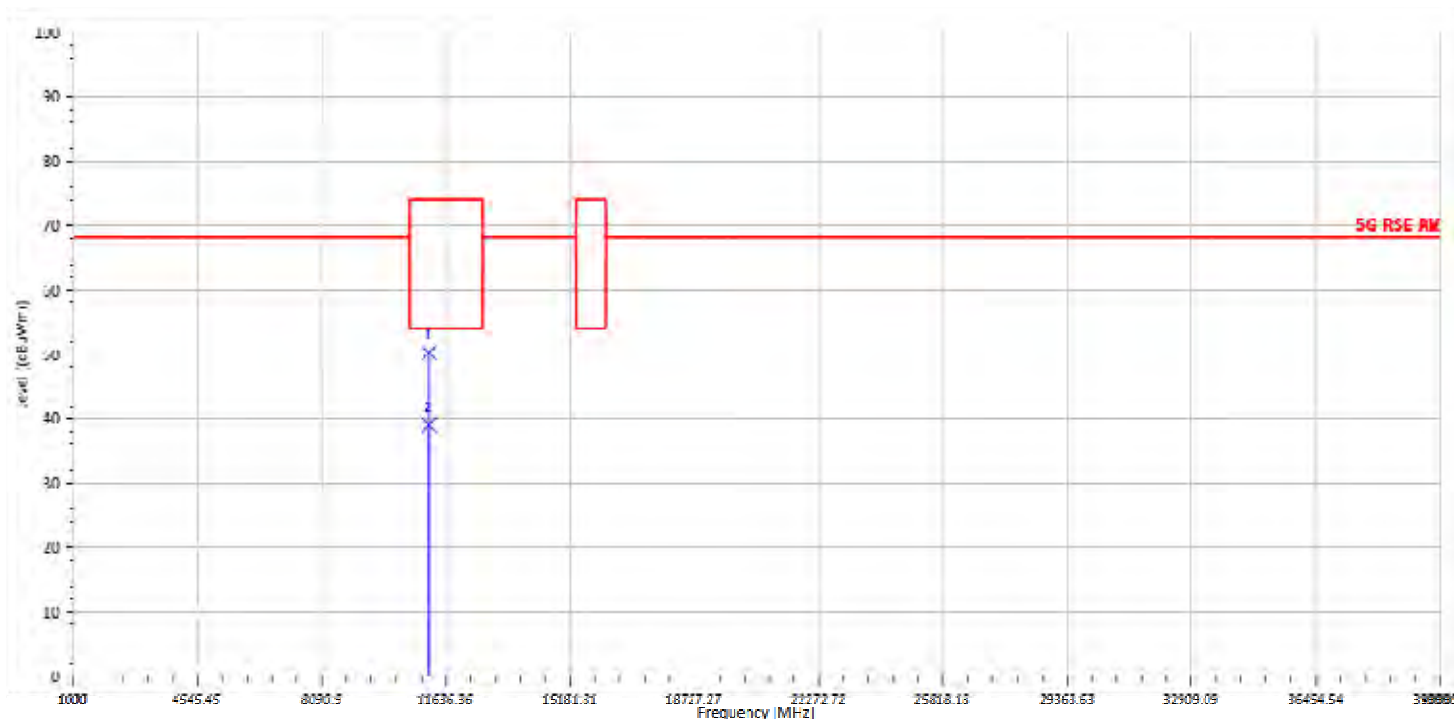
| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|-------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level | dB     | FS     | @3m   | dB     |
|          |         | PK/QP/AV |               |        |        |       |        |
| 11160.00 | H       | Peak     | 39.92         | 11.51  | 51.43  | 74    | -22.57 |
| 11160.00 | H       | Average  | 27.67         | 11.51  | 39.18  | 54    | -14.82 |

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Operation Mode : 802.11aB3      Test Date : 2017/9/27  
 Fundamental Frequency : 5580 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH MID      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



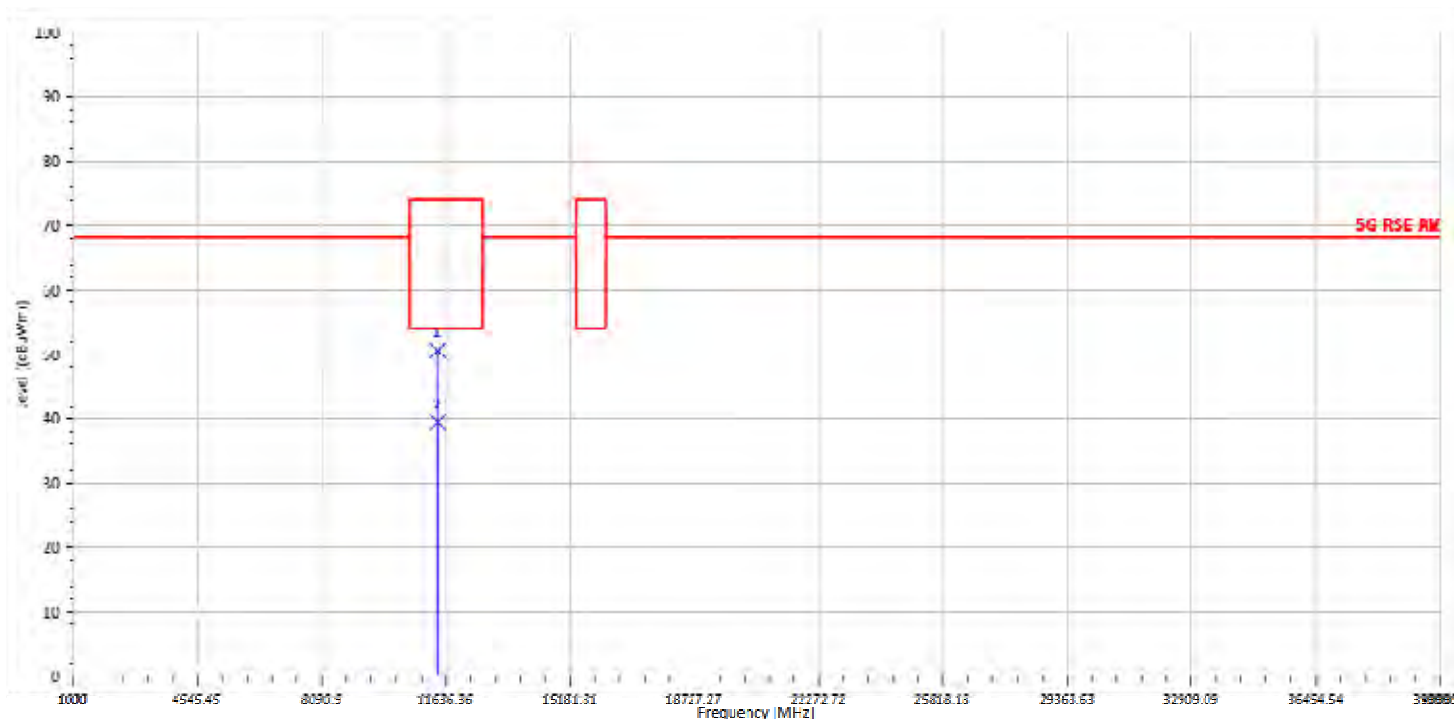
| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|-------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level | dB     | FS     | @3m   | dB     |
|          |         | PK/QP/AV |               |        |        |       |        |
| 11160.00 | H       | Peak     | 38.75         | 11.51  | 50.26  | 74    | -23.74 |
| 11160.00 | H       | Average  | 27.55         | 11.51  | 39.06  | 54    | -14.94 |

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|                         |            |                            |                |
|-------------------------|------------|----------------------------|----------------|
| Operation Mode :        | 802.11aB3  | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5700 MHz   | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH HIGH | Test Engineer :            | Enzo           |
| EUT Pol. :              | H          | Measurement Antenna Pol. : | Vertical       |



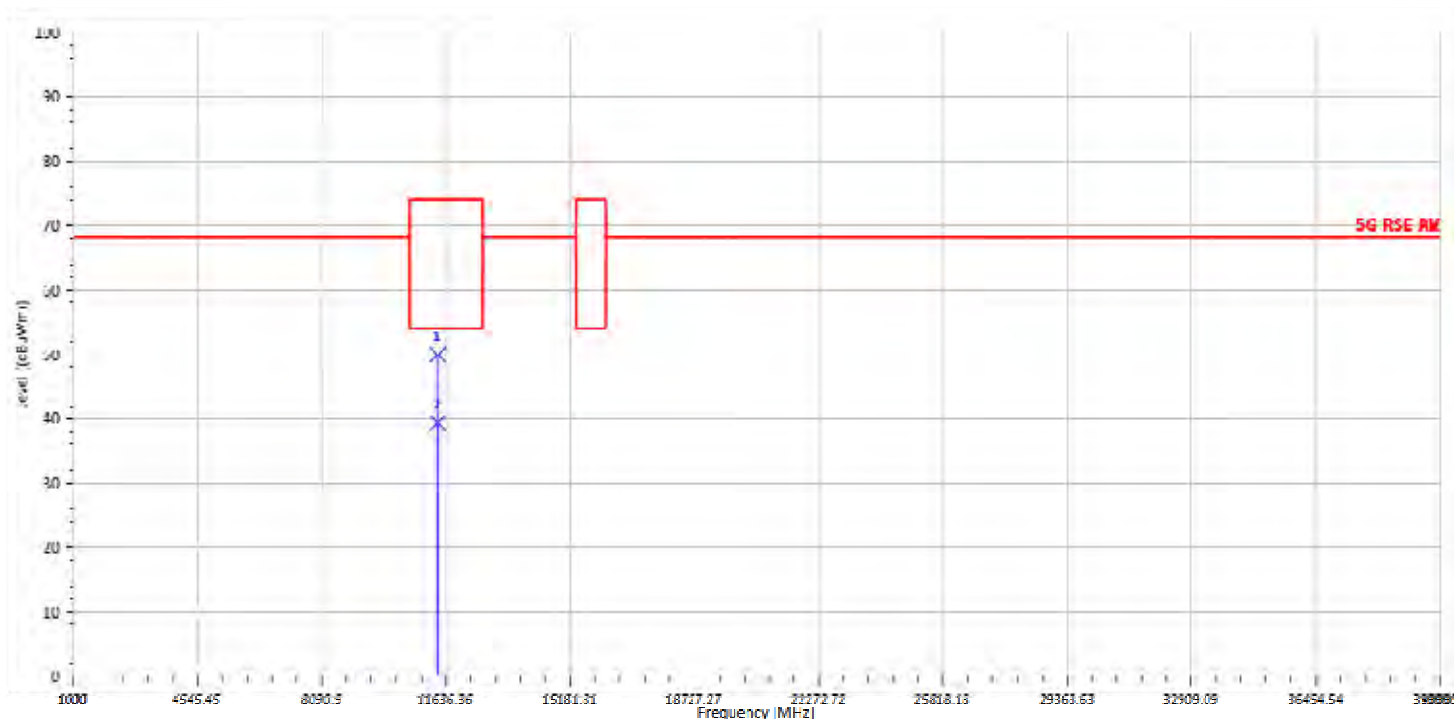
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 11400.00     | H               | Peak                         | 39.02                             | 11.60        | 50.62                  | 74                     | -23.38       |
| 11400.00     | H               | Average                      | 27.88                             | 11.60        | 39.48                  | 54                     | -14.52       |

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|                         |            |                            |                |
|-------------------------|------------|----------------------------|----------------|
| Operation Mode :        | 802.11aB3  | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5700 MHz   | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH HIGH | Test Engineer :            | Enzo           |
| EUT Pol. :              | H          | Measurement Antenna Pol. : | Horizontal     |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level | dB     | FS     | @3m    | dB     |
|          |         | PK/QP/AV | dBμV          |        | dBμV/m | dBμV/m |        |
| 11400.00 | H       | Peak     | 38.36         | 11.60  | 49.96  | 74     | -24.04 |
| 11400.00 | H       | Average  | 27.78         | 11.60  | 39.38  | 54     | -14.62 |

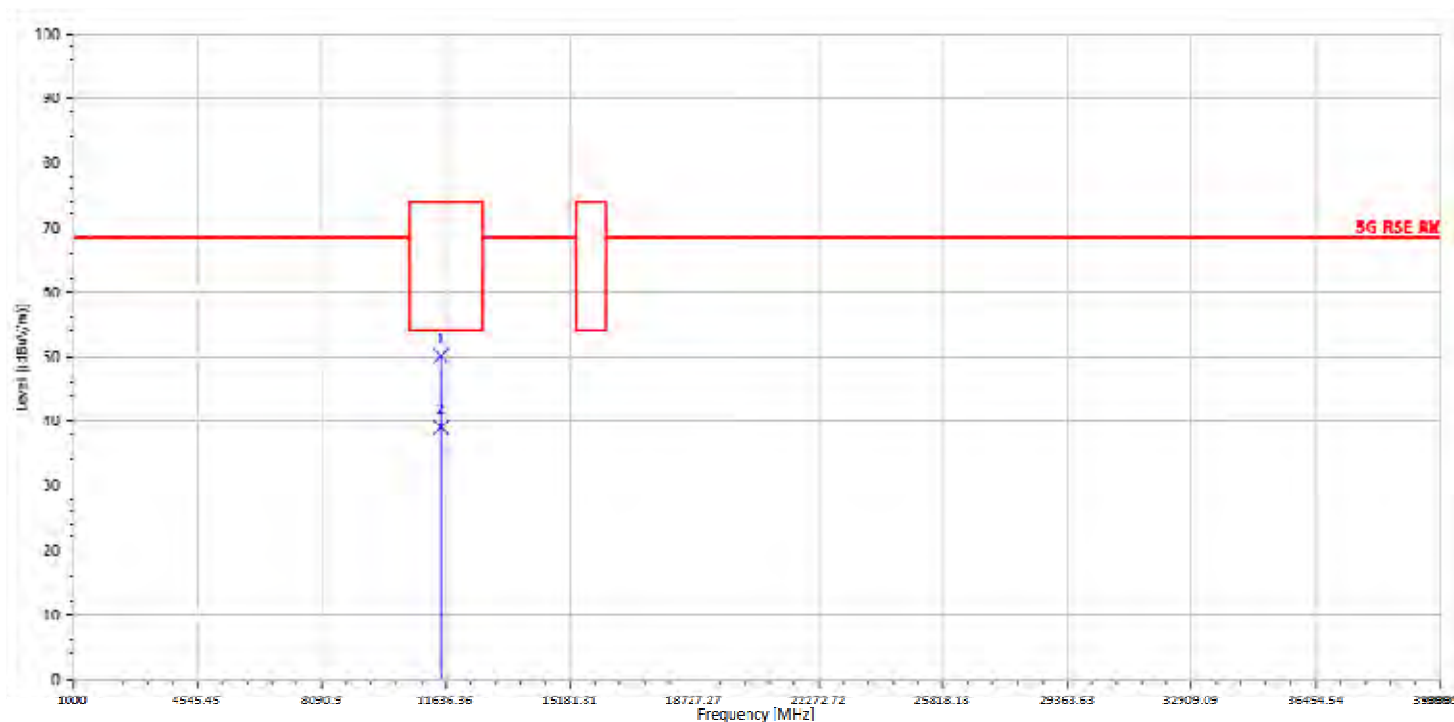
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## Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

|                         |           |                            |                |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode :        | 802.11aB4 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5745 MHz  | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH LOW | Test Engineer :            | Enzo           |
| EUT Pol. :              | H         | Measurement Antenna Pol. : | Vertical       |



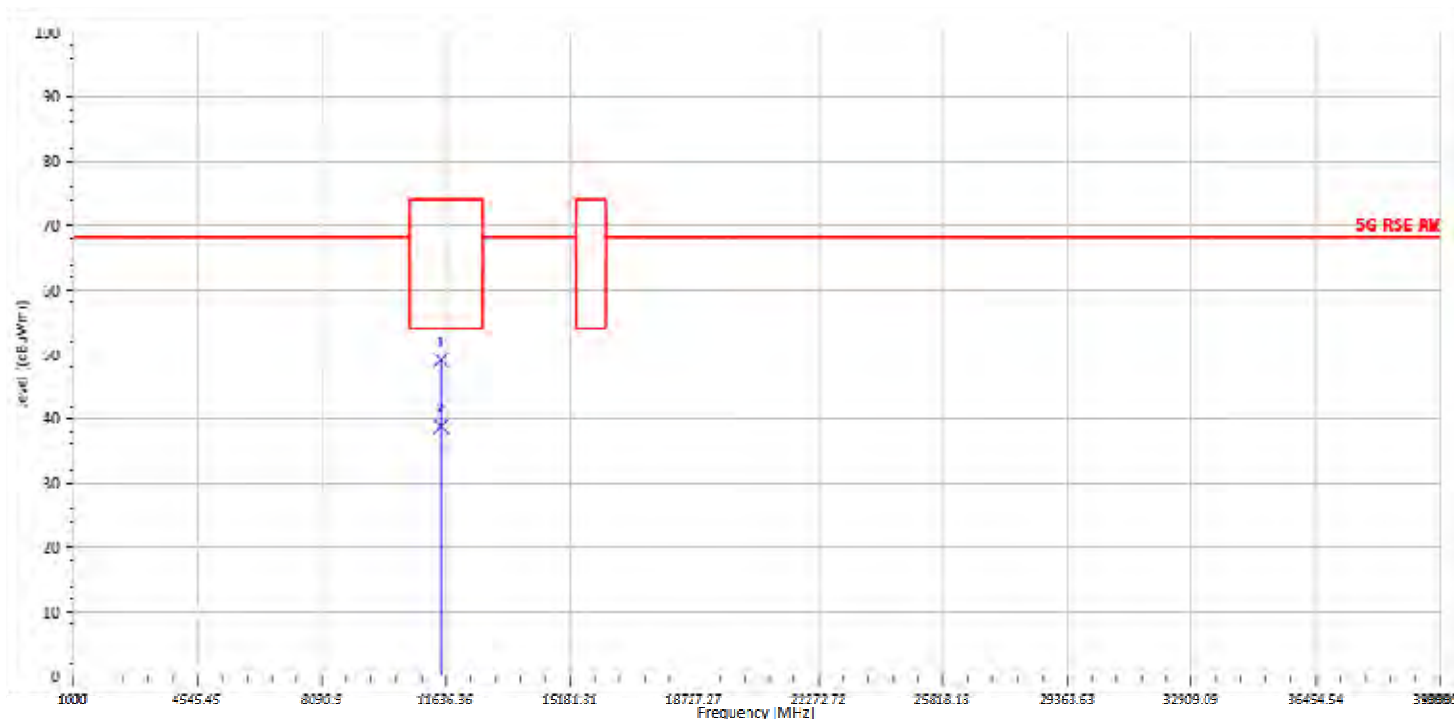
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 11490.00     | H               | Peak                         | 38.91                             | 11.18        | 50.09                  | 74                     | -23.91       |
| 11490.00     | H               | Average                      | 27.84                             | 11.18        | 39.02                  | 54                     | -14.98       |

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Operation Mode : 802.11aB4      Test Date : 2017/9/27  
 Fundamental Frequency : 5745 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH LOW      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



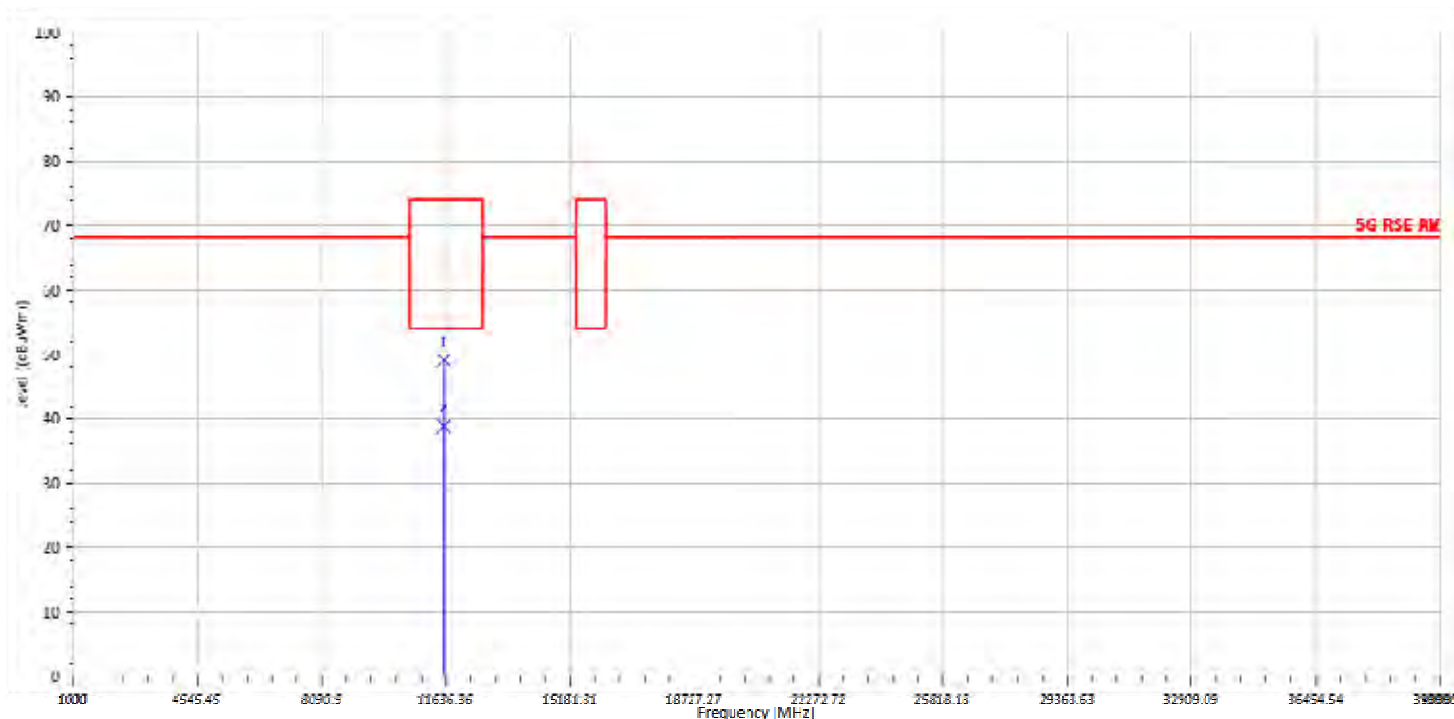
| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level |        | FS     | @3m    |        |
|          |         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 11490.00 | H       | Peak     | 37.97         | 11.18  | 49.14  | 74     | -24.86 |
| 11490.00 | H       | Average  | 27.69         | 11.18  | 38.87  | 54     | -15.13 |

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Operation Mode : 802.11aB4      Test Date : 2017/9/27  
 Fundamental Frequency : 5785 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH MID      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Vertical



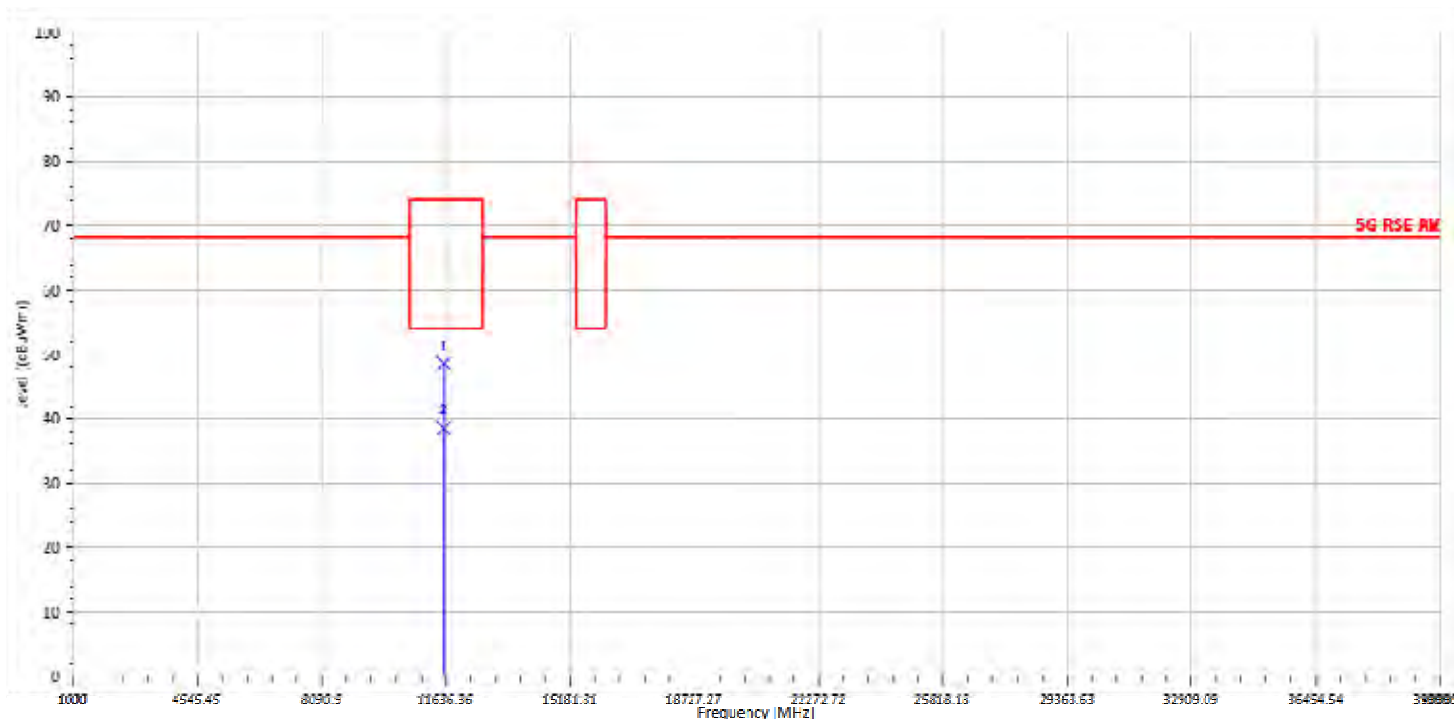
| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level | dB     | FS     | @3m    | dB     |
|          |         | PK/QP/AV | dBμV          |        | dBμV/m | dBμV/m |        |
| 11570.00 | H       | Peak     | 38.02         | 11.06  | 49.09  | 74     | -24.91 |
| 11570.00 | H       | Average  | 27.82         | 11.06  | 38.89  | 54     | -15.11 |

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Operation Mode : 802.11aB4      Test Date : 2017/9/27  
 Fundamental Frequency : 5785 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH MID      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



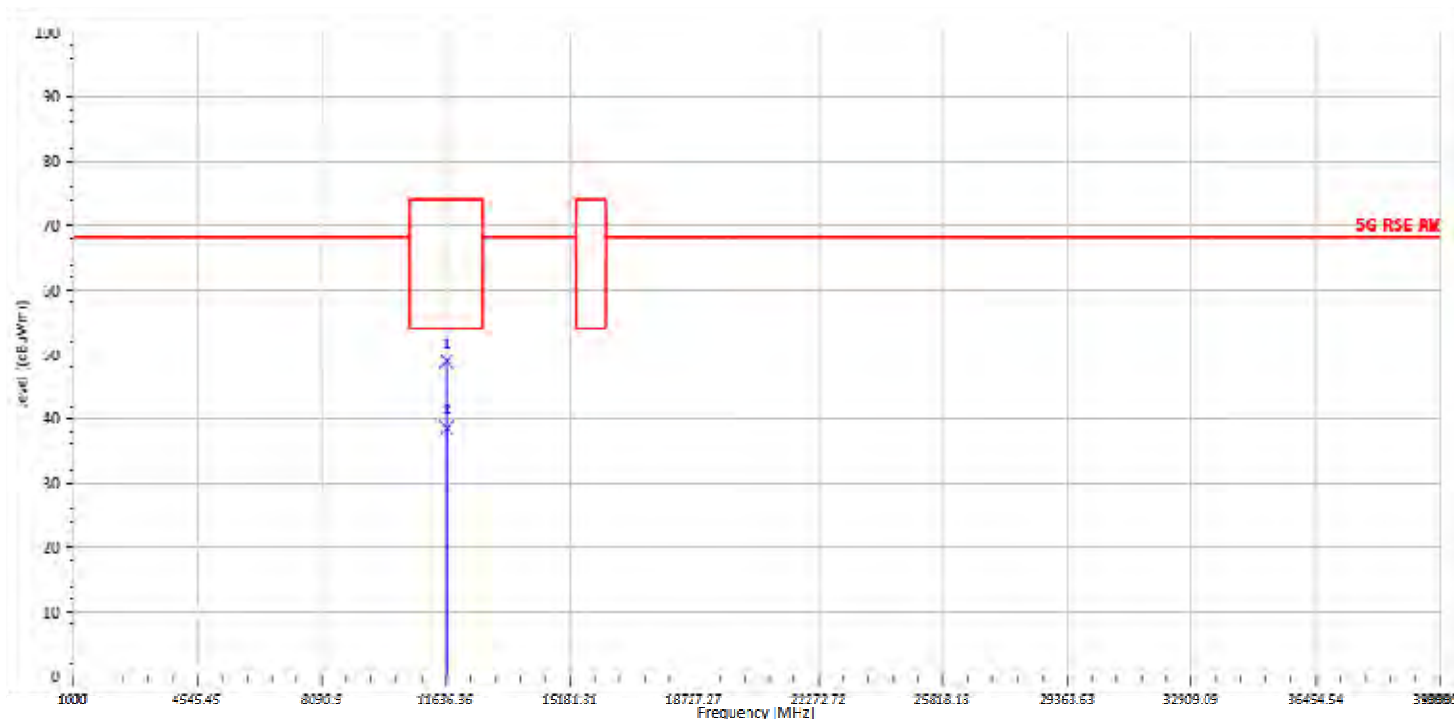
| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level | dB     | FS     | @3m    | dB     |
|          |         | PK/QP/AV | dBμV          |        | dBμV/m | dBμV/m |        |
| 11570.00 | H       | Peak     | 37.51         | 11.06  | 48.58  | 74     | -25.42 |
| 11570.00 | H       | Average  | 27.51         | 11.06  | 38.58  | 54     | -15.42 |

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|                         |            |                            |                |
|-------------------------|------------|----------------------------|----------------|
| Operation Mode :        | 802.11aB4  | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5825 MHz   | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH HIGH | Test Engineer :            | Enzo           |
| EUT Pol. :              | H          | Measurement Antenna Pol. : | Vertical       |



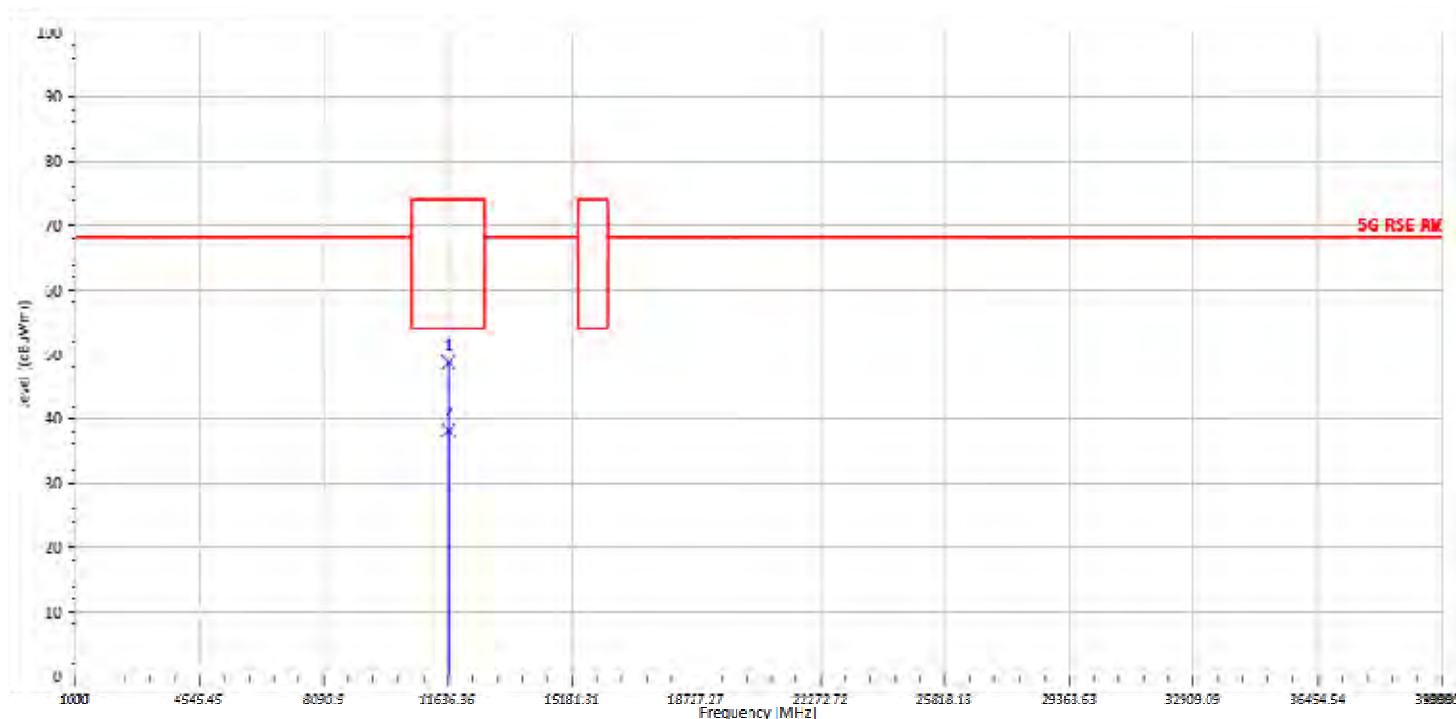
| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level | dB     | FS     | @3m    | dB     |
|          |         | PK/QP/AV | dBμV          |        | dBμV/m | dBμV/m |        |
| 11650.00 | H       | Peak     | 38.26         | 10.69  | 48.95  | 74     | -25.05 |
| 11650.00 | H       | Average  | 27.89         | 10.69  | 38.58  | 54     | -15.42 |

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|                         |            |                            |                |
|-------------------------|------------|----------------------------|----------------|
| Operation Mode :        | 802.11aB4  | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5825 MHz   | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH HIGH | Test Engineer :            | Enzo           |
| EUT Pol. :              | H          | Measurement Antenna Pol. : | Horizontal     |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level | dB     | FS     | @3m    | dB     |
|          |         | PK/QP/AV | dBμV          |        | dBμV/m | dBμV/m |        |
| 11650.00 | H       | Peak     | 38.05         | 10.69  | 48.74  | 74     | -25.26 |
| 11650.00 | H       | Average  | 27.55         | 10.69  | 38.24  | 54     | -15.76 |

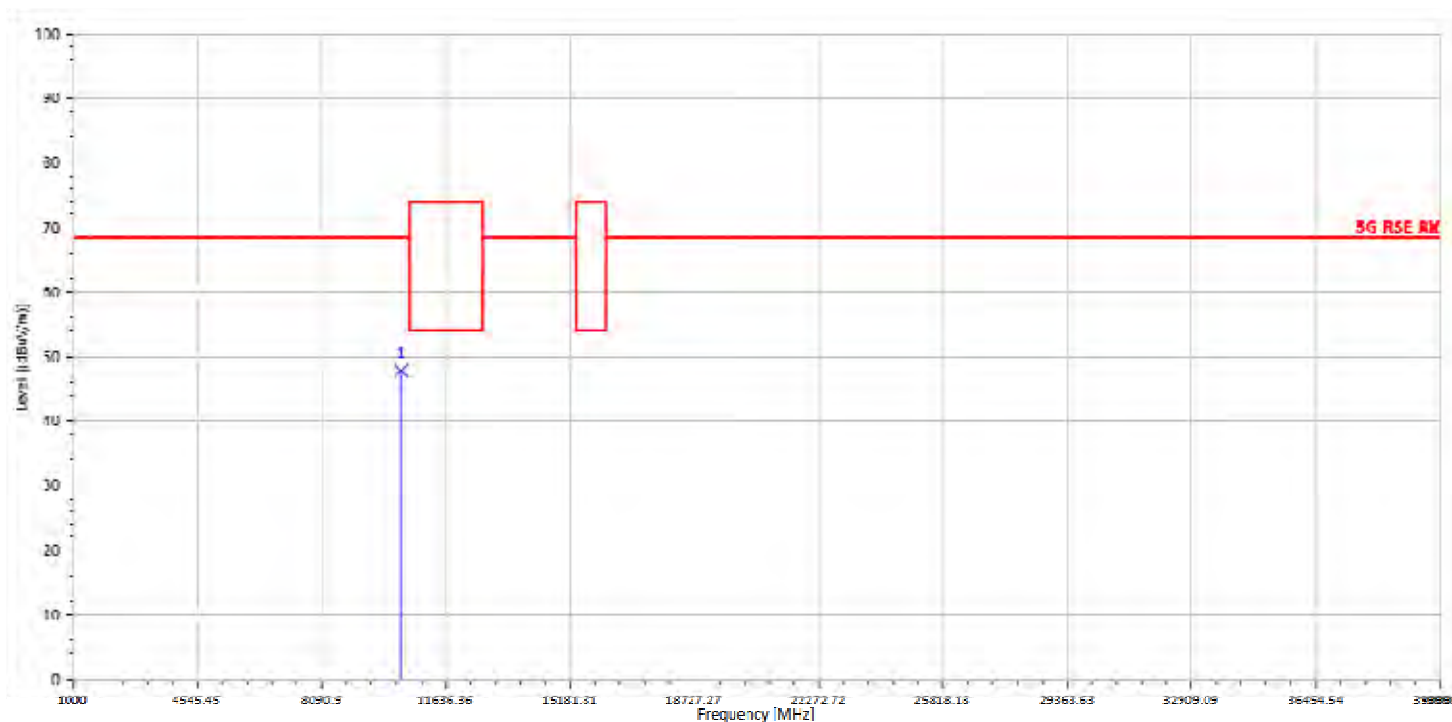
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## Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B1 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5180 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH LOW   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Vertical       |



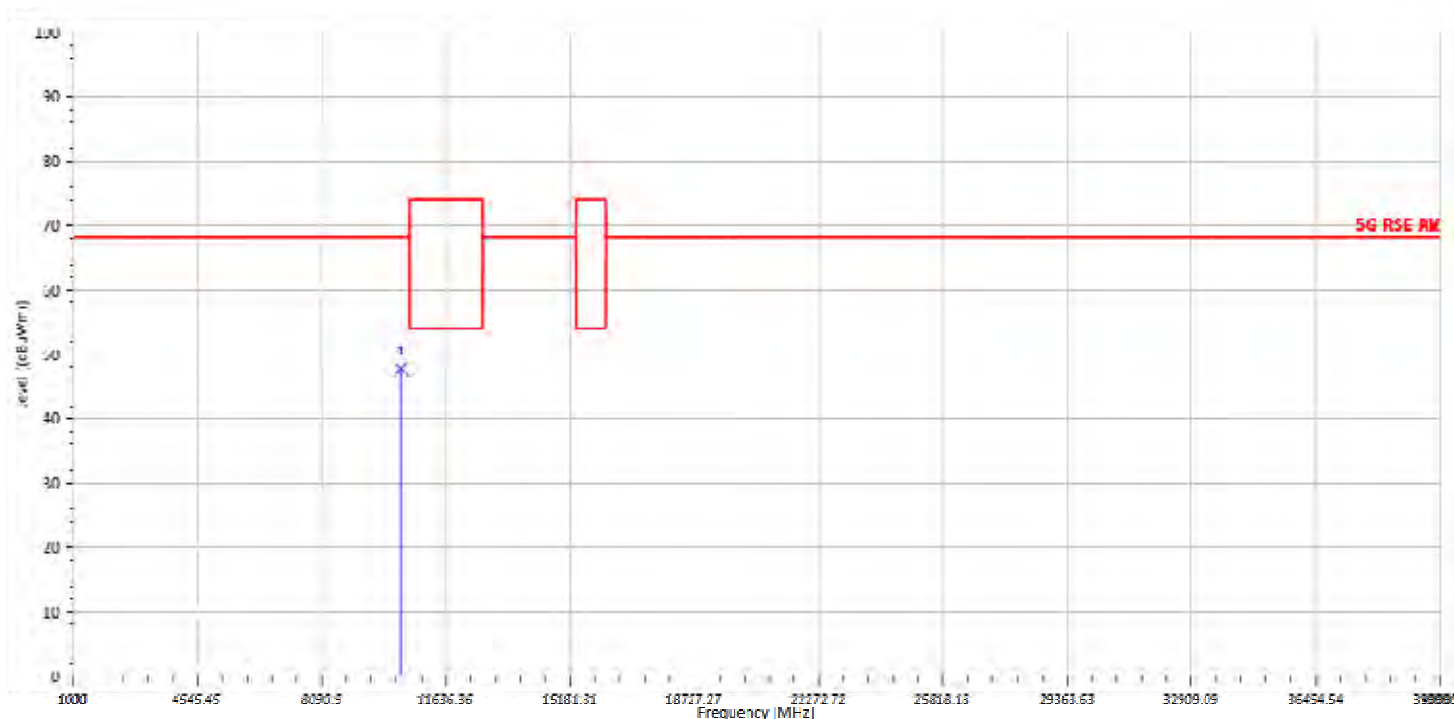
| Freq.    | Note    | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz      | F/H/E/S | PK/QP/AV      | dBμV                   | dB     | dBμV/m    | dBμV/m    | dB     |
| 10360.00 | H       | Peak          | 38.53                  | 9.27   | 47.80     | 68.3      | -20.50 |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B1 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5180 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH LOW   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Horizontal     |



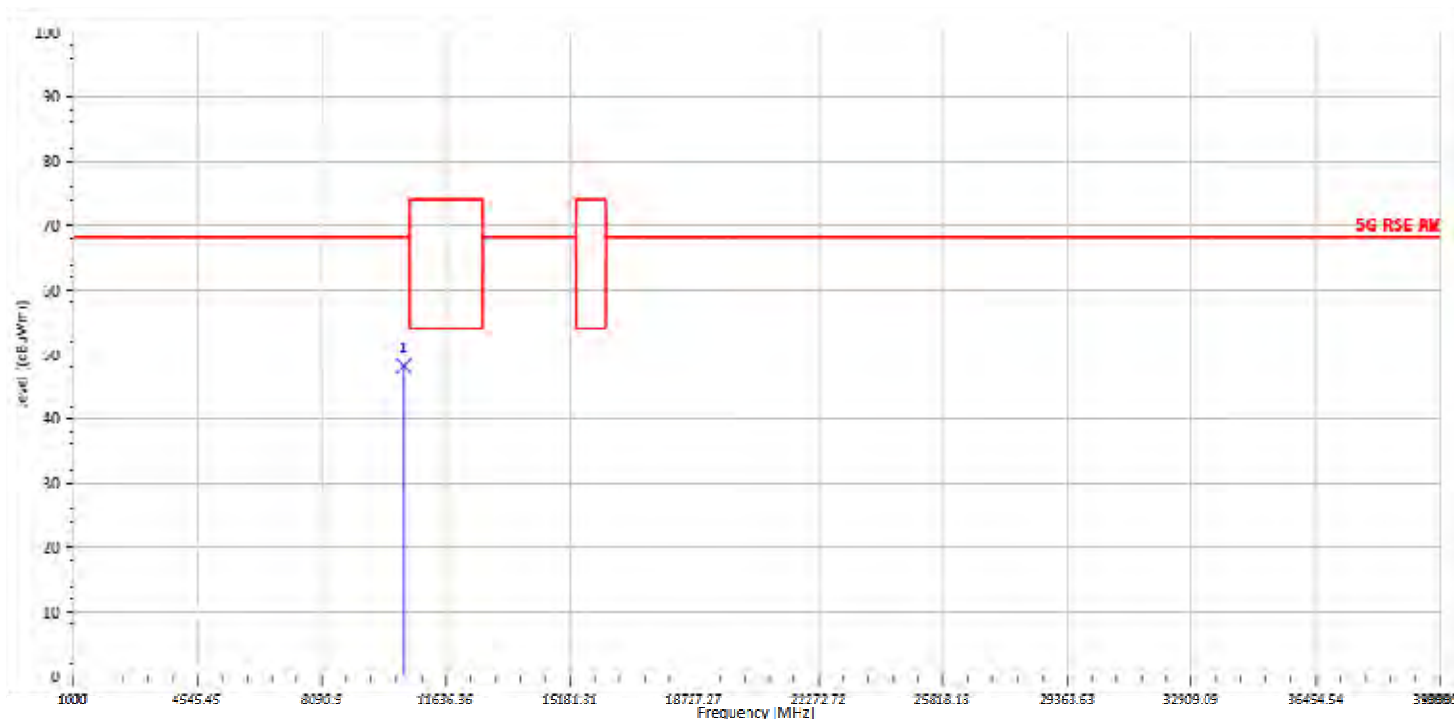
| Freq.    | Note    | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz      | F/H/E/S | PK/QP/AV      | dBμV                   | dB     | dBμV/m    | dBμV/m    | dB     |
| 10360.00 | H       | Peak          | 38.51                  | 9.27   | 47.78     | 68.3      | -20.52 |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B1 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5220 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH MID   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Vertical       |



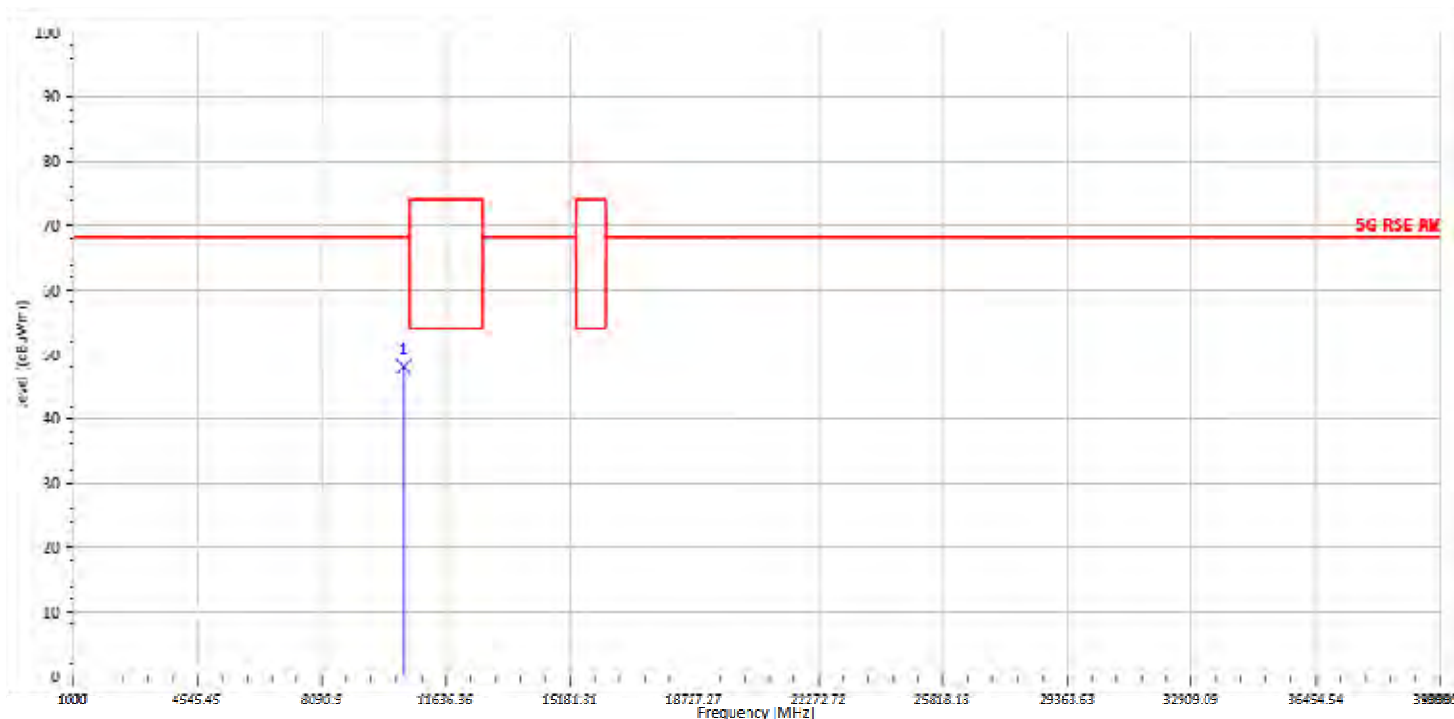
| Freq.    | Note    | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz      | F/H/E/S | PK/QP/AV      | dBμV                   | dB     | dBμV/m    | dBμV/m    | dB     |
| 10440.00 | H       | Peak          | 38.65                  | 9.57   | 48.21     | 68.3      | -20.09 |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B1 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5220 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH MID   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Horizontal     |



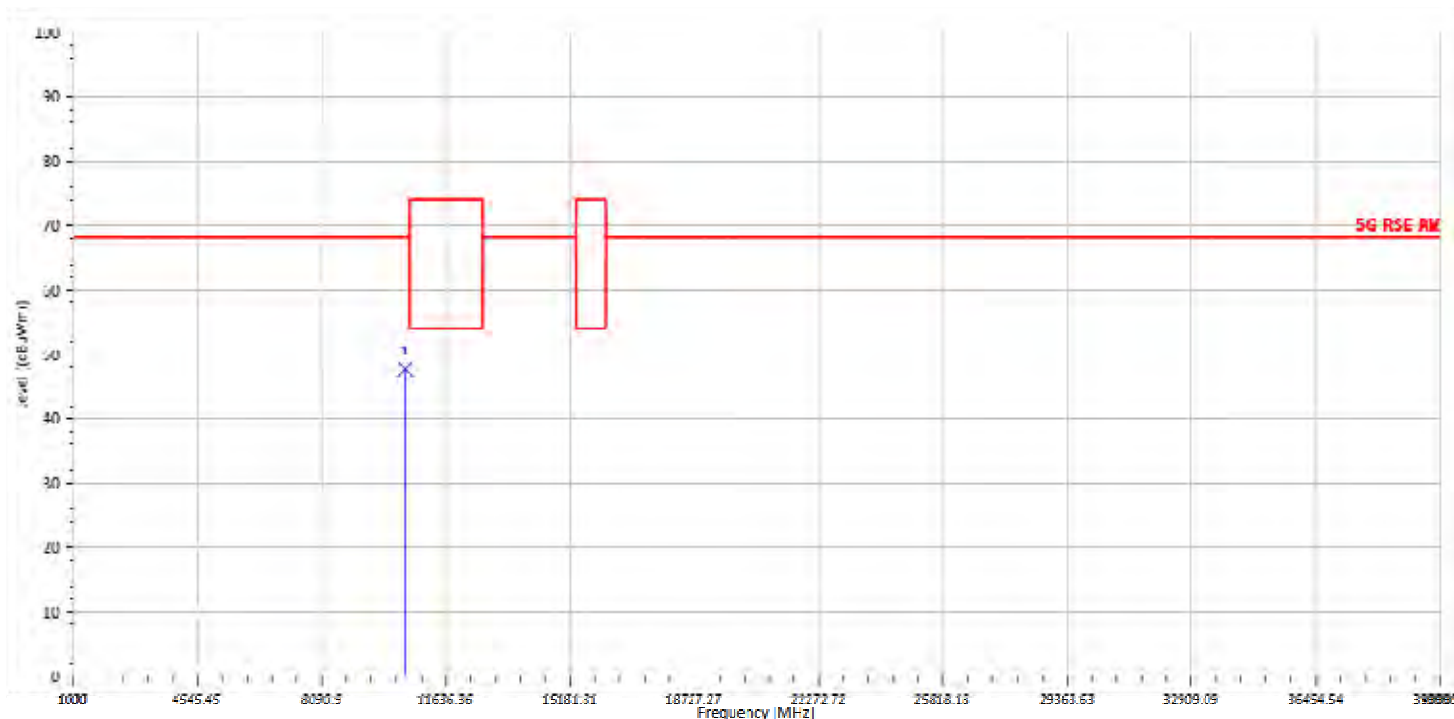
| Freq.    | Note    | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz      | F/H/E/S | PK/QP/AV      | dBμV                   | dB     | dBμV/m    | dBμV/m    | dB     |
| 10440.00 | H       | Peak          | 38.50                  | 9.57   | 48.07     | 68.3      | -20.23 |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B1 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5240 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH HIGH  | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Vertical       |



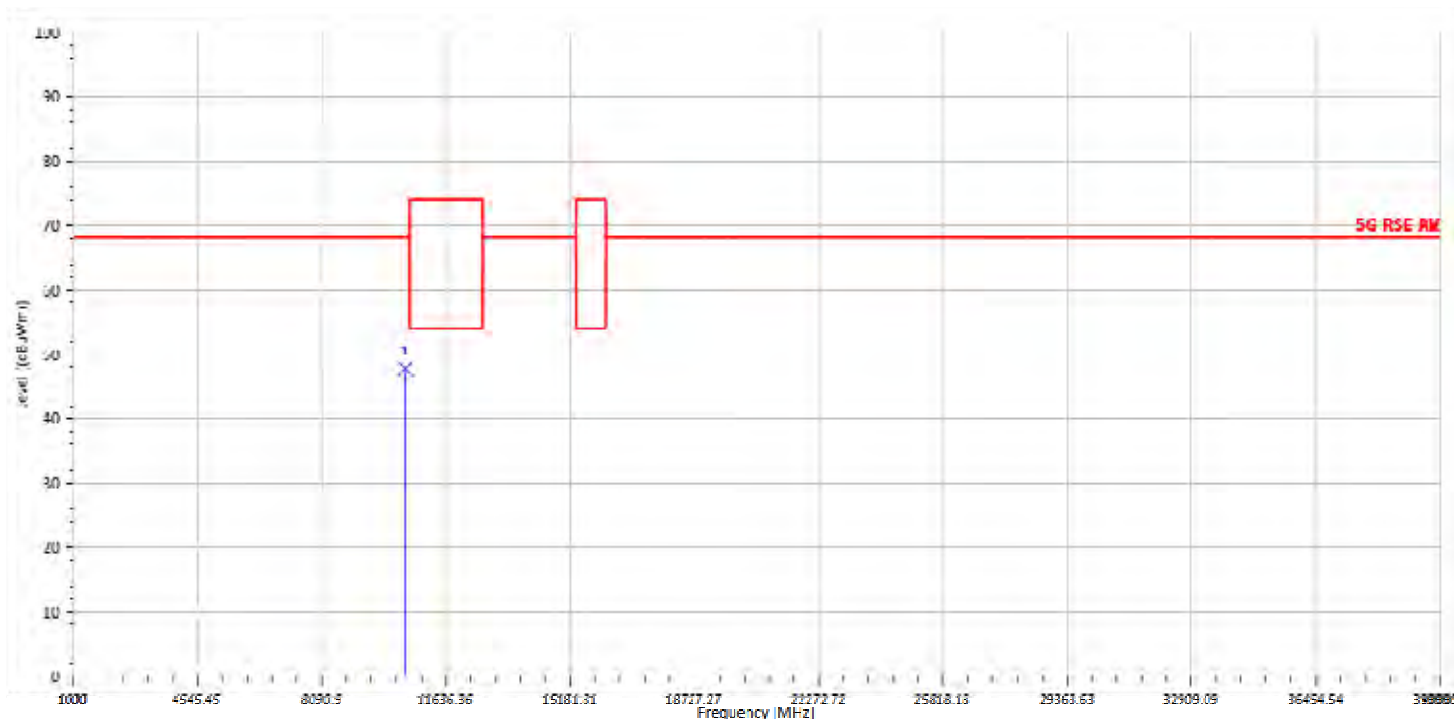
| Freq.    | Note    | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz      | F/H/E/S | PK/QP/AV      | dBμV                   | dB     | dBμV/m    | dBμV/m    | dB     |
| 10480.00 | H       | Peak          | 38.10                  | 9.64   | 47.74     | 68.3      | -20.56 |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B1 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5240 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH HIGH  | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Horizontal     |



| Freq.    | Note    | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz      | F/H/E/S | PK/QP/AV      | dBμV                   | dB     | dBμV/m    | dBμV/m    | dB     |
| 10480.00 | H       | Peak          | 38.16                  | 9.64   | 47.80     | 68.3      | -20.50 |

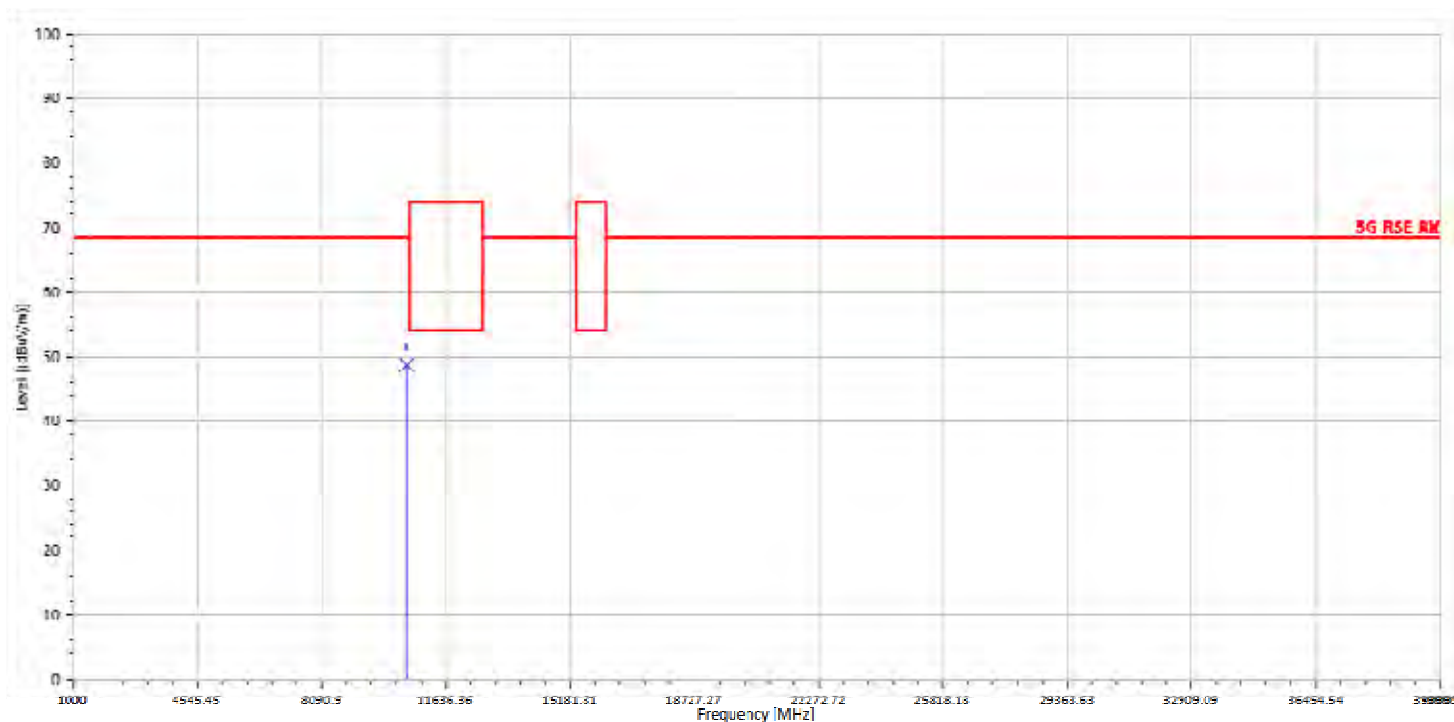
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## Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B2 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5260 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH LOW   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Vertical       |



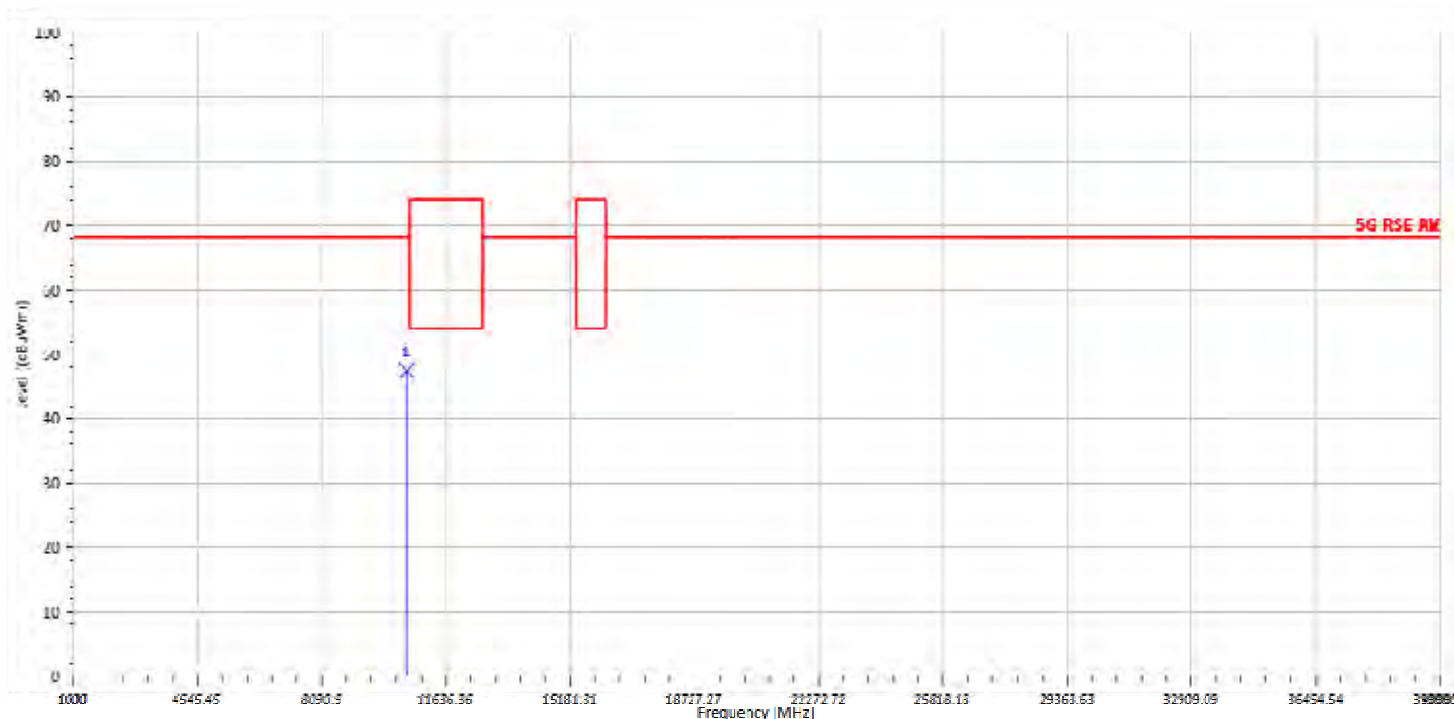
| Freq.    | Note    | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz      | F/H/E/S | PK/QP/AV      | dBμV                   | dB     | dBμV/m    | dBμV/m    | dB     |
| 10520.00 | H       | Peak          | 38.90                  | 9.77   | 48.67     | 68.3      | -19.63 |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B2 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5260 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH LOW   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Horizontal     |



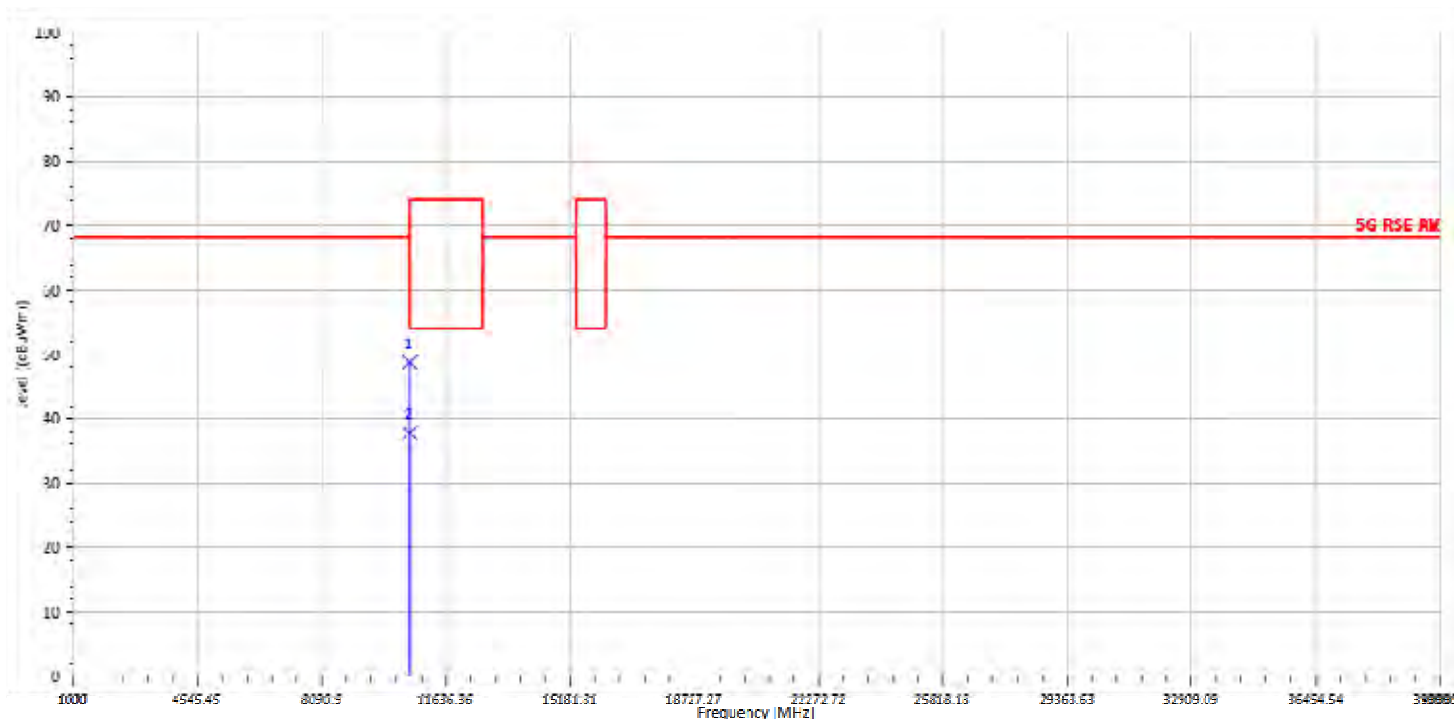
| Freq.    | Note    | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz      | F/H/E/S | PK/QP/AV      | dBμV                   | dB     | dBμV/m    | dBμV/m    | dB     |
| 10520.00 | H       | Peak          | 37.72                  | 9.77   | 47.49     | 68.3      | -20.81 |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B2 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5300 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH MID   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Vertical       |



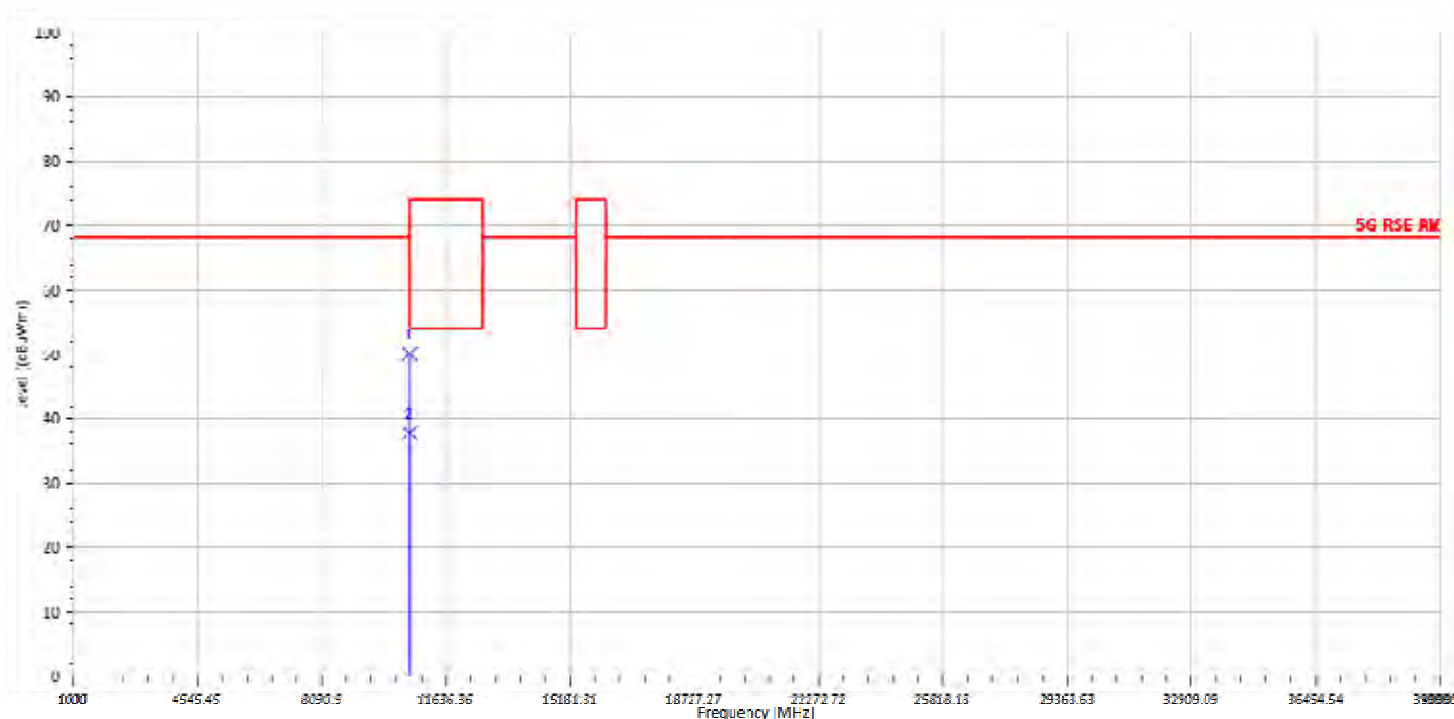
| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level |        | FS     | @3m    |        |
|          |         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 10600.00 | H       | Peak     | 38.64         | 10.15  | 48.78  | 74     | -25.22 |
| 10600.00 | H       | Average  | 27.66         | 10.15  | 37.81  | 54     | -16.19 |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B2 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5300 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH MID   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Horizontal     |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level |        | FS     | @3m    |        |
|          |         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 10600.00 | H       | Peak     | 39.97         | 10.15  | 50.11  | 74     | -23.89 |
| 10600.00 | H       | Average  | 27.66         | 10.15  | 37.81  | 54     | -16.19 |

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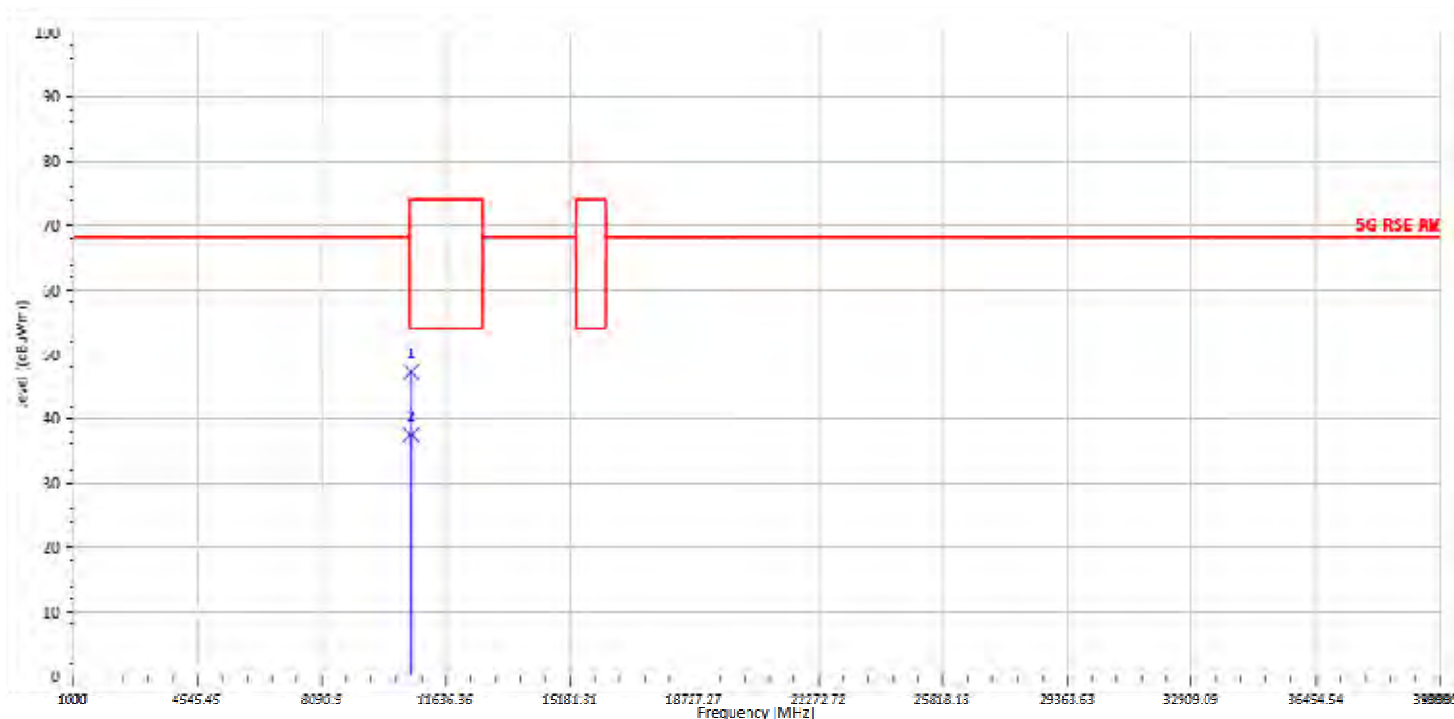
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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B2 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5320 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH HIGH  | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Vertical       |



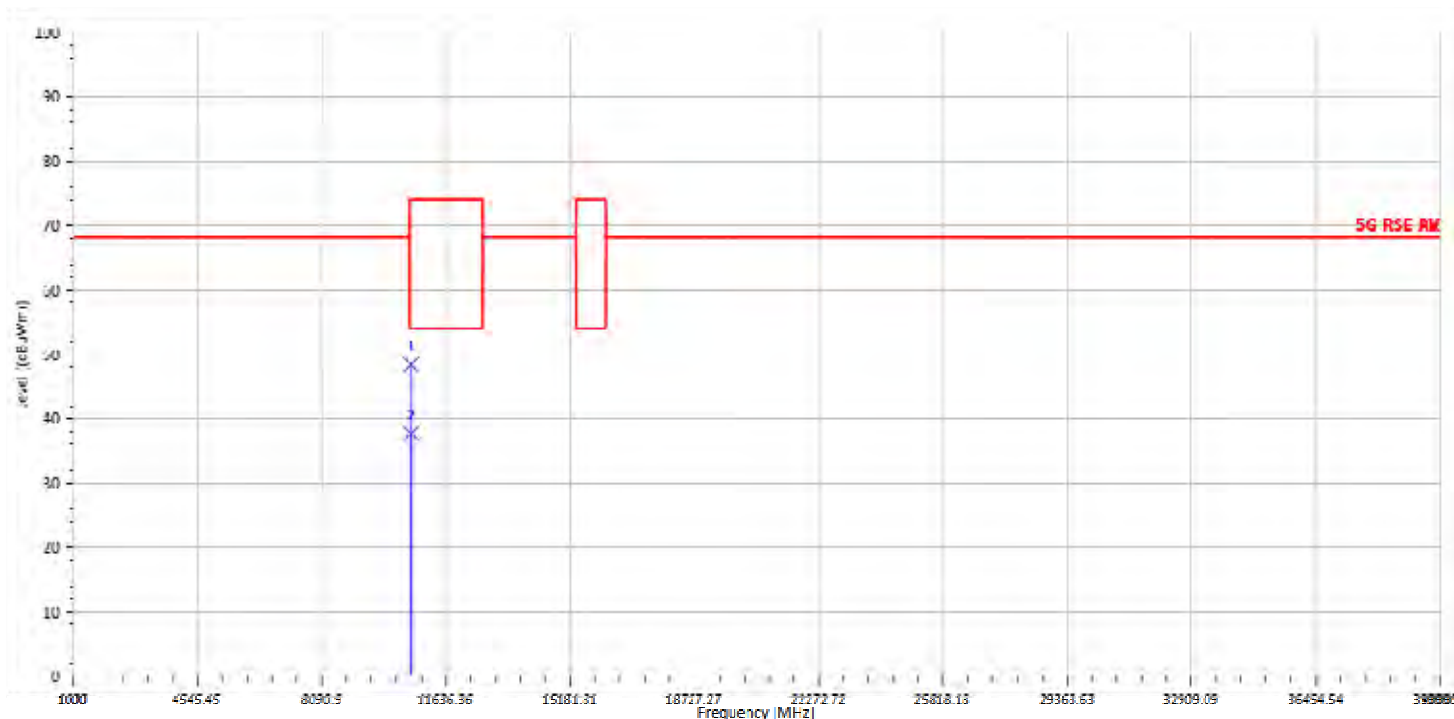
| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level | dB     | FS     | @3m    | dB     |
|          |         | PK/QP/AV | dBμV          |        | dBμV/m | dBμV/m |        |
| 10640.00 | H       | Peak     | 37.23         | 10.07  | 47.30  | 74     | -26.70 |
| 10640.00 | H       | Average  | 27.44         | 10.07  | 37.51  | 54     | -16.49 |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B2 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5320 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH HIGH  | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Horizontal     |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level |        | FS     | @3m    |        |
|          |         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 10640.00 | H       | Peak     | 38.36         | 10.07  | 48.43  | 74     | -25.57 |
| 10640.00 | H       | Average  | 27.66         | 10.07  | 37.73  | 54     | -16.27 |

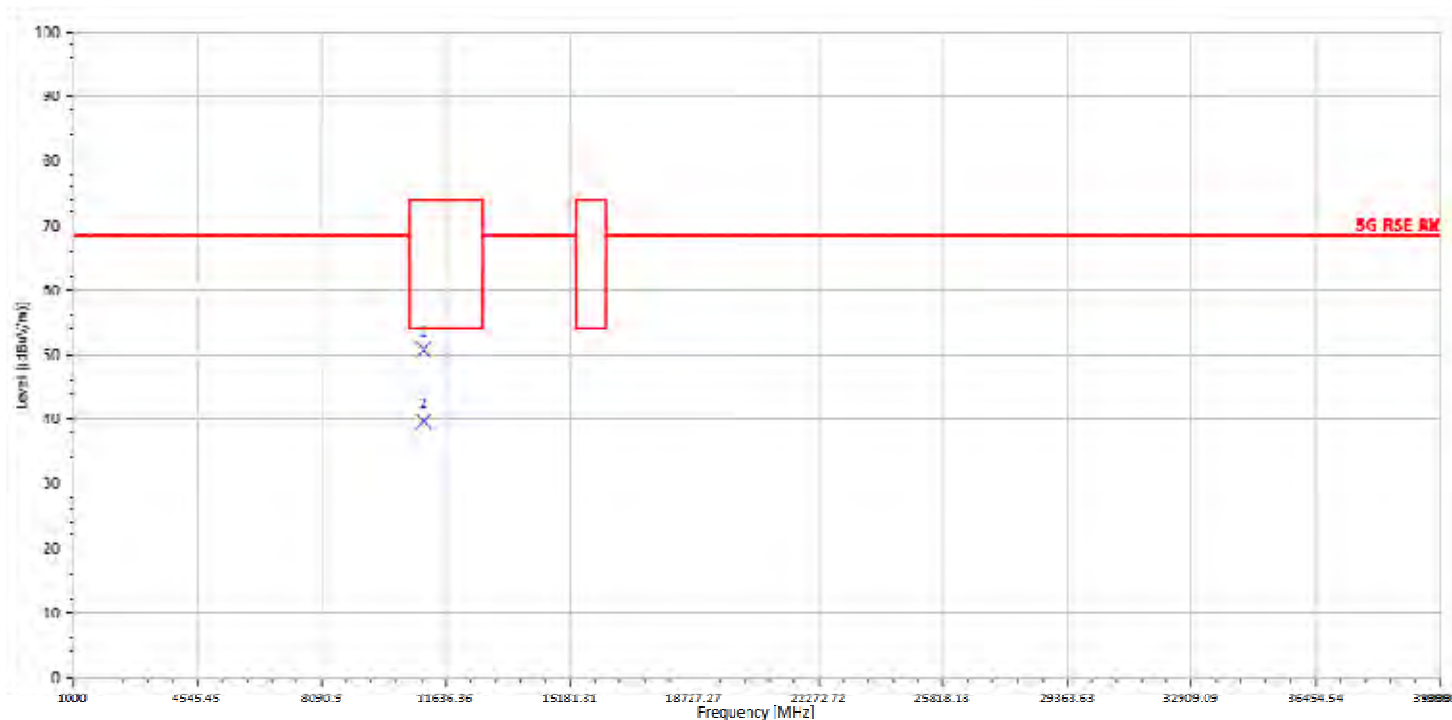
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## Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B3 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5500 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH LOW   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Vertical       |



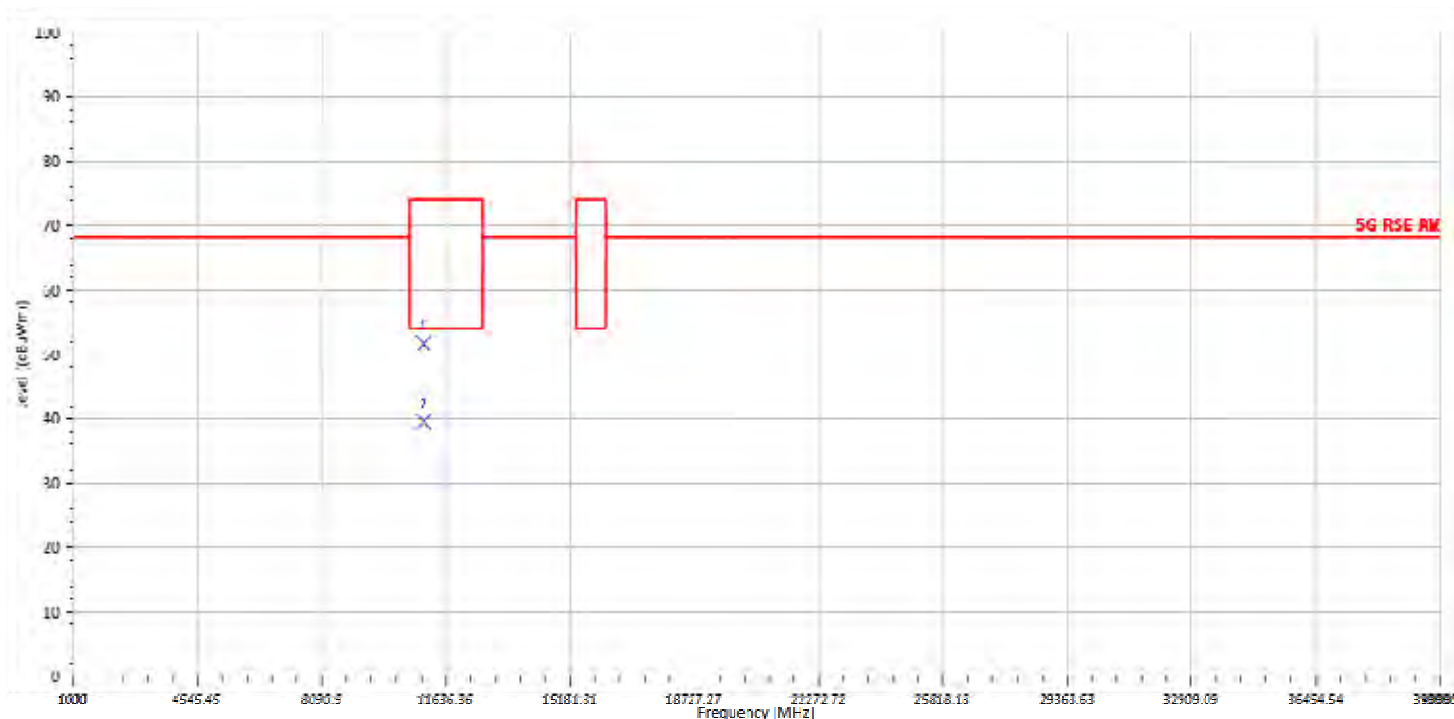
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 11000.00     | H               | Peak                         | 39.01                             | 11.71        | 50.72                  | 74                     | -23.28       |
| 11000.00     | H               | Average                      | 27.95                             | 11.71        | 39.66                  | 54                     | -14.34       |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B3 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5500 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH LOW   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Horizontal     |



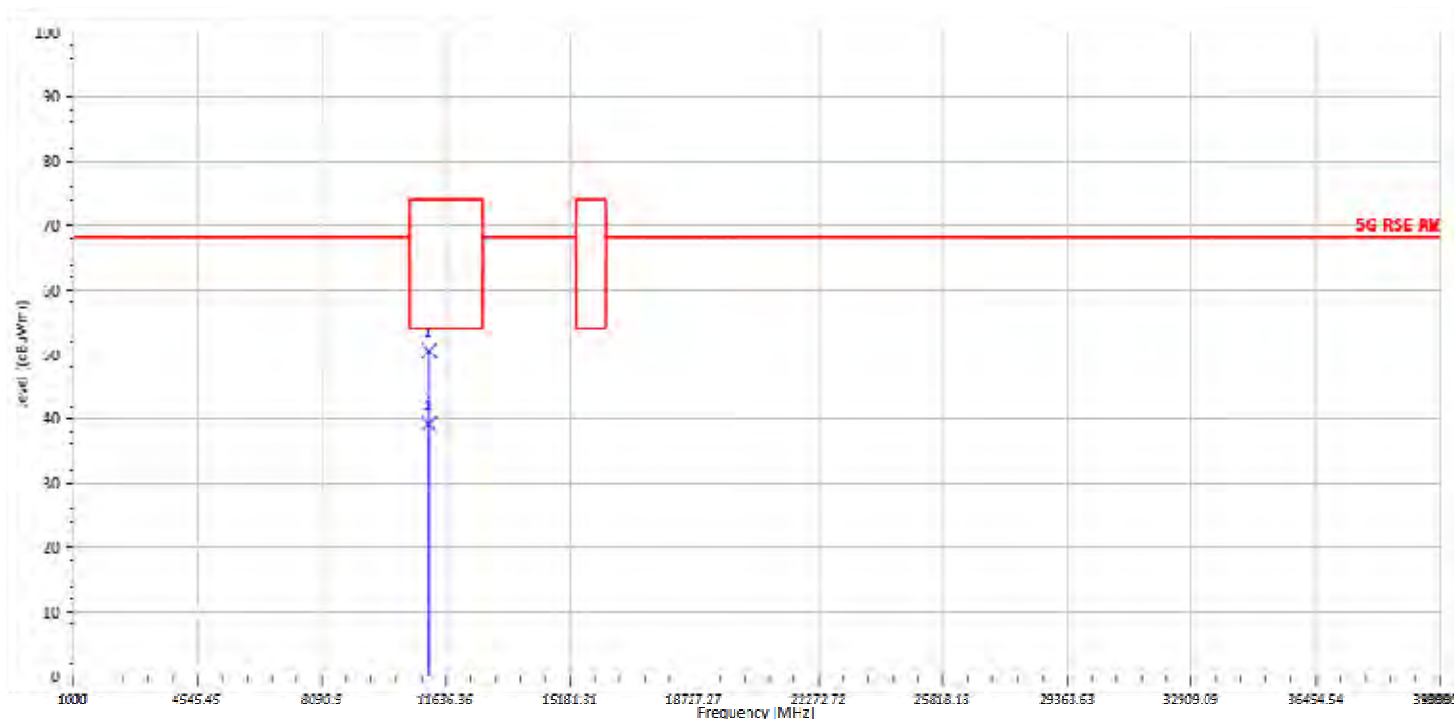
| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level | dB     | FS     | @3m    | dB     |
|          |         | PK/QP/AV | dBμV          |        | dBμV/m | dBμV/m |        |
| 11000.00 | H       | Peak     | 39.97         | 11.71  | 51.68  | 74     | -22.32 |
| 11000.00 | H       | Average  | 27.86         | 11.71  | 39.57  | 54     | -14.43 |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B3 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5580 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH MID   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Vertical       |



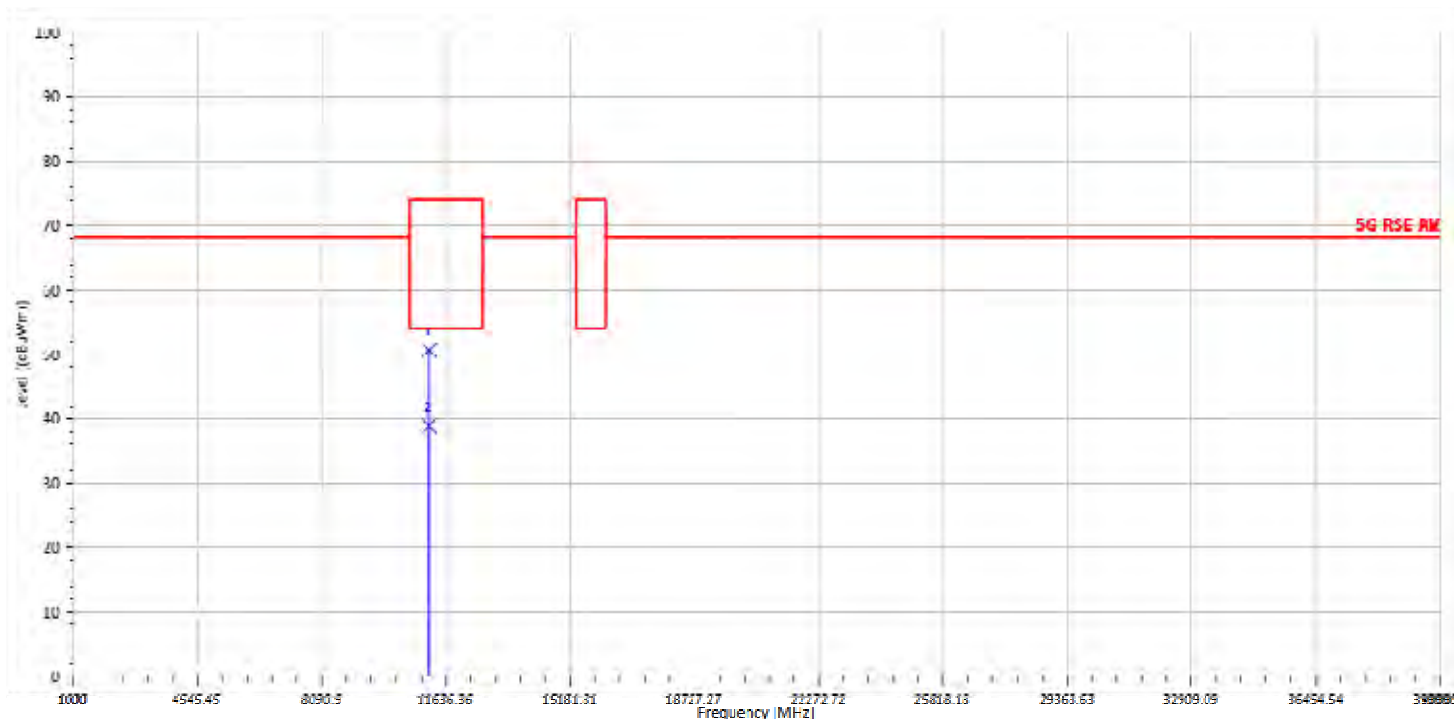
| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|-------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level | dB     | FS     | @3m   | dB     |
|          |         | PK/QP/AV |               |        |        |       |        |
| 11160.00 | H       | Peak     | 39.06         | 11.51  | 50.57  | 74    | -23.43 |
| 11160.00 | H       | Average  | 27.67         | 11.51  | 39.18  | 54    | -14.82 |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B3 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5580 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH MID   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Horizontal     |



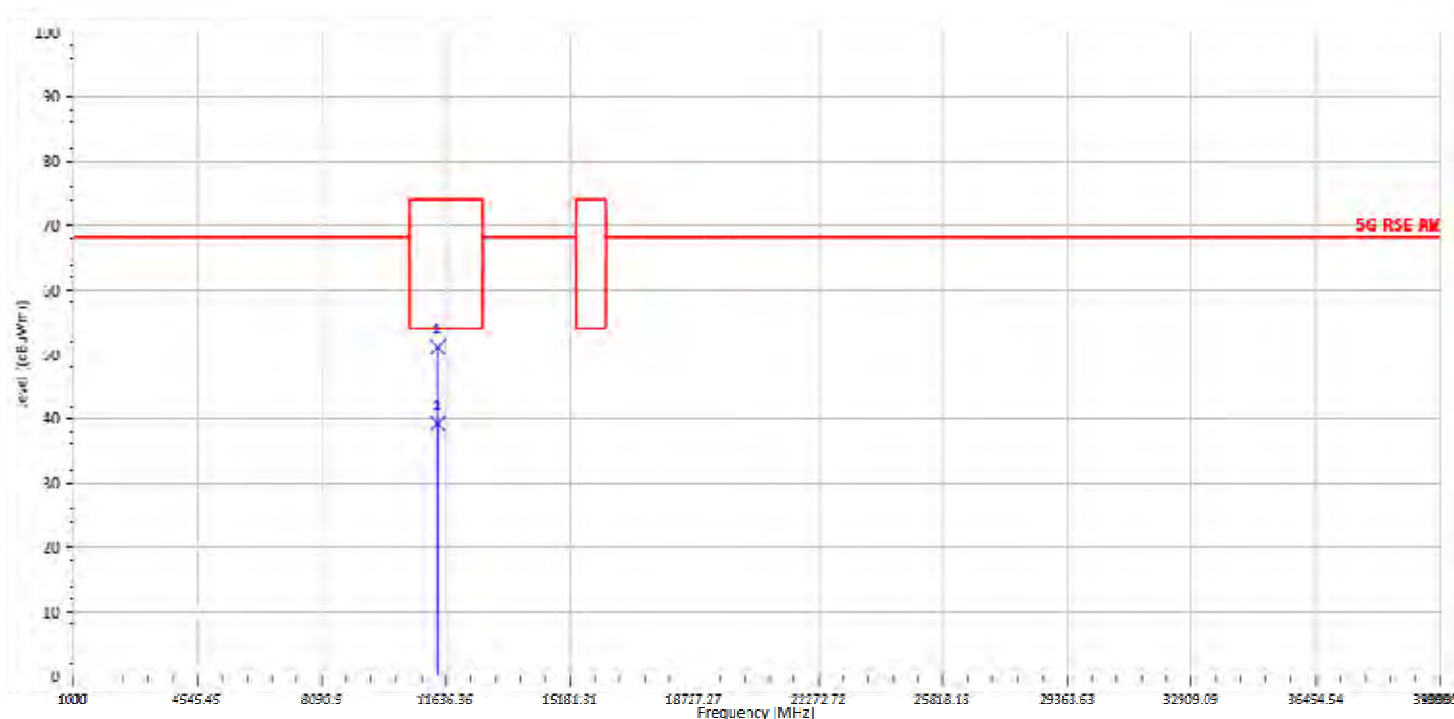
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 11160.00     | H               | Peak                         | 39.19                             | 11.51        | 50.70                  | 74                     | -23.30       |
| 11160.00     | H               | Average                      | 27.43                             | 11.51        | 38.94                  | 54                     | -15.06       |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B3 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5700 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH HIGH  | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Vertical       |



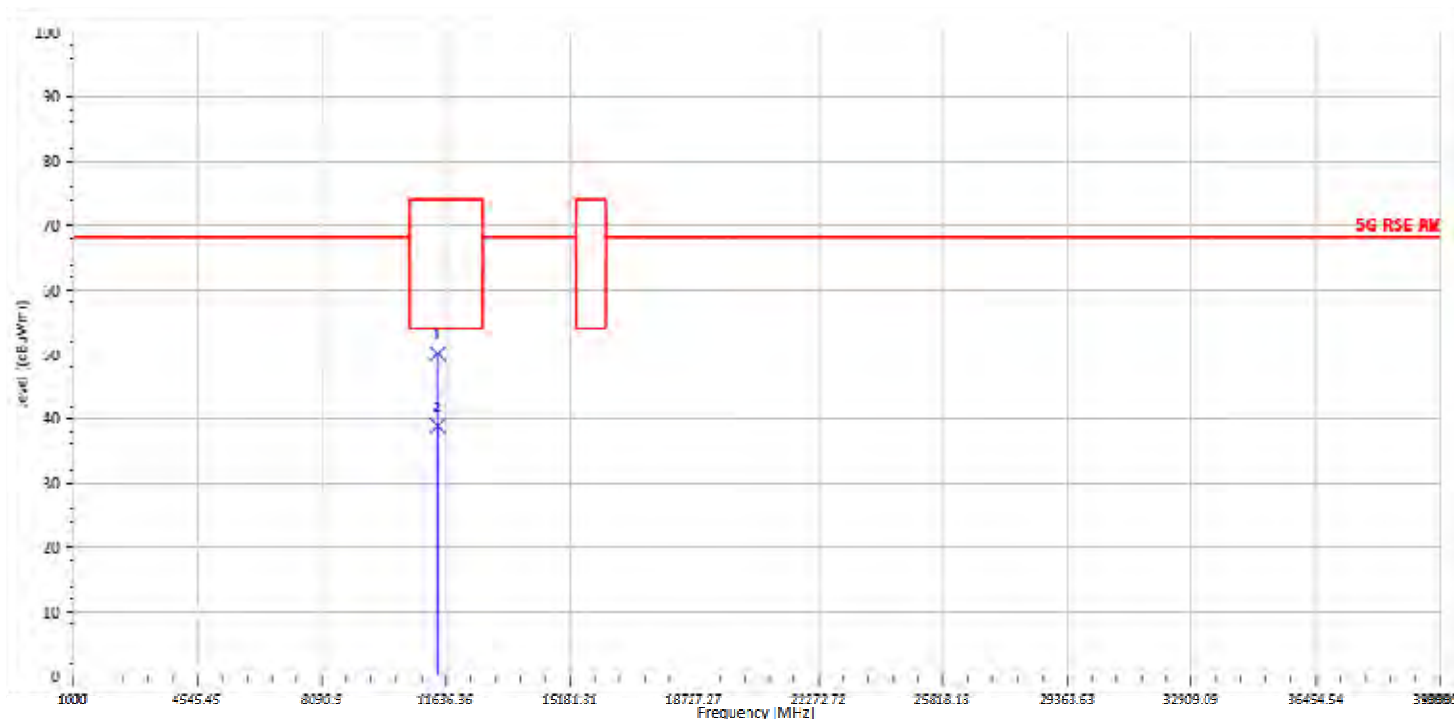
| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level | dB     | FS     | @3m    | dB     |
|          |         | PK/QP/AV | dBμV          |        | dBμV/m | dBμV/m |        |
| 11400.00 | H       | Peak     | 39.54         | 11.60  | 51.14  | 74     | -22.86 |
| 11400.00 | H       | Average  | 27.69         | 11.60  | 39.29  | 54     | -14.71 |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B3 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5700 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH HIGH  | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Horizontal     |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level | dB     | FS     | @3m    | dB     |
|          |         | PK/QP/AV | dBμV          |        | dBμV/m | dBμV/m |        |
| 11400.00 | H       | Peak     | 38.52         | 11.60  | 50.12  | 74     | -23.88 |
| 11400.00 | H       | Average  | 27.36         | 11.60  | 38.96  | 54     | -15.04 |

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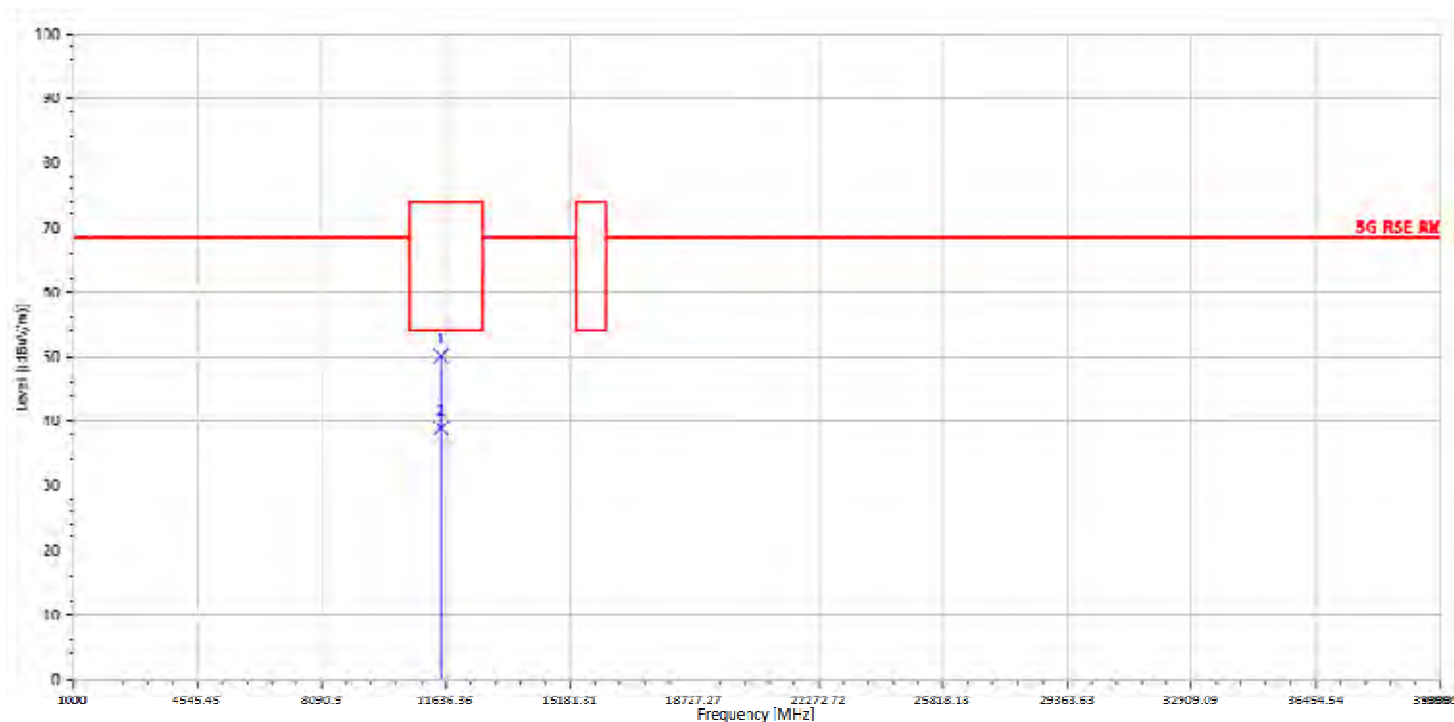
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## Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B4 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5745 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH LOW   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Vertical       |



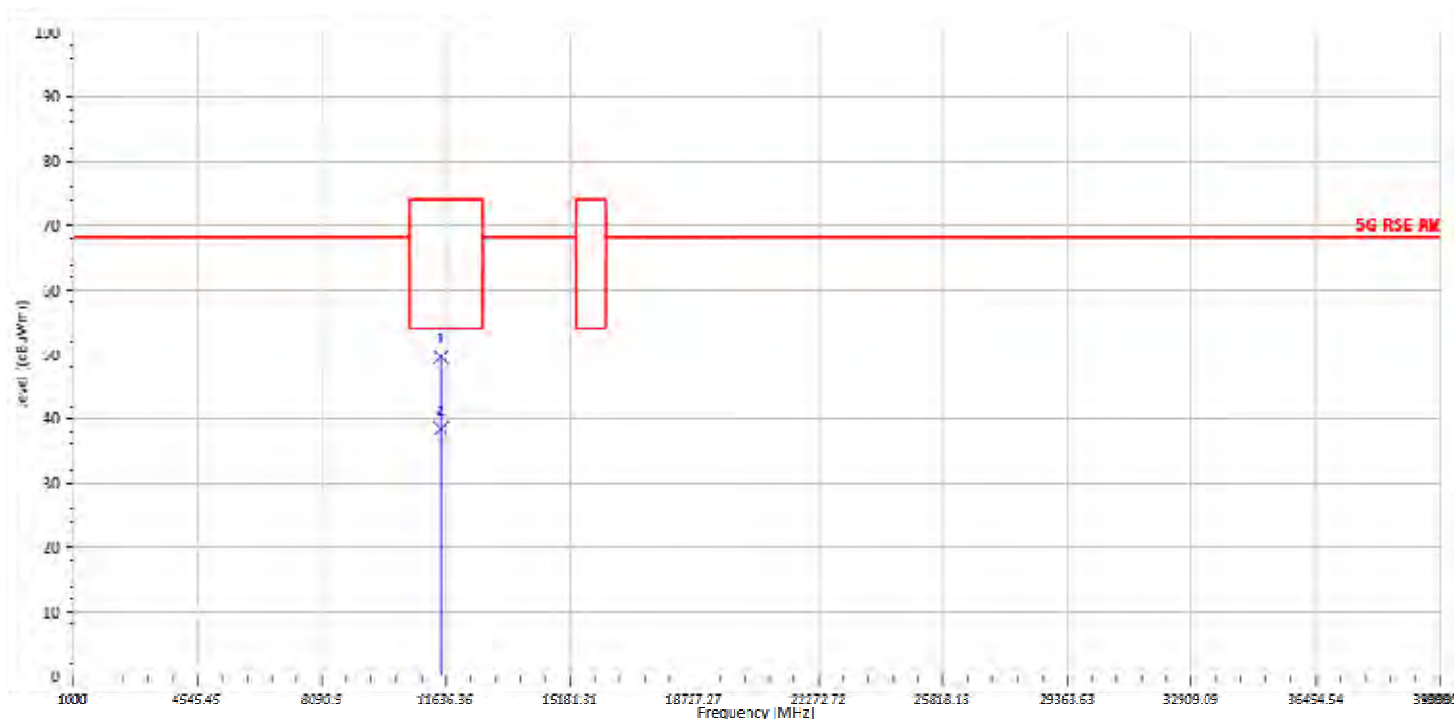
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 11490.00     | H               | Peak                         | 38.89                             | 11.18        | 50.07                  | 74                     | -23.93       |
| 11490.00     | H               | Average                      | 27.70                             | 11.18        | 38.87                  | 54                     | -15.13       |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B4 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5745 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH LOW   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Horizontal     |



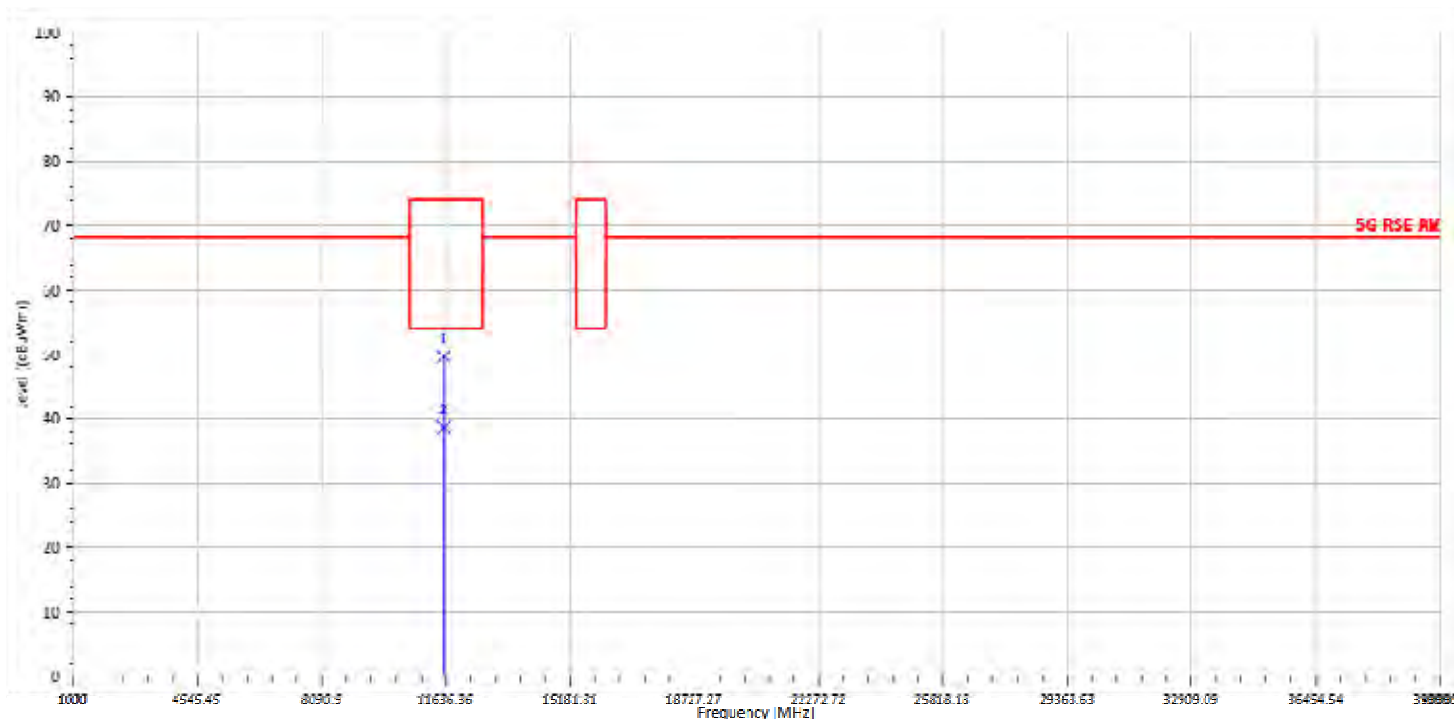
| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level |        | FS     | @3m    |        |
|          |         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 11490.00 | H       | Peak     | 38.46         | 11.18  | 49.64  | 74     | -24.36 |
| 11490.00 | H       | Average  | 27.34         | 11.18  | 38.52  | 54     | -15.48 |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B4 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5785 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH MID   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Vertical       |



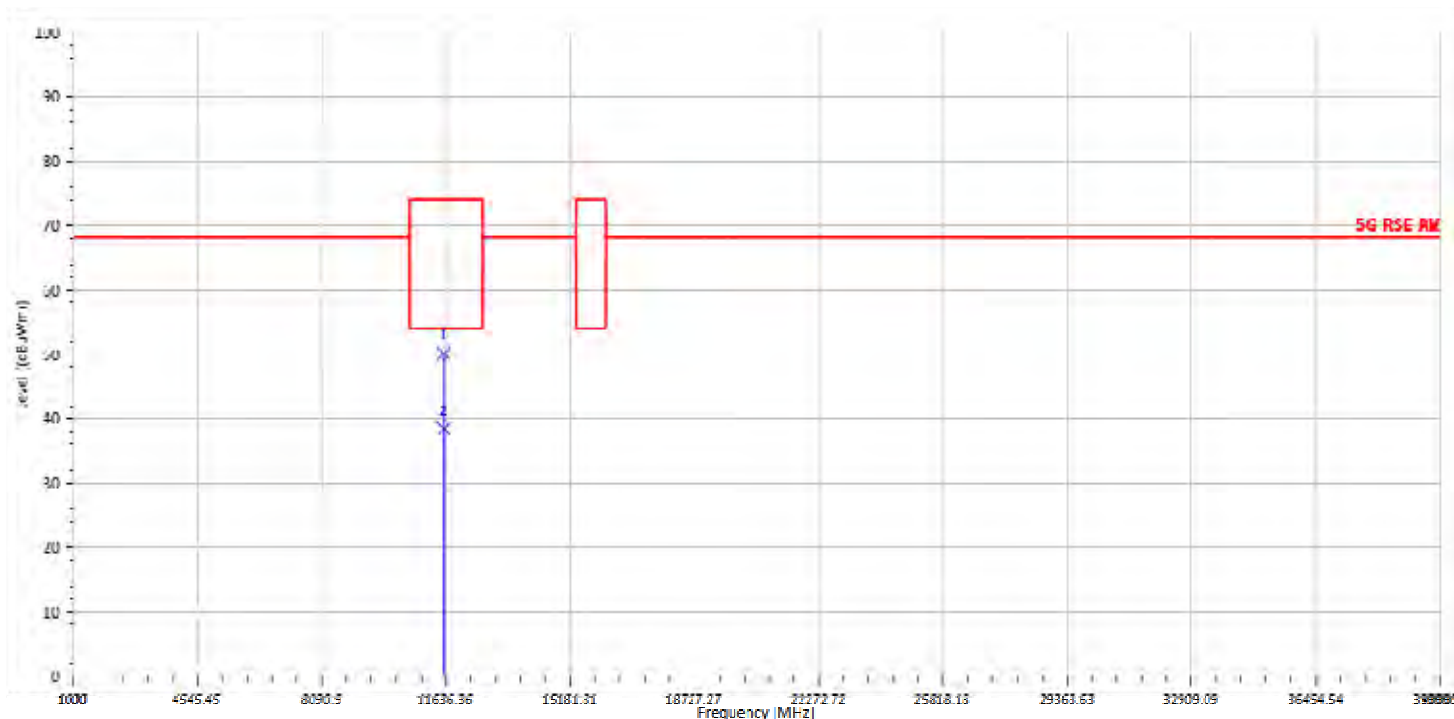
| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level | dB     | FS     | @3m    | dB     |
|          |         | PK/QP/AV | dBμV          |        | dBμV/m | dBμV/m |        |
| 11570.00 | H       | Peak     | 38.61         | 11.06  | 49.67  | 74     | -24.33 |
| 11570.00 | H       | Average  | 27.66         | 11.06  | 38.72  | 54     | -15.28 |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B4 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5785 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH MID   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Horizontal     |



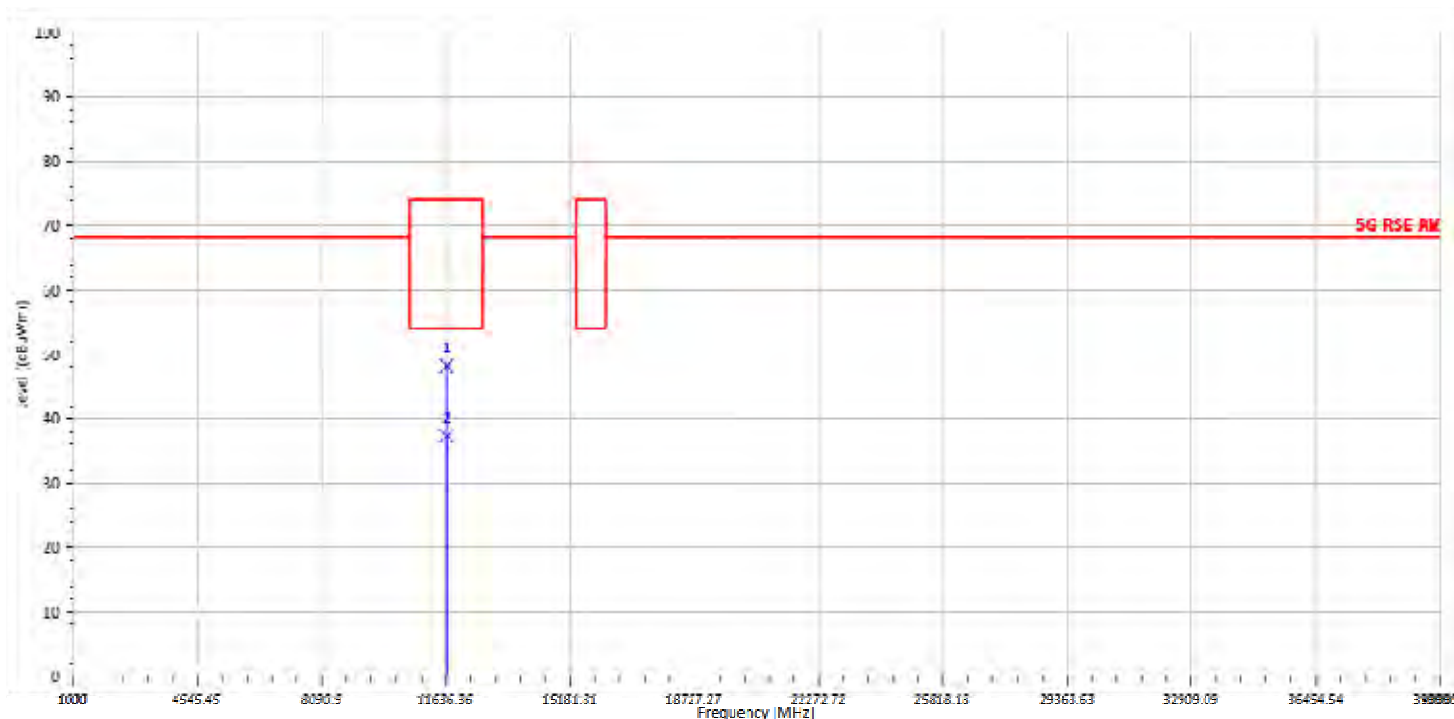
| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level | dB     | FS     | @3m    | dB     |
|          |         | PK/QP/AV | dBμV          |        | dBμV/m | dBμV/m |        |
| 11570.00 | H       | Peak     | 39.05         | 11.06  | 50.12  | 74     | -23.88 |
| 11570.00 | H       | Average  | 27.45         | 11.06  | 38.51  | 54     | -15.49 |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B4 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5825 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH HIGH  | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Vertical       |



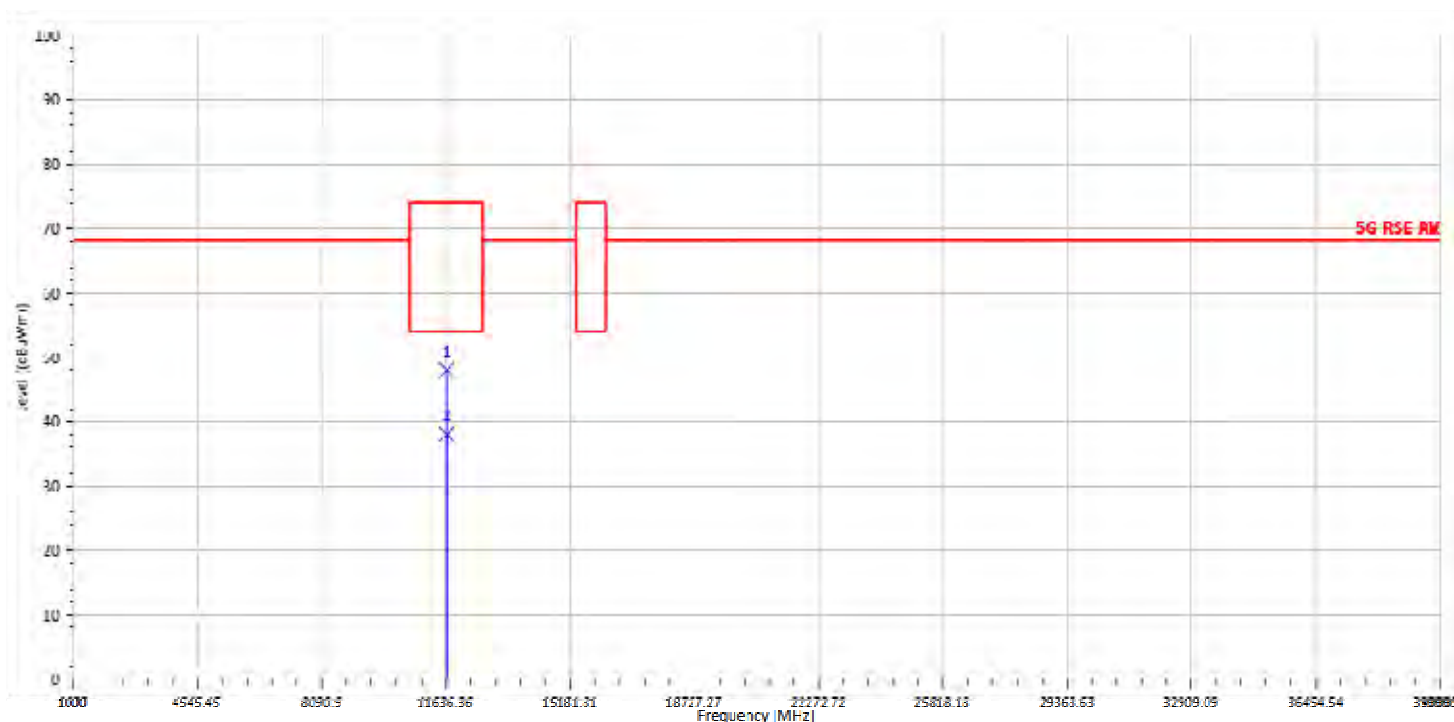
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 11650.00     | H               | Peak                         | 37.52                             | 10.69        | 48.21                  | 74                     | -25.79       |
| 11650.00     | H               | Average                      | 26.67                             | 10.69        | 37.36                  | 54                     | -16.64       |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B4 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5825 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH HIGH  | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Horizontal     |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level | dB     | FS     | @3m    | dB     |
|          |         | PK/QP/AV | dBμV          |        | dBμV/m | dBμV/m |        |
| 11650.00 | H       | Peak     | 37.35         | 10.69  | 48.04  | 74     | -25.96 |
| 11650.00 | H       | Average  | 27.39         | 10.69  | 38.08  | 54     | -15.92 |

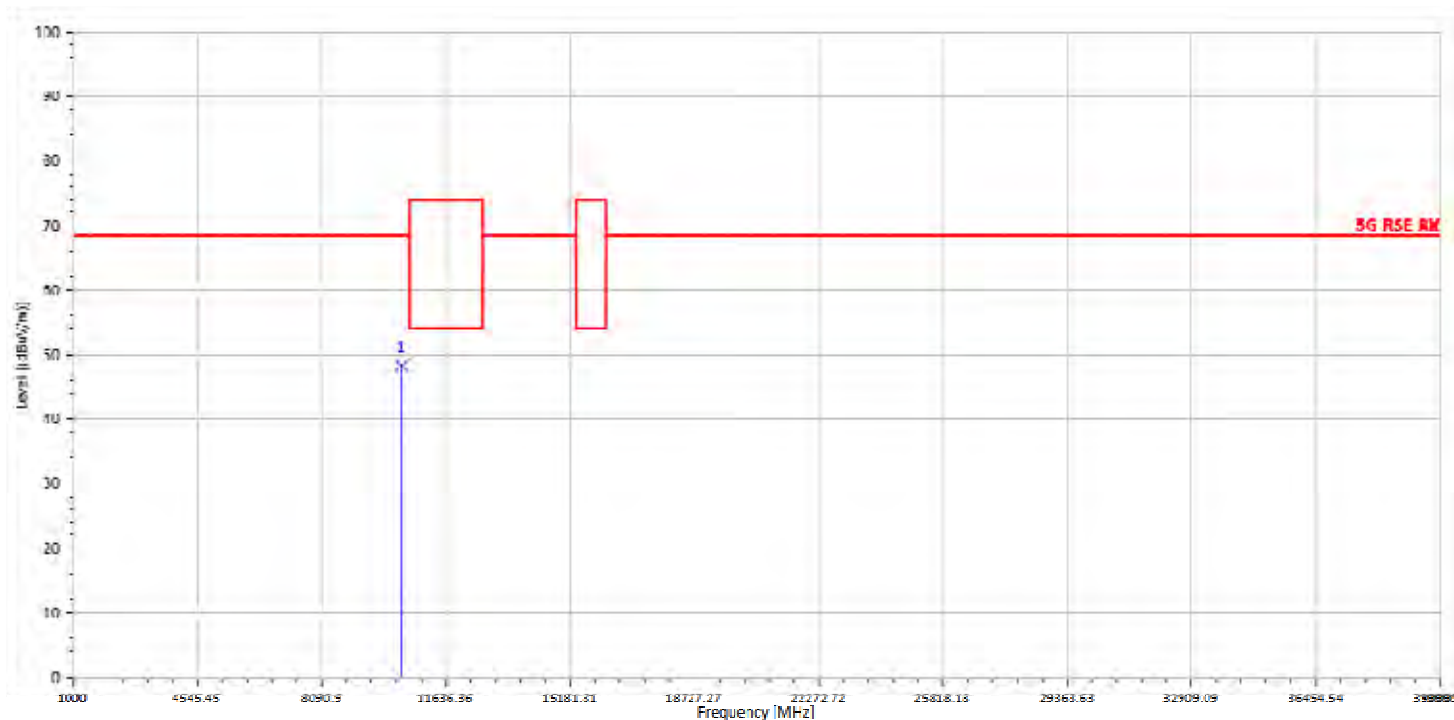
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## Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n40B1 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5190 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH LOW   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Vertical       |



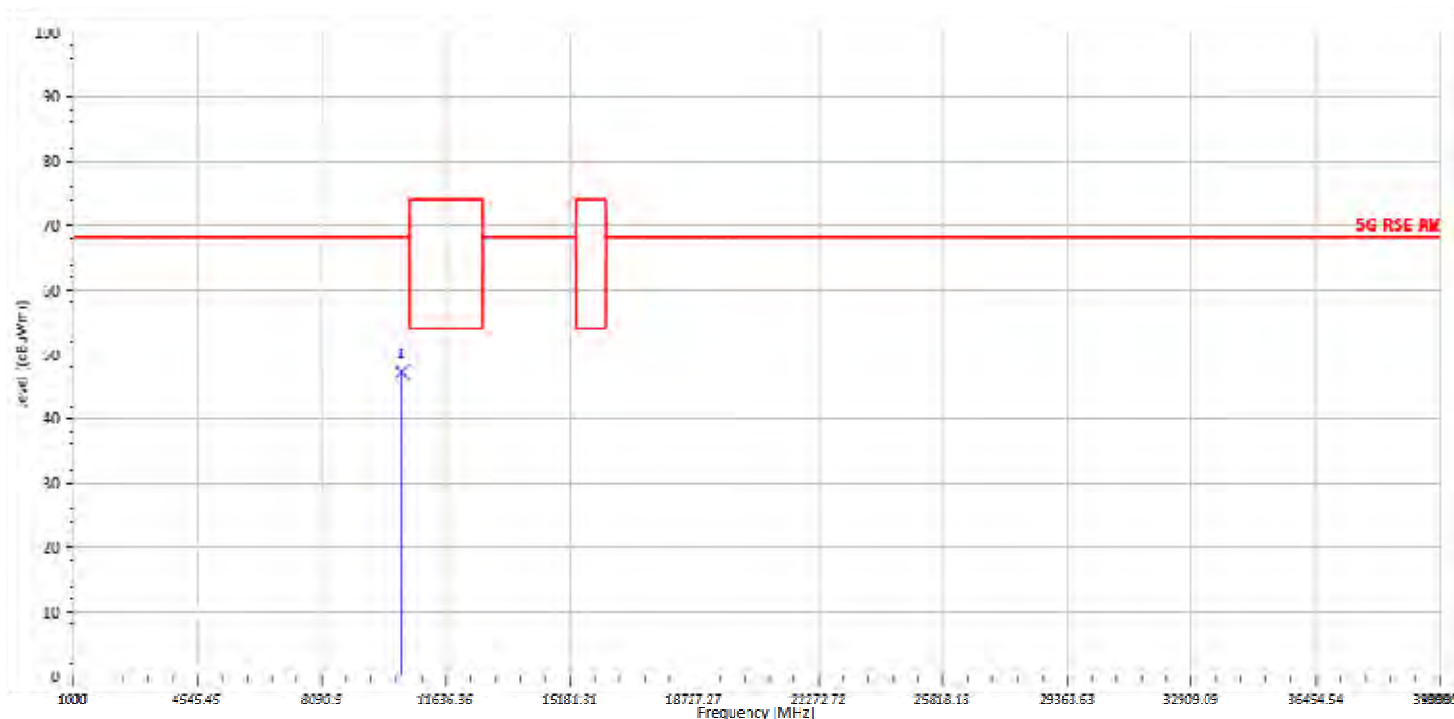
| Freq.    | Note    | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz      | F/H/E/S | PK/QP/AV      | dBμV                   | dB     | dBμV/m    | dBμV/m    | dB     |
| 10380.00 | H       | Peak          | 38.86                  | 9.38   | 48.24     | 68.3      | -20.06 |

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Operation Mode : 802.11n40B1      Test Date : 2017/9/27  
 Fundamental Frequency : 5190 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH LOW      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



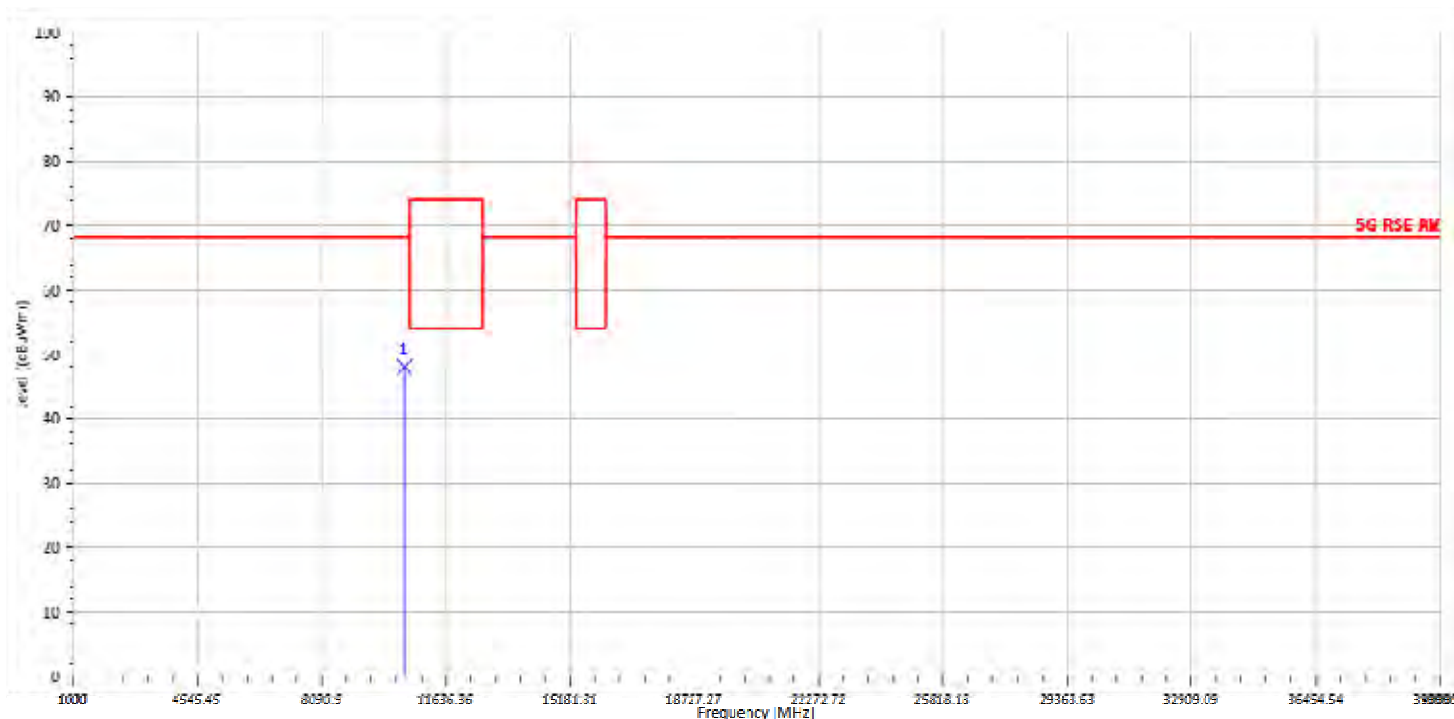
| Freq.    | Note    | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz      | F/H/E/S | PK/QP/AV      | dBμV                   | dB     | dBμV/m    | dBμV/m    | dB     |
| 10380.00 | H       | Peak          | 37.92                  | 9.38   | 47.30     | 68.3      | -21.00 |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n40B1 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5230 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH HIGH  | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Vertical       |



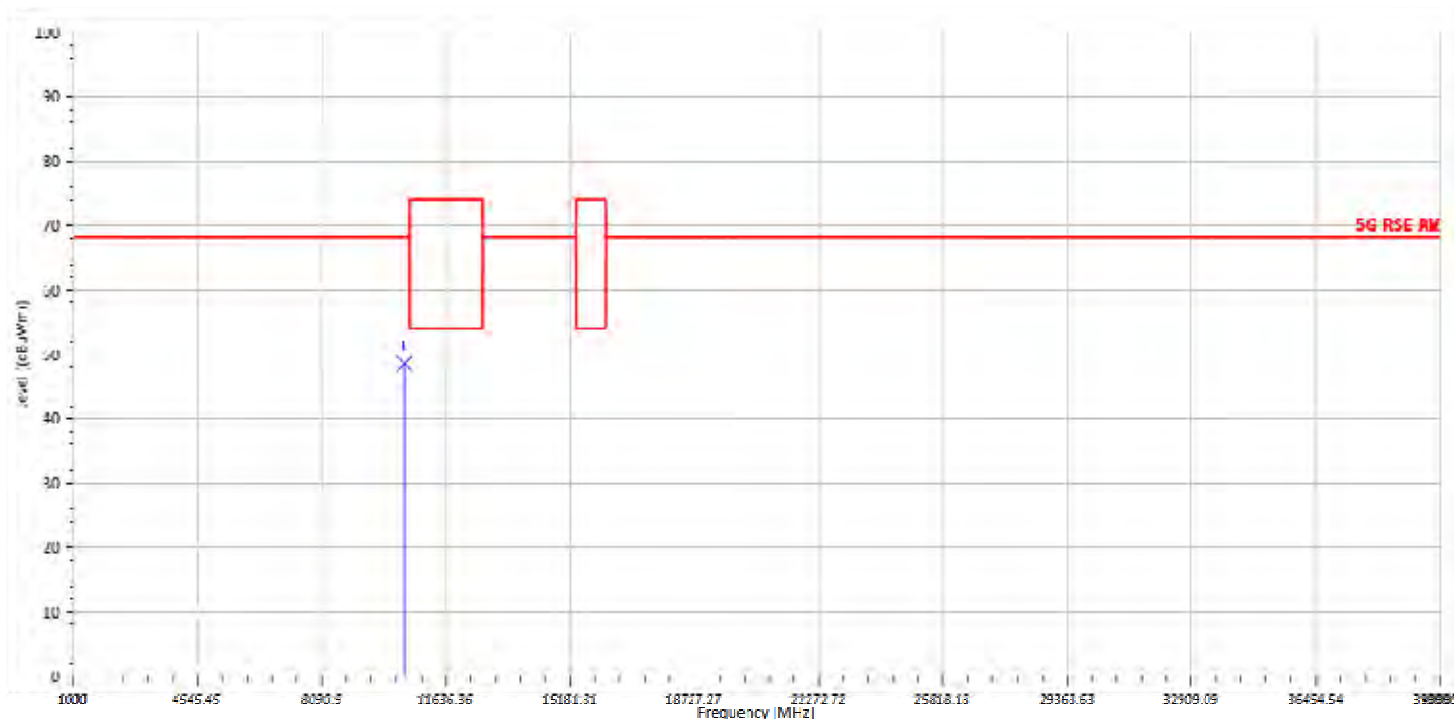
| Freq.    | Note    | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz      | F/H/E/S | PK/QP/AV      | dBμV                   | dB     | dBμV/m    | dBμV/m    | dB     |
| 10460.00 | H       | Peak          | 38.45                  | 9.61   | 48.06     | 68.3      | -20.24 |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n40B1 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5230 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH HIGH  | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Horizontal     |



| Freq.    | Note    | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz      | F/H/E/S | PK/QP/AV      | dBμV                   | dB     | dBμV/m    | dBμV/m    | dB     |
| 10460.00 | H       | Peak          | 38.97                  | 9.61   | 48.57     | 68.3      | -19.73 |

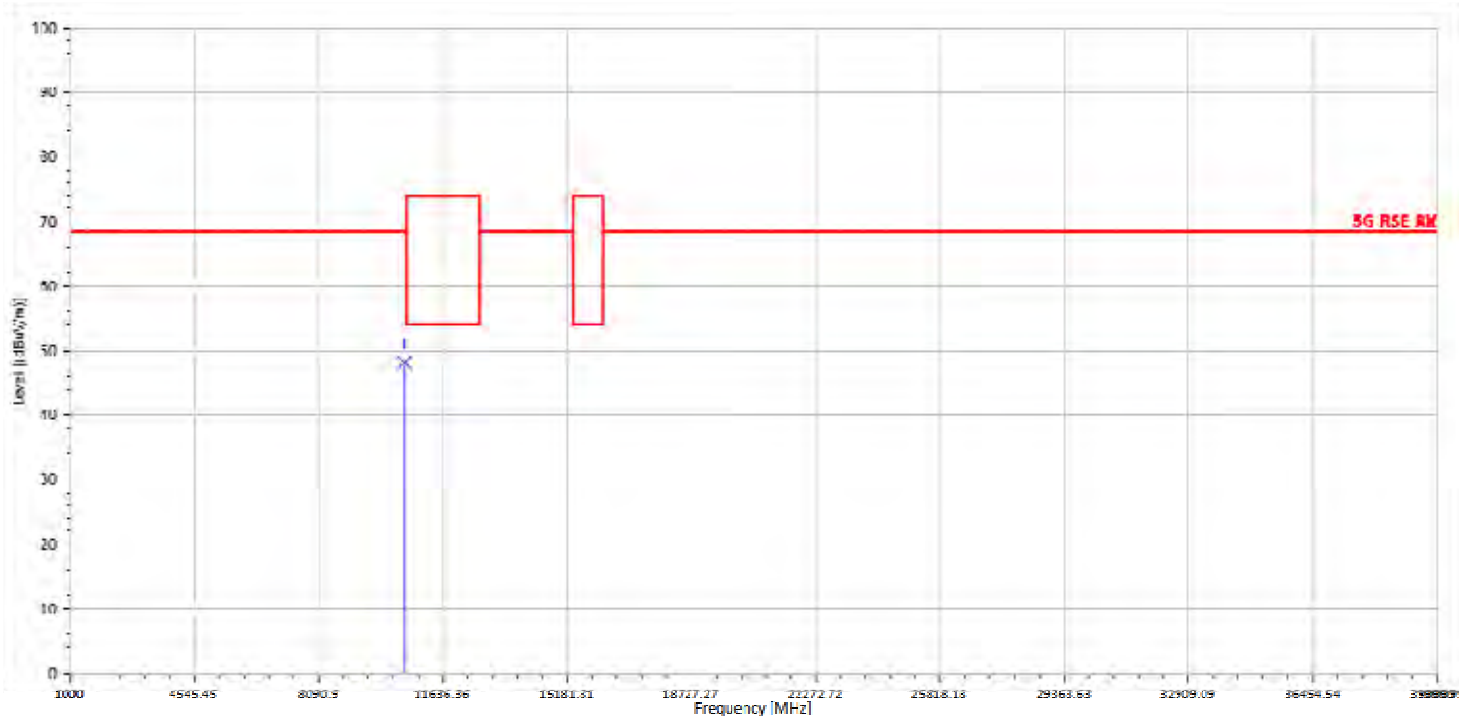
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## Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n40B2 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5270 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH LOW   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Vertical       |



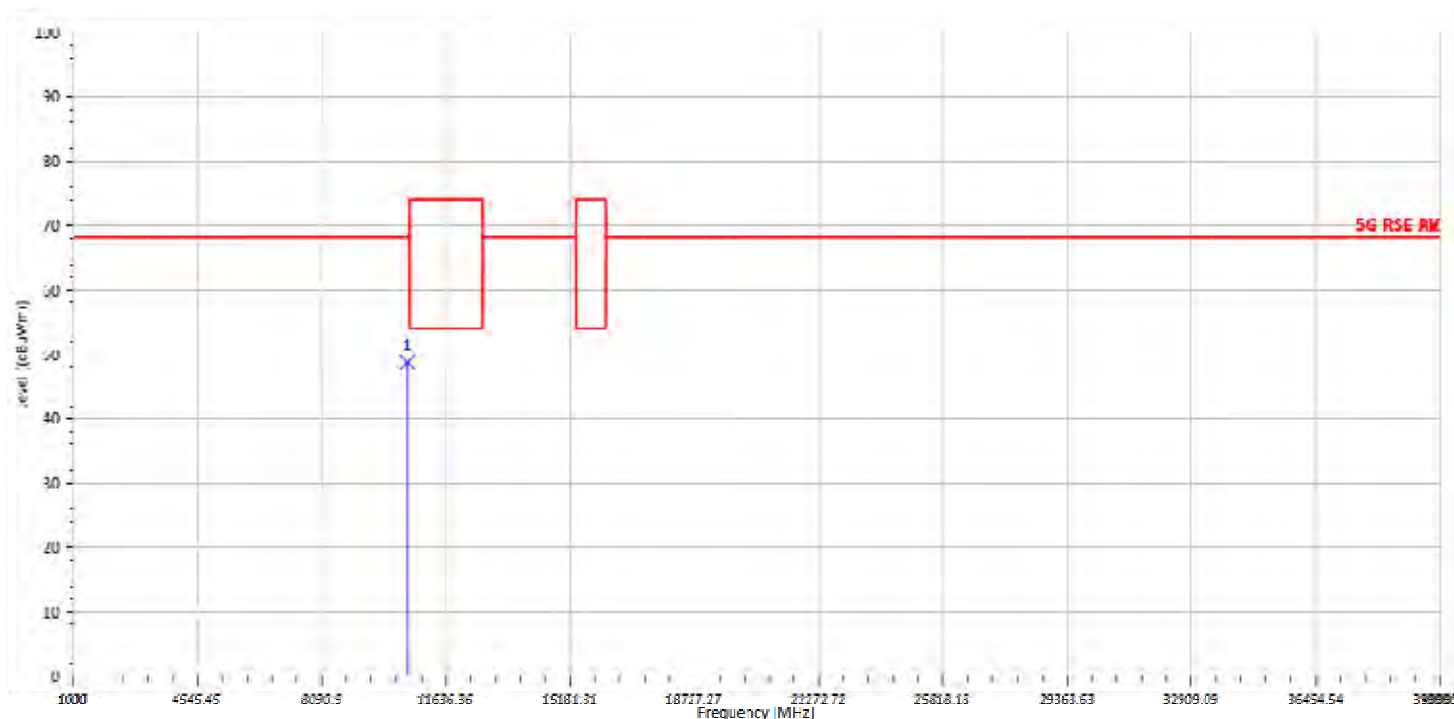
| Freq.    | Note    | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz      | F/H/E/S | PK/QP/AV      | dBμV                   | dB     | dBμV/m    | dBμV/m    | dB     |
| 10540.00 | H       | Peak          | 38.26                  | 9.87   | 48.13     | 68.3      | -20.17 |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n40B2 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5270 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH LOW   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Horizontal     |



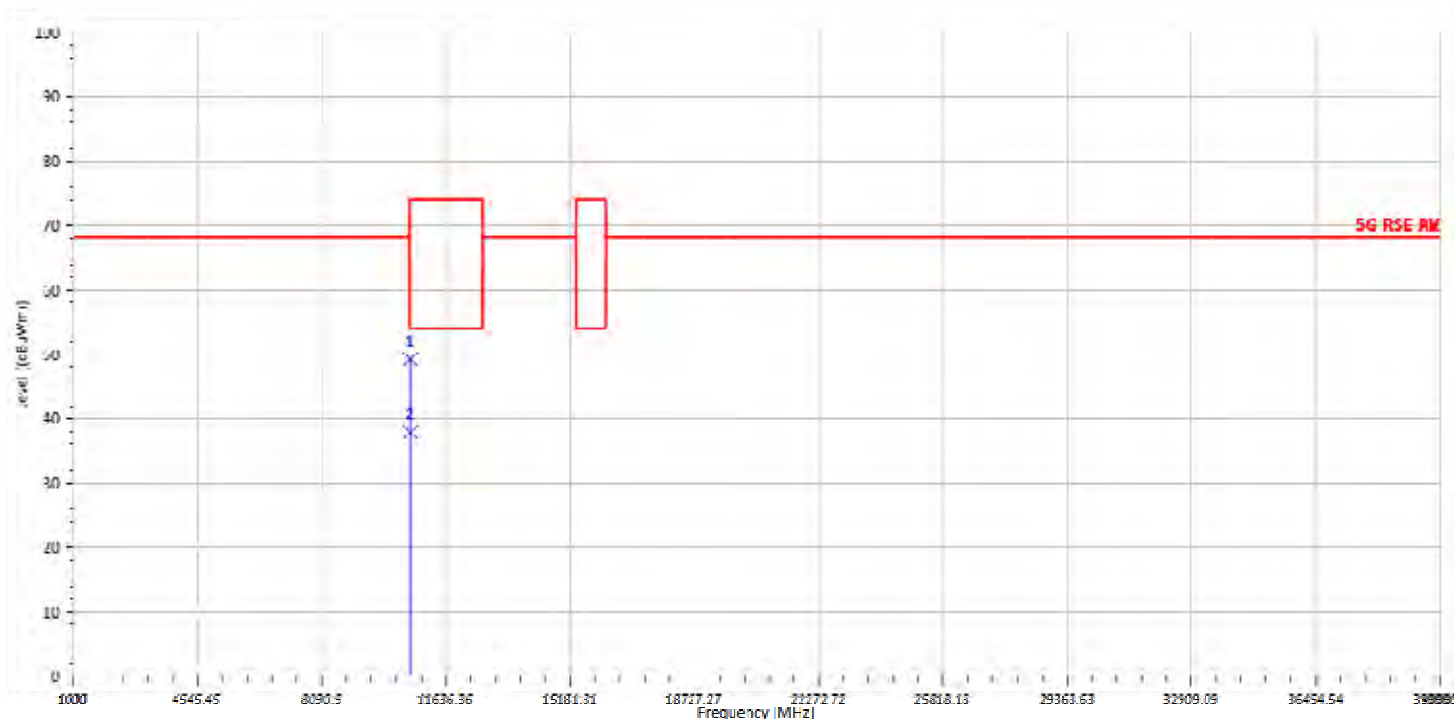
| Freq.    | Note    | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz      | F/H/E/S | PK/QP/AV      | dBμV                   | dB     | dBμV/m    | dBμV/m    | dB     |
| 10540.00 | H       | Peak          | 38.89                  | 9.87   | 48.76     | 68.3      | -19.54 |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n40B2 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5310 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH HIGH  | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Vertical       |



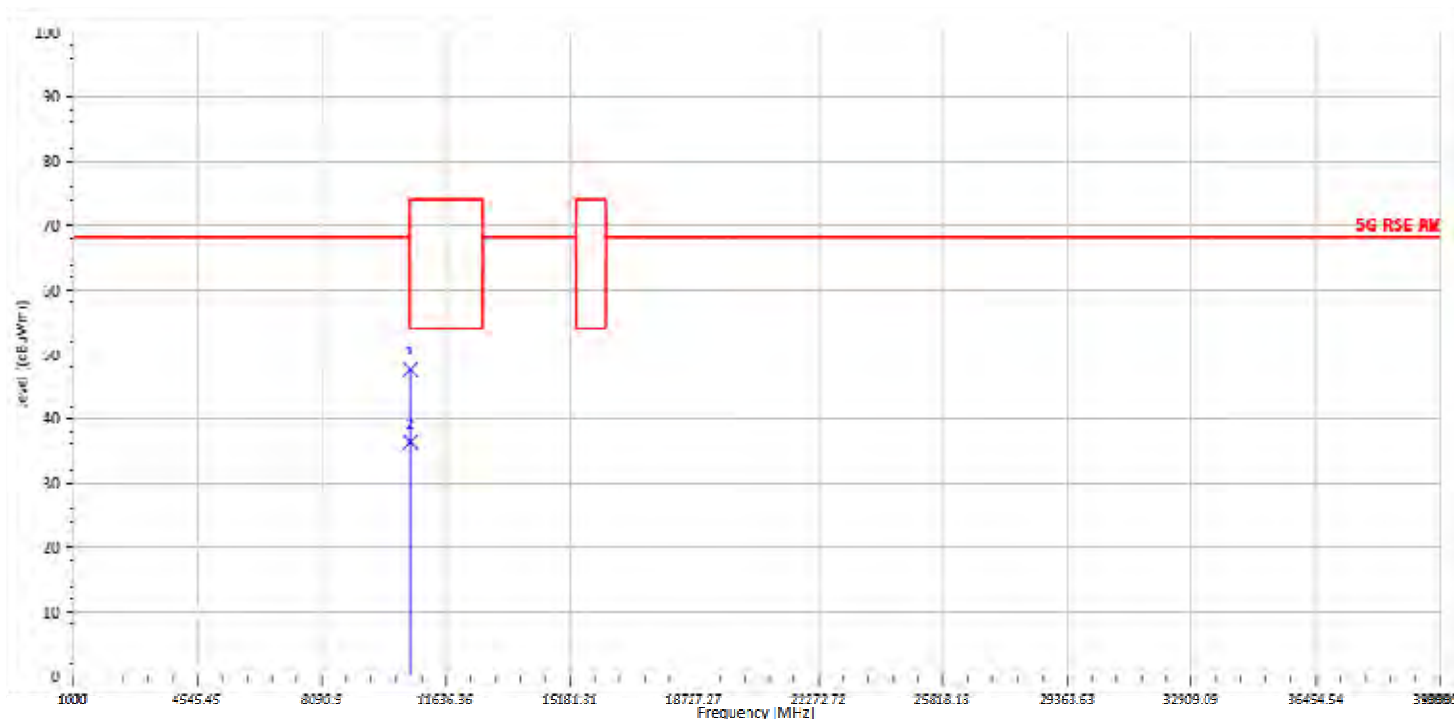
| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level |        | FS     | @3m    |        |
|          |         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 10620.00 | H       | Peak     | 39.19         | 10.11  | 49.30  | 74     | -24.70 |
| 10620.00 | H       | Average  | 27.85         | 10.11  | 37.95  | 54     | -16.05 |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n40B2 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5310 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH HIGH  | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Horizontal     |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level |        | FS     | @3m    |        |
|          |         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 10620.00 | H       | Peak     | 37.57         | 10.11  | 47.68  | 74     | -26.32 |
| 10620.00 | H       | Average  | 26.24         | 10.11  | 36.35  | 54     | -17.65 |

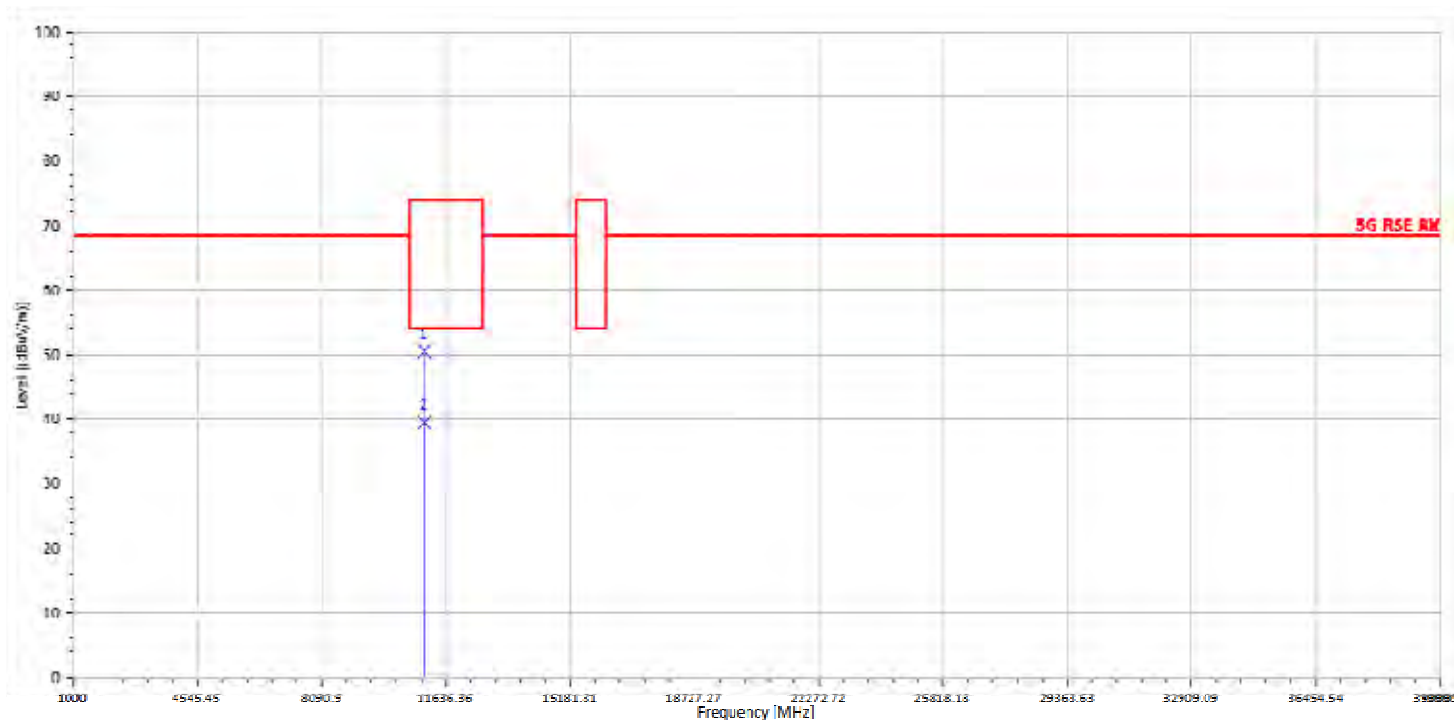
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## Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n40B3 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5510 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH LOW   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Vertical       |



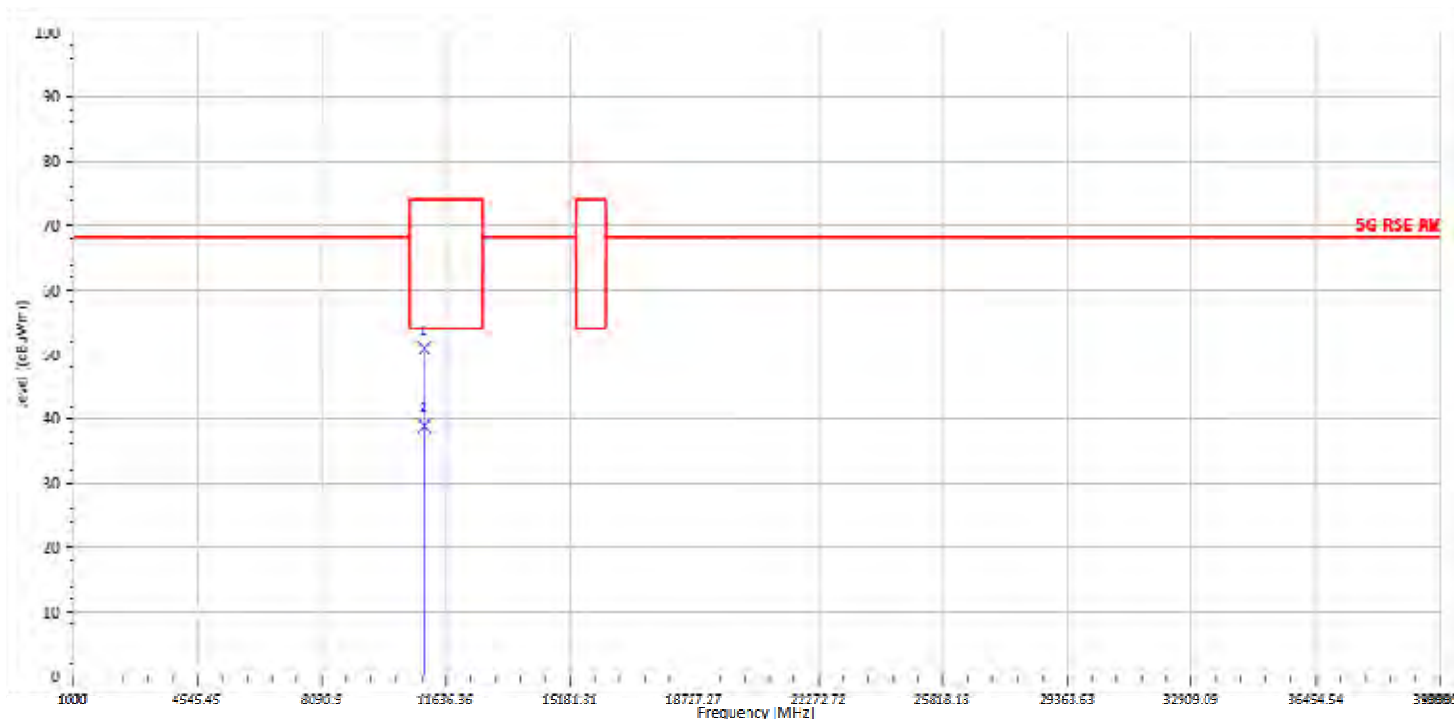
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 11020.00     | H               | Peak                         | 38.85                             | 11.60        | 50.45                  | 74                     | -23.55       |
| 11020.00     | H               | Average                      | 27.85                             | 11.60        | 39.45                  | 54                     | -14.55       |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n40B3 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5510 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH LOW   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Horizontal     |



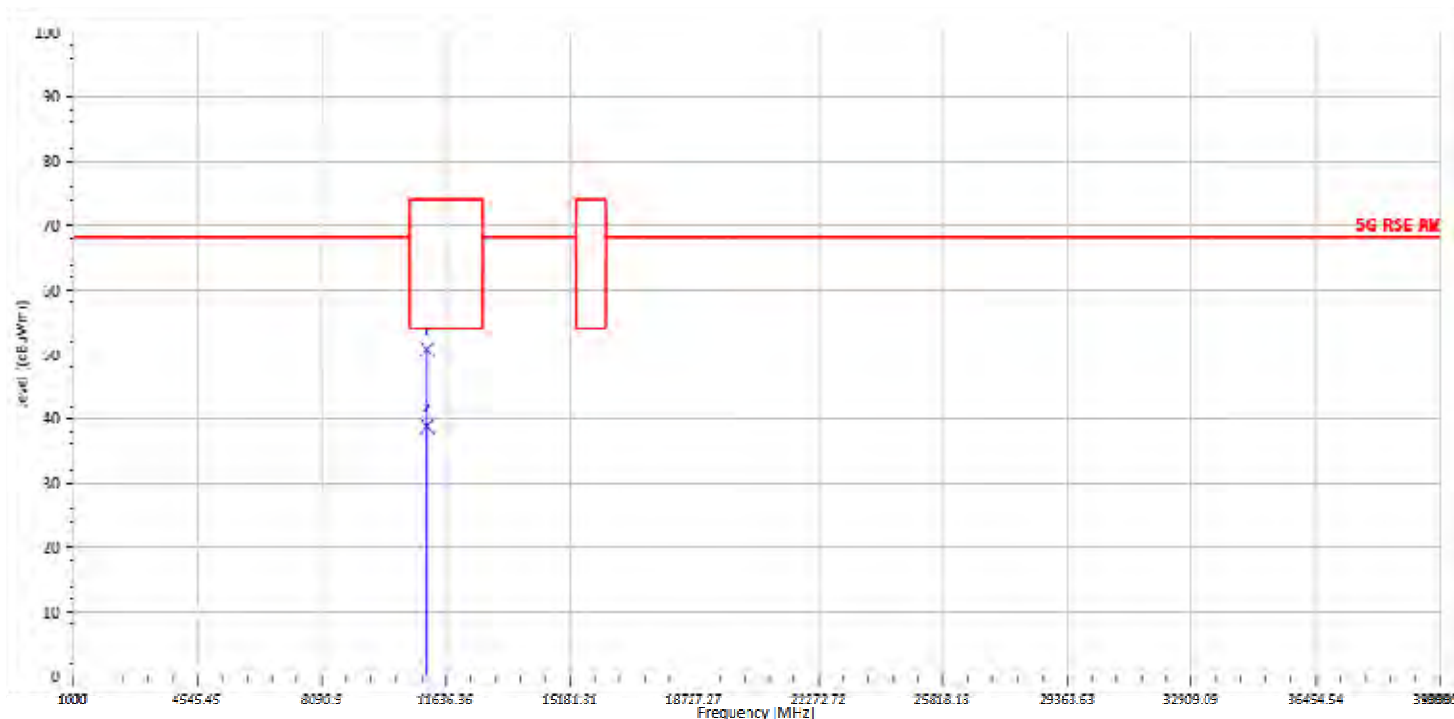
| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level |        | FS     | @3m    |        |
|          |         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 11020.00 | H       | Peak     | 39.35         | 11.60  | 50.95  | 74     | -23.05 |
| 11020.00 | H       | Average  | 27.33         | 11.60  | 38.93  | 54     | -15.07 |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n40B3 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5550 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH MID   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Vertical       |



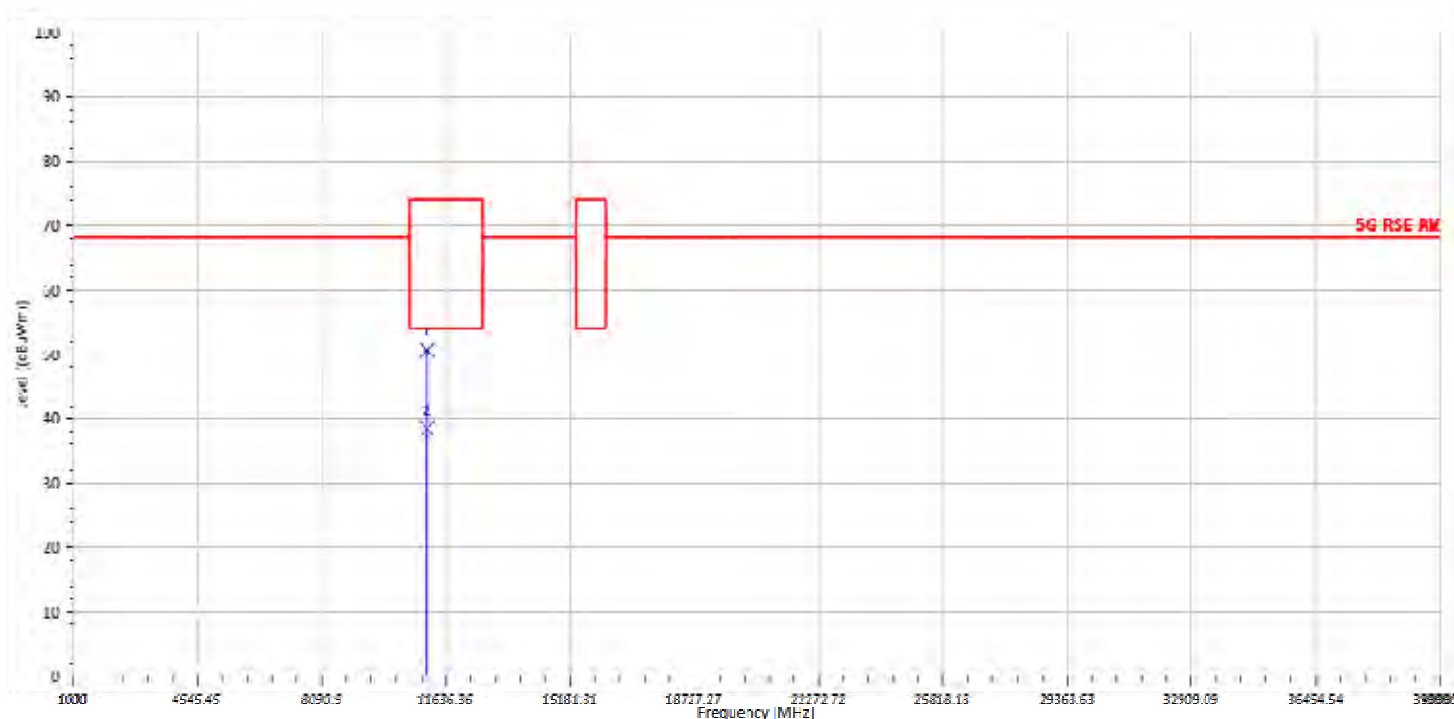
| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level | dB     | FS     | @3m    | dB     |
|          |         | PK/QP/AV | dBμV          |        | dBμV/m | dBμV/m |        |
| 11100.00 | H       | Peak     | 39.66         | 11.15  | 50.81  | 74     | -23.19 |
| 11100.00 | H       | Average  | 27.74         | 11.15  | 38.89  | 54     | -15.12 |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n40B3 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5550 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH MID   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Horizontal     |



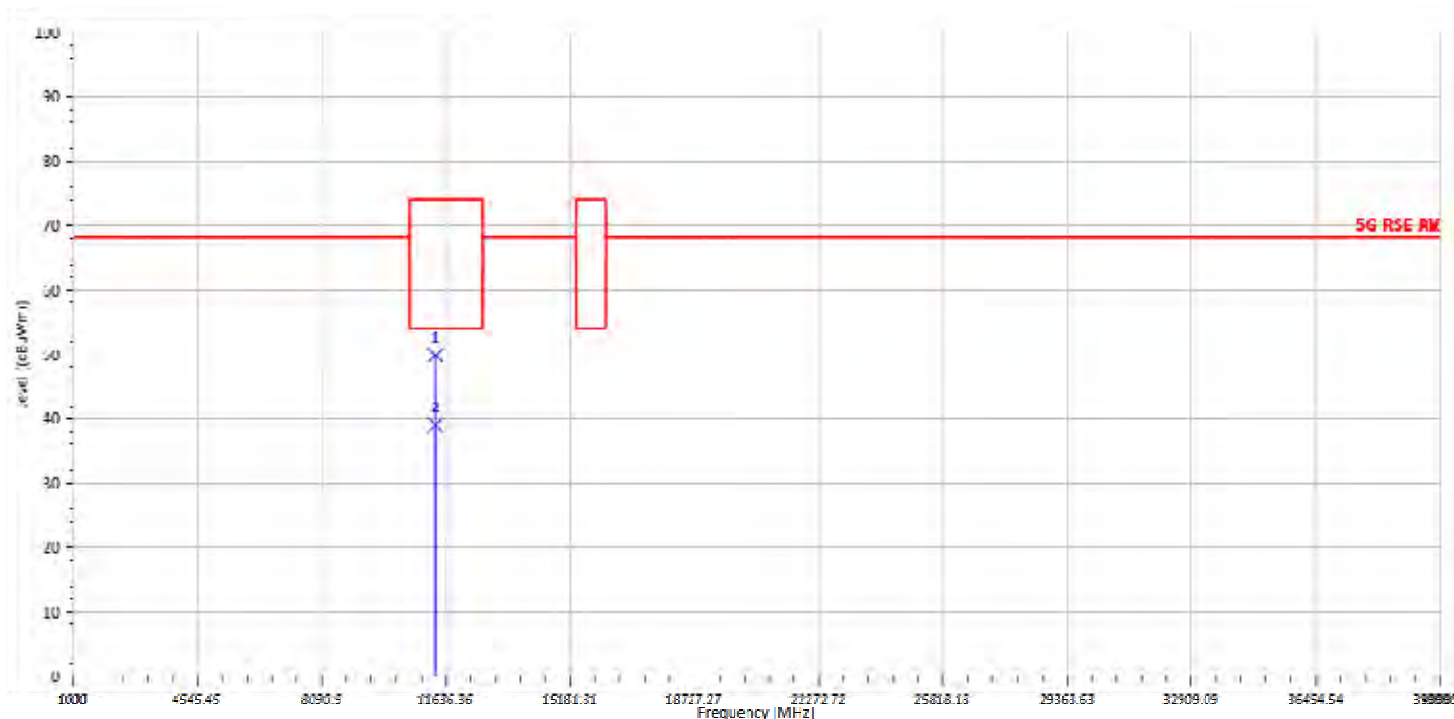
| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level | dB     | FS     | @3m    | dB     |
|          |         | PK/QP/AV | dBμV          |        | dBμV/m | dBμV/m |        |
| 11100.00 | H       | Peak     | 39.52         | 11.15  | 50.67  | 74     | -23.33 |
| 11100.00 | H       | Average  | 27.38         | 11.15  | 38.53  | 54     | -15.47 |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n40B3 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5670 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH HIGH  | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Vertical       |



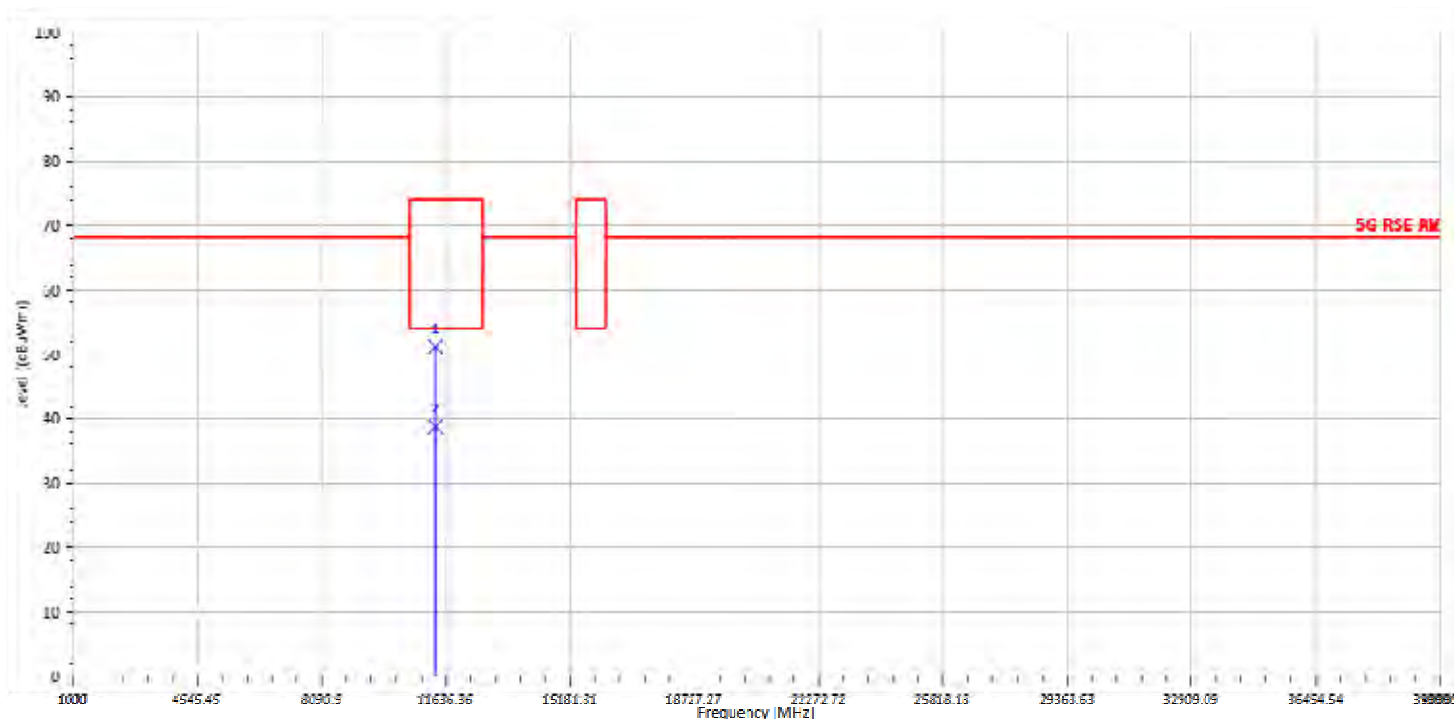
| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level | dB     | FS     | @3m    | dB     |
|          |         | PK/QP/AV | dBμV          |        | dBμV/m | dBμV/m |        |
| 11340.00 | H       | Peak     | 38.52         | 11.37  | 49.89  | 74     | -24.11 |
| 11340.00 | H       | Average  | 27.70         | 11.37  | 39.07  | 54     | -14.93 |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n40B3 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5670 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH HIGH  | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Horizontal     |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level | dB     | FS     | @3m    | dB     |
|          |         | PK/QP/AV | dBμV          |        | dBμV/m | dBμV/m |        |
| 11340.00 | H       | Peak     | 39.85         | 11.37  | 51.22  | 74     | -22.78 |
| 11340.00 | H       | Average  | 27.46         | 11.37  | 38.83  | 54     | -15.17 |

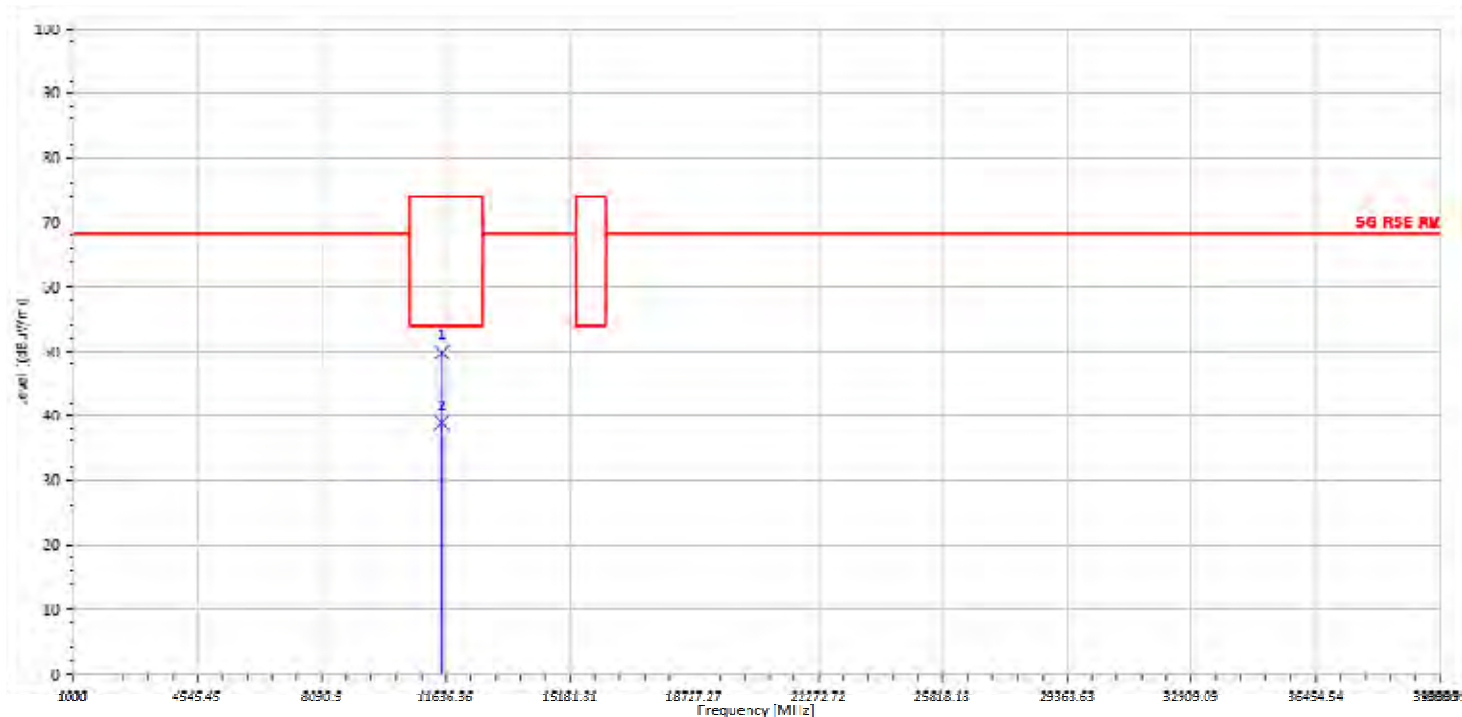
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## Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n40B4 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5755 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH LOW   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Vertical       |



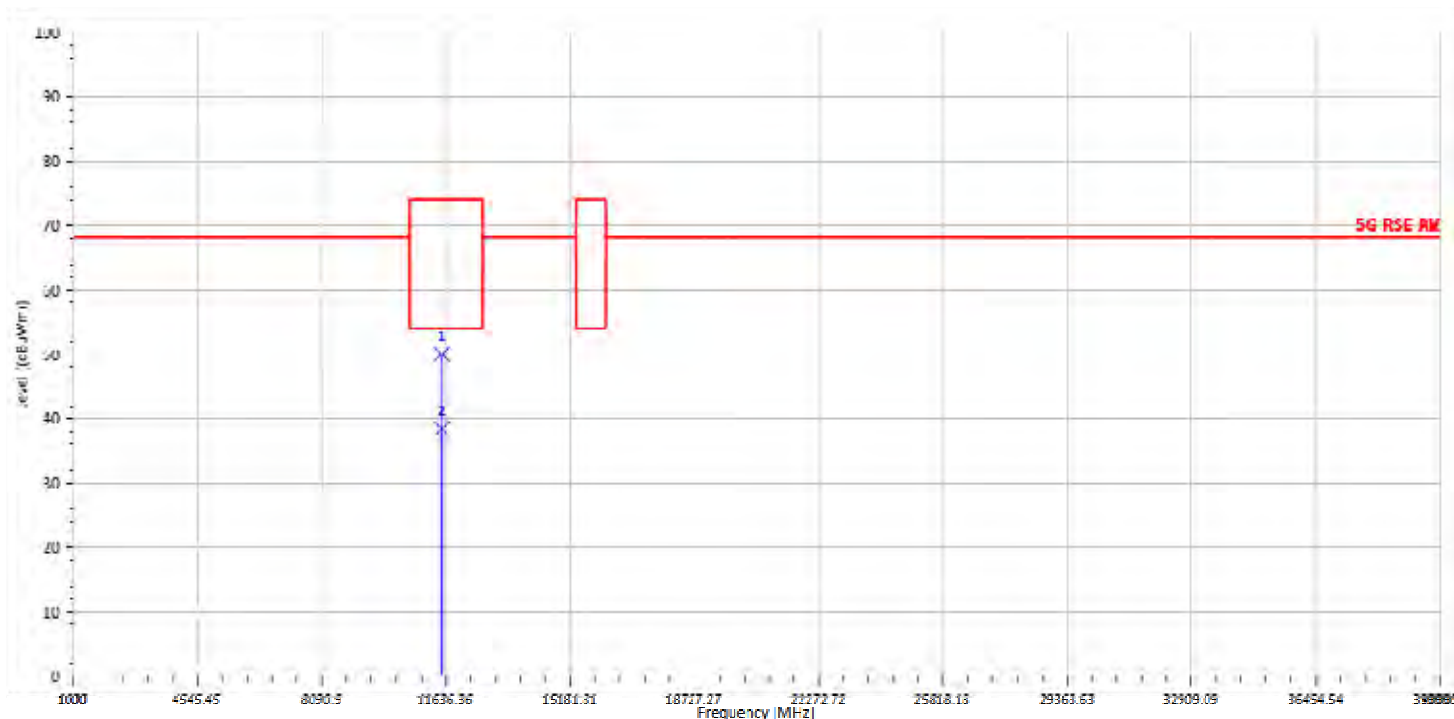
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 11510.00     | H               | Peak                         | 38.68                             | 11.12        | 49.80                  | 74                     | -24.20       |
| 11510.00     | H               | Average                      | 27.78                             | 11.12        | 38.90                  | 54                     | -15.10       |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n40B4 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5755 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH LOW   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Horizontal     |



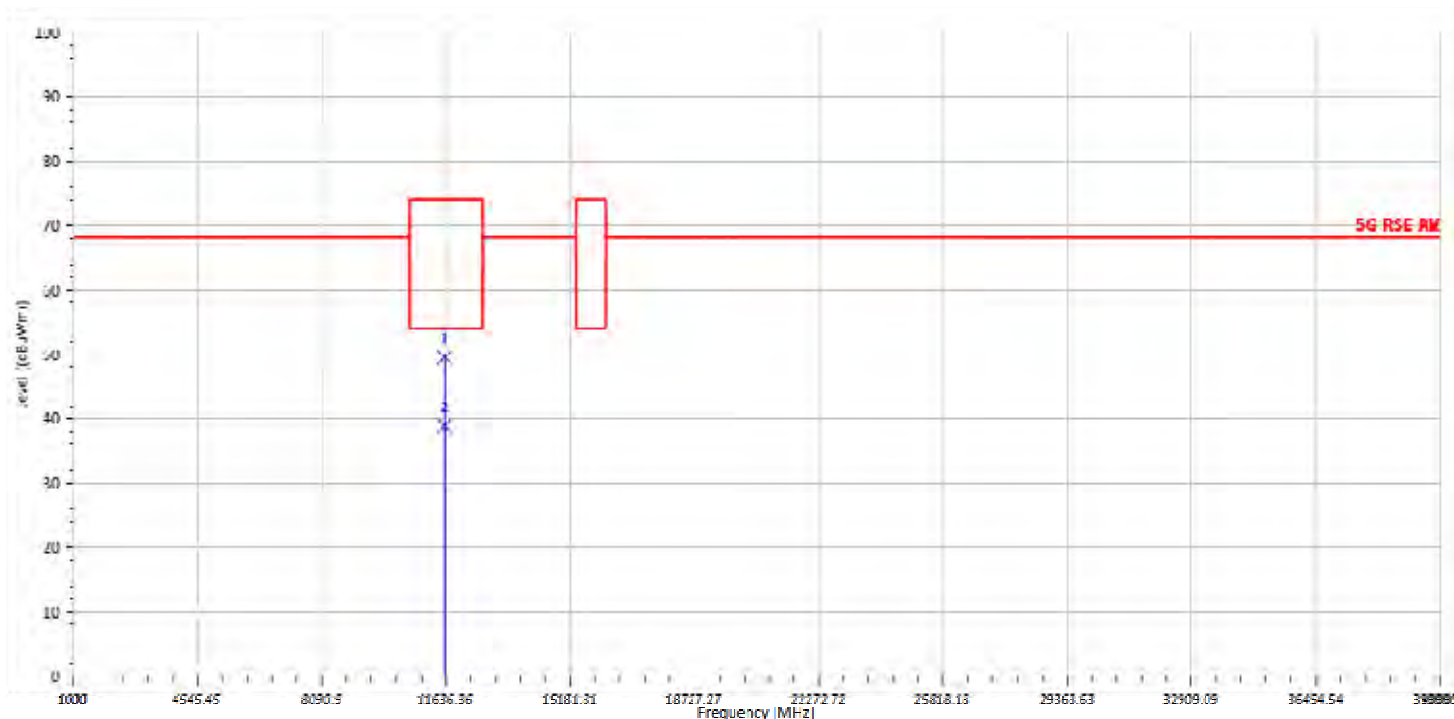
| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level | dB     | FS     | @3m    | dB     |
|          |         | PK/QP/AV | dBμV          |        | dBμV/m | dBμV/m |        |
| 11510.00 | H       | Peak     | 38.93         | 11.12  | 50.05  | 74     | -23.95 |
| 11510.00 | H       | Average  | 27.35         | 11.12  | 38.47  | 54     | -15.53 |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n40B4 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5795 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH HIGH  | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Vertical       |



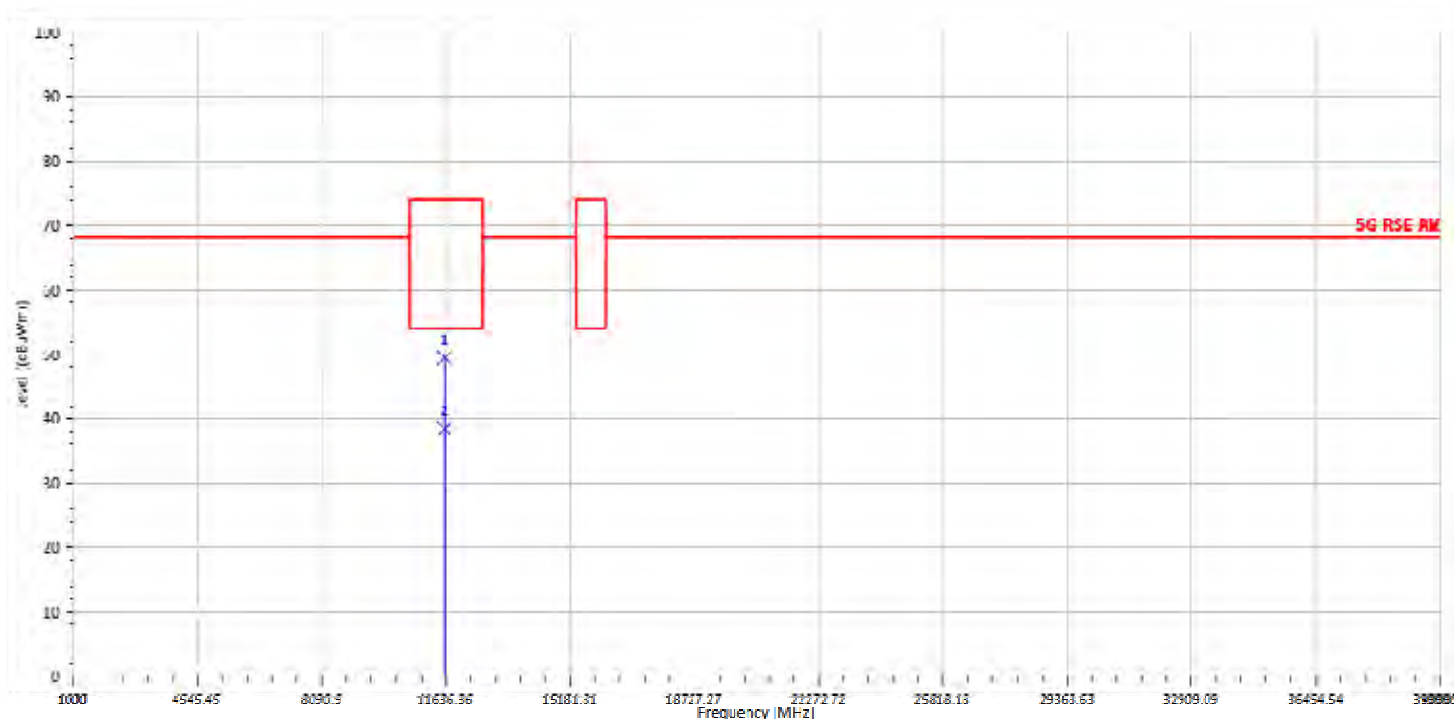
| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level | dB     | FS     | @3m    | dB     |
|          |         | PK/QP/AV | dBμV          |        | dBμV/m | dBμV/m |        |
| 11590.00 | H       | Peak     | 38.52         | 11.05  | 49.57  | 74     | -24.44 |
| 11590.00 | H       | Average  | 27.88         | 11.05  | 38.92  | 54     | -15.08 |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n40B4 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5795 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH HIGH  | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Horizontal     |



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level | dB     | FS     | @3m    | dB     |
|          |         | PK/QP/AV | dBμV          |        | dBμV/m | dBμV/m |        |
| 11590.00 | H       | Peak     | 38.44         | 11.05  | 49.48  | 74     | -24.52 |
| 11590.00 | H       | Average  | 27.45         | 11.05  | 38.49  | 54     | -15.51 |

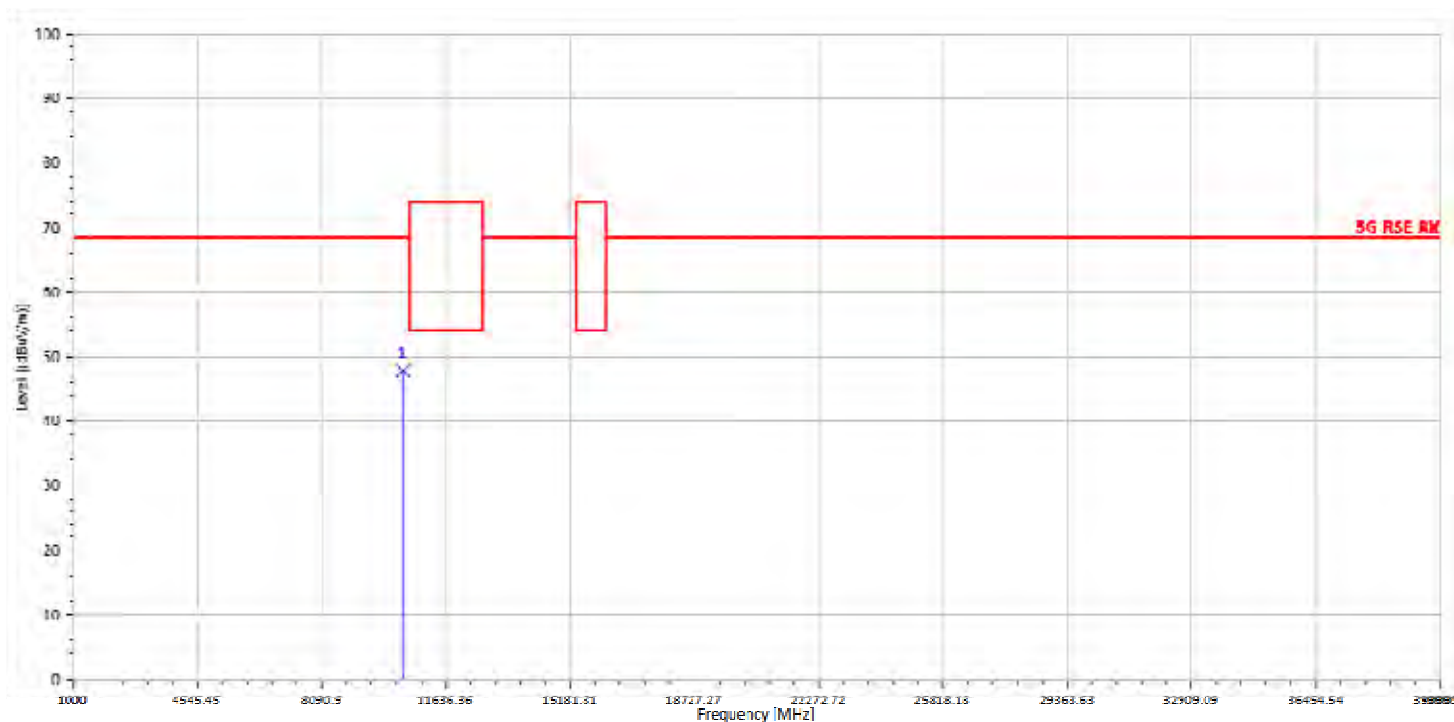
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## Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

|                         |              |                            |                |
|-------------------------|--------------|----------------------------|----------------|
| Operation Mode :        | 802.11ac80B1 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5210 MHz     | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH LOW    | Test Engineer :            | Enzo           |
| EUT Pol. :              | H            | Measurement Antenna Pol. : | Vertical       |



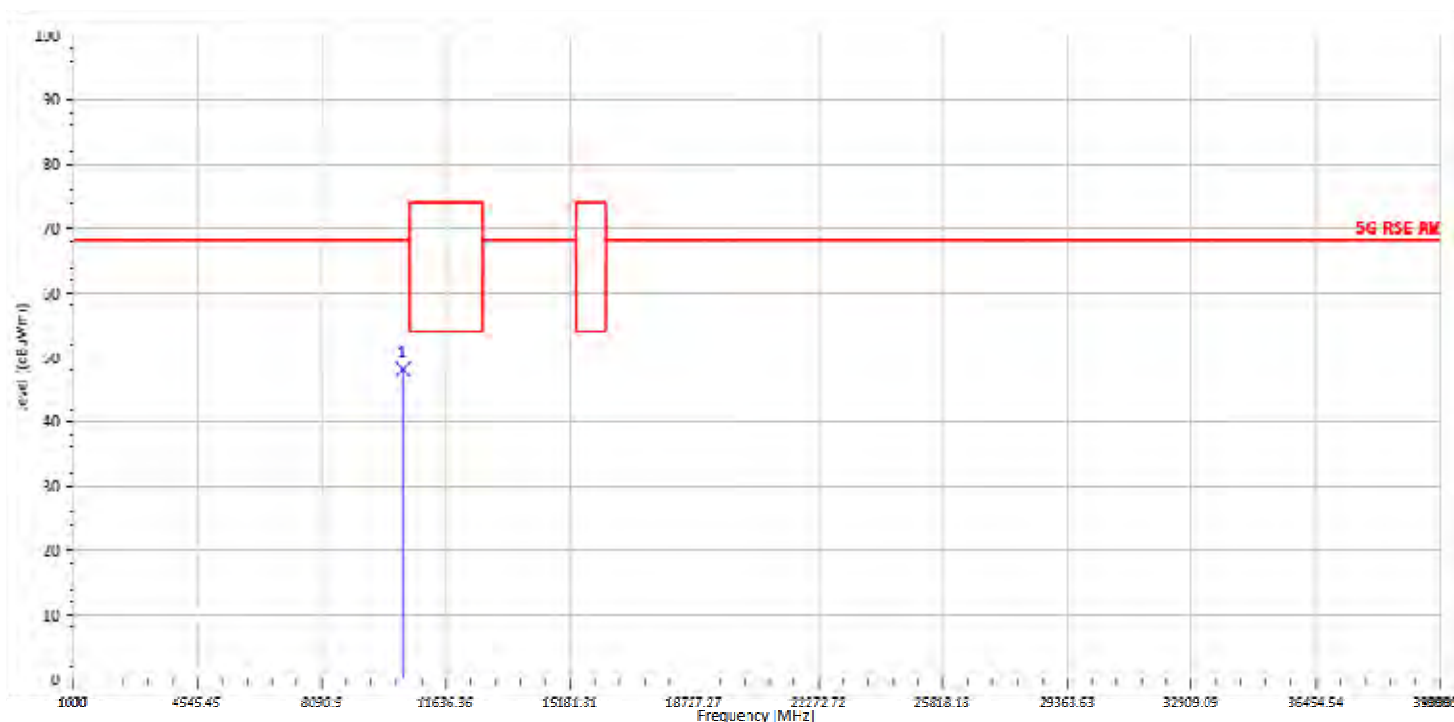
| Freq.    | Note    | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz      | F/H/E/S | PK/QP/AV      | dBμV                   | dB     | dBμV/m    | dBμV/m    | dB     |
| 10420.00 | H       | Peak          | 38.27                  | 9.53   | 47.80     | 68.3      | -20.50 |

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Operation Mode : 802.11ac80B1      Test Date : 2017/9/27  
 Fundamental Frequency : 5210 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH LOW      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



| Freq.    | Note    | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz      | F/H/E/S | PK/QP/AV      | dBμV                   | dB     | dBμV/m    | dBμV/m    | dB     |
| 10420.00 | H       | Peak          | 38.63                  | 9.53   | 48.17     | 68.3      | -20.13 |

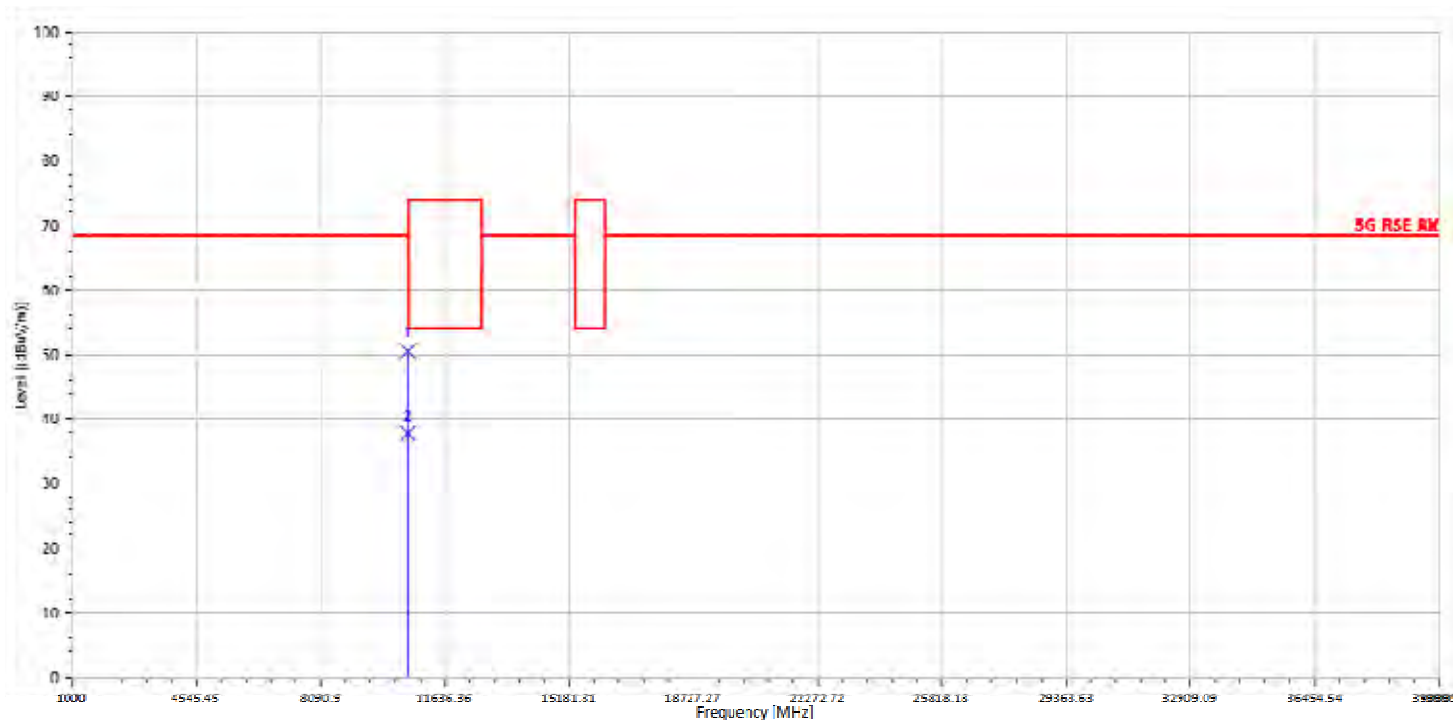
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## Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

|                         |              |                            |                |
|-------------------------|--------------|----------------------------|----------------|
| Operation Mode :        | 802.11ac80B2 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5290 MHz     | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH HIGH   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H            | Measurement Antenna Pol. : | Vertical       |



| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 10580.00     | H               | Peak                         | 40.45                             | 10.05        | 50.50                  | 68.3                   | -17.80       |
| 10580.00     | H               | Average                      | 27.73                             | 10.05        | 37.78                  | 68.3                   | -30.52       |

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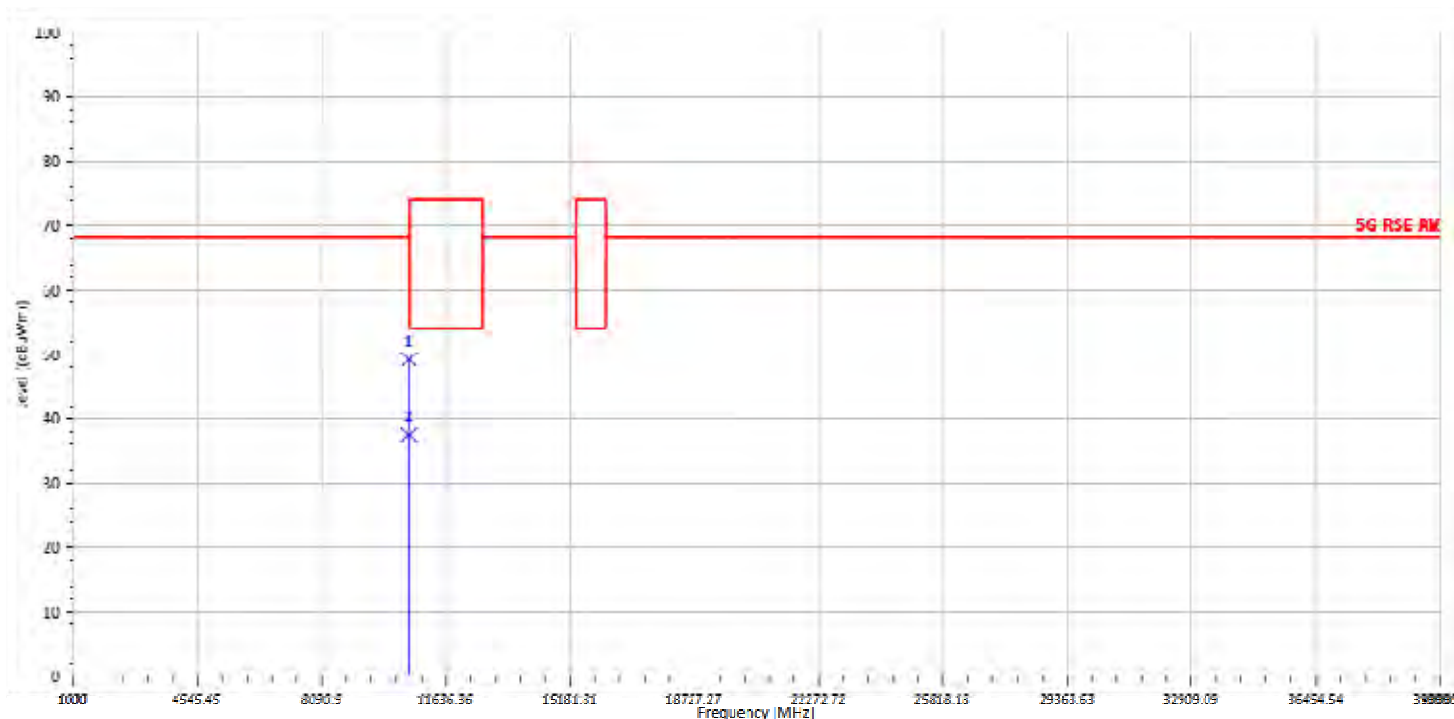
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Operation Mode : 802.11ac80B2      Test Date : 2017/9/27  
 Fundamental Frequency : 5290 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH HIGH      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 10580.00     | H               | Peak                         | 39.23                             | 10.05        | 49.29                  | 68.3                   | -19.01       |
| 10580.00     | H               | Average                      | 27.45                             | 10.05        | 37.50                  | 68.3                   | -30.80       |

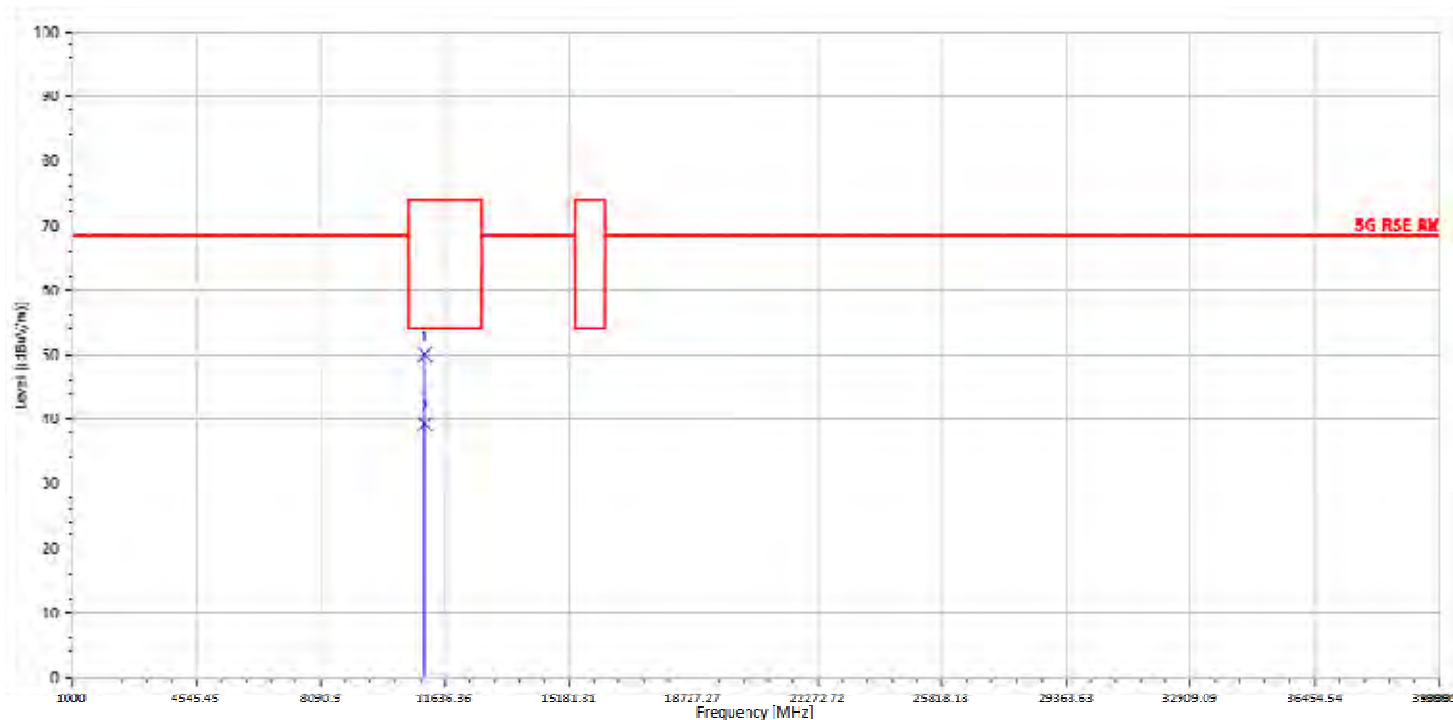
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## Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

|                         |              |                            |                |
|-------------------------|--------------|----------------------------|----------------|
| Operation Mode :        | 802.11ac80B3 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5530 MHz     | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH LOW    | Test Engineer :            | Enzo           |
| EUT Pol. :              | H            | Measurement Antenna Pol. : | Vertical       |



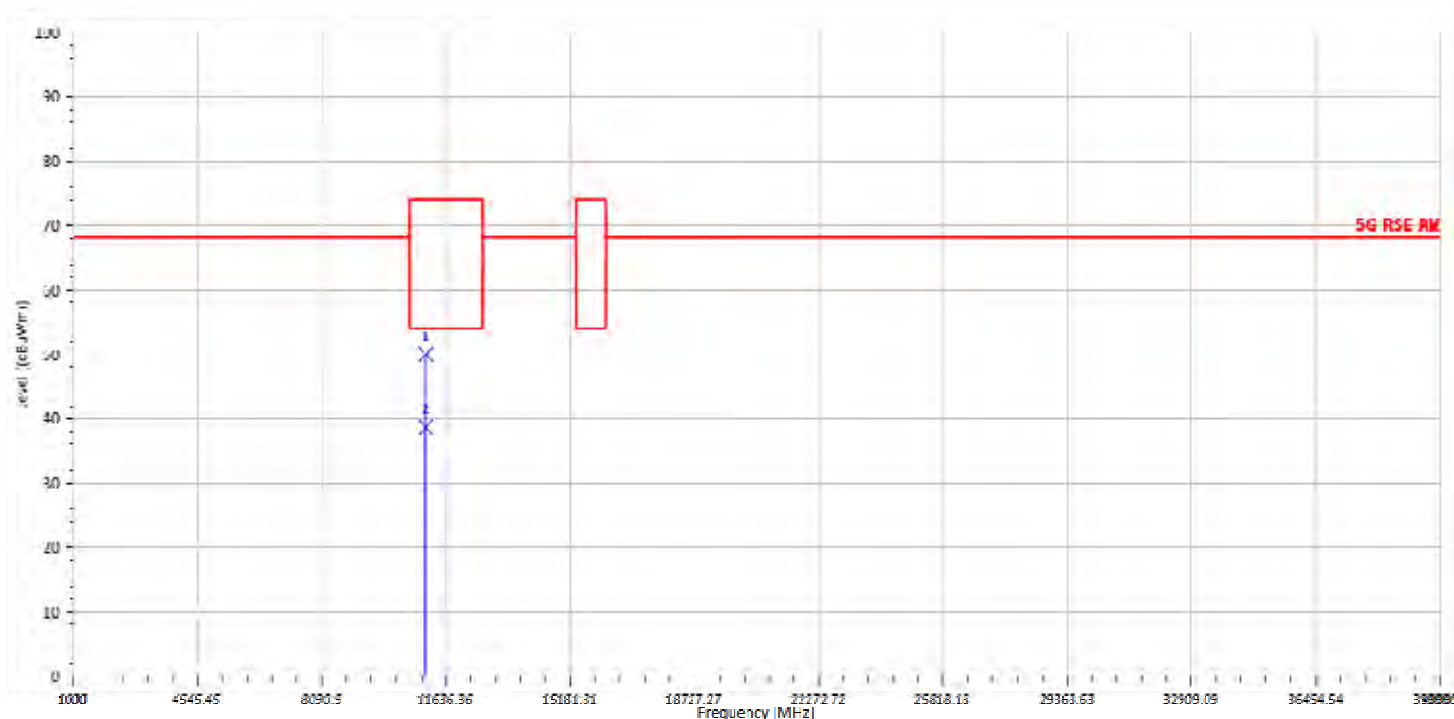
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 11060.00     | H               | Peak                         | 38.60                             | 11.37        | 49.97                  | 74                     | -24.03       |
| 11060.00     | H               | Average                      | 27.85                             | 11.37        | 39.22                  | 54                     | -14.78       |

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|                         |              |                            |                |
|-------------------------|--------------|----------------------------|----------------|
| Operation Mode :        | 802.11ac80B3 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5530 MHz     | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH LOW    | Test Engineer :            | Enzo           |
| EUT Pol. :              | H            | Measurement Antenna Pol. : | Horizontal     |



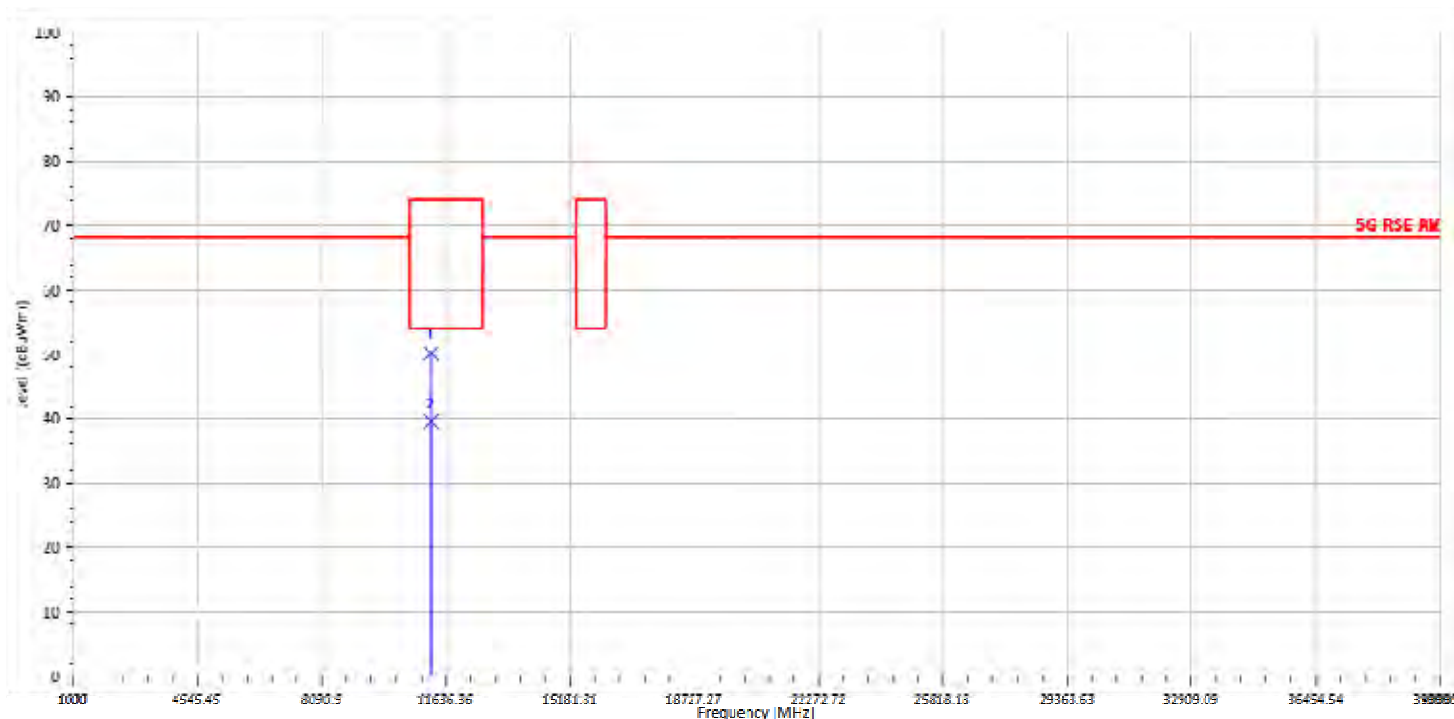
| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level |        | FS     | @3m    |        |
|          |         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 11060.00 | H       | Peak     | 38.63         | 11.37  | 50.00  | 74     | -24.00 |
| 11060.00 | H       | Average  | 27.35         | 11.37  | 38.72  | 54     | -15.28 |

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Operation Mode : 802.11ac80B3      Test Date : 2017/9/27  
 Fundamental Frequency : 5610 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH MID      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Vertical



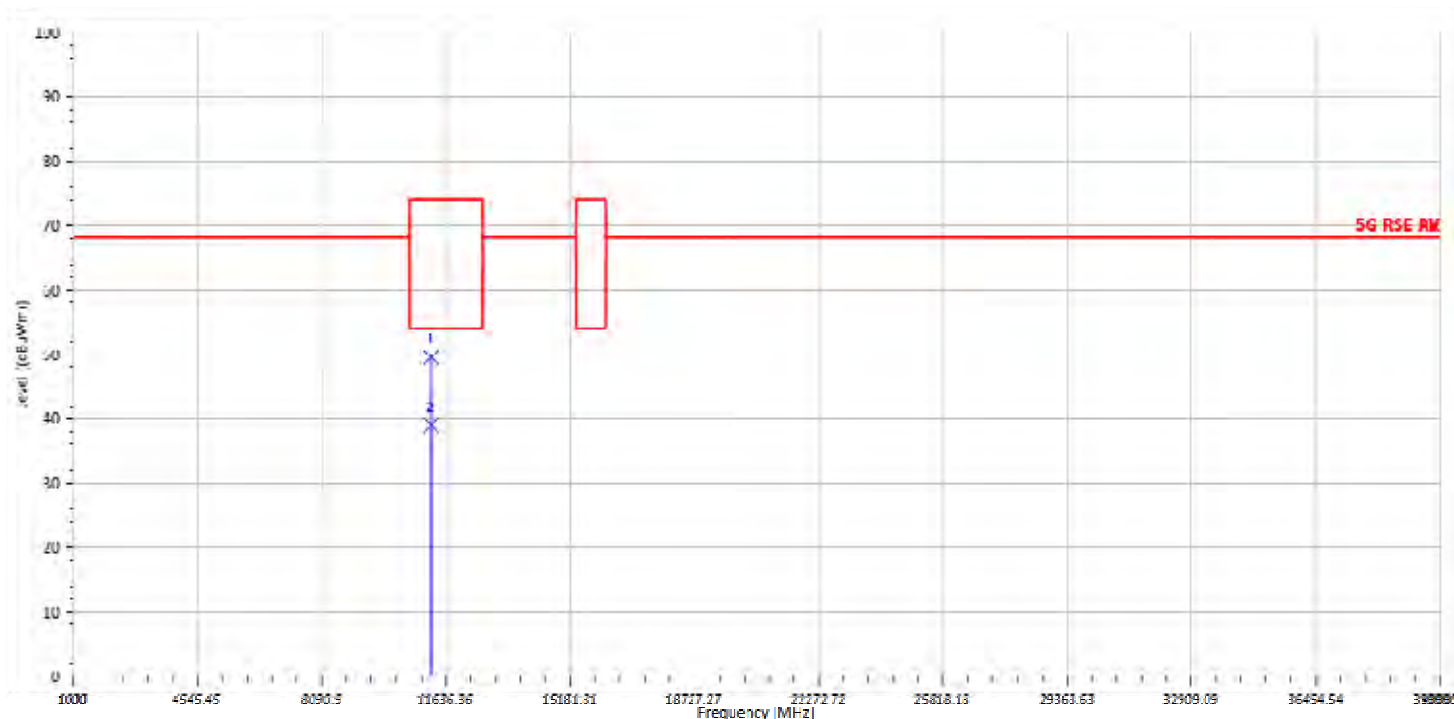
| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level |        | FS     | @3m    |        |
|          |         | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 11220.00 | H       | Peak     | 38.52         | 11.64  | 50.17  | 74     | -23.83 |
| 11220.00 | H       | Average  | 27.95         | 11.64  | 39.60  | 54     | -14.41 |

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Operation Mode : 802.11ac80B3      Test Date : 2017/9/27  
 Fundamental Frequency : 5610 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : TX CH MID      Test Engineer : Enzo  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



| Freq.    | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| MHz      | F/H/E/S | Mode     | Reading Level | dB     | FS     | @3m    | dB     |
|          |         | PK/QP/AV | dBuV          |        | dBuV/m | dBuV/m |        |
| 11220.00 | H       | Peak     | 37.91         | 11.64  | 49.55  | 74     | -24.45 |
| 11220.00 | H       | Average  | 27.39         | 11.64  | 39.03  | 54     | -14.97 |

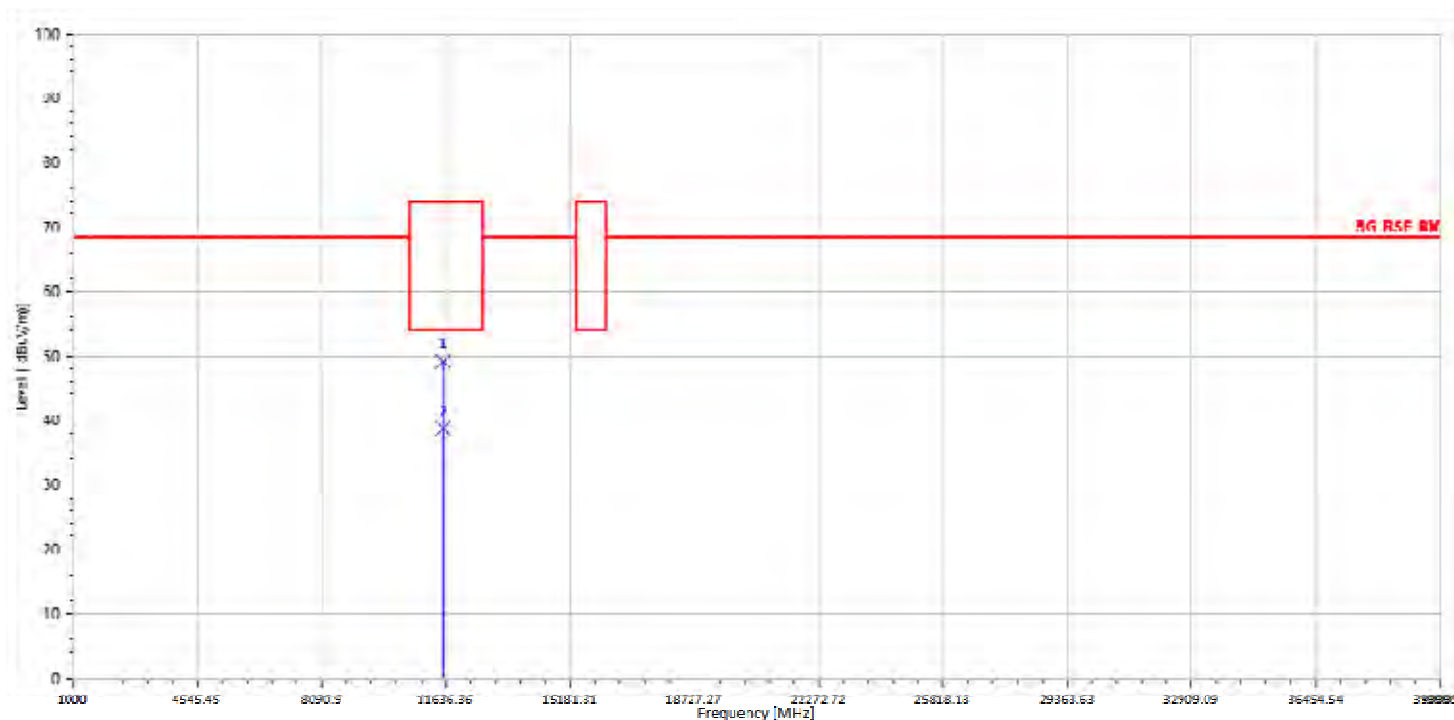
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## Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

|                         |              |                            |                |
|-------------------------|--------------|----------------------------|----------------|
| Operation Mode :        | 802.11ac80B4 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5775 MHz     | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH LOW    | Test Engineer :            | Enzo           |
| EUT Pol. :              | H            | Measurement Antenna Pol. : | Vertical       |



| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 11550.00     | H               | Peak                         | 38.05                             | 11.08        | 49.13                  | 74                     | -24.87       |
| 11550.00     | H               | Average                      | 27.62                             | 11.08        | 38.70                  | 54                     | -15.30       |

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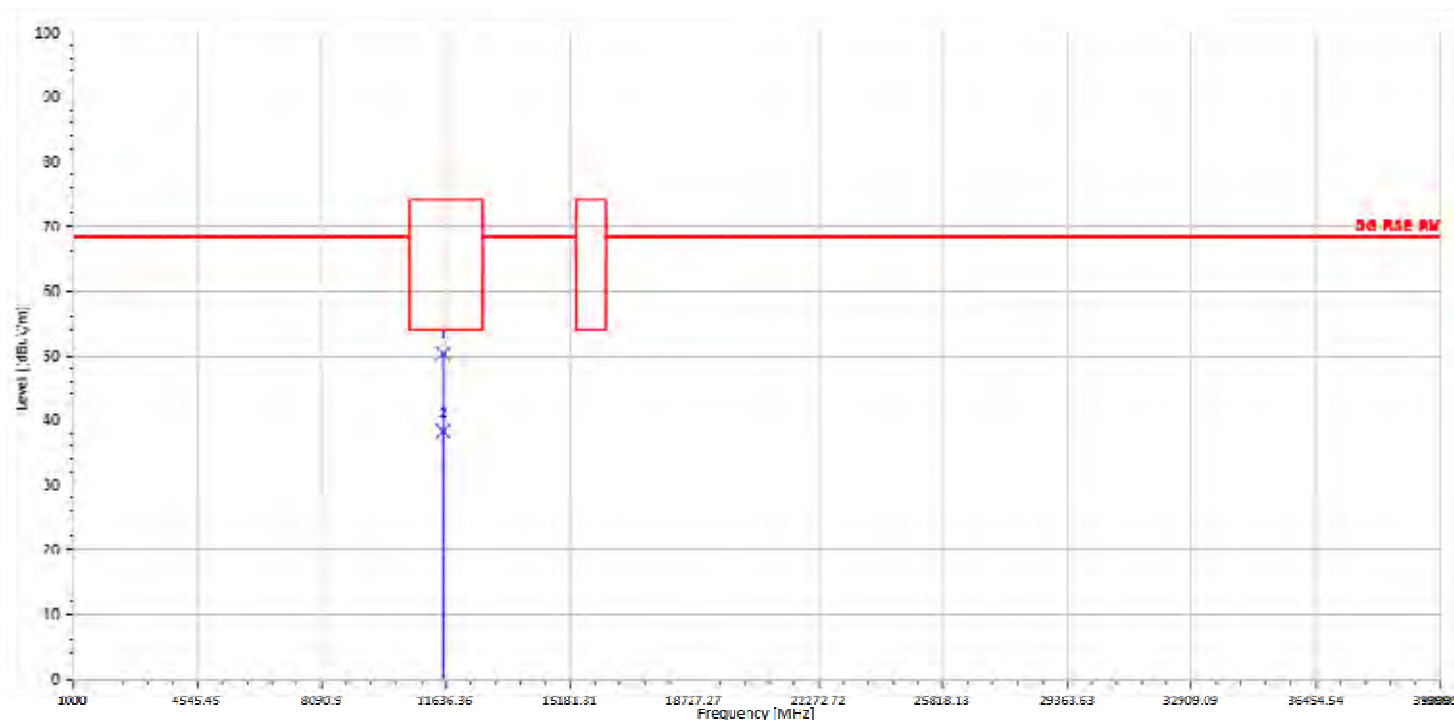
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|                         |              |                            |                |
|-------------------------|--------------|----------------------------|----------------|
| Operation Mode :        | 802.11ac80B4 | Test Date :                | 2017/9/27      |
| Fundamental Frequency : | 5775 MHz     | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | TX CH LOW    | Test Engineer :            | Enzo           |
| EUT Pol. :              | H            | Measurement Antenna Pol. : | Horizontal     |



| Freq.    | Note    | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz      | F/H/E/S | PK/QP/AV      | dBμV                   | dB     | dBμV/m    | dBμV/m    | dB     |
| 11550.00 | H       | Peak          | 39.23                  | 11.08  | 50.32     | 74        | -23.68 |
| 11550.00 | H       | Average       | 27.22                  | 11.08  | 38.30     | 54        | -15.70 |

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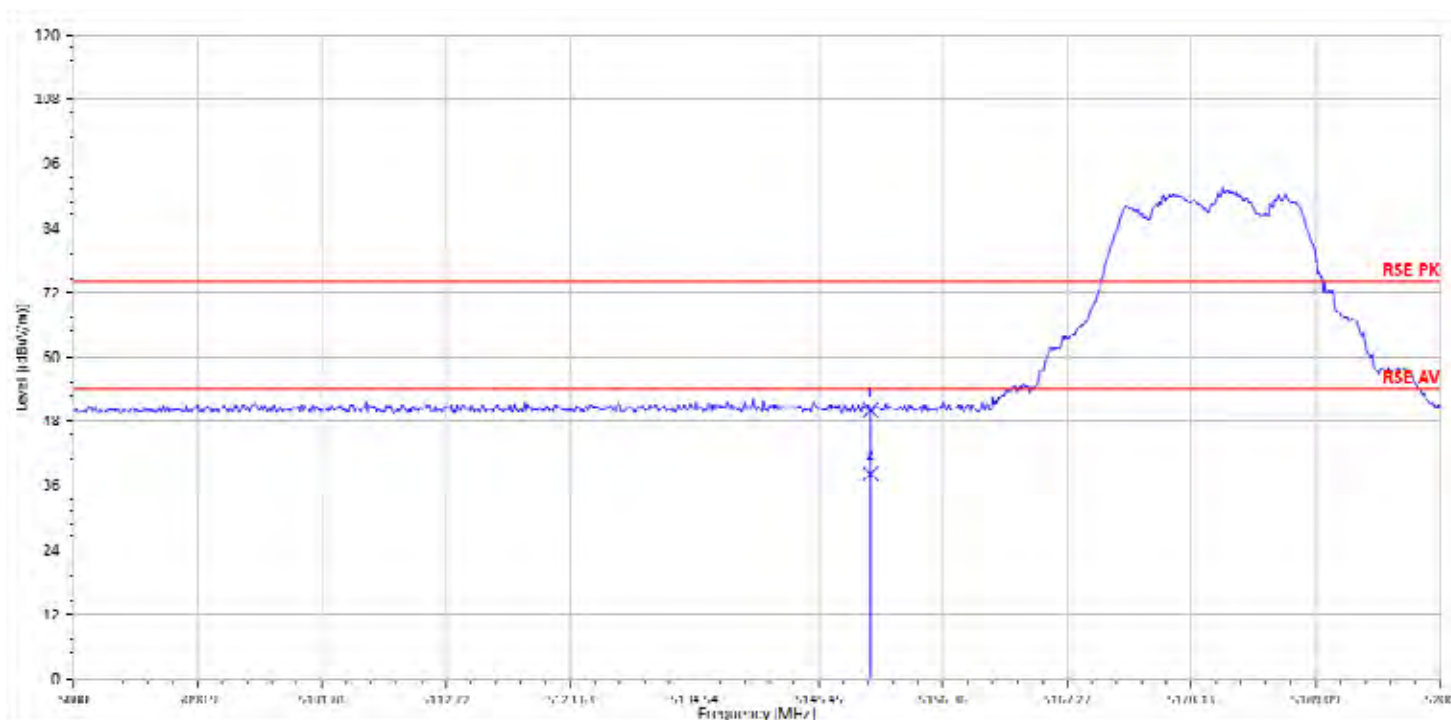
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## Band edge falling to restricted band

### 802.11a mode

|                         |           |                            |                |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode :        | 802.11aB1 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5180 MHz  | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH LOW | Test Engineer :            | Enzo           |
| EUT Pol. :              | H         | Measurement Antenna Pol. : | Vertical       |



| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5150.00      | E               | Peak                         | 50.21                             | -0.17        | 50.04                  | 74                     | -23.96       |
| 5150.00      | E               | Average                      | 38.33                             | -0.17        | 38.16                  | 54                     | -15.84       |

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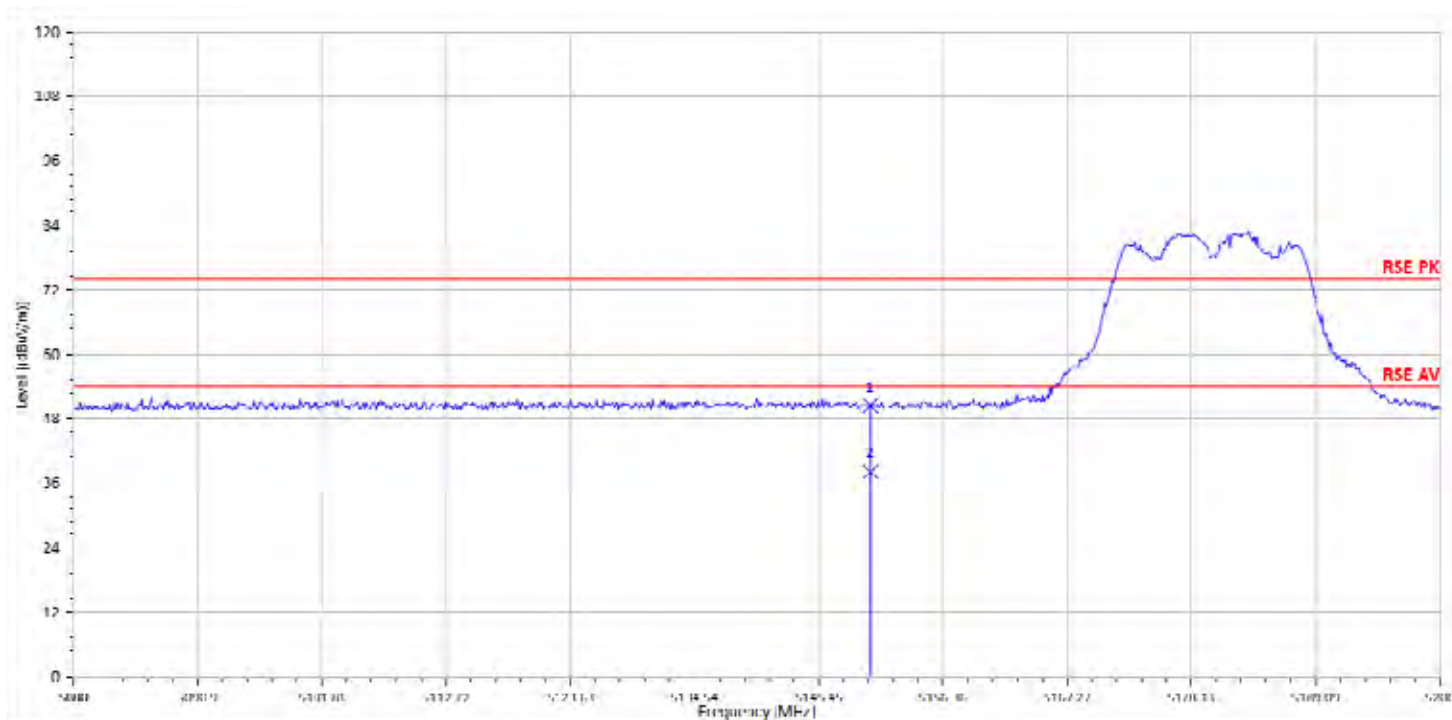
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|                         |           |                            |                |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode :        | 802.11aB1 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5180 MHz  | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH LOW | Test Engineer :            | Enzo           |
| EUT Pol. :              | H         | Measurement Antenna Pol. : | Horizontal     |



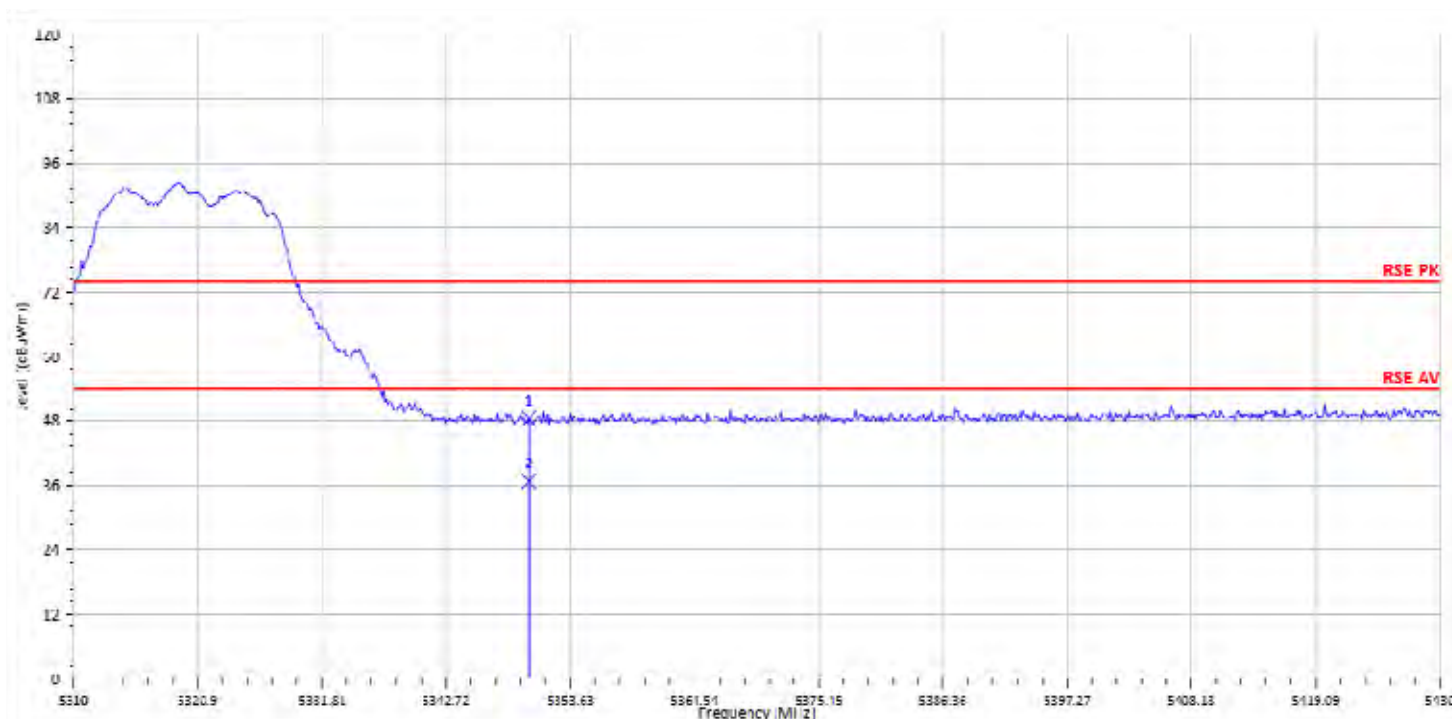
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5150.00      | E               | Peak                         | 50.58                             | -0.17        | 50.41                  | 74                     | -23.59       |
| 5150.00      | E               | Average                      | 38.26                             | -0.17        | 38.09                  | 54                     | -15.91       |

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|                         |            |                            |                |
|-------------------------|------------|----------------------------|----------------|
| Operation Mode :        | 802.11aB2  | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5320 MHz   | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH HIGH | Test Engineer :            | Enzo           |
| EUT Pol. :              | H          | Measurement Antenna Pol. : | Vertical       |



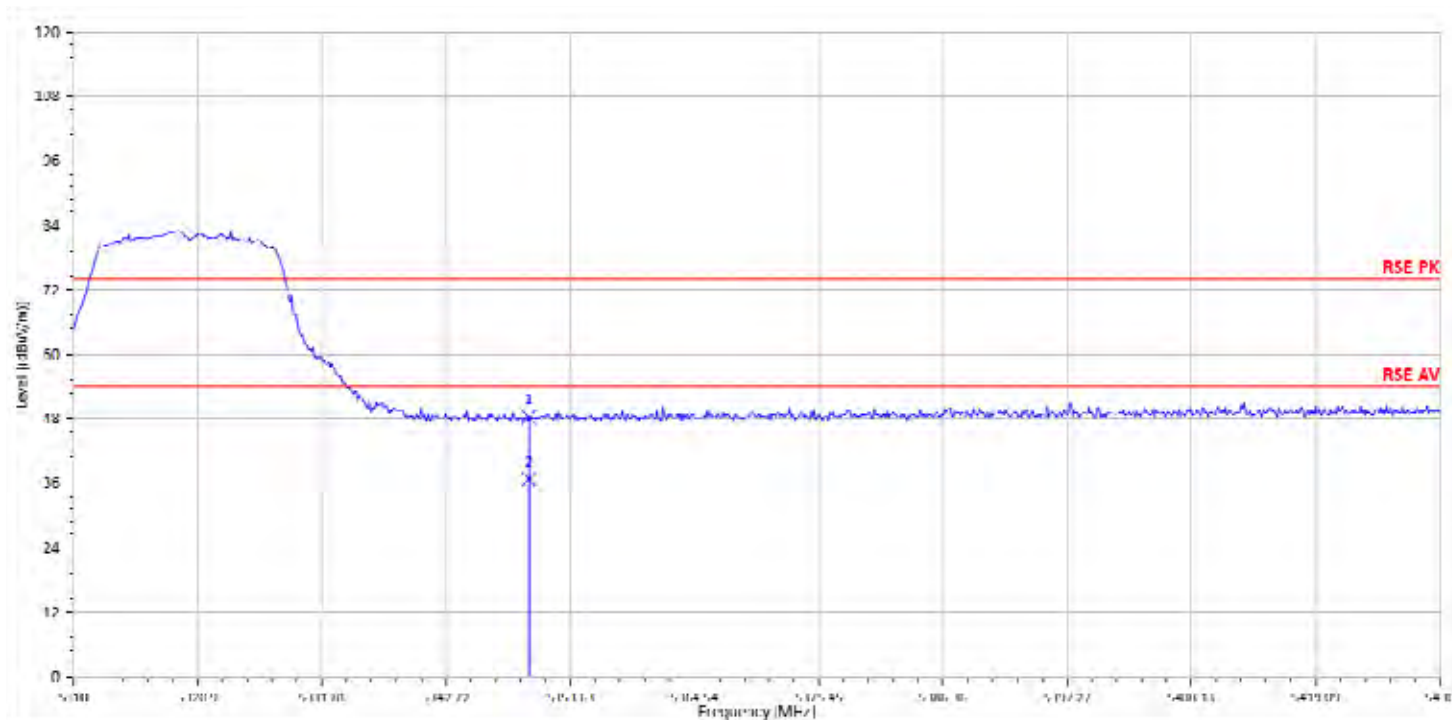
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5350.00      | E               | Peak                         | 48.54                             | -0.15        | 48.39                  | 74                     | -25.61       |
| 5350.00      | E               | Average                      | 36.92                             | -0.15        | 36.76                  | 54                     | -17.24       |

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|                         |            |                            |                |
|-------------------------|------------|----------------------------|----------------|
| Operation Mode :        | 802.11aB2  | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5320 MHz   | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH HIGH | Test Engineer :            | Enzo           |
| EUT Pol. :              | H          | Measurement Antenna Pol. : | Horizontal     |



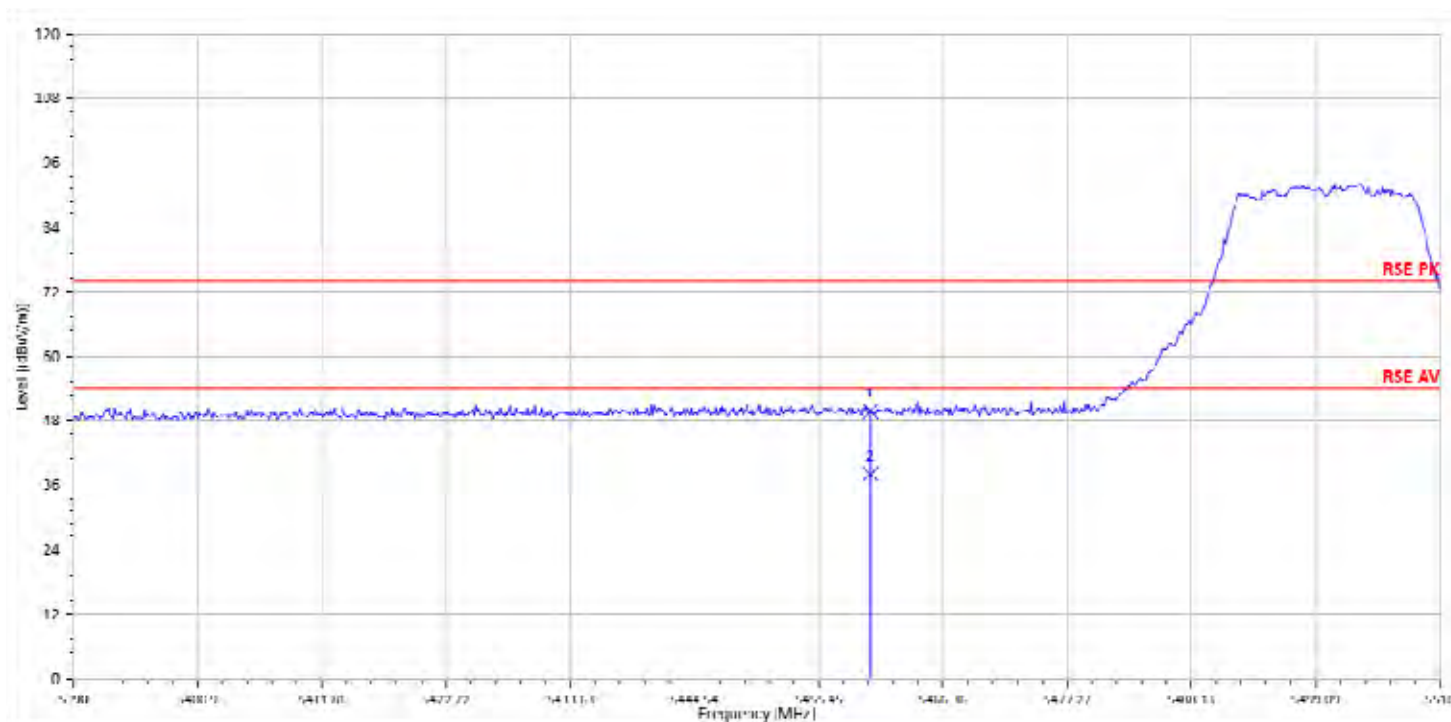
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5350.00      | E               | Peak                         | 48.44                             | -0.15        | 48.29                  | 74                     | -25.71       |
| 5350.00      | E               | Average                      | 36.85                             | -0.15        | 36.69                  | 54                     | -17.31       |

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|                         |           |                            |                |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode :        | 802.11aB3 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5500 MHz  | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH LOW | Test Engineer :            | Enzo           |
| EUT Pol. :              | H         | Measurement Antenna Pol. : | Vertical       |



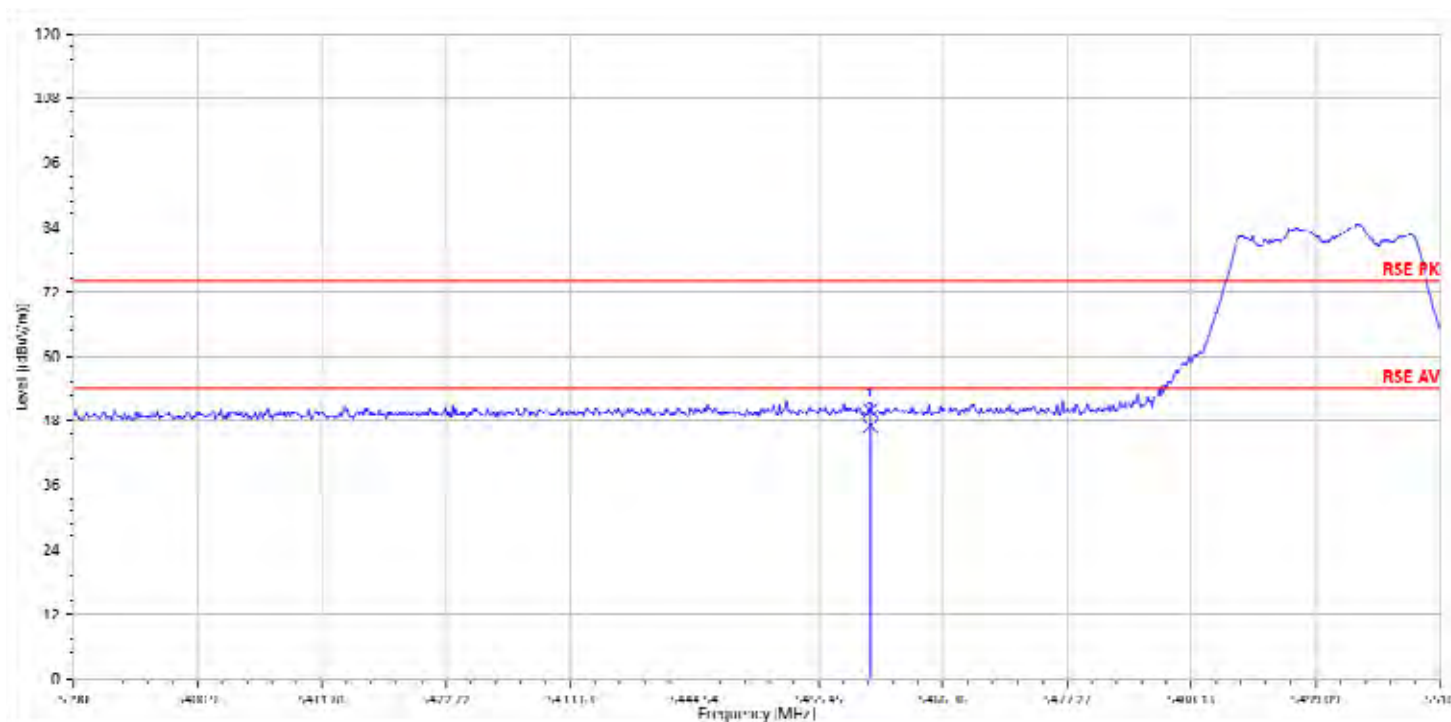
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5460.00      | E               | Peak                         | 49.70                             | 0.06         | 49.75                  | 74                     | -24.25       |
| 5460.00      | E               | Average                      | 38.00                             | 0.06         | 38.06                  | 54                     | -15.94       |

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|                         |           |                            |                |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode :        | 802.11aB3 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5500 MHz  | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH LOW | Test Engineer :            | Enzo           |
| EUT Pol. :              | H         | Measurement Antenna Pol. : | Horizontal     |



| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5460.00      | E               | Peak                         | 49.82                             | 0.06         | 49.88                  | 74                     | -24.12       |
| 5460.00      | E               | Average                      | 46.95                             | 0.06         | 47.01                  | 54                     | -6.99        |

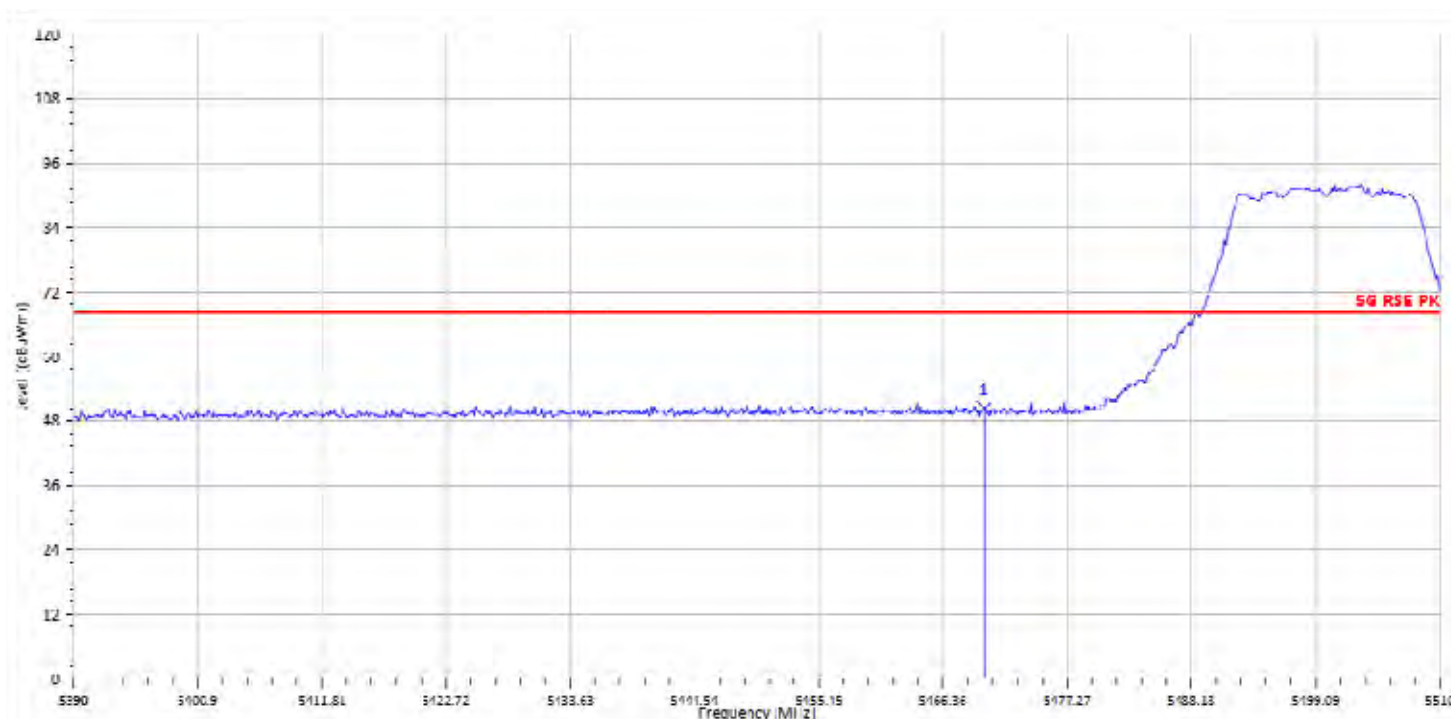
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Operation Mode : 802.11aB3  
 Fundamental Frequency : 5500 MHz  
 Operation Band : BE CH LOW RSE  
 EUT Pol. : H

Test Date : 2017/9/25  
 Temp. / Humi. : 22.7deg\_C/57RH  
 Test Engineer : Enzo  
 Measurement Antenna Pol. : Vertical



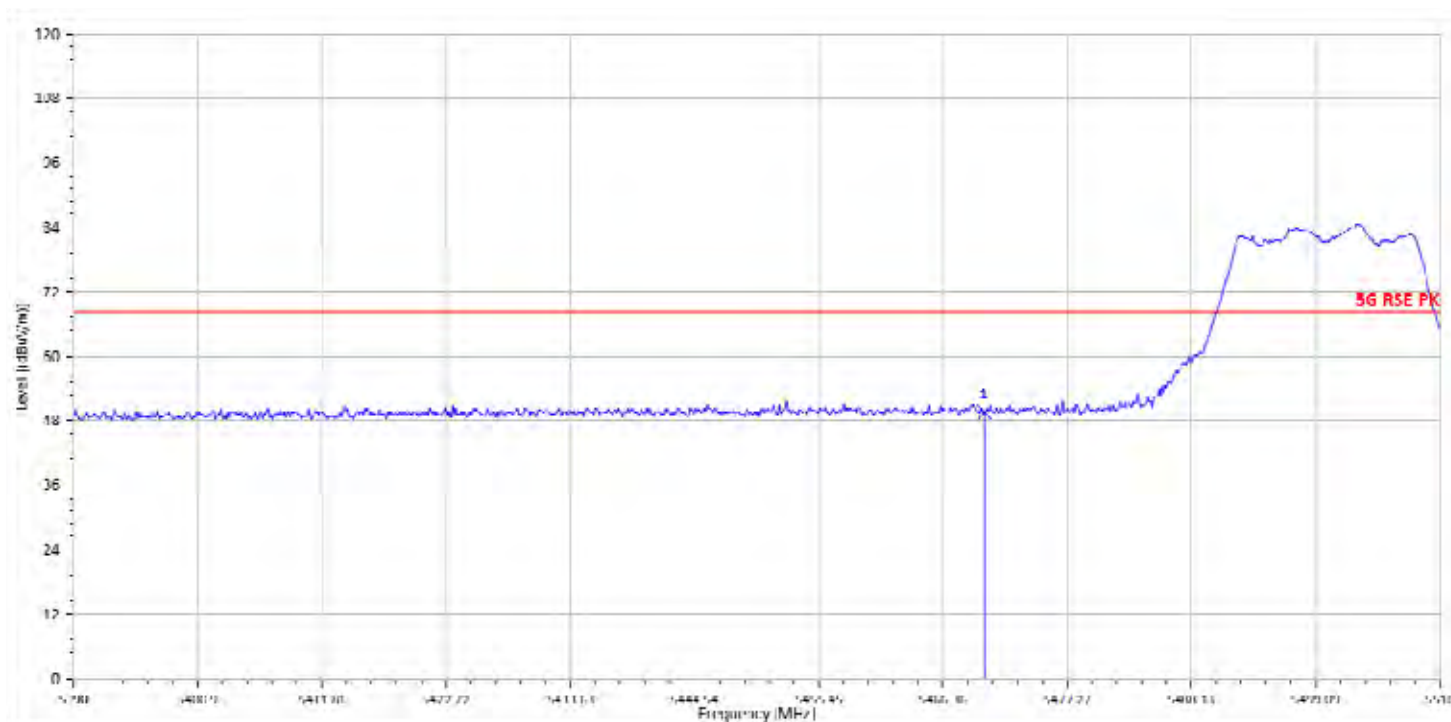
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5470.00      | E               | Peak                         | 50.31                             | 0.08         | 50.39                  | 68.3                   | -17.91       |

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|                         |               |                            |                |
|-------------------------|---------------|----------------------------|----------------|
| Operation Mode :        | 802.11aB3     | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5500 MHz      | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH LOW RSE | Test Engineer :            | Enzo           |
| EUT Pol. :              | H             | Measurement Antenna Pol. : | Horizontal     |



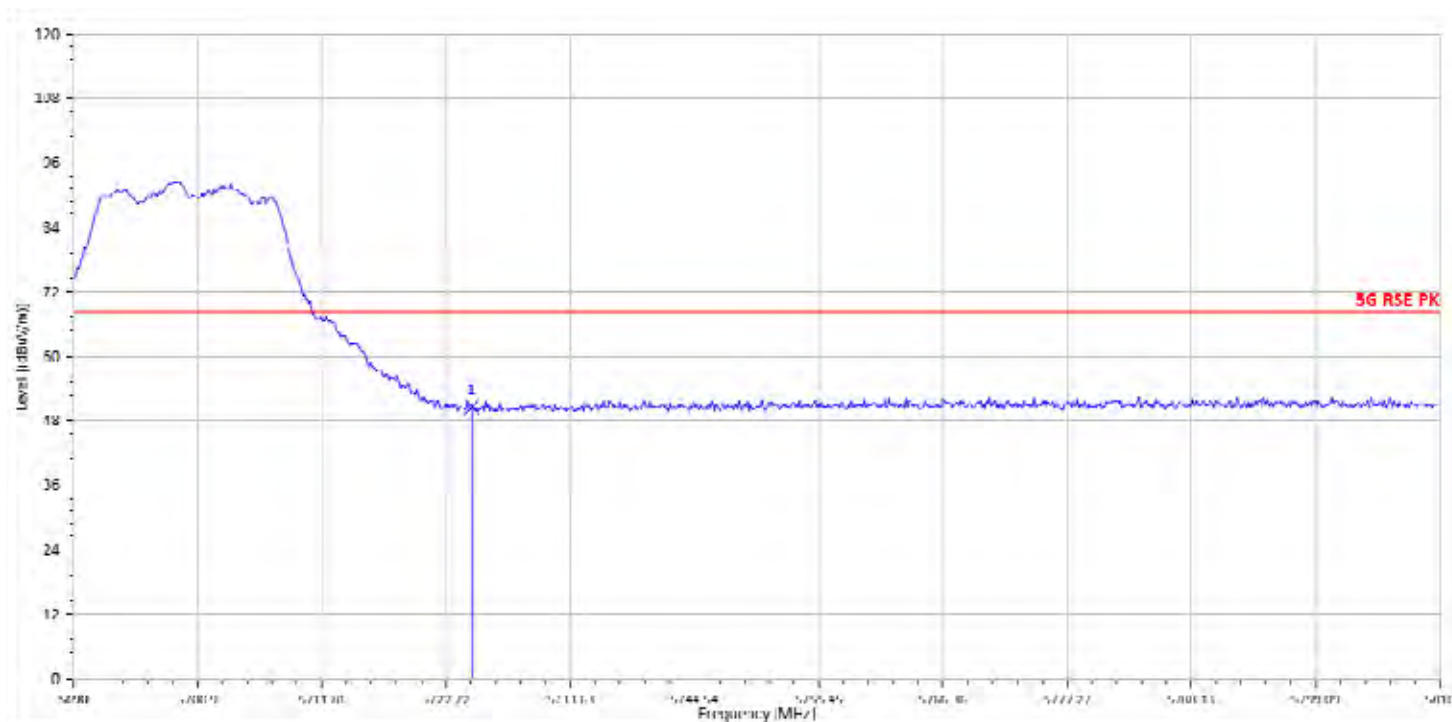
| Freq.   | Note    | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz     | F/H/E/S | PK/QP/AV      | dBμV                   | dB     | dBμV/m    | dBμV/m    | dB     |
| 5470.00 | E       | Peak          | 49.47                  | 0.08   | 49.55     | 68.3      | -18.75 |

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|                         |            |                            |                |
|-------------------------|------------|----------------------------|----------------|
| Operation Mode :        | 802.11aB3  | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5700 MHz   | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH HIGH | Test Engineer :            | Enzo           |
| EUT Pol. :              | H          | Measurement Antenna Pol. : | Vertical       |



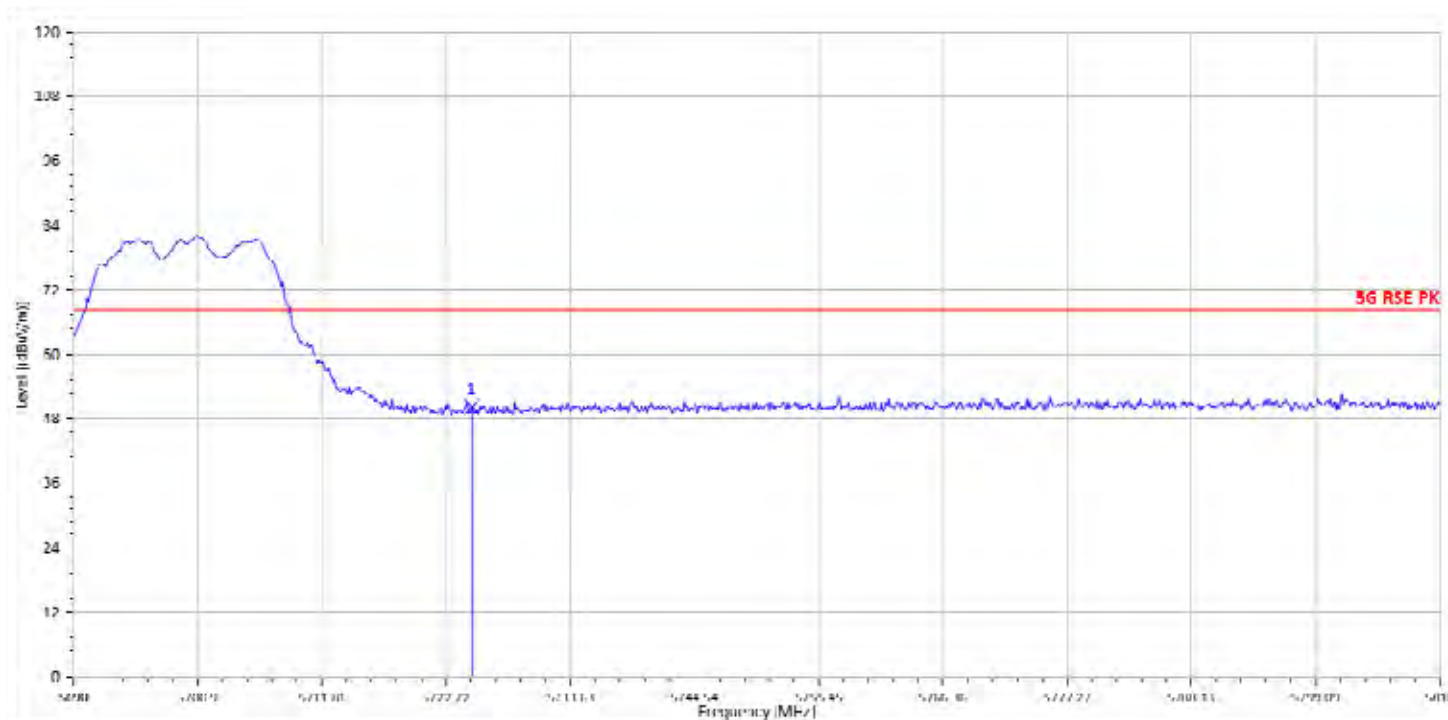
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5725.00      | E               | Peak                         | 49.87                             | 0.69         | 50.55                  | 68.3                   | -17.75       |

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|                         |            |                            |                |
|-------------------------|------------|----------------------------|----------------|
| Operation Mode :        | 802.11aB3  | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5700 MHz   | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH HIGH | Test Engineer :            | Enzo           |
| EUT Pol. :              | H          | Measurement Antenna Pol. : | Horizontal     |



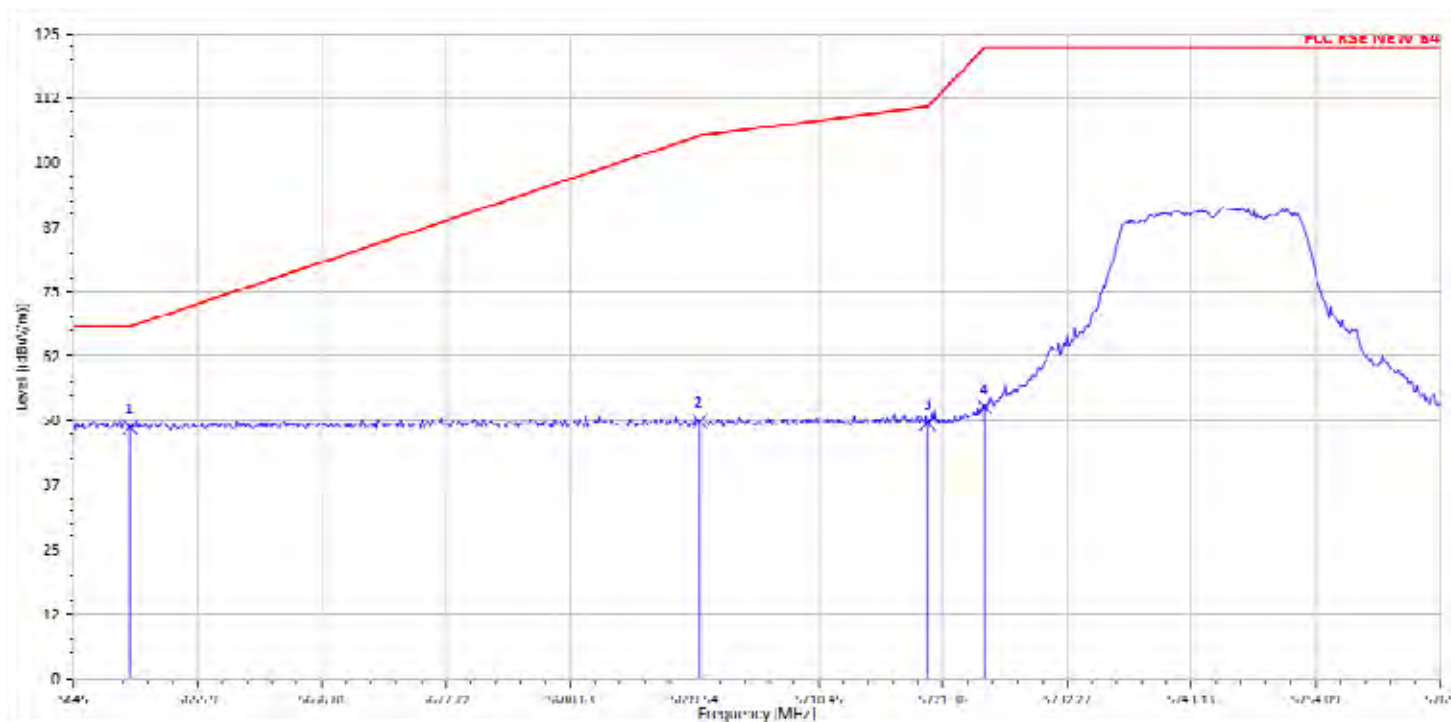
| Freq.   | Note    | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz     | F/H/E/S | PK/QP/AV      | dBμV                   | dB     | dBμV/m    | dBμV/m    | dB     |
| 5725.00 | E       | Peak          | 49.45                  | 0.69   | 50.13     | 68.3      | -18.17 |

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|                         |           |                            |                |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode :        | 802.11aB4 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5745 MHz  | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH LOW | Test Engineer :            | Enzo           |
| EUT Pol. :              | H         | Measurement Antenna Pol. : | Vertical       |



| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5650.00      | S               | Peak                         | 48.07                             | 0.63         | 48.70                  | 68.23                  | -19.53       |
| 5700.00      | S               | Peak                         | 49.29                             | 0.56         | 49.85                  | 105.23                 | -55.38       |
| 5720.00      | S               | Peak                         | 48.83                             | 0.66         | 49.49                  | 110.83                 | -61.34       |
| 5725.00      | E               | Peak                         | 51.94                             | 0.69         | 52.63                  | 122.23                 | -69.60       |

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台灣檢驗科技股份有限公司

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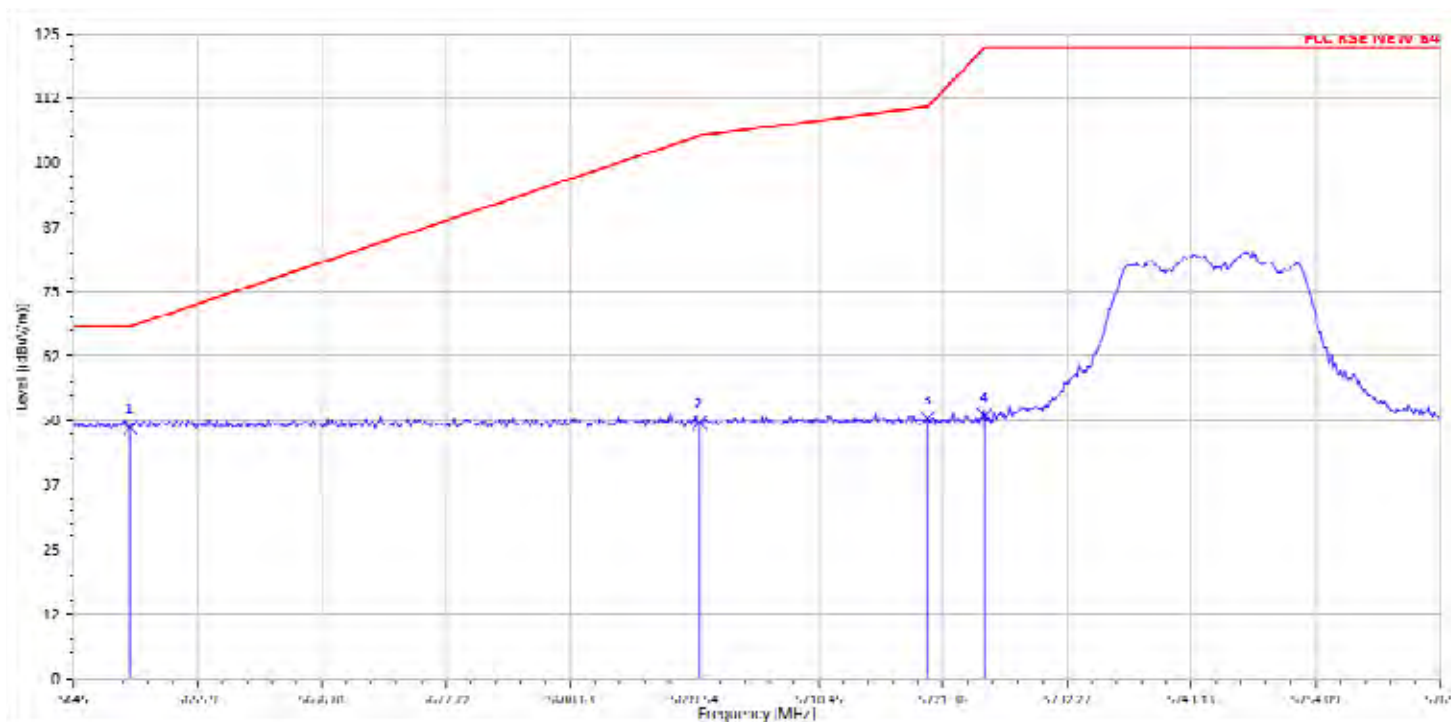
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|                         |           |                            |                |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode :        | 802.11aB4 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5745 MHz  | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH LOW | Test Engineer :            | Enzo           |
| EUT Pol. :              | H         | Measurement Antenna Pol. : | Horizontal     |



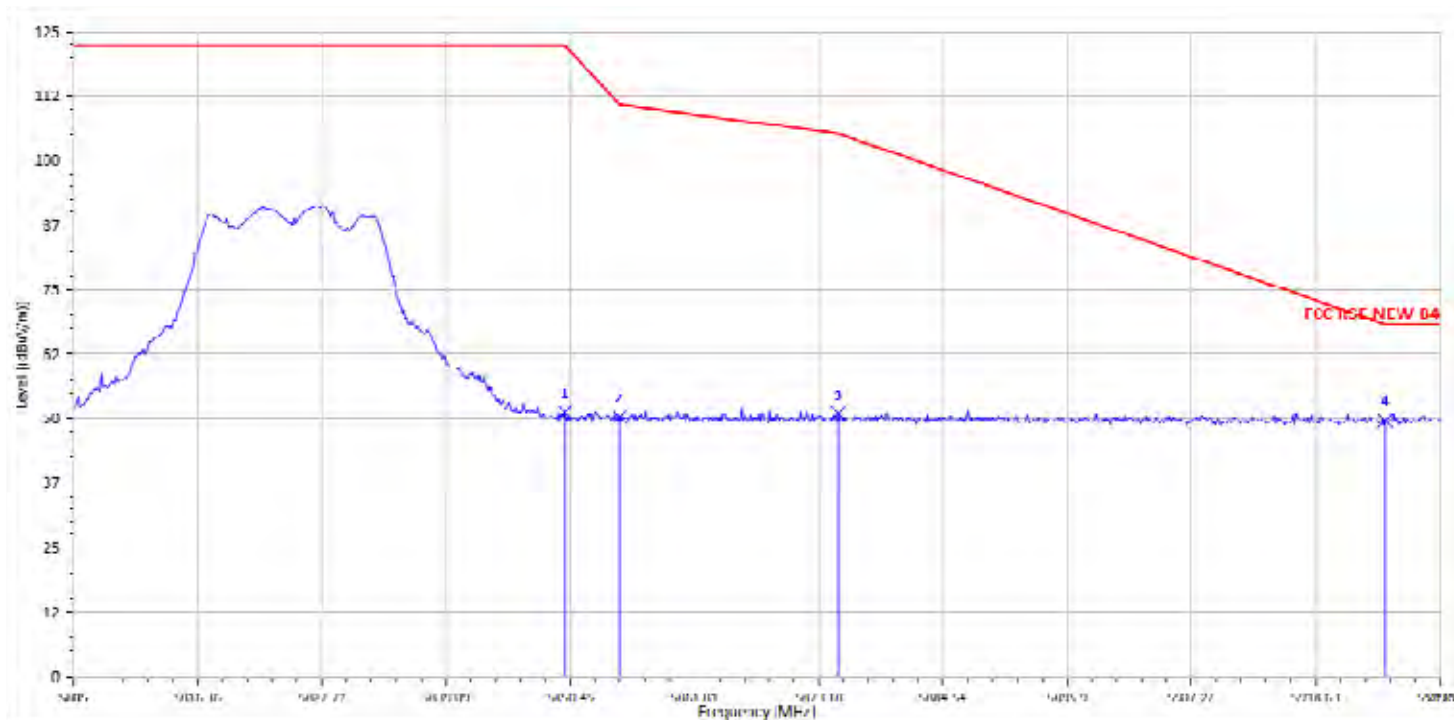
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5650.00      | S               | Peak                         | 48.03                             | 0.63         | 48.65                  | 68.23                  | -19.58       |
| 5700.00      | S               | Peak                         | 49.08                             | 0.56         | 49.64                  | 105.23                 | -55.59       |
| 5720.00      | S               | Peak                         | 49.78                             | 0.66         | 50.44                  | 110.83                 | -60.39       |
| 5725.00      | E               | Peak                         | 50.26                             | 0.69         | 50.95                  | 122.23                 | -71.28       |

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|                         |            |                            |                |
|-------------------------|------------|----------------------------|----------------|
| Operation Mode :        | 802.11aB4  | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5825 MHz   | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH HIGH | Test Engineer :            | Enzo           |
| EUT Pol. :              | H          | Measurement Antenna Pol. : | Vertical       |



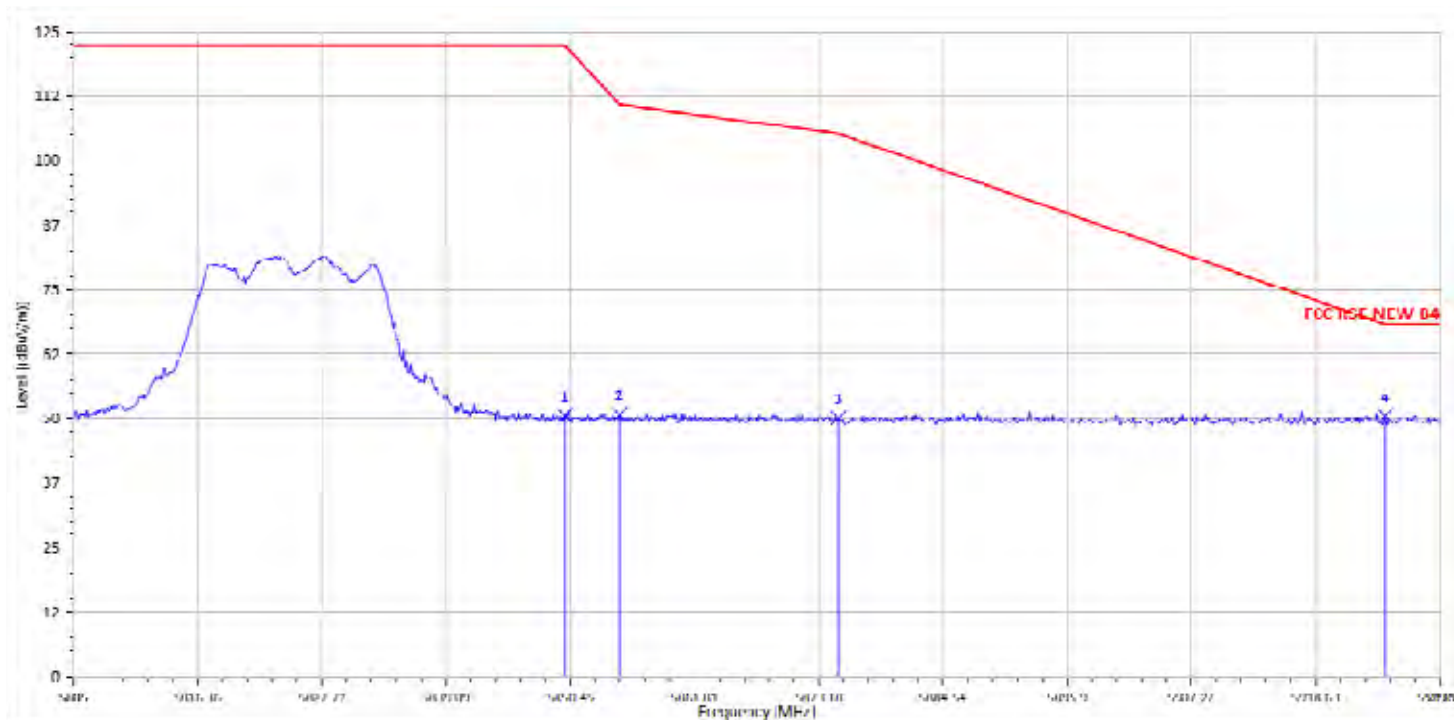
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5850.00      | E               | Peak                         | 50.25                             | 1.01         | 51.26                  | 122.23                 | -70.97       |
| 5855.00      | S               | Peak                         | 49.36                             | 1.01         | 50.36                  | 110.83                 | -60.47       |
| 5875.00      | S               | Peak                         | 50.03                             | 0.99         | 51.02                  | 105.23                 | -54.21       |
| 5925.00      | S               | Peak                         | 48.58                             | 1.04         | 49.62                  | 68.23                  | -18.61       |

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|                         |            |                            |                |
|-------------------------|------------|----------------------------|----------------|
| Operation Mode :        | 802.11aB4  | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5825 MHz   | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH HIGH | Test Engineer :            | Enzo           |
| EUT Pol. :              | H          | Measurement Antenna Pol. : | Horizontal     |



| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5850.00      | E               | Peak                         | 49.56                             | 1.01         | 50.57                  | 122.23                 | -71.66       |
| 5855.00      | S               | Peak                         | 49.79                             | 1.01         | 50.79                  | 110.83                 | -60.04       |
| 5875.00      | S               | Peak                         | 49.14                             | 0.99         | 50.13                  | 105.23                 | -55.10       |
| 5925.00      | S               | Peak                         | 49.49                             | 1.04         | 50.52                  | 68.23                  | -17.71       |

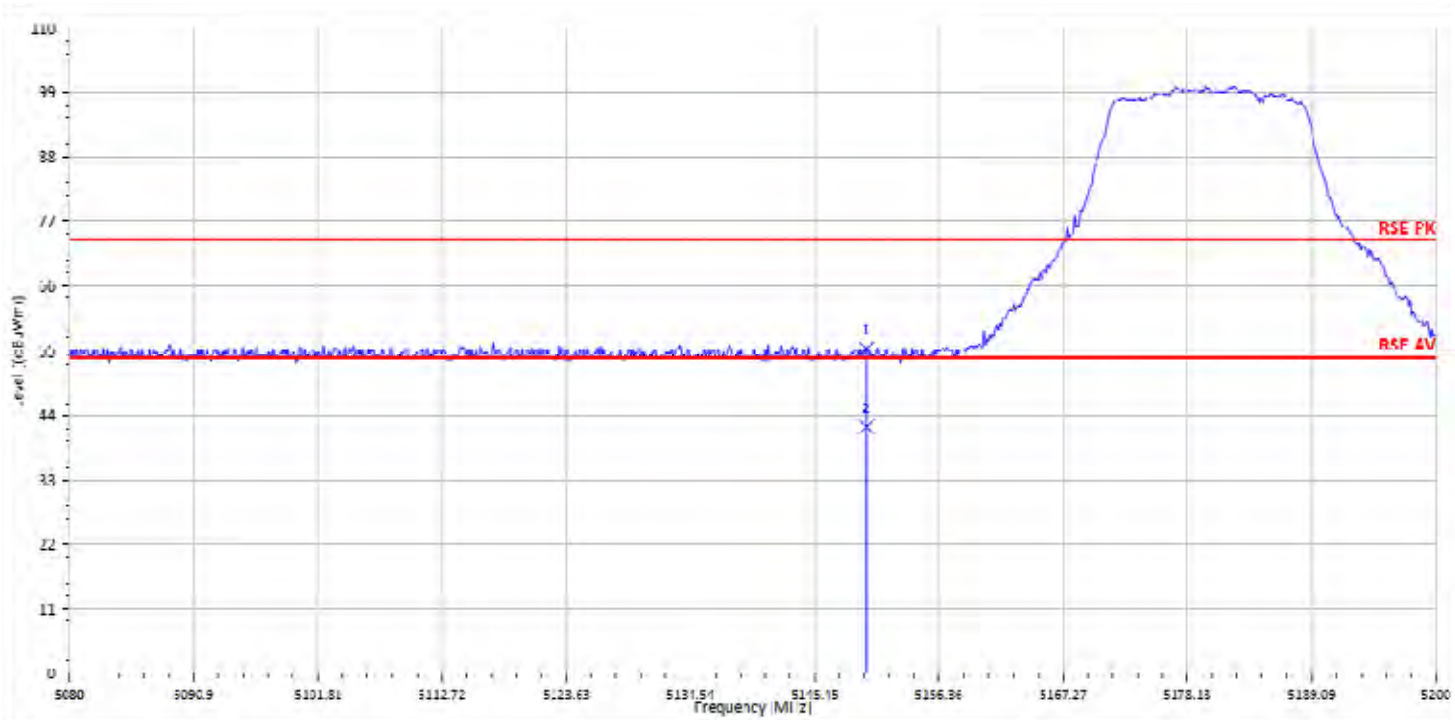
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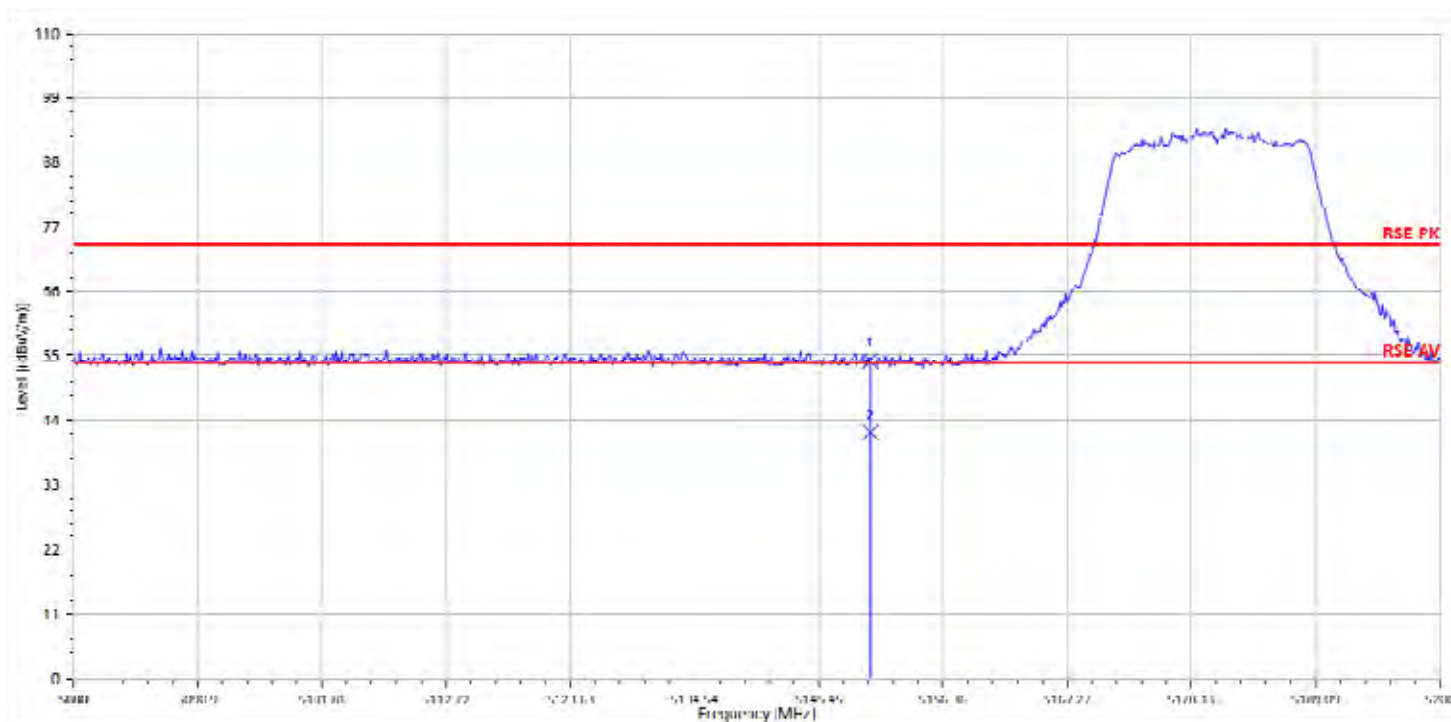
## 802.11n20 HT mode

|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B1 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5180 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH LOW   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Vertical       |



| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5150.00      | E               | Peak                         | 55.31                             | -0.17        | 55.14                  | 74                     | -18.86       |
| 5150.00      | E               | Average                      | 42.37                             | -0.17        | 42.20                  | 54                     | -11.81       |

|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B1 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5180 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH LOW   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Horizontal     |



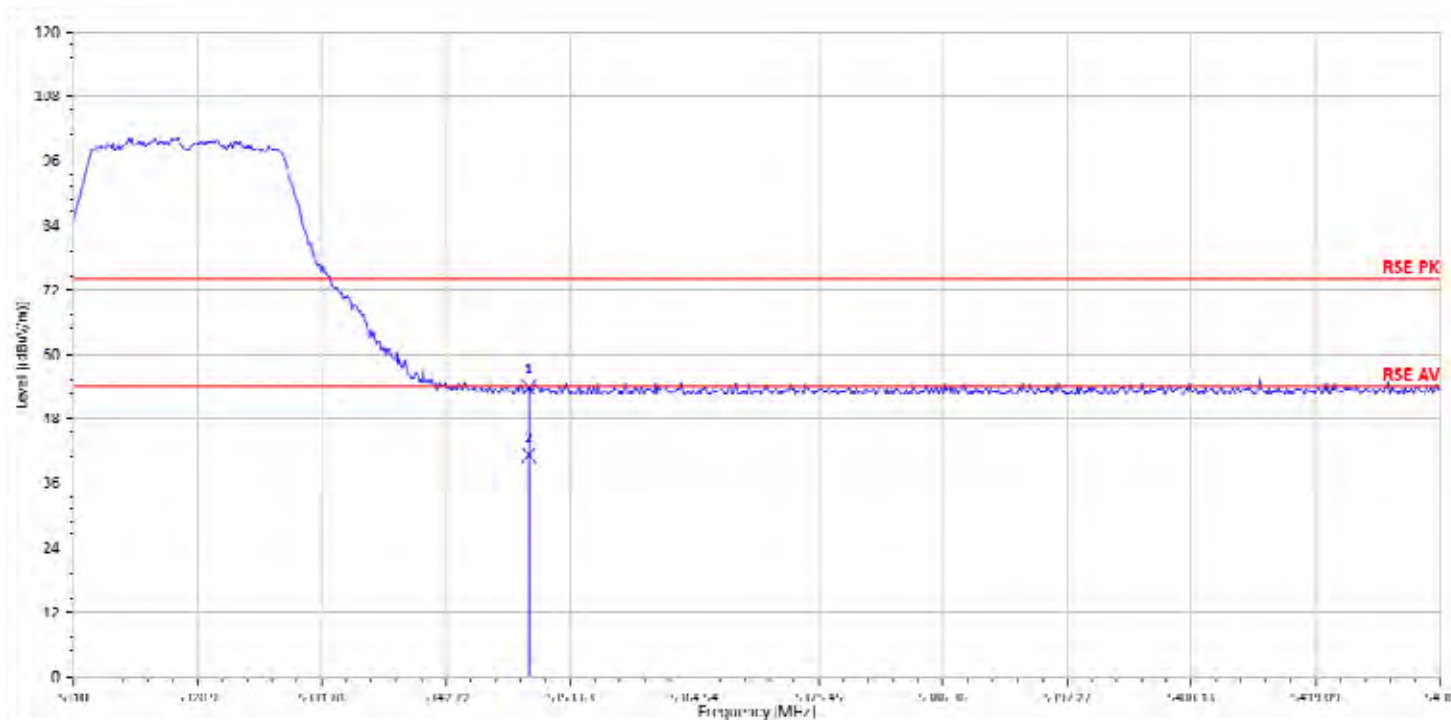
| Freq.   | Note    | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz     | F/H/E/S | PK/QP/AV      | dBμV                   | dB     | dBμV/m    | dBμV/m    | dB     |
| 5150.00 | E       | Peak          | 54.40                  | -0.17  | 54.23     | 74        | -19.77 |
| 5150.00 | E       | Average       | 42.14                  | -0.17  | 41.97     | 54        | -12.03 |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B2 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5320 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH HIGH  | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Vertical       |



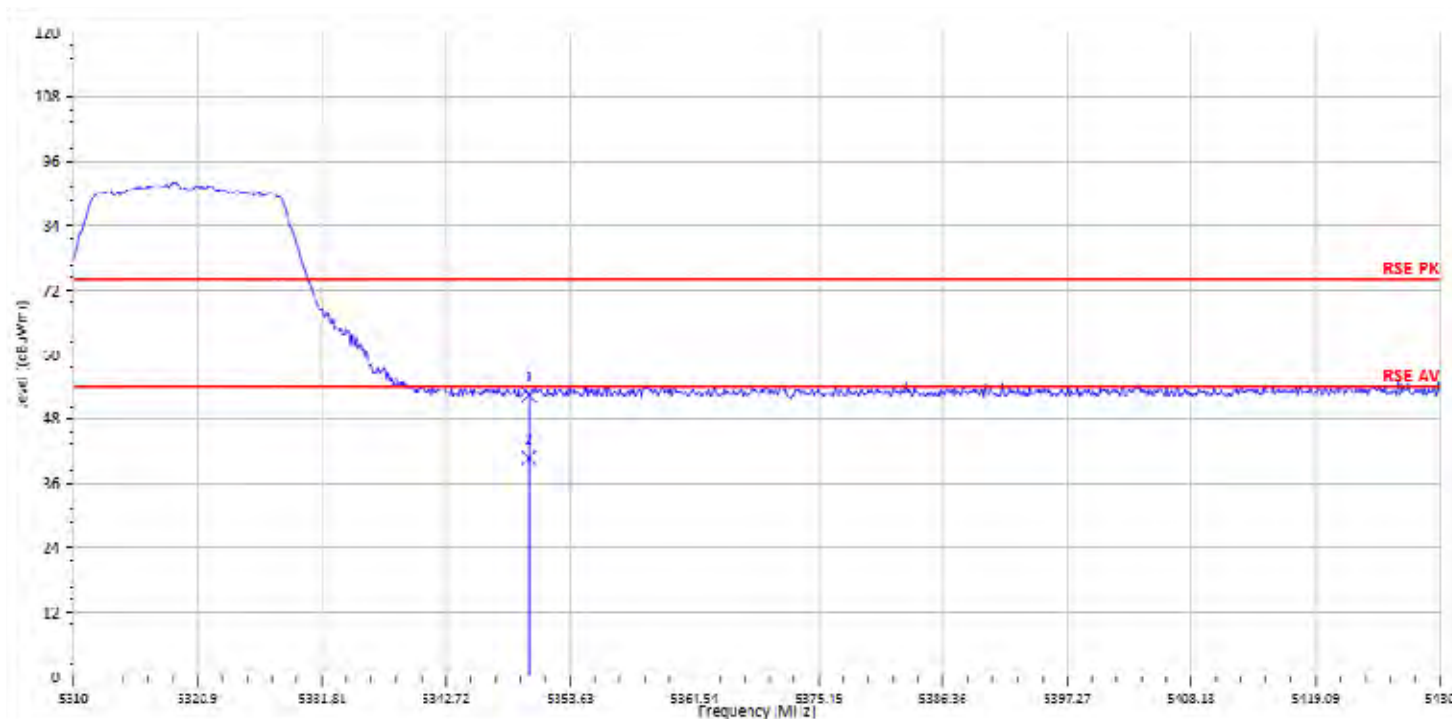
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5350.00      | E               | Peak                         | 53.97                             | -0.15        | 53.81                  | 74                     | -20.19       |
| 5350.00      | E               | Average                      | 41.30                             | -0.15        | 41.14                  | 54                     | -12.86       |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B2 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5320 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH HIGH  | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Horizontal     |



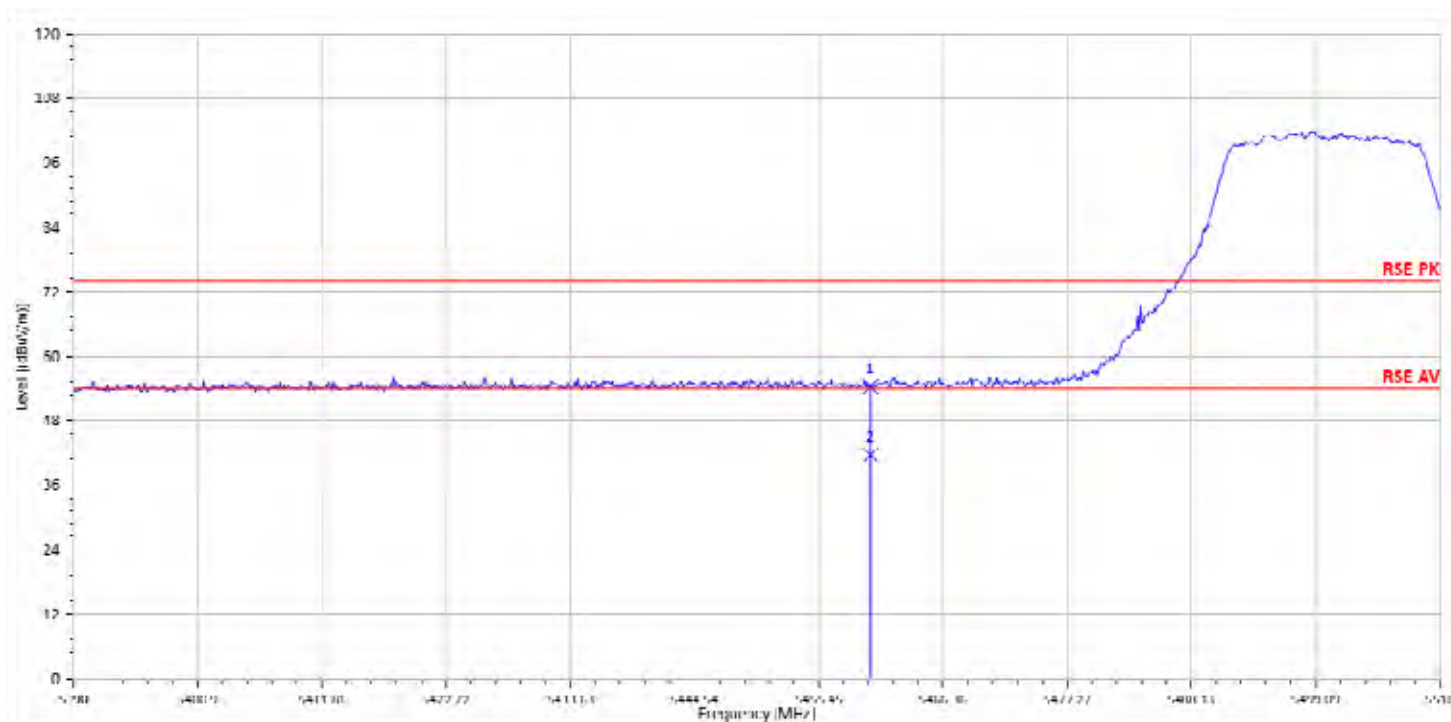
| Freq.   | Note    | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| MHz     | F/H/E/S | Mode     | Reading Level | dB     | FS     | @3m    | dB     |
|         |         | PK/QP/AV | dBμV          |        | dBμV/m | dBμV/m |        |
| 5350.00 | E       | Peak     | 52.70         | -0.15  | 52.54  | 74     | -21.46 |
| 5350.00 | E       | Average  | 40.91         | -0.15  | 40.76  | 54     | -13.24 |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B3 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5500 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH LOW   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Vertical       |



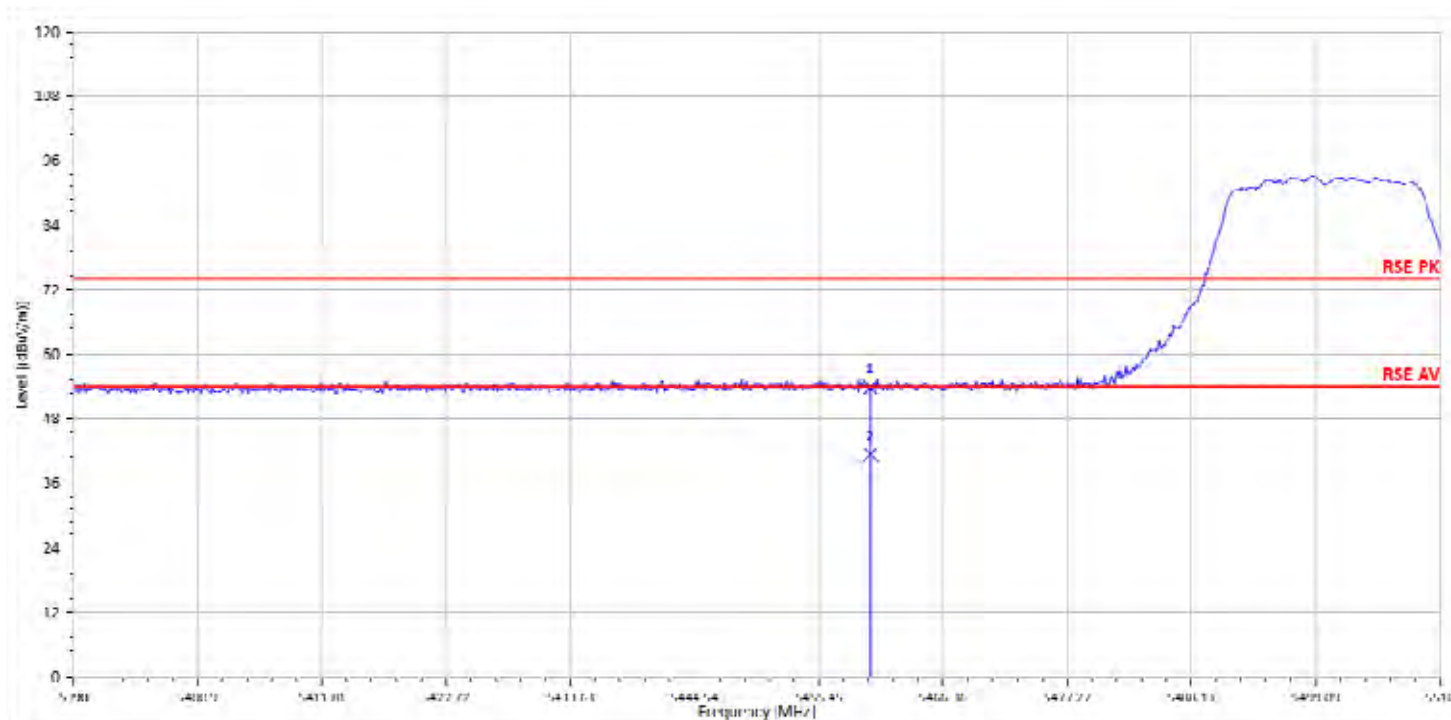
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5460.00      | E               | Peak                         | 54.26                             | 0.06         | 54.32                  | 74                     | -19.68       |
| 5460.00      | E               | Average                      | 41.49                             | 0.06         | 41.54                  | 54                     | -12.46       |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B3 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5500 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH LOW   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Horizontal     |



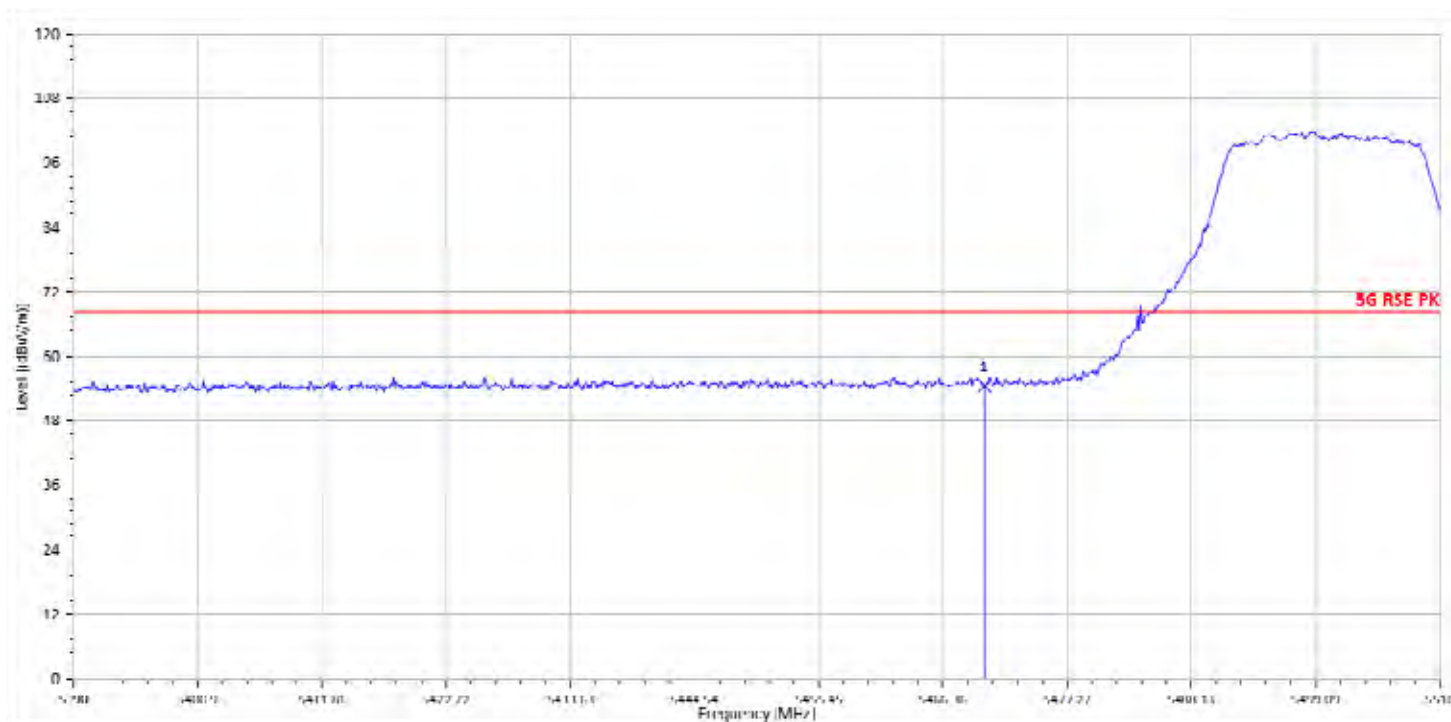
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5460.00      | E               | Peak                         | 53.78                             | 0.06         | 53.83                  | 74                     | -20.17       |
| 5460.00      | E               | Average                      | 41.26                             | 0.06         | 41.31                  | 54                     | -12.69       |

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|                         |               |                            |                |
|-------------------------|---------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B3   | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5500 MHz      | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH LOW RSE | Test Engineer :            | Enzo           |
| EUT Pol. :              | H             | Measurement Antenna Pol. : | Vertical       |



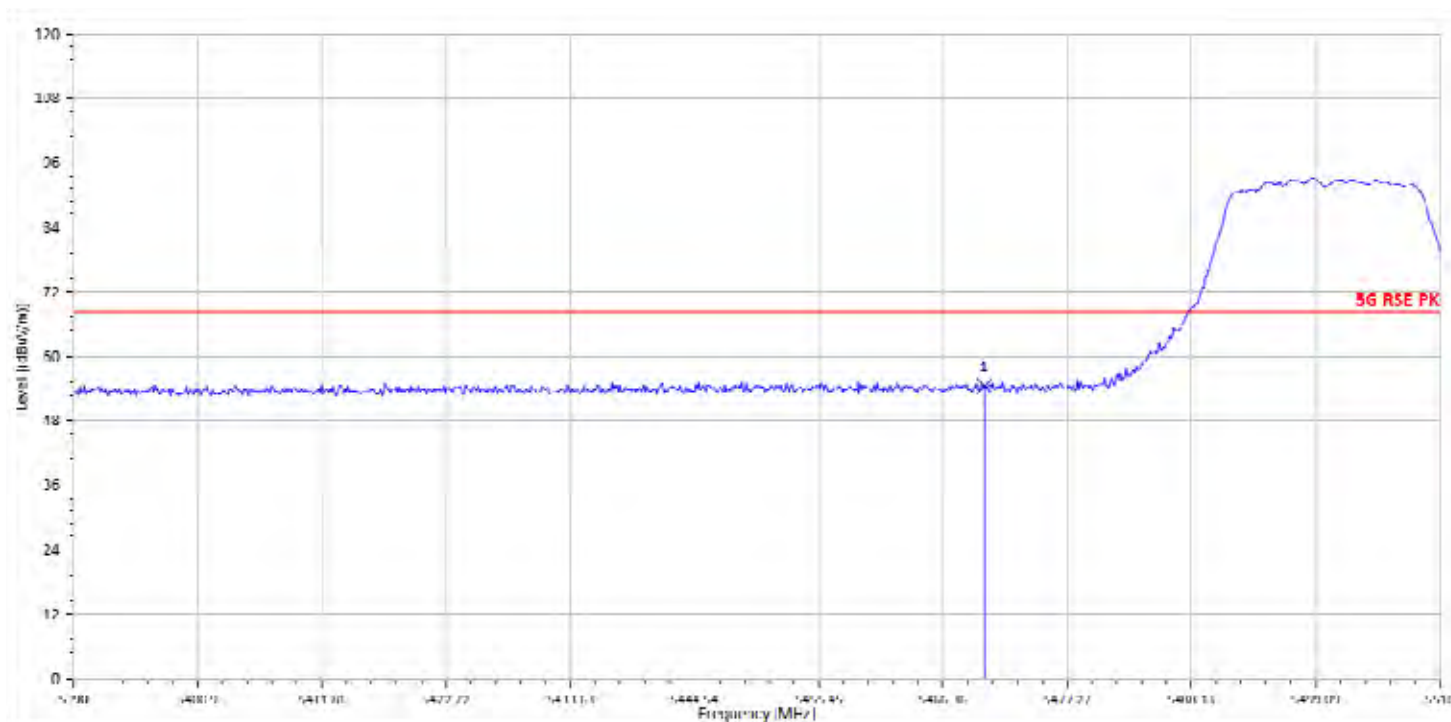
| Freq.   | Note    | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz     | F/H/E/S | PK/QP/AV      | dBμV                   | dB     | dBμV/m    | dBμV/m    | dB     |
| 5470.00 | E       | Peak          | 54.44                  | 0.08   | 54.52     | 68.3      | -13.78 |

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|                         |               |                            |                |
|-------------------------|---------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B3   | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5500 MHz      | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH LOW RSE | Test Engineer :            | Enzo           |
| EUT Pol. :              | H             | Measurement Antenna Pol. : | Horizontal     |



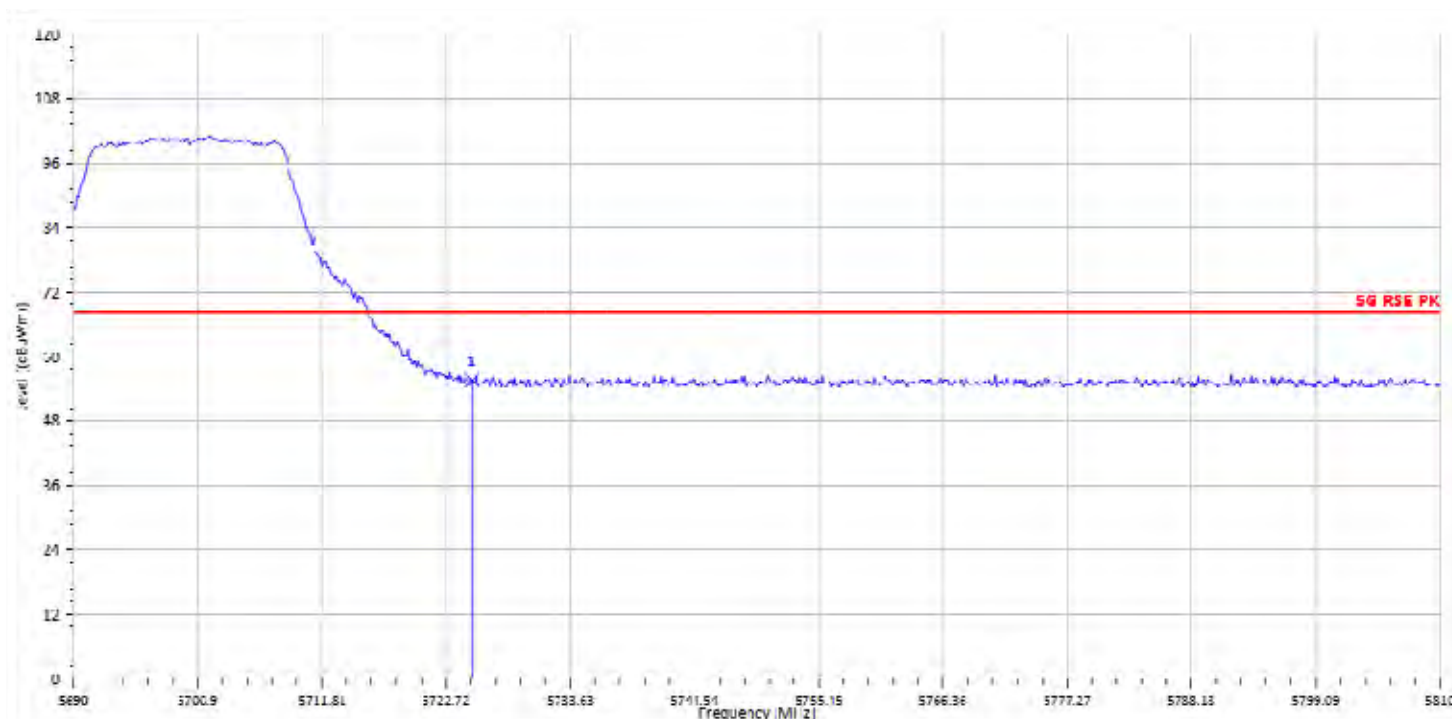
| Freq.   | Note    | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz     | F/H/E/S | PK/QP/AV      | dBμV                   | dB     | dBμV/m    | dBμV/m    | dB     |
| 5470.00 | E       | Peak          | 54.36                  | 0.08   | 54.44     | 68.3      | -13.86 |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B3 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5700 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH HIGH  | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Vertical       |



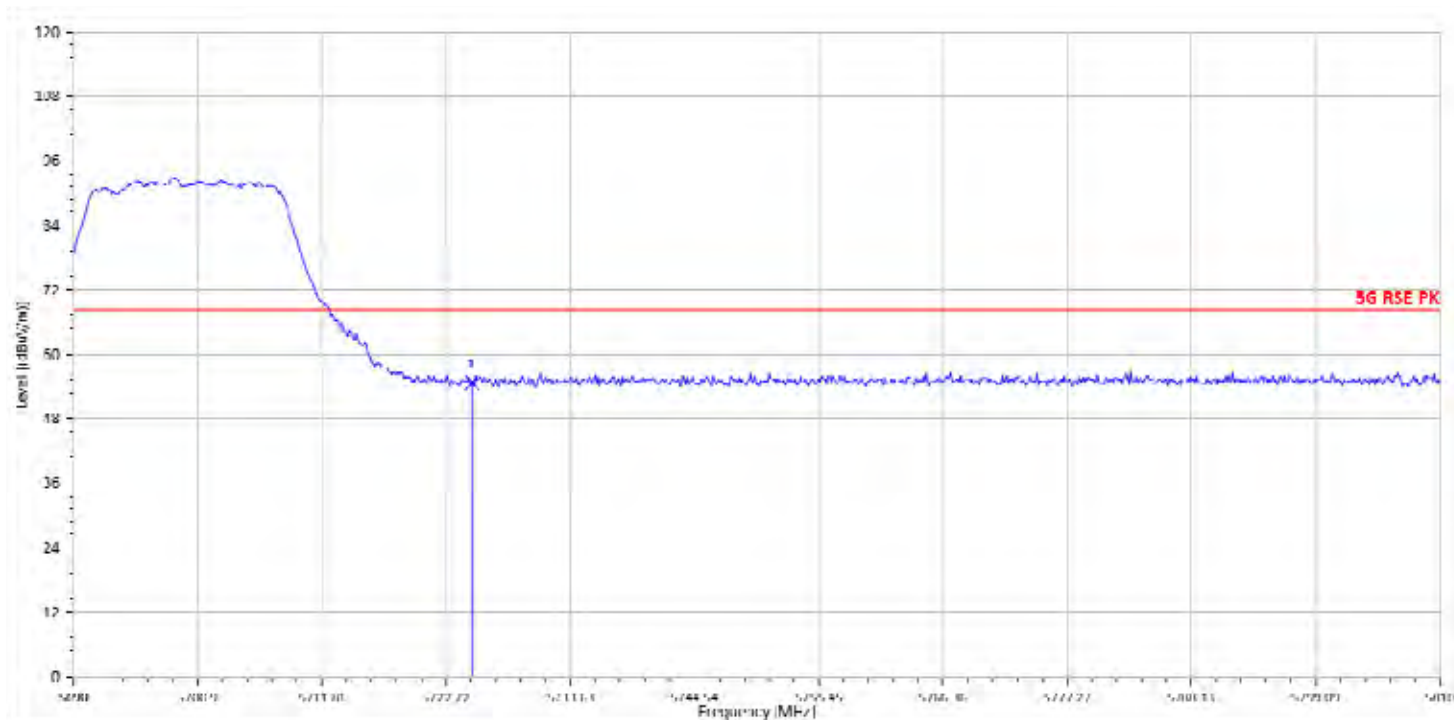
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5725.00      | E               | Peak                         | 54.91                             | 0.69         | 55.59                  | 68.3                   | -12.71       |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B3 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5700 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH HIGH  | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Horizontal     |



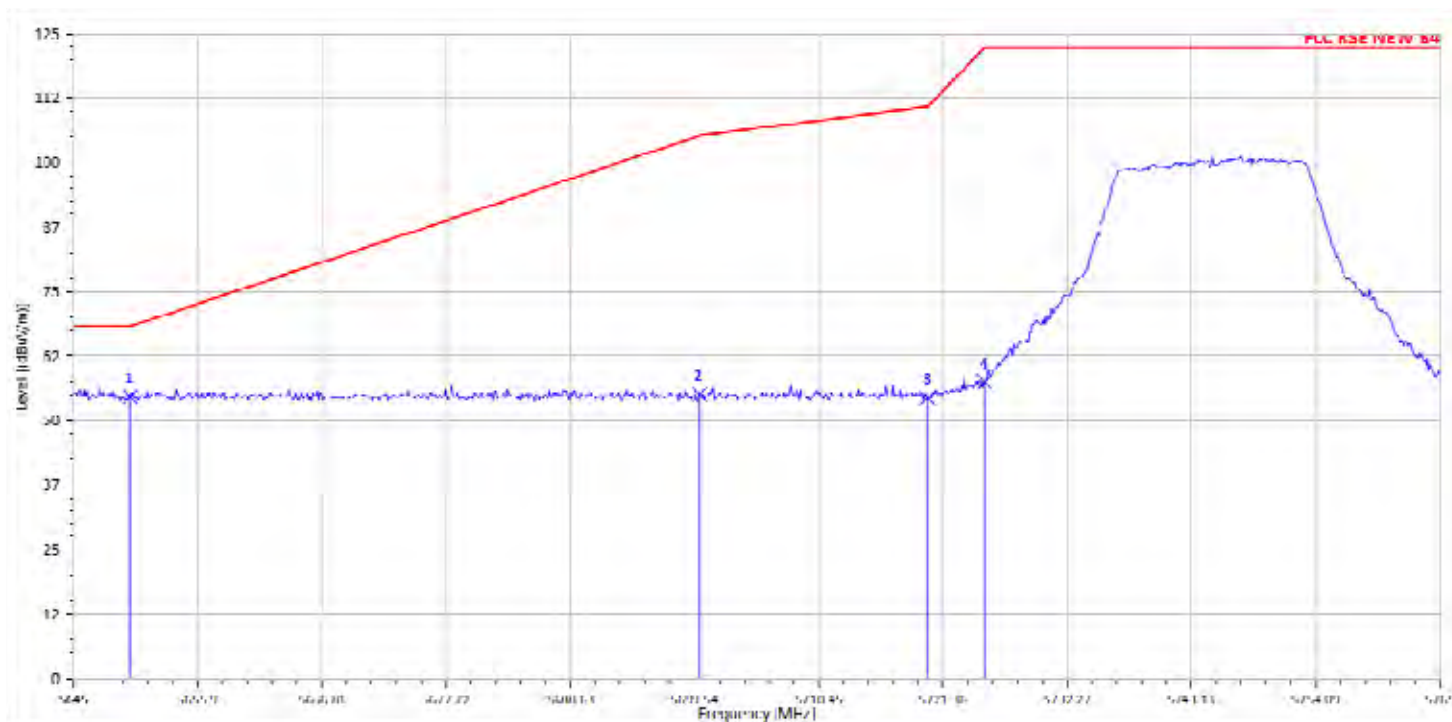
| Freq.   | Note    | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz     | F/H/E/S | PK/QP/AV      | dBμV                   | dB     | dBμV/m    | dBμV/m    | dB     |
| 5725.00 | E       | Peak          | 54.02                  | 0.69   | 54.71     | 68.3      | -13.59 |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B4 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5745 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH LOW   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Vertical       |



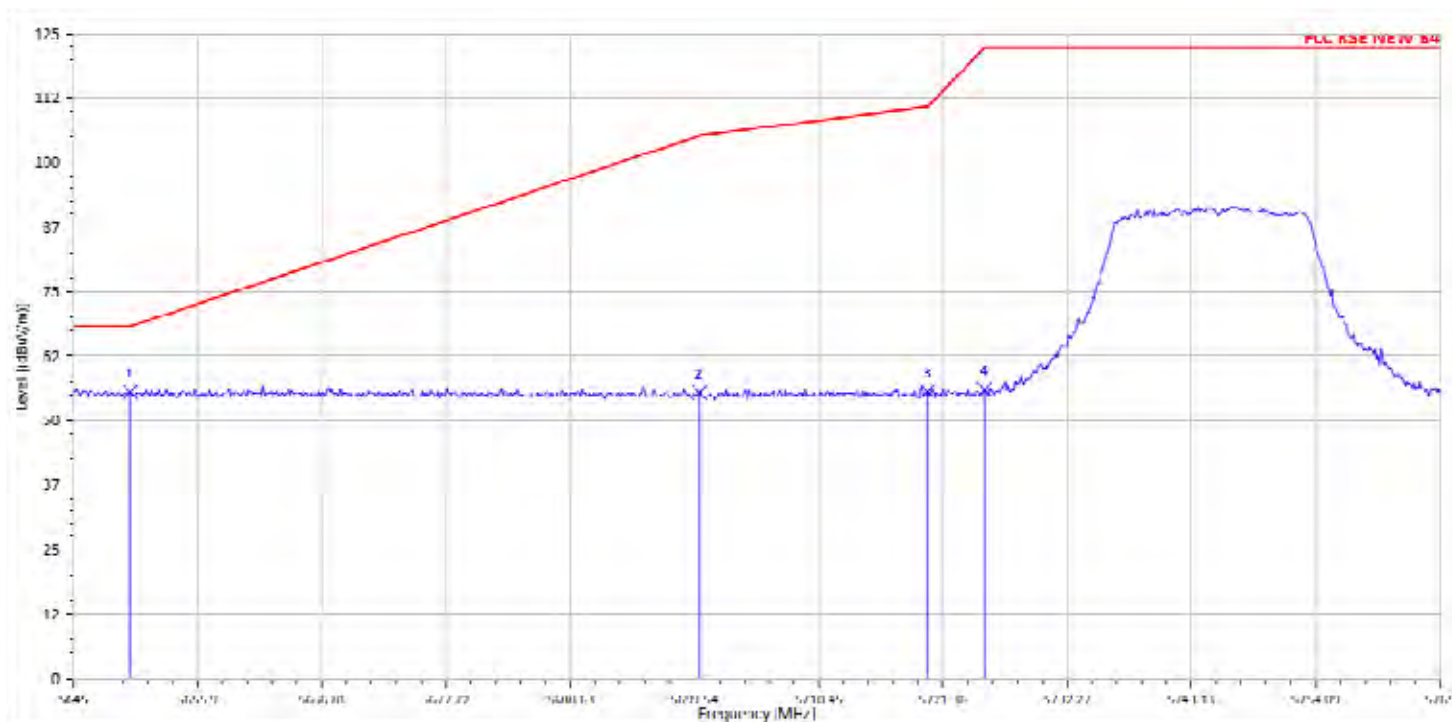
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5650.00      | S               | Peak                         | 53.99                             | 0.63         | 54.62                  | 68.23                  | -13.61       |
| 5700.00      | S               | Peak                         | 54.52                             | 0.56         | 55.08                  | 105.23                 | -50.15       |
| 5720.00      | S               | Peak                         | 53.69                             | 0.66         | 54.35                  | 110.83                 | -56.48       |
| 5725.00      | E               | Peak                         | 56.81                             | 0.69         | 57.50                  | 122.23                 | -64.73       |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B4 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5745 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH LOW   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Horizontal     |



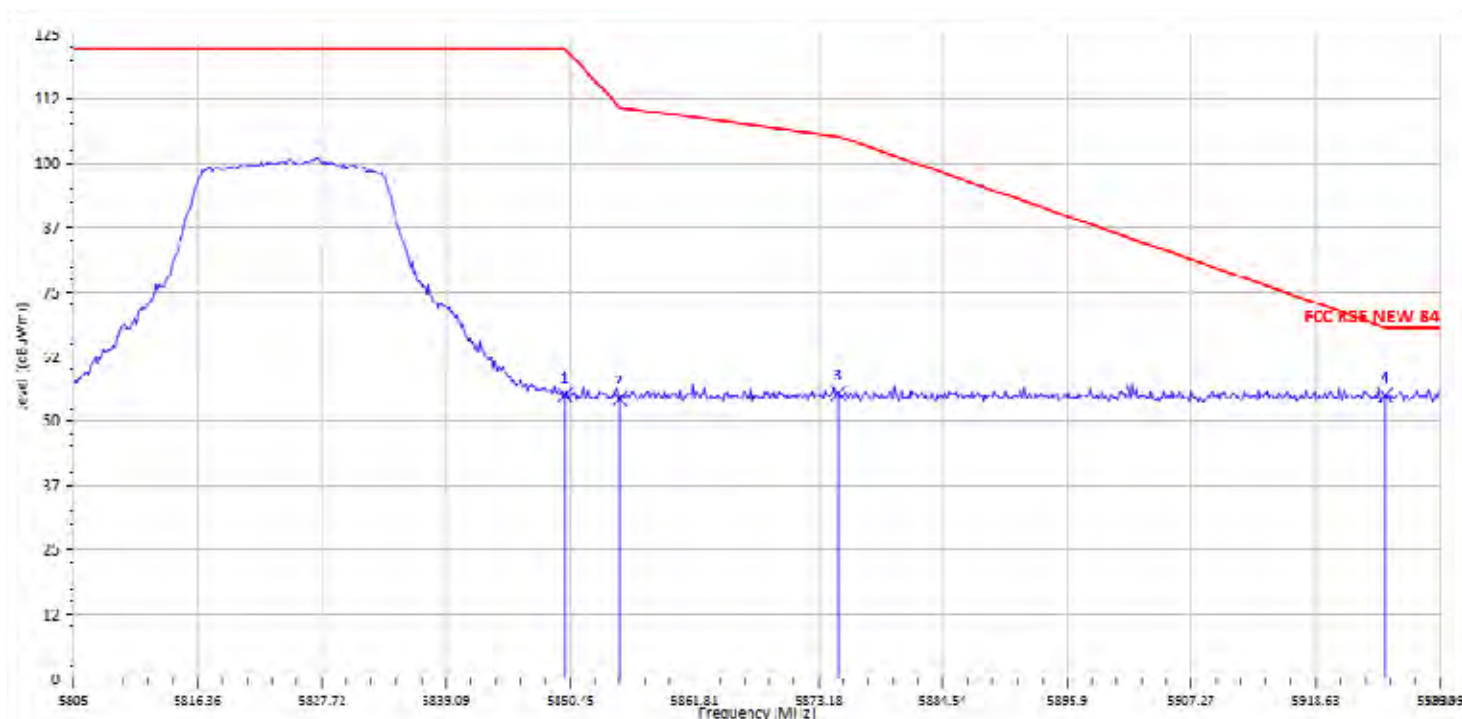
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5650.00      | S               | Peak                         | 54.92                             | 0.63         | 55.54                  | 68.23                  | -12.69       |
| 5700.00      | S               | Peak                         | 54.89                             | 0.56         | 55.45                  | 105.23                 | -49.78       |
| 5720.00      | S               | Peak                         | 55.03                             | 0.66         | 55.69                  | 110.83                 | -55.14       |
| 5725.00      | E               | Peak                         | 55.35                             | 0.69         | 56.03                  | 122.23                 | -66.20       |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B4 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5825 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH HIGH  | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Vertical       |



| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5850.00      | E               | Peak                         | 54.01                             | 1.01         | 55.02                  | 122.23                 | -67.21       |
| 5855.00      | S               | Peak                         | 53.33                             | 1.01         | 54.33                  | 110.83                 | -56.50       |
| 5875.00      | S               | Peak                         | 54.34                             | 0.99         | 55.33                  | 105.23                 | -49.90       |
| 5925.00      | S               | Peak                         | 53.93                             | 1.04         | 54.96                  | 68.23                  | -13.27       |

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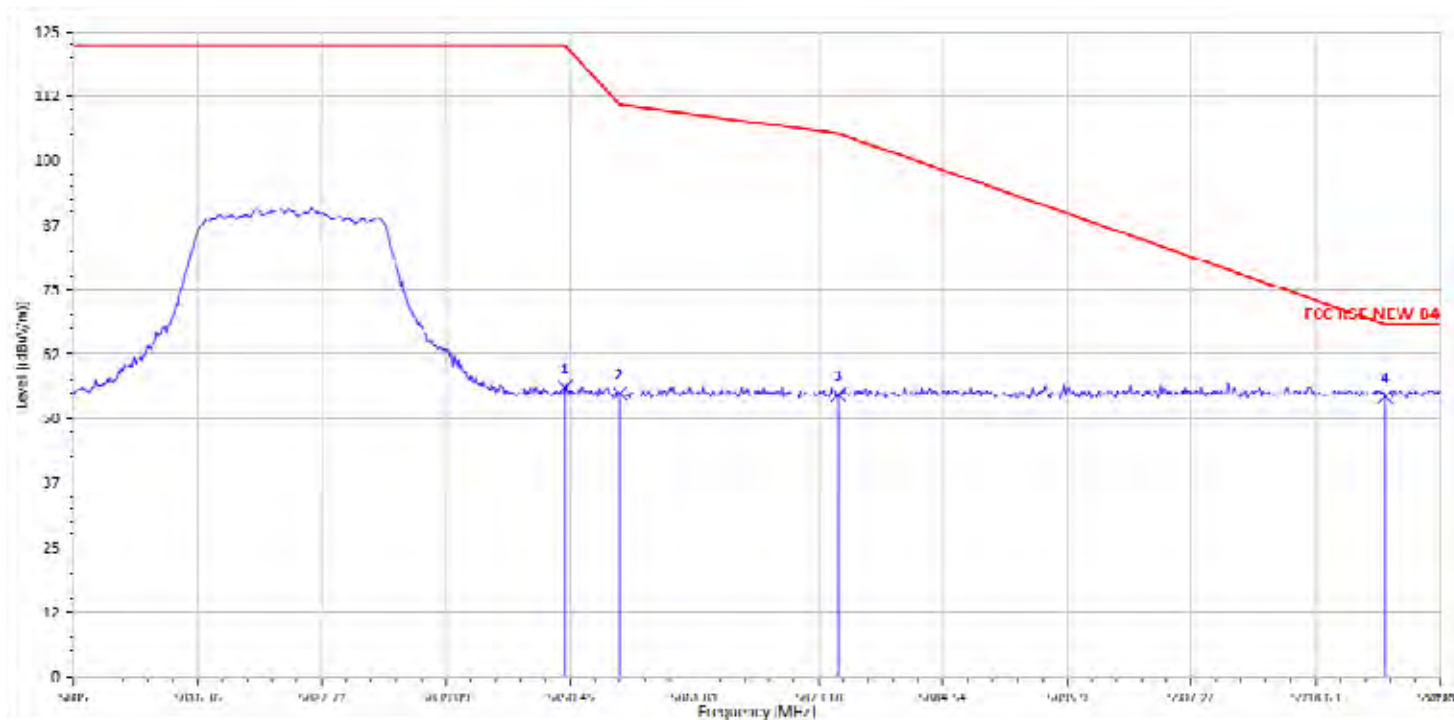
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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n20B4 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5825 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH HIGH  | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Horizontal     |



| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5850.00      | E               | Peak                         | 55.04                             | 1.01         | 56.05                  | 122.23                 | -66.18       |
| 5855.00      | S               | Peak                         | 53.90                             | 1.01         | 54.91                  | 110.83                 | -55.92       |
| 5875.00      | S               | Peak                         | 53.62                             | 0.99         | 54.60                  | 105.23                 | -50.63       |
| 5925.00      | S               | Peak                         | 53.22                             | 1.04         | 54.26                  | 68.23                  | -13.97       |

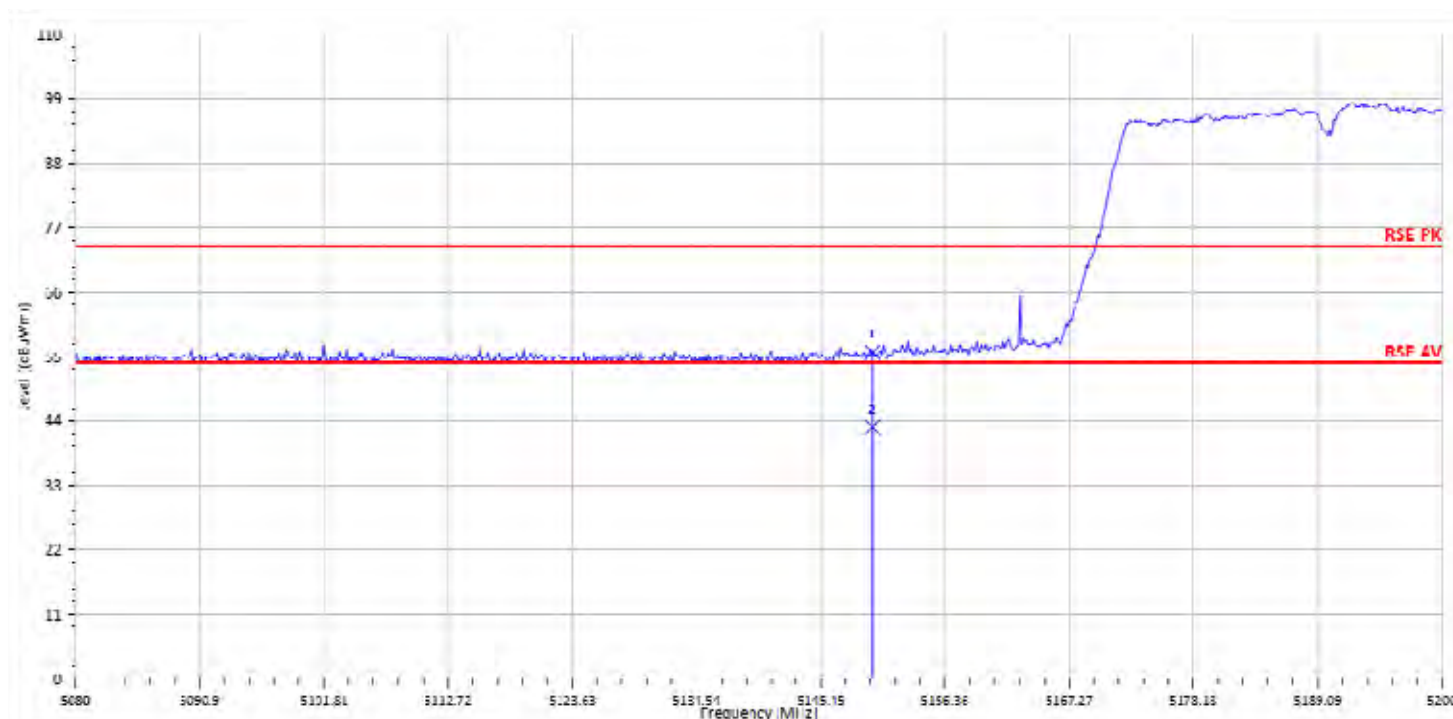
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## 802.11n40 HT mode

|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n40B1 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5190 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH LOW   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Vertical       |



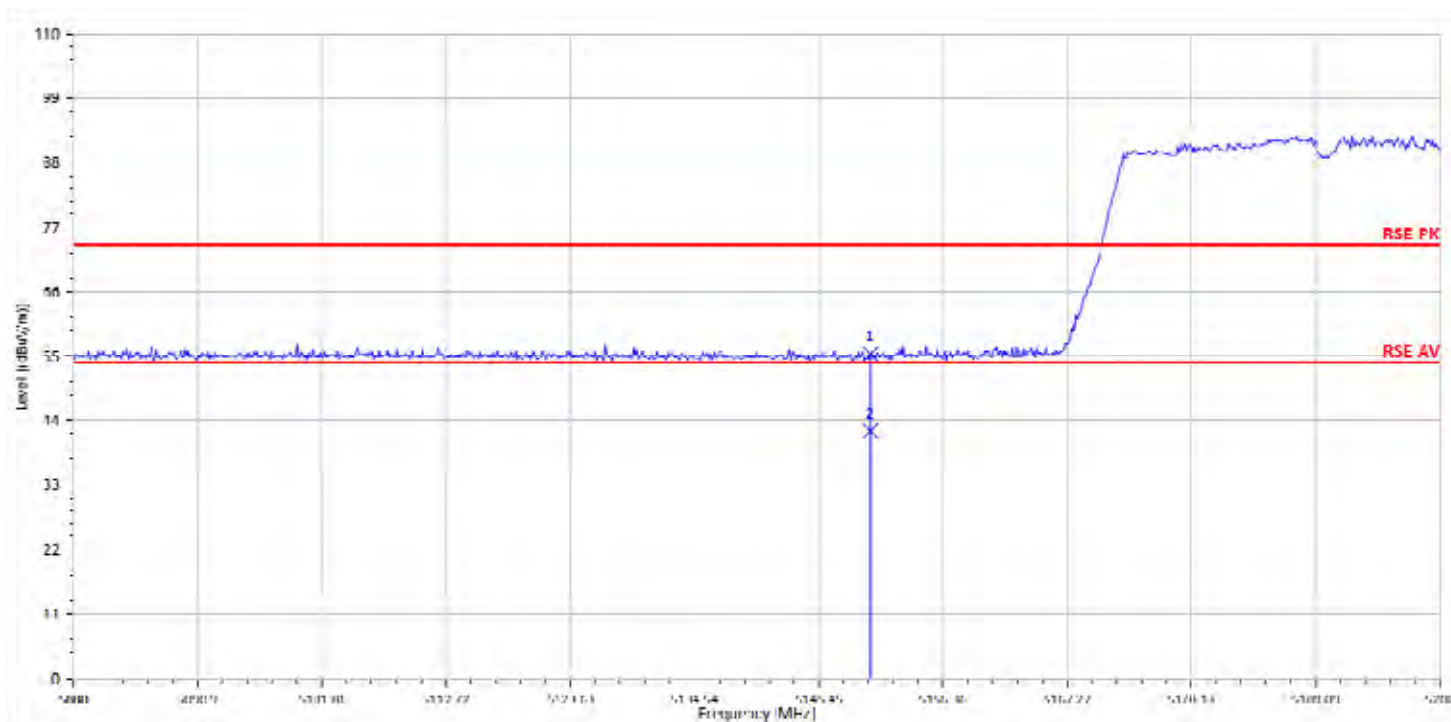
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5150.00      | E               | Peak                         | 55.91                             | -0.17        | 55.74                  | 74                     | -18.26       |
| 5150.00      | E               | Average                      | 43.14                             | -0.17        | 42.97                  | 54                     | -11.03       |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n40B1 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5190 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH LOW   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Horizontal     |



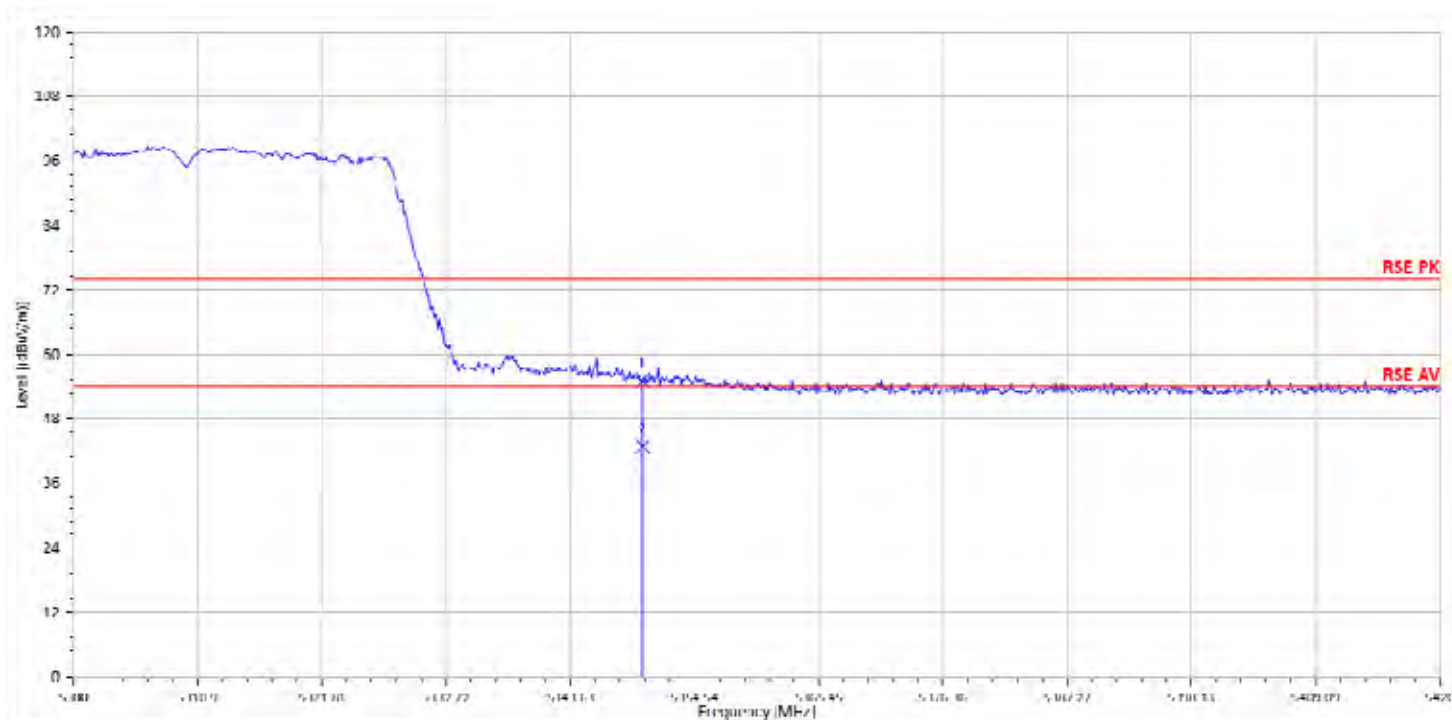
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5150.00      | E               | Peak                         | 55.50                             | -0.17        | 55.33                  | 74                     | -18.67       |
| 5150.00      | E               | Average                      | 42.31                             | -0.17        | 42.14                  | 54                     | -11.86       |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n40B2 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5310 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH HIGH  | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Vertical       |



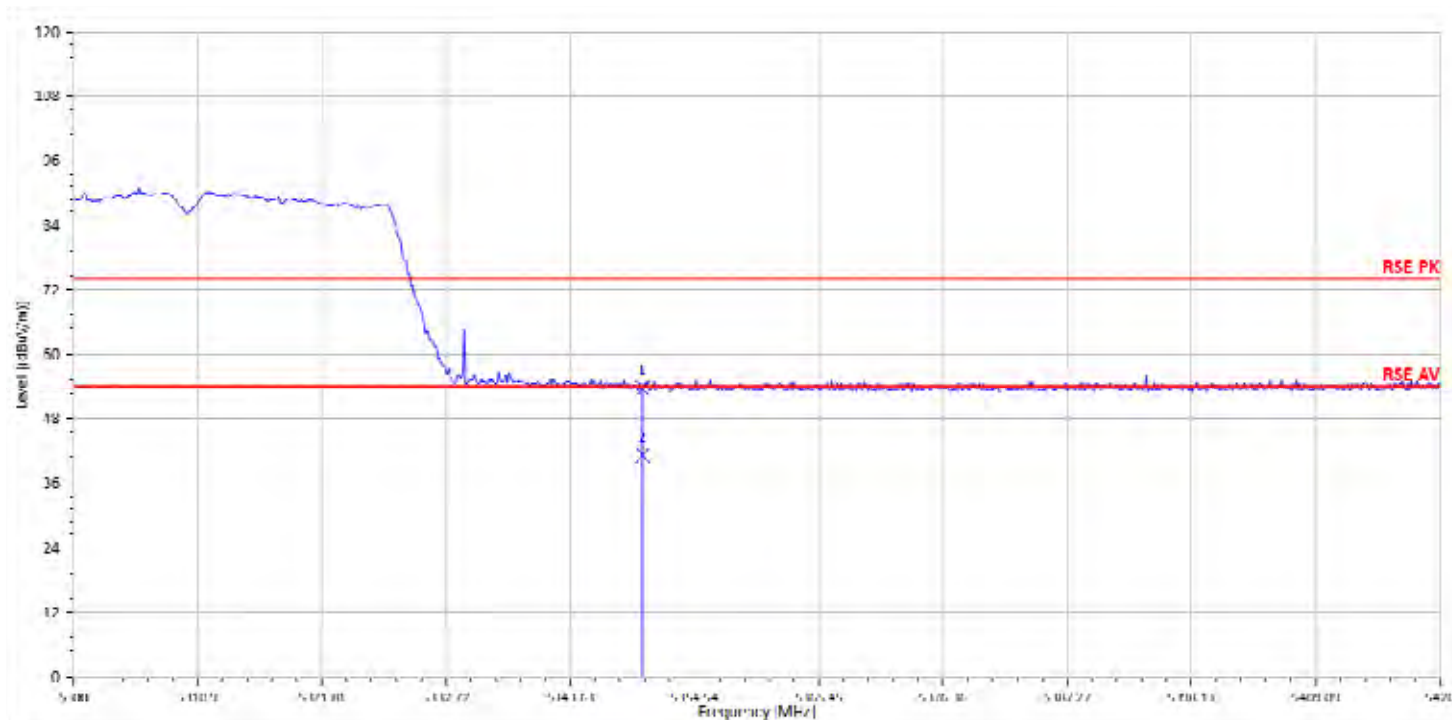
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5350.00      | E               | Peak                         | 55.24                             | -0.15        | 55.09                  | 74                     | -18.91       |
| 5350.00      | E               | Average                      | 42.94                             | -0.15        | 42.78                  | 54                     | -11.22       |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n40B2 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5310 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH HIGH  | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Horizontal     |



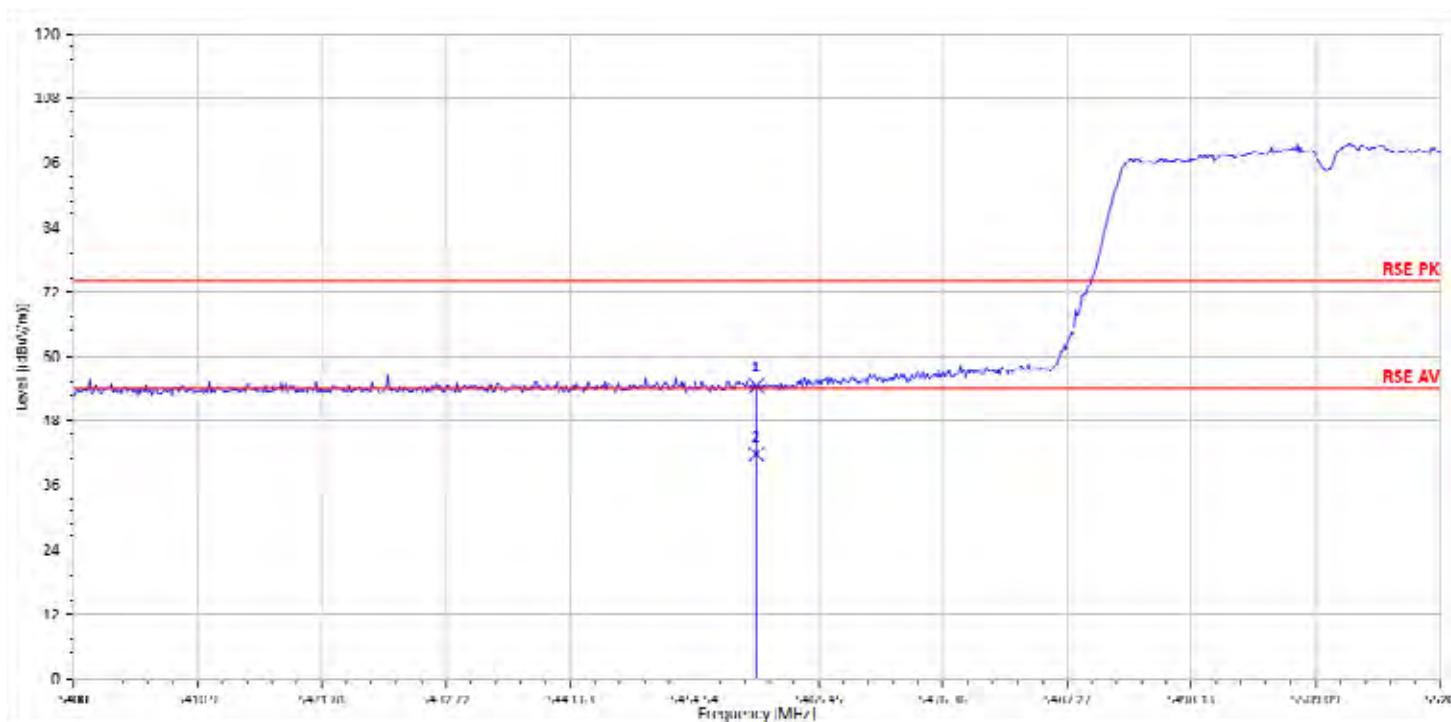
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5350.00      | E               | Peak                         | 53.84                             | -0.15        | 53.69                  | 74                     | -20.31       |
| 5350.00      | E               | Average                      | 41.32                             | -0.15        | 41.16                  | 54                     | -12.84       |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n40B3 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5510 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH LOW   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Vertical       |



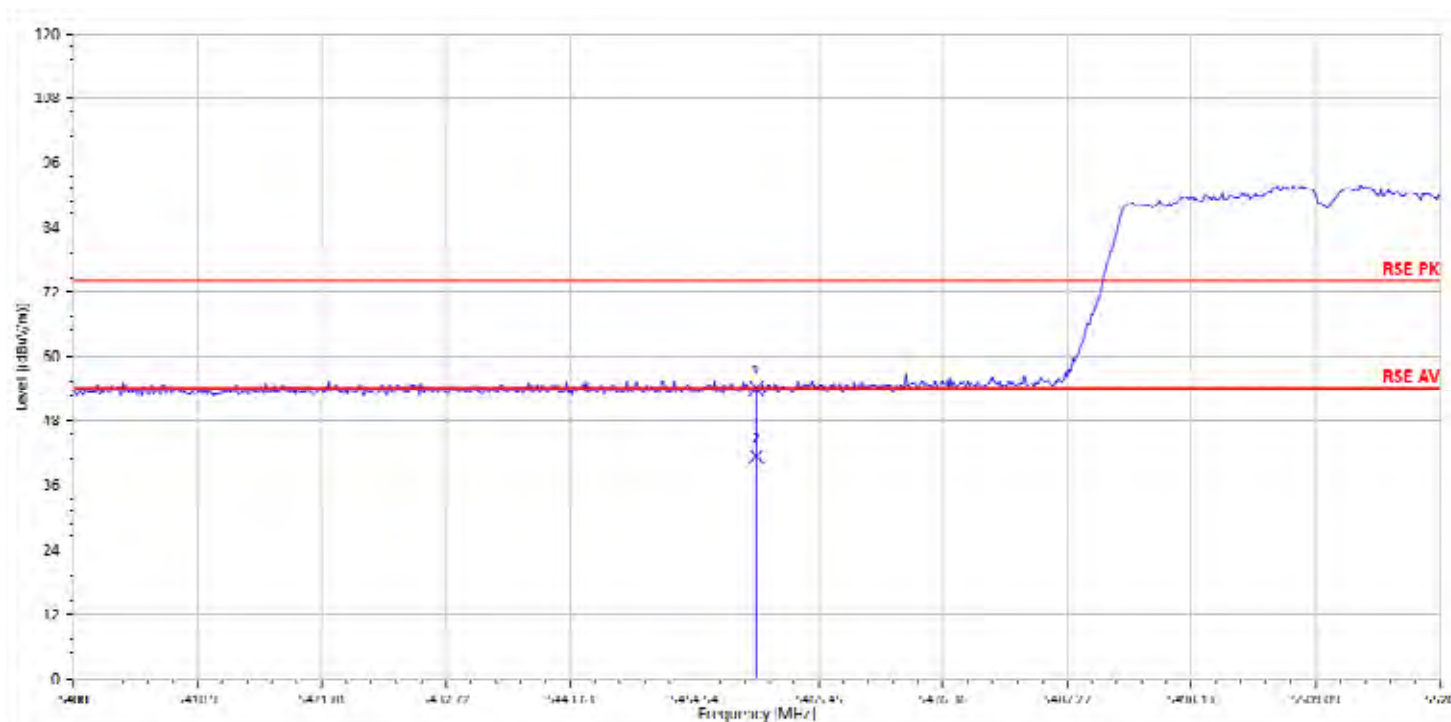
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5460.00      | E               | Peak                         | 54.43                             | 0.06         | 54.48                  | 74                     | -19.52       |
| 5460.00      | E               | Average                      | 41.64                             | 0.06         | 41.70                  | 54                     | -12.30       |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n40B3 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5510 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH LOW   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Horizontal     |



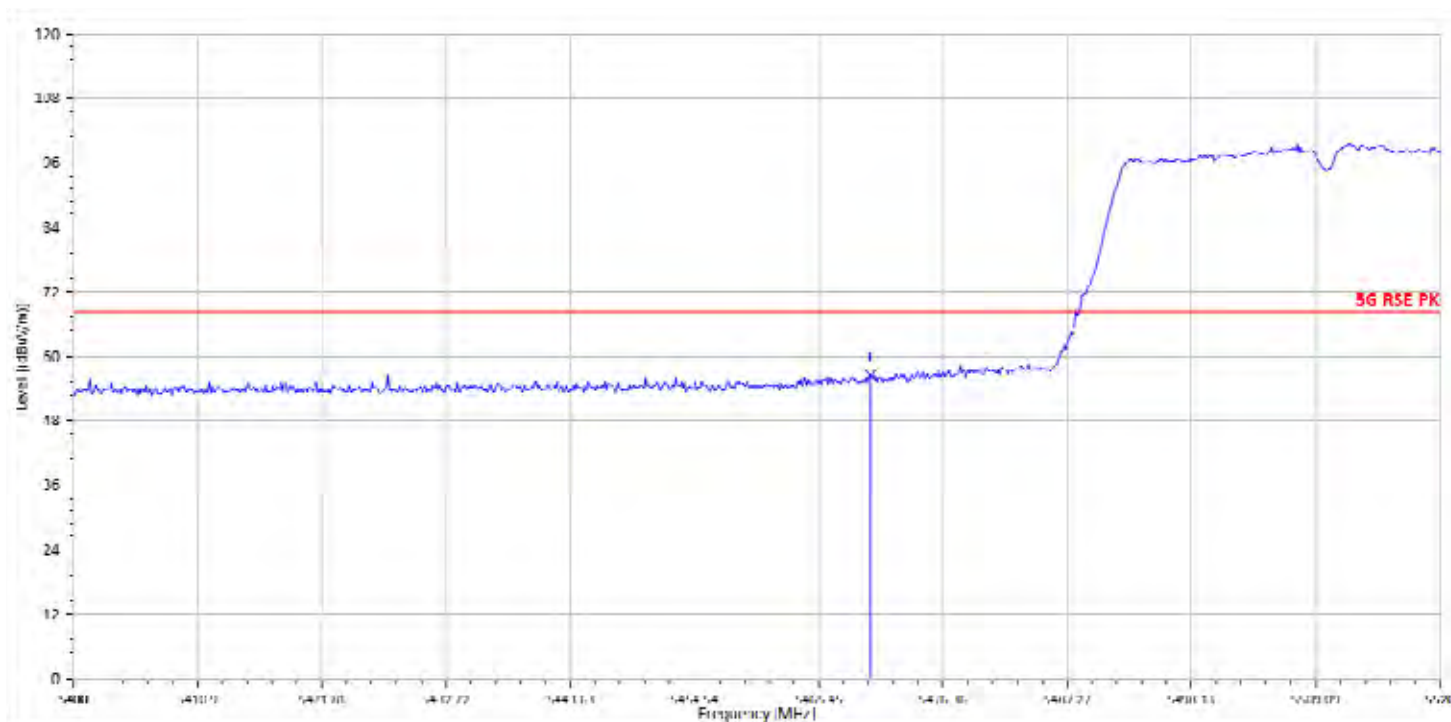
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5460.00      | E               | Peak                         | 53.97                             | 0.06         | 54.03                  | 74                     | -19.97       |
| 5460.00      | E               | Average                      | 41.29                             | 0.06         | 41.35                  | 54                     | -12.65       |

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|                         |               |                            |                |
|-------------------------|---------------|----------------------------|----------------|
| Operation Mode :        | 802.11n40B3   | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5510 MHz      | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH LOW RSE | Test Engineer :            | Enzo           |
| EUT Pol. :              | H             | Measurement Antenna Pol. : | Vertical       |



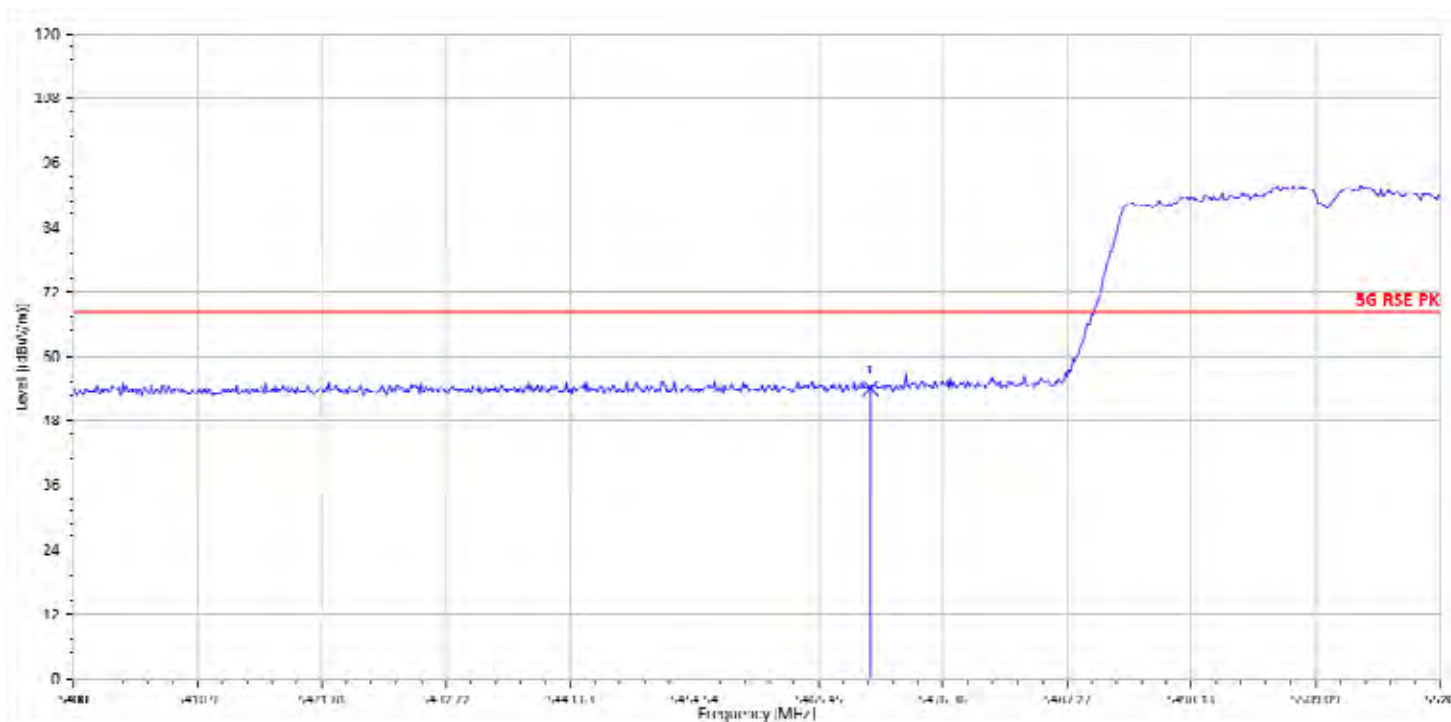
| Freq.   | Note    | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz     | F/H/E/S | PK/QP/AV      | dBμV                   | dB     | dBμV/m    | dBμV/m    | dB     |
| 5470.00 | E       | Peak          | 56.36                  | 0.08   | 56.44     | 68.3      | -11.86 |

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|                         |               |                            |                |
|-------------------------|---------------|----------------------------|----------------|
| Operation Mode :        | 802.11n40B3   | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5510 MHz      | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH LOW RSE | Test Engineer :            | Enzo           |
| EUT Pol. :              | H             | Measurement Antenna Pol. : | Horizontal     |



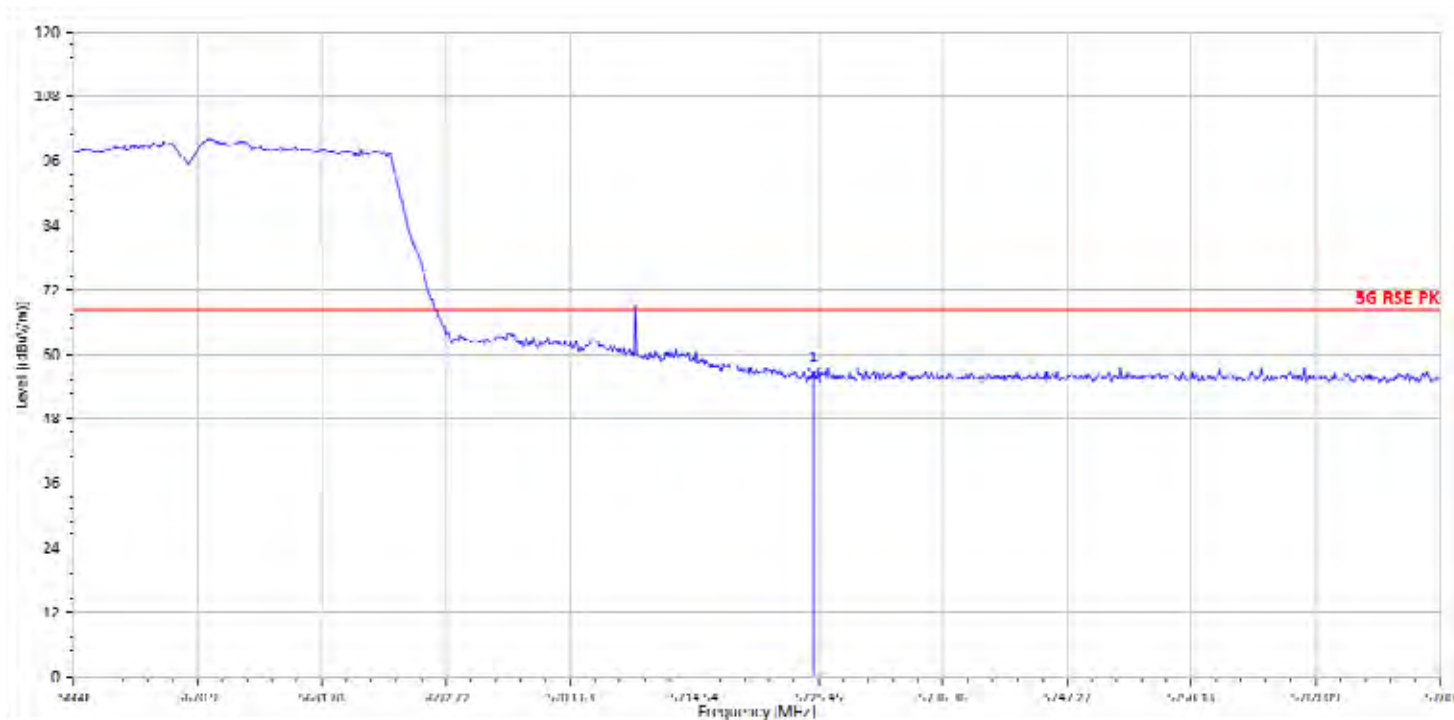
| Freq.   | Note    | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz     | F/H/E/S | PK/QP/AV      | dBμV                   | dB     | dBμV/m    | dBμV/m    | dB     |
| 5470.00 | E       | Peak          | 53.98                  | 0.08   | 54.06     | 68.3      | -14.24 |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n40B3 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5670 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH HIGH  | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Vertical       |



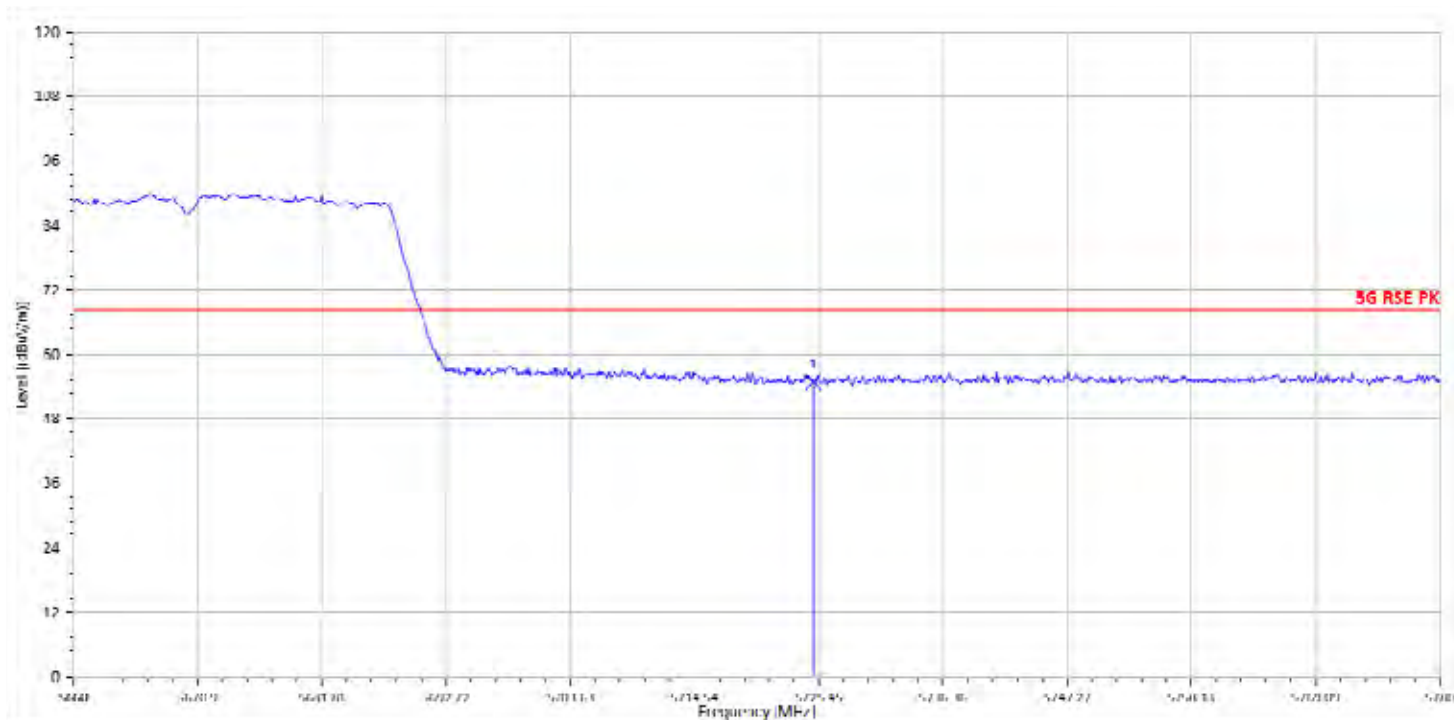
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5725.00      | E               | Peak                         | 55.53                             | 0.69         | 56.21                  | 68.3                   | -12.09       |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n40B3 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5670 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH HIGH  | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Horizontal     |



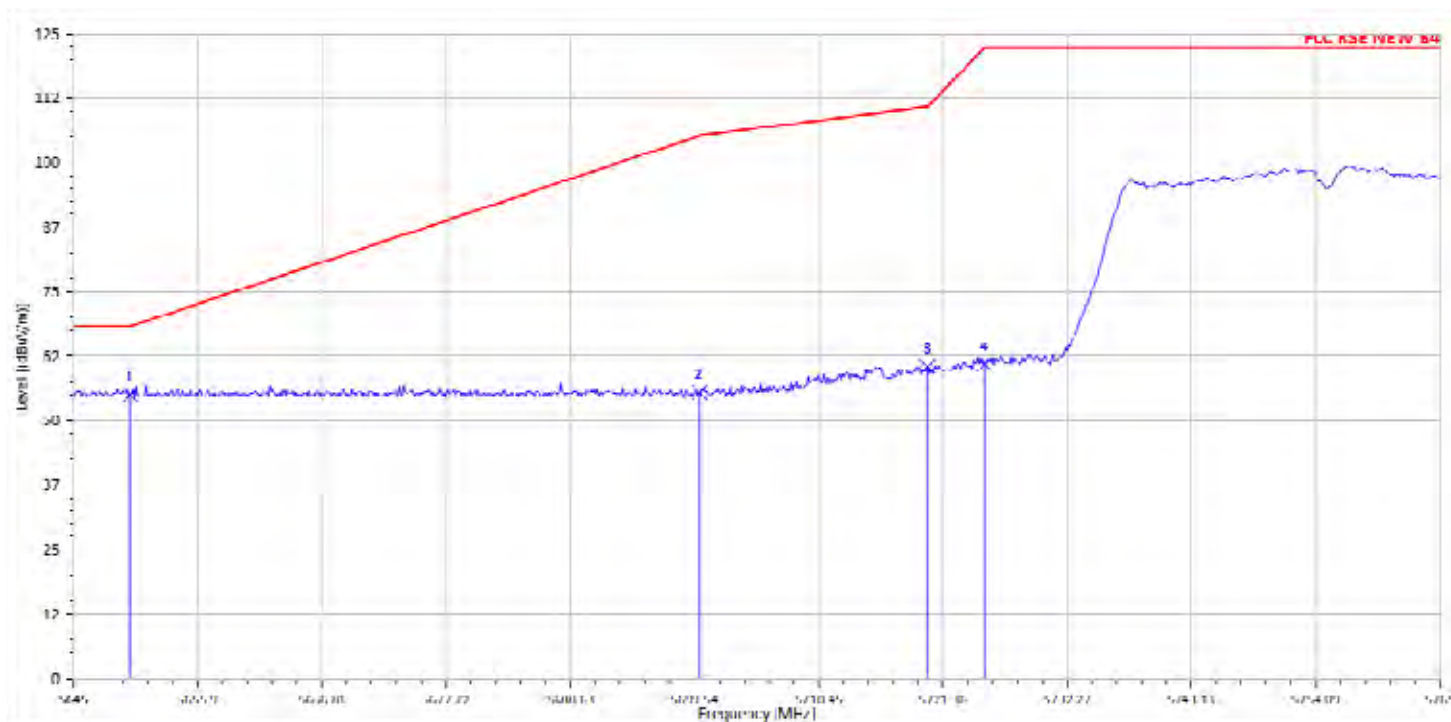
| Freq.   | Note    | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz     | F/H/E/S | PK/QP/AV      | dBμV                   | dB     | dBμV/m    | dBμV/m    | dB     |
| 5725.00 | E       | Peak          | 54.16                  | 0.69   | 54.84     | 68.3      | -13.46 |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n40B4 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5755 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH LOW   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Vertical       |



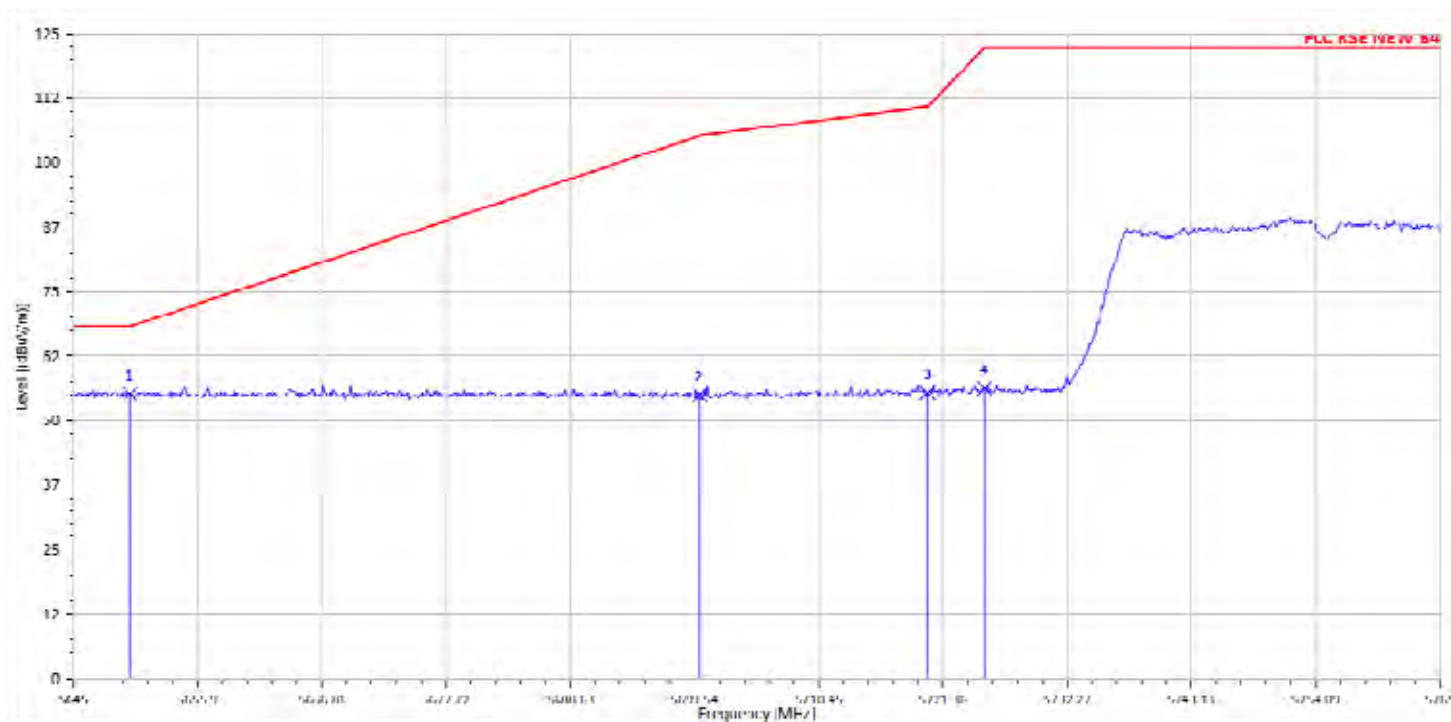
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5650.00      | S               | Peak                         | 54.29                             | 0.63         | 54.92                  | 68.23                  | -13.31       |
| 5700.00      | S               | Peak                         | 54.89                             | 0.56         | 55.45                  | 105.23                 | -49.78       |
| 5720.00      | S               | Peak                         | 59.82                             | 0.66         | 60.48                  | 110.83                 | -50.35       |
| 5725.00      | E               | Peak                         | 60.21                             | 0.69         | 60.89                  | 122.23                 | -61.34       |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n40B4 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5755 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH LOW   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Horizontal     |



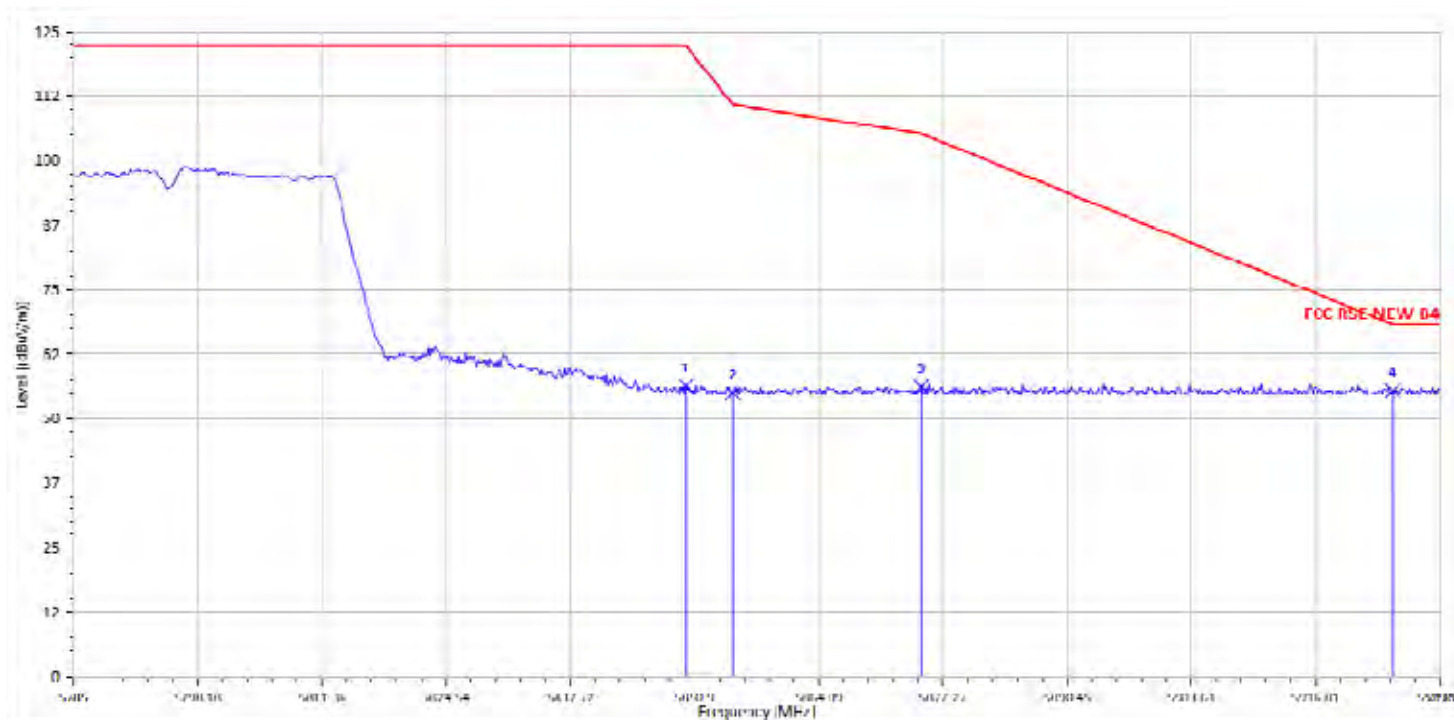
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5650.00      | S               | Peak                         | 54.48                             | 0.63         | 55.11                  | 68.23                  | -13.12       |
| 5700.00      | S               | Peak                         | 54.44                             | 0.56         | 55.00                  | 105.23                 | -50.23       |
| 5720.00      | S               | Peak                         | 54.71                             | 0.66         | 55.37                  | 110.83                 | -55.46       |
| 5725.00      | E               | Peak                         | 55.56                             | 0.69         | 56.24                  | 122.23                 | -65.99       |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n40B4 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5795 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH HIGH  | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Vertical       |



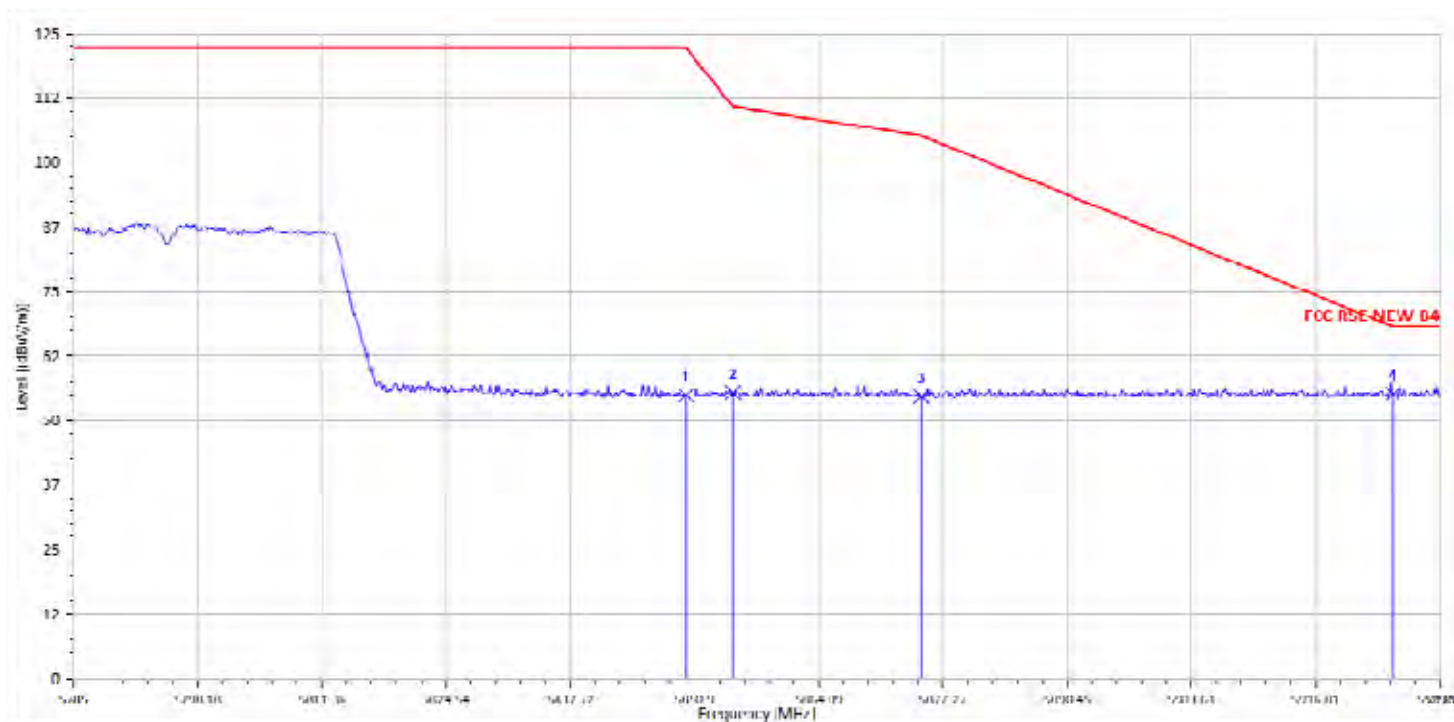
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5850.00      | E               | Peak                         | 55.34                             | 1.01         | 56.35                  | 122.23                 | -65.88       |
| 5855.00      | S               | Peak                         | 53.89                             | 1.01         | 54.90                  | 110.83                 | -55.93       |
| 5875.00      | S               | Peak                         | 55.22                             | 0.99         | 56.21                  | 105.23                 | -49.02       |
| 5925.00      | S               | Peak                         | 54.33                             | 1.04         | 55.37                  | 68.23                  | -12.86       |

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|                         |             |                            |                |
|-------------------------|-------------|----------------------------|----------------|
| Operation Mode :        | 802.11n40B4 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5795 MHz    | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH HIGH  | Test Engineer :            | Enzo           |
| EUT Pol. :              | H           | Measurement Antenna Pol. : | Horizontal     |



| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5850.00      | E               | Peak                         | 53.89                             | 1.01         | 54.90                  | 122.23                 | -67.33       |
| 5855.00      | S               | Peak                         | 54.39                             | 1.01         | 55.40                  | 110.83                 | -55.43       |
| 5875.00      | S               | Peak                         | 53.71                             | 0.99         | 54.70                  | 105.23                 | -50.53       |
| 5925.00      | S               | Peak                         | 54.10                             | 1.04         | 55.14                  | 68.23                  | -13.09       |

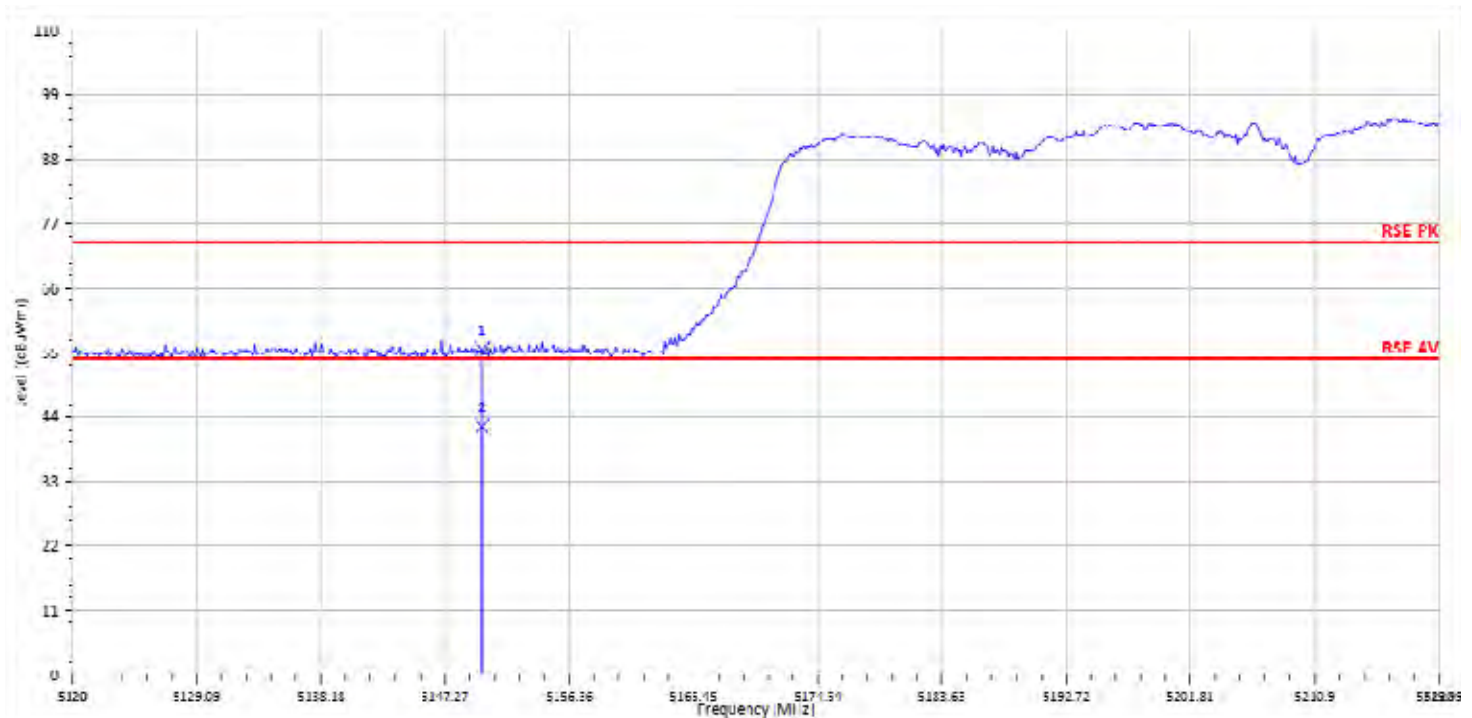
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## 802.11ac80 VHT mode

|                         |              |                            |                |
|-------------------------|--------------|----------------------------|----------------|
| Operation Mode :        | 802.11ac80B1 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5210 MHz     | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH LOW    | Test Engineer :            | Enzo           |
| EUT Pol. :              | H            | Measurement Antenna Pol. : | Vertical       |



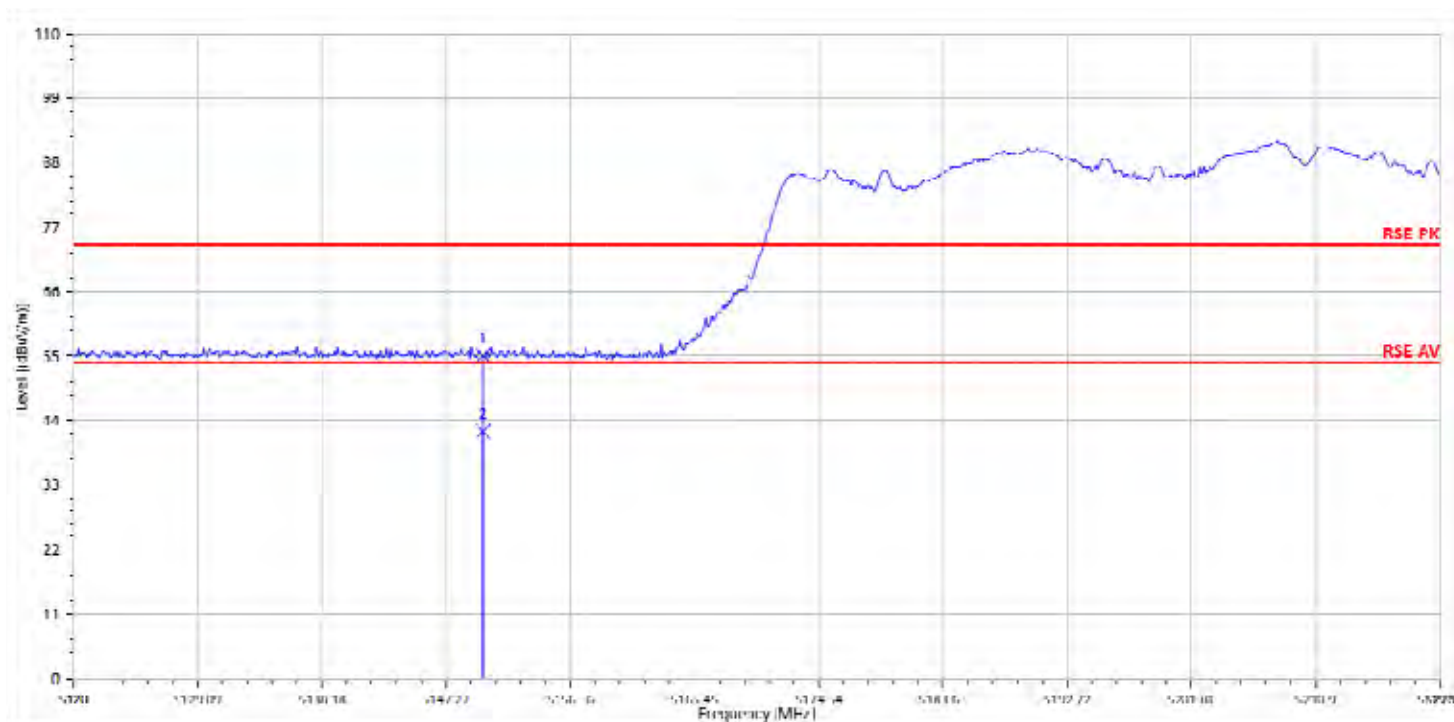
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5150.00      | E               | Peak                         | 55.74                             | -0.17        | 55.57                  | 74                     | -18.43       |
| 5150.00      | E               | Average                      | 42.60                             | -0.17        | 42.43                  | 54                     | -11.57       |

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|                         |              |                            |                |
|-------------------------|--------------|----------------------------|----------------|
| Operation Mode :        | 802.11ac80B1 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5210 MHz     | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH LOW    | Test Engineer :            | Enzo           |
| EUT Pol. :              | H            | Measurement Antenna Pol. : | Horizontal     |



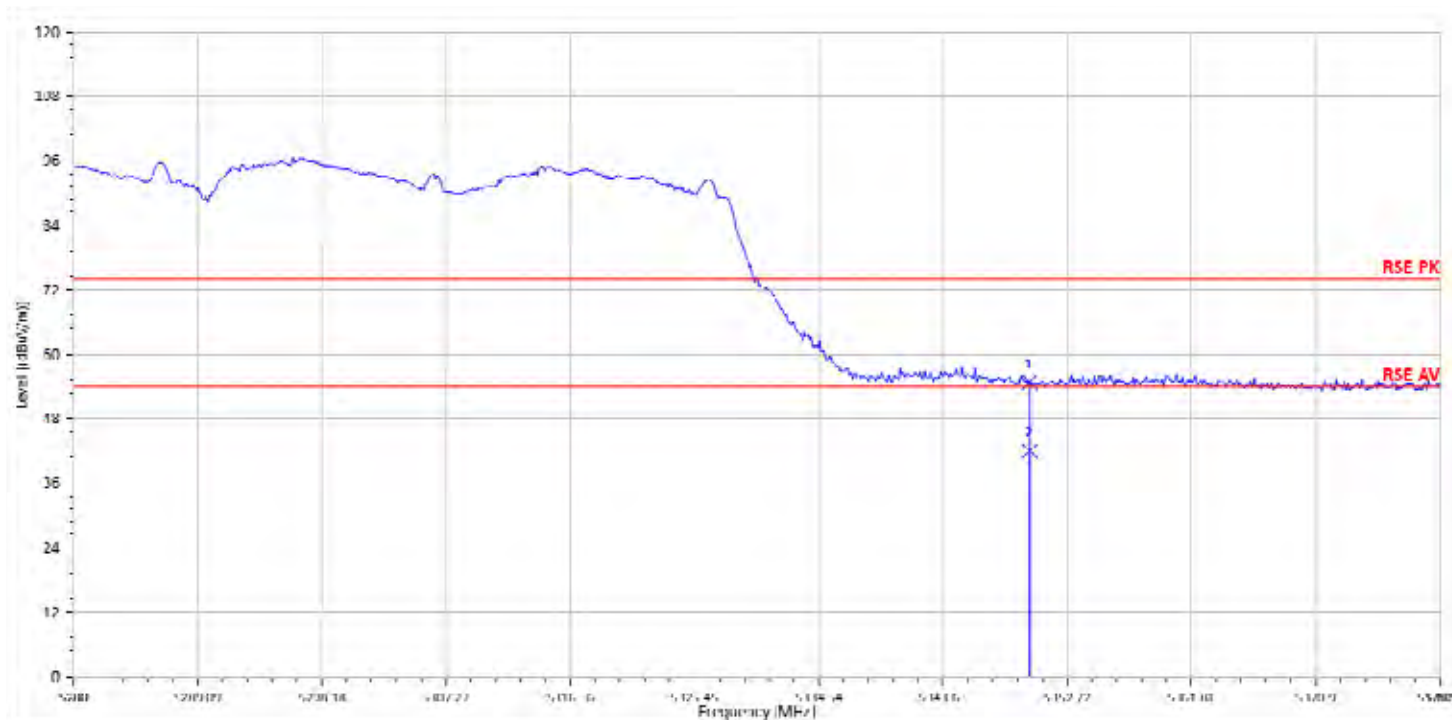
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5150.00      | E               | Peak                         | 55.25                             | -0.17        | 55.08                  | 74                     | -18.92       |
| 5150.00      | E               | Average                      | 42.26                             | -0.17        | 42.09                  | 54                     | -11.91       |

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|                         |              |                            |                |
|-------------------------|--------------|----------------------------|----------------|
| Operation Mode :        | 802.11ac80B2 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5290 MHz     | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH HIGH   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H            | Measurement Antenna Pol. : | Vertical       |



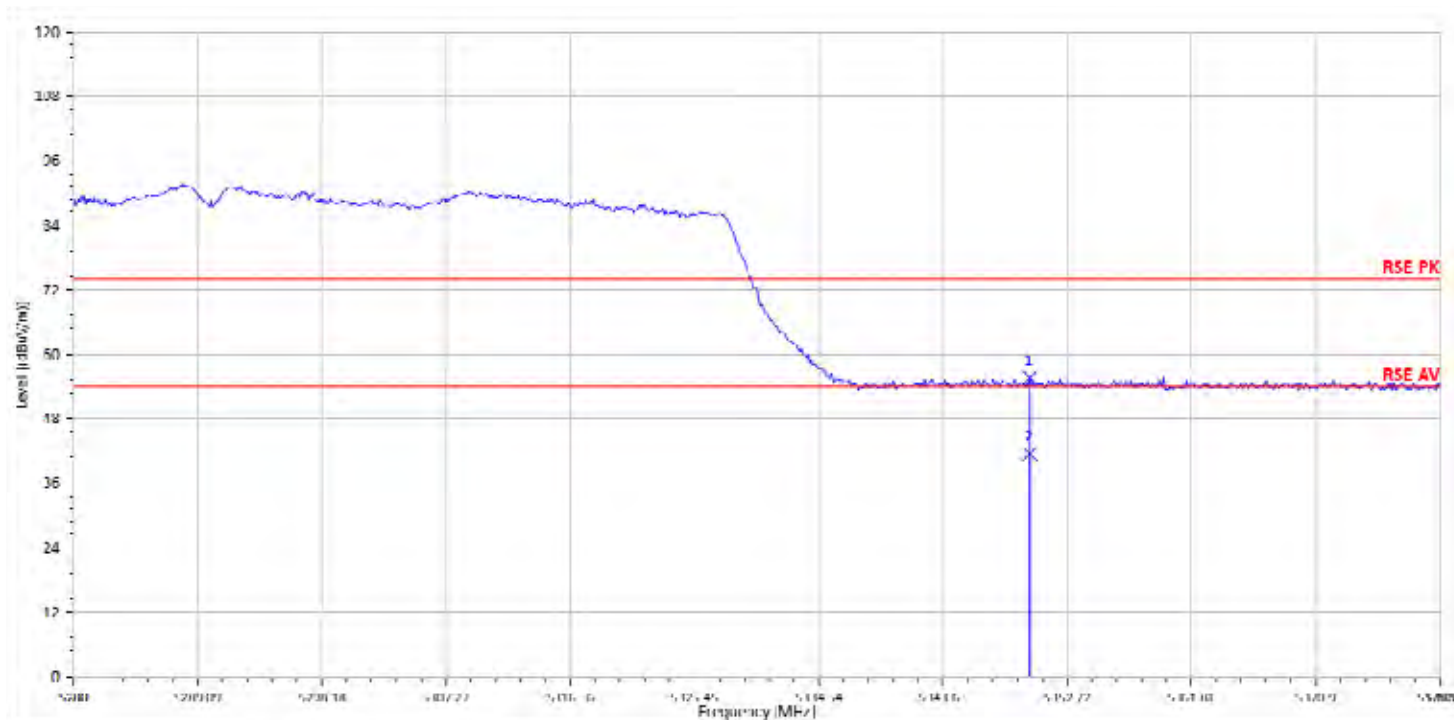
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5350.00      | E               | Peak                         | 54.96                             | -0.15        | 54.80                  | 74                     | -19.20       |
| 5350.00      | E               | Average                      | 42.12                             | -0.15        | 41.97                  | 54                     | -12.03       |

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|                         |              |                            |                |
|-------------------------|--------------|----------------------------|----------------|
| Operation Mode :        | 802.11ac80B2 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5290 MHz     | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH HIGH   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H            | Measurement Antenna Pol. : | Horizontal     |



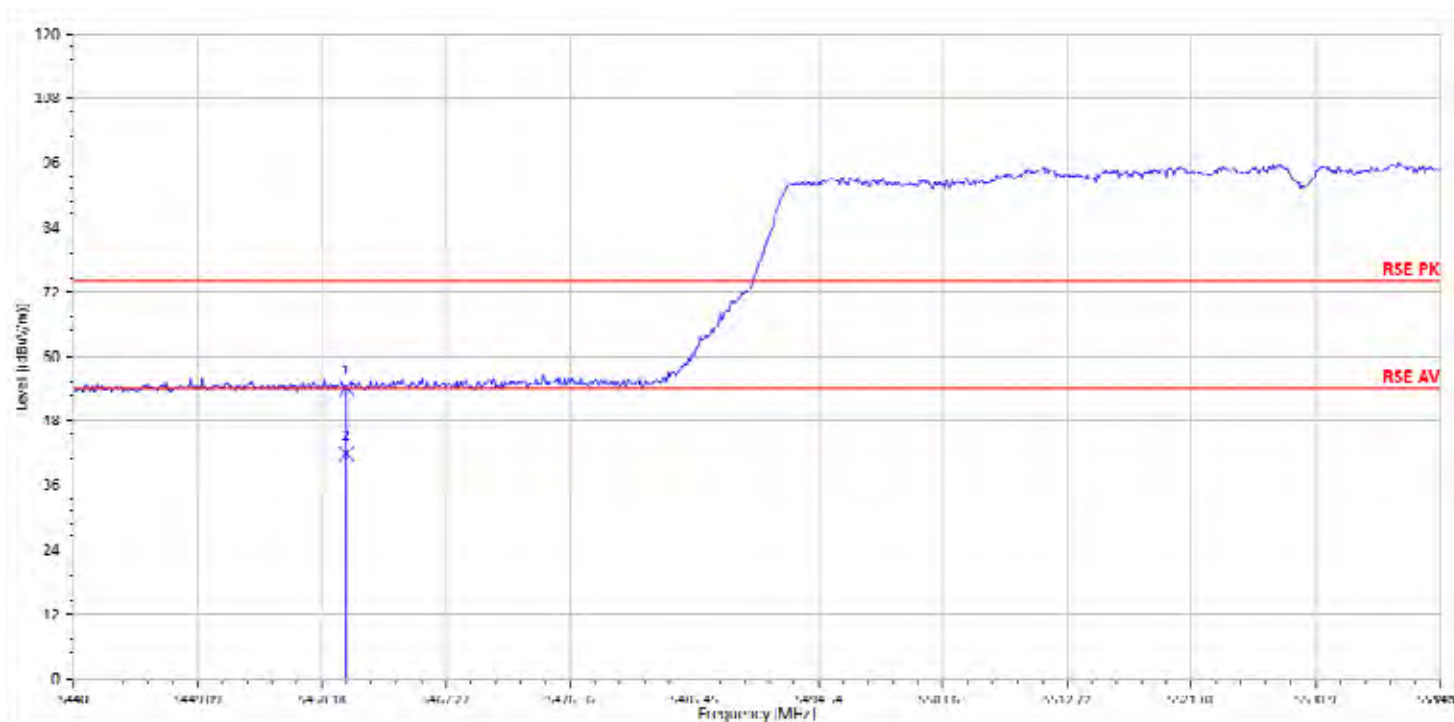
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5350.00      | E               | Peak                         | 55.69                             | -0.15        | 55.54                  | 74                     | -18.46       |
| 5350.00      | E               | Average                      | 41.56                             | -0.15        | 41.40                  | 54                     | -12.60       |

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|                         |              |                            |                |
|-------------------------|--------------|----------------------------|----------------|
| Operation Mode :        | 802.11ac80B3 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5530 MHz     | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH LOW    | Test Engineer :            | Enzo           |
| EUT Pol. :              | H            | Measurement Antenna Pol. : | Vertical       |



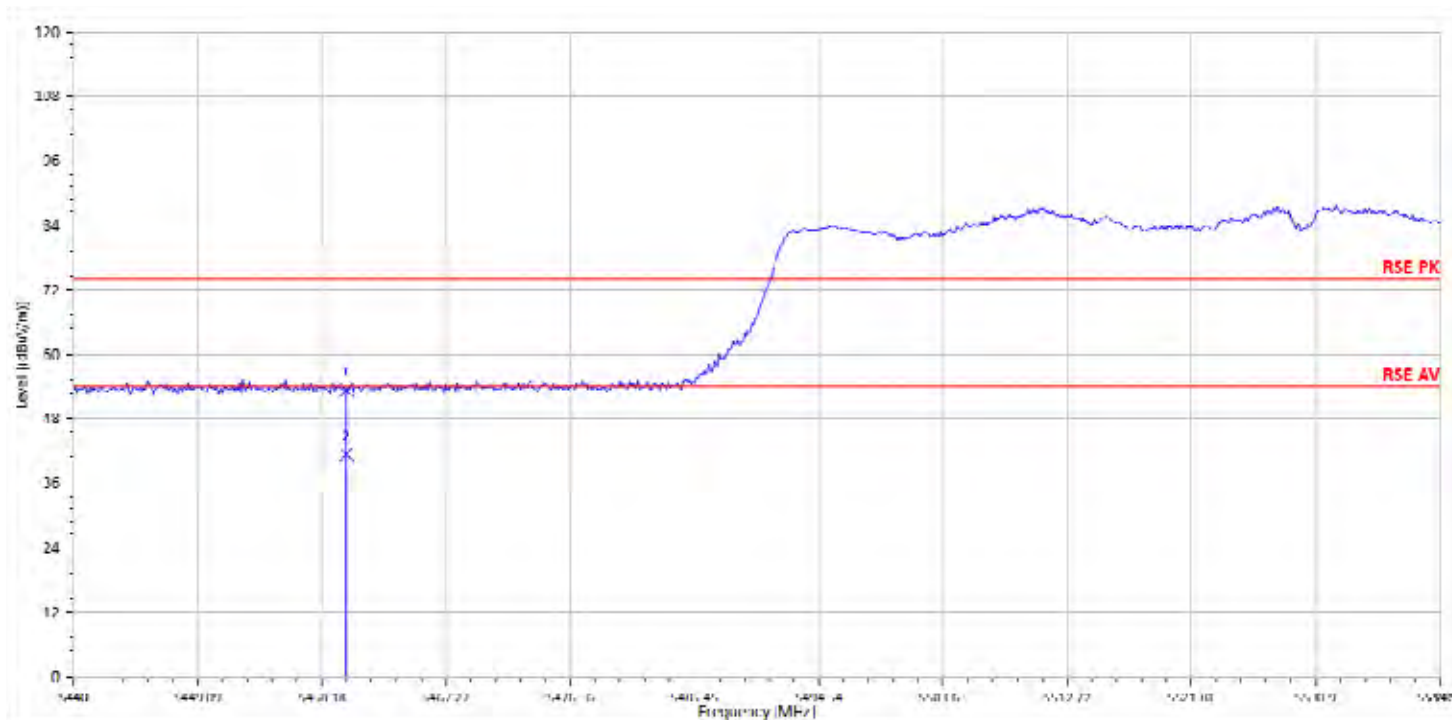
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5460.00      | E               | Peak                         | 54.14                             | 0.06         | 54.20                  | 74                     | -19.80       |
| 5460.00      | E               | Average                      | 41.74                             | 0.06         | 41.80                  | 54                     | -12.20       |

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|                         |              |                            |                |
|-------------------------|--------------|----------------------------|----------------|
| Operation Mode :        | 802.11ac80B3 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5530 MHz     | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH LOW    | Test Engineer :            | Enzo           |
| EUT Pol. :              | H            | Measurement Antenna Pol. : | Horizontal     |



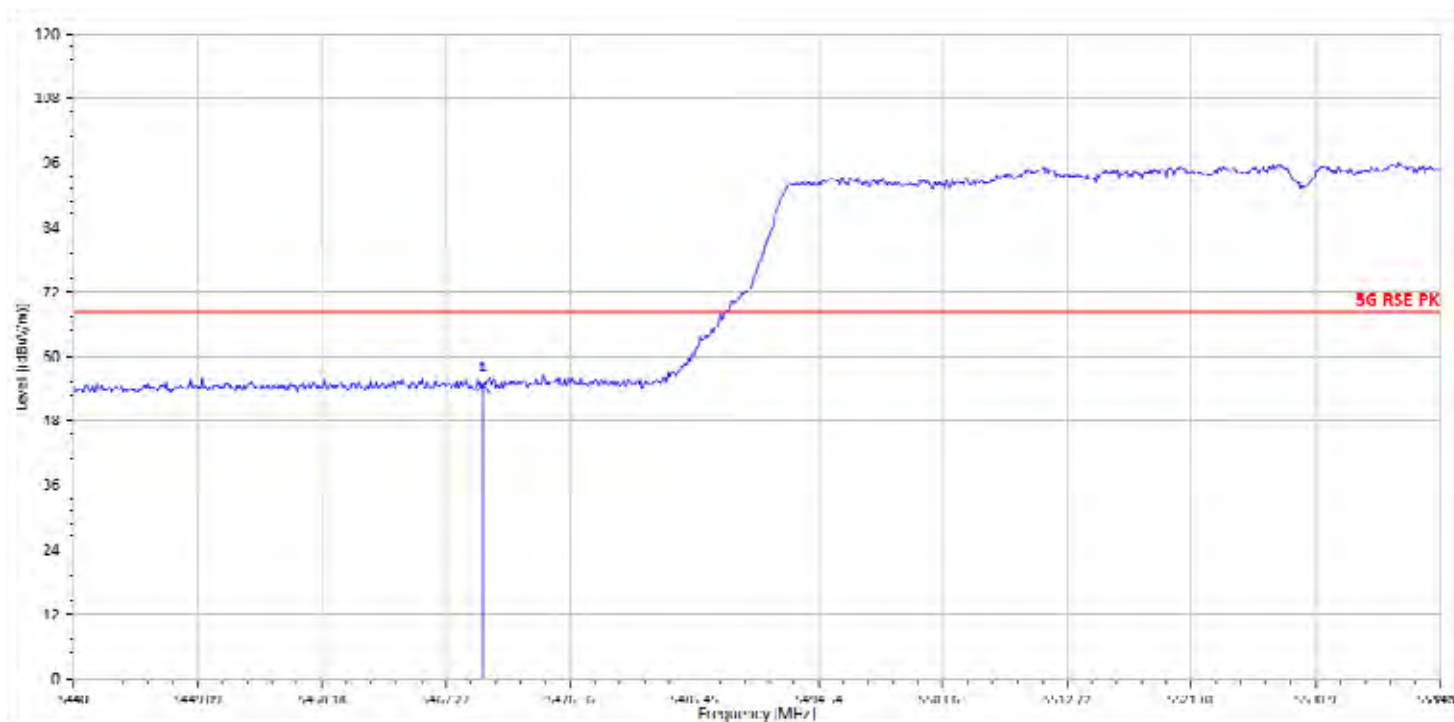
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5460.00      | E               | Peak                         | 53.29                             | 0.06         | 53.35                  | 74                     | -20.65       |
| 5460.00      | E               | Average                      | 41.25                             | 0.06         | 41.31                  | 54                     | -12.69       |

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|                         |               |                            |                |
|-------------------------|---------------|----------------------------|----------------|
| Operation Mode :        | 802.11ac80B3  | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5530 MHz      | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH LOW RSE | Test Engineer :            | Enzo           |
| EUT Pol. :              | H             | Measurement Antenna Pol. : | Vertical       |



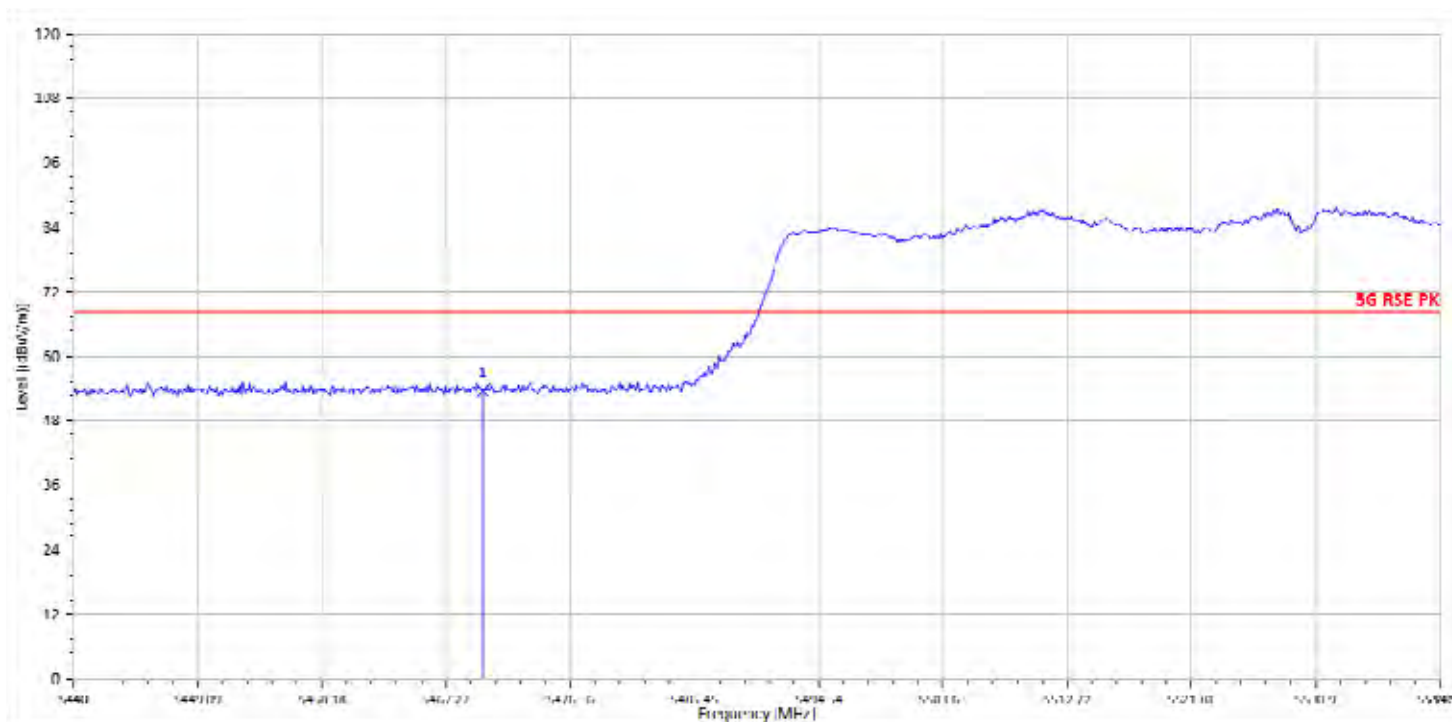
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5470.00      | E               | Peak                         | 54.50                             | 0.08         | 54.58                  | 68.3                   | -13.72       |

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|                         |               |                            |                |
|-------------------------|---------------|----------------------------|----------------|
| Operation Mode :        | 802.11ac80B3  | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5530 MHz      | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH LOW RSE | Test Engineer :            | Enzo           |
| EUT Pol. :              | H             | Measurement Antenna Pol. : | Horizontal     |



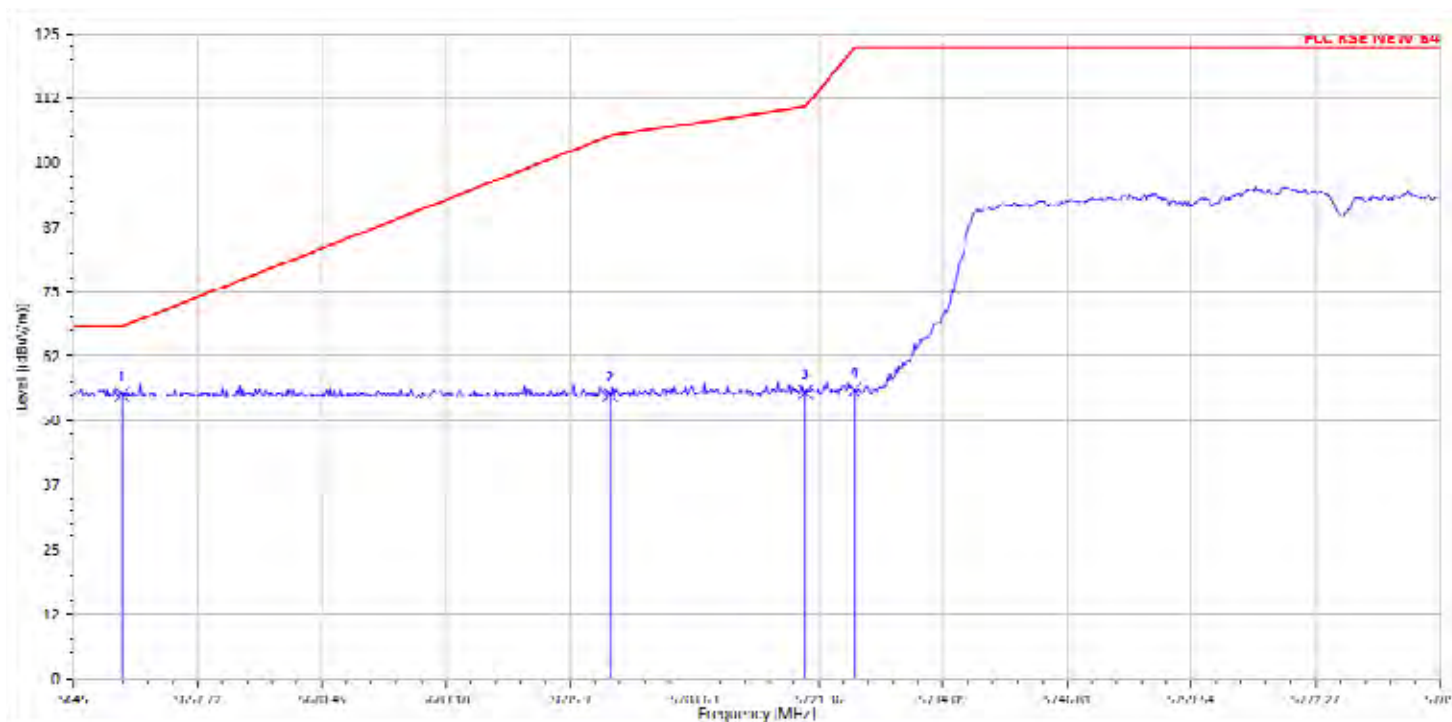
| Freq.   | Note    | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz     | F/H/E/S | PK/QP/AV      | dBμV                   | dB     | dBμV/m    | dBμV/m    | dB     |
| 5470.00 | E       | Peak          | 53.53                  | 0.08   | 53.61     | 68.3      | -14.69 |

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|                         |              |                            |                |
|-------------------------|--------------|----------------------------|----------------|
| Operation Mode :        | 802.11ac80B4 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5775 MHz     | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH LOW    | Test Engineer :            | Enzo           |
| EUT Pol. :              | H            | Measurement Antenna Pol. : | Vertical       |



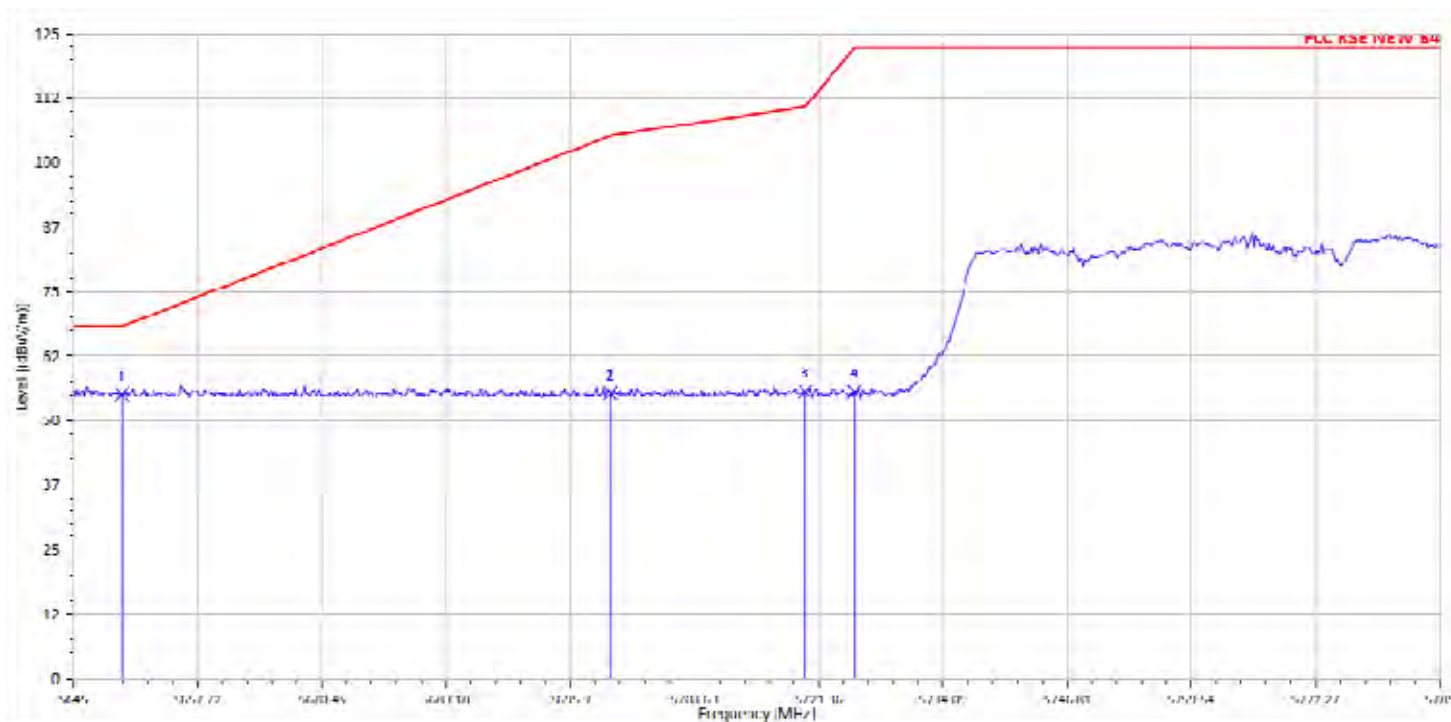
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5650.00      | S               | Peak                         | 54.41                             | 0.63         | 55.04                  | 68.23                  | -13.19       |
| 5700.00      | S               | Peak                         | 54.44                             | 0.56         | 55.00                  | 105.23                 | -50.23       |
| 5720.00      | S               | Peak                         | 54.85                             | 0.66         | 55.51                  | 110.83                 | -55.32       |
| 5725.00      | E               | Peak                         | 55.24                             | 0.69         | 55.93                  | 122.23                 | -66.30       |

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|                         |              |                            |                |
|-------------------------|--------------|----------------------------|----------------|
| Operation Mode :        | 802.11ac80B4 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5775 MHz     | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH LOW    | Test Engineer :            | Enzo           |
| EUT Pol. :              | H            | Measurement Antenna Pol. : | Horizontal     |



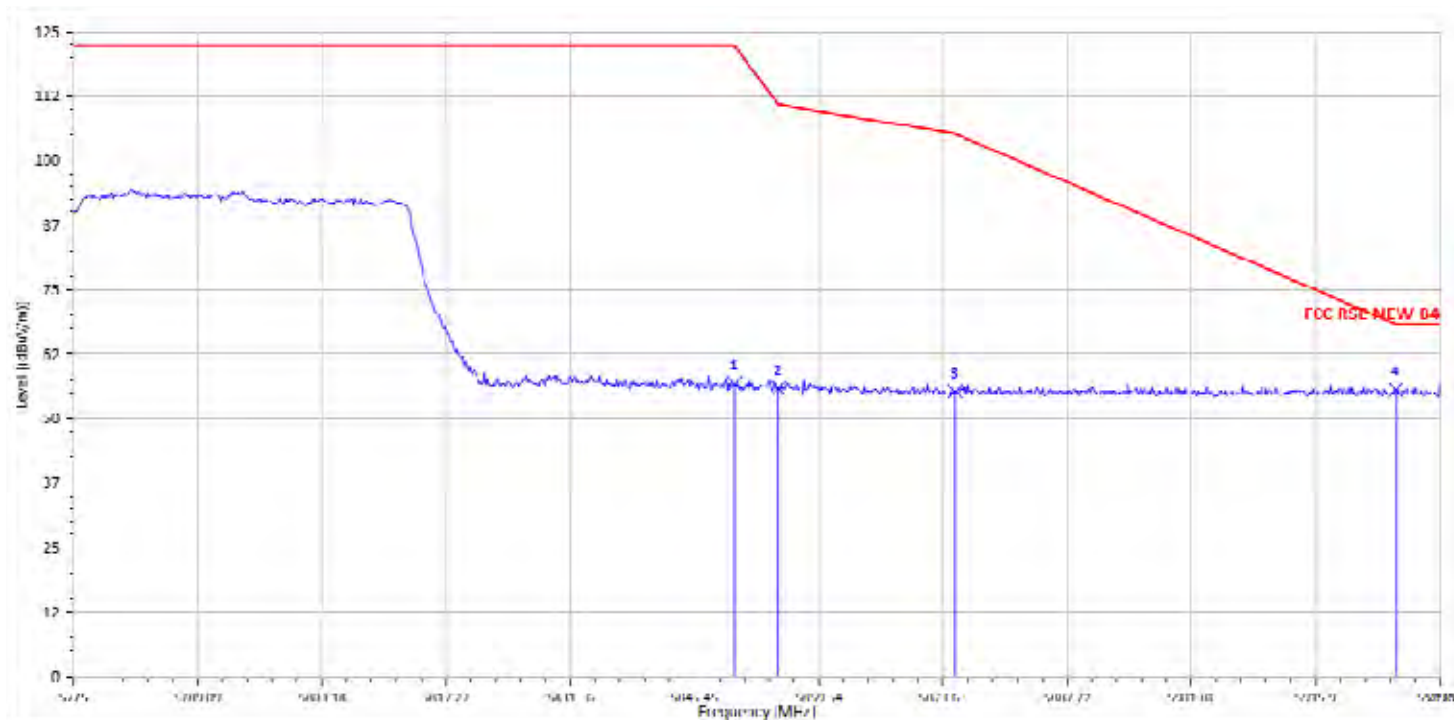
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5650.00      | S               | Peak                         | 54.40                             | 0.63         | 55.03                  | 68.23                  | -13.20       |
| 5700.00      | S               | Peak                         | 54.70                             | 0.56         | 55.26                  | 105.23                 | -49.97       |
| 5720.00      | S               | Peak                         | 54.97                             | 0.66         | 55.63                  | 110.83                 | -55.20       |
| 5725.00      | E               | Peak                         | 54.85                             | 0.69         | 55.54                  | 122.23                 | -66.69       |

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|                         |              |                            |                |
|-------------------------|--------------|----------------------------|----------------|
| Operation Mode :        | 802.11ac80B4 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5775 MHz     | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH HIGH   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H            | Measurement Antenna Pol. : | Vertical       |



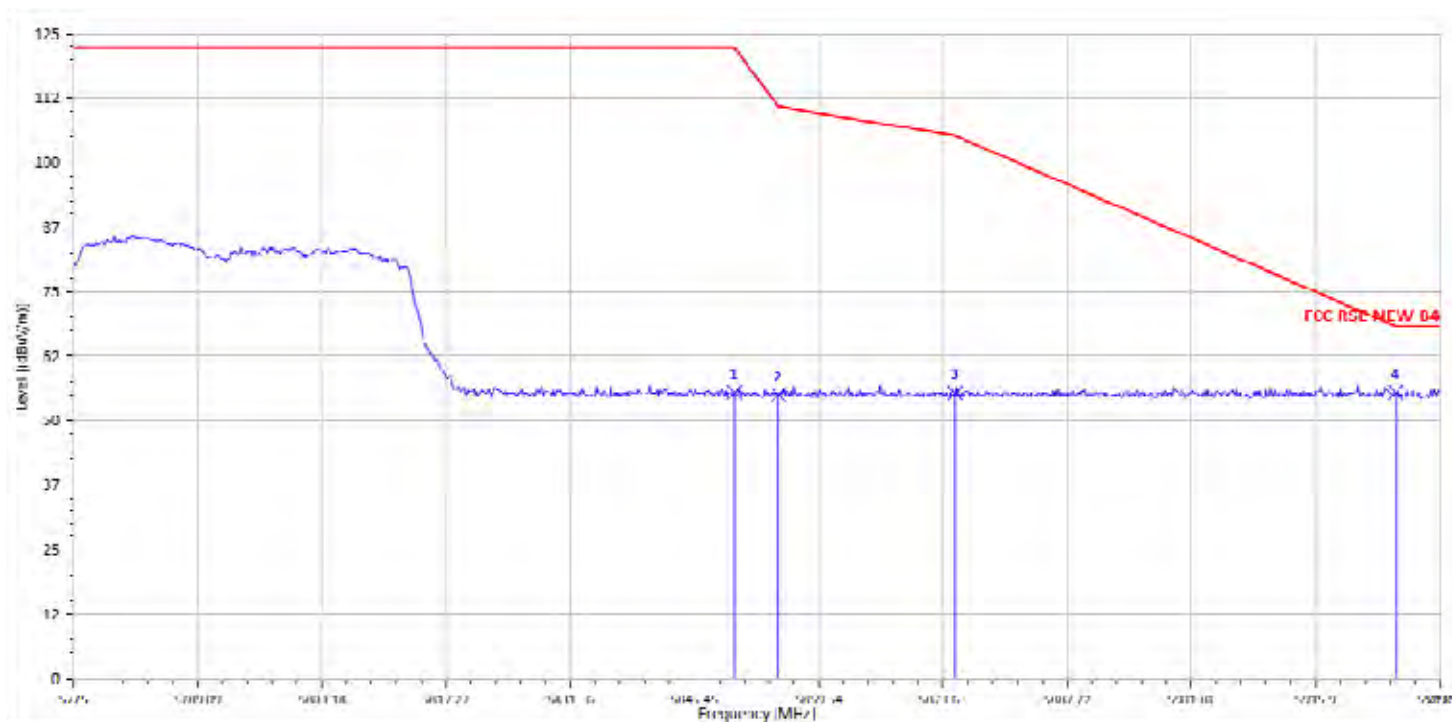
| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5850.00      | E               | Peak                         | 55.73                             | 1.01         | 56.74                  | 122.23                 | -65.49       |
| 5855.00      | S               | Peak                         | 54.94                             | 1.01         | 55.94                  | 110.83                 | -54.89       |
| 5875.00      | S               | Peak                         | 54.26                             | 0.99         | 55.24                  | 105.23                 | -49.99       |
| 5925.00      | S               | Peak                         | 54.53                             | 1.04         | 55.57                  | 68.23                  | -12.66       |

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|                         |              |                            |                |
|-------------------------|--------------|----------------------------|----------------|
| Operation Mode :        | 802.11ac80B4 | Test Date :                | 2017/9/25      |
| Fundamental Frequency : | 5775 MHz     | Temp. / Humi. :            | 22.7deg_C/57RH |
| Operation Band :        | BE CH HIGH   | Test Engineer :            | Enzo           |
| EUT Pol. :              | H            | Measurement Antenna Pol. : | Horizontal     |



| Freq.<br>MHz | Note<br>F/H/E/S | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5850.00      | E               | Peak                         | 54.46                             | 1.01         | 55.47                  | 122.23                 | -66.76       |
| 5855.00      | S               | Peak                         | 53.99                             | 1.01         | 55.00                  | 110.83                 | -55.83       |
| 5875.00      | S               | Peak                         | 54.31                             | 0.99         | 55.30                  | 105.23                 | -49.93       |
| 5925.00      | S               | Peak                         | 54.40                             | 1.04         | 55.44                  | 68.23                  | -12.79       |

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## 12 TRANSMISSION IN THE ABSENCE OF DATA

### 12.1 Standard Applicable

According to §15.407(c)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

### 12.2 Result

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

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## 13 FREQUENCY STABILITY

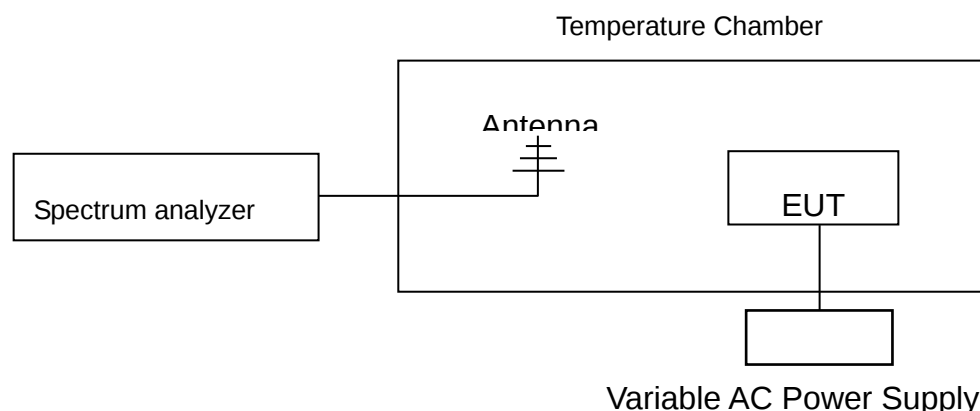
### 13.1 Standard Applicable

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

### 13.2 Measurement Procedure

1. The EUT was placed inside temperature chamber and powered and powered by nominal DC voltage.
2. Set EUT as normal operation.
3. Turn the EUT on and couple its output to spectrum.
4. Turn the EUT off and set the chamber to the highest temperature specified.
5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT and measure the operating frequency.
6. Repeat step with the temperature chamber set to the lowest temperature.

### 13.3 Test SET-UP



### 13.4 Measurement Equipment Used:

| SGS Conducted Room |              |                |               |                  |                 |
|--------------------|--------------|----------------|---------------|------------------|-----------------|
| Name of Equip-ment | Manufacturer | Model          | Serial Number | Calibration Date | Calibration Due |
| Spectrum Analyzer  | KEYSIGHT     | N9010A         | MY51440113    | 06/20/2017       | 06/19/2018      |
| Coaxial Cable 30cm | WOKEN        | 00100A1F1A195C | RF01          | 12/12/2016       | 12/11/2017      |
| DC Block           | PASTERNAK    | PE8210         | RF29          | 12/12/2016       | 12/11/2017      |
| Attenuator         | WOKEN        | 218FS-10       | RF23          | 12/12/2016       | 12/11/2017      |
| DC Power Supply    | Agilent      | E3640A         | MY53140006    | 05/02/2017       | 05/01/2018      |

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### 13.5 Measurement Result

#### Startup:

|                |          |           |            |
|----------------|----------|-----------|------------|
| Operation Mode | 802.11 a | Test Date | 2017.09.19 |
| Temperature    | :23      | Test By   | Anthony    |
| Humidity       | :68 %    |           |            |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|------------------|
| -10        | 4.4V         | 36      | 5180                     | 5,180.12000              | -0.00002317      |
|            |              | 44      | 5220                     | 5,220.12000              | -0.00002299      |
|            |              | 48      | 5240                     | 5,240.12000              | -0.00002290      |
|            |              | 52      | 5260                     | 5,260.12000              | -0.00002281      |
|            |              | 60      | 5300                     | 5,300.12000              | -0.00002264      |
|            |              | 64      | 5320                     | 5,320.12000              | -0.00002256      |
|            |              | 100     | 5500                     | 5,500.12000              | -0.00002182      |
|            |              | 116     | 5580                     | 5,580.12000              | -0.00002151      |
|            |              | 140     | 5700                     | 5,700.12000              | -0.00002105      |
|            |              | 149     | 5745                     | 5,745.12000              | -0.00002089      |
|            |              | 157     | 5785                     | 5,785.12000              | -0.00002074      |
|            |              | 165     | 5825                     | 5,825.12000              | -0.00002060      |
|            | 3.4V         | 36      | 5180                     | 5,180.12000              | -0.00002317      |
|            |              | 44      | 5220                     | 5,220.12000              | -0.00002299      |
|            |              | 48      | 5240                     | 5,240.12000              | -0.00002290      |
|            |              | 52      | 5260                     | 5,260.12000              | -0.00002281      |
|            |              | 60      | 5300                     | 5,300.12000              | -0.00002264      |
|            |              | 64      | 5320                     | 5,320.12000              | -0.00002256      |
|            |              | 100     | 5500                     | 5,500.12000              | -0.00002182      |
|            |              | 116     | 5580                     | 5,580.12000              | -0.00002151      |
|            |              | 140     | 5700                     | 5,700.12000              | -0.00002105      |
|            |              | 149     | 5745                     | 5,745.12000              | -0.00002089      |
|            |              | 157     | 5785                     | 5,785.12000              | -0.00002074      |
|            |              | 165     | 5825                     | 5,825.12000              | -0.00002060      |

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|    |       |     |      |             |             |
|----|-------|-----|------|-------------|-------------|
| 25 | 3.85V | 36  | 5180 | 5,180.12000 | -0.00002317 |
|    |       | 44  | 5220 | 5,220.12000 | -0.00002299 |
|    |       | 48  | 5240 | 5,240.12000 | -0.00002290 |
|    |       | 52  | 5260 | 5,260.12000 | -0.00002281 |
|    |       | 60  | 5300 | 5,300.12000 | -0.00002264 |
|    |       | 64  | 5320 | 5,320.12000 | -0.00002256 |
|    |       | 100 | 5500 | 5,500.12000 | -0.00002182 |
|    |       | 116 | 5580 | 5,580.12000 | -0.00002151 |
|    |       | 140 | 5700 | 5,700.12000 | -0.00002105 |
|    |       | 149 | 5745 | 5,745.12000 | -0.00002089 |
|    |       | 157 | 5785 | 5,785.12000 | -0.00002074 |
|    |       | 165 | 5825 | 5,825.12000 | -0.00002060 |

|    |      |     |      |             |             |
|----|------|-----|------|-------------|-------------|
| 55 | 4.4V | 36  | 5180 | 5,180.12000 | -0.00002317 |
|    |      | 44  | 5220 | 5,220.12000 | -0.00002299 |
|    |      | 48  | 5240 | 5,240.12000 | -0.00002290 |
|    |      | 52  | 5260 | 5,260.12000 | -0.00002281 |
|    |      | 60  | 5300 | 5,300.12000 | -0.00002264 |
|    |      | 64  | 5320 | 5,320.12000 | -0.00002256 |
|    |      | 100 | 5500 | 5,500.12000 | -0.00002182 |
|    |      | 116 | 5580 | 5,580.12000 | -0.00002151 |
|    |      | 140 | 5700 | 5,700.12000 | -0.00002105 |
|    |      | 149 | 5745 | 5,745.12000 | -0.00002089 |
|    |      | 157 | 5785 | 5,785.12000 | -0.00002074 |
|    |      | 165 | 5825 | 5,825.12000 | -0.00002060 |
|    | 3.4V | 36  | 5180 | 5,180.12000 | -0.00002317 |
|    |      | 44  | 5220 | 5,220.12000 | -0.00002299 |
|    |      | 48  | 5240 | 5,240.12000 | -0.00002290 |
|    |      | 52  | 5260 | 5,260.12000 | -0.00002281 |
|    |      | 60  | 5300 | 5,300.12000 | -0.00002264 |
|    |      | 64  | 5320 | 5,320.12000 | -0.00002256 |
|    |      | 100 | 5500 | 5,500.12000 | -0.00002182 |
|    |      | 116 | 5580 | 5,580.12000 | -0.00002151 |
|    |      | 140 | 5700 | 5,700.12000 | -0.00002105 |
|    |      | 149 | 5745 | 5,745.12000 | -0.00002089 |
|    |      | 157 | 5785 | 5,785.12000 | -0.00002074 |
|    |      | 165 | 5825 | 5,825.12000 | -0.00002060 |

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|                |               |           |            |
|----------------|---------------|-----------|------------|
| Operation Mode | 802.11 n_HT40 | Test Date | 2017.09.19 |
| Temperature    | :23           | Test By   | Anthony    |
| Humidity       | :68 %         |           |            |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|------------------|
| -10        | 4.4V         | 38      | 5190                     | 5,190.10000              | -0.00001927      |
|            |              | 46      | 5230                     | 5,230.10000              | -0.00001912      |
|            |              | 54      | 5270                     | 5,270.10000              | -0.00001898      |
|            |              | 62      | 5310                     | 5,310.10000              | -0.00001883      |
|            |              | 102     | 5510                     | 5,510.10000              | -0.00001815      |
|            |              | 110     | 5550                     | 5,550.10000              | -0.00001802      |
|            |              | 134     | 5670                     | 5,670.10000              | -0.00001764      |
|            |              | 151     | 5755                     | 5,755.10000              | -0.00001738      |
|            |              | 159     | 5795                     | 5,795.10000              | -0.00001726      |
|            | 3.4V         | 38      | 5190                     | 5,190.10000              | -0.00001927      |
|            |              | 46      | 5230                     | 5,230.10000              | -0.00001912      |
|            |              | 54      | 5270                     | 5,270.10000              | -0.00001898      |
|            |              | 62      | 5310                     | 5,310.10000              | -0.00001883      |
|            |              | 102     | 5510                     | 5,510.10000              | -0.00001815      |
|            |              | 110     | 5550                     | 5,550.10000              | -0.00001802      |
|            |              | 134     | 5670                     | 5,670.10000              | -0.00001764      |
|            |              | 151     | 5755                     | 5,755.10000              | -0.00001738      |
|            |              | 159     | 5795                     | 5,795.10000              | -0.00001726      |

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|    |       |     |      |             |             |
|----|-------|-----|------|-------------|-------------|
| 25 | 3.85V | 38  | 5190 | 5,190.10000 | -0.00001927 |
|    |       | 46  | 5230 | 5,230.10000 | -0.00001912 |
|    |       | 54  | 5270 | 5,270.10000 | -0.00001898 |
|    |       | 62  | 5310 | 5,310.10000 | -0.00001883 |
|    |       | 102 | 5510 | 5,510.10000 | -0.00001815 |
|    |       | 110 | 5550 | 5,550.10000 | -0.00001802 |
|    |       | 134 | 5670 | 5,670.10000 | -0.00001764 |
|    |       | 151 | 5755 | 5,755.10000 | -0.00001738 |
|    |       | 159 | 5795 | 5,795.10000 | -0.00001726 |
| 55 | 4.4V  | 38  | 5190 | 5,190.10000 | -0.00001927 |
|    |       | 46  | 5230 | 5,230.10000 | -0.00001912 |
|    |       | 54  | 5270 | 5,270.10000 | -0.00001898 |
|    |       | 62  | 5310 | 5,310.10000 | -0.00001883 |
|    |       | 102 | 5510 | 5,510.10000 | -0.00001815 |
|    |       | 110 | 5550 | 5,550.10000 | -0.00001802 |
|    |       | 134 | 5670 | 5,670.10000 | -0.00001764 |
|    |       | 151 | 5755 | 5,755.10000 | -0.00001738 |
|    |       | 159 | 5795 | 5,795.10000 | -0.00001726 |
|    | 3.4V  | 38  | 5190 | 5,190.10000 | -0.00001927 |
|    |       | 46  | 5230 | 5,230.10000 | -0.00001912 |
|    |       | 54  | 5270 | 5,270.10000 | -0.00001898 |
|    |       | 62  | 5310 | 5,310.10000 | -0.00001883 |
|    |       | 102 | 5510 | 5,510.10000 | -0.00001815 |
|    |       | 110 | 5550 | 5,550.10000 | -0.00001802 |
|    |       | 134 | 5670 | 5,670.10000 | -0.00001764 |
|    |       | 151 | 5755 | 5,755.10000 | -0.00001738 |
|    |       | 159 | 5795 | 5,795.10000 | -0.00001726 |

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|                |                 |           |            |
|----------------|-----------------|-----------|------------|
| Operation Mode | 802.11 ac_VHT80 | Test Date | 2017.09.19 |
| Temperature    | 23              | Test By   | Anthony    |
| Humidity       | 68 %            |           |            |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|------------------|
| -10        | 4.4V         | 42      | 5210                     | 5,210.10000              | -0.00001919      |
|            |              | 58      | 5290                     | 5,290.10000              | -0.00001890      |
|            |              | 106     | 5530                     | 5,530.10000              | -0.00001808      |
|            |              | 122     | 5610                     | 5,610.10000              | -0.00001783      |
|            |              | 155     | 5775                     | 5,775.10000              | -0.00001732      |
|            | 3.4V         | 42      | 5210                     | 5,210.10000              | -0.00001919      |
|            |              | 58      | 5290                     | 5,290.10000              | -0.00001890      |
|            |              | 106     | 5530                     | 5,530.10000              | -0.00001808      |
|            |              | 122     | 5610                     | 5,610.10000              | -0.00001783      |
|            |              | 155     | 5775                     | 5,775.10000              | -0.00001732      |
| 25         | 3.85V        | 42      | 5210                     | 5,210.10000              | -0.00001919      |
|            |              | 58      | 5290                     | 5,290.10000              | -0.00001890      |
|            |              | 106     | 5530                     | 5,530.10000              | -0.00001808      |
|            |              | 122     | 5610                     | 5,610.10000              | -0.00001783      |
|            |              | 155     | 5775                     | 5,775.10000              | -0.00001732      |
| 55         | 4.4V         | 42      | 5210                     | 5,210.10000              | -0.00001919      |
|            |              | 58      | 5290                     | 5,290.10000              | -0.00001890      |
|            |              | 106     | 5530                     | 5,530.10000              | -0.00001808      |
|            |              | 122     | 5610                     | 5,610.10000              | -0.00001783      |
|            |              | 155     | 5775                     | 5,775.10000              | -0.00001732      |
|            | 3.4V         | 42      | 5210                     | 5,210.10000              | -0.00001919      |
|            |              | 58      | 5290                     | 5,290.10000              | -0.00001890      |
|            |              | 106     | 5530                     | 5,530.10000              | -0.00001808      |
|            |              | 122     | 5610                     | 5,610.10000              | -0.00001783      |
|            |              | 155     | 5775                     | 5,775.10000              | -0.00001732      |

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## 2 Minutes:

|                |          |           |            |
|----------------|----------|-----------|------------|
| Operation Mode | 802.11 a | Test Date | 2017.09.19 |
| Temperature    | :23      | Test By   | Anthony    |
| Humidity       | :68 %    |           |            |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|------------------|
| -10        | 4.4V         | 36      | 5180                     | 5,180.01910              | -0.00000369      |
|            |              | 44      | 5220                     | 5,220.05079              | -0.00000973      |
|            |              | 48      | 5240                     | 5,240.04619              | -0.00000881      |
|            |              | 52      | 5260                     | 5,260.02668              | -0.00000507      |
|            |              | 60      | 5300                     | 5,300.05451              | -0.00001028      |
|            |              | 64      | 5320                     | 5,320.00961              | -0.00000181      |
|            |              | 100     | 5500                     | 5,500.09811              | -0.00001784      |
|            |              | 116     | 5580                     | 5,580.08240              | -0.00001477      |
|            |              | 140     | 5700                     | 5,700.02215              | -0.00000389      |
|            |              | 149     | 5745                     | 5,745.04616              | -0.00000803      |
|            |              | 157     | 5785                     | 5,785.03823              | -0.00000661      |
|            |              | 165     | 5825                     | 5,825.09698              | -0.00001665      |
|            | 3.4V         | 36      | 5180                     | 5,180.01390              | -0.00000268      |
|            |              | 44      | 5220                     | 5,220.07956              | -0.00001524      |
|            |              | 48      | 5240                     | 5,240.06083              | -0.00001161      |
|            |              | 52      | 5260                     | 5,260.01385              | -0.00000263      |
|            |              | 60      | 5300                     | 5,300.02967              | -0.00000560      |
|            |              | 64      | 5320                     | 5,320.07191              | -0.00001352      |
|            |              | 100     | 5500                     | 5,500.02592              | -0.00000471      |
|            |              | 116     | 5580                     | 5,580.02544              | -0.00000456      |
|            |              | 140     | 5700                     | 5,700.05321              | -0.00000934      |
|            |              | 149     | 5745                     | 5,745.08578              | -0.00001493      |
|            |              | 157     | 5785                     | 5,785.02289              | -0.00000396      |
|            |              | 165     | 5825                     | 5,825.03924              | -0.00000674      |

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|----|-------|-----|------|-------------|-------------|
| 25 | 3.85V | 36  | 5180 | 5,180.01096 | -0.00000212 |
|    |       | 44  | 5220 | 5,220.08526 | -0.00001633 |
|    |       | 48  | 5240 | 5,240.02820 | -0.00000538 |
|    |       | 52  | 5260 | 5,260.09310 | -0.00001770 |
|    |       | 60  | 5300 | 5,300.00557 | -0.00000105 |
|    |       | 64  | 5320 | 5,320.00499 | -0.00000094 |
|    |       | 100 | 5500 | 5,500.02506 | -0.00000456 |
|    |       | 116 | 5580 | 5,580.00790 | -0.00000142 |
|    |       | 140 | 5700 | 5,700.01519 | -0.00000266 |
|    |       | 149 | 5745 | 5,745.04266 | -0.00000743 |
|    |       | 157 | 5785 | 5,785.01148 | -0.00000198 |
|    |       | 165 | 5825 | 5,825.00180 | -0.00000031 |
| 55 | 4.4V  | 36  | 5180 | 5,180.08059 | -0.00001556 |
|    |       | 44  | 5220 | 5,220.00533 | -0.00000102 |
|    |       | 48  | 5240 | 5,240.03139 | -0.00000599 |
|    |       | 52  | 5260 | 5,260.00697 | -0.00000133 |
|    |       | 60  | 5300 | 5,300.08706 | -0.00001643 |
|    |       | 64  | 5320 | 5,320.08226 | -0.00001546 |
|    |       | 100 | 5500 | 5,500.00271 | -0.00000049 |
|    |       | 116 | 5580 | 5,580.02779 | -0.00000498 |
|    |       | 140 | 5700 | 5,700.09869 | -0.00001731 |
|    |       | 149 | 5745 | 5,745.04500 | -0.00000783 |
|    |       | 157 | 5785 | 5,785.07949 | -0.00001374 |
|    |       | 165 | 5825 | 5,825.00937 | -0.00000161 |
|    | 3.4V  | 36  | 5180 | 5,180.06447 | -0.00001245 |
|    |       | 44  | 5220 | 5,220.00744 | -0.00000143 |
|    |       | 48  | 5240 | 5,240.08828 | -0.00001685 |
|    |       | 52  | 5260 | 5,260.04292 | -0.00000816 |
|    |       | 60  | 5300 | 5,300.00204 | -0.00000038 |
|    |       | 64  | 5320 | 5,320.06356 | -0.00001195 |
|    |       | 100 | 5500 | 5,500.01771 | -0.00000322 |
|    |       | 116 | 5580 | 5,580.04940 | -0.00000885 |
|    |       | 140 | 5700 | 5,700.06174 | -0.00001083 |
|    |       | 149 | 5745 | 5,745.05687 | -0.00000990 |
|    |       | 157 | 5785 | 5,785.09465 | -0.00001636 |
|    |       | 165 | 5825 | 5,825.08381 | -0.00001439 |

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|                |               |           |            |
|----------------|---------------|-----------|------------|
| Operation Mode | 802.11 n_HT40 | Test Date | 2017.09.19 |
| Temperature    | :23           | Test By   | Anthony    |
| Humidity       | :68 %         |           |            |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|------------------|
| -10        | 4.4V         | 38      | 5190                     | 5,190.02866              | -0.00000552      |
|            |              | 46      | 5230                     | 5,230.06069              | -0.00001160      |
|            |              | 54      | 5270                     | 5,270.04118              | -0.00000781      |
|            |              | 62      | 5310                     | 5,310.07102              | -0.00001337      |
|            |              | 102     | 5510                     | 5,510.06935              | -0.00001259      |
|            |              | 110     | 5550                     | 5,550.09294              | -0.00001675      |
|            |              | 134     | 5670                     | 5,670.04863              | -0.00000858      |
|            |              | 151     | 5755                     | 5,755.02048              | -0.00000356      |
|            |              | 159     | 5795                     | 5,795.03321              | -0.00000573      |
|            | 3.4V         | 38      | 5190                     | 5,190.05383              | -0.00001037      |
|            |              | 46      | 5230                     | 5,230.02830              | -0.00000541      |
|            |              | 54      | 5270                     | 5,270.00135              | -0.00000026      |
|            |              | 62      | 5310                     | 5,310.03135              | -0.00000590      |
|            |              | 102     | 5510                     | 5,510.05134              | -0.00000932      |
|            |              | 110     | 5550                     | 5,550.01689              | -0.00000304      |
|            |              | 134     | 5670                     | 5,670.06825              | -0.00001204      |
|            |              | 151     | 5755                     | 5,755.04468              | -0.00000776      |
|            |              | 159     | 5795                     | 5,795.04534              | -0.00000782      |
| 25         | 3.85V        | 38      | 5190                     | 5,190.07048              | -0.00001358      |
|            |              | 46      | 5230                     | 5,230.03747              | -0.00000716      |
|            |              | 54      | 5270                     | 5,270.05702              | -0.00001082      |
|            |              | 62      | 5310                     | 5,310.00330              | -0.00000062      |
|            |              | 102     | 5510                     | 5,510.08243              | -0.00001496      |
|            |              | 110     | 5550                     | 5,550.04897              | -0.00000882      |
|            |              | 134     | 5670                     | 5,670.02455              | -0.00000433      |
|            |              | 151     | 5755                     | 5,755.08457              | -0.00001470      |
|            |              | 159     | 5795                     | 5,795.06958              | -0.00001201      |

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|----|------|-----|------|-------------|-------------|
| 55 | 4.4V | 38  | 5190 | 5,190.02473 | -0.00000476 |
|    |      | 46  | 5230 | 5,230.00662 | -0.00000127 |
|    |      | 54  | 5270 | 5,270.08477 | -0.00001609 |
|    |      | 62  | 5310 | 5,310.00497 | -0.00000094 |
|    |      | 102 | 5510 | 5,510.07381 | -0.00001340 |
|    |      | 110 | 5550 | 5,550.04732 | -0.00000853 |
|    |      | 134 | 5670 | 5,670.00602 | -0.00000106 |
|    |      | 151 | 5755 | 5,755.09042 | -0.00001571 |
|    |      | 159 | 5795 | 5,795.05194 | -0.00000896 |
|    | 3.4V | 38  | 5190 | 5,190.04337 | -0.00000836 |
|    |      | 46  | 5230 | 5,230.03921 | -0.00000750 |
|    |      | 54  | 5270 | 5,270.05928 | -0.00001125 |
|    |      | 62  | 5310 | 5,310.05773 | -0.00001087 |
|    |      | 102 | 5510 | 5,510.09679 | -0.00001757 |
|    |      | 110 | 5550 | 5,550.09119 | -0.00001643 |
|    |      | 134 | 5670 | 5,670.09641 | -0.00001700 |
|    |      | 151 | 5755 | 5,755.04574 | -0.00000795 |
|    |      | 159 | 5795 | 5,795.01382 | -0.00000238 |

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|                |                 |           |            |
|----------------|-----------------|-----------|------------|
| Operation Mode | 802.11 ac_VHT80 | Test Date | 2017.09.19 |
| Temperature    | :23             | Test By   | Anthony    |
| Humidity       | :68 %           |           |            |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|------------------|
| -10        | 4.4V         | 42      | 5210                     | 5,209.95777              | 0.00000811       |
|            |              | 58      | 5290                     | 5,289.93211              | 0.00001283       |
|            |              | 106     | 5530                     | 5,529.90888              | 0.00001648       |
|            |              | 122     | 5610                     | 5,609.99501              | 0.00000089       |
|            |              | 155     | 5775                     | 5,774.93314              | 0.00001158       |
|            | 3.4V         | 42      | 5210                     | 5,209.94091              | 0.00001134       |
|            |              | 58      | 5290                     | 5,289.95277              | 0.00000893       |
|            |              | 106     | 5530                     | 5,529.97676              | 0.00000420       |
|            |              | 122     | 5610                     | 5,609.95429              | 0.00000815       |
|            |              | 155     | 5775                     | 5,774.94836              | 0.00000894       |
| 25         | 3.85V        | 42      | 5210                     | 5,209.91218              | 0.00001686       |
|            |              | 58      | 5290                     | 5,289.98640              | 0.00000257       |
|            |              | 106     | 5530                     | 5,529.92809              | 0.00001300       |
|            |              | 122     | 5610                     | 5,609.95119              | 0.00000870       |
|            |              | 155     | 5775                     | 5,774.90975              | 0.00001563       |
| 55         | 4.4V         | 42      | 5210                     | 5,209.92456              | 0.00001448       |
|            |              | 58      | 5290                     | 5,289.98925              | 0.00000203       |
|            |              | 106     | 5530                     | 5,529.90084              | 0.00001793       |
|            |              | 122     | 5610                     | 5,609.96913              | 0.00000550       |
|            |              | 155     | 5775                     | 5,774.92806              | 0.00001246       |
|            | 3.4V         | 42      | 5210                     | 5,209.97892              | 0.00000405       |
|            |              | 58      | 5290                     | 5,289.93852              | 0.00001162       |
|            |              | 106     | 5530                     | 5,529.97316              | 0.00000485       |
|            |              | 122     | 5610                     | 5,609.95998              | 0.00000713       |
|            |              | 155     | 5775                     | 5,774.91557              | 0.00001462       |

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## 5 Minutes:

|                |          |           |            |
|----------------|----------|-----------|------------|
| Operation Mode | 802.11 a | Test Date | 2017.09.19 |
| Temperature    | :23      | Test By   | Anthony    |
| Humidity       | :68 %    |           |            |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|------------------|
| -10        | 4.4V         | 36      | 5180                     | 5,180.01228              | -0.00000237      |
|            |              | 44      | 5220                     | 5,220.09542              | -0.00001828      |
|            |              | 48      | 5240                     | 5,240.00575              | -0.00000110      |
|            |              | 52      | 5260                     | 5,260.00697              | -0.00000133      |
|            |              | 60      | 5300                     | 5,300.09440              | -0.00001781      |
|            |              | 64      | 5320                     | 5,320.00420              | -0.00000079      |
|            |              | 100     | 5500                     | 5,500.01116              | -0.00000203      |
|            |              | 116     | 5580                     | 5,580.06444              | -0.00001155      |
|            |              | 140     | 5700                     | 5,700.09407              | -0.00001650      |
|            |              | 149     | 5745                     | 5,745.02056              | -0.00000358      |
|            |              | 157     | 5785                     | 5,785.00748              | -0.00000129      |
|            |              | 165     | 5825                     | 5,825.04802              | -0.00000824      |
|            | 3.4V         | 36      | 5180                     | 5,180.03590              | -0.00000693      |
|            |              | 44      | 5220                     | 5,220.01699              | -0.00000325      |
|            |              | 48      | 5240                     | 5,240.07673              | -0.00001464      |
|            |              | 52      | 5260                     | 5,260.01212              | -0.00000230      |
|            |              | 60      | 5300                     | 5,300.01507              | -0.00000284      |
|            |              | 64      | 5320                     | 5,320.01909              | -0.00000359      |
|            |              | 100     | 5500                     | 5,500.07002              | -0.00001273      |
|            |              | 116     | 5580                     | 5,580.08092              | -0.00001450      |
|            |              | 140     | 5700                     | 5,700.09490              | -0.00001665      |
|            |              | 149     | 5745                     | 5,745.05222              | -0.00000909      |
|            |              | 157     | 5785                     | 5,785.05682              | -0.00000982      |
|            |              | 165     | 5825                     | 5,825.03104              | -0.00000533      |

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|----|-------|-----|------|-------------|-------------|
| 25 | 3.85V | 36  | 5180 | 5,180.03382 | -0.00000653 |
|    |       | 44  | 5220 | 5,220.00184 | -0.00000035 |
|    |       | 48  | 5240 | 5,240.09101 | -0.00001737 |
|    |       | 52  | 5260 | 5,260.00941 | -0.00000179 |
|    |       | 60  | 5300 | 5,300.07057 | -0.00001332 |
|    |       | 64  | 5320 | 5,320.08889 | -0.00001671 |
|    |       | 100 | 5500 | 5,500.00469 | -0.00000085 |
|    |       | 116 | 5580 | 5,580.02615 | -0.00000469 |
|    |       | 140 | 5700 | 5,700.07166 | -0.00001257 |
|    |       | 149 | 5745 | 5,745.06462 | -0.00001125 |
|    |       | 157 | 5785 | 5,785.08834 | -0.00001527 |
|    |       | 165 | 5825 | 5,825.09631 | -0.00001653 |
| 55 | 4.4V  | 36  | 5180 | 5,180.07230 | -0.00001396 |
|    |       | 44  | 5220 | 5,220.09148 | -0.00001752 |
|    |       | 48  | 5240 | 5,240.01866 | -0.00000356 |
|    |       | 52  | 5260 | 5,260.04431 | -0.00000842 |
|    |       | 60  | 5300 | 5,300.07117 | -0.00001343 |
|    |       | 64  | 5320 | 5,320.04396 | -0.00000826 |
|    |       | 100 | 5500 | 5,500.01536 | -0.00000279 |
|    |       | 116 | 5580 | 5,580.06487 | -0.00001163 |
|    |       | 140 | 5700 | 5,700.08598 | -0.00001508 |
|    |       | 149 | 5745 | 5,745.07422 | -0.00001292 |
|    |       | 157 | 5785 | 5,785.08498 | -0.00001469 |
|    |       | 165 | 5825 | 5,825.09320 | -0.00001600 |
|    | 3.4V  | 36  | 5180 | 5,180.09094 | -0.00001756 |
|    |       | 44  | 5220 | 5,220.04181 | -0.00000801 |
|    |       | 48  | 5240 | 5,240.04015 | -0.00000766 |
|    |       | 52  | 5260 | 5,260.08345 | -0.00001587 |
|    |       | 60  | 5300 | 5,300.04133 | -0.00000780 |
|    |       | 64  | 5320 | 5,320.02042 | -0.00000384 |
|    |       | 100 | 5500 | 5,500.05958 | -0.00001083 |
|    |       | 116 | 5580 | 5,580.06273 | -0.00001124 |
|    |       | 140 | 5700 | 5,700.07009 | -0.00001230 |
|    |       | 149 | 5745 | 5,745.01491 | -0.00000260 |
|    |       | 157 | 5785 | 5,785.04106 | -0.00000710 |
|    |       | 165 | 5825 | 5,825.00049 | -0.00000008 |

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|                |               |           |            |
|----------------|---------------|-----------|------------|
| Operation Mode | 802.11 n_HT40 | Test Date | 2017.09.19 |
| Temperature    | :23           | Test By   | Anthony    |
| Humidity       | :68 %         |           |            |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|------------------|
| -10        | 4.4V         | 38      | 5190                     | 5,190.09642              | -0.00001858      |
|            |              | 46      | 5230                     | 5,230.09172              | -0.00001754      |
|            |              | 54      | 5270                     | 5,270.02838              | -0.00000539      |
|            |              | 62      | 5310                     | 5,310.02048              | -0.00000386      |
|            |              | 102     | 5510                     | 5,510.01216              | -0.00000221      |
|            |              | 110     | 5550                     | 5,550.02965              | -0.00000534      |
|            |              | 134     | 5670                     | 5,670.03406              | -0.00000601      |
|            |              | 151     | 5755                     | 5,755.02715              | -0.00000472      |
|            |              | 159     | 5795                     | 5,795.03840              | -0.00000663      |
|            | 3.4V         | 38      | 5190                     | 5,190.01460              | -0.00000281      |
|            |              | 46      | 5230                     | 5,230.09948              | -0.00001902      |
|            |              | 54      | 5270                     | 5,270.09350              | -0.00001774      |
|            |              | 62      | 5310                     | 5,310.06595              | -0.00001242      |
|            |              | 102     | 5510                     | 5,510.09327              | -0.00001693      |
|            |              | 110     | 5550                     | 5,550.09350              | -0.00001685      |
|            |              | 134     | 5670                     | 5,670.03611              | -0.00000637      |
|            |              | 151     | 5755                     | 5,755.05072              | -0.00000881      |
|            |              | 159     | 5795                     | 5,795.09295              | -0.00001604      |
| 25         | 3.85V        | 38      | 5190                     | 5,190.05577              | -0.00001075      |
|            |              | 46      | 5230                     | 5,230.05098              | -0.00000975      |
|            |              | 54      | 5270                     | 5,270.03740              | -0.00000710      |
|            |              | 62      | 5310                     | 5,310.08412              | -0.00001584      |
|            |              | 102     | 5510                     | 5,510.01111              | -0.00000202      |
|            |              | 110     | 5550                     | 5,550.03014              | -0.00000543      |
|            |              | 134     | 5670                     | 5,670.01840              | -0.00000325      |
|            |              | 151     | 5755                     | 5,755.06243              | -0.00001085      |
|            |              | 159     | 5795                     | 5,795.01015              | -0.00000175      |

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|----|------|-----|------|-------------|-------------|
| 55 | 4.4V | 38  | 5190 | 5,190.03958 | -0.00000763 |
|    |      | 46  | 5230 | 5,230.06316 | -0.00001208 |
|    |      | 54  | 5270 | 5,270.06714 | -0.00001274 |
|    |      | 62  | 5310 | 5,310.01903 | -0.00000358 |
|    |      | 102 | 5510 | 5,510.06345 | -0.00001152 |
|    |      | 110 | 5550 | 5,550.06592 | -0.00001188 |
|    |      | 134 | 5670 | 5,670.09378 | -0.00001654 |
|    |      | 151 | 5755 | 5,755.07261 | -0.00001262 |
|    |      | 159 | 5795 | 5,795.00147 | -0.00000025 |
|    | 3.4V | 38  | 5190 | 5,190.08619 | -0.00001661 |
|    |      | 46  | 5230 | 5,230.03698 | -0.00000707 |
|    |      | 54  | 5270 | 5,270.07257 | -0.00001377 |
|    |      | 62  | 5310 | 5,310.01063 | -0.00000200 |
|    |      | 102 | 5510 | 5,510.02749 | -0.00000499 |
|    |      | 110 | 5550 | 5,550.07599 | -0.00001369 |
|    |      | 134 | 5670 | 5,670.01013 | -0.00000179 |
|    |      | 151 | 5755 | 5,755.02423 | -0.00000421 |
|    |      | 159 | 5795 | 5,795.01648 | -0.00000284 |

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|                |                 |           |            |
|----------------|-----------------|-----------|------------|
| Operation Mode | 802.11 ac_VHT80 | Test Date | 2017.09.19 |
| Temperature    | :23             | Test By   | Anthony    |
| Humidity       | :68 %           |           |            |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|------------------|
| -10        | 4.4V         | 42      | 5210                     | 5,209.99139              | 0.00000165       |
|            |              | 58      | 5290                     | 5,289.94742              | 0.00000994       |
|            |              | 106     | 5530                     | 5,529.94537              | 0.00000988       |
|            |              | 122     | 5610                     | 5,609.93985              | 0.00001072       |
|            |              | 155     | 5775                     | 5,774.93599              | 0.00001108       |
|            | 3.4V         | 42      | 5210                     | 5,209.98524              | 0.00000283       |
|            |              | 58      | 5290                     | 5,289.93575              | 0.00001215       |
|            |              | 106     | 5530                     | 5,529.92266              | 0.00001399       |
|            |              | 122     | 5610                     | 5,609.91742              | 0.00001472       |
|            |              | 155     | 5775                     | 5,774.94539              | 0.00000946       |
| 25         | 3.85V        | 42      | 5210                     | 5,209.95039              | 0.00000952       |
|            |              | 58      | 5290                     | 5,289.90677              | 0.00001762       |
|            |              | 106     | 5530                     | 5,529.91383              | 0.00001558       |
|            |              | 122     | 5610                     | 5,609.97439              | 0.00000457       |
|            |              | 155     | 5775                     | 5,774.93212              | 0.00001175       |
| 55         | 4.4V         | 42      | 5210                     | 5,209.97640              | 0.00000453       |
|            |              | 58      | 5290                     | 5,289.94519              | 0.00001036       |
|            |              | 106     | 5530                     | 5,529.91481              | 0.00001541       |
|            |              | 122     | 5610                     | 5,609.97913              | 0.00000372       |
|            |              | 155     | 5775                     | 5,774.93188              | 0.00001180       |
|            | 3.4V         | 42      | 5210                     | 5,209.97645              | 0.00000452       |
|            |              | 58      | 5290                     | 5,289.91033              | 0.00001695       |
|            |              | 106     | 5530                     | 5,529.93566              | 0.00001163       |
|            |              | 122     | 5610                     | 5,609.93991              | 0.00001071       |
|            |              | 155     | 5775                     | 5,774.97749              | 0.00000390       |

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## 10 Minutes:

|                |          |           |            |
|----------------|----------|-----------|------------|
| Operation Mode | 802.11 a | Test Date | 2017.09.19 |
| Temperature    | :23      | Test By   | Anthony    |
| Humidity       | :68 %    |           |            |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|------------------|
| -10        | 4.4V         | 36      | 5180                     | 5,180.08733              | -0.00001686      |
|            |              | 44      | 5220                     | 5,220.02643              | -0.00000506      |
|            |              | 48      | 5240                     | 5,240.04098              | -0.00000782      |
|            |              | 52      | 5260                     | 5,260.09061              | -0.00001723      |
|            |              | 60      | 5300                     | 5,300.04045              | -0.00000763      |
|            |              | 64      | 5320                     | 5,320.00083              | -0.00000016      |
|            |              | 100     | 5500                     | 5,500.02262              | -0.00000411      |
|            |              | 116     | 5580                     | 5,580.01780              | -0.00000319      |
|            |              | 140     | 5700                     | 5,700.06088              | -0.00001068      |
|            |              | 149     | 5745                     | 5,745.09315              | -0.00001621      |
|            |              | 157     | 5785                     | 5,785.04507              | -0.00000779      |
|            |              | 165     | 5825                     | 5,825.09145              | -0.00001570      |
|            | 3.4V         | 36      | 5180                     | 5,180.00285              | -0.00000055      |
|            |              | 44      | 5220                     | 5,220.09993              | -0.00001914      |
|            |              | 48      | 5240                     | 5,240.09386              | -0.00001791      |
|            |              | 52      | 5260                     | 5,260.06078              | -0.00001156      |
|            |              | 60      | 5300                     | 5,300.08840              | -0.00001668      |
|            |              | 64      | 5320                     | 5,320.04659              | -0.00000876      |
|            |              | 100     | 5500                     | 5,500.03713              | -0.00000675      |
|            |              | 116     | 5580                     | 5,580.03145              | -0.00000564      |
|            |              | 140     | 5700                     | 5,700.06376              | -0.00001119      |
|            |              | 149     | 5745                     | 5,745.00772              | -0.00000134      |
|            |              | 157     | 5785                     | 5,785.08032              | -0.00001388      |
|            |              | 165     | 5825                     | 5,825.07400              | -0.00001270      |

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|----|-------|-----|------|-------------|-------------|
| 25 | 3.85V | 36  | 5180 | 5,180.00411 | -0.00000079 |
|    |       | 44  | 5220 | 5,220.02593 | -0.00000497 |
|    |       | 48  | 5240 | 5,240.06220 | -0.00001187 |
|    |       | 52  | 5260 | 5,260.03550 | -0.00000675 |
|    |       | 60  | 5300 | 5,300.02366 | -0.00000446 |
|    |       | 64  | 5320 | 5,320.02104 | -0.00000395 |
|    |       | 100 | 5500 | 5,500.01249 | -0.00000227 |
|    |       | 116 | 5580 | 5,580.01437 | -0.00000258 |
|    |       | 140 | 5700 | 5,700.03022 | -0.00000530 |
|    |       | 149 | 5745 | 5,745.01407 | -0.00000245 |
|    |       | 157 | 5785 | 5,785.06619 | -0.00001144 |
|    |       | 165 | 5825 | 5,825.03002 | -0.00000515 |
| 55 | 4.4V  | 36  | 5180 | 5,180.06898 | -0.00001332 |
|    |       | 44  | 5220 | 5,220.07988 | -0.00001530 |
|    |       | 48  | 5240 | 5,240.05473 | -0.00001044 |
|    |       | 52  | 5260 | 5,260.06080 | -0.00001156 |
|    |       | 60  | 5300 | 5,300.07495 | -0.00001414 |
|    |       | 64  | 5320 | 5,320.01401 | -0.00000263 |
|    |       | 100 | 5500 | 5,500.02637 | -0.00000479 |
|    |       | 116 | 5580 | 5,580.02502 | -0.00000448 |
|    |       | 140 | 5700 | 5,700.03301 | -0.00000579 |
|    |       | 149 | 5745 | 5,745.02938 | -0.00000511 |
|    |       | 157 | 5785 | 5,785.06574 | -0.00001136 |
|    |       | 165 | 5825 | 5,825.07112 | -0.00001221 |
|    | 3.4V  | 36  | 5180 | 5,180.01984 | -0.00000383 |
|    |       | 44  | 5220 | 5,220.07739 | -0.00001483 |
|    |       | 48  | 5240 | 5,240.07453 | -0.00001422 |
|    |       | 52  | 5260 | 5,260.00947 | -0.00000180 |
|    |       | 60  | 5300 | 5,300.07770 | -0.00001466 |
|    |       | 64  | 5320 | 5,320.03298 | -0.00000620 |
|    |       | 100 | 5500 | 5,500.08155 | -0.00001483 |
|    |       | 116 | 5580 | 5,580.07788 | -0.00001396 |
|    |       | 140 | 5700 | 5,700.02295 | -0.00000403 |
|    |       | 149 | 5745 | 5,745.09755 | -0.00001698 |
|    |       | 157 | 5785 | 5,785.07968 | -0.00001377 |
|    |       | 165 | 5825 | 5,825.06963 | -0.00001195 |

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|                |               |           |            |
|----------------|---------------|-----------|------------|
| Operation Mode | 802.11 n_HT40 | Test Date | 2017.09.19 |
| Temperature    | :23           | Test By   | Anthony    |
| Humidity       | :68 %         |           |            |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|------------------|
| -10        | 4.4V         | 38      | 5190                     | 5,190.09468              | -0.00001824      |
|            |              | 46      | 5230                     | 5,230.04634              | -0.00000886      |
|            |              | 54      | 5270                     | 5,270.06191              | -0.00001175      |
|            |              | 62      | 5310                     | 5,310.03620              | -0.00000682      |
|            |              | 102     | 5510                     | 5,510.06029              | -0.00001094      |
|            |              | 110     | 5550                     | 5,550.08972              | -0.00001617      |
|            |              | 134     | 5670                     | 5,670.05129              | -0.00000905      |
|            |              | 151     | 5755                     | 5,755.08231              | -0.00001430      |
|            |              | 159     | 5795                     | 5,795.09406              | -0.00001623      |
|            | 3.4V         | 38      | 5190                     | 5,190.09427              | -0.00001816      |
|            |              | 46      | 5230                     | 5,230.01348              | -0.00000258      |
|            |              | 54      | 5270                     | 5,270.05884              | -0.00001117      |
|            |              | 62      | 5310                     | 5,310.06995              | -0.00001317      |
|            |              | 102     | 5510                     | 5,510.05929              | -0.00001076      |
|            |              | 110     | 5550                     | 5,550.04168              | -0.00000751      |
|            |              | 134     | 5670                     | 5,670.01106              | -0.00000195      |
|            |              | 151     | 5755                     | 5,755.06187              | -0.00001075      |
|            |              | 159     | 5795                     | 5,795.02500              | -0.00000431      |
| 25         | 3.85V        | 38      | 5190                     | 5,190.02489              | -0.00000480      |
|            |              | 46      | 5230                     | 5,230.07524              | -0.00001439      |
|            |              | 54      | 5270                     | 5,270.02611              | -0.00000495      |
|            |              | 62      | 5310                     | 5,310.06886              | -0.00001297      |
|            |              | 102     | 5510                     | 5,510.02989              | -0.00000542      |
|            |              | 110     | 5550                     | 5,550.05177              | -0.00000933      |
|            |              | 134     | 5670                     | 5,670.01830              | -0.00000323      |
|            |              | 151     | 5755                     | 5,755.05799              | -0.00001008      |
|            |              | 159     | 5795                     | 5,795.02487              | -0.00000429      |

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|    |      |     |      |             |             |
|----|------|-----|------|-------------|-------------|
| 55 | 4.4V | 38  | 5190 | 5,190.04296 | -0.00000828 |
|    |      | 46  | 5230 | 5,230.08025 | -0.00001534 |
|    |      | 54  | 5270 | 5,270.04689 | -0.00000890 |
|    |      | 62  | 5310 | 5,310.09319 | -0.00001755 |
|    |      | 102 | 5510 | 5,510.05682 | -0.00001031 |
|    |      | 110 | 5550 | 5,550.02886 | -0.00000520 |
|    |      | 134 | 5670 | 5,670.03916 | -0.00000691 |
|    |      | 151 | 5755 | 5,755.04831 | -0.00000839 |
|    |      | 159 | 5795 | 5,795.05572 | -0.00000962 |
|    | 3.4V | 38  | 5190 | 5,190.09082 | -0.00001750 |
|    |      | 46  | 5230 | 5,230.07266 | -0.00001389 |
|    |      | 54  | 5270 | 5,270.01119 | -0.00000212 |
|    |      | 62  | 5310 | 5,310.08580 | -0.00001616 |
|    |      | 102 | 5510 | 5,510.07408 | -0.00001344 |
|    |      | 110 | 5550 | 5,550.07928 | -0.00001428 |
|    |      | 134 | 5670 | 5,670.06457 | -0.00001139 |
|    |      | 151 | 5755 | 5,755.05918 | -0.00001028 |
|    |      | 159 | 5795 | 5,795.03196 | -0.00000552 |

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|                |                 |           |            |
|----------------|-----------------|-----------|------------|
| Operation Mode | 802.11 ac_VHT80 | Test Date | 2017.09.19 |
| Temperature    | :23             | Test By   | Anthony    |
| Humidity       | :68 %           |           |            |

| Test Temp. | Test Voltage | Channel | Measured Frequency (MHz) | Spectrum Frequency (MHz) | ΔFrequency (MHz) |
|------------|--------------|---------|--------------------------|--------------------------|------------------|
| -10        | 4.4V         | 42      | 5210                     | 5,209.93580              | 0.00001232       |
|            |              | 58      | 5290                     | 5,289.92617              | 0.00001396       |
|            |              | 106     | 5530                     | 5,529.95010              | 0.00000902       |
|            |              | 122     | 5610                     | 5,609.94998              | 0.00000892       |
|            |              | 155     | 5775                     | 5,774.99911              | 0.00000015       |
|            | 3.4V         | 42      | 5210                     | 5,209.90175              | 0.00001886       |
|            |              | 58      | 5290                     | 5,289.97240              | 0.00000522       |
|            |              | 106     | 5530                     | 5,529.98644              | 0.00000245       |
|            |              | 122     | 5610                     | 5,609.96692              | 0.00000590       |
|            |              | 155     | 5775                     | 5,774.92457              | 0.00001306       |
| 25         | 3.85V        | 42      | 5210                     | 5,209.98350              | 0.00000317       |
|            |              | 58      | 5290                     | 5,289.94123              | 0.00001111       |
|            |              | 106     | 5530                     | 5,529.95132              | 0.00000880       |
|            |              | 122     | 5610                     | 5,609.90984              | 0.00001607       |
|            |              | 155     | 5775                     | 5,774.94982              | 0.00000869       |
| 55         | 4.4V         | 42      | 5210                     | 5,209.90356              | 0.00001851       |
|            |              | 58      | 5290                     | 5,289.91684              | 0.00001572       |
|            |              | 106     | 5530                     | 5,529.98204              | 0.00000325       |
|            |              | 122     | 5610                     | 5,609.90491              | 0.00001695       |
|            |              | 155     | 5775                     | 5,774.97930              | 0.00000358       |
|            | 3.4V         | 42      | 5210                     | 5,209.99395              | 0.00000116       |
|            |              | 58      | 5290                     | 5,289.90073              | 0.00001877       |
|            |              | 106     | 5530                     | 5,529.95507              | 0.00000812       |
|            |              | 122     | 5610                     | 5,609.95977              | 0.00000717       |
|            |              | 155     | 5775                     | 5,774.95580              | 0.00000765       |

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## 14 ANTENNA REQUIREMENT

### 14.1 Standard Applicable

According to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

According to §15.407, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

According to RSS-GEN 8.3

The applicant for equipment certification, as per RSP-100, must provide a list of all antenna types that may be used with the licence-exempt transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna.

Licence-exempt transmitters that have received equipment certification may operate with different types of antennas. However, it is not permissible to exceed the maximum equivalent isotropically radiated power (e.i.r.p.) limits specified in the applicable standard (RSS) for the licence-exempt apparatus.

Testing shall be performed using the highest gain antenna of each combination of licence-exempt transmitter and antenna type, with the transmitter output power set at the maximum level.<sup>9</sup> When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna manufacturer.

### 14.2 Antenna Connected Construction

An embedded-in antenna design is used.

The antenna is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec. for details.

The antenna gain is less than 6dBi. Therefore, it is not necessary to reduce maximum output power limit.

*~ End of Report ~*

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