# FCC Test Report

| | | |
|---|---|---|
| Equipment | : | ePMP Force 190 |
| Brand Name | : | Cambium Networks |
| Model No. | : | ePMP Force 190 |
| FCC ID | : | Z8H89FT0031 |
| Standard | : | 47 CFR FCC Part 15.407 |
| Operating Band | : | 5250 MHz – 5350 MHz<br>5470 MHz – 5725 MHz |
| Applicant | : | Cambium Networks Inc.<br>3800 Golf Road, Suite 360 Rolling Meadows, IL 60008, USA |
| Manufacturer | : | Cambium Networks Inc.<br>3800 Golf Road, Suite 360 Rolling Meadows, IL 60008, USA |
| Function | : | ☒ Outdoor; ☐ Indoor; ☒ Fixed P2P<br>☐ Client |
| TPC Function | : | ☒ With TPC ☐ Without TPC |

The product sample received on Mar. 30, 2017 and completely tested on Apr. 18, 2017. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Cliff Chang
SPORTON INTERNATIONAL INC.

Testing Laboratory
1190

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**PHOTOGRAPHS OF EUT V01**

# Summary of Test Result

| Conformance Test Specifications | | | |
|---|---|---|---|
| **Report Clause** | **Ref. Std. Clause** | **Description** | **Result** |
| 1.1.2 | 15.203 | Antenna Requirement | Complied |
| 3.1 | 15.407(a) | Emission Bandwidth | Complied |
| 3.2 | 15.407(a) | Maximum Conducted Output Power | Complied |
| 3.3 | 15.407(a) | Peak Power Spectral Density | Complied |
| 3.4 | 15.407(b) | Unwanted Emissions | Complied |
| 3.5 | 15.407(g) | Frequency Stability | Complied |

# Revision History

| Report No. | Version | Description | Issued Date |
|---|---|---|---|
| FR733173-01 | Rev. 01 | Initial issue of report | May 31, 2017 |
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# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

| Frequency Range (MHz) | Mode | Ch. Frequency (MHz) | Channel Number |
|---|---|---|---|
| 5250-5350 | QPSK, 10M | 5250 | 19 |
| | | 5255 | |
| | | 5260 | |
| | | 5265 | |
| | | 5270 | |
| | | 5275 | |
| | | 5280 | |
| | | 5285 | |
| | | 5290 | |
| | | 5295 | |
| | | 5300 | |
| | | 5305 | |
| | | 5310 | |
| | | 5315 | |
| | | 5320 | |
| | | 5325 | |
| | | 5330 | |
| | | 5335 | |
| | | 5340 | |
| 5470-5725 | | 5480 | 50 |
| | | 5485 | |
| | | 5490 | |
| | | 5495 | |
| | | 5500 | |
| | | 5505 | |
| | | 5510 | |
| | | 5515 | |
| | | 5520 | |
| | | 5525 | |
| | | 5530 | |
| | | 5535 | |

| | | | |
|---|---|---|---|
| | | 5540 | |
| | | 5545 | |
| | | 5550 | |
| | | 5555 | |
| | | 5560 | |
| | | 5565 | |
| | | 5570 | |
| | | 5575 | |
| | | 5580 | |
| | | 5585 | |
| | | 5590 | |
| | | 5595 | |
| | | 5600 | |
| | | 5605 | |
| | | 5610 | |
| | | 5615 | |
| | | 5620 | |
| | | 5625 | |
| | | 5630 | |
| | | 5635 | |
| | | 5640 | |
| | | 5645 | |
| | | 5650 | |
| | | 5655 | |
| | | 5660 | |
| | | 5665 | |
| | | 5670 | |
| | | 5675 | |
| | | 5680 | |
| | | 5685 | |
| | | 5690 | |
| | | 5695 | |
| | | 5700 | |
| | | 5705 | |
| | | 5710 | |
| | | 5715 | |
| | | 5720 | |

| | | | |
|---|---|---|---|
| | | 5725 | |
| 5250-5350 | QPSK, 40M | 5270 | 2 |
| | | 5310 | |
| 5470-5725 | | 5510 | 4 |
| | | 5550 | |
| | | 5670 | |
| | | 5710 | |

| Band | Mode | BWch (MHz) | Nant |
|---|---|---|---|
| 5.25-5.35GHz | QPSK,10M | 10 | 2TX |
| 5.25-5.35GHz | QPSK,40M | 40 | 2TX |
| 5.47-5.725GHz | QPSK,10M | 10 | 2TX |
| 5.47-5.725GHz | QPSK,40M | 40 | 2TX |

Note:
- 10M, 40M use QPSK modulation.
- BWch is the nominal channel bandwidth.
- Nss-Min is the minimum number of spatial streams.
- Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.

### 1.1.2 Antenna Information

| Ant. | Port | Brand | Model Name | Antenna Type | Connector | Gain (dBi) |
|---|---|---|---|---|---|---|
| 1 | 1 | - | - | Printed | N/A | 22 |
| | 2 | - | - | Printed | N/A | 22 |

Port 1 and Port 2 can be used as transmitting/receiving antenna.
Port 1 and Port 2 could transmit/receive simultaneously.

### 1.1.3 Mode Test Duty Cycle

| Mode | DC | DCF(dB) |
|---|---|---|
| QPSK,10M | 0.943 | 0.255 |
| QPSK,40M | 0.908 | 0.419 |

### 1.1.4 EUT Operational Condition

| | | | | |
|---|---|---|---|---|
| **EUT Power Type** | From PoE | | | |
| **Beamforming Function** | ☐ | With beamforming | ☒ | Without beamforming |
| **Weather Band** | ☐ | With 5600~5650MHz | ☒ | Without 5600~5650MHz |

### 1.1.5 Table for Class III Change

This product is an extension of original one reported under Sporton project number: FR733173.

Below is the table for the change of the product with respect to the original one.

| Description | Performance Checking |
|---|---|
| Adding 5G Band 2 (5250/5255//5260/5265/5270/5275/5280/5285/5290/5295/5300/5305/5310/5315/5320/5325/5330/5335/5340) and 5G Band 3 (5480/5485/5490/5495/5500/5505/5510/5515/5520/5525/5530/5535/5540/5545/5550/5555/55560/5565/5570/5575/5580/5585/5590/5595/5600/5605/5610/5615/5620/5625/5630/5635/5640/5645/5650/5655/5660/5665/5670/5675/5680/5685/5690/5695/5700/5705/5710/5715/5720/5725) only for 10M and 40M. | 1. Emission Bandwidth<br>2. Maximum Conducted Output Power<br>3. Spectral Density<br>4. Unwanted Emissions<br>5. Frequency Stability |

## 1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR FCC Part 15
- ANSI C63.10-2013
- FCC KDB 789033 D02 v01r04
- FCC KDB 662911 D01 v02r01

## 1.3 Testing Location Information

| Testing Location | | | | | | | |
|---|---|---|---|---|---|---|---|
| ☐ | HWA YA | ADD | : | No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. | | | |
| | | TEL | : | 886-3-327-3456 | FAX | : | 886-3-318-0055 |
| ☒ | JHUBEI | ADD | : | No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. | | | |
| | | TEL | : | 886-3-656-9065 | FAX | : | 886-3-656-9085 |

| Test Condition | Test Site No. | Test Engineer | Test Environment | Test Date |
|---|---|---|---|---|
| RF Conducted | TH01-CB | Lucke Hsieh | 22°C / 54% | Apr. 07, 2017~Apr. 18, 2017 |
| Radiated | 03CH01-CB | Lucke Hsieh | 22°C / 54% | Mar. 30, 2017~ Apr. 18, 2017 |

Test site Designation No. TW0006 with FCC
Test site registered number IC 4086D with Industry Canada.

## 1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)

| Test Items | Uncertainty | Remark |
|---|---|---|
| Radiated Emission (1GHz ~ 18GHz) | 3.7 dB | Confidence levels of 95% |
| Radiated Emission (18GHz ~ 40GHz) | 3.5 dB | Confidence levels of 95% |
| Conducted Emission | 1.7 dB | Confidence levels of 95% |
| Output Power Measurement | 1.33 dB | Confidence levels of 95% |
| Power Density Measurement | 1.27 dB | Confidence levels of 95% |
| Bandwidth Measurement | $9.74 \times 10^{-8}$ | Confidence levels of 95% |
| Frequency Stability | $6.06 \times 10^{-8}$ | Confidence levels of 95% |

# 2 Test Configuration of EUT

## 2.1 Test Channel Mode

| Band | Power Setting |
|---|---|
| QPSK,10M_Nss1_2TX | - |
| 5250MHz | 13 |
| 5250MHz | 13 |
| 5255MHz | 13 |
| 5300MHz | 7.5 |
| 5340MHz | 8.5 |
| QPSK,40M_Nss1_2TX | - |
| 5270MHz | 10.5 |
| 5310MHz | 10.5 |
| QPSK,10M_Nss1_2TX | - |
| 5480MHz | 9 |
| 5595MHz | 13 |
| 5715MHz | 14 |
| 5725MHz Straddle 5.47-5.725GHz | 14 |
| QPSK,40M_Nss1_2TX | - |
| 5510MHz | 11 |
| 5550MHz | 11.5 |
| 5670MHz | 11.5 |
| 5710MHz Straddle 5.47-5.725GHz | 12.5 |
| QPSK,10M_Nss1_2TX | - |
| 5725MHz Straddle 5.725-5.85GHz | 14 |
| QPSK,40M_Nss1_2TX | - |
| 5710MHz Straddle 5.725-5.85GHz | 12.5 |

## 2.2 The Worst Case Measurement Configuration

| The Worst Case Mode for Following Conformance Tests | |
|---|---|
| **Tests Item** | Emission Bandwidth<br>Maximum Conducted Output Power<br>Peak Power Spectral Density<br>Frequency Stability |
| **Test Condition** | Conducted measurement at transmit chains |

| The Worst Case Mode for Following Conformance Tests | |
|---|---|
| **Tests Item** | Unwanted Emissions |
| **Test Condition** | Radiated measurement<br>If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type. |
| **Operating Mode > 1GHz** | CTX |

Note: 1.The EUT can only be used at Z axis position.
2. PoE information as below:

The EUT was powered by PoE, and the PoE was for measurement only, would not be marketed.

| Support Unit | Brand | Model |
|---|---|---|
| PoE | Cambium | G1021-300-0265 |

## 2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

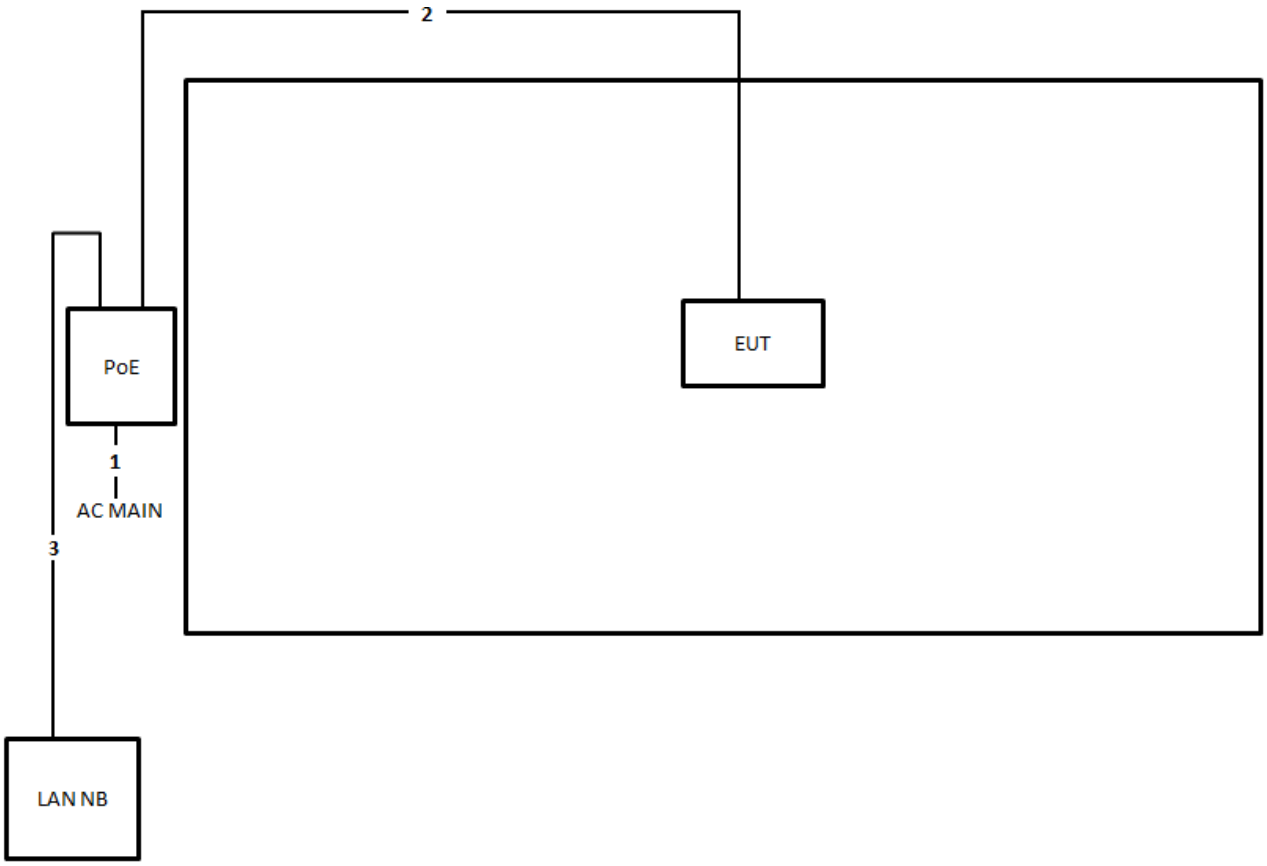
## 2.4 Support Equipment

**For Test Site No: 03CH01-CB / TH01-CB**

| Support Equipment | | | | |
|---|---|---|---|---|
| **No.** | **Equipment** | **Brand Name** | **Model Name** | **FCC ID** |
| 1 | NB | DELL | E4300 | DoC |
| 2 | PoE | Cambium | G1021-300-0265 | DoC |

## 2.5 Test Setup Diagram

**Test Setup Diagram - Radiated Test**




| Item | Connection | Shielded | Length |
|---|---|---|---|
| 1 | Power cable | No | 1m |
| 2 | RJ-45 cable | No | 10m |
| 3 | RJ-45 cable | No | 1.5m |

# 3 Transmitter Test Result

## 3.1 Emission Bandwidth

### 3.1.1 Emission Bandwidth Limit

| Emission Bandwidth Limit |
|---|
| **UNII Devices** |
| ☒ For the 5.15-5.25 GHz band, N/A |
| ☒ For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. |
| ☒ For the 5.47-5.725 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. |
| ☒ For the 5.725-5.85 GHz band, 6 dB emission bandwidth ≥ 500kHz. |
| **LE-LAN Devices** |
| ☐ For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. |
| ☐ For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz |
| ☐ For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz |
| ☐ For the 5.725-5.85 GHz band, 6 dB emission bandwidth ≥ 500kHz. |

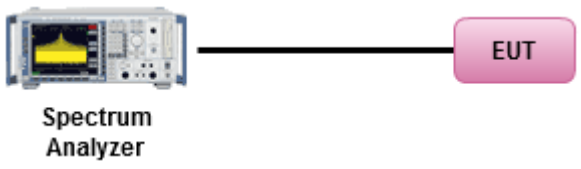
### 3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

### 3.1.3 Test Procedures

| Test Method | |
|---|---|
| ▪ For the emission bandwidth shall be measured using one of the options below: | |
| | ☒ Refer as FCC KDB 789033, clause C for EBW and clause D for OBW measurement. |
| | ☐ Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing. |
| | ☒ Refer as IC RSS-Gen, clause 4.6 for bandwidth testing. |

### 3.1.4 Test Setup

| Emission Bandwidth |
|---|
|   |

### 3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A

# 3.2 Maximum Conducted Output Power

## 3.2.1 Maximum Conducted Output Power Limit

| Maximum Conducted Output Power Limit | |
|---|---|
| **UNII Devices** | |
| ☒ | For the 5.15-5.25 GHz band: |
| | ▪ Outdoor AP: the maximum conducted output power ($P_{Out}$) shall not exceed the lesser of 1 W. If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 30 – ($G_{TX}$ – 6). e.i.r.p. at any elevation angle above 30 degrees ≤ 125mW [21dBm] |
| | ▪ Indoor AP: the maximum conducted output power ($P_{Out}$) shall not exceed the lesser of 1 W. If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 30 – ($G_{TX}$ – 6) |
| | ▪ Point-to-point AP: the maximum conducted output power ($P_{Out}$) shall not exceed the lesser of 1 W If $G_{TX}$ > 23 dBi, then $P_{Out}$ = 30 – ($G_{TX}$ – 23). |
| | ▪ Mobile or Portable Client: the maximum conducted output power ($P_{Out}$) shall not exceed the lesser of 250 mW. If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 24 – ($G_{TX}$ – 6). |
| ☒ | For the 5.25-5.35 GHz band, the maximum conducted output power ($P_{Out}$) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 24 – ($G_{TX}$ – 6). |
| ☒ | For the 5.47-5.725 GHz band, the maximum conducted output power ($P_{Out}$) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 24 – ($G_{TX}$ – 6). |
| ☒ | For the 5.725-5.85 GHz band: |
| | ▪ Point-to-multipoint systems (P2M): the maximum conducted output power ($P_{Out}$) shall not exceed the lesser of 1 W. If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 30 – ($G_{TX}$ – 6). |
| | ▪ Point-to-point systems (P2P): the maximum conducted output power ($P_{Out}$) shall not exceed the lesser of 1 W. |
| **LE-LAN Devices** | |
| ☐ | For the 5.15-5.25 GHz band, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. |
| ☐ | For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz |
| ☐ | For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz |
| ☐ | For the 5.725-5.85 GHz band: |
| | ▪ Point-to-multipoint systems (P2M): the maximum conducted output power ($P_{Out}$) shall not exceed the lesser of 1 W. If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 30 – ($G_{TX}$ – 6). |
| | ▪ Point-to-point systems (P2P): the maximum conducted output power ($P_{Out}$) shall not exceed the lesser of 1 W. |
| **$P_{Out}$** = maximum conducted output power in dBm,<br>**$G_{TX}$** = the maximum transmitting antenna directional gain in dBi. | |

### 3.2.2 Measuring Instruments

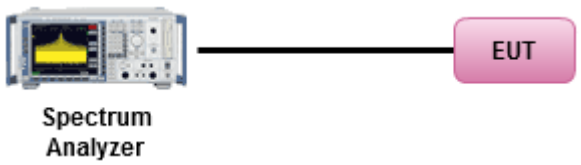
Refer a test equipment and calibration data table in this test report.

### 3.2.3 Test Procedures

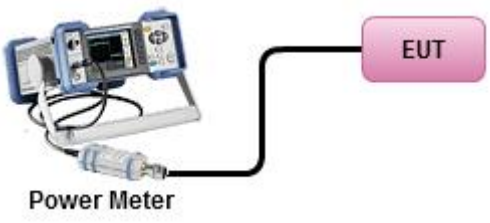
| Test Method | |
|---|---|
| ▪ Maximum Conducted Output Power | |
| | Average over on/off periods with duty factor |
| | ☒ Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging). |
| | ☐ Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed) |
| | Wideband RF power meter and average over on/off periods with duty factor |
| | ☒ Refer as FCC KDB 789033, clause E Method PM-G (using an RF average power meter). |
| ▪ For conducted measurement. | |
| | ▪ If the EUT supports multiple transmit chains using options given below:<br>Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them. |
| | ▪ If multiple transmit chains, EIRP calculation could be following as methods:<br>$P_{total} = P_1 + P_2 + \ldots + P_n$<br>(calculated in linear unit [mW] and transfer to log unit [dBm])<br>$EIRP_{total} = P_{total} + DG$ |

### 3.2.4 Test Setup

For Straddle channel test:

| RF Output Power (Spectrum Analyzer) |
|---|
|  |

For Other Test:

| RF Output Power (Power Meter) |
|---|
|  |

### 3.2.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B

# 3.3 Peak Power Spectral Density

## 3.3.1 Peak Power Spectral Density Limit

| Peak Power Spectral Density Limit | |
|---|---|
| **UNII Devices** | |
| ☒ | For the 5.15-5.25 GHz band: |
| | ▪ Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 17 – ($G_{TX}$ – 6). |
| | ▪ Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 17 – ($G_{TX}$ – 6). |
| | ▪ Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX}$ > 23 dBi, then $P_{Out}$ = 17 – ($G_{TX}$ – 23). |
| | ▪ Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX}$ > 6 dBi, then PPSD= 11 – ($G_{TX}$ – 6).. |
| ☒ | For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX}$ > 6 dBi, then PPSD= 11 – ($G_{TX}$ – 6). |
| ☒ | For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX}$ > 6 dBi, then PPSD= 11 – ($G_{TX}$ – 6). |
| ☒ | For the 5.725-5.85 GHz band: |
| | ▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX}$ > 6 dBi, then PPSD= 30 – ($G_{TX}$ – 6). |
| | ▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. |
| **LE-LAN Devices** | |
| ☐ | For the 5.15-5.25 GHz band, the peak power spectral density (PPSD) ≤ 4 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz. |
| ☐ | For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 17 dBm/MHz. |
| | ▪ e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below:<br>-13 dBW/MHz for 0° ≤ θ < 8° ; -13 − 0.716 (θ-8) dBW/MHz for 8° ≤ θ < 40°<br>-35.9 − 1.22 (θ-40) dBW/MHz for 40° ≤ θ ≤ 45° ; -42 dBW/MHz for θ > 45° |
| ☐ | For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 17 dBm/MHz. |
| ☐ | For the 5.725-5.85 GHz band: |
| | ▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX}$ > 6 dBi, then PPSD= 30 – ($G_{TX}$ – 6). |
| | ▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. |
| **PPSD** = peak power spectral density that he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz<br>**$G_{TX}$** = the maximum transmitting antenna directional gain in dBi. | |

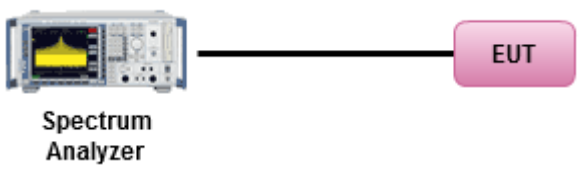
## 3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

### 3.3.3 Test Procedures

| Test Method | |
|---|---|
| ▪ Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options: | |
| | ☐ Refer as FCC KDB 789033, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth |
| | [duty cycle ≥ 98% or external video / power trigger] |
| | ☒ Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging). |
| | ☐ Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed) |
| | duty cycle < 98% and average over on/off periods with duty factor |
| | ☒ Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging). |
| | ☐ Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed) |
| ▪ For conducted measurement. | |
| | ▪ If the EUT supports multiple transmit chains using options given below: |
| | ☒ Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace. |
| | ☐ Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits, |
| | ☐ Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit. |
| | ▪ If multiple transmit chains, EIRP PPSD calculation could be following as methods:<br>$PPSD_{total} = PPSD_1 + PPSD_2 + \ldots + PPSD_n$<br>(calculated in linear unit [mW] and transfer to log unit [dBm])<br>$EIRP_{total} = PPSD_{total} + DG$ |

### 3.3.4 Test Setup

| Power Spectral Density |
|---|
|  |

### 3.3.5 Test Result of Peak Power Spectral Density

Refer as Appendix C

## 3.4 Unwanted Emissions

### 3.4.1 Transmitter Radiated Unwanted Emissions Limit

| Unwanted emissions below 1 GHz and restricted band emissions above 1GHz limit | | | |
|---|---|---|---|
| **Frequency Range (MHz)** | **Field Strength (uV/m)** | **Field Strength (dBuV/m)** | **Measure Distance (m)** |
| 0.009~0.490 | 2400/F(kHz) | 48.5 - 13.8 | 300 |
| 0.490~1.705 | 24000/F(kHz) | 33.8 - 23 | 30 |
| 1.705~30.0 | 30 | 29 | 30 |
| 30~88 | 100 | 40 | 3 |
| 88~216 | 150 | 43.5 | 3 |
| 216~960 | 200 | 46 | 3 |
| Above 960 | 500 | 54 | 3 |

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

| Un-restricted band emissions above 1GHz Limit | |
|---|---|
| **Operating Band** | **Limit** |
| 5.15 - 5.25 GHz | e.i.r.p. -27 dBm [68.2 dBuV/m@3m] |
| 5.25 - 5.35 GHz | e.i.r.p. -27 dBm [68.2 dBuV/m@3m] |
| 5.47 - 5.725 GHz | e.i.r.p. -27 dBm [68.2 dBuV/m@3m] |
| 5.725 - 5.85 GHz | 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. |

Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

### 3.4.2 Measuring Instruments

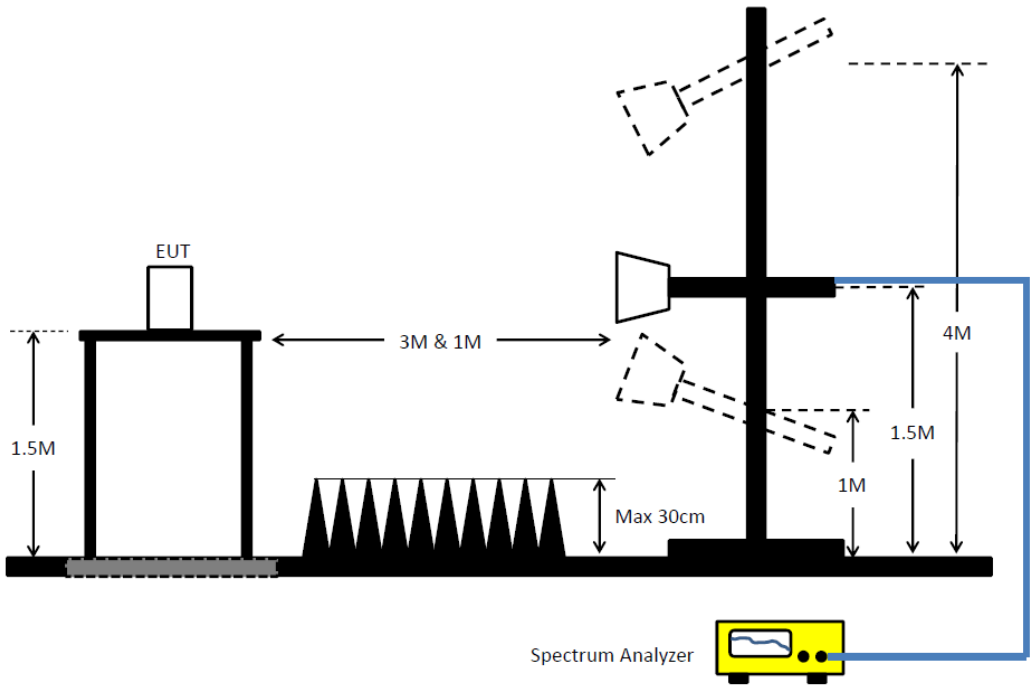
Refer a test equipment and calibration data table in this test report.

### 3.4.3 Test Procedures

| Test Method | | |
|---|---|---|
| ▪ Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements). | | |
| ▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor]. | | |
| ▪ For the transmitter unwanted emissions shall be measured using following options below: | | |
| | ▪ Refer as FCC KDB 789033, clause H)2) for unwanted emissions into non-restricted bands. | |
| | ▪ Refer as FCC KDB 789033, clause H)1) for unwanted emissions into restricted bands. | |
| | | ☐ Refer as FCC KDB 789033, H)6) Method AD (Trace Averaging). |
| | | ☒ Refer as FCC KDB 789033, H)6) Method VB (Reduced VBW). |
| | | ☐ Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time. |
| | | ☐ Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions. |
| | | ☒ Refer as FCC KDB 789033, clause H)5) measurement procedure peak limit. |
| | | ☐ Refer as ANSI C63.10, clause 4.2.3.2.2 measurement procedure peak limit. |
| ▪ For radiated measurement. | | |
| | ▪ Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m. | |
| | ▪ Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m. | |
| | ▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz. | |
| ▪ The any unwanted emissions level shall not exceed the fundamental emission level. | | |
| ▪ All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported. | | |

### 3.4.4 Test Setup

| Transmitter Radiated Unwanted Emissions |
| --- |
| Above 1GHz |




### 3.4.5 Test Result of Transmitter Unwanted Emissions

Refer as Appendix D

# 3.5 Frequency Stability

## 3.5.1 Frequency Stability Limit

| Frequency Stability Limit |
|---|
| **UNII Devices** |
| ▪ In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual. |
| **LE-LAN Devices** |
| ▪ N/A |
| **IEEE Std. 802.11** |
| ▪ The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band and ± 25 ppm maximum for the 2.4 GHz band. |

## 3.5.2 Measuring Instruments

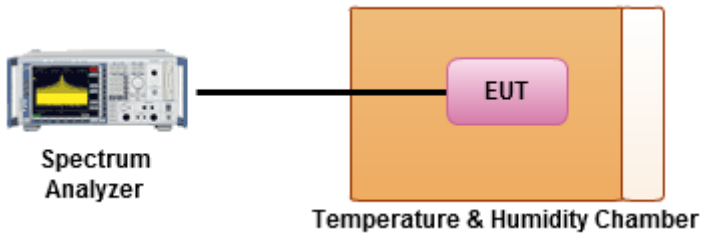
Refer a test equipment and calibration data table in this test report.

## 3.5.3 Test Procedures

| Test Method | |
|---|---|
| ▪ Refer as ANSI C63.10, clause 6.8 for frequency stability tests | |
| | ▪ Frequency stability with respect to ambient temperature |
| | ▪ Frequency stability when varying supply voltage |
| | ▪ Extreme temperature is -40°C~70°C. |

## 3.5.4 Test Setup

**Frequency Stability**




## 3.5.5 Test Result of Frequency Stability

Refer as Appendix E

# 4 Test Equipment and Calibration Data

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Remark |
|---|---|---|---|---|---|---|
| Horn Antenna | EMCO | 3115 | 00075790 | 750MHz ~ 18GHz | Nov. 10, 2016 | Radiation (03CH01-CB) |
| Horn Antenna | Schwarzbeck | BBHA 9170 | BBHA9170252 | 15GHz ~ 40GHz | Jul. 25, 2016 | Radiation (03CH01-CB) |
| Pre-Amplifier | Agilent | 8449B | 3008A02310 | 1GHz ~ 26.5GHz | Jan. 16, 2017 | Radiation (03CH01-CB) |
| Pre-Amplifier | MITEQ | TTA1840-35-HG | 1864479 | 18GHz ~ 40GHz | Jun. 28, 2016 | Radiation (03CH01-CB) |
| Spectrum Analyzer | R&S | FSP40 | 100056 | 9kHz ~ 40GHz | Nov. 22, 2016 | Radiation (03CH01-CB) |
| RF Cable-high | Woken | High Cable-16 | N/A | 1 GHz ~ 18 GHz | Oct. 24, 2016 | Radiation (03CH01-CB) |
| RF Cable-high | Woken | High Cable-16+17 | N/A | 1 GHz ~ 18 GHz | Oct. 24, 2016 | Radiation (03CH01-CB) |
| RF Cable-high | Woken | High Cable-40G#1 | N/A | 18GHz ~ 40 GHz | Oct. 24, 2016 | Radiation (03CH01-CB) |
| RF Cable-high | Woken | High Cable-40G#2 | N/A | 18GHz ~ 40 GHz | Oct. 24, 2016 | Radiation (03CH01-CB) |
| Test Software | Audix | E3 | 6.2009-l0-7 | N/A | N/A | Radiation (03CH01-CB) |
| Spectrum analyzer | R&S | FSV40 | 100979 | 9kHz~40GHz | Dec. 26, 2016 | Conducted (TH01-CB) |
| Temp. and Humidity Chamber | Ten Billion | TTH-D3SP | TBN-931011 | -30~100 degree | Jun. 03, 2016 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-6 | 1 GHz – 26.5 GHz | Oct. 24, 2016 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-7 | 1 GHz –26.5 GHz | Oct. 24, 2016 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-8 | 1 GHz –26.5 GHz | Oct. 24, 2016 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-9 | 1 GHz –26.5 GHz | Oct. 24, 2016 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-10 | 1 GHz –26.5 GHz | Oct. 24, 2016 | Conducted (TH01-CB) |
| Power Sensor | Agilent | U2021XA | MY53410001 | 50MHz~18GHz | Nov. 22, 2016 | Conducted (TH01-CB) |

Note: Calibration Interval of instruments listed above is one year.

**Summary**

| Mode | Max-N dB (Hz) | Max-OBW (Hz) | ITU-Code | Min-N dB (Hz) | Min-OBW (Hz) |
|---|---|---|---|---|---|
| QPSK,10M_Nss1_2TX | - | - | - | - | - |
| 5.15-5.25GHz | 4.96M | 4.398M | 4M40D1D | 4.8M | 4.398M |
| 5.25-5.35GHz | 10.8M | 8.821M | 8M82D1D | 4.8M | 4.398M |
| QPSK,40M_Nss1_2TX | - | - | - | - | - |
| 5.25-5.35GHz | 47.55M | 36.282M | 36M3D1D | 46.45M | 36.182M |
| QPSK,10M_Nss1_2TX | - | - | - | - | - |
| 5.47-5.725GHz | 10.55M | 8.821M | 8M82D1D | 4.92M | 4.363M |
| QPSK,40M_Nss1_2TX | - | - | - | - | - |
| 5.47-5.725GHz | 48.35M | 36.382M | 36M4D1D | 38.43M | 33.093M |
| QPSK,10M_Nss1_2TX | - | - | - | - | - |
| 5.725-5.85GHz | 4.3M | 4.478M | 4M48D1D | 4.28M | 4.338M |
| QPSK,40M_Nss1_2TX | - | - | - | - | - |
| 5.725-5.85GHz | 3.14M | 4.978M | 4M98D1D | 3.14M | 4.718M |

**Max-N dB** = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
**Max-OBW** = Maximum 99% occupied bandwidth;
**Min-N dB** = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
**Min-OBW** = Minimum 99% occupied bandwidth;

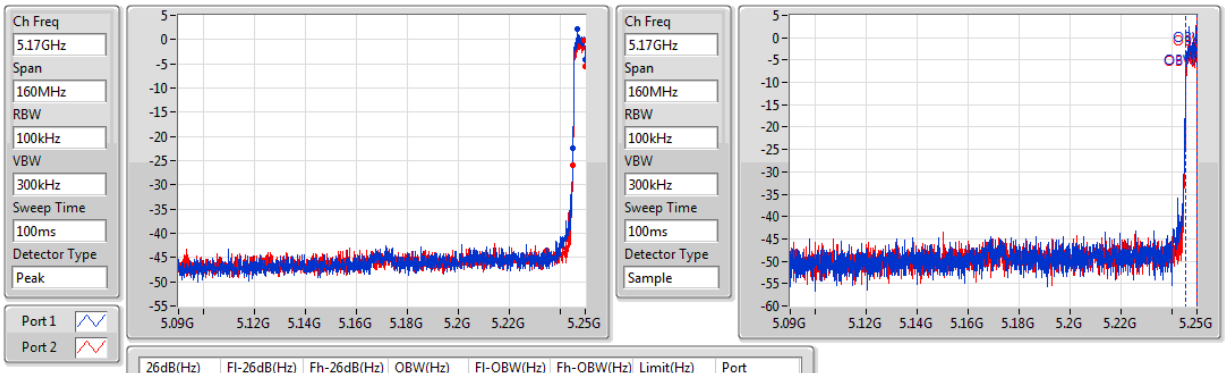
**Result**

| Mode | Result | Limit (Hz) | Port 1-N dB (Hz) | Port 1-OBW (Hz) | Port 2-N dB (Hz) | Port 2-OBW (Hz) |
|---|---|---|---|---|---|---|
| QPSK,10M_Nss1_2TX | - | - | - | - | - | - |
| 5250MHz | Pass | Inf | 4.8M | 4.398M | 4.96M | 4.398M |
| 5250MHz | Pass | Inf | 4.8M | 4.398M | 4.8M | 4.398M |
| 5255MHz | Pass | Inf | 9.988M | 8.796M | 9.925M | 8.808M |
| 5300MHz | Pass | Inf | 9.95M | 8.808M | 10.438M | 8.796M |
| 5340MHz | Pass | Inf | 10.8M | 8.808M | 10.388M | 8.821M |
| QPSK,40M_Nss1_2TX | - | - | - | - | - | - |
| 5270MHz | Pass | Inf | 47.55M | 36.282M | 46.45M | 36.232M |
| 5310MHz | Pass | Inf | 47.55M | 36.182M | 46.7M | 36.232M |
| QPSK,10M_Nss1_2TX | - | - | - | - | - | - |
| 5480MHz | Pass | Inf | 10.375M | 8.796M | 10.288M | 8.821M |
| 5595MHz | Pass | Inf | 10.55M | 8.808M | 10M | 8.821M |
| 5715MHz | Pass | Inf | 10.413M | 8.796M | 9.875M | 8.808M |
| 5725MHz Straddle 5.47-5.725GHz | Pass | Inf | 5.1M | 4.363M | 4.92M | 4.363M |
| QPSK,40M_Nss1_2TX | - | - | - | - | - | - |
| 5510MHz | Pass | Inf | 47.5M | 36.282M | 47M | 36.282M |
| 5550MHz | Pass | Inf | 48.35M | 36.382M | 46.65M | 36.182M |
| 5670MHz | Pass | Inf | 47.6M | 36.182M | 45.85M | 36.182M |
| 5710MHz Straddle 5.47-5.725GHz | Pass | Inf | 40.04M | 33.093M | 38.43M | 33.093M |
| QPSK,10M_Nss1_2TX | - | - | - | - | - | - |
| 5725MHz Straddle 5.725-5.85GHz | Pass | 500k | 4.28M | 4.338M | 4.3M | 4.478M |
| QPSK,40M_Nss1_2TX | - | - | - | - | - | - |
| 5710MHz Straddle 5.725-5.85GHz | Pass | 500k | 3.14M | 4.978M | 3.14M | 4.718M |

**Port X-N dB** = Port **X** 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
**Port X-OBW** = Port **X** 99% occupied bandwidth;

**QPSK,10M_Nss1_2TX** **EBW**

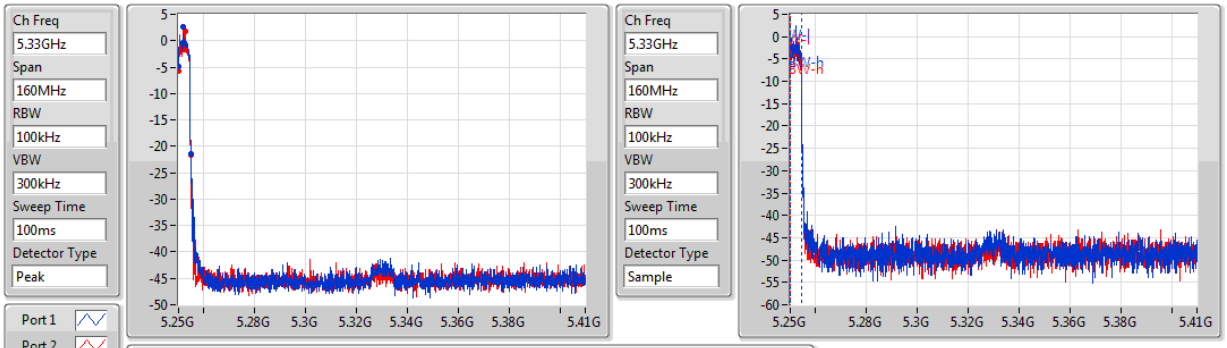
**5250MHz**




| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 4.8M | 5.2452G | 5.25G | 4.398M | 5.245482G | 5.24988G | Inf | 1 |
| 4.96M | 5.24504G | 5.25G | 4.398M | 5.245482G | 5.24988G | Inf | 2 |

**QPSK,10M_Nss1_2TX** **EBW**

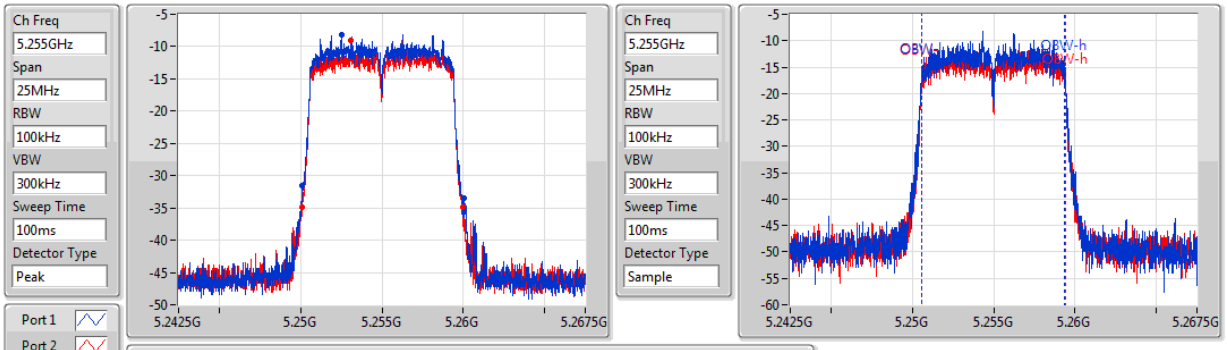
**5250MHz**




| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 4.8M | 5.25G | 5.2548G | 4.398M | 5.25004G | 5.254438G | Inf | 1 |
| 4.8M | 5.25G | 5.2548G | 4.398M | 5.25004G | 5.254438G | Inf | 2 |

**QPSK,10M_Nss1_2TX** **EBW**

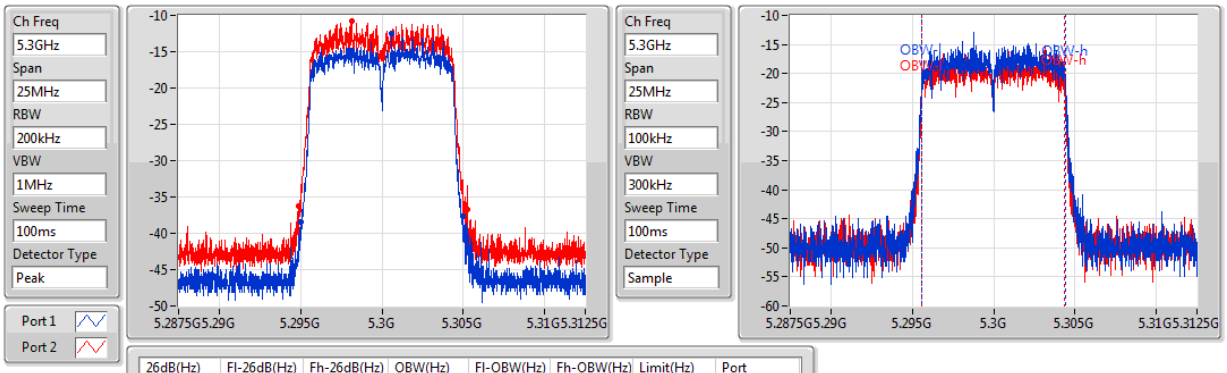
**5255MHz**




| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 9.988M | 5.250063G | 5.26005G | 8.796M | 5.25059G | 5.259385G | Inf | 1 |
| 9.925M | 5.250075G | 5.26G | 8.808M | 5.25059G | 5.259398G | Inf | 2 |

## QPSK,10M_Nss1_2TX — EBW

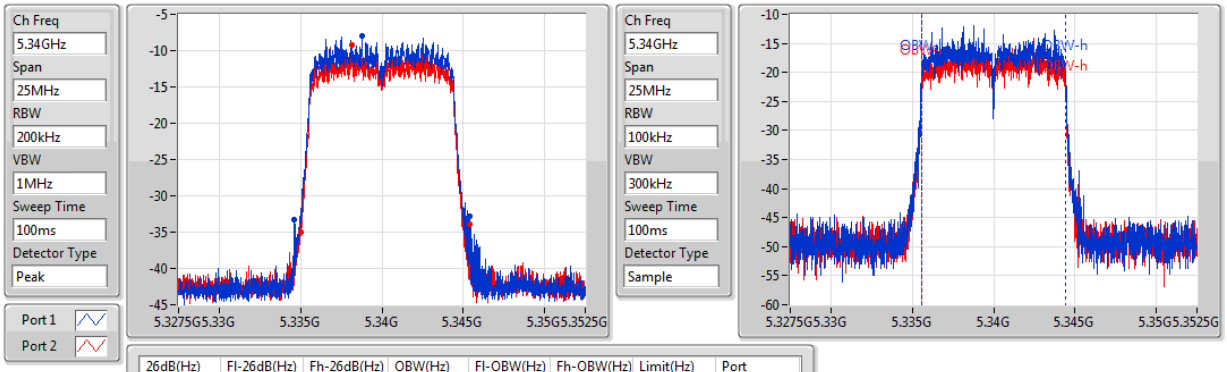
### 5300MHz




| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 9.95M | 5.295025G | 5.304975G | 8.808M | 5.29559G | 5.304398G | Inf | 1 |
| 10.438M | 5.29485G | 5.305288G | 8.796M | 5.29559G | 5.304385G | Inf | 2 |

## QPSK,10M_Nss1_2TX — EBW

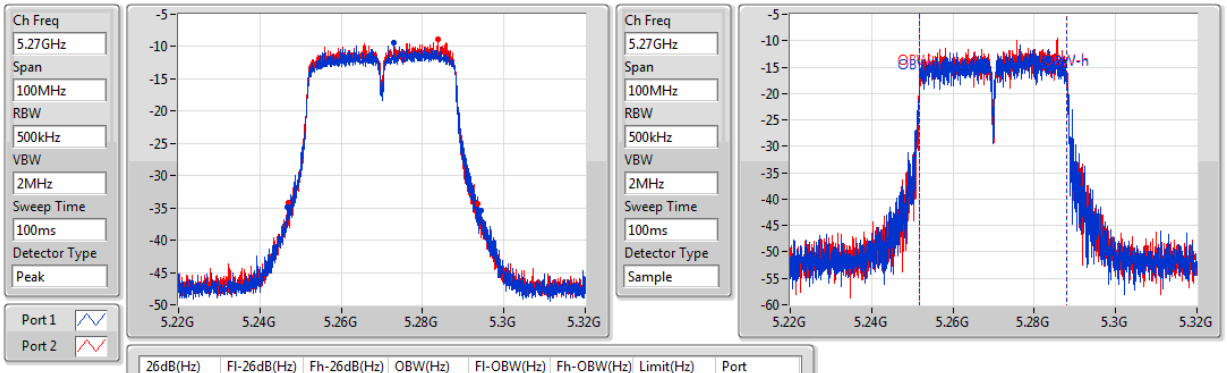
### 5340MHz




| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 10.8M | 5.334588G | 5.345388G | 8.808M | 5.33559G | 5.344398G | Inf | 1 |
| 10.388M | 5.334988G | 5.345375G | 8.821M | 5.335577G | 5.344398G | Inf | 2 |

## QPSK,40M_Nss1_2TX — EBW

### 5270MHz

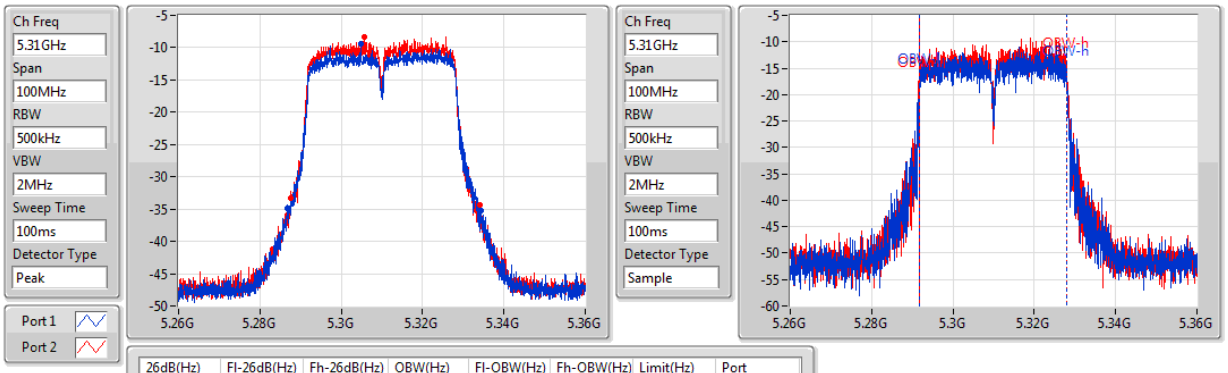



| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 47.55M | 5.2468G | 5.29435G | 36.282M | 5.251809G | 5.288091G | Inf | 1 |
| 46.45M | 5.24705G | 5.2935G | 36.232M | 5.251859G | 5.288091G | Inf | 2 |

## QPSK,40M_Nss1_2TX

EBW

5310MHz

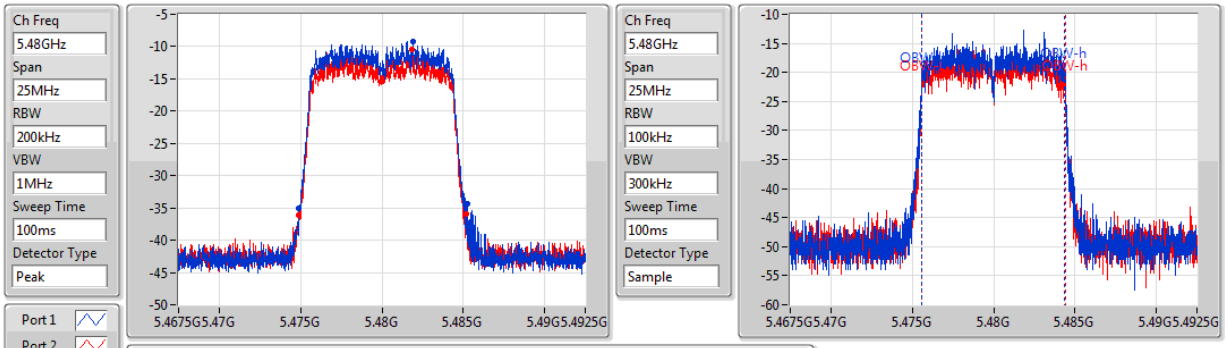



| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 47.55M | 5.2868G | 5.33435G | 36.182M | 5.291859G | 5.328041G | Inf | 1 |
| 46.7M | 5.2875G | 5.3342G | 36.232M | 5.291809G | 5.328041G | Inf | 2 |

## QPSK,10M_Nss1_2TX

EBW

5480MHz

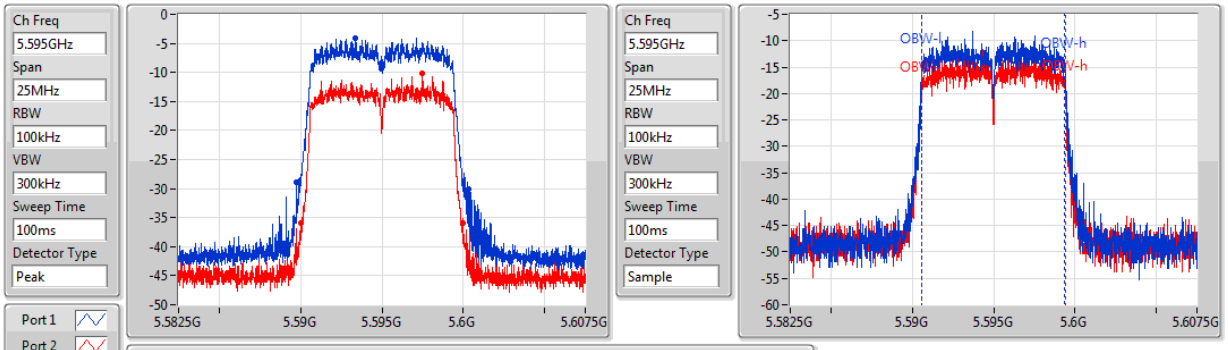



| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 10.375M | 5.474913G | 5.485288G | 8.796M | 5.47559G | 5.484385G | Inf | 1 |
| 10.288M | 5.474888G | 5.485175G | 8.821M | 5.475577G | 5.484398G | Inf | 2 |

## QPSK,10M_Nss1_2TX

EBW

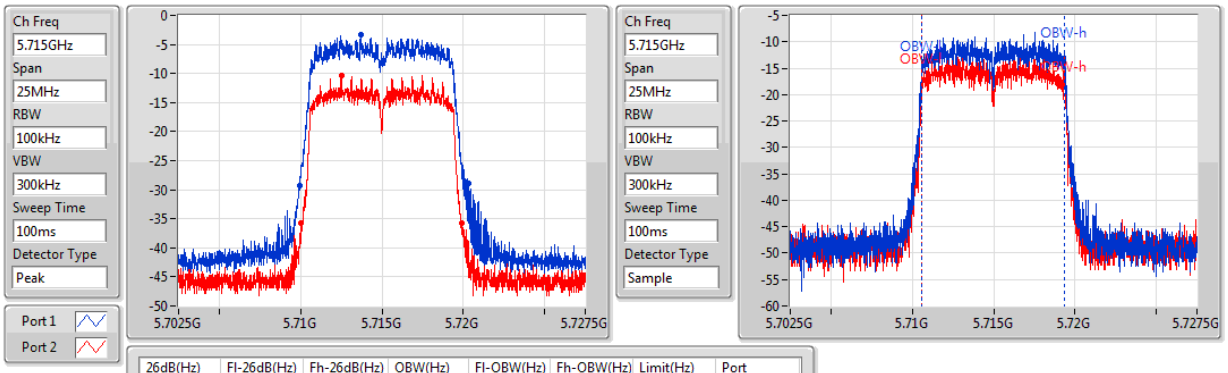
5595MHz




| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 10.55M | 5.589763G | 5.600313G | 8.808M | 5.590577G | 5.599385G | Inf | 1 |
| 10M | 5.590013G | 5.600013G | 8.821M | 5.590577G | 5.599398G | Inf | 2 |

## QPSK,10M_Nss1_2TX — EBW

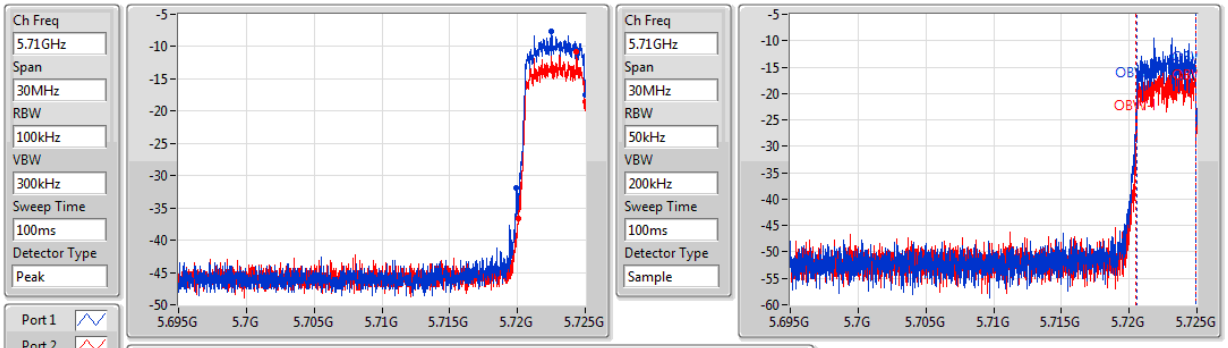
### 5715MHz




| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 10.413M | 5.709925G | 5.720338G | 8.796M | 5.71059G | 5.719385G | Inf | 1 |
| 9.875M | 5.710038G | 5.719913G | 8.808M | 5.710577G | 5.719385G | Inf | 2 |

## QPSK,10M_Nss1_2TX — EBW

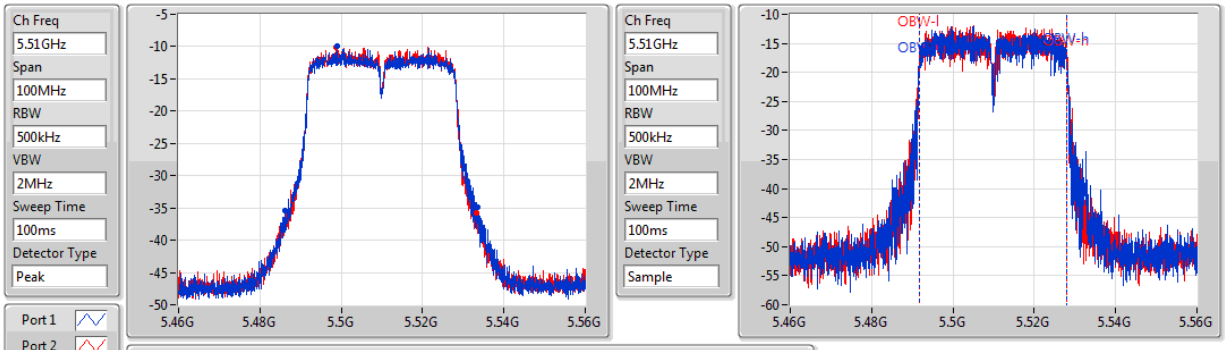
### 5725MHz Straddle 5.47-5.725GHz




| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 5.1M | 5.7199G | 5.725G | 4.363M | 5.72054G | 5.724903G | Inf | 1 |
| 4.92M | 5.72008G | 5.725G | 4.363M | 5.720525G | 5.724888G | Inf | 2 |

## QPSK,40M_Nss1_2TX — EBW

### 5510MHz

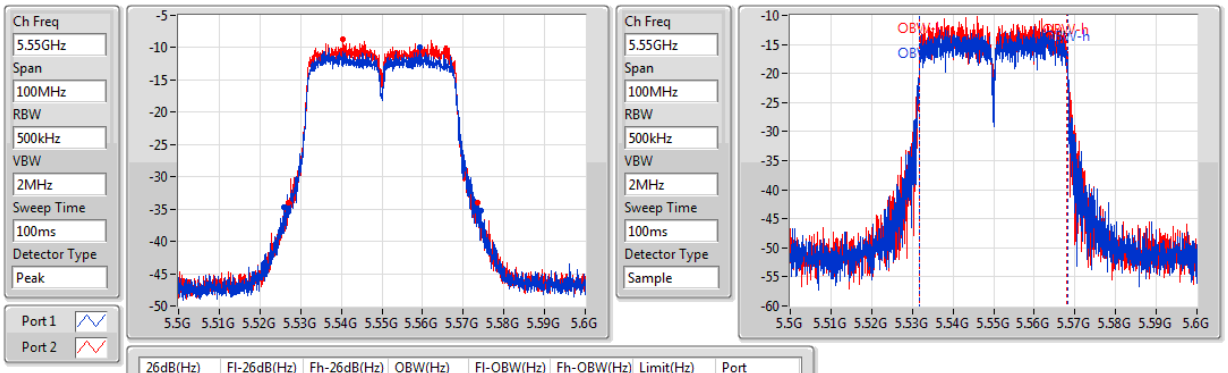



| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 47.5M | 5.48615G | 5.53365G | 36.282M | 5.491759G | 5.528041G | Inf | 1 |
| 47M | 5.48625G | 5.53325G | 36.282M | 5.491759G | 5.528041G | Inf | 2 |

## QPSK,40M_Nss1_2TX

EBW

### 5550MHz

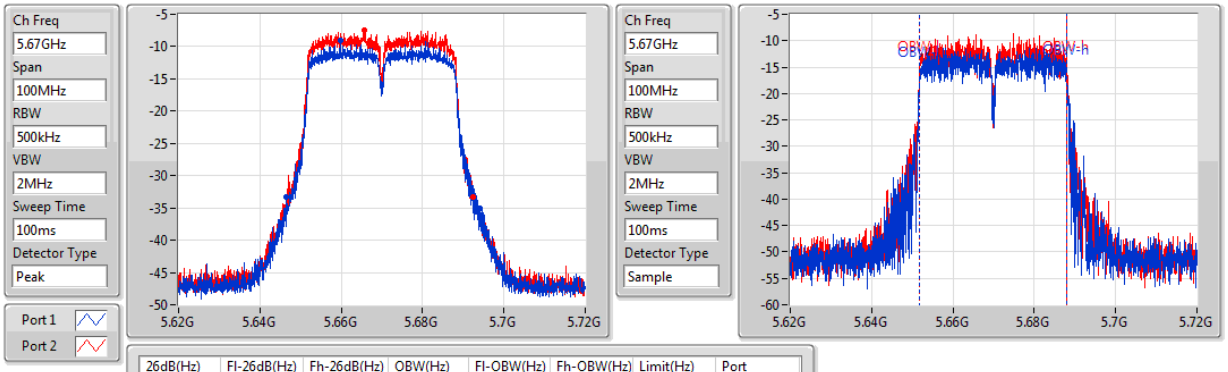



| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 48.35M | 5.526G | 5.57435G | 36.382M | 5.531759G | 5.568141G | Inf | 1 |
| 46.65M | 5.52695G | 5.5736G | 36.182M | 5.531859G | 5.568041G | Inf | 2 |

## QPSK,40M_Nss1_2TX

EBW

### 5670MHz

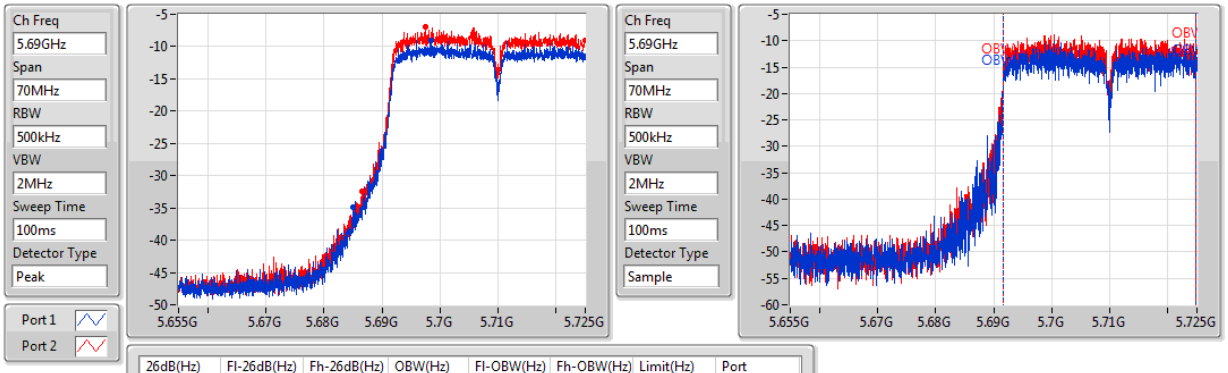



| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 47.6M | 5.6464G | 5.694G | 36.182M | 5.651859G | 5.688041G | Inf | 1 |
| 45.85M | 5.6466G | 5.69245G | 36.182M | 5.651859G | 5.688041G | Inf | 2 |

## QPSK,40M_Nss1_2TX

EBW

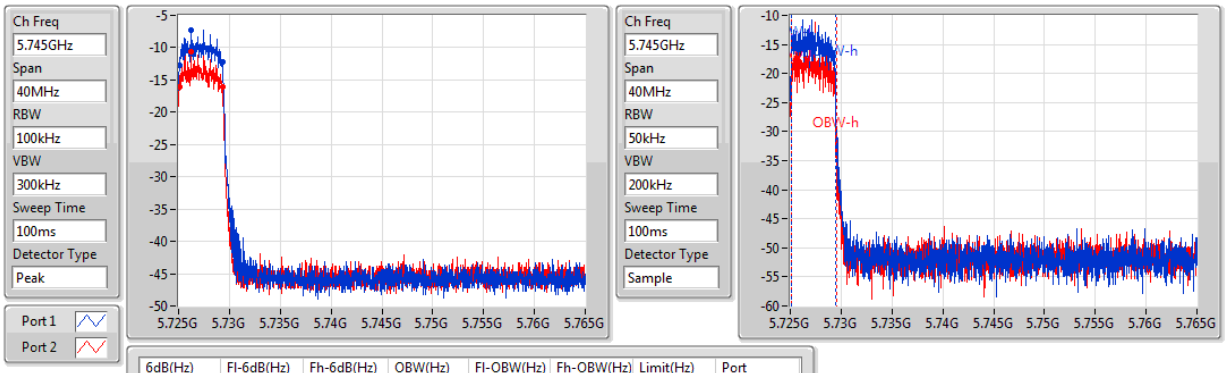
### 5710MHz Straddle 5.47-5.725GHz




| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 40.04M | 5.68496G | 5.725G | 33.093M | 5.691749G | 5.724843G | Inf | 1 |
| 38.43M | 5.68657G | 5.725G | 33.093M | 5.691749G | 5.724843G | Inf | 2 |

**QPSK,10M_Nss1_2TX** **EBW**

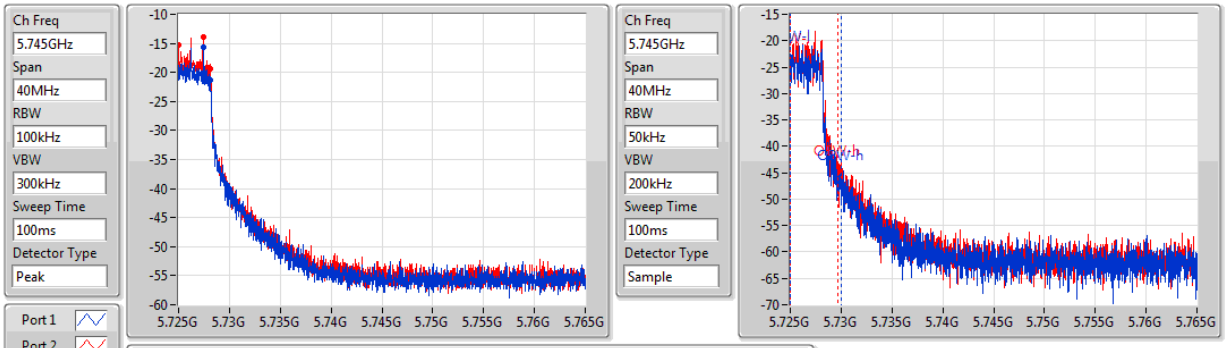
**5725MHz Straddle 5.725-5.85GHz**




| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 4.28M | 5.72506G | 5.72934G | 4.338M | 5.72509G | 5.729428G | 500k | 1 |
| 4.3M | 5.72506G | 5.72936G | 4.478M | 5.72509G | 5.729568G | 500k | 2 |

**QPSK,40M_Nss1_2TX** **EBW**

**5710MHz Straddle 5.725-5.85GHz**




| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 3.14M | 5.725G | 5.72814G | 4.978M | 5.72501G | 5.729988G | 500k | 1 |
| 3.14M | 5.725G | 5.72814G | 4.718M | 5.72501G | 5.729728G | 500k | 2 |

**Summary**

| Mode | Total Power (dBm) | Total Power (W) | EIRP (dBm) | EIRP (W) |
|---|---|---|---|---|
| QPSK,10M_Nss1_2TX | - | - | - | - |
| 5.15-5.25GHz | 1.38 | 0.00137 | 23.38 | 0.21777 |
| 5.25-5.35GHz | 4.84 | 0.00305 | 26.84 | 0.48306 |
| QPSK,40M_Nss1_2TX | - | - | - | - |
| 5.25-5.35GHz | 3.01 | 0.00200 | 25.01 | 0.31696 |
| QPSK,10M_Nss1_2TX | - | - | - | - |
| 5.47-5.725GHz | 4.87 | 0.00307 | 26.87 | 0.48641 |
| QPSK,40M_Nss1_2TX | - | - | - | - |
| 5.47-5.725GHz | 4.14 | 0.00259 | 26.14 | 0.41115 |
| QPSK,10M_Nss1_2TX | - | - | - | - |
| 5.725-5.85GHz | 1.64 | 0.00146 | 23.64 | 0.23121 |
| QPSK,40M_Nss1_2TX | - | - | - | - |
| 5.725-5.85GHz | -7.01 | 0.00020 | 14.99 | 0.03155 |

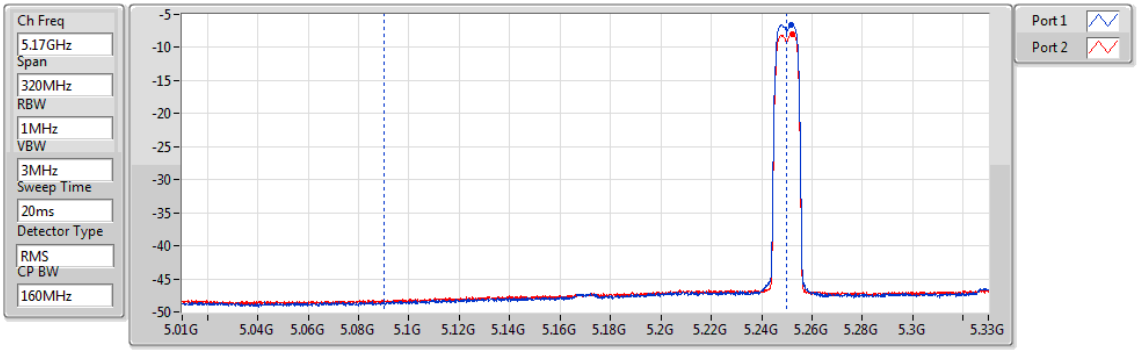
**Result**

| Mode | Result | DG (dBi) | Port 1 (dBm) | Port 2 (dBm) | Total Power (dBm) | Power Limit (dBm) |
|---|---|---|---|---|---|---|
| QPSK,10M_Nss1_2TX | - | - | - | - | - | - |
| 5250MHz | Pass | 22.00 | -0.93 | -2.47 | 1.38 | 30.00 |
| 5250MHz | Pass | 22.00 | -0.72 | -1.89 | 1.74 | 1.81 |
| 5255MHz | Pass | 22.00 | 2.38 | 1.2 | 4.84 | 4.97 |
| 5300MHz | Pass | 22.00 | -2.47 | -4.35 | -0.30 | 4.98 |
| 5340MHz | Pass | 22.00 | -1.55 | -3.13 | 0.74 | 5.17 |
| QPSK,40M_Nss1_2TX | - | - | - | - | - | - |
| 5270MHz | Pass | 22.00 | -0.68 | -0.23 | 2.56 | 7.98 |
| 5310MHz | Pass | 22.00 | -0.57 | 0.51 | 3.01 | 7.98 |
| QPSK,10M_Nss1_2TX | - | - | - | - | - | - |
| 5480MHz | Pass | 22.00 | -2.18 | -3.78 | 0.10 | 5.12 |
| 5595MHz | Pass | 22.00 | 3.06 | 0.08 | 4.83 | 5.00 |
| 5715MHz | Pass | 22.00 | 3.35 | -0.43 | 4.87 | 4.95 |
| 5725MHz Straddle 5.47-5.725GHz | Pass | 22.00 | 0.36 | -3.45 | 1.87 | 1.92 |
| QPSK,40M_Nss1_2TX | - | - | - | - | - | - |
| 5510MHz | Pass | 22.00 | -0.89 | -0.5 | 2.32 | 7.98 |
| 5550MHz | Pass | 22.00 | -0.39 | 0.65 | 3.17 | 7.98 |
| 5670MHz | Pass | 22.00 | -0.15 | 1.72 | 3.90 | 7.98 |
| 5710MHz Straddle 5.47-5.725GHz | Pass | 22.00 | 0.13 | 1.94 | 4.14 | 7.98 |
| QPSK,10M_Nss1_2TX | - | - | - | - | - | - |
| 5725MHz Straddle 5.725-5.85GHz | Pass | 22.00 | 0.05 | -3.5 | 1.64 | 30.00 |
| QPSK,40M_Nss1_2TX | - | - | - | - | - | - |
| 5710MHz Straddle 5.725-5.85GHz | Pass | 22.00 | -10.81 | -9.35 | -7.01 | 30.00 |

**DG** = Directional Gain; **Port X** = Port X output power

**QPSK,10M_Nss1_2TX** **AV Power**

**5250MHz**

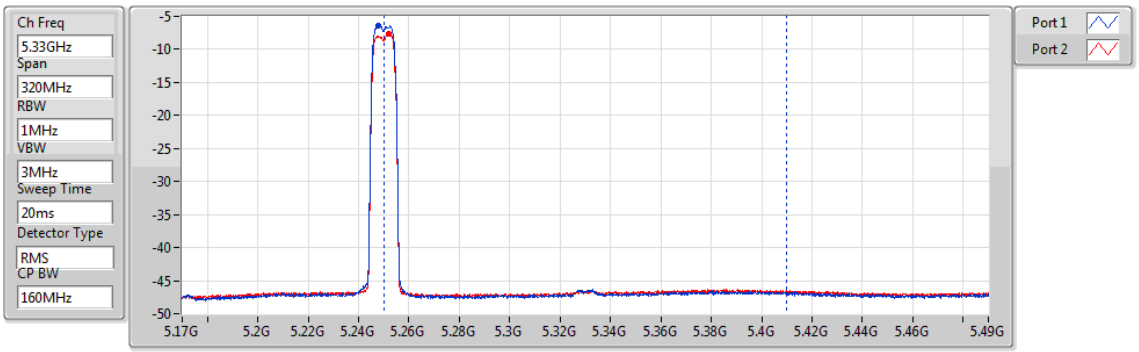



Sum=Total Power
PX=Port X

| Sum(dBm) | P1(dBm) | P2(dBm) |
|---|---|---|
| 1.38 | -0.93 | -2.47 |

**QPSK,10M_Nss1_2TX** **AV Power**

**5250MHz**

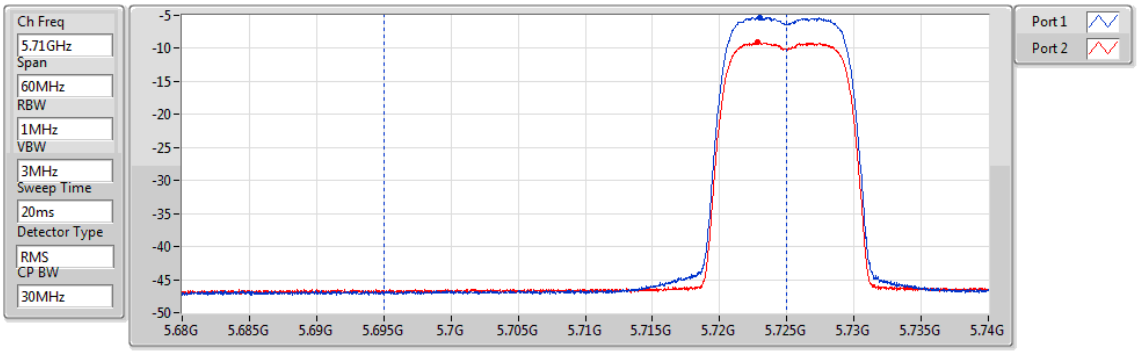



Sum=Total Power
PX=Port X

| Sum(dBm) | P1(dBm) | P2(dBm) |
|---|---|---|
| 1.74 | -0.72 | -1.89 |

**QPSK,10M_Nss1_2TX** **AV Power**

**5725MHz Straddle 5.47-5.725GHz**

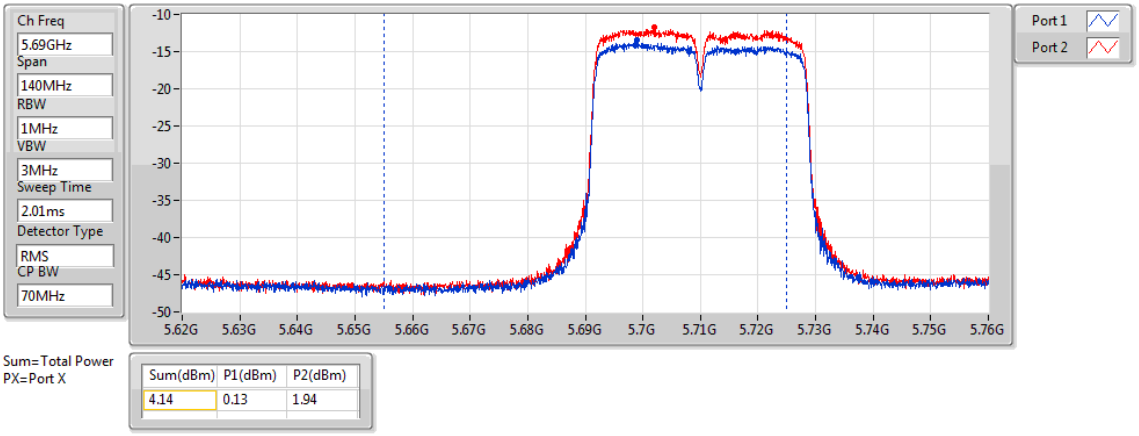



Sum=Total Power
PX=Port X

| Sum(dBm) | P1(dBm) | P2(dBm) |
|---|---|---|
| 1.87 | 0.36 | -3.45 |

**QPSK,40M_Nss1_2TX** **AV Power**

**5710MHz Straddle 5.47-5.725GHz**

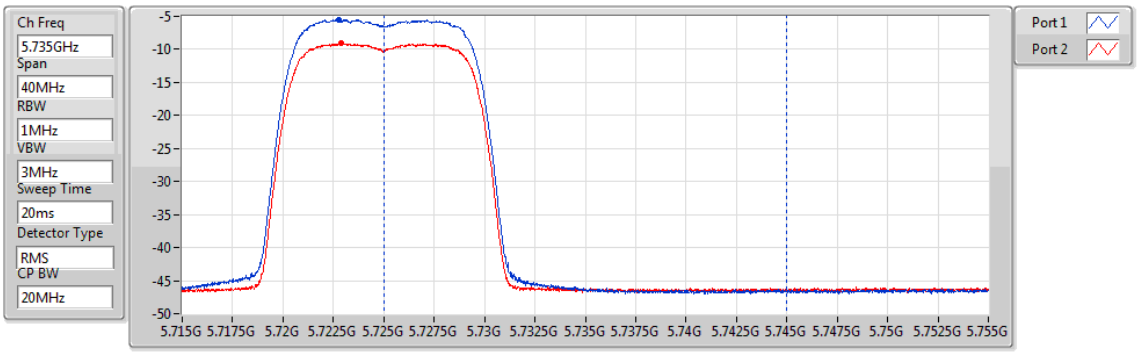



Sum=Total Power
PX=Port X

| Sum(dBm) | P1(dBm) | P2(dBm) |
|---|---|---|
| 4.14 | 0.13 | 1.94 |

**QPSK,10M_Nss1_2TX** **AV Power**

**5725MHz Straddle 5.725-5.85GHz**

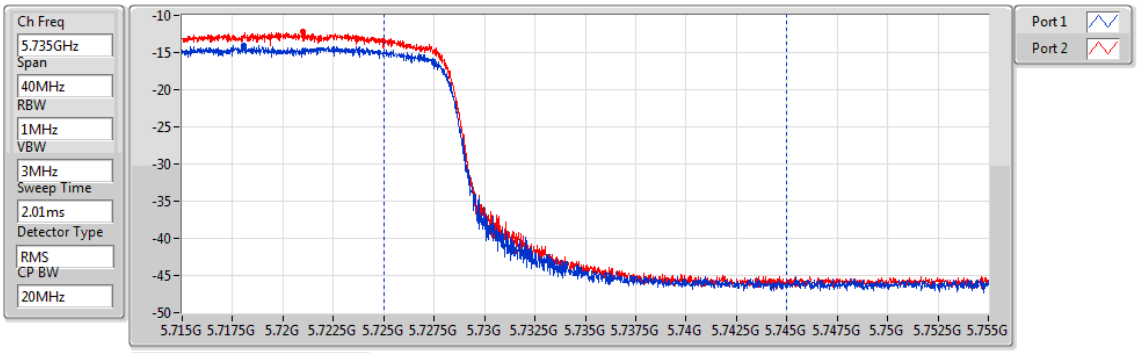



Sum=Total Power
PX=Port X

| Sum(dBm) | P1(dBm) | P2(dBm) |
|---|---|---|
| 1.64 | 0.05 | -3.50 |

**QPSK,40M_Nss1_2TX** **AV Power**

**5710MHz Straddle 5.725-5.85GHz**




Sum=Total Power
PX=Port X

| Sum(dBm) | P1(dBm) | P2(dBm) |
|---|---|---|
| -7.01 | -10.81 | -9.35 |

**Summary**

| Mode | PD (dBm/RBW) | EIRP PD (dBm/RBW) |
|---|---|---|
| QPSK,10M_Nss1_2TX | - | - |
| 5.15-5.25GHz | -5.87 | 16.13 |
| 5.25-5.35GHz | -5.16 | 16.84 |
| QPSK,40M_Nss1_2TX | - | - |
| 5.25-5.35GHz | -12.39 | 9.61 |
| QPSK,10M_Nss1_2TX | - | - |
| 5.47-5.725GHz | -5.02 | 16.98 |
| QPSK,40M_Nss1_2TX | - | - |
| 5.47-5.725GHz | -11.6 | 10.40 |
| QPSK,10M_Nss1_2TX | - | - |
| 5.725-5.85GHz | -6.99 | 15.01 |
| QPSK,40M_Nss1_2TX | - | - |
| 5.725-5.85GHz | -14.2 | 7.80 |

**RBW** = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

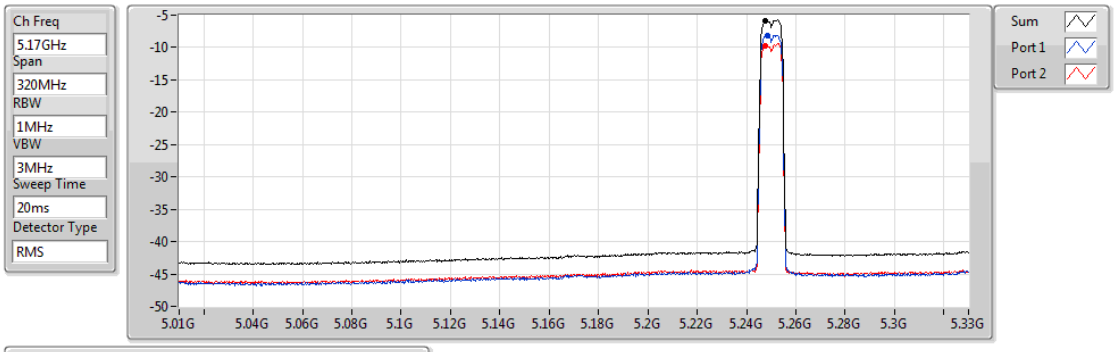
## Result

| Mode | Result | DG (dBi) | Port 1 (dBm/RBW) | Port 2 (dBm/RBW) | PD (dBm/RBW) | PD Limit (dBm/RBW) |
|---|---|---|---|---|---|---|
| QPSK,10M_Nss1_2TX | - | - | - | - | - | - |
| 5250MHz | Pass | 22.00 | -8.14 | -9.67 | -5.87 | 17.00 |
| 5250MHz | Pass | 22.00 | -7.9 | -9.26 | -5.52 | -5.00 |
| 5255MHz | Pass | 22.00 | -7.6 | -8.64 | -5.16 | -5.00 |
| 5300MHz | Pass | 22.00 | -12.14 | -14.08 | -10.05 | -5.00 |
| 5340MHz | Pass | 22.00 | -11.33 | -12.96 | -9.11 | -5.00 |
| QPSK,40M_Nss1_2TX | - | - | - | - | - | - |
| 5270MHz | Pass | 22.00 | -16.09 | -15.67 | -12.88 | -5.00 |
| 5310MHz | Pass | 22.00 | -15.93 | -14.86 | -12.39 | -5.00 |
| QPSK,10M_Nss1_2TX | - | - | - | - | - | - |
| 5480MHz | Pass | 22.00 | -12.19 | -13.77 | -9.92 | -5.00 |
| 5595MHz | Pass | 22.00 | -7.23 | -10.17 | -5.56 | -5.00 |
| 5715MHz | Pass | 22.00 | -6.58 | -10.13 | -5.02 | -5.00 |
| 5725MHz Straddle 5.47-5.725GHz | Pass | 22.00 | -6.88 | -10.63 | -5.37 | -5.00 |
| QPSK,40M_Nss1_2TX | - | - | - | - | - | - |
| 5510MHz | Pass | 22.00 | -16.88 | -16.75 | -13.83 | -5.00 |
| 5550MHz | Pass | 22.00 | -16.55 | -15.77 | -13.16 | -5.00 |
| 5670MHz | Pass | 22.00 | -16.07 | -14.12 | -12.03 | -5.00 |
| 5710MHz Straddle 5.47-5.725GHz | Pass | 22.00 | -15.61 | -13.72 | -11.60 | -5.00 |
| QPSK,10M_Nss1_2TX | - | - | - | - | - | - |
| 5725MHz Straddle 5.725-5.85GHz | Pass | 22.00 | -8.59 | -12.08 | -6.99 | 30.00 |
| QPSK,40M_Nss1_2TX | - | - | - | - | - | - |
| 5710MHz Straddle 5.725-5.85GHz | Pass | 22.00 | -18.1 | -16.38 | -14.20 | 30.00 |

**DG** = Directional Gain; **RBW** = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
**PD** = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

**QPSK,10M_Nss1_2TX** **PSD**

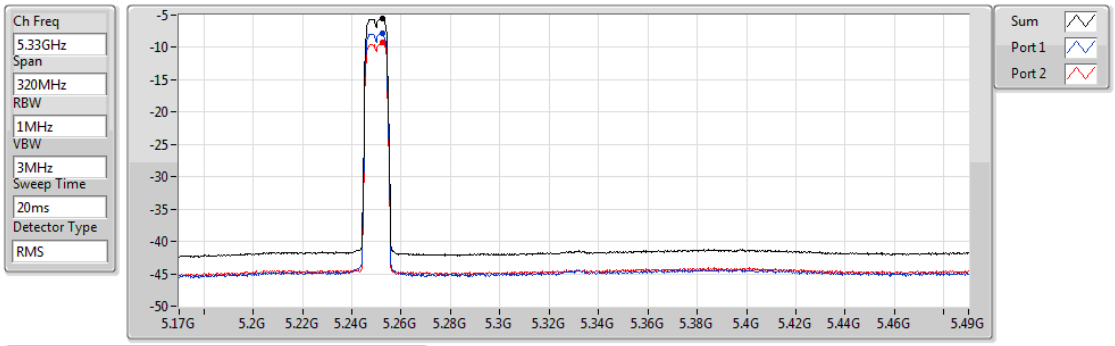
**5250MHz**




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -5.87 | -5.87 | -8.14 | -9.67 |

**QPSK,10M_Nss1_2TX** **PSD**

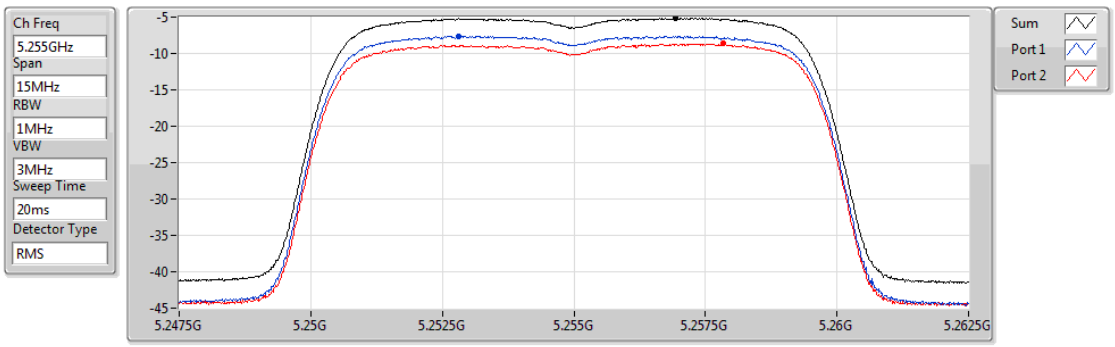
**5250MHz**




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -5.52 | -5.52 | -7.90 | -9.26 |

**QPSK,10M_Nss1_2TX** **PSD**

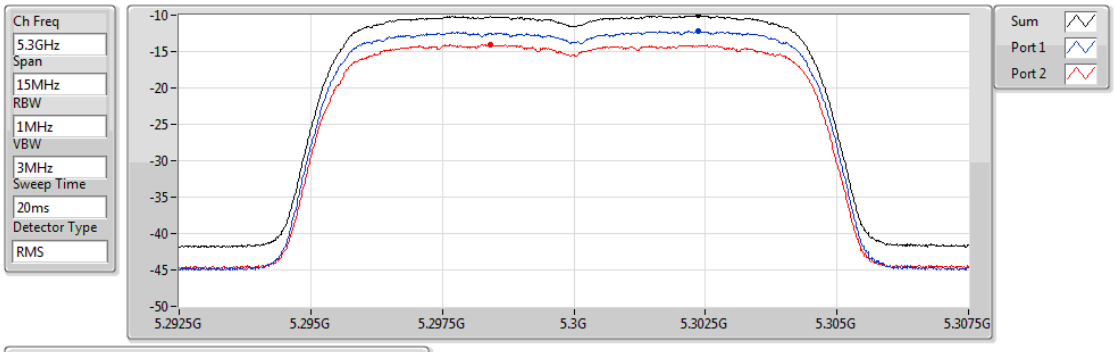
**5255MHz**




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -5.16 | -5.16 | -7.60 | -8.64 |

**QPSK,10M_Nss1_2TX** **PSD**

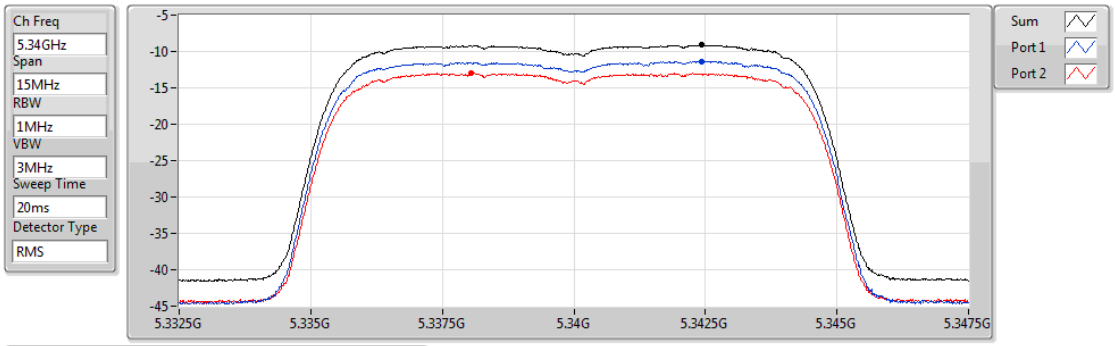
**5300MHz**




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -10.05 | -10.05 | -12.14 | -14.08 |

**QPSK,10M_Nss1_2TX** **PSD**

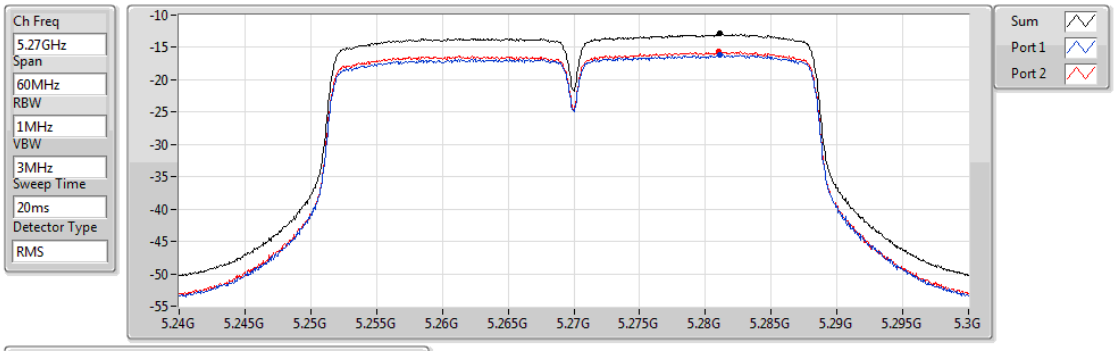
**5340MHz**




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -9.11 | -9.11 | -11.33 | -12.96 |

**QPSK,40M_Nss1_2TX** **PSD**

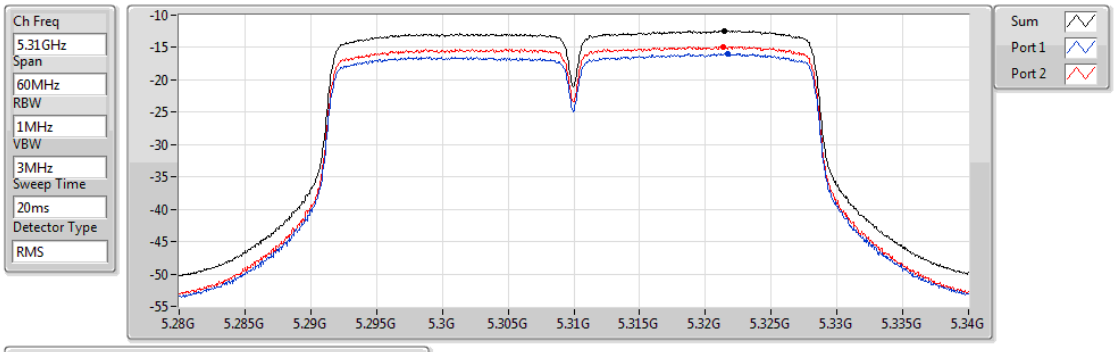
**5270MHz**




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -12.88 | -12.88 | -16.09 | -15.67 |

**QPSK,40M_Nss1_2TX** **PSD**

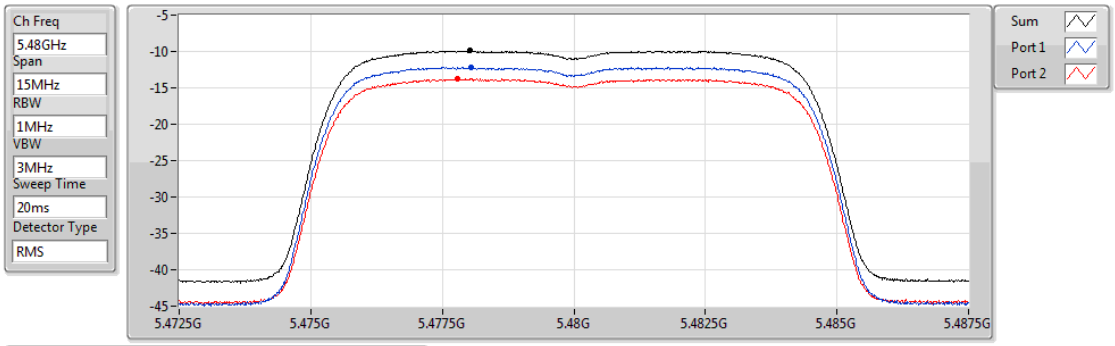
**5310MHz**




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -12.39 | -12.39 | -15.93 | -14.86 |

**QPSK,10M_Nss1_2TX** **PSD**

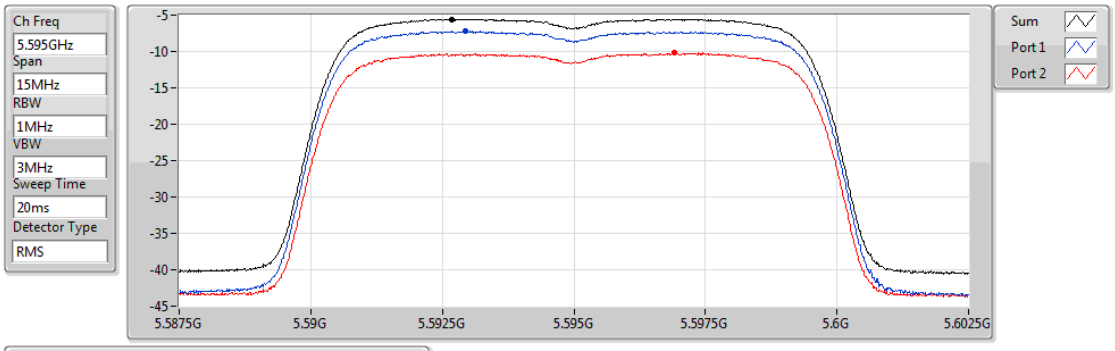
**5480MHz**




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -9.92 | -9.92 | -12.19 | -13.77 |

**QPSK,10M_Nss1_2TX** **PSD**

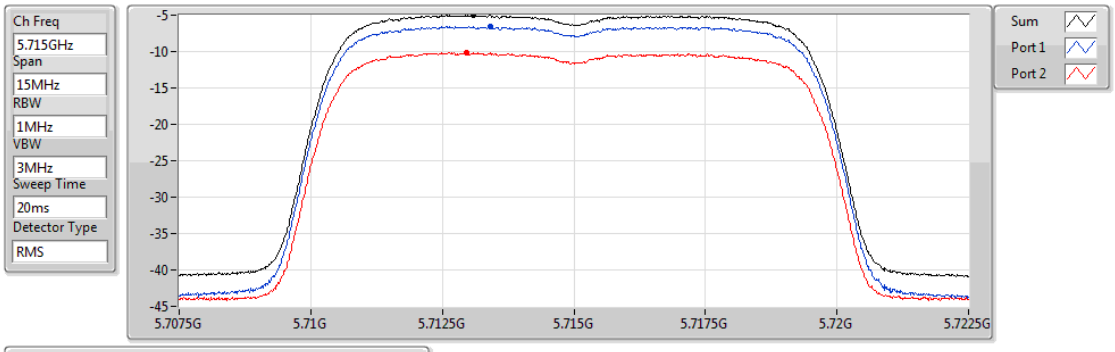
**5595MHz**




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -5.56 | -5.56 | -7.23 | -10.17 |

**QPSK,10M_Nss1_2TX** **PSD**

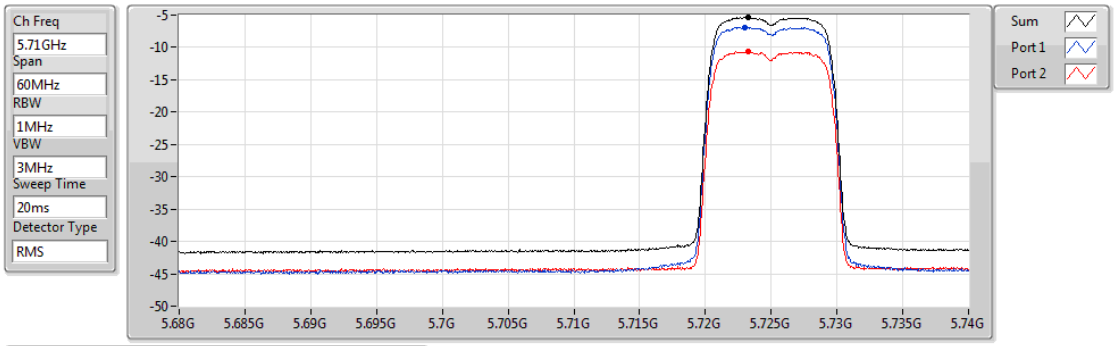
**5715MHz**




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -5.02 | -5.02 | -6.58 | -10.13 |

**QPSK,10M_Nss1_2TX** **PSD**

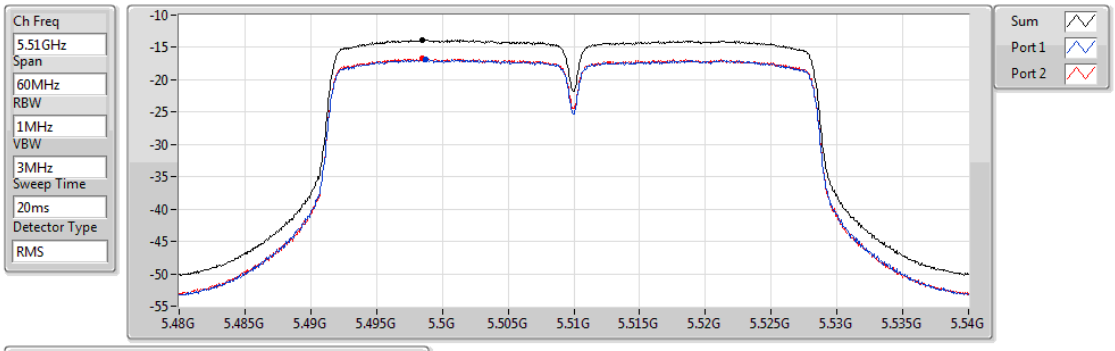
**5725MHz Straddle 5.47-5.725GHz**




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -5.37 | -5.37 | -6.88 | -10.63 |

**QPSK,40M_Nss1_2TX** **PSD**

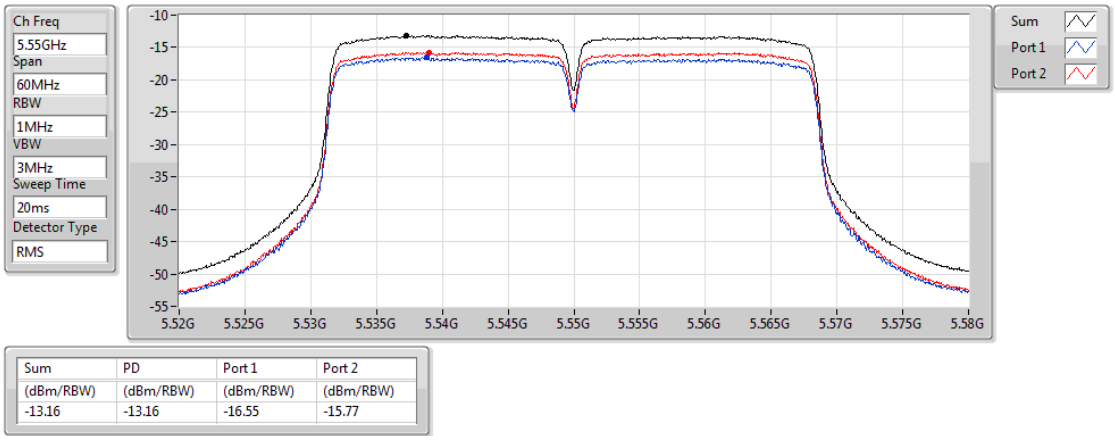
**5510MHz**




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -13.83 | -13.83 | -16.88 | -16.75 |

**QPSK,40M_Nss1_2TX** **PSD**

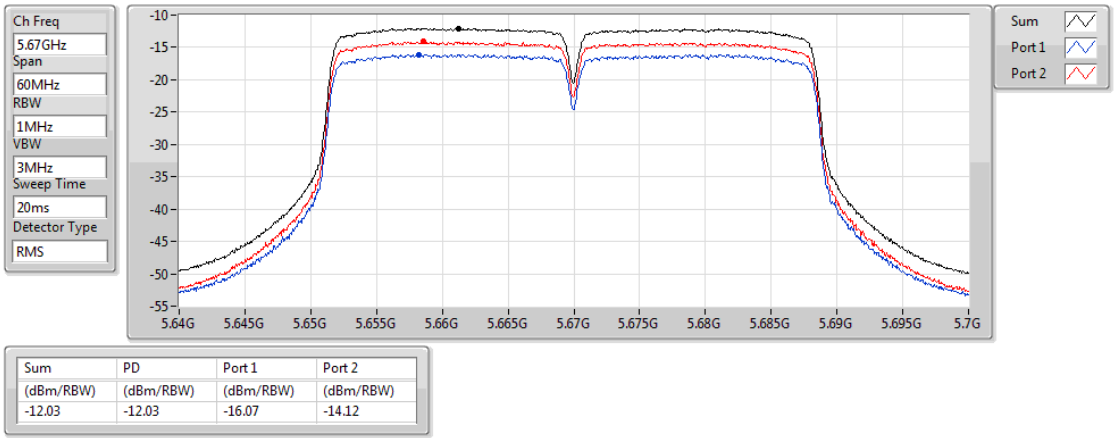
**5550MHz**




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -13.16 | -13.16 | -16.55 | -15.77 |

**QPSK,40M_Nss1_2TX** **PSD**

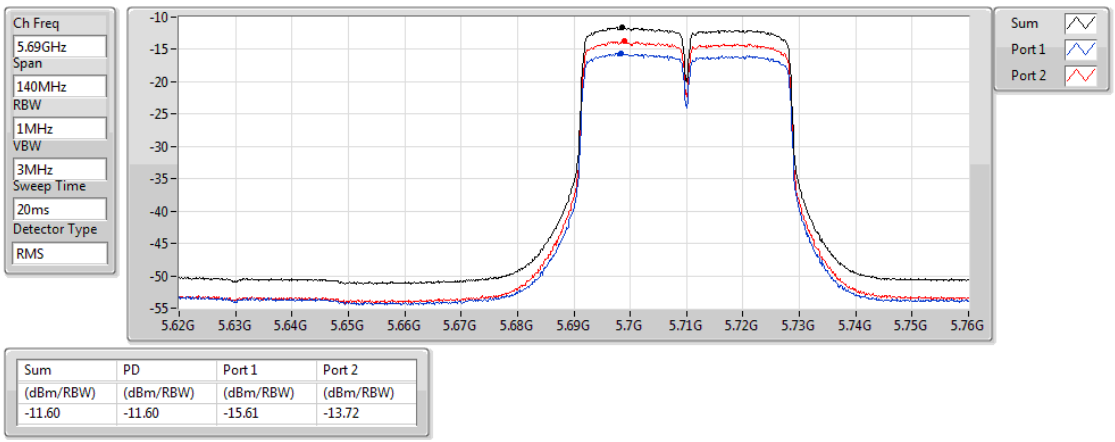
**5670MHz**




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -12.03 | -12.03 | -16.07 | -14.12 |

**QPSK,40M_Nss1_2TX** **PSD**

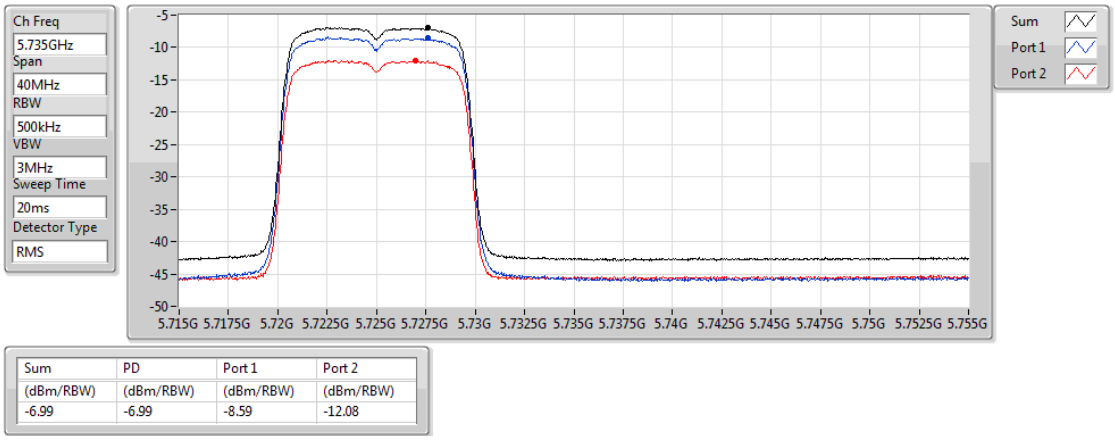
**5710MHz Straddle 5.47-5.725GHz**




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -11.60 | -11.60 | -15.61 | -13.72 |

**QPSK,10M_Nss1_2TX** **PSD**

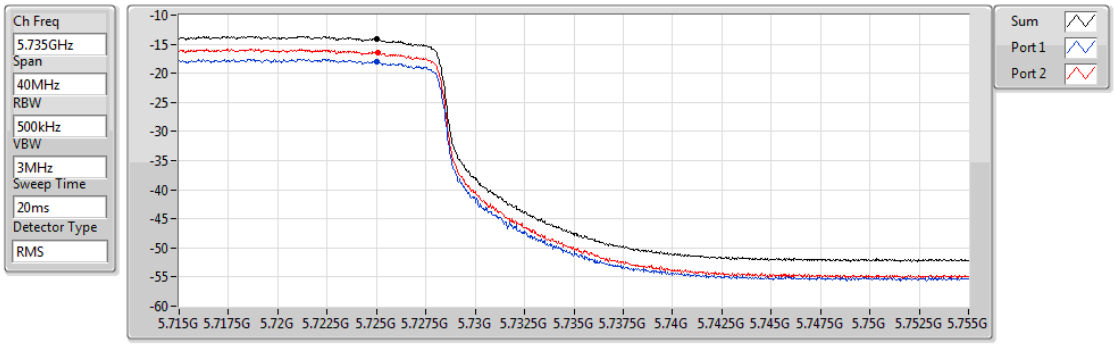
**5725MHz Straddle 5.725-5.85GHz**




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -6.99 | -6.99 | -8.59 | -12.08 |

**QPSK,40M_Nss1_2TX** **PSD**

**5710MHz Straddle 5.725-5.85GHz**



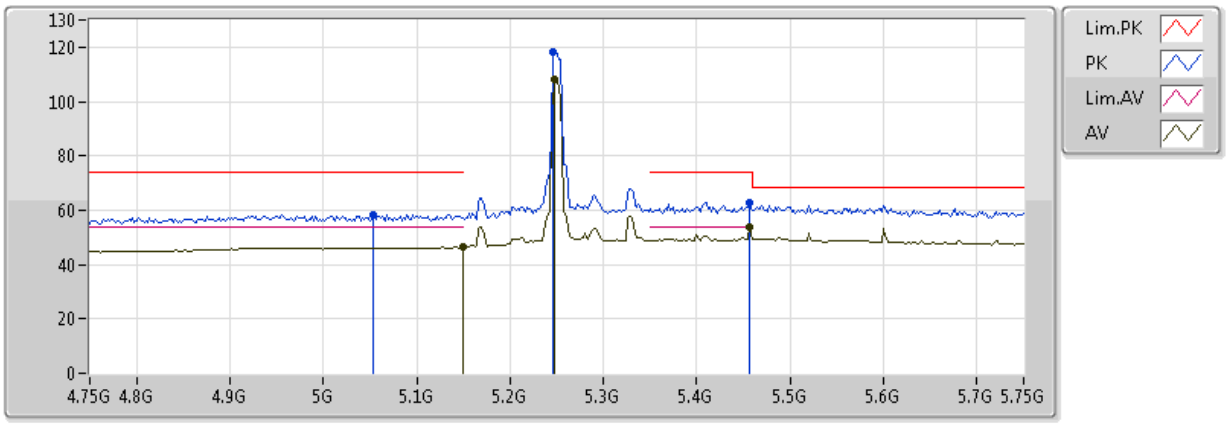

| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -14.20 | -14.20 | -18.10 | -16.38 |

## Summary

| Mode | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Factor (dB) | Dist (m) | Pol. (H/V) | Azimuth (°) | Height (m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QPSK,10M_Nss1_2TX | - | - | - | - | - | - | - | - | - | - | - | - |
| 5.47-5.725GHz | Pass | AV | 5.402G | 53.97 | 54.00 | -0.03 | 9.44 | 3 | H | 87 | 1.68 | - |

## QPSK,10M_Nss1_2TX

## 5250MHz_TX

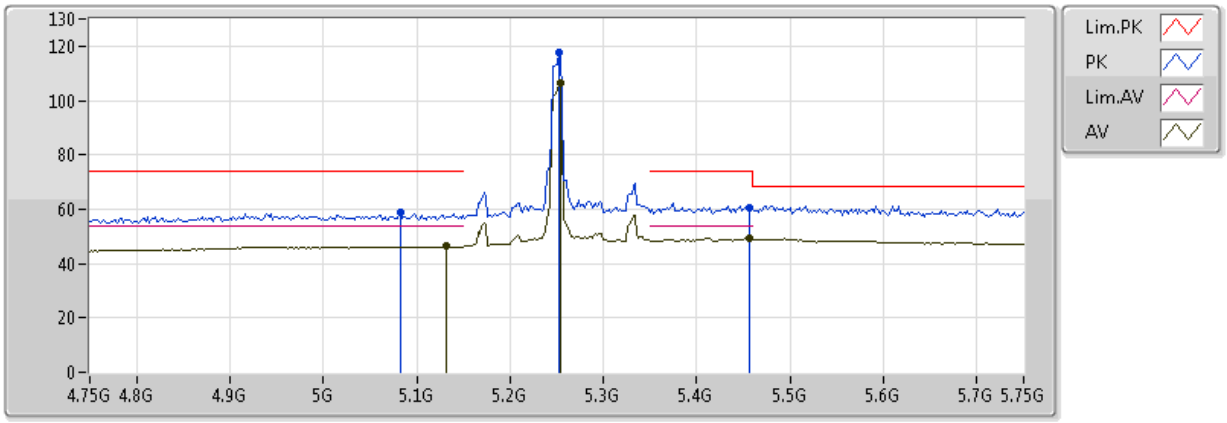



20170330
EUT Z 2TX Non-TXBF
setting 15
02-L-2-10

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 5.149995G | 46.46 | 54.00 | -7.54 | 8.93 | 3 | V | 86 | 1.59 | - |
| AV | 5.248G | 107.93 | Inf | -Inf | 9.15 | 3 | V | 86 | 1.59 | - |
| AV | 5.456G | 53.56 | 54.00 | -0.44 | 9.58 | 3 | V | 86 | 1.59 | - |
| PK | 5.054G | 58.46 | 74.00 | -15.54 | 8.68 | 3 | V | 86 | 1.59 | - |
| PK | 5.246G | 118.28 | Inf | -Inf | 9.15 | 3 | V | 86 | 1.59 | - |
| PK | 5.456G | 62.66 | 74.00 | -11.34 | 9.58 | 3 | V | 86 | 1.59 | - |

## QPSK,10M_Nss1_2TX

## 5250MHz_TX

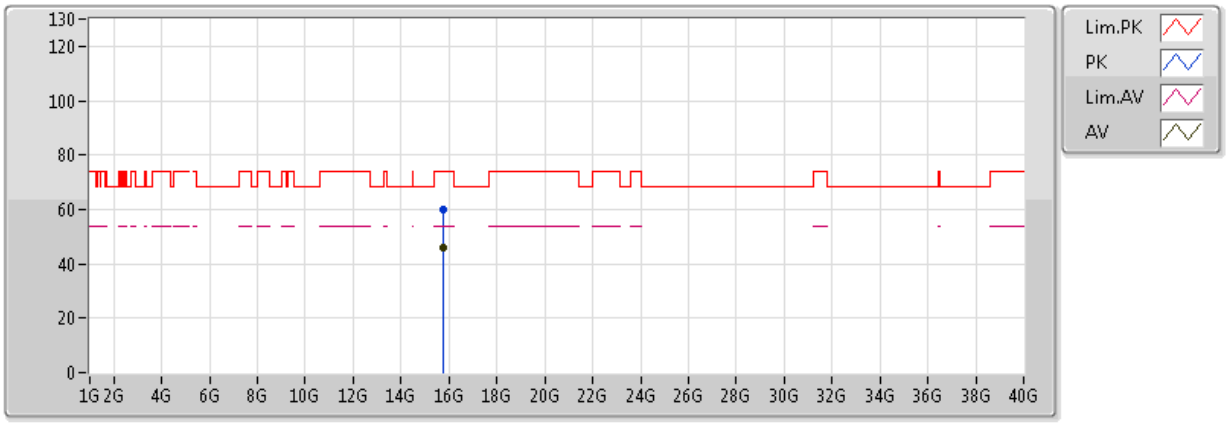



20170330
EUT Z 2TX Non-TXBF
setting 15
02-L-2-10

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 5.132G | 46.33 | 54.00 | -7.67 | 8.88 | 3 | H | 88 | 1.67 | - |
| AV | 5.254G | 106.67 | Inf | -Inf | 9.16 | 3 | H | 88 | 1.67 | - |
| AV | 5.456G | 49.42 | 54.00 | -4.58 | 9.58 | 3 | H | 88 | 1.67 | - |
| PK | 5.082G | 58.72 | 74.00 | -15.28 | 8.75 | 3 | H | 88 | 1.67 | - |
| PK | 5.252G | 117.65 | Inf | -Inf | 9.16 | 3 | H | 88 | 1.67 | - |
| PK | 5.456G | 60.77 | 74.00 | -13.23 | 9.58 | 3 | H | 88 | 1.67 | - |

## QPSK,10M_Nss1_2TX

## 5250MHz_TX

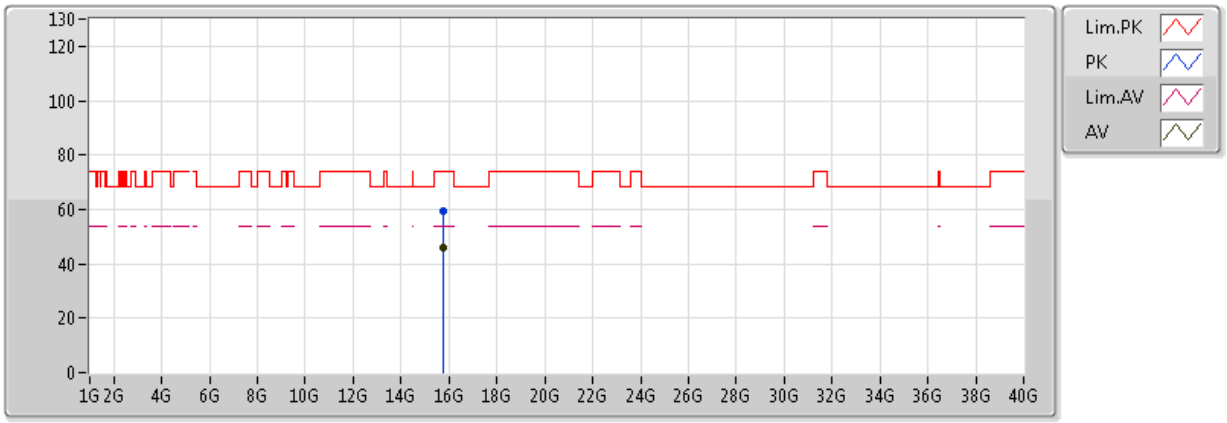



20170330
EUT Z 2TX Non-TXBF
setting 15
02-L-2

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 15.7493G | 46.03 | 54.00 | -7.97 | 17.57 | 3 | V | 241 | 1.29 | - |
| PK | 15.74837G | 60.00 | 74.00 | -14.00 | 17.58 | 3 | V | 241 | 1.29 | - |

## QPSK,10M_Nss1_2TX

## 5250MHz_TX

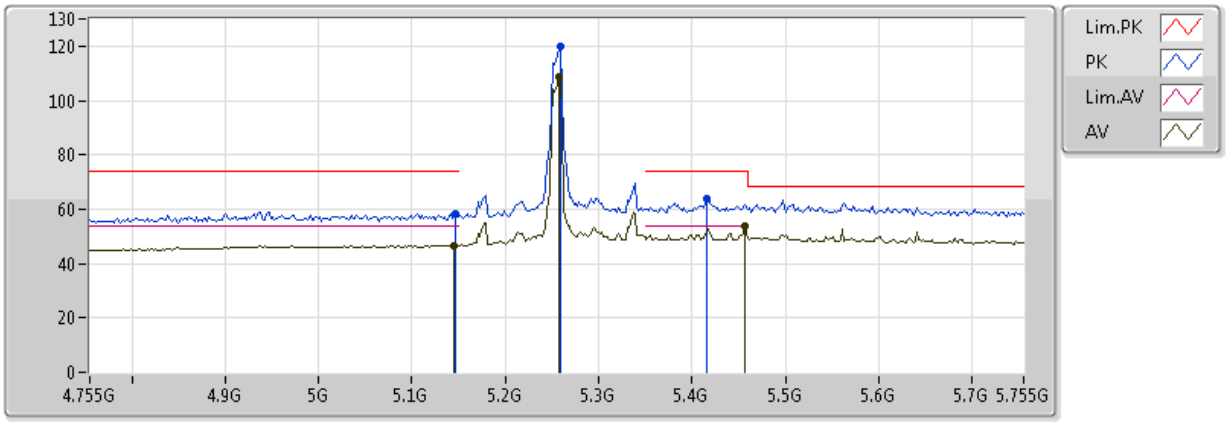



20170330
EUT Z 2TX Non-TXBF
setting 15
02-L-2

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 15.7511G | 46.01 | 54.00 | -7.99 | 17.57 | 3 | H | 23 | 1.61 | - |
| PK | 15.75163G | 59.20 | 74.00 | -14.80 | 17.57 | 3 | H | 23 | 1.61 | - |

## QPSK,10M_Nss1_2TX

## 5255MHz_TX

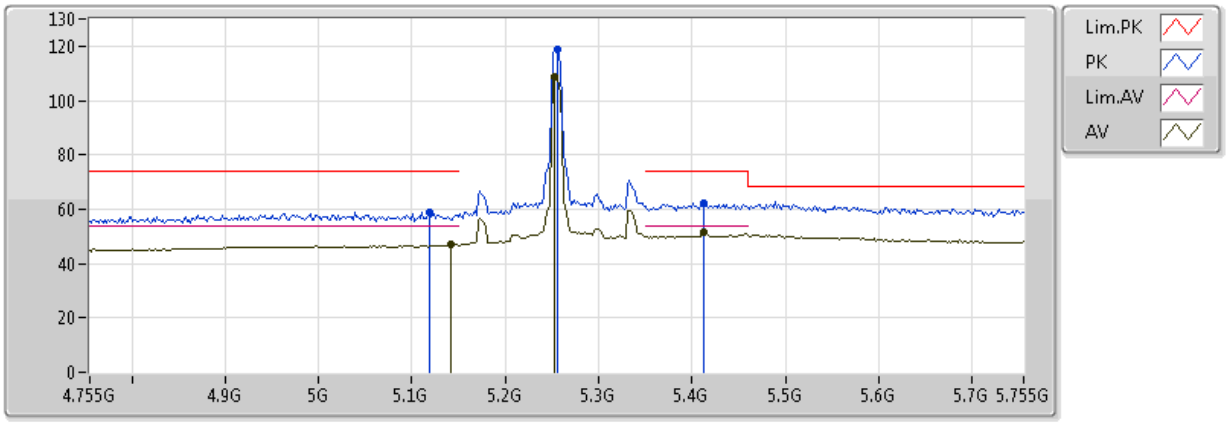



20170330
EUT Z 2TX Non-TXBF
setting 15.5
02-L-2-10

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 5.145G | 46.77 | 54.00 | -7.23 | 8.92 | 3 | V | 84 | 1.53 | - |
| AV | 5.257G | 108.61 | Inf | -Inf | 9.17 | 3 | V | 84 | 1.53 | - |
| AV | 5.457G | 53.67 | 54.00 | -0.33 | 9.58 | 3 | V | 84 | 1.53 | - |
| PK | 5.147G | 58.20 | 74.00 | -15.80 | 8.92 | 3 | V | 84 | 1.53 | - |
| PK | 5.259G | 119.67 | Inf | -Inf | 9.17 | 3 | V | 84 | 1.53 | - |
| PK | 5.415G | 64.15 | 74.00 | -9.85 | 9.47 | 3 | V | 84 | 1.53 | - |

## QPSK,10M_Nss1_2TX

## 5255MHz_TX

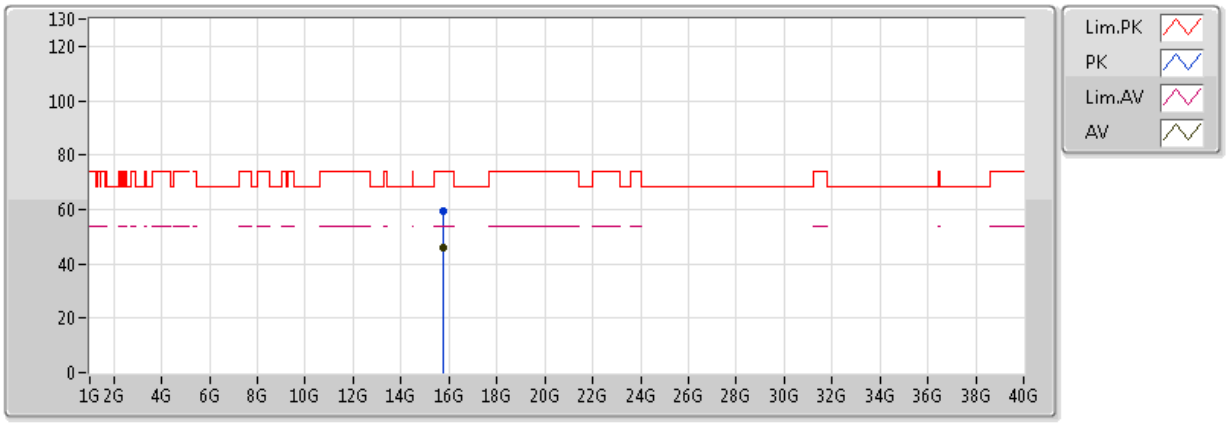



20170330
EUT Z 2TX Non-TXBF
setting 15.5
02-L-2-10

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 5.141G | 46.84 | 54.00 | -7.16 | 8.91 | 3 | H | 88 | 1.70 | - |
| AV | 5.253G | 108.45 | Inf | -Inf | 9.16 | 3 | H | 88 | 1.70 | - |
| AV | 5.413G | 51.44 | 54.00 | -2.56 | 9.46 | 3 | H | 88 | 1.70 | - |
| PK | 5.119G | 59.08 | 74.00 | -14.92 | 8.85 | 3 | H | 88 | 1.70 | - |
| PK | 5.255G | 118.75 | Inf | -Inf | 9.16 | 3 | H | 88 | 1.70 | - |
| PK | 5.413G | 62.04 | 74.00 | -11.96 | 9.46 | 3 | H | 88 | 1.70 | - |

## QPSK,10M_Nss1_2TX

## 5255MHz_TX

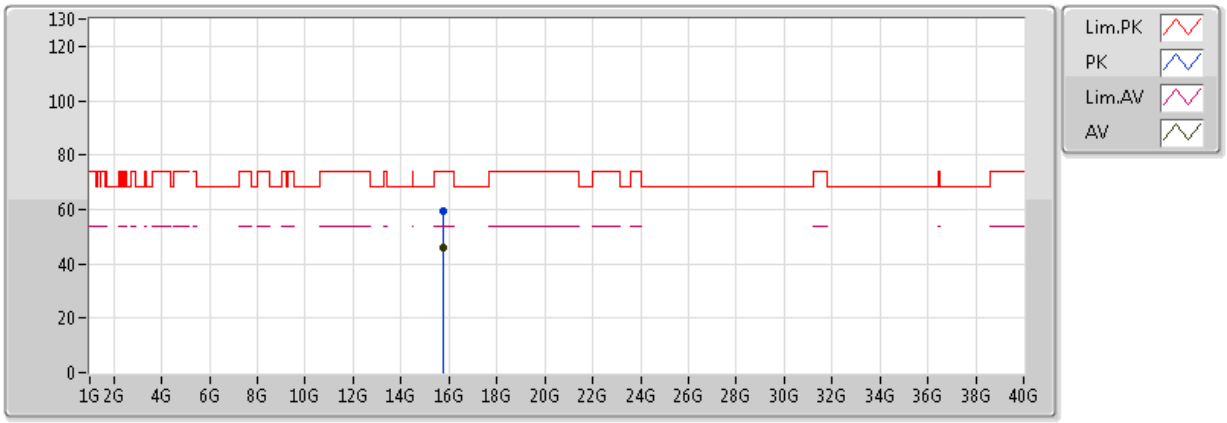



20170330
EUT Z 2TX Non-TXBF
setting 15.5
02-L-2

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 15.76539G | 45.93 | 54.00 | -8.07 | 17.53 | 3 | V | 42 | 2.22 | - |
| PK | 15.76566G | 59.18 | 74.00 | -14.82 | 17.53 | 3 | V | 42 | 2.22 | - |

## QPSK,10M_Nss1_2TX

## 5255MHz_TX

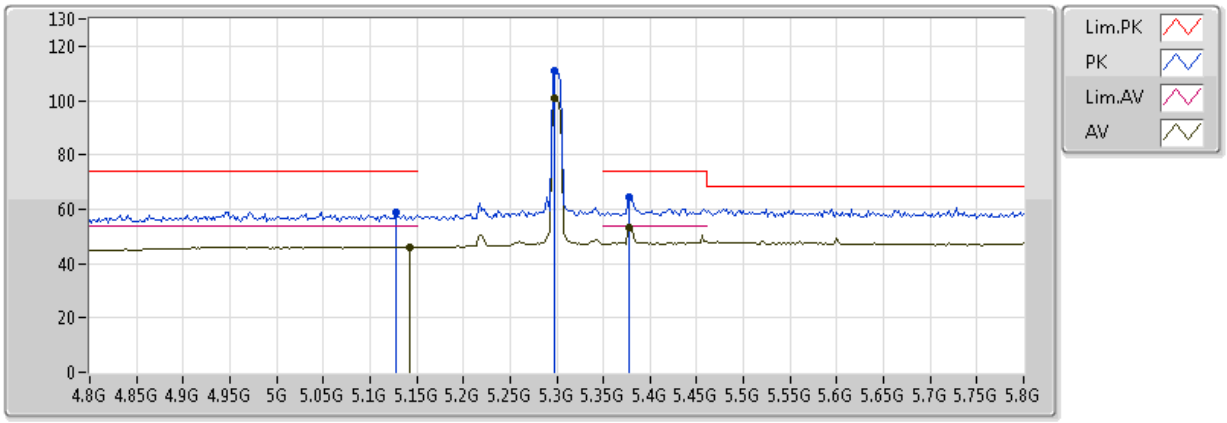



20170330
EUT Z 2TX Non-TXBF
setting 15.5
02-L-2

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 15.76743G | 46.04 | 54.00 | -7.96 | 17.53 | 3 | H | 56 | 2.28 | - |
| PK | 15.76557G | 59.56 | 74.00 | -14.44 | 17.53 | 3 | H | 56 | 2.28 | - |

## QPSK,10M_Nss1_2TX

## 5300MHz_TX

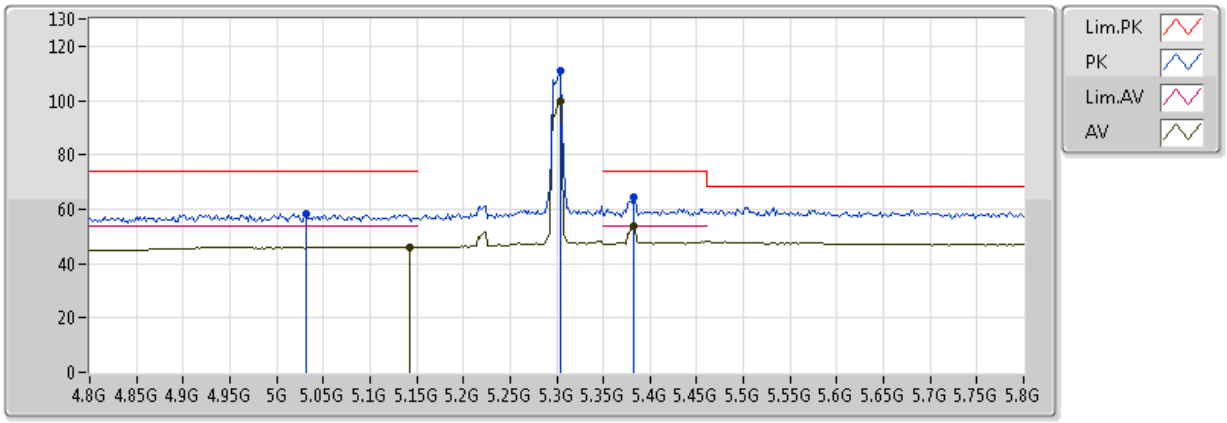



20170330
EUT Z 2TX Non-TXBF
setting 7.5
02-L-2-10

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 5.142G | 46.08 | 54.00 | -7.92 | 8.91 | 3 | V | 85 | 1.61 | - |
| AV | 5.298G | 100.76 | Inf | -Inf | 9.25 | 3 | V | 85 | 1.61 | - |
| AV | 5.378G | 53.10 | 54.00 | -0.90 | 9.39 | 3 | V | 85 | 1.61 | - |
| PK | 5.128G | 59.11 | 74.00 | -14.89 | 8.87 | 3 | V | 85 | 1.61 | - |
| PK | 5.298G | 111.07 | Inf | -Inf | 9.25 | 3 | V | 85 | 1.61 | - |
| PK | 5.378G | 64.28 | 74.00 | -9.72 | 9.39 | 3 | V | 85 | 1.61 | - |

## QPSK,10M_Nss1_2TX

## 5300MHz_TX

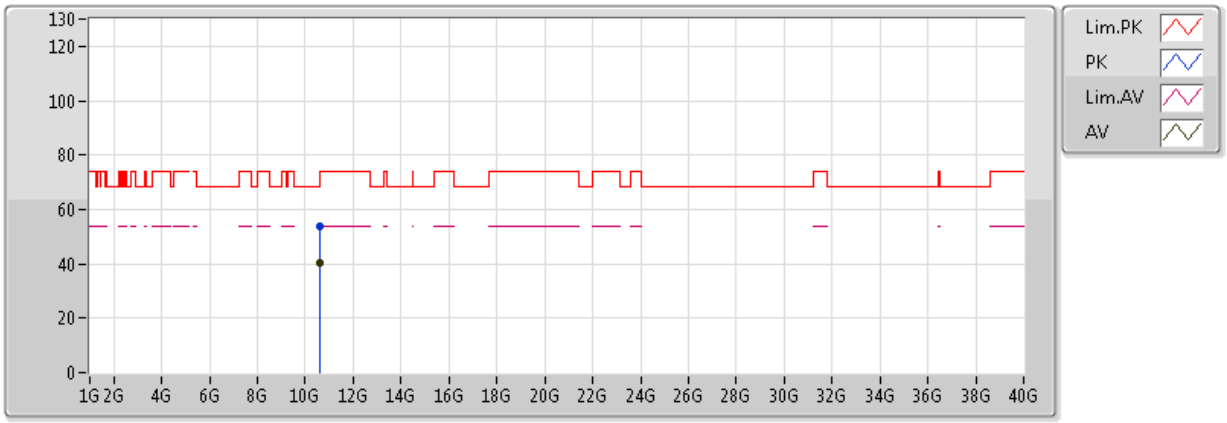



20170330
EUT Z 2TX Non-TXBF
setting 7.5
02-L-2-10

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 5.142G | 46.16 | 54.00 | -7.84 | 8.91 | 3 | H | 86 | 1.65 | - |
| AV | 5.304G | 99.64 | Inf | -Inf | 9.26 | 3 | H | 86 | 1.65 | - |
| AV | 5.382G | 53.81 | 54.00 | -0.19 | 9.40 | 3 | H | 86 | 1.65 | - |
| PK | 5.032G | 58.46 | 74.00 | -15.54 | 8.62 | 3 | H | 86 | 1.65 | - |
| PK | 5.304G | 110.72 | Inf | -Inf | 9.26 | 3 | H | 86 | 1.65 | - |
| PK | 5.382G | 64.42 | 74.00 | -9.58 | 9.40 | 3 | H | 86 | 1.65 | - |

## QPSK,10M_Nss1_2TX

## 5300MHz_TX

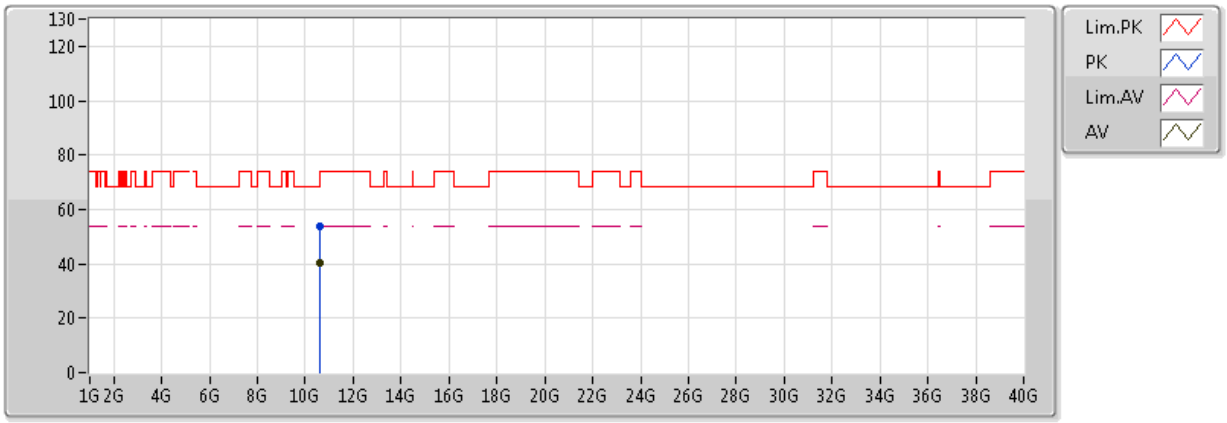



20170330
EUT Z 2TX Non-TXBF
setting 7.5
02-L-2

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 10.60056G | 40.17 | 54.00 | -13.83 | 15.92 | 3 | V | 72 | 2.10 | - |
| PK | 10.60229G | 53.59 | 74.00 | -20.41 | 15.92 | 3 | V | 72 | 2.10 | - |

## QPSK,10M_Nss1_2TX

## 5300MHz_TX

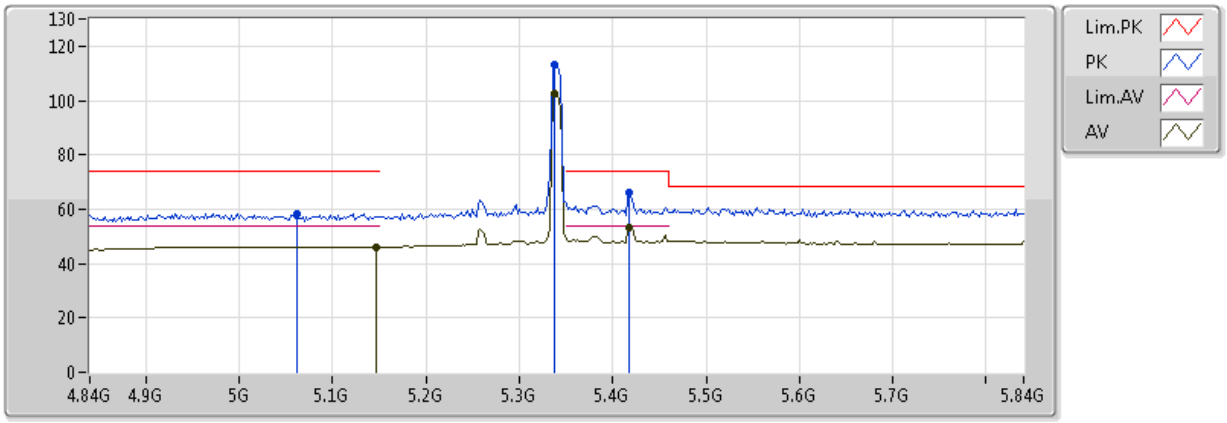



20170330
EUT Z 2TX Non-TXBF
setting 7.5
02-L-2

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 10.60208G | 40.19 | 54.00 | -13.81 | 15.92 | 3 | H | 5 | 1.56 | - |
| PK | 10.60222G | 53.81 | 74.00 | -20.19 | 15.92 | 3 | H | 5 | 1.56 | - |

## QPSK,10M_Nss1_2TX

## 5340MHz_TX

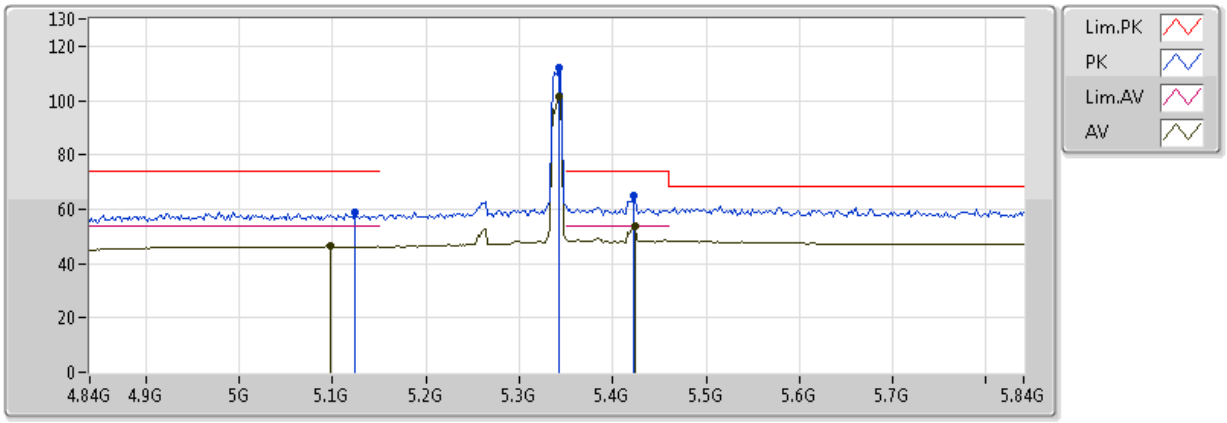



20170330
EUT Z 2TX Non-TXBF
setting 8.5
02-L-2-10

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 5.146G | 46.21 | 54.00 | -7.79 | 8.92 | 3 | V | 85 | 1.59 | - |
| AV | 5.338G | 102.53 | Inf | -Inf | 9.32 | 3 | V | 85 | 1.59 | - |
| AV | 5.418G | 53.31 | 54.00 | -0.69 | 9.48 | 3 | V | 85 | 1.59 | - |
| PK | 5.062G | 58.49 | 74.00 | -15.51 | 8.70 | 3 | V | 85 | 1.59 | - |
| PK | 5.338G | 113.12 | Inf | -Inf | 9.32 | 3 | V | 85 | 1.59 | - |
| PK | 5.418G | 66.09 | 74.00 | -7.91 | 9.48 | 3 | V | 85 | 1.59 | - |

## QPSK,10M_Nss1_2TX

## 5340MHz_TX

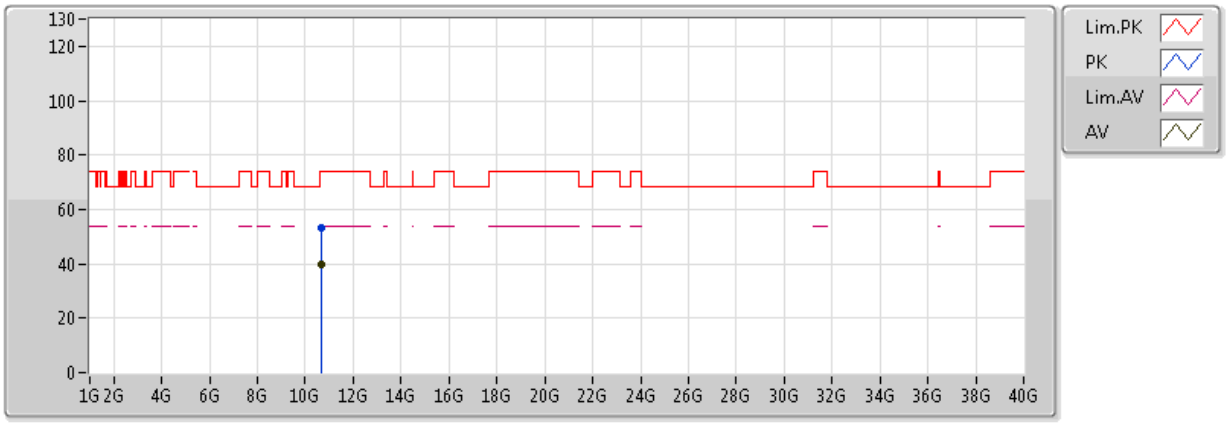



20170330
EUT Z 2TX Non-TXBF
setting 8.5
02-L-2-10

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 5.098G | 46.31 | 54.00 | -7.69 | 8.79 | 3 | H | 87 | 1.67 | - |
| AV | 5.342G | 101.70 | Inf | -Inf | 9.33 | 3 | H | 87 | 1.67 | - |
| AV | 5.424G | 53.76 | 54.00 | -0.24 | 9.49 | 3 | H | 87 | 1.67 | - |
| PK | 5.124G | 58.74 | 74.00 | -15.26 | 8.86 | 3 | H | 87 | 1.67 | - |
| PK | 5.342G | 112.14 | Inf | -Inf | 9.33 | 3 | H | 87 | 1.67 | - |
| PK | 5.422G | 65.06 | 74.00 | -8.94 | 9.49 | 3 | H | 87 | 1.67 | - |

## QPSK,10M_Nss1_2TX

## 5340MHz_TX

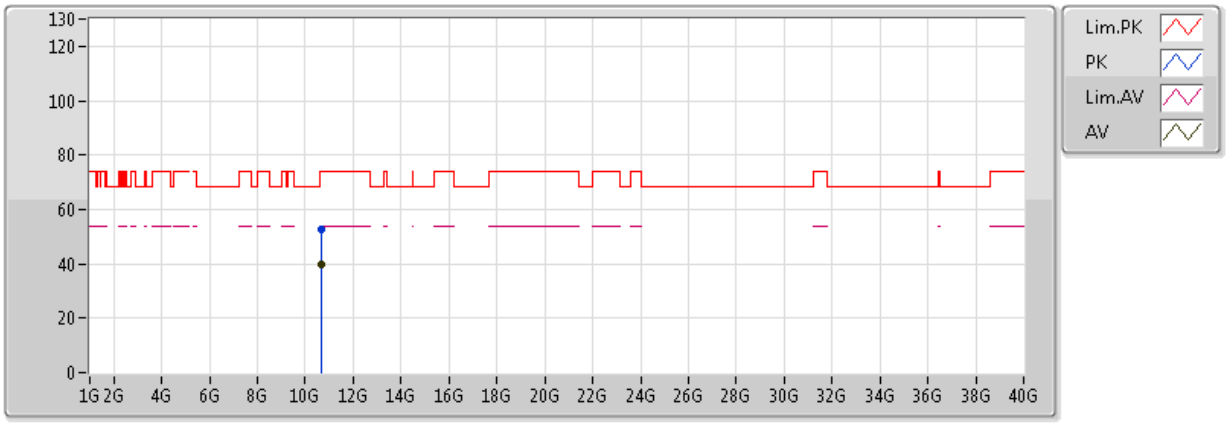



20170330
EUT Z 2TX Non-TXBF
setting 8.5
02-L-2

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 10.67959G | 39.57 | 54.00 | -14.43 | 15.90 | 3 | V | 340 | 1.48 | - |
| PK | 10.6796G | 53.26 | 74.00 | -20.74 | 15.90 | 3 | V | 340 | 1.48 | - |

## QPSK,10M_Nss1_2TX

## 5340MHz_TX

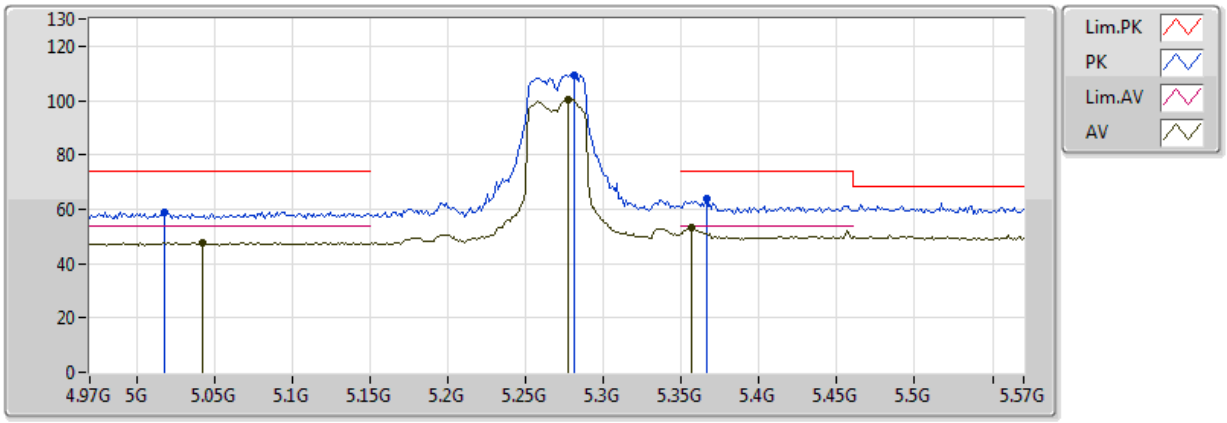



20170330
EUT Z 2TX Non-TXBF
setting 8.5
02-L-2

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 10.67758G | 39.53 | 54.00 | -14.47 | 15.90 | 3 | H | 30 | 1.69 | - |
| PK | 10.68126G | 52.91 | 74.00 | -21.09 | 15.90 | 3 | H | 30 | 1.69 | - |

## QPSK,40M_Nss1_2TX

## 5270MHz_TX

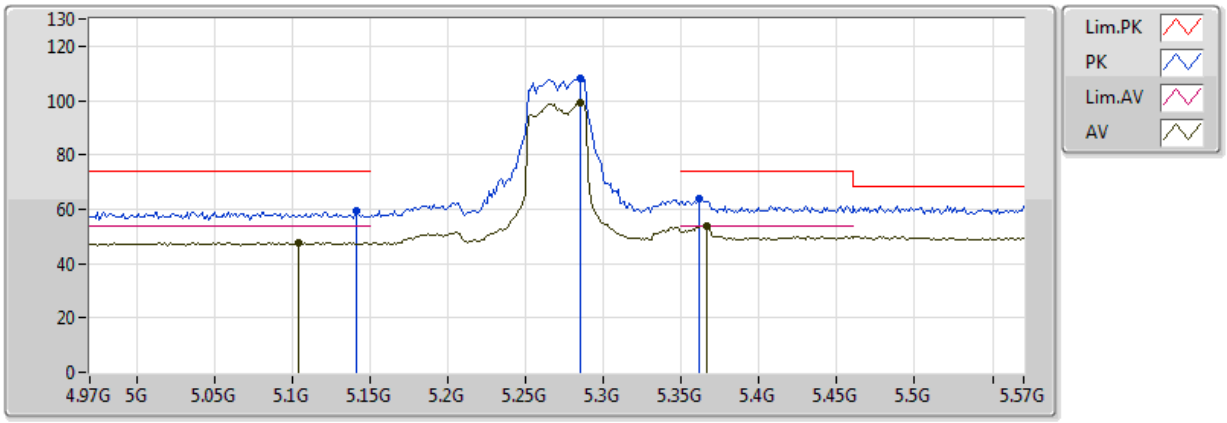



20170329
EUT Z 2TX Non-TXBF
Setting 10.5
02-L-02-10

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 5.042G | 47.64 | 54.00 | -6.36 | 8.64 | 3 | V | 89 | 1.70 | - |
| AV | 5.2772G | 100.51 | Inf | -Inf | 9.21 | 3 | V | 89 | 1.70 | - |
| AV | 5.3564G | 53.22 | 54.00 | -0.78 | 9.35 | 3 | V | 89 | 1.70 | - |
| PK | 5.018G | 59.05 | 74.00 | -14.95 | 8.58 | 3 | V | 89 | 1.70 | - |
| PK | 5.2808G | 109.54 | Inf | -Inf | 9.21 | 3 | V | 89 | 1.70 | - |
| PK | 5.366G | 63.65 | 74.00 | -10.35 | 9.37 | 3 | V | 89 | 1.70 | - |

## QPSK,40M_Nss1_2TX

## 5270MHz_TX

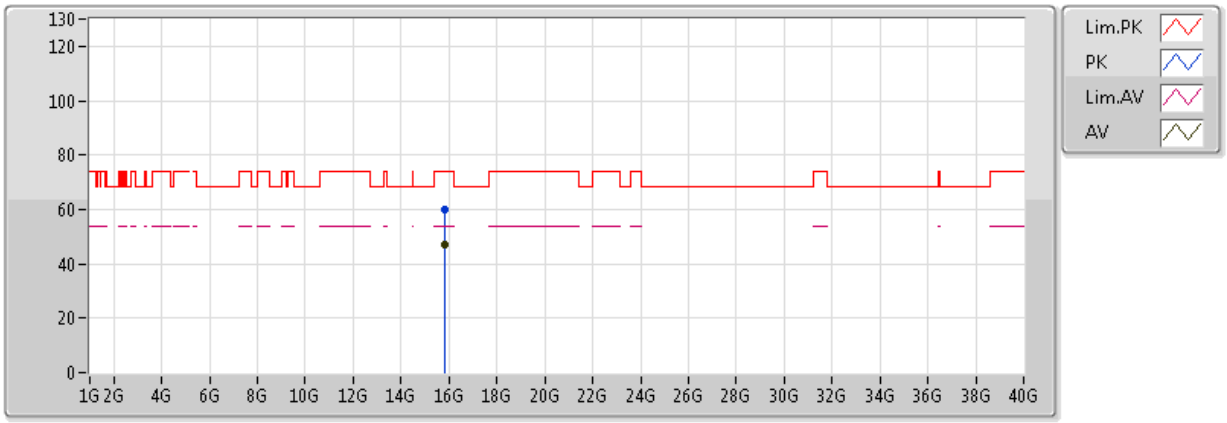



20170329
EUT Z 2TX Non-TXBF
Setting 10.5
02-L-02-10

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 5.1044G | 47.85 | 54.00 | -6.15 | 8.81 | 3 | H | 90 | 1.65 | - |
| AV | 5.2856G | 99.43 | Inf | -Inf | 9.22 | 3 | H | 90 | 1.65 | - |
| AV | 5.366G | 53.88 | 54.00 | -0.12 | 9.37 | 3 | H | 90 | 1.65 | - |
| PK | 5.1416G | 59.40 | 74.00 | -14.60 | 8.91 | 3 | H | 90 | 1.65 | - |
| PK | 5.2856G | 107.93 | Inf | -Inf | 9.22 | 3 | H | 90 | 1.65 | - |
| PK | 5.3612G | 63.80 | 74.00 | -10.20 | 9.36 | 3 | H | 90 | 1.65 | - |

## QPSK,40M_Nss1_2TX

## 5270MHz_TX

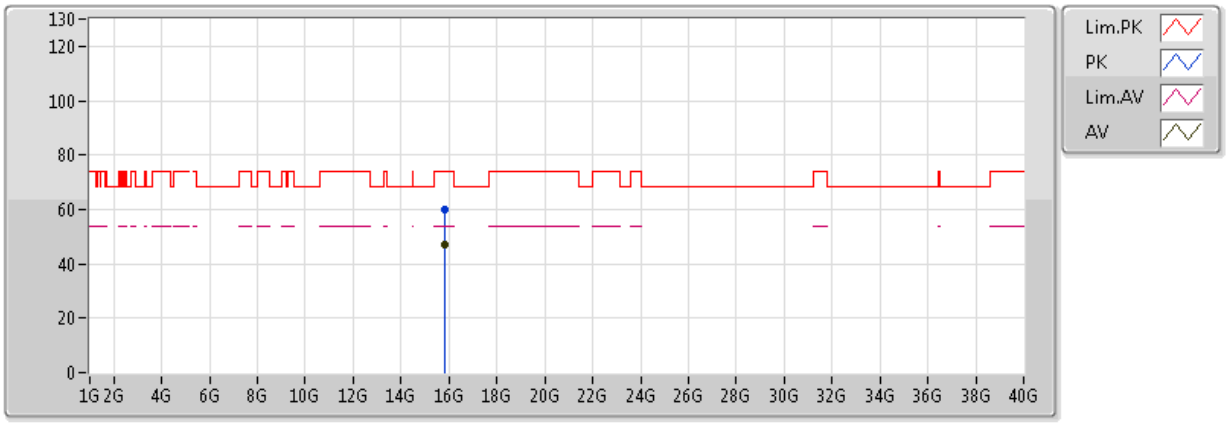



20170329
EUT Z 2TX Non-TXBF
Setting 10.5
02-L-02

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 15.81089G | 47.13 | 54.00 | -6.87 | 17.42 | 3 | V | 316 | 1.46 | - |
| PK | 15.80938G | 59.89 | 74.00 | -14.11 | 17.42 | 3 | V | 316 | 1.46 | - |

## QPSK,40M_Nss1_2TX

## 5270MHz_TX

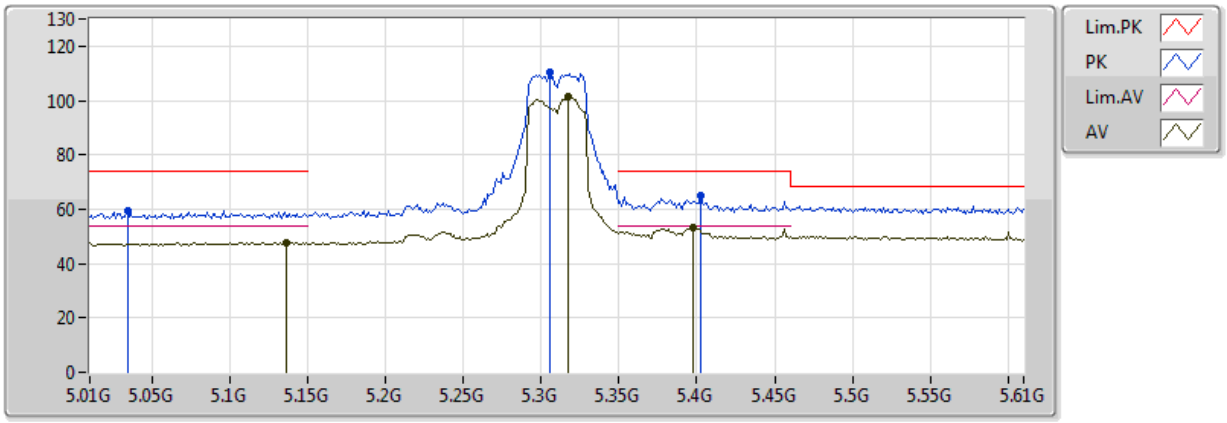



20170329
EUT Z 2TX Non-TXBF
Setting 10.5
02-L-02

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 15.80843G | 47.06 | 54.00 | -6.94 | 17.42 | 3 | H | 298 | 2.04 | - |
| PK | 15.81067G | 60.12 | 74.00 | -13.88 | 17.42 | 3 | H | 298 | 2.04 | - |

## QPSK,40M_Nss1_2TX

## 5310MHz_TX

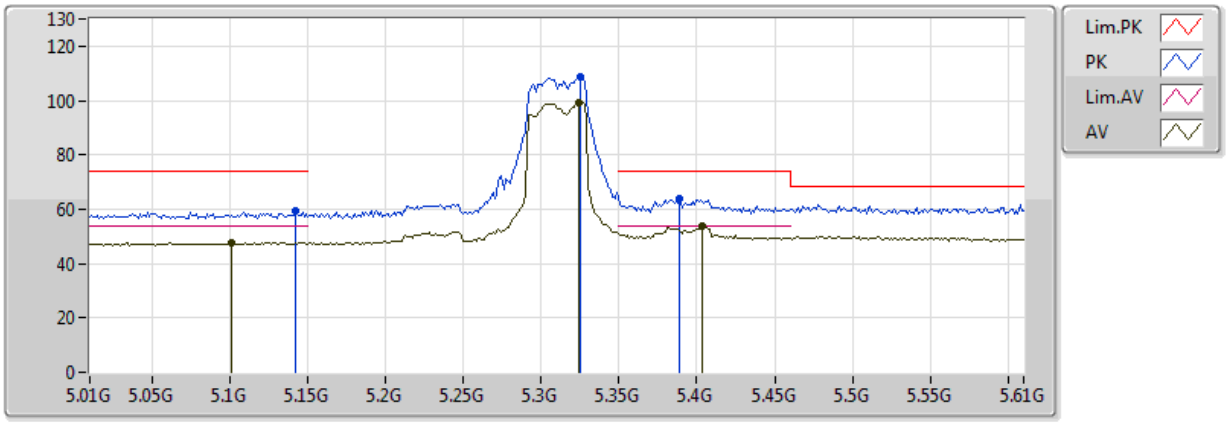



20170329
EUT Z 2TX Non-TXBF
Setting 10.5
02-L-02-10

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 5.136G | 47.78 | 54.00 | -6.22 | 8.89 | 3 | V | 89 | 1.66 | - |
| AV | 5.3172G | 101.21 | Inf | -Inf | 9.28 | 3 | V | 89 | 1.66 | - |
| AV | 5.3976G | 53.11 | 54.00 | -0.89 | 9.43 | 3 | V | 89 | 1.66 | - |
| PK | 5.034G | 59.42 | 74.00 | -14.58 | 8.62 | 3 | V | 89 | 1.66 | - |
| PK | 5.3052G | 110.53 | Inf | -Inf | 9.26 | 3 | V | 89 | 1.66 | - |
| PK | 5.4024G | 64.96 | 74.00 | -9.04 | 9.44 | 3 | V | 89 | 1.66 | - |

## QPSK,40M_Nss1_2TX

## 5310MHz_TX

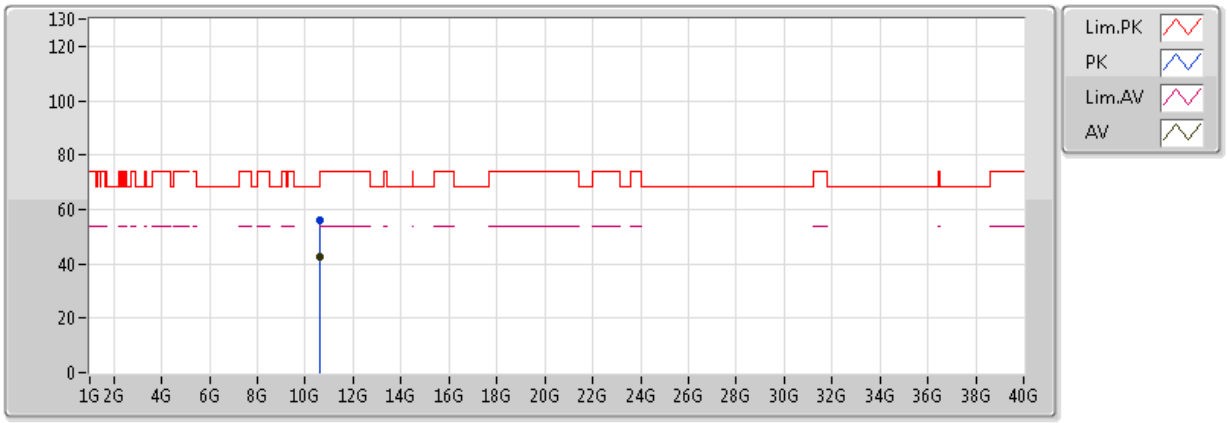



20170329
EUT Z 2TX Non-TXBF
Setting 10.5
02-L-02-10

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 5.1012G | 47.81 | 54.00 | -6.19 | 8.80 | 3 | H | 90 | 1.67 | - |
| AV | 5.3244G | 99.21 | Inf | -Inf | 9.29 | 3 | H | 90 | 1.67 | - |
| AV | 5.4036G | 53.73 | 54.00 | -0.27 | 9.44 | 3 | H | 90 | 1.67 | - |
| PK | 5.142G | 59.37 | 74.00 | -14.63 | 8.91 | 3 | H | 90 | 1.67 | - |
| PK | 5.3256G | 108.54 | Inf | -Inf | 9.30 | 3 | H | 90 | 1.67 | - |
| PK | 5.3892G | 63.74 | 74.00 | -10.26 | 9.41 | 3 | H | 90 | 1.67 | - |

## QPSK,40M_Nss1_2TX

## 5310MHz_TX

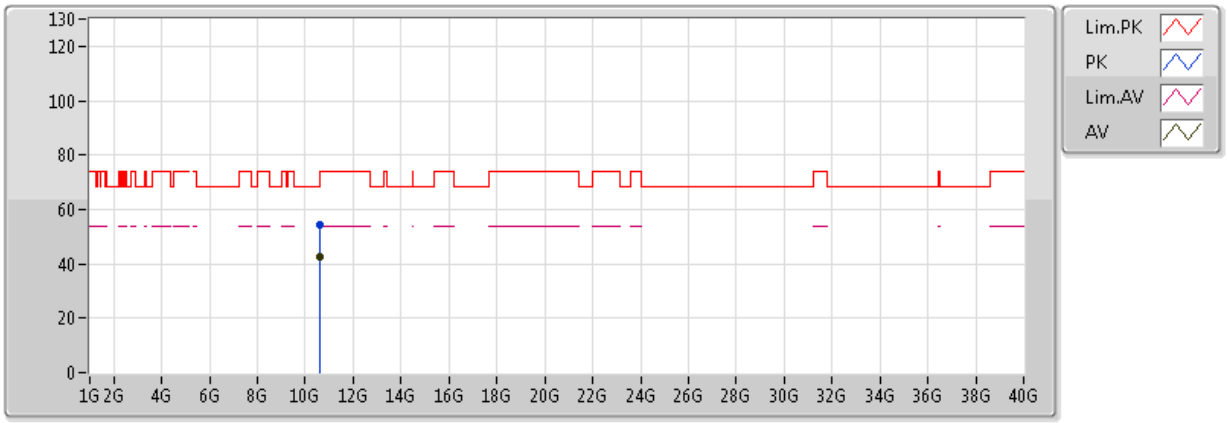



20170329
EUT Z 2TX Non-TXBF
Setting 10.5
02-L-02

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 10.62237G | 42.36 | 54.00 | -11.64 | 15.91 | 3 | V | 67 | 2.15 | - |
| PK | 10.6215G | 55.99 | 74.00 | -18.01 | 15.91 | 3 | V | 67 | 2.15 | - |

## QPSK,40M_Nss1_2TX

## 5310MHz_TX

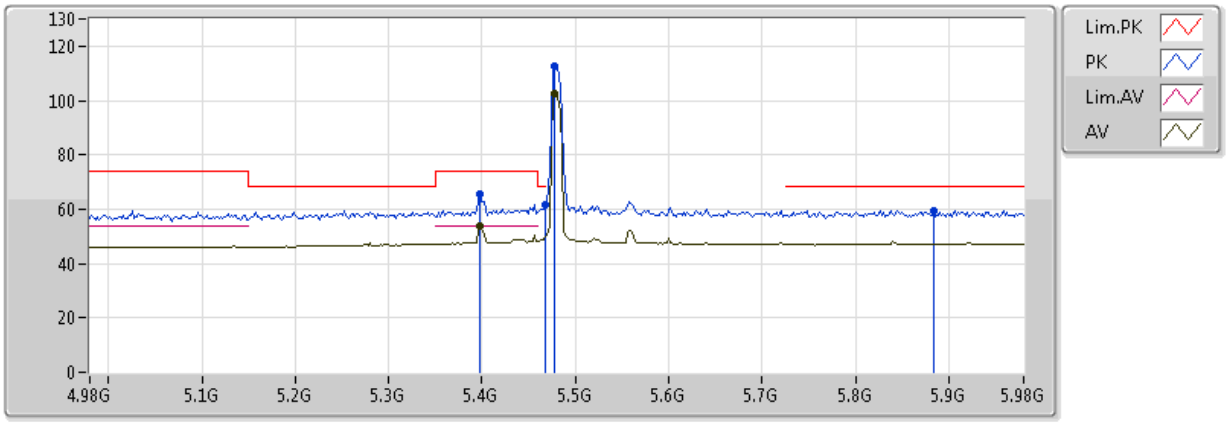



20170329
EUT Z 2TX Non-TXBF
Setting 10.5
02-L-02

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 10.61992G | 42.43 | 54.00 | -11.57 | 15.91 | 3 | H | 70 | 1.17 | - |
| PK | 10.61938G | 54.48 | 74.00 | -19.52 | 15.91 | 3 | H | 70 | 1.17 | - |

## QPSK,10M_Nss1_2TX

## 5480MHz_TX

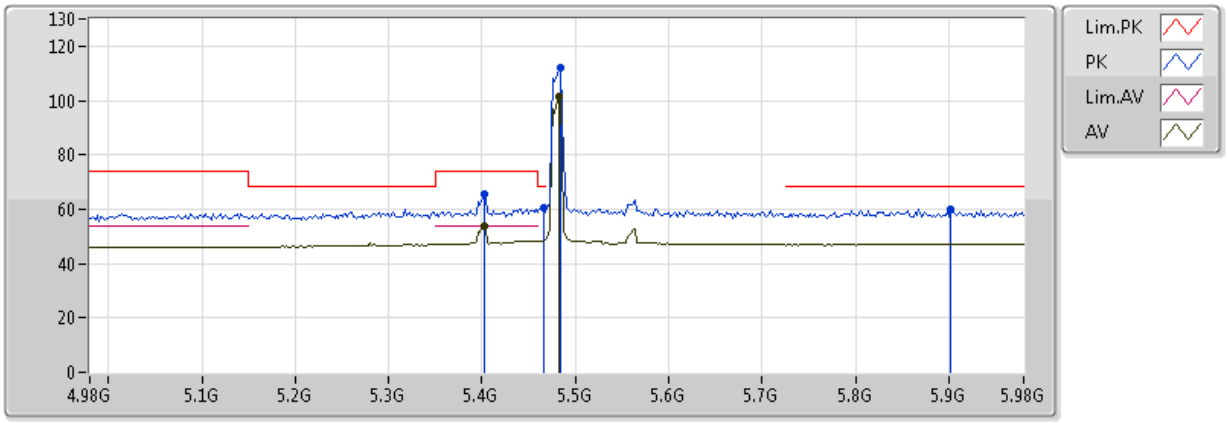



20170330
EUT Z 2TX Non-TXBF
setting 9
02-L-2-10

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 5.398G | 53.63 | 54.00 | -0.37 | 9.43 | 3 | V | 86 | 1.61 | - |
| AV | 5.478G | 102.47 | Inf | -Inf | 9.63 | 3 | V | 86 | 1.61 | - |
| PK | 5.398G | 65.42 | 74.00 | -8.58 | 9.43 | 3 | V | 86 | 1.61 | - |
| PK | 5.468G | 61.41 | 68.20 | -6.79 | 9.61 | 3 | V | 86 | 1.61 | - |
| PK | 5.478G | 112.78 | Inf | -Inf | 9.63 | 3 | V | 86 | 1.61 | - |
| PK | 5.884G | 59.62 | 68.20 | -8.58 | 9.94 | 3 | V | 86 | 1.61 | - |

## QPSK,10M_Nss1_2TX

## 5480MHz_TX

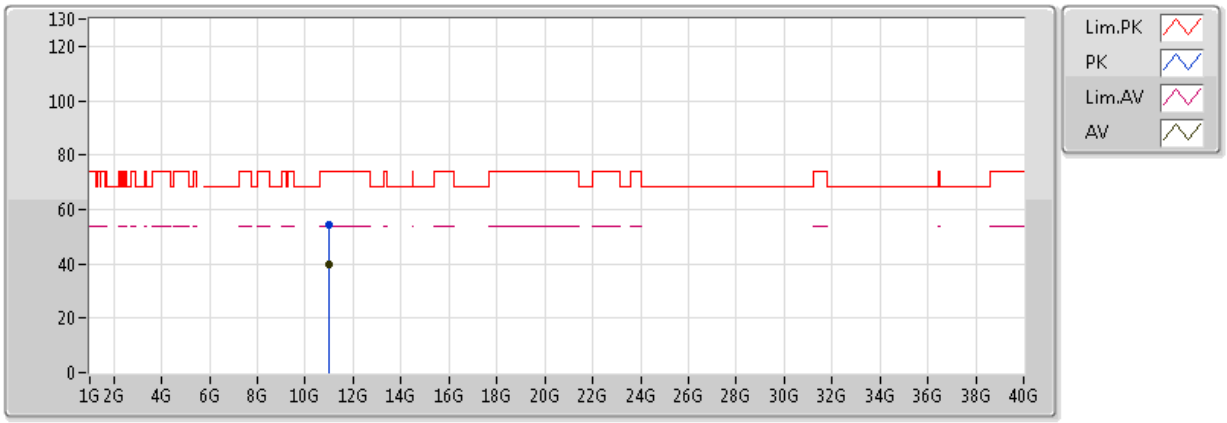



20170330
EUT Z 2TX Non-TXBF
setting 9
02-L-2-10

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 5.402G | 53.97 | 54.00 | -0.03 | 9.44 | 3 | H | 87 | 1.68 | - |
| AV | 5.482G | 101.67 | Inf | -Inf | 9.64 | 3 | H | 87 | 1.68 | - |
| PK | 5.402G | 65.40 | 74.00 | -8.60 | 9.44 | 3 | H | 87 | 1.68 | - |
| PK | 5.466G | 60.31 | 68.20 | -7.89 | 9.60 | 3 | H | 87 | 1.68 | - |
| PK | 5.484G | 111.95 | Inf | -Inf | 9.65 | 3 | H | 87 | 1.68 | - |
| PK | 5.902G | 60.18 | 68.20 | -8.02 | 9.96 | 3 | H | 87 | 1.68 | - |

## QPSK,10M_Nss1_2TX

## 5480MHz_TX

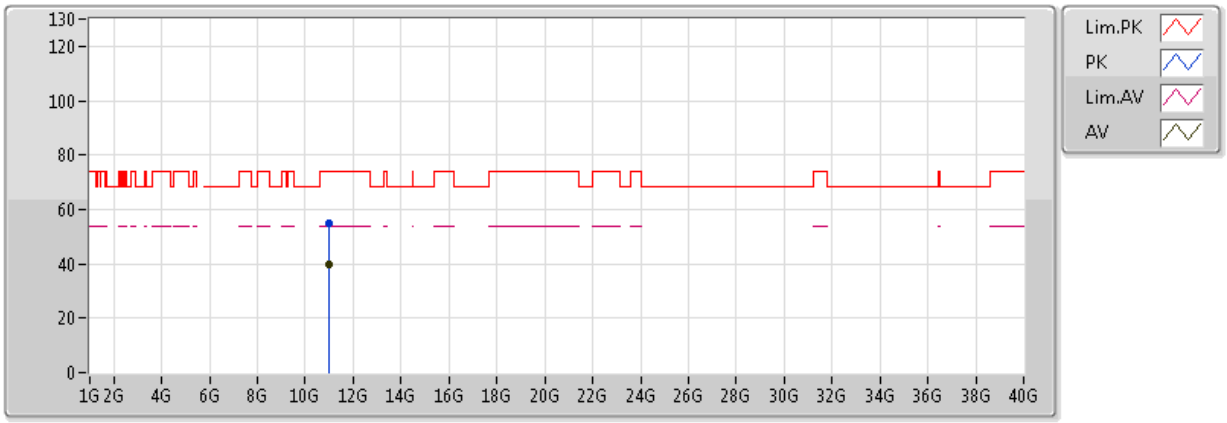



20170330
EUT Z 2TX Non-TXBF
setting 9
02-L-2

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 10.9594G | 39.59 | 54.00 | -14.41 | 15.84 | 3 | V | 191 | 1.22 | - |
| PK | 10.95822G | 54.34 | 74.00 | -19.66 | 15.84 | 3 | V | 191 | 1.22 | - |

## QPSK,10M_Nss1_2TX

## 5480MHz_TX

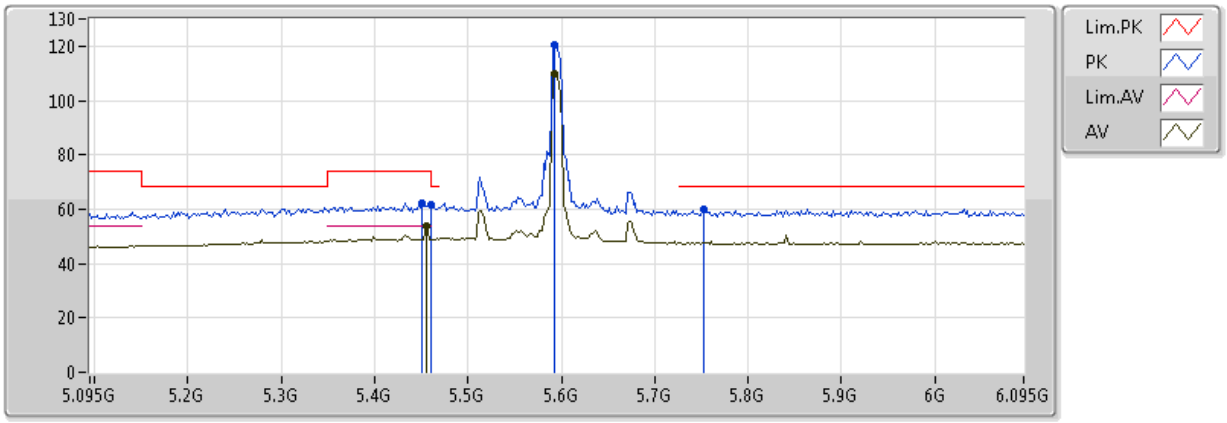



20170330
EUT Z 2TX Non-TXBF
setting 9
02-L-2

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 10.9606G | 39.60 | 54.00 | -14.40 | 15.84 | 3 | H | 158 | 1.54 | - |
| PK | 10.96041G | 54.65 | 74.00 | -19.35 | 15.84 | 3 | H | 158 | 1.54 | - |

## QPSK,10M_Nss1_2TX

## 5595MHz_TX

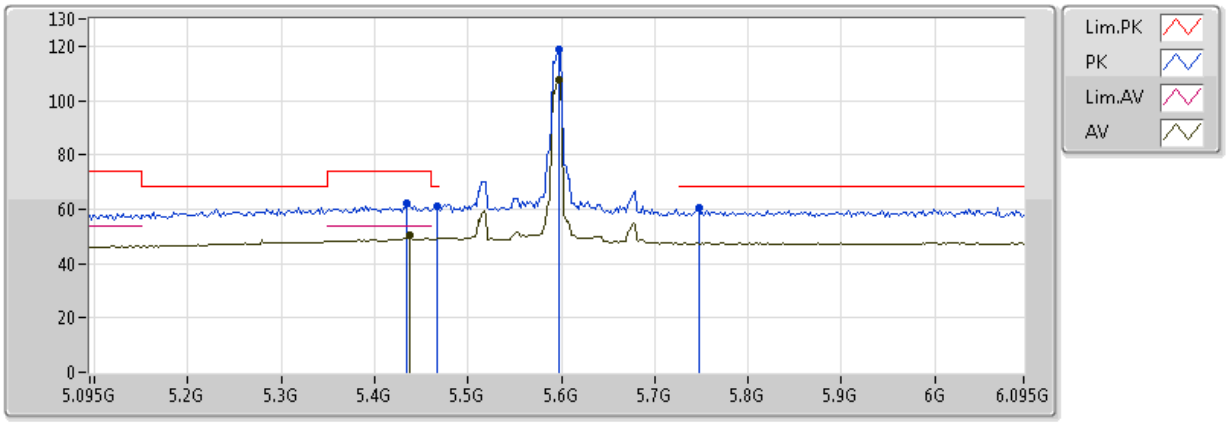



20170330
EUT Z 2TX Non-TXBF
setting 16.5
02-L-2-10

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 5.455G | 53.56 | 54.00 | -0.44 | 9.57 | 3 | V | 85 | 1.60 | - |
| AV | 5.593G | 109.56 | Inf | -Inf | 9.77 | 3 | V | 85 | 1.60 | - |
| PK | 5.451G | 61.94 | 74.00 | -12.06 | 9.56 | 3 | V | 85 | 1.60 | - |
| PK | 5.460005G | 61.63 | 68.20 | -6.57 | 9.59 | 3 | V | 85 | 1.60 | - |
| PK | 5.593G | 120.74 | Inf | -Inf | 9.77 | 3 | V | 85 | 1.60 | - |
| PK | 5.753G | 59.99 | 68.20 | -8.21 | 9.81 | 3 | V | 85 | 1.60 | - |

## QPSK,10M_Nss1_2TX

## 5595MHz_TX

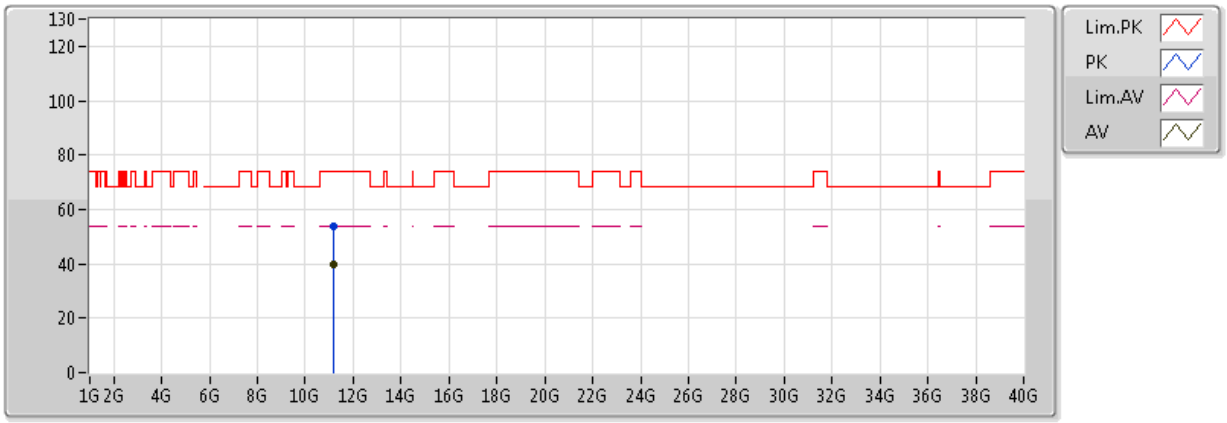



20170330
EUT Z 2TX Non-TXBF
setting 16.5
02-L-2-10

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 5.437G | 50.36 | 54.00 | -3.64 | 9.53 | 3 | H | 86 | 1.65 | - |
| AV | 5.597G | 107.77 | Inf | -Inf | 9.78 | 3 | H | 86 | 1.65 | - |
| PK | 5.435G | 62.22 | 74.00 | -11.78 | 9.52 | 3 | H | 86 | 1.65 | - |
| PK | 5.467G | 60.84 | 68.20 | -7.36 | 9.60 | 3 | H | 86 | 1.65 | - |
| PK | 5.597G | 118.82 | Inf | -Inf | 9.78 | 3 | H | 86 | 1.65 | - |
| PK | 5.747G | 60.59 | 68.20 | -7.61 | 9.81 | 3 | H | 86 | 1.65 | - |

## QPSK,10M_Nss1_2TX

## 5595MHz_TX

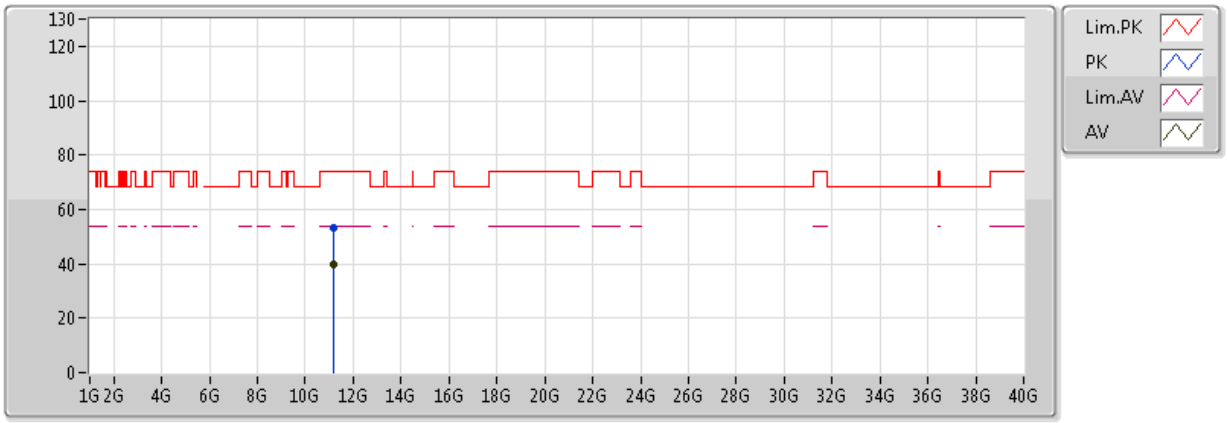



20170330
EUT Z 2TX Non-TXBF
setting 16.5
02-L-2

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 11.19165G | 39.81 | 54.00 | -14.19 | 16.02 | 3 | V | 50 | 1.17 | - |
| PK | 11.18886G | 53.84 | 74.00 | -20.16 | 16.02 | 3 | V | 50 | 1.17 | - |

## QPSK,10M_Nss1_2TX

## 5595MHz_TX

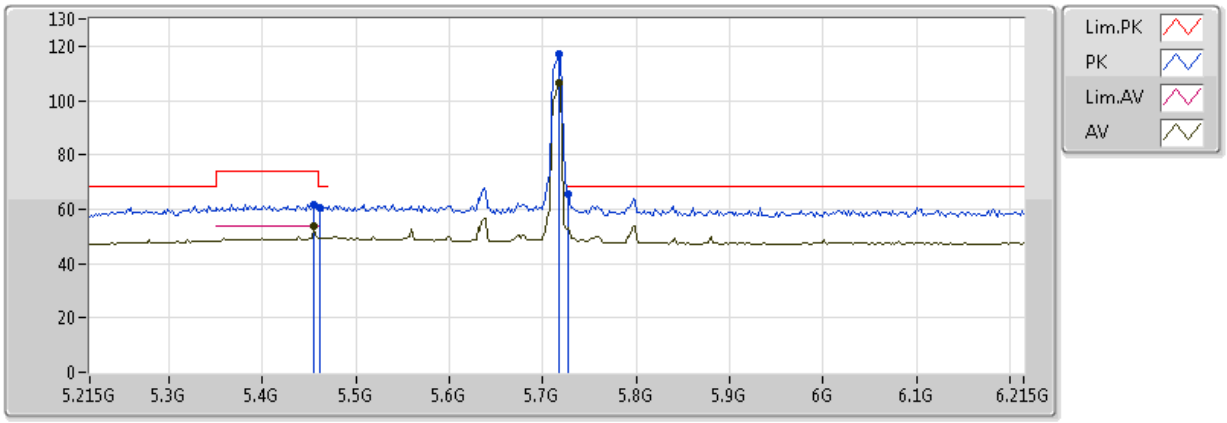



20170330
EUT Z 2TX Non-TXBF
setting 16.5
02-L-2

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 11.19162G | 39.77 | 54.00 | -14.23 | 16.02 | 3 | H | 248 | 2.42 | - |
| PK | 11.19236G | 53.40 | 74.00 | -20.60 | 16.02 | 3 | H | 248 | 2.42 | - |

## QPSK,10M_Nss1_2TX

## 5715MHz_TX

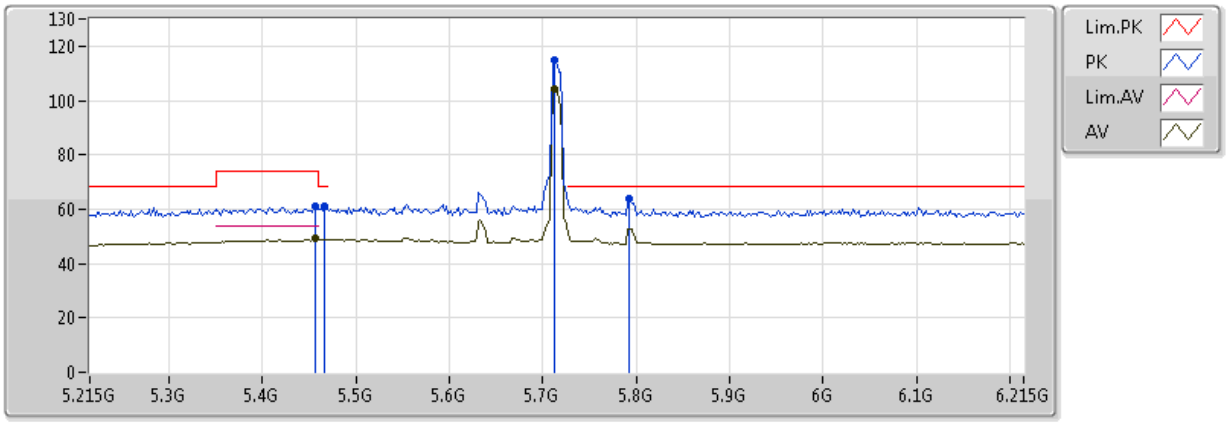



20170330
EUT Z 2TX Non-TXBF
setting 15
02-L-2-10

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 5.455G | 53.65 | 54.00 | -0.35 | 9.57 | 3 | V | 85 | 1.60 | - |
| AV | 5.717G | 106.21 | Inf | -Inf | 9.80 | 3 | V | 85 | 1.60 | - |
| PK | 5.455G | 61.77 | 74.00 | -12.23 | 9.57 | 3 | V | 85 | 1.60 | - |
| PK | 5.461G | 60.69 | 68.20 | -7.51 | 9.59 | 3 | V | 85 | 1.60 | - |
| PK | 5.717G | 116.98 | Inf | -Inf | 9.80 | 3 | V | 85 | 1.60 | - |
| PK | 5.727G | 65.74 | 68.20 | -2.46 | 9.81 | 3 | V | 85 | 1.60 | - |

## QPSK,10M_Nss1_2TX

## 5715MHz_TX

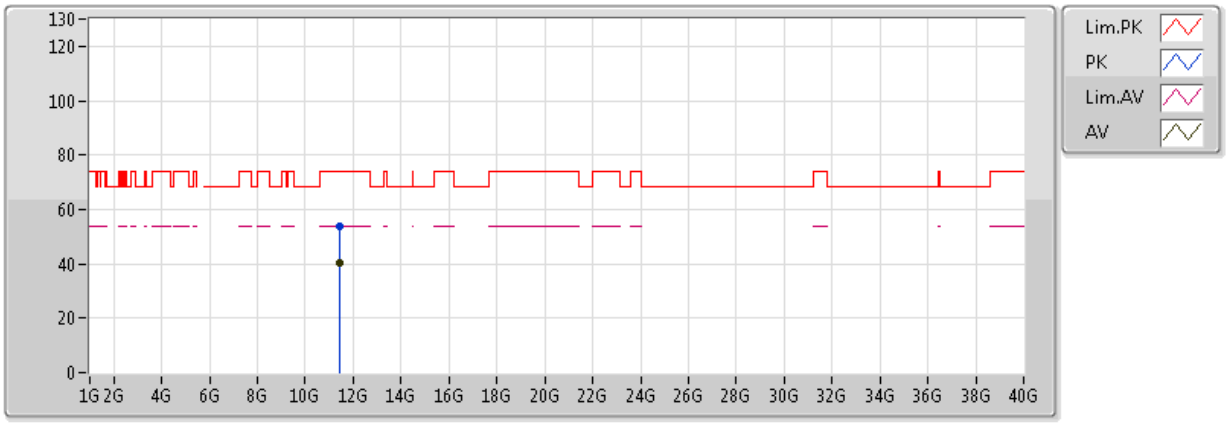



20170330
EUT Z 2TX Non-TXBF
setting 15
02-L-2-10

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 5.457G | 49.23 | 54.00 | -4.77 | 9.58 | 3 | H | 87 | 1.66 | - |
| AV | 5.713G | 104.44 | Inf | -Inf | 9.80 | 3 | H | 87 | 1.66 | - |
| PK | 5.457G | 61.23 | 74.00 | -12.77 | 9.58 | 3 | H | 87 | 1.66 | - |
| PK | 5.467G | 61.18 | 68.20 | -7.02 | 9.60 | 3 | H | 87 | 1.66 | - |
| PK | 5.713G | 114.78 | Inf | -Inf | 9.80 | 3 | H | 87 | 1.66 | - |
| PK | 5.793G | 63.73 | 68.20 | -4.47 | 9.82 | 3 | H | 87 | 1.66 | - |

## QPSK,10M_Nss1_2TX

## 5715MHz_TX

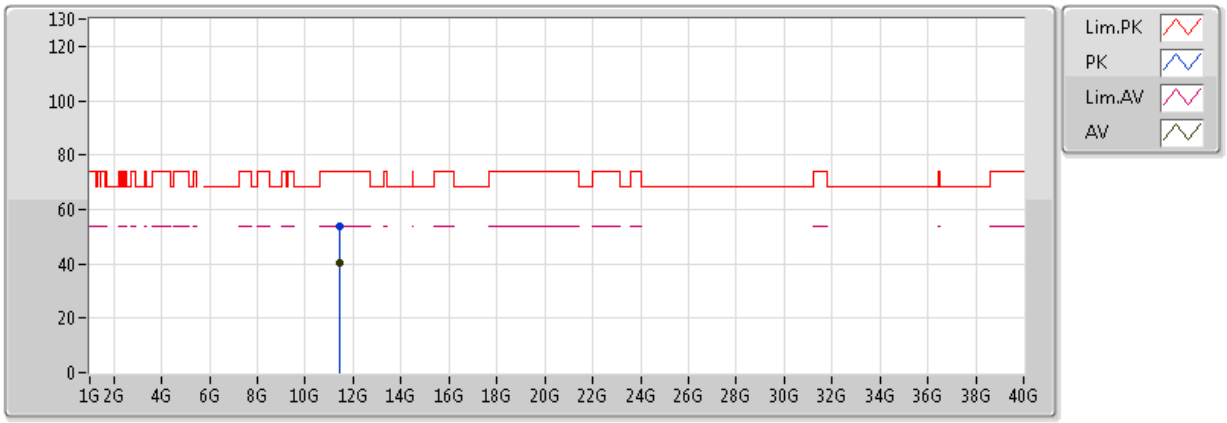



20170330
EUT Z 2TX Non-TXBF
setting 15
02-L-2

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 11.4319G | 40.26 | 54.00 | -13.74 | 16.26 | 3 | V | 75 | 1.64 | - |
| PK | 11.43131G | 53.66 | 74.00 | -20.34 | 16.26 | 3 | V | 75 | 1.64 | - |

## QPSK,10M_Nss1_2TX

## 5715MHz_TX

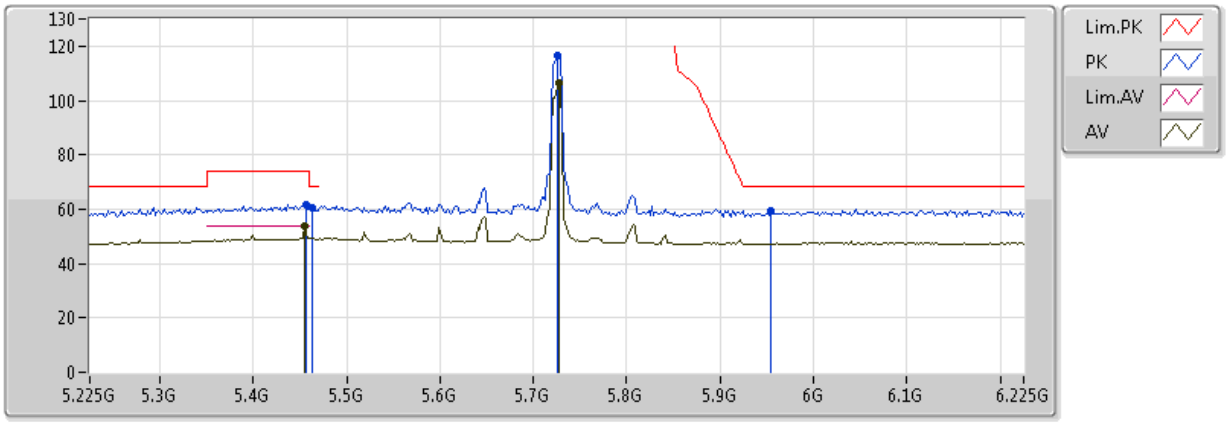



20170330
EUT Z 2TX Non-TXBF
setting 15
02-L-2

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 11.43168G | 40.23 | 54.00 | -13.77 | 16.26 | 3 | H | 141 | 2.24 | - |
| PK | 11.43154G | 53.73 | 74.00 | -20.27 | 16.26 | 3 | H | 141 | 2.24 | - |

## QPSK,10M_Nss1_2TX

## 5725MHz_TX

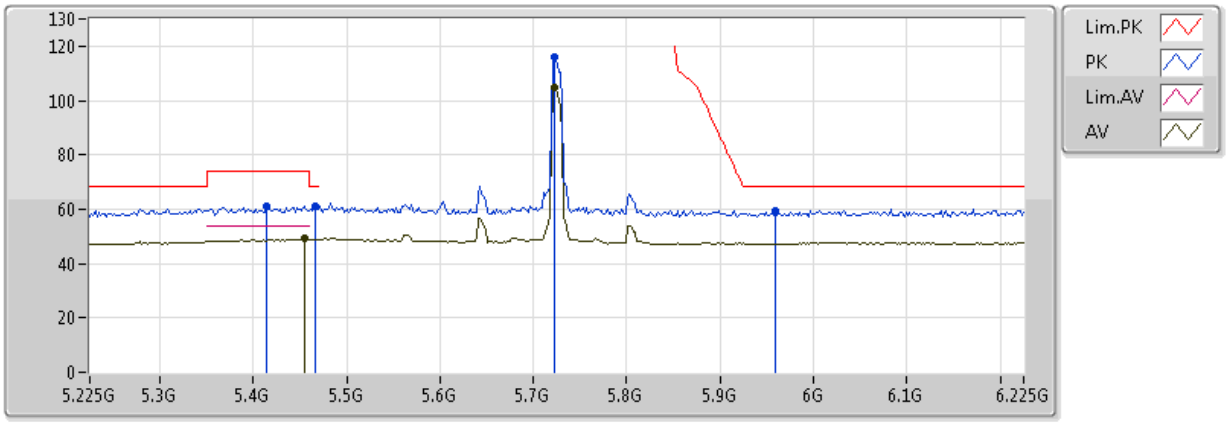



20170330
EUT Z 2TX Non-TXBF
setting 15.5
02-L-2-10

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 5.455G | 53.54 | 54.00 | -0.46 | 9.57 | 3 | V | 85 | 1.61 | - |
| AV | 5.727G | 106.22 | Inf | -Inf | 9.81 | 3 | V | 85 | 1.61 | - |
| PK | 5.457G | 61.72 | 74.00 | -12.28 | 9.58 | 3 | V | 85 | 1.61 | - |
| PK | 5.463G | 60.52 | 68.20 | -7.68 | 9.59 | 3 | V | 85 | 1.61 | - |
| PK | 5.725G | 116.63 | Inf | -Inf | 9.80 | 3 | V | 85 | 1.61 | - |
| PK | 5.955G | 59.49 | 68.20 | -8.71 | 10.04 | 3 | V | 85 | 1.61 | - |

## QPSK,10M_Nss1_2TX

## 5725MHz_TX

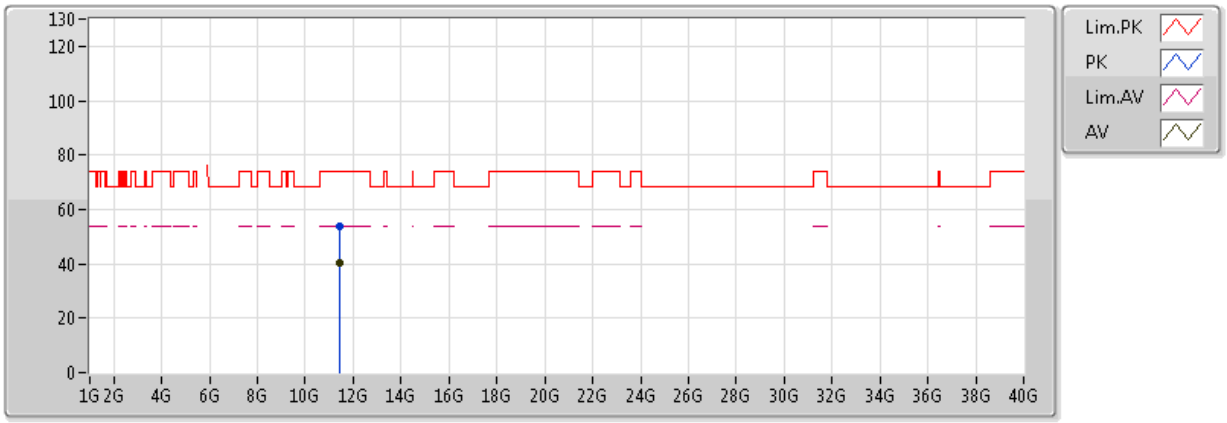



20170330
EUT Z 2TX Non-TXBF
setting 15.5
02-L-2-10

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 5.455G | 49.52 | 54.00 | -4.48 | 9.57 | 3 | H | 86 | 1.66 | - |
| AV | 5.723G | 104.64 | Inf | -Inf | 9.80 | 3 | H | 86 | 1.66 | - |
| PK | 5.415G | 61.32 | 74.00 | -12.68 | 9.47 | 3 | H | 86 | 1.66 | - |
| PK | 5.467G | 60.91 | 68.20 | -7.29 | 9.60 | 3 | H | 86 | 1.66 | - |
| PK | 5.723G | 115.83 | Inf | -Inf | 9.80 | 3 | H | 86 | 1.66 | - |
| PK | 5.959G | 59.22 | 68.20 | -8.98 | 10.04 | 3 | H | 86 | 1.66 | - |

## QPSK,10M_Nss1_2TX

## 5725MHz_TX

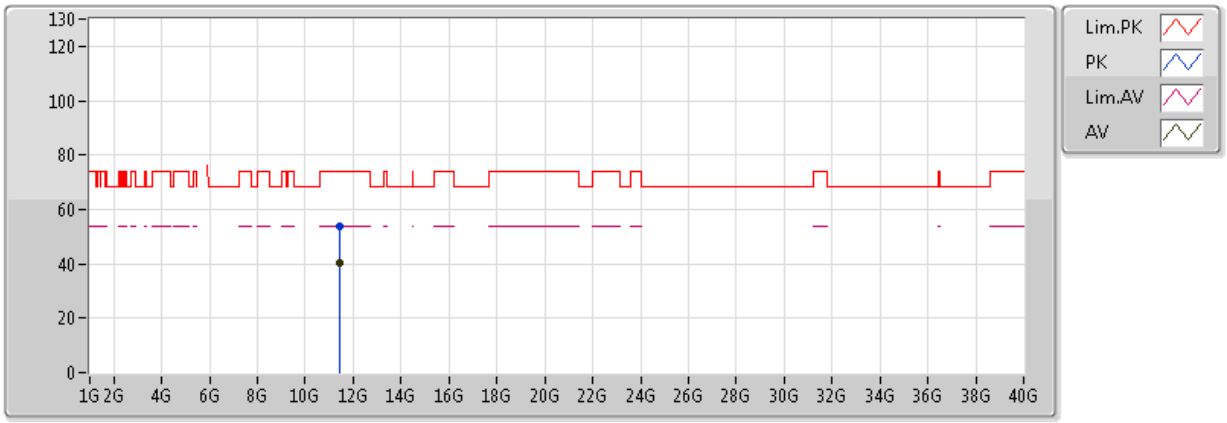



20170330
EUT Z 2TX Non-TXBF
setting 15.5
02-L-2

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 11.44786G | 40.12 | 54.00 | -13.88 | 16.27 | 3 | V | 240 | 1.22 | - |
| PK | 11.4482G | 53.78 | 74.00 | -20.22 | 16.27 | 3 | V | 240 | 1.22 | - |

## QPSK,10M_Nss1_2TX

## 5725MHz_TX

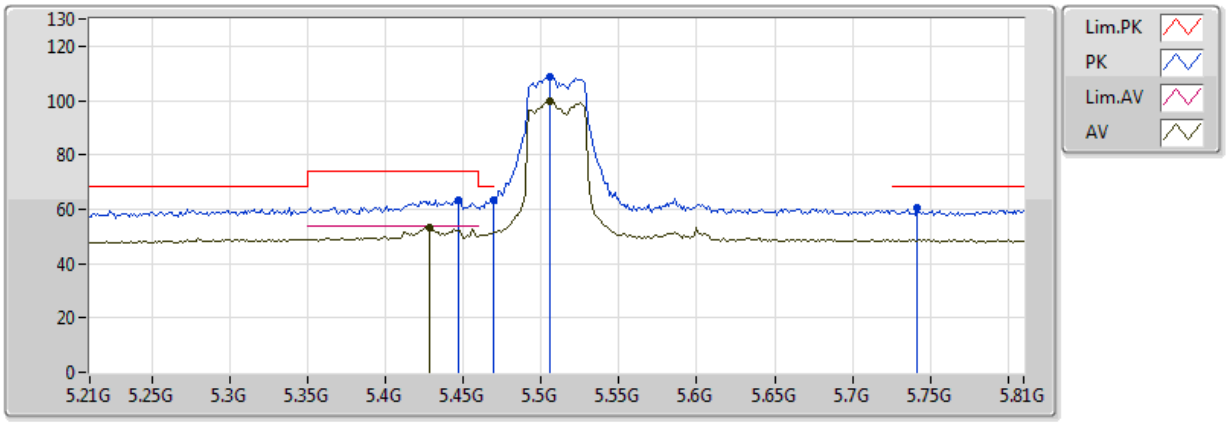



20170330
EUT Z 2TX Non-TXBF
setting 15.5
02-L-2

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 11.44757G | 40.12 | 54.00 | -13.88 | 16.27 | 3 | H | 97 | 2.14 | - |
| PK | 11.44892G | 53.66 | 74.00 | -20.34 | 16.27 | 3 | H | 97 | 2.14 | - |

## QPSK,40M_Nss1_2TX

## 5510MHz_TX

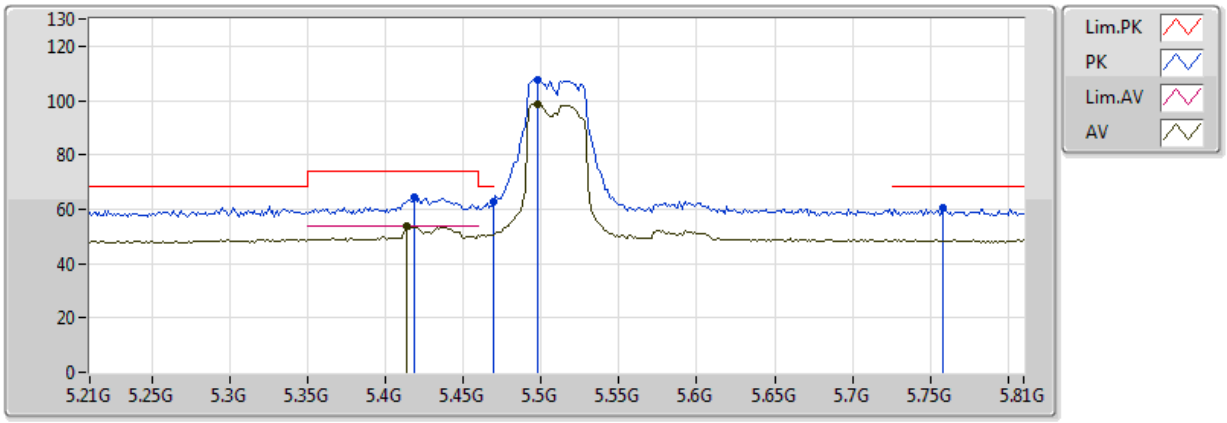



20170329
EUT Z 2TX Non-TXBF
Setting 11
02-L-02-10

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 5.4284G | 53.20 | 54.00 | -0.80 | 9.50 | 3 | V | 90 | 1.66 | - |
| AV | 5.5052G | 99.90 | Inf | -Inf | 9.69 | 3 | V | 90 | 1.66 | - |
| PK | 5.4464G | 63.23 | 74.00 | -10.77 | 9.55 | 3 | V | 90 | 1.66 | - |
| PK | 5.4692G | 63.39 | 68.20 | -4.81 | 9.61 | 3 | V | 90 | 1.66 | - |
| PK | 5.5052G | 108.52 | Inf | -Inf | 9.69 | 3 | V | 90 | 1.66 | - |
| PK | 5.7416G | 60.36 | 68.20 | -7.84 | 9.81 | 3 | V | 90 | 1.66 | - |

## QPSK,40M_Nss1_2TX

## 5510MHz_TX

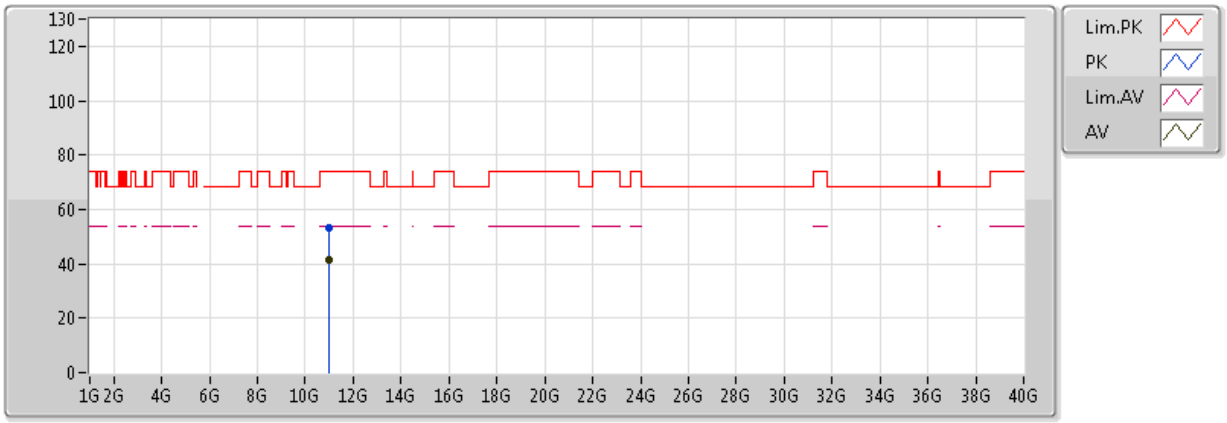



20170329
EUT Z 2TX Non-TXBF
Setting 11
02-L-02-10

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 5.414G | 53.65 | 54.00 | -0.35 | 9.47 | 3 | H | 90 | 1.69 | - |
| AV | 5.498G | 98.65 | Inf | -Inf | 9.68 | 3 | H | 90 | 1.69 | - |
| PK | 5.4188G | 64.16 | 74.00 | -9.84 | 9.48 | 3 | H | 90 | 1.69 | - |
| PK | 5.4692G | 62.60 | 68.20 | -5.60 | 9.61 | 3 | H | 90 | 1.69 | - |
| PK | 5.498G | 107.44 | Inf | -Inf | 9.68 | 3 | H | 90 | 1.69 | - |
| PK | 5.7584G | 60.33 | 68.20 | -7.87 | 9.81 | 3 | H | 90 | 1.69 | - |

## QPSK,40M_Nss1_2TX

## 5510MHz_TX

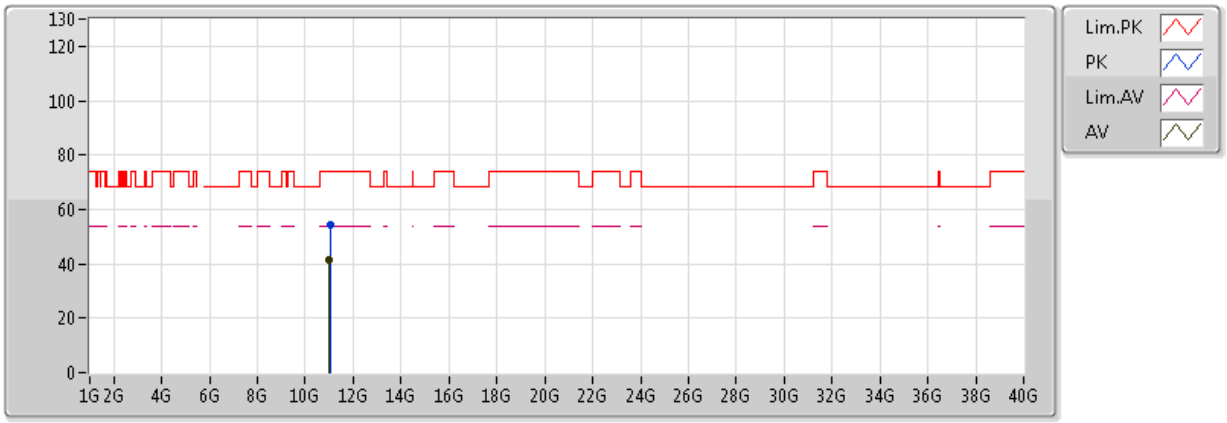



20170329
EUT Z 2TX Non-TXBF
Setting 11
02-L-02

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 11.01777G | 41.34 | 54.00 | -12.66 | 15.85 | 3 | V | 351 | 1.35 | - |
| PK | 11.01931G | 53.35 | 74.00 | -20.65 | 15.85 | 3 | V | 351 | 1.35 | - |

## QPSK,40M_Nss1_2TX

## 5510MHz_TX

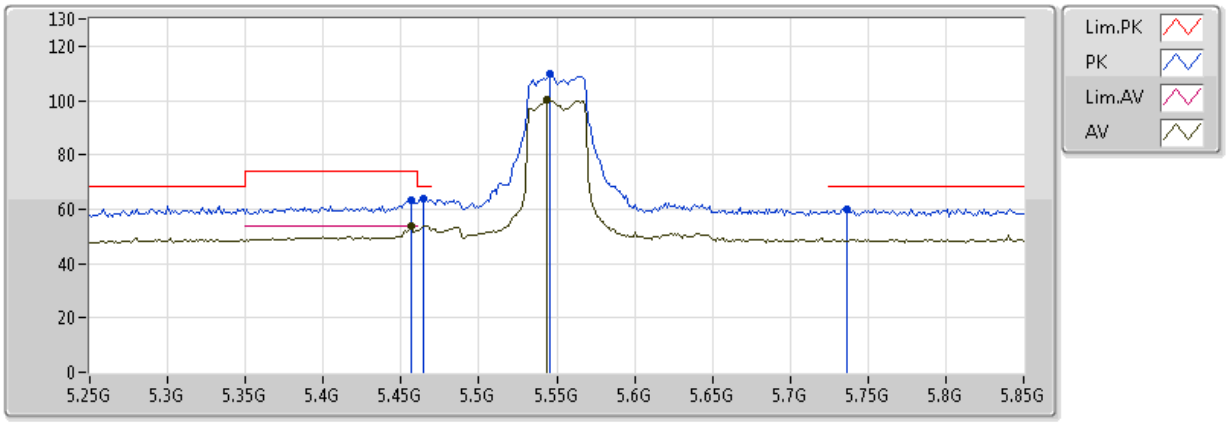



20170329
EUT Z 2TX Non-TXBF
Setting 11
02-L-02

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 11.01821G | 41.64 | 54.00 | -12.36 | 15.85 | 3 | H | 279 | 1.11 | - |
| PK | 11.02223G | 54.20 | 74.00 | -19.80 | 15.85 | 3 | H | 279 | 1.11 | - |

## QPSK,40M_Nss1_2TX

## 5550MHz_TX

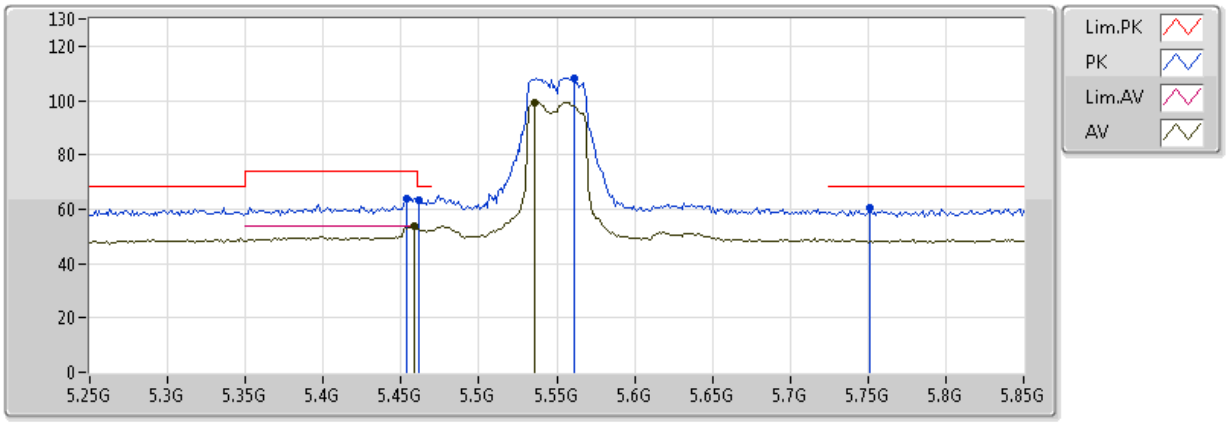



20170329
EUT Z 2TX Non-TXBF
Setting 11.5
02-L-02-10

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 5.4564G | 53.94 | 54.00 | -0.06 | 9.58 | 3 | V | 90 | 1.68 | - |
| AV | 5.544G | 100.16 | Inf | -Inf | 9.73 | 3 | V | 90 | 1.68 | - |
| PK | 5.4564G | 63.09 | 74.00 | -10.91 | 9.58 | 3 | V | 90 | 1.68 | - |
| PK | 5.4648G | 63.83 | 68.20 | -4.37 | 9.60 | 3 | V | 90 | 1.68 | - |
| PK | 5.5452G | 109.76 | Inf | -Inf | 9.73 | 3 | V | 90 | 1.68 | - |
| PK | 5.736G | 59.94 | 68.20 | -8.26 | 9.81 | 3 | V | 90 | 1.68 | - |

## QPSK,40M_Nss1_2TX

## 5550MHz_TX

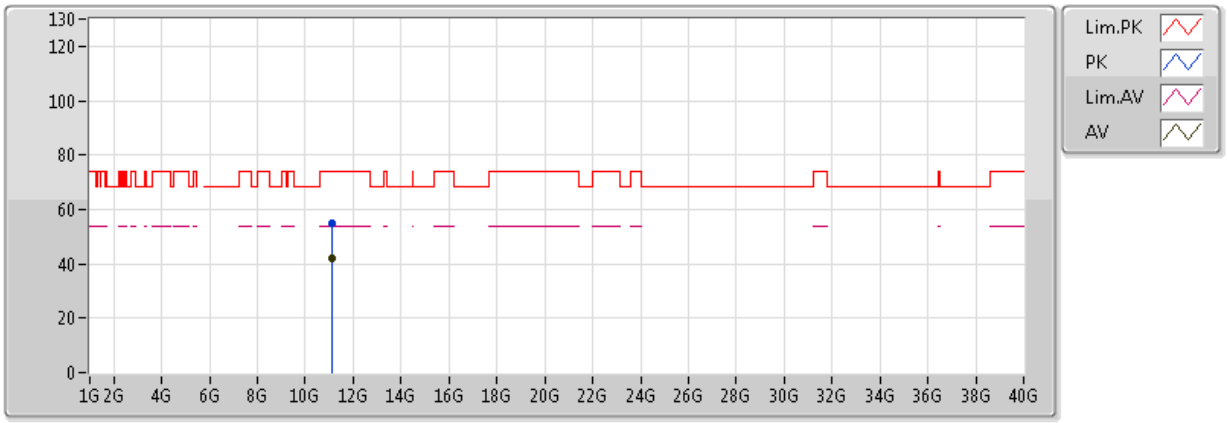



20170329
EUT Z 2TX Non-TXBF
Setting 11.5
02-L-02-10

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 5.4588G | 53.58 | 54.00 | -0.42 | 9.58 | 3 | H | 90 | 1.64 | - |
| AV | 5.5356G | 99.42 | Inf | -Inf | 9.72 | 3 | H | 90 | 1.64 | - |
| PK | 5.454G | 64.10 | 74.00 | -9.90 | 9.57 | 3 | H | 90 | 1.64 | - |
| PK | 5.4612G | 63.34 | 68.20 | -4.86 | 9.59 | 3 | H | 90 | 1.64 | - |
| PK | 5.5608G | 108.30 | Inf | -Inf | 9.74 | 3 | H | 90 | 1.64 | - |
| PK | 5.7516G | 60.29 | 68.20 | -7.91 | 9.81 | 3 | H | 90 | 1.64 | - |

## QPSK,40M_Nss1_2TX

## 5550MHz_TX

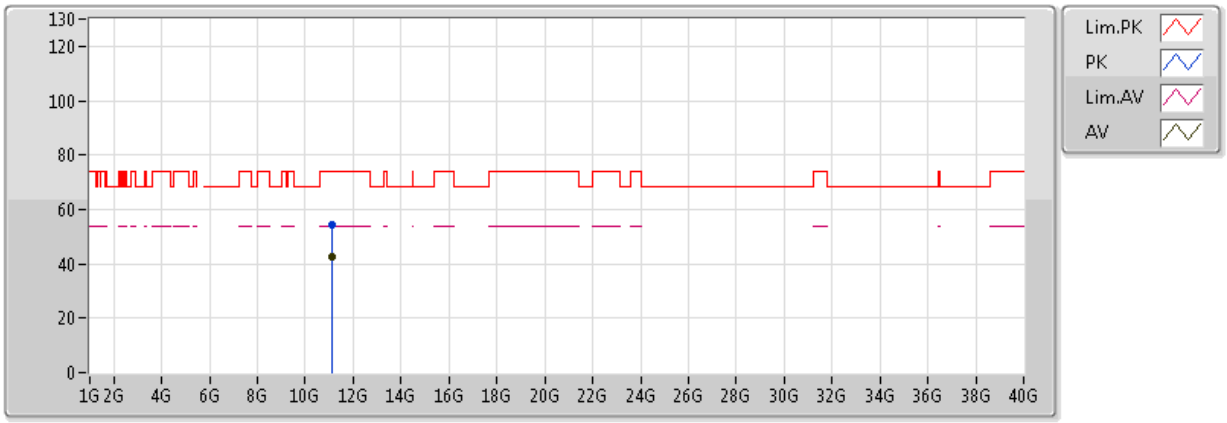



20170329
EUT Z 2TX Non-TXBF
Setting 11.5
02-L-02

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 11.10207G | 42.29 | 54.00 | -11.71 | 15.93 | 3 | V | 25 | 2.34 | - |
| PK | 11.10239G | 54.90 | 74.00 | -19.10 | 15.93 | 3 | V | 25 | 2.34 | - |

## QPSK,40M_Nss1_2TX

## 5550MHz_TX

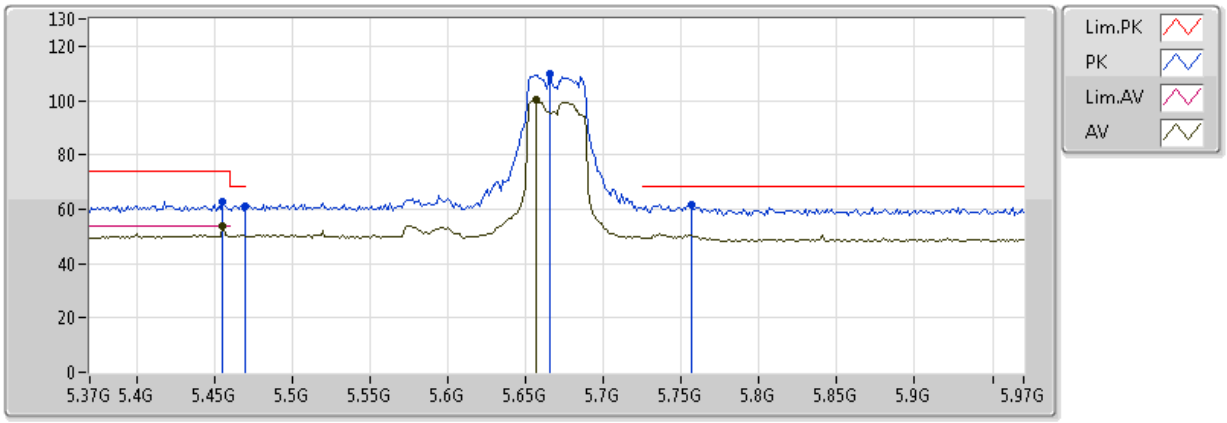



20170329
EUT Z 2TX Non-TXBF
Setting 11.5
02-L-02

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 11.1014G | 42.37 | 54.00 | -11.63 | 15.93 | 3 | H | 145 | 1.64 | - |
| PK | 11.09881G | 54.38 | 74.00 | -19.62 | 15.93 | 3 | H | 145 | 1.64 | - |

## QPSK,40M_Nss1_2TX

## 5670MHz_TX

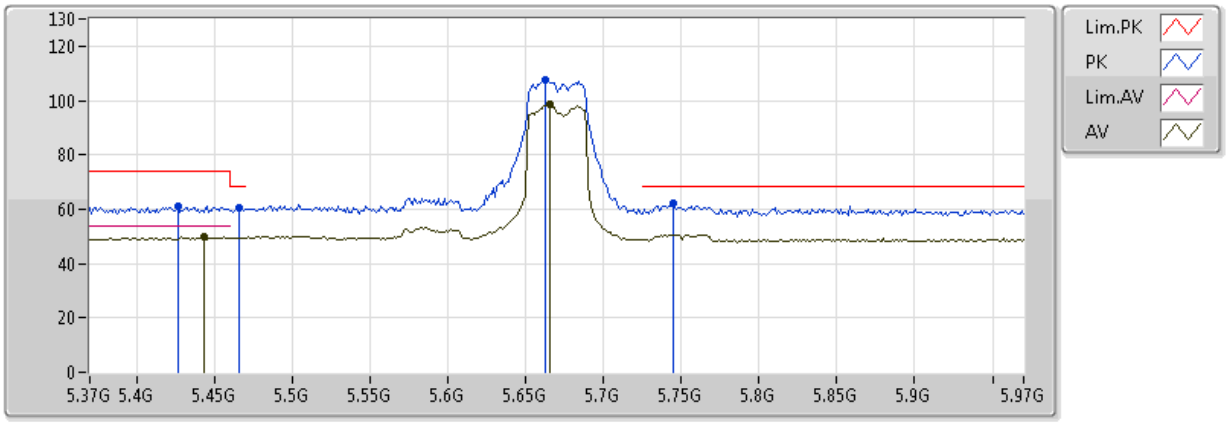



20170329
EUT Z 2TX Non-TXBF
Setting 11.5
02-L-02-10

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 5.4552G | 53.60 | 54.00 | -0.40 | 9.57 | 3 | V | 89 | 1.64 | - |
| AV | 5.6568G | 100.55 | Inf | -Inf | 9.79 | 3 | V | 89 | 1.64 | - |
| PK | 5.4552G | 62.55 | 74.00 | -11.45 | 9.57 | 3 | V | 89 | 1.64 | - |
| PK | 5.4696G | 61.21 | 68.20 | -6.99 | 9.61 | 3 | V | 89 | 1.64 | - |
| PK | 5.6652G | 109.95 | Inf | -Inf | 9.79 | 3 | V | 89 | 1.64 | - |
| PK | 5.7564G | 61.38 | 68.20 | -6.82 | 9.81 | 3 | V | 89 | 1.64 | - |

## QPSK,40M_Nss1_2TX

## 5670MHz_TX

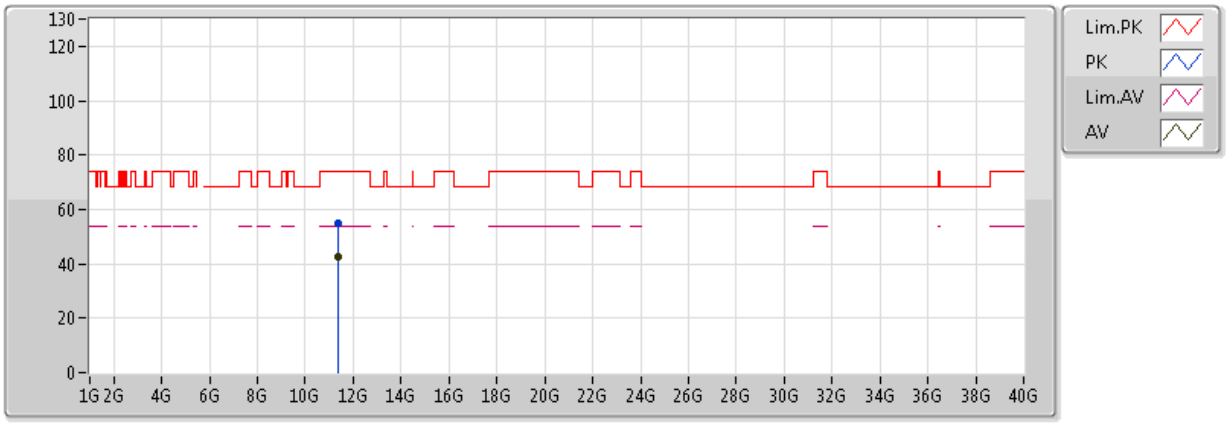



20170329
EUT Z 2TX Non-TXBF
Setting 11.5
02-L-02-10

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 5.4432G | 49.86 | 54.00 | -4.14 | 9.54 | 3 | H | 89 | 1.68 | - |
| AV | 5.6652G | 98.56 | Inf | -Inf | 9.79 | 3 | H | 89 | 1.68 | - |
| PK | 5.4264G | 61.20 | 74.00 | -12.80 | 9.50 | 3 | H | 89 | 1.68 | - |
| PK | 5.466G | 60.50 | 68.20 | -7.70 | 9.60 | 3 | H | 89 | 1.68 | - |
| PK | 5.6628G | 107.77 | Inf | -Inf | 9.79 | 3 | H | 89 | 1.68 | - |
| PK | 5.7444G | 61.95 | 68.20 | -6.25 | 9.81 | 3 | H | 89 | 1.68 | - |

## QPSK,40M_Nss1_2TX

## 5670MHz_TX

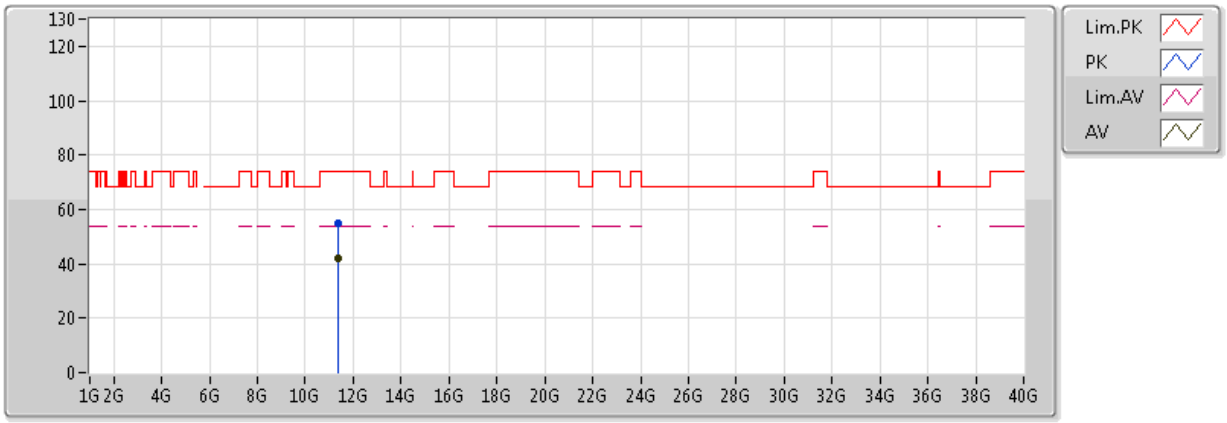



20170329
EUT Z 2TX Non-TXBF
Setting 11.5
02-L-02

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 11.34145G | 42.33 | 54.00 | -11.67 | 16.17 | 3 | V | 194 | 1.75 | - |
| PK | 11.34083G | 54.65 | 74.00 | -19.35 | 16.17 | 3 | V | 194 | 1.75 | - |

## QPSK,40M_Nss1_2TX

## 5670MHz_TX

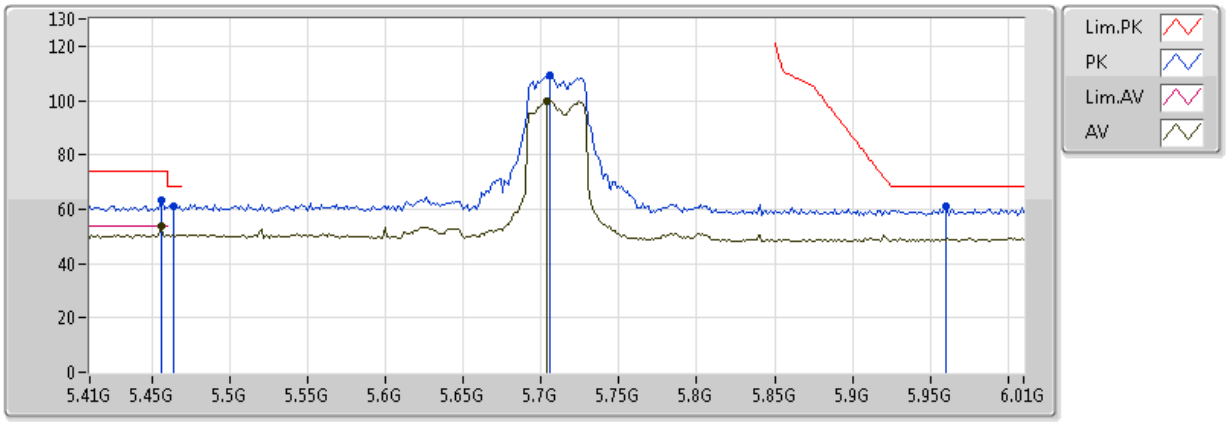



20170329
EUT Z 2TX Non-TXBF
Setting 11.5
02-L-02

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 11.34149G | 42.20 | 54.00 | -11.80 | 16.17 | 3 | H | 205 | 2.37 | - |
| PK | 11.33987G | 54.69 | 74.00 | -19.31 | 16.17 | 3 | H | 205 | 2.37 | - |

## QPSK,40M_Nss1_2TX

## 5710MHz_TX

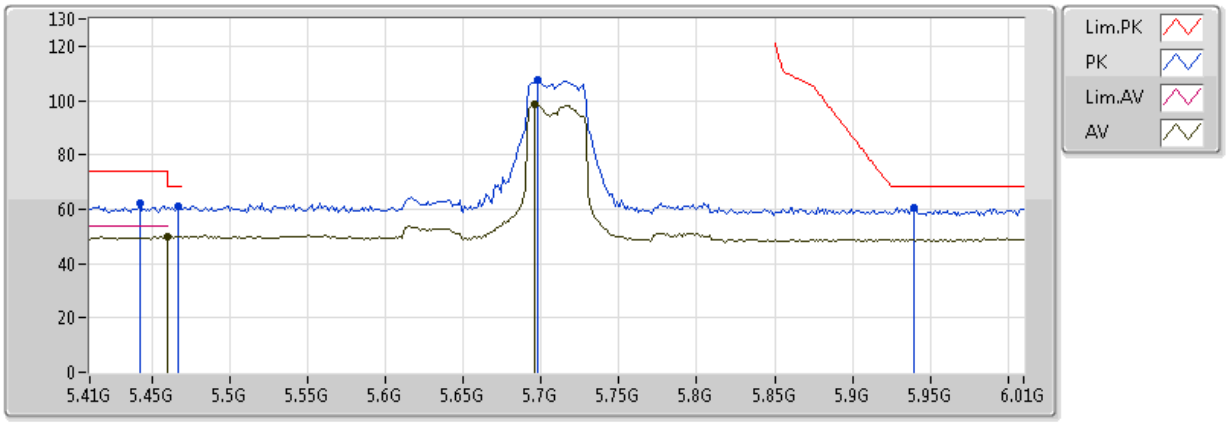



20170329
EUT Z 2TX Non-TXBF
Setting 12.5
02-L-02-10

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 5.4556G | 53.66 | 54.00 | -0.34 | 9.57 | 3 | V | 88 | 1.64 | - |
| AV | 5.704G | 99.71 | Inf | -Inf | 9.80 | 3 | V | 88 | 1.64 | - |
| PK | 5.4556G | 63.54 | 74.00 | -10.46 | 9.57 | 3 | V | 88 | 1.64 | - |
| PK | 5.464G | 61.23 | 68.20 | -6.97 | 9.60 | 3 | V | 88 | 1.64 | - |
| PK | 5.7052G | 109.01 | Inf | -Inf | 9.80 | 3 | V | 88 | 1.64 | - |
| PK | 5.9596G | 60.83 | 68.20 | -7.37 | 10.04 | 3 | V | 88 | 1.64 | - |

## QPSK,40M_Nss1_2TX

## 5710MHz_TX

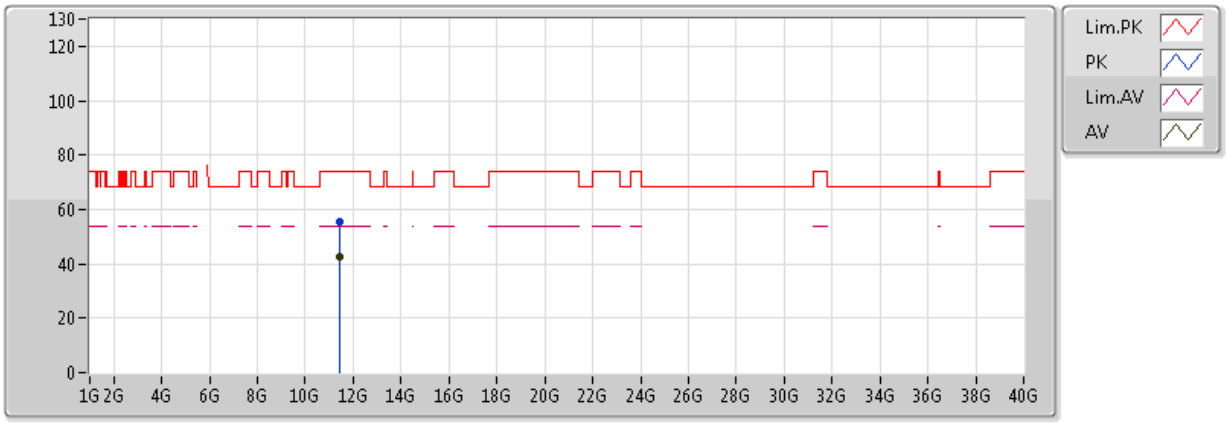



20170329
EUT Z 2TX Non-TXBF
Setting 12.5
02-L-02-10

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 5.459995G | 49.92 | 54.00 | -4.08 | 9.59 | 3 | H | 90 | 1.66 | - |
| AV | 5.6956G | 98.52 | Inf | -Inf | 9.80 | 3 | H | 90 | 1.66 | - |
| PK | 5.4424G | 61.96 | 74.00 | -12.04 | 9.54 | 3 | H | 90 | 1.66 | - |
| PK | 5.4664G | 60.93 | 68.20 | -7.27 | 9.60 | 3 | H | 90 | 1.66 | - |
| PK | 5.698G | 107.67 | Inf | -Inf | 9.80 | 3 | H | 90 | 1.66 | - |
| PK | 5.9392G | 60.35 | 68.20 | -7.85 | 10.01 | 3 | H | 90 | 1.66 | - |

## QPSK,40M_Nss1_2TX

## 5710MHz_TX

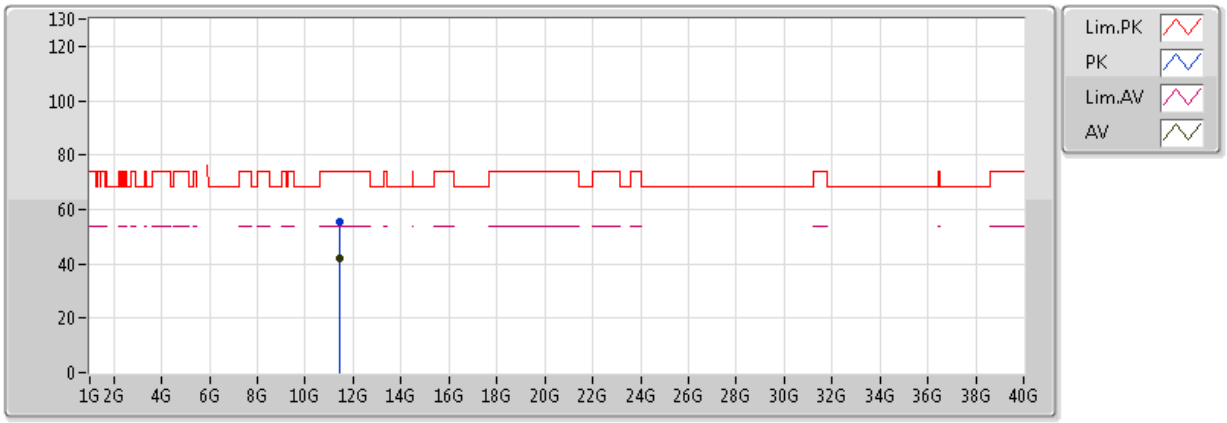



20170329
EUT Z 2TX Non-TXBF
Setting 12.5
02-L-02

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 11.42168G | 42.40 | 54.00 | -11.60 | 16.25 | 3 | V | 37 | 2.41 | - |
| PK | 11.42051G | 55.71 | 74.00 | -18.29 | 16.25 | 3 | V | 37 | 2.41 | - |

## QPSK,40M_Nss1_2TX

## 5710MHz_TX




20170329
EUT Z 2TX Non-TXBF
Setting 12.5
02-L-02

| Type | Freq(Hz) | Level(dBuV/m) | Limit(dBuV/m) | Margin(dB) | Factor(dB) | Dist(m) | Pol.(H/V) | Azimuth(°) | Height(m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| AV | 11.41999G | 42.15 | 54.00 | -11.85 | 16.25 | 3 | H | 356 | 1.43 | - |
| PK | 11.4175G | 55.68 | 74.00 | -18.32 | 16.24 | 3 | H | 356 | 1.43 | - |

**Mode: 10 MHz / Ant 1**

**Voltage vs. Frequency Stability**

| Voltage | Measurement Frequency (MHz) | | | |
|---|---|---|---|---|
| (V) | 5300 MHz | | | |
| | 0 Minute | 2 Minute | 5 Minute | 10 Minute |
| 126.50 | 5299.9944 | 5299.9939 | 5299.9938 | 5299.9934 |
| 110.00 | 5299.9934 | 5299.9930 | 5299.9924 | 5299.9916 |
| 93.50 | 5299.9932 | 5299.9929 | 5299.9922 | 5299.9917 |
| Max. Deviation (MHz) | 0.0068 | 0.0071 | 0.0078 | 0.0084 |
| Max. Deviation (ppm) | 1.28 | 1.34 | 1.47 | 1.58 |
| Result | Pass | | | |

**Temperature vs. Frequency Stability**

| Temperature | Measurement Frequency (MHz) | | | |
|---|---|---|---|---|
| (℃) | 5300 MHz | | | |
| | 0 Minute | 2 Minute | 5 Minute | 10 Minute |
| -40 | 5299.9988 | 5299.9979 | 5299.9975 | 5299.9965 |
| -30 | 5299.9973 | 5299.9970 | 5299.9963 | 5299.9959 |
| -20 | 5299.9968 | 5299.9960 | 5299.9951 | 5299.9944 |
| -10 | 5299.9966 | 5299.9961 | 5299.9952 | 5299.9949 |
| 0 | 5299.9955 | 5299.9952 | 5299.9947 | 5299.9944 |
| 10 | 5299.9941 | 5299.9933 | 5299.9924 | 5299.9914 |
| 20 | 5299.9934 | 5299.9926 | 5299.9921 | 5299.9915 |
| 30 | 5299.9891 | 5299.9888 | 5299.9879 | 5299.9872 |
| 40 | 5299.9881 | 5299.9880 | 5299.9878 | 5299.9868 |
| 50 | 5299.9865 | 5299.9859 | 5299.9852 | 5299.9842 |
| 60 | 5299.9864 | 5299.9860 | 5299.9858 | 5299.9849 |
| 70 | 5299.9860 | 5299.9856 | 5299.9855 | 5299.9846 |
| Max. Deviation (MHz) | 0.0140 | 0.0144 | 0.0145 | 0.0154 |
| Max. Deviation (ppm) | 2.64 | 2.72 | 2.74 | 2.91 |
| Result | Pass | | | |

**Voltage vs. Frequency Stability**

| Voltage | Measurement Frequency (MHz) | | | |
|---|---|---|---|---|
| (V) | 5595 MHz | | | |
| | 0 Minute | 2 Minute | 5 Minute | 10 Minute |
| 126.50 | 5594.9940 | 5594.9934 | 5594.9926 | 5594.9923 |
| 110.00 | 5594.9934 | 5594.9932 | 5594.9922 | 5594.9920 |
| 93.50 | 5594.9931 | 5594.9930 | 5594.9926 | 5594.9920 |
| Max. Deviation (MHz) | 0.0069 | 0.0070 | 0.0078 | 0.0080 |
| Max. Deviation (ppm) | 1.23 | 1.25 | 1.39 | 1.43 |
| Result | Pass | | | |

**Temperature vs. Frequency Stability**

| Temperature | Measurement Frequency (MHz) | | | |
|---|---|---|---|---|
| (℃) | 5595 MHz | | | |
| | 0 Minute | 2 Minute | 5 Minute | 10 Minute |
| -40 | 5594.9975 | 5594.9969 | 5594.9963 | 5594.9959 |
| -30 | 5594.9987 | 5594.9977 | 5594.9973 | 5594.9963 |
| -20 | 5594.9972 | 5594.9969 | 5594.9960 | 5594.9951 |
| -10 | 5594.9955 | 5594.9947 | 5594.9940 | 5594.9937 |
| 0 | 5594.9954 | 5594.9953 | 5594.9947 | 5594.9945 |
| 10 | 5594.9936 | 5594.9932 | 5594.9922 | 5594.9919 |
| 20 | 5594.9934 | 5594.9927 | 5594.9919 | 5594.9911 |
| 30 | 5594.9891 | 5594.9890 | 5594.9882 | 5594.9880 |
| 40 | 5594.9883 | 5594.9877 | 5594.9869 | 5594.9859 |
| 50 | 5594.9879 | 5594.9873 | 5594.9864 | 5594.9861 |
| 60 | 5594.9880 | 5594.9876 | 5594.9867 | 5594.9862 |
| 70 | 5594.9876 | 5594.9866 | 5594.9856 | 5594.9851 |
| Max. Deviation (MHz) | 0.0124 | 0.0134 | 0.0144 | 0.0149 |
| Max. Deviation (ppm) | 2.22 | 2.39 | 2.57 | 2.66 |
| Result | Pass | | | |

**Mode: 40 MHz / Ant 1**

**Voltage vs. Frequency Stability**

| Voltage | Measurement Frequency (MHz) | | | |
|---|---|---|---|---|
| (V) | 5270 MHz | | | |
| | 0 Minute | 2 Minute | 5 Minute | 10 Minute |
| 126.50 | 5269.9942 | 5269.9933 | 5269.9929 | 5269.9926 |
| 110.00 | 5269.9934 | 5269.9926 | 5269.9921 | 5269.9917 |
| 93.50 | 5269.9932 | 5269.9928 | 5269.9921 | 5269.9920 |
| Max. Deviation (MHz) | 0.0068 | 0.0074 | 0.0079 | 0.0083 |
| Max. Deviation (ppm) | 1.29 | 1.40 | 1.50 | 1.57 |
| Result | Pass | | | |

**Temperature vs. Frequency Stability**

| Temperature | Measurement Frequency (MHz) | | | |
|---|---|---|---|---|
| (℃) | 5270 MHz | | | |
| | 0 Minute | 2 Minute | 5 Minute | 10 Minute |
| -40 | 5269.9992 | 5269.9983 | 5269.9978 | 5269.9968 |
| -30 | 5269.9980 | 5269.9977 | 5269.9975 | 5269.9968 |
| -20 | 5269.9978 | 5269.9976 | 5269.9970 | 5269.9962 |
| -10 | 5269.9971 | 5269.9968 | 5269.9961 | 5269.9956 |
| 0 | 5269.9970 | 5269.9961 | 5269.9952 | 5269.9943 |
| 10 | 5269.9950 | 5269.9940 | 5269.9931 | 5269.9929 |
| 20 | 5269.9934 | 5269.9931 | 5269.9927 | 5269.9923 |
| 30 | 5269.9891 | 5269.9889 | 5269.9880 | 5269.9876 |
| 40 | 5269.9884 | 5269.9874 | 5269.9867 | 5269.9859 |
| 50 | 5269.9882 | 5269.9874 | 5269.9867 | 5269.9865 |
| 60 | 5269.9864 | 5269.9861 | 5269.9851 | 5269.9841 |
| 70 | 5269.9877 | 5269.9875 | 5269.9871 | 5269.9868 |
| Max. Deviation (MHz) | 0.0136 | 0.0139 | 0.0149 | 0.0159 |
| Max. Deviation (ppm) | 2.58 | 2.64 | 2.83 | 3.02 |
| Result | Pass | | | |

**Voltage vs. Frequency Stability**

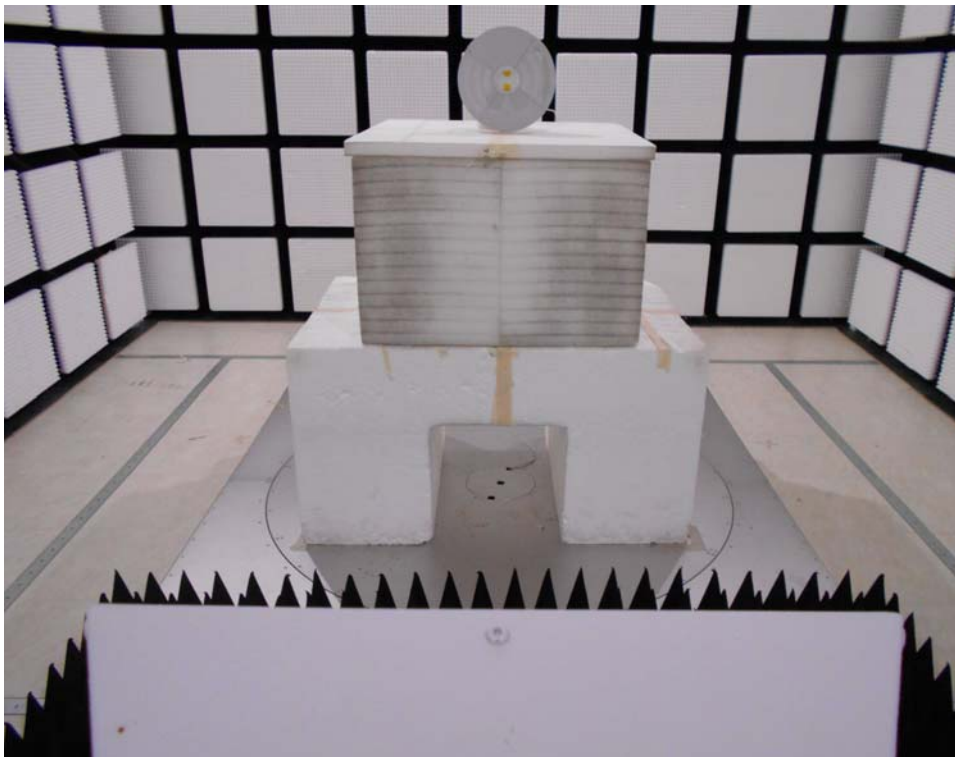
| Voltage | Measurement Frequency (MHz) | | | |
|---|---|---|---|---|
| (V) | 5550 MHz | | | |
| | 0 Minute | 2 Minute | 5 Minute | 10 Minute |
| 126.50 | 5549.9943 | 5549.9937 | 5549.9933 | 5549.9925 |
| 110.00 | 5549.9934 | 5549.9931 | 5549.9921 | 5549.9917 |
| 93.50 | 5549.9927 | 5549.9925 | 5549.9920 | 5549.9918 |
| Max. Deviation (MHz) | 0.0073 | 0.0075 | 0.0080 | 0.0083 |
| Max. Deviation (ppm) | 1.32 | 1.35 | 1.44 | 1.50 |
| Result | Pass | | | |

**Temperature vs. Frequency Stability**

| Temperature | Measurement Frequency (MHz) | | | |
|---|---|---|---|---|
| (℃) | 5550 MHz | | | |
| | 0 Minute | 2 Minute | 5 Minute | 10 Minute |
| -40 | 5549.9998 | 5549.9996 | 5549.9995 | 5549.9988 |
| -30 | 5549.9985 | 5549.9979 | 5549.9972 | 5549.9965 |
| -20 | 5549.9976 | 5549.9973 | 5549.9966 | 5549.9961 |
| -10 | 5549.9968 | 5549.9960 | 5549.9953 | 5549.9944 |
| 0 | 5549.9966 | 5549.9957 | 5549.9954 | 5549.9951 |
| 10 | 5549.9946 | 5549.9937 | 5549.9936 | 5549.9927 |
| 20 | 5549.9934 | 5549.9930 | 5549.9925 | 5549.9917 |
| 30 | 5549.9891 | 5549.9882 | 5549.9872 | 5549.9871 |
| 40 | 5549.9875 | 5549.9873 | 5549.9872 | 5549.9866 |
| 50 | 5549.9871 | 5549.9870 | 5549.9860 | 5549.9851 |
| 60 | 5549.9852 | 5549.9842 | 5549.9836 | 5549.9827 |
| 70 | 5549.9849 | 5549.9843 | 5549.9833 | 5549.9827 |
| Max. Deviation (MHz) | 0.0151 | 0.0158 | 0.0167 | 0.0173 |
| Max. Deviation (ppm) | 2.72 | 2.85 | 3.01 | 3.12 |
| Result | Pass | | | |

# 1. Photographs of Radiated Emissions Test Configuration

**FRONT VIEW**



**REAR VIEW**