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ETSI EN 300 328 V2.2.2 (2019-07)

TEST REPORT

For

SHENZHEN TENDA TECHNOLOGY CO., LTD.

6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052

Tested Model: CP3
Multiple Models: RP3

| | |
|--|---|
| Report Type: Amended Report | Product Type: 3MP Security Pan/Tilt Camera |
| Report Number: 2402T75014E-22A1 | |
| Report Date: 2025/5/19 | |
| Reviewed By: | Ivy Tang Project Engineer <i>Ivy Tang</i> |
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DOCUMENT REVISION HISTORY

| Revision Number | Report Number | Description of Revision | Date of Revision |
|-----------------|------------------|-------------------------|------------------|
| 1.0 | 2402T75014E-22 | Original Report | 2024/6/5 |
| 2.0 | 2402T75014E-22A1 | Amended Report | 2025/5/19 |

Note: This is the amended report application which was based on the original report. The differences between them as following:

1. Add an adapter (Adapter 3#);

The change between the previous equipment and the current equipment is stated and guaranteed by the applicant. The difference between them will not affect the test results, we will keep the test data, test photos, but update the EUT photos.

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

| | | |
|----------------------|---------|-------------------------------------|
| Product Name: | | 3MP Security Pan/Tilt Camera |
| EUT Model: | | CP3 |
| Multiple Models: | | RP3 |
| Model Difference: | | Refer to Dos |
| Rated Input Voltage: | | 5Vdc from adapter |
| Adapter 1# | Model: | GQ12-050100-ZB |
| | Input: | 100-240Vac 50/60Hz 0.4A MAX |
| | Output: | 5.0Vdc 1.0A 5.0W |
| Adapter 2# | Model: | GQ12-050100-ZG |
| | Input: | 100-240Vac 50/60Hz 0.4A MAX |
| | Output: | 5.0Vdc 1.0A 5.0W |
| Adapter 3# | Model: | SW-050100 |
| | Input: | 100-240Vac 50/60Hz 0.5A |
| | Output: | 5.0Vdc 1.0A 5.0W |
| Serial Number: | | 2L4E-1 (RF Conducted) 2L4E-2(RE) |
| EUT Received Date: | | 2024/5/10 |
| EUT Received Status: | | Good |

Technical Specification

| | | |
|----------------------------------|-----------|--|
| Operation Frequency Range (MHz): | | 802.11b/g/n20/ax20: 2412-2472 802.11n40/ax40: 2422-2462 |
| RF Output Power (EIRP) (dBm): | | 19.79 |
| Number of Chains | Transmit: | 1 |
| | Receive: | 1 |
| Antenna Gain (dBi)^A: | | 2.71 |
| Modulation Type: | | DSSS, OFDM, OFDMA |

Objective

This report is prepared on behalf of **SHENZHEN TENDA TECHNOLOGY CO.,LTD.** in accordance with ETSI EN 300328 V2.2.2 (2019-07), Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum.

The objective is to determine the compliance of EUT with ETSI EN 300328 V2.2.2 (2019-07).

Test Methodology

All measurements contained in this report were conducted with ETSI EN 300328 V2.2.2 (2019-07).

Measurement Uncertainty

| Parameter | Flab | Maximum allow uncertainty |
|-----------------------------------|-------------------------|---------------------------|
| Occupied Channel Bandwidth | $\pm 5 \%$ | $\pm 5 \%$ |
| RF output power, conducted | $\pm 0.61 \text{ dB}$ | $\pm 1.5 \text{ dB}$ |
| Power Spectral Density, conducted | $\pm 3 \text{ dB}$ | $\pm 3 \text{ dB}$ |
| Unwanted Emissions, conducted | $\pm 2.47 \text{ dB}$ | $\pm 3 \text{ dB}$ |
| All emissions, radiated | $\pm 3.62 \text{ dB}$ | $\pm 6 \text{ dB}$ |
| Temperature | $\pm 1 ^\circ \text{C}$ | $\pm 3 ^\circ \text{C}$ |
| Supply voltages | $\pm 0.4 \%$ | $\pm 3 \%$ |
| Duty Cycle | 1% | $\pm 5 \%$ |

Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Declarations

The information marked ▲ is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in engineering mode which was provided by manufacturer. 13 channels are provided to testing as below table:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 1 | 2412 | 8 | 2447 |
| 2 | 2417 | 9 | 2452 |
| 3 | 2422 | 10 | 2457 |
| 4 | 2427 | 11 | 2462 |
| 5 | 2432 | 12 | 2467 |
| 6 | 2437 | 13 | 2472 |
| 7 | 2442 | / | / |

For lowest, middle and highest channel, 802.11b, 802.11g, 802.11n-HT20 and 802.11 ax20 modes were tested with Channel 1, 7 and 13; 802.11n-HT40 and 802.11 ax modes were tested with Channel 3, 7 and 11.

The extreme temperature test conditions which were declared by the manufacturer and the normal conditions are as below:

NT: Normal Temperature +25°C

LT: Low Temperature 0°C

HT: High Temperature +40°C

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

Software "SecureCRT[▲]" was used for setting device works in engineering mode, and the maximum power level was configured as following setting, which was provided by manufacturer[▲]. The worst-case data rates are determined to be as follows for each mode based upon investigation by measuring the average power and PSD across all data rates bandwidths, and modulations.

| Mode | Frequency (MHz) | Data rate (Mbps) | Power level |
|-------------|-----------------|------------------|-------------|
| 802.11 b | 2412 | 1M | 17 |
| | 2442 | 1M | 17 |
| | 2472 | 1M | 17 |
| 802.11 g | 2412 | 6M | 21 |
| | 2442 | 6M | 21 |
| | 2472 | 6M | 21 |
| 802.11n 20 | 2412 | MCS0 | 21 |
| | 2442 | MCS0 | 21 |
| | 2472 | MCS0 | 21 |
| 802.11n 40 | 2422 | MCS0 | 21 |
| | 2442 | MCS0 | 21 |
| | 2462 | MCS0 | 21 |
| 802.11ax 20 | 2412 | MCS0 | 21 |
| | 2442 | MCS0 | 21 |
| | 2472 | MCS0 | 21 |

| Mode | Frequency (MHz) | Data rate (Mbps) | Power level |
|-------------|-----------------|------------------|-------------|
| 802.11ax 40 | 2422 | MCS0 | 21 |
| | 2442 | MCS0 | 21 |
| | 2462 | MCS0 | 21 |

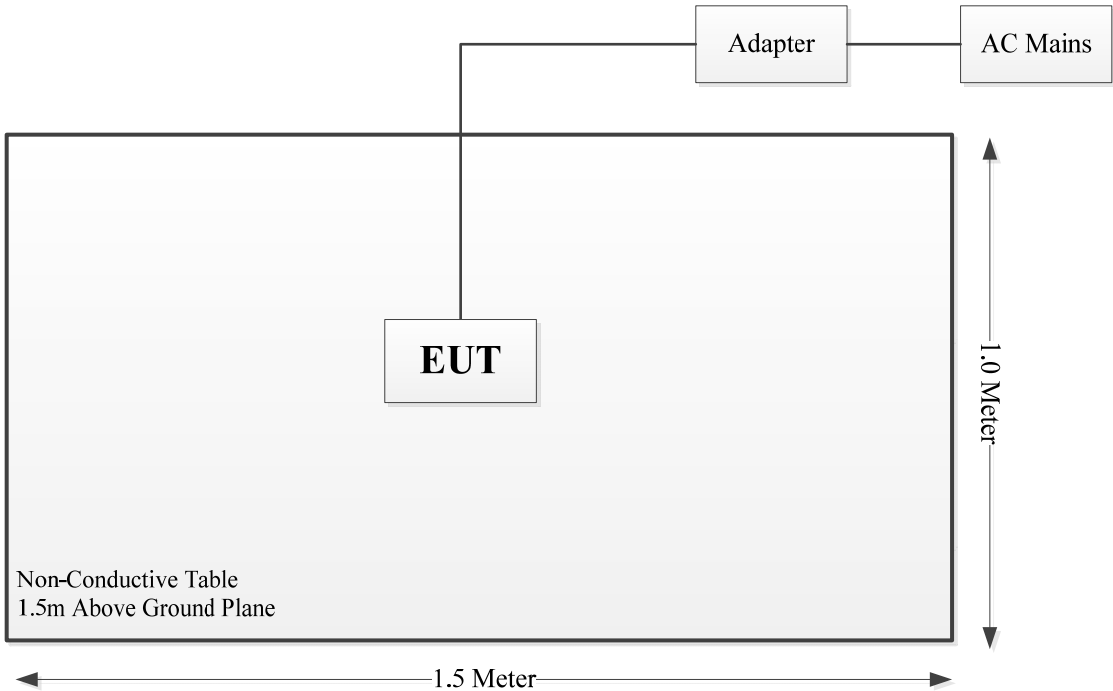
Support Equipment List and Details

| Manufacturer | Description | Model | Serial Number |
|--------------|-------------|-------|---------------|
| / | / | / | / |

Support Cable List and Details

| Cable Description | Shielding Cable | Ferrite Core | Length (m) | From Port | To |
|-------------------|-----------------|--------------|------------|-----------|-----|
| USB Cable | no | no | 1.5 | AC Mains | EUT |

Block Diagram of Test Setup



Test Equipment List

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|---------------------------------------|-------------------------------------|----------------------|-------------------|------------------|----------------------|
| Radiated emissions below 1GHz | | | | | |
| Sunol Sciences | Hybrid Antenna | JB3 | A060611-1 | 2023/9/6 | 2026/9/5 |
| Narda | Coaxial Attenuator | 779-6dB | 04269 | 2023/9/6 | 2026/9/5 |
| Unknown | Coaxial Cable | C-NJNJ-50 | C-1000-01 | 2023/8/1 | 2024/7/31 |
| Unknown | Coaxial Cable | C-NJNJ-50 | C-0400-04 | 2023/8/1 | 2024/7/31 |
| Unknown | Coaxial Cable | C-NJNJ-50 | C-0530-01 | 2023/8/1 | 2024/7/31 |
| Sonoma | Amplifier | 310N | 185914 | 2023/8/1 | 2024/7/31 |
| R&S | EMI Test Receiver | ESCI | 100224 | 2023/8/18 | 2024/8/17 |
| EMCO | Adjustable Dipole Antenna | 3121C | 9109-753 | N/A | N/A |
| Micro-Coax | Coaxial Cable | UFA210B | 99G1448 | 2023/9/9 | 2024/9/8 |
| Agilent | Signal Generator | E8247C | MY43321350 | 2023/10/18 | 2024/10/17 |
| Radiated emissions above 1 GHz | | | | | |
| ETS-Lindgren | Horn Antenna | 3115 | 000 527 35 | 2023/9/7 | 2026/9/6 |
| AH | Horn Antenna | SAS-571 | 1177 | 2023/2/22 | 2026/2/21 |
| Xinhang Macrowave | Coaxial Cable | XH750A-N/J-SMA/J-10M | 20231117004 #0001 | 2023/11/17 | 2024/11/16 |
| Micro-Coax | Coaxial Cable | UFA210B | 99G1448 | 2023/9/9 | 2024/9/8 |
| Agilent | Signal Generator | E8247C | MY43321350 | 2023/10/18 | 2024/10/17 |
| AH | Preamplifier | PAM-0118P | 469 | 2023/8/19 | 2024/8/18 |
| R&S | Spectrum Analyzer | FSV40 | 101944 | 2023/10/18 | 2024/10/17 |
| E-Microwave | Band Rejection Filter | OBSF-2400-2483.5-S | OE01601525 | 2024/2/21 | 2025/2/20 |
| Mini-Circuits | High Pass Filter | VHF-6010+ | 31118 | 2023/12/1 | 2024/11/30 |
| RF conducted | | | | | |
| R&S | Wideband Radio Communication Tester | CMW500 | 147473 | 2023/10/18 | 2024/10/17 |
| BACL | TEMP&HUMI Test Chamber | BTH-150-40 | 30173 | 2023/10/18 | 2024/10/17 |
| Keysight | MXA Signal Analyzer | N9020A | MY48490106 | 2023/10/18 | 2024/10/17 |
| Agilent | MXG Vector Signal Generator | N5182A | MY49060274 | 2023/10/18 | 2024/10/17 |
| Agilent | MXG Analog Signal Generator | N5181A | MY48180151 | 2023/10/18 | 2024/10/17 |
| Tonscend | RF Control Unit | JS0806-2 | 19G8060171 | 2023/10/18 | 2024/10/17 |

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Environmental Conditions

| Test Site: | Radiated emissions below 1GHz | Radiated emissions above 1GHz | RF conducted | RF conducted (Adaptivity) |
|--------------------|-------------------------------|-------------------------------|--------------|---------------------------|
| Temperature: | 26.0 °C | 24.4 °C | 25.4 °C | 25.9 °C |
| Relative Humidity: | 51.0 % | 67.0 % | 50% | 70% |
| ATM Pressure: | 99.9 kPa | 100.2 kPa | 100.9kPa | 100.3kPa |
| Tester: | Zoo Zou | Leo Xiao | Stu Song | Stu Song |
| Test Date: | 2024/5/20 | 2024/5/23 | 2024/5/21 | 2024/5/28 |

SUMMARY OF TEST RESULTS

| SN | Rule and Clause | Description of Test | Test Result |
|----|----------------------------|--|------------------|
| 1 | EN 300 328 Clause 4.3.2.2 | RF output power | Compliant* |
| 2 | EN 300 328 Clause 4.3.2.3 | Power Spectral Density | Compliant* |
| 3 | EN 300 328 Clause 4.3.2.4 | Duty cycle, Tx-Sequence, Tx-gap | Not applicable* |
| 4 | EN 300 328 Clause 4.3.2.5 | Medium Utilization (MU) factor | Not applicable* |
| 5 | EN 300 328 Clause 4.3.2.6 | Adaptivity | Compliant* |
| 6 | EN 300 328 Clause 4.3.2.7 | Occupied Channel Bandwidth | Compliant* |
| 7 | EN 300 328 Clause 4.3.2.8 | Transmitter unwanted emissions in the out-of-band domain | Compliant* |
| 8 | EN 300 328 Clause 4.3.2.9 | Transmitter unwanted emissions in the spurious domain | Compliant* |
| 9 | EN 300 328 Clause 4.3.2.10 | Receiver spurious emissions | Compliant* |
| 10 | EN 300 328 Clause 4.3.2.11 | Receiver Blocking | Compliant* |
| 11 | EN 300 328 Clause 4.3.2.12 | Geo-location capability | Not applicable** |

Note:

The applicant declared that the equipment is adaptive equipment.

Not applicable*: The test is not applicable for adaptive equipment.

Not applicable:** The manufacturer declared the device without Geo-location capability.

Compliant*: The test data and test related information was totally copied from the original report.

1 – RF OUTPUT POWER

Definition

The RF output power is defined as the mean equivalent isotropic radiated power (e.i.r.p.) of the equipment during a transmission burst.

Limit

The RF output power for non-FHSS equipment shall be equal to or less than 20 dBm.

For Non-adaptive FHSS equipment, the manufacturer may have declared a reduced RF Output Power (see clause 5.4.1 m)) and associated Duty Cycle (see clause 5.4.1 e)) that will ensure that the equipment meets the requirement for the Medium Utilization (MU) factor further described in clause 4.3.2.5. This is verified by the conformance test referred to in clause 4.3.2.5.4.

For non-adaptive non-FHSS equipment, where the manufacturer has declared an RF output power of less than 20 dBm e.i.r.p., the RF output power shall be equal to or less than that declared value.

This limit shall apply for any combination of power level and intended antenna assembly.

Test Procedure

The test procedure shall be as follows:

Step 1:

- Use a fast power sensor suitable for 2,4 GHz and capable of minimum 1 MS/s.
 - Use the following settings:
 - Sample speed 1 MS/s or faster.
 - The samples shall represent the RMS power of the signal.
 - Measurement duration: For non-adaptive equipment: equal to the observation period defined in clause 4.3.1.3.2 or clause 4.3.2.4.2. For adaptive equipment, the measurement duration shall be long enough to ensure a minimum number of bursts (at least 10) are captured.
- For adaptive equipment, to increase the measurement accuracy, a higher number of bursts may be used.

Step 2:

- For conducted measurements on devices with one transmit chain:
 - Connect the power sensor to the transmit port, sample the transmit signal and store the raw data. Use these stored samples in all following steps.
- For conducted measurements on devices with multiple transmit chains:
 - Connect one power sensor to each transmit port for a synchronous measurement on all transmit ports.
 - Trigger the power sensors so that they start sampling at the same time. Make sure the time difference between the samples of all sensors is less than 500 ns.
 - For each individual sampling point (time domain), sum the coincident power samples of all ports and store them. Use these summed samples in all following steps.

Step 3:

- Find the start and stop times of each burst in the stored measurement samples.

The start and stop times are defined as the points where the power is at least 30 dB below the highest value of the stored samples in step 2.

In case of insufficient dynamic range, the value of 30 dB may need to be reduced appropriately.

Step 4:

- Between the start and stop times of each individual burst calculate the RMS power over the burst using the formula below. The start and stop points shall be included. Save these P_{burst} values, as well as the start and stop times for each burst.

$$P_{burst} = \frac{1}{k} \sum_{n=1}^k P_{sample}(n)$$

with 'k' being the total number of samples and 'n' the actual sample number

Step 5:

- The highest of all P_{burst} values (value "A" in dBm) will be used for maximum e.i.r.p. calculations.

Step 6:

- Add the (stated) antenna assembly gain "G" in dBi of the individual antenna.
- If applicable, add the additional beamforming gain "Y" in dB.
- If more than one antenna assembly is intended for this power setting, the maximum overall antenna gain (G or G + Y) shall be used.
- The RF Output Power (P) shall be calculated using the formula below:

$$P = A + G + Y$$

- This value, which shall comply with the limit given in clause 4.3.1.2.3 or clause 4.3.2.2.3, shall be recorded in the test report.

Test Data

Test Result: *Compliant. Please refer to the EXHIBIT D.*

2 - POWER SPECTRAL DENSITY

Definition

The Power Spectral Density is the mean equivalent isotropically radiated power (e.i.r.p.) spectral density in a 1 MHz bandwidth during a transmission burst.

Limit

The maximum Power Spectral Density for non-FHSS equipment is 10 dBm per MHz.

Test Procedure

The transmitter shall be connected to a spectrum analyser and the Power Spectral Density as defined in clause 4.3.2.3 shall be measured and recorded.

The test procedure shall be as follows:

Step 1:

Connect the UUT to the spectrum analyser and use the following settings:

- Start Frequency: 2 400 MHz
- Stop Frequency: 2 483.5 MHz
- Resolution BW: 10 kHz
- Video BW: 30 kHz
- Sweep Points: > 8 350; for spectrum analysers not supporting this number of sweep points, the frequency band may be segmented

NOTE: For spectrum analysers not supporting this number of sweep points, the frequency band may be segmented.

- Detector: RMS
- Trace Mode: Max Hold
- Sweep time: For non-continuous transmissions: $2 \times \text{Channel Occupancy Time} \times \text{number of sweep points}$
For continuous transmissions: 10 s; the sweep time may be increased further until a value where the sweep time has no impact on the RMS value of the signal.

For non-continuous signals, wait for the trace to stabilize. Save the data (trace data) set to a file.

Step 2:

For conducted measurements on smart antenna systems using either operating mode 2 or operating mode 3 (see clause 5.3.2.2), repeat the measurement for each of the transmit ports. For each sampling point (frequency domain), add up the coincident power values (in mW) for the different transmit chains and use this as the new data set.

Step 3:

Add up the values for power for all the samples in the file using the formula below.

$$P_{Sum} = \frac{1}{k} \sum_{n=1}^k P_{sample}(n)$$

with 'k' being the total number of samples and 'n' the actual sample number

Step 4:

Normalize the individual values for power (in dBm) so that the sum is equal to the RF Output Power (e.i.r.p.) measured in clause 5.3.2 and save the corrected data. The following formulas can be used:

$$C_{Corr} = P_{Sum} - P_{e.i.r.p}$$

$$P_{Samplecorr}(n) = P_{Sample}(n) - C_{Corr}$$

with 'n' being the actual sample number

Step 5:

Starting from the first sample $P_{Samplecorr}(n)$ (lowest frequency), add up the power (in mW) of the following samples representing a 1 MHz segment and record the results for power and position (i.e. sample #1 to sample #100). This is the Power Spectral Density (e.i.r.p.) for the first 1 MHz segment which shall be recorded.

Step 6:

Shift the start point of the samples added up in step 5 by one sample and repeat the procedure in step 5 (i.e. sample #2 to sample #101).

Step 7:

Repeat step 6 until the end of the data set and record the Power Spectral Density values for each of the 1 MHz segments.

From all the recorded results, the highest value is the maximum Power Spectral Density for the UUT. This value, which shall comply with the limit given in clause 4.3.2.3.3, shall be recorded in the test report.

Test Data

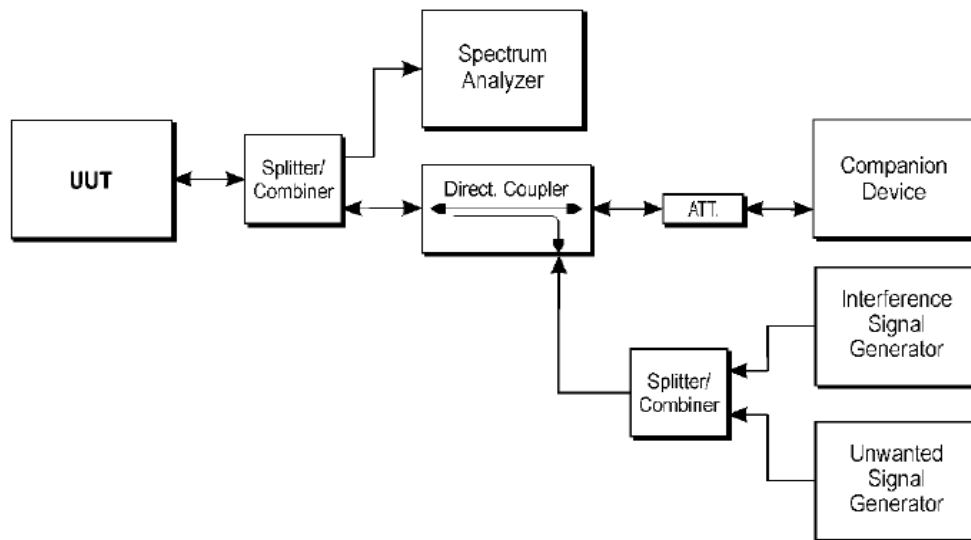
Test Result: *Compliant. Please refer to the EXHIBIT D.*

5 – ADAPTIVITY

Definition

Adaptive non-FHSS using LBT is a mechanism by which non-FHSS adaptive equipment avoids transmissions in a channel in the presence of an interfering signal in that channel. This mechanism shall operate as intended in the presence of an unwanted signal on frequencies other than those of the operating band.

Test Setup Block Diagram



Test Procedure

The measurement procedure refer to ETSI EN 300 328 V2.2.2 (2019-07) §5.4.6

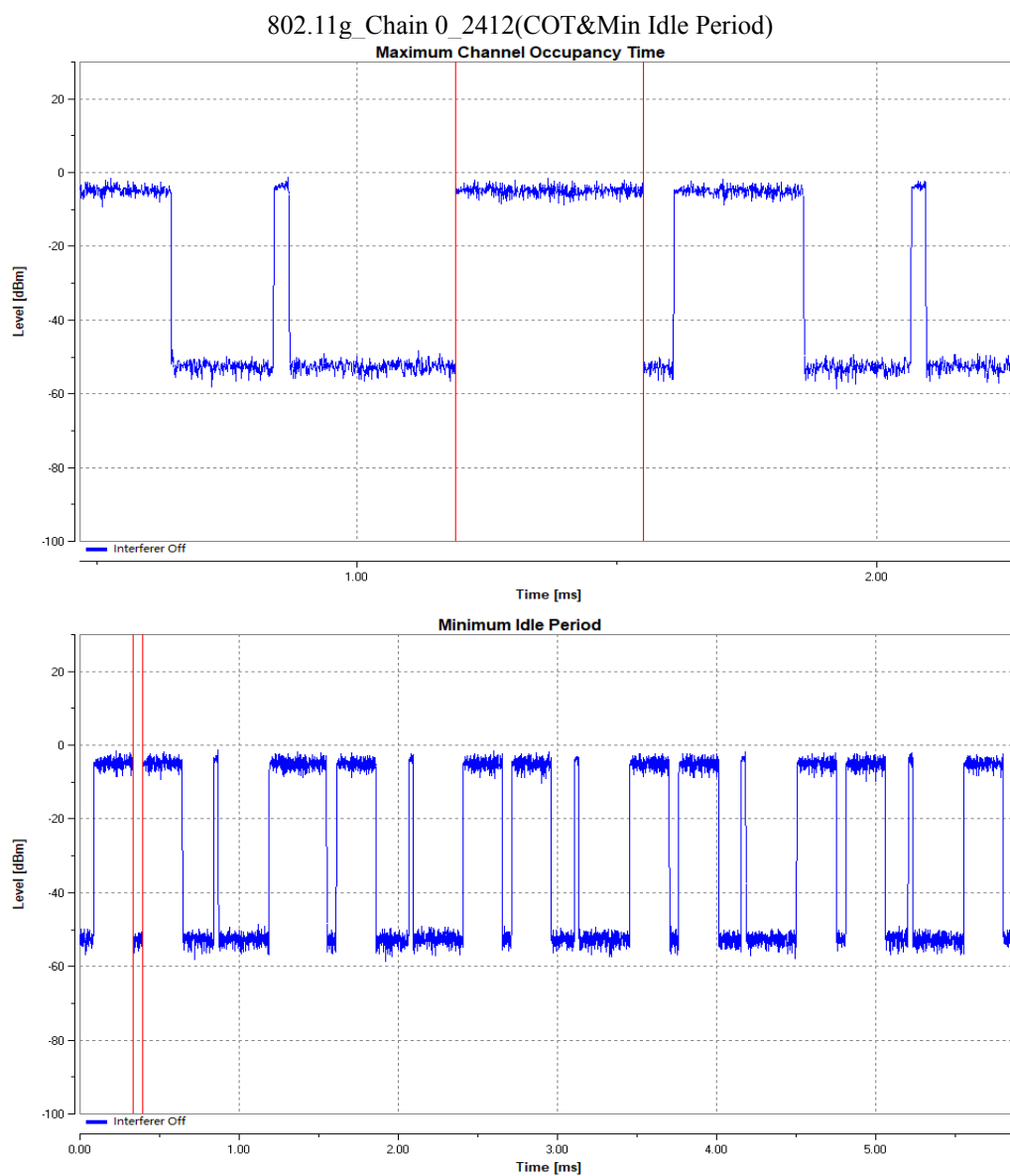
Test Data

Test Result: Compliant. Please refer to following tables.

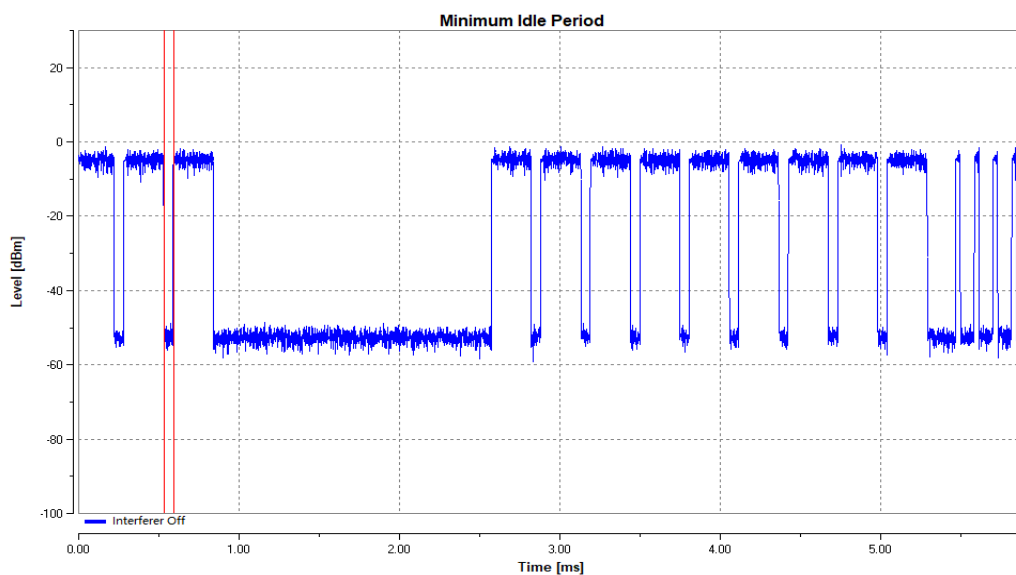
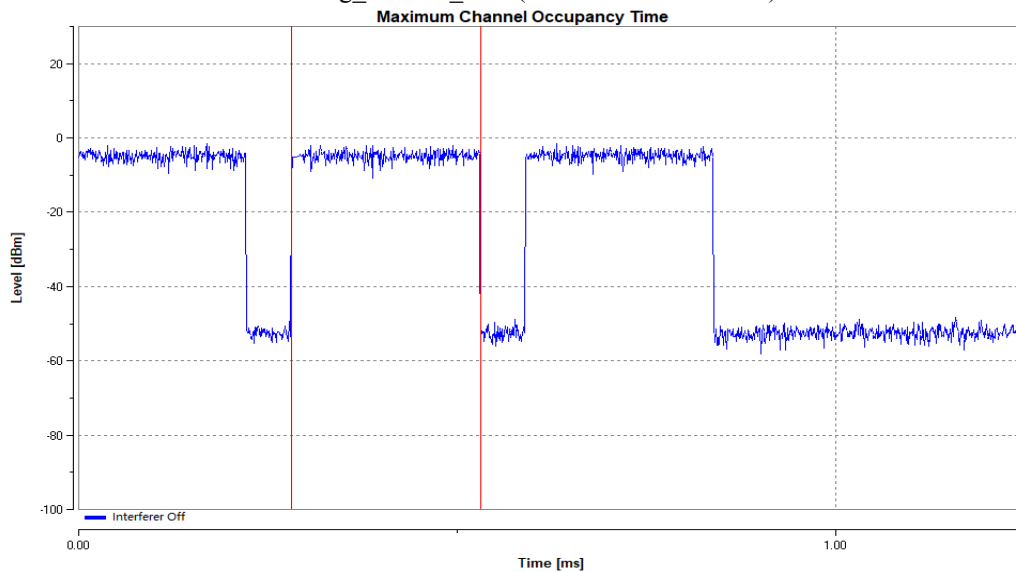
| Test Mode | Channel | Max.COT [ms] | Limit[ms] | Min. Idle Time[ms] | Limit[ms] | Verdict |
|-----------|---------|--------------|-----------|--------------------|-----------|---------|
| 11G | 2412 | 0.361 | 13 | 0.059 | 0.018 | PASS |
| | 2472 | 0.250 | 13 | 0.059 | 0.018 | PASS |

| Test Mode | Channel | Add Signal Type | Add Signal Time [ms] | Add Signal Level[dbm] | Max. Short Time [%] | Limit [%] | Verdict |
|-----------|---------|-----------------|----------------------|-----------------------|---------------------|-----------|---------|
| 11G | 2412 | AWGN | 3000 | -69.79 | 8.40 | ≤ 10 | PASS |
| | | CW | 63000 | -35.00 | 2.80 | ≤ 10 | PASS |
| | 2472 | AWGN | 3000 | -69.79 | 8.40 | ≤ 10 | PASS |
| | | CW | 63000 | -35.00 | 2.80 | ≤ 10 | PASS |

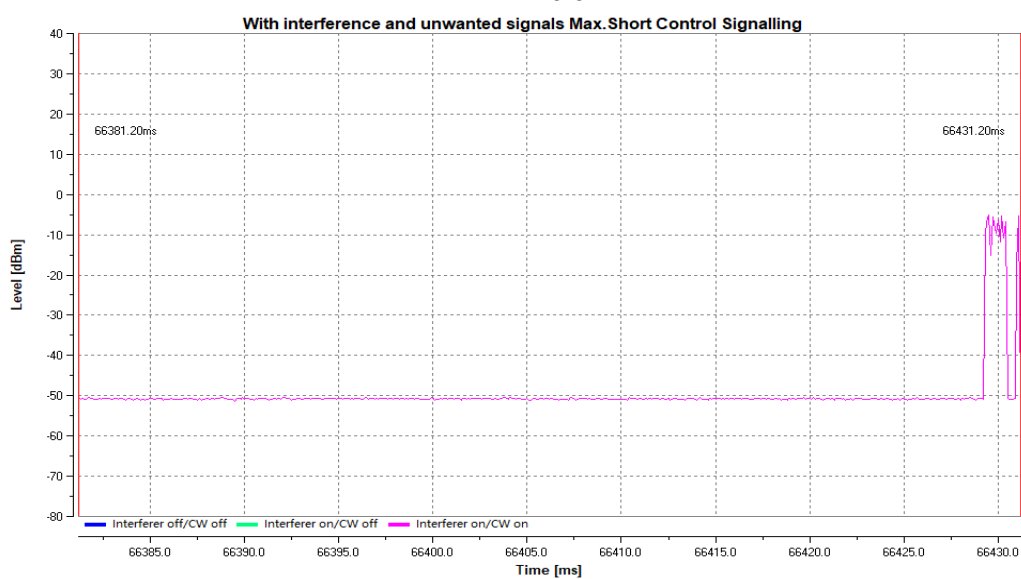
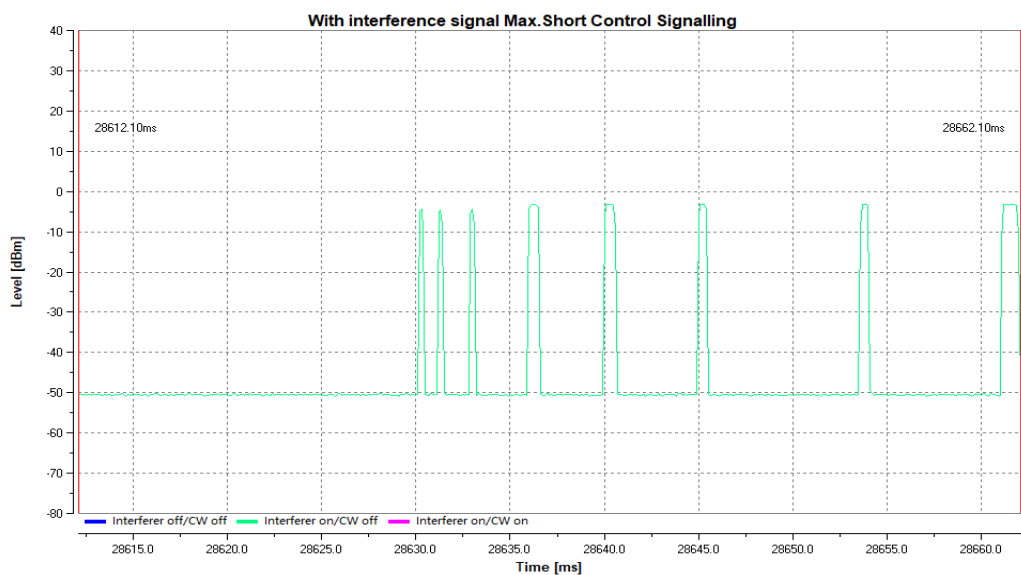
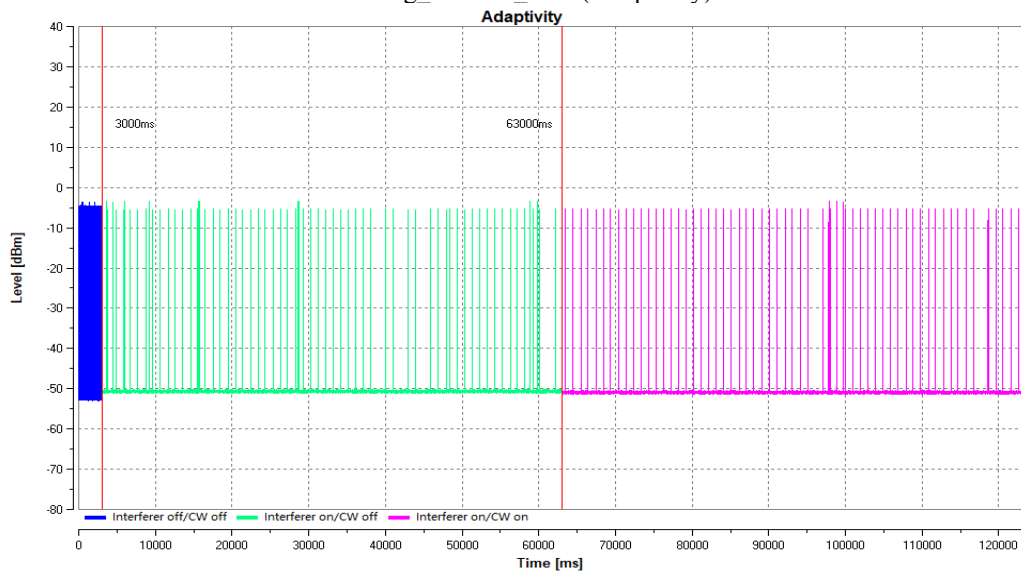
Please refer to following plots:



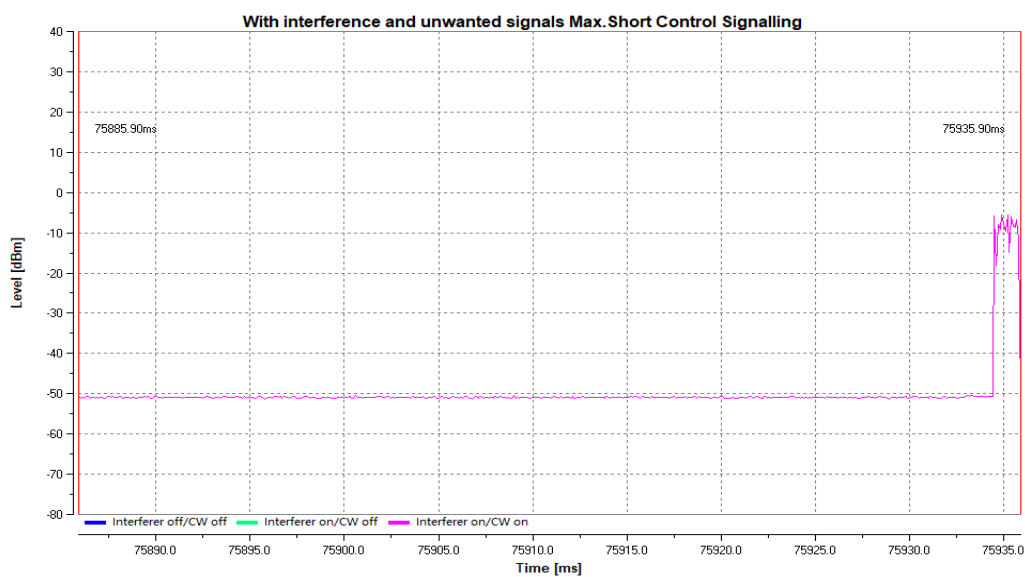
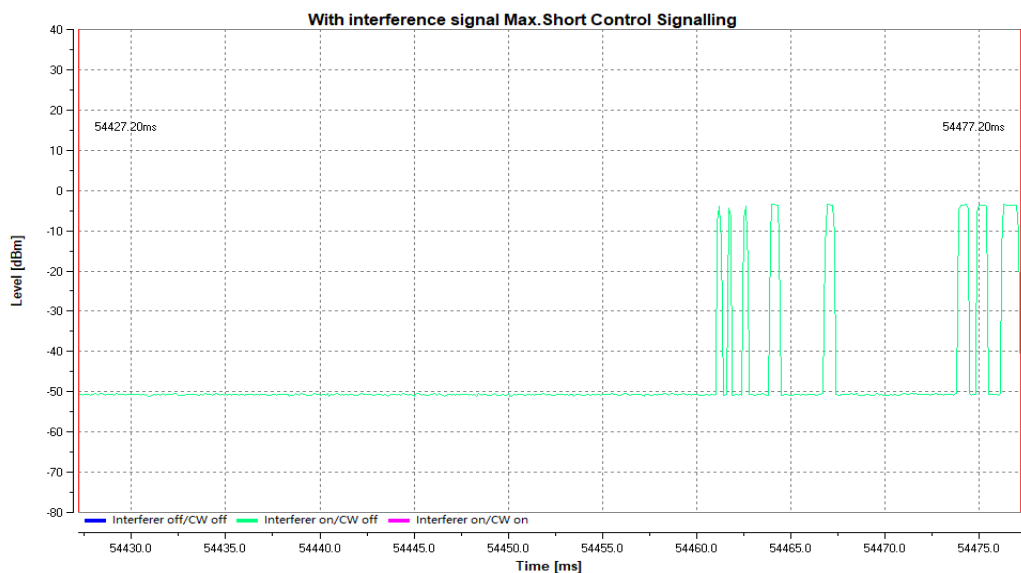
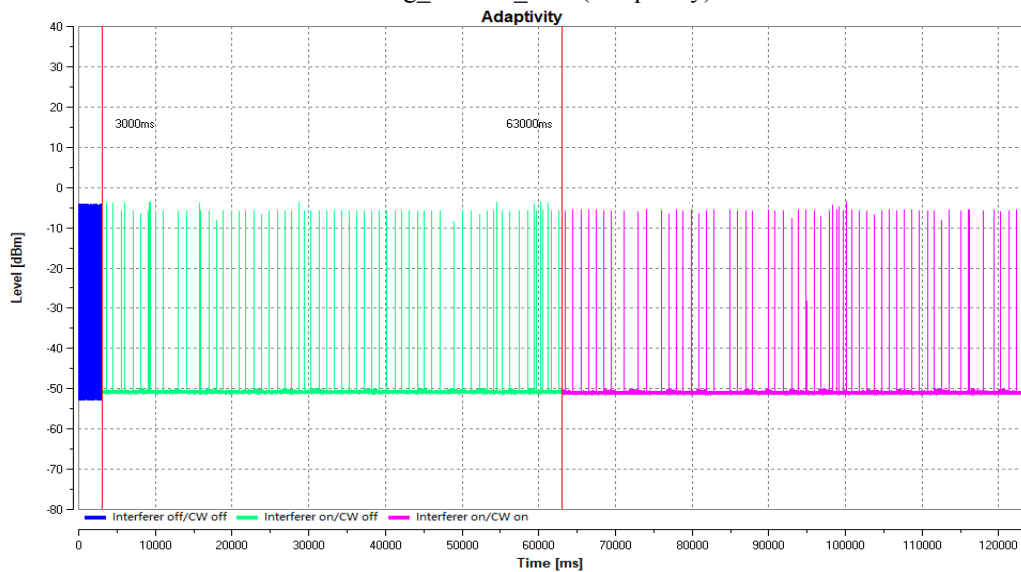
802.11g_Chain 0_2472(COT&Min Idle Period)



802.11g_Chain 0_2412(Adaptivity)



802.11g_Chain 0_2472(Adaptivity)



6 – OCCUPIED CHANNEL BANDWIDTH

Definition

The Occupied Channel Bandwidth is the bandwidth that contains 99 % of the power of the signal.

Limit

The Occupied Channel Bandwidth shall fall completely within the band given in clause 1.

In addition, for non-adaptive equipment using wide band modulations other than FHSS and with e.i.r.p greater than 10 dBm, the occupied channel bandwidth shall be less than 20 MHz.

Test Procedure

The measurement procedure shall be as follows:

Step 1:

Connect the UUT to the spectrum analyser and use the following settings:

- Centre Frequency: The centre frequency of the channel under test
- Resolution BW: $\sim 1\%$ of the span without going below 1%
- Video BW: $3 \times \text{RBW}$
- Frequency Span for other types of equipment: $2 \times \text{Nominal Channel Bandwidth}$
- Detector Mode: RMS
- Trace Mode: Max Hold
- Sweep time: 1 s

Step 2:

Wait for the trace to stabilize.

Find the peak value of the trace and place the analyser marker on this peak.

Step 3:

Use the 99 % bandwidth function of the spectrum analyser to measure the Occupied Channel Bandwidth of the UUT. This value shall be recorded.

NOTE: Make sure that the power envelope is sufficiently above the noise floor of the analyser to avoid the noise signals left and right from the power envelope being taken into account by this measurement.

Test Data

Test Result: Compliant. Please refer to the EXHIBIT D.

7 – TRANSMITTER UNWANTED EMISSION IN THE OUT-OF-BAND DOMAIN

Definition

According to ETSI EN 300 328 V2.2.2 (2019-07) §4.3.2.8.2, Transmitter unwanted emissions in the out-of-band domain are emissions when the equipment is in Transmit mode, on frequencies immediately outside the allocated band, but excluding unwanted emissions in the spurious domain.

Limit

The transmitter unwanted emissions in the out-of-band domain shall not exceed the values provided by the mask in figure 3.

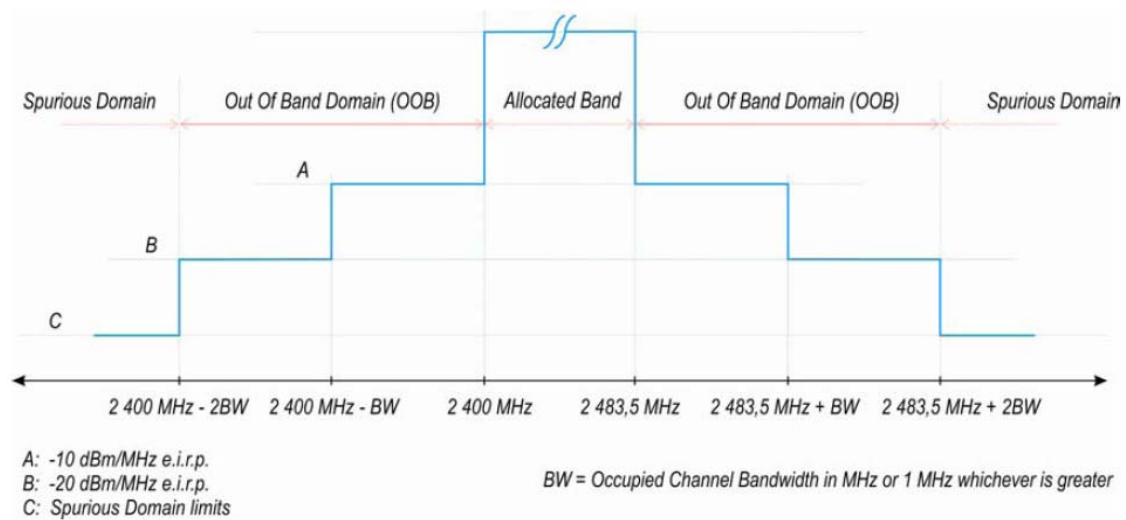


Figure 3: Transmit mask

Test Procedure

According to ETSI EN 300 328 V2.2.2 (2019-07) §5.4.8

Test Data

Test Result: Compliant. Please refer to the EXHIBIT D.

8 – TRANSMITTER UNWANTED EMISSION IN THE SPURIOUS DOMAIN

Definition

Transmitter unwanted emissions in the spurious domain are emissions outside the allocated band and outside the Out-of-band Domain as indicated in figure 3 when the equipment is in Transmit mode.

Limit

The transmitter unwanted emissions in the spurious domain shall not exceed the values given in the following table. In case of equipment with antenna connectors, these limits apply to emissions at the antenna port (conducted). For emissions radiated by the cabinet or emissions radiated by integral antenna equipment (without antenna connectors), these limits are e.r.p. for emissions up to 1 GHz and as e.i.r.p. for emissions above 1 GHz.

Transmitter limits for spurious emissions

| Frequency range | Maximum power | Bandwidth |
|---------------------|---------------|-----------|
| 30 MHz to 47 MHz | -36 dBm | 100 kHz |
| 47 MHz to 74 MHz | -54 dBm | 100 kHz |
| 74 MHz to 87,5 MHz | -36 dBm | 100 kHz |
| 87,5 MHz to 118 MHz | -54 dBm | 100 kHz |
| 118 MHz to 174 MHz | -36 dBm | 100 kHz |
| 174 MHz to 230 MHz | -54 dBm | 100 kHz |
| 230 MHz to 470 MHz | -36 dBm | 100 kHz |
| 470 MHz to 694 MHz | -54 dBm | 100 kHz |
| 694 MHz to 1 GHz | -36 dBm | 100 kHz |
| 1 GHz to 12,75 GHz | -30 dBm | 1 MHz |

Test Procedure

According to ETSI EN 300 328 V2.2.2 (2019-07) §5.4.9

Test Data**Test Result:** Compliant. Pre-scan all modes, worst case please refer to following tables.**802.11 b low channel****2412 MHz**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------|-------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| 493.66 | H | 45.17 | -60.33 | 0.00 | 0.26 | -60.59 | -54.00 | 6.59 |
| 493.79 | V | 45.38 | -57.43 | 0.00 | 0.26 | -57.69 | -54.00 | 3.69 |
| 4824.00 | H | 60.57 | -56.31 | 14.20 | 1.55 | -43.66 | -30.00 | 13.66 |
| 4824.00 | V | 60.16 | -56.57 | 14.20 | 1.55 | -43.92 | -30.00 | 13.92 |
| 7236.00 | H | 62.02 | -48.18 | 13.01 | 1.59 | -36.76 | -30.00 | 6.76 |
| 7236.00 | V | 61.00 | -49.34 | 13.01 | 1.59 | -37.92 | -30.00 | 7.92 |

802.11 b high channel**2472 MHz**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------|-------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| 493.59 | H | 45.43 | -60.07 | 0.00 | 0.26 | -60.33 | -54.00 | 6.33 |
| 493.31 | V | 45.61 | -57.20 | 0.00 | 0.26 | -57.46 | -54.00 | 3.46 |
| 4944.00 | H | 56.97 | -60.18 | 13.94 | 1.45 | -47.69 | -30.00 | 17.69 |
| 4944.00 | V | 56.39 | -60.09 | 13.94 | 1.45 | -47.60 | -30.00 | 17.60 |
| 7416.00 | H | 57.25 | -52.20 | 13.28 | 1.41 | -40.33 | -30.00 | 10.33 |
| 7416.00 | V | 56.23 | -53.60 | 13.28 | 1.41 | -41.73 | -30.00 | 11.73 |

802.11 g low channel**2412 MHz**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------|-------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| 494.04 | H | 45.03 | -60.46 | 0.00 | 0.26 | -60.72 | -54.00 | 6.72 |
| 493.25 | V | 45.31 | -57.51 | 0.00 | 0.26 | -57.77 | -54.00 | 3.77 |
| 4824.00 | H | 56.23 | -60.65 | 14.20 | 1.55 | -48.00 | -30.00 | 18.00 |
| 4824.00 | V | 53.12 | -63.61 | 14.20 | 1.55 | -50.96 | -30.00 | 20.96 |
| 7236.00 | H | 60.90 | -49.30 | 13.01 | 1.59 | -37.88 | -30.00 | 7.88 |
| 7236.00 | V | 55.73 | -54.61 | 13.01 | 1.59 | -43.19 | -30.00 | 13.19 |

802.11 g high channel**2472 MHz**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------|-------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| 493.71 | H | 45.19 | -60.31 | 0.00 | 0.26 | -60.57 | -54.00 | 6.57 |
| 492.83 | V | 45.56 | -57.26 | 0.00 | 0.25 | -57.51 | -54.00 | 3.51 |
| 4944.00 | H | 50.13 | -67.02 | 13.94 | 1.45 | -54.53 | -30.00 | 24.53 |
| 4944.00 | V | 50.59 | -65.89 | 13.94 | 1.45 | -53.40 | -30.00 | 23.40 |
| 7416.00 | H | 58.56 | -50.89 | 13.28 | 1.41 | -39.02 | -30.00 | 9.02 |
| 7416.00 | V | 59.93 | -49.90 | 13.28 | 1.41 | -38.03 | -30.00 | 8.03 |

802.11 n20 low channel

2412 MHz

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------|-------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| 494.54 | H | 45.32 | -60.17 | 0.00 | 0.26 | -60.43 | -54.00 | 6.43 |
| 493.62 | V | 45.41 | -57.40 | 0.00 | 0.26 | -57.66 | -54.00 | 3.66 |
| 4824.00 | H | 54.11 | -62.77 | 14.20 | 1.55 | -50.12 | -30.00 | 20.12 |
| 4824.00 | V | 54.24 | -62.49 | 14.20 | 1.55 | -49.84 | -30.00 | 19.84 |
| 7236.00 | H | 61.27 | -48.93 | 13.01 | 1.59 | -37.51 | -30.00 | 7.51 |
| 7236.00 | V | 58.80 | -51.54 | 13.01 | 1.59 | -40.12 | -30.00 | 10.12 |

802.11 n20 high channel

2472 MHz

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------|-------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| 493.11 | H | 45.74 | -59.77 | 0.00 | 0.26 | -60.03 | -54.00 | 6.03 |
| 493.37 | V | 45.65 | -57.16 | 0.00 | 0.26 | -57.42 | -54.00 | 3.42 |
| 4944.00 | H | 49.12 | -68.03 | 13.94 | 1.45 | -55.54 | -30.00 | 25.54 |
| 4944.00 | V | 49.78 | -66.70 | 13.94 | 1.45 | -54.21 | -30.00 | 24.21 |
| 7416.00 | H | 58.32 | -51.13 | 13.28 | 1.41 | -39.26 | -30.00 | 9.26 |
| 7416.00 | V | 58.84 | -50.99 | 13.28 | 1.41 | -39.12 | -30.00 | 9.12 |

802.11 n40 low channel

2422 MHz

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------|-------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| 494.57 | H | 45.27 | -60.21 | 0.00 | 0.26 | -60.47 | -54.00 | 6.47 |
| 493.86 | V | 45.44 | -57.37 | 0.00 | 0.26 | -57.63 | -54.00 | 3.63 |
| 4844.00 | H | 51.64 | -65.20 | 14.12 | 1.53 | -52.61 | -30.00 | 22.61 |
| 4844.00 | V | 51.48 | -64.98 | 14.12 | 1.53 | -52.39 | -30.00 | 22.39 |
| 7266.00 | H | 59.59 | -50.49 | 13.10 | 1.56 | -38.95 | -30.00 | 8.95 |
| 7266.00 | V | 56.60 | -53.66 | 13.10 | 1.56 | -42.12 | -30.00 | 12.12 |

802.11 n40 high channel

2462 MHz

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------|-------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| 493.12 | H | 45.59 | -59.91 | 0.00 | 0.26 | -60.17 | -54.00 | 6.17 |
| 493.45 | V | 45.83 | -56.98 | 0.00 | 0.26 | -57.24 | -54.00 | 3.24 |
| 4924.00 | H | 51.85 | -65.10 | 13.92 | 1.46 | -52.64 | -30.00 | 22.64 |
| 4924.00 | V | 50.08 | -66.05 | 13.92 | 1.46 | -53.59 | -30.00 | 23.59 |
| 7386.00 | H | 61.37 | -48.21 | 13.29 | 1.44 | -36.36 | -30.00 | 6.36 |
| 7386.00 | V | 30.20 | -79.72 | 13.29 | 1.44 | -67.87 | -30.00 | 37.87 |

802.11 ax20 low channel**2412 MHz**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------|-------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| 492.87 | H | 45.08 | -60.43 | 0.00 | 0.26 | -60.69 | -54.00 | 6.69 |
| 493.19 | V | 45.26 | -57.56 | 0.00 | 0.26 | -57.82 | -54.00 | 3.82 |
| 4824.00 | H | 52.89 | -63.99 | 14.20 | 1.55 | -51.34 | -30.00 | 21.34 |
| 4824.00 | V | 52.42 | -64.31 | 14.20 | 1.55 | -51.66 | -30.00 | 21.66 |
| 7236.00 | H | 59.87 | -50.33 | 13.01 | 1.59 | -38.91 | -30.00 | 8.91 |
| 7236.00 | V | 61.01 | -49.33 | 13.01 | 1.59 | -37.91 | -30.00 | 7.91 |

802.11 ax20 high channel**2472 MHz**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------|-------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| 493.52 | H | 45.39 | -60.11 | 0.00 | 0.26 | -60.37 | -54.00 | 6.37 |
| 494.43 | V | 45.71 | -57.09 | 0.00 | 0.26 | -57.35 | -54.00 | 3.35 |
| 4944.00 | H | 52.87 | -64.28 | 13.94 | 1.45 | -51.79 | -30.00 | 21.79 |
| 4944.00 | V | 53.50 | -62.98 | 13.94 | 1.45 | -50.49 | -30.00 | 20.49 |
| 7416.00 | H | 58.38 | -51.07 | 13.28 | 1.41 | -39.20 | -30.00 | 9.20 |
| 7416.00 | V | 59.41 | -50.42 | 13.28 | 1.41 | -38.55 | -30.00 | 8.55 |

802.11 ax40 low channel**2422 MHz**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------|-------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| 493.99 | H | 45.55 | -59.94 | 0.00 | 0.26 | -60.20 | -54.00 | 6.20 |
| 494.07 | V | 45.46 | -57.34 | 0.00 | 0.26 | -57.60 | -54.00 | 3.60 |
| 4844.00 | H | 55.53 | -61.31 | 14.12 | 1.53 | -48.72 | -30.00 | 18.72 |
| 4844.00 | V | 52.18 | -64.28 | 14.12 | 1.53 | -51.69 | -30.00 | 21.69 |
| 7266.00 | H | 61.16 | -48.92 | 13.10 | 1.56 | -37.38 | -30.00 | 7.38 |
| 7266.00 | V | 60.31 | -49.95 | 13.10 | 1.56 | -38.41 | -30.00 | 8.41 |

802.11 ax40 high channel**2462 MHz**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------|-------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| 493.28 | H | 45.87 | -59.63 | 0.00 | 0.26 | -59.89 | -54.00 | 5.89 |
| 493.36 | V | 45.91 | -56.90 | 0.00 | 0.26 | -57.16 | -54.00 | 3.16 |
| 4924.00 | H | 51.79 | -65.16 | 13.92 | 1.46 | -52.70 | -30.00 | 22.70 |
| 4924.00 | V | 51.99 | -64.14 | 13.92 | 1.46 | -51.68 | -30.00 | 21.68 |
| 7386.00 | H | 61.39 | -48.19 | 13.29 | 1.44 | -36.34 | -30.00 | 6.34 |
| 7386.00 | V | 60.13 | -49.79 | 13.29 | 1.44 | -37.94 | -30.00 | 7.94 |

Note 1: The unit of antenna gain is dBd for frequency below 1GHz and is dBi for frequency above 1GHz.

Note 2:

Absolute Level = Substituted Level - Cable loss + Antenna Gain

Margin = Limit- Absolute Level

9 – RECEIVER SPURIOUS EMISSIONS

Definition

Receiver spurious emissions are emissions at any frequency when the equipment is in receive mode.

Limit

The receiver spurious emissions shall not exceed the values given in the following table.

In case of equipment with antenna connectors, these limits apply to emissions at the antenna port (conducted). For emissions radiated by the cabinet or emissions radiated by integral antenna equipment (without antenna connectors), these limits are e.r.p. for emissions up to 1 GHz and e.i.r.p. for emissions above 1 GHz.

Spurious emission limits for receivers

| Frequency range | Maximum power | Bandwidth |
|--------------------|---------------|-----------|
| 30 MHz to 1 GHz | -57 dBm | 100 kHz |
| 1 GHz to 12,75 GHz | -47 dBm | 1 MHz |

Test Procedure

According to ETSI EN 300 328 V2.2.2 (2019-07) §5.4.10

Test Data**Test Result:** Compliant. Pre-scan all modes, worst case please refer to following tables.**802.11 b Low channel****2412 MHz**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------|-------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| 493.15 | H | 38.17 | -67.33 | 0.00 | 0.26 | -67.59 | -57.00 | 10.59 |
| 494.70 | V | 38.99 | -63.80 | 0.00 | 0.26 | -64.06 | -57.00 | 7.06 |
| 1362.50 | H | 47.23 | -77.13 | 8.74 | 1.20 | -69.59 | -47.00 | 22.59 |
| 1245.60 | V | 47.30 | -77.90 | 7.76 | 1.14 | -71.28 | -47.00 | 24.28 |

802.11 b High channel**2472 MHz**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------|-------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| 492.89 | H | 38.41 | -67.10 | 0.00 | 0.26 | -67.36 | -57.00 | 10.36 |
| 494.31 | V | 39.14 | -63.66 | 0.00 | 0.26 | -63.92 | -57.00 | 6.92 |
| 1426.30 | H | 47.52 | -77.18 | 9.13 | 1.24 | -69.29 | -47.00 | 22.29 |
| 1542.30 | V | 47.89 | -78.45 | 9.75 | 1.07 | -69.77 | -47.00 | 22.77 |

802.11 g Low channel**2412 MHz**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------|-------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| 493.47 | H | 38.22 | -67.28 | 0.00 | 0.26 | -67.54 | -57.00 | 10.54 |
| 494.56 | V | 38.91 | -63.89 | 0.00 | 0.26 | -64.15 | -57.00 | 7.15 |
| 1362.50 | H | 48.27 | -76.09 | 8.74 | 1.20 | -68.55 | -47.00 | 21.55 |
| 1425.30 | V | 47.75 | -77.41 | 9.13 | 1.24 | -69.52 | -47.00 | 22.52 |

802.11 g High channel**2472 MHz**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------|-------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| 493.31 | H | 38.46 | -67.04 | 0.00 | 0.26 | -67.30 | -57.00 | 10.30 |
| 494.95 | V | 39.13 | -63.66 | 0.00 | 0.26 | -63.92 | -57.00 | 6.92 |
| 1256.80 | H | 47.55 | -76.73 | 7.87 | 1.15 | -70.01 | -47.00 | 23.01 |
| 1297.60 | V | 47.36 | -78.16 | 8.28 | 1.19 | -71.07 | -47.00 | 24.07 |

802.11 n20 Low channel**2412 MHz**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------|-------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| 493.82 | H | 38.12 | -67.38 | 0.00 | 0.26 | -67.64 | -57.00 | 10.64 |
| 494.63 | V | 38.69 | -64.11 | 0.00 | 0.26 | -64.37 | -57.00 | 7.37 |
| 1439.70 | H | 47.14 | -77.82 | 9.20 | 1.26 | -69.88 | -47.00 | 22.88 |
| 1579.30 | V | 48.26 | -78.17 | 9.98 | 0.82 | -69.01 | -47.00 | 22.01 |

802.11 n20 High channel**2472 MHz**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------|-------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| 493.46 | H | 38.38 | -67.12 | 0.00 | 0.26 | -67.38 | -57.00 | 10.38 |
| 493.02 | V | 38.96 | -63.86 | 0.00 | 0.26 | -64.12 | -57.00 | 7.12 |
| 1427.60 | H | 47.81 | -76.92 | 9.14 | 1.24 | -69.02 | -47.00 | 22.02 |
| 1289.30 | V | 47.44 | -78.03 | 8.19 | 1.18 | -71.02 | -47.00 | 24.02 |

802.11 n40 Low channel**2422 MHz**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------|-------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| 493.57 | H | 38.02 | -67.48 | 0.00 | 0.26 | -67.74 | -57.00 | 10.74 |
| 494.82 | V | 38.93 | -63.86 | 0.00 | 0.26 | -64.12 | -57.00 | 7.12 |
| 1039.30 | H | 47.22 | -78.31 | 7.70 | 0.85 | -71.46 | -47.00 | 24.46 |
| 1409.50 | V | 48.31 | -76.62 | 9.05 | 1.21 | -68.78 | -47.00 | 21.78 |

802.11 n40 High channel**2462 MHz**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------|-------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| 493.71 | H | 38.43 | -67.07 | 0.00 | 0.26 | -67.33 | -57.00 | 10.33 |
| 494.43 | V | 39.27 | -63.53 | 0.00 | 0.26 | -63.79 | -57.00 | 6.79 |
| 1247.30 | H | 47.47 | -76.73 | 7.77 | 1.14 | -70.10 | -47.00 | 23.10 |
| 1524.30 | V | 48.67 | -77.62 | 9.65 | 1.19 | -69.16 | -47.00 | 22.16 |

802.11 ax20 Low channel**2412 MHz**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------|-------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| 493.65 | H | 38.32 | -67.18 | 0.00 | 0.26 | -67.44 | -57.00 | 10.44 |
| 494.77 | V | 38.83 | -63.96 | 0.00 | 0.26 | -64.22 | -57.00 | 7.22 |
| 1243.60 | H | 47.35 | -76.82 | 7.74 | 1.13 | -70.21 | -47.00 | 23.21 |
| 1427.70 | V | 48.61 | -76.58 | 9.14 | 1.24 | -68.68 | -47.00 | 21.68 |

802.11 ax20 High channel**2472 MHz**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------|-------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| 493.19 | H | 38.67 | -66.83 | 0.00 | 0.26 | -67.09 | -57.00 | 10.09 |
| 494.34 | V | 39.32 | -63.48 | 0.00 | 0.26 | -63.74 | -57.00 | 6.74 |
| 1642.70 | H | 47.86 | -77.36 | 10.40 | 0.71 | -67.67 | -47.00 | 20.67 |
| 1256.40 | V | 47.66 | -77.61 | 7.86 | 1.15 | -70.90 | -47.00 | 23.90 |

802.11 ax40 Low channel**2422 MHz**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------|-------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| 493.28 | H | 38.14 | -67.36 | 0.00 | 0.26 | -67.62 | -57.00 | 10.62 |
| 494.39 | V | 38.79 | -64.01 | 0.00 | 0.26 | -64.27 | -57.00 | 7.27 |
| 1274.60 | H | 47.69 | -76.74 | 8.05 | 1.16 | -69.85 | -47.00 | 22.85 |
| 1284.30 | V | 48.70 | -76.74 | 8.14 | 1.17 | -69.77 | -47.00 | 22.77 |

802.11 ax40 High channel**2462 MHz**

| Frequency (MHz) | Polar (H/V) | Receiver Reading (dBμV) | Substituted Method | | | Absolute Level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------|-------------------------|-------------------------|------------------------|-----------------|----------------------|-------------|-------------|
| | | | Substituted Level (dBm) | Antenna Gain (dBd/dBi) | Cable Loss (dB) | | | |
| 493.09 | H | 38.51 | -67.00 | 0.00 | 0.26 | -67.26 | -57.00 | 10.26 |
| 494.52 | V | 39.47 | -63.33 | 0.00 | 0.26 | -63.59 | -57.00 | 6.59 |
| 1824.60 | H | 47.87 | -76.51 | 11.27 | 0.76 | -66.00 | -47.00 | 19.00 |
| 1243.50 | V | 48.57 | -76.62 | 7.74 | 1.13 | -70.01 | -47.00 | 23.01 |

Note 1: The unit of antenna gain is dBd for frequency below 1GHz and is dBi for frequency above 1GHz.

Note 2:

Absolute Level = Substituted Level - Cable loss + Antenna Gain

Margin = Limit- Absolute Level

10 - RECEIVER BLOCKING

Definition

Receiver blocking is a measure of the ability of the equipment to receive a wanted signal on its operating channel without exceeding a given degradation due to the presence of an unwanted input signal (blocking signal) on frequencies other than those of the operating band and spurious responses.

Limit

For equipment that supports a PER or FER test to be performed, the minimum performance criterion shall be a PER or FER less than or equal to 10 %.

For equipment that does not support a PER or a FER test to be performed, the minimum performance criterion shall be no loss of the wireless transmission function needed for the intended use of the equipment.

While maintaining the minimum performance criteria as defined in clause 4.3.2.11.3, the blocking levels at specified frequency offsets shall be equal to or greater than the limits defined for the applicable receiver category provided in table 14, table 15 or table 16.

Table 14: Receiver Blocking parameters for Receiver Category 1 equipment

| Wanted signal mean power from companion device (dBm) (see notes 1 and 4) | Blocking signal frequency (MHz) | Blocking signal power (dBm) (see note 4) | Type of blocking signal |
|--|--|---|-------------------------|
| $(-133 \text{ dBm} + 10 \times \log_{10}(\text{OCBW}))$ or -68 dBm whichever is less (see note 2) | 2 380 2 504 | -34 | CW |
| $(-139 \text{ dBm} + 10 \times \log_{10}(\text{OCBW}))$ or -74 dBm whichever is less (see note 3) | 2 300 2 330 2 360 2 524 2 584 2 674 | | |
| NOTE 1: OCBW is in Hz. | | | |
| NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to $P_{\min} + 26 \text{ dB}$ where P_{\min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal. | | | |
| NOTE 3: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to $P_{\min} + 20 \text{ dB}$ where P_{\min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal. | | | |
| NOTE 4: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2. | | | |

Table 15: Receiver Blocking parameters receiver Category 2 equipment

| Wanted signal mean power from companion device (dBm) (see notes 1 and 3) | Blocking signal frequency (MHz) | Blocking signal power (dBm) (see note 3) | Type of blocking signal |
|---|----------------------------------|---|-------------------------|
| $(-139 \text{ dBm} + 10 \times \log_{10}(\text{OCBW}) + 10 \text{ dB})$ or $(-74 \text{ dBm} + 10 \text{ dB})$ whichever is less (see note 2) | 2 380 2 504 2 300 2 584 | -34 | CW |
| <p>NOTE 1: OCBW is in Hz.</p> <p>NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to $P_{\min} + 26 \text{ dB}$ where P_{\min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.</p> <p>NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.</p> | | | |

Table 16: Receiver Blocking parameters receiver Category 3 equipment

| Wanted signal mean power from companion device (dBm) (see notes 1 and 3) | Blocking signal frequency (MHz) | Blocking signal power (dBm) (see note 3) | Type of blocking signal |
|---|----------------------------------|---|-------------------------|
| $(-139 \text{ dBm} + 10 \times \log_{10}(\text{OCBW}) + 20 \text{ dB})$ or $(-74 \text{ dBm} + 20 \text{ dB})$ whichever is less (see note 2) | 2 380 2 504 2 300 2 584 | -34 | CW |
| <p>NOTE 1: OCBW is in Hz.</p> <p>NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to $P_{\min} + 30 \text{ dB}$ where P_{\min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.</p> <p>NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.</p> | | | |

Test Setup Block diagram

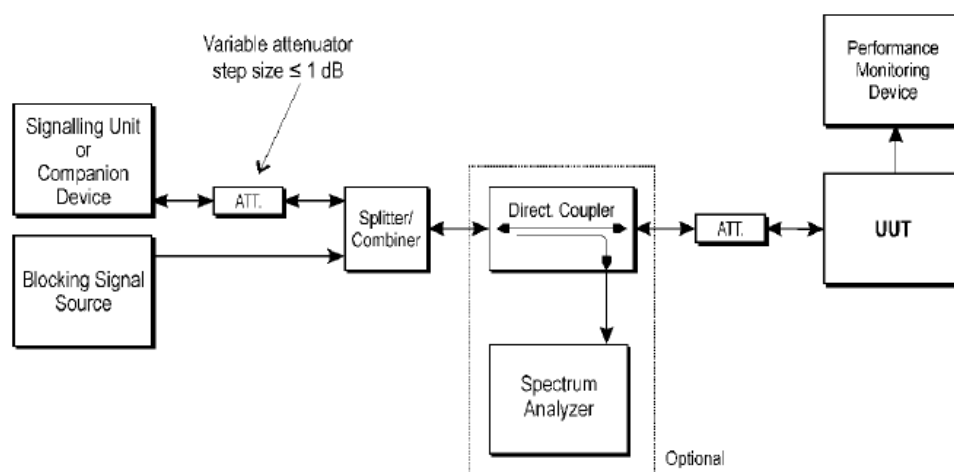


Figure 6: Test Set-up for receiver blocking

Test Procedure

The measurement procedure refer to ETSI EN 300 328 V2.2.2 (2019-07) §5.4.11

Test Data

Test Result: Compliant. Please refer to following tables.

| Mode | Receiver Category | Channel | Frequency (MHz) | Blocking Signal Frequency (MHz) | PER (%) | Limit (%) |
|---------|-------------------|---------|-----------------|---------------------------------|---------|-----------|
| 802.11b | 1 | Low | 2412 | 2380 | 7.7 | ≤10 |
| | | | | 2300 | 4.6 | |
| | | | | 2330 | 6.8 | |
| | | | | 2360 | 5.8 | |
| | High | 2472 | 2472 | 2504 | 7.1 | ≤10 |
| | | | | 2524 | 4.0 | |
| | | | | 2584 | 6.1 | |
| | | | | 2674 | 7.3 | |

Note: PER was monitored by CMW500.

**EXHIBIT A - E.2 INFORMATION AS REQUIRED BY EN 300 328 V2.2.2,
CLAUSE 5.4.1**

In accordance with EN 300 328, clause 5.4.1, the following information is provided by the supplier.

a) The type of modulation used by the equipment:

- ☐ FHSS
☒ other forms of modulation

b) In case of FHSS modulation:

In case of non-Adaptive Frequency Hopping equipment:

The number of Hopping Frequencies: _____.

In case of Adaptive Frequency Hopping Equipment:

The maximum number of Hopping Frequencies: _____;

The minimum number of Hopping Frequencies: _____;

The (average) Dwell Time: _____;

c) Adaptive / non-adaptive equipment:

- ☐ non-adaptive Equipment
☒ adaptive Equipment without the possibility to switch to a non-adaptive mode
☐ adaptive Equipment which can also operate in a non-adaptive mode

d) In case of adaptive equipment:

The Channel Occupancy Time implemented by the equipment: 0.361 ms

- ☐ The equipment has implemented an LBT based DAA mechanism

In case of equipment using modulation different from FHSS:

- ☐ The equipment is Frame Based equipment
☒ The equipment is Load Based equipment
☐ The equipment can switch dynamically between Frame Based and Load Based equipment

The CCA time implemented by the equipment: 0.059 ms

- ☐ The equipment has implemented a non-LBT based DAA mechanism
☐ The equipment can operate in more than one adaptive mode

e) In case of non-adaptive Equipment:

The maximum RF Output Power (e.i.r.p.): _____ dBm

The maximum (corresponding) Duty Cycle: _____ %

Equipment with dynamic behaviour, that behaviour is described here. (e.g. the different combinations of duty cycle and corresponding power levels to be declared):

_____.

f) The worst case operational mode for each of the following tests:

RF Output Power: 19.79 dBm;
 Power Spectral Density 9.94 dBm/MHz;
 Duty cycle, Tx-Sequence, Tx-gap N/A;
 Accumulated Transmit Time, Minimum Frequency Occupation & Hopping Sequence (only for FHSS equipment)
N/A;
 Hopping Frequency Separation (only for FHSS equipment) N/A;
 Medium Utilisation N/A;
 Adaptivity Pass;
 Receiver Blocking Pass;
 Norminal Occupied Channel Bandwidth 20&40 MHz;
 Transmitter unwanted emissions in the OOB domain -11.5 dBm/MHz;
 Transmitter unwanted emissions in the spurious domain -57.16 dBm;
 Receiver spurious emissions -63.59 dBm;

g) The different transmit operating modes (tick all that apply):

- ☒ Operating mode 1: Single Antenna Equipment
- ☒ Equipment with only 1 antenna
- ☐ Equipment with 2 diversity antennas but only 1 antenna active at any moment in time
- ☐ Smart Antenna Systems with 2 or more antennas, but operating in a (legacy) mode where only 1 antenna is used.
(e.g. IEEE 802.11™ [i.3] legacy mode in smart antenna systems)
- ☐ Operating mode 2: Smart Antenna Systems - Multiple Antennas without beam forming
- ☐ Single spatial stream / Standard throughput / (e.g. IEEE 802.11™ [i.3] legacy mode)
- ☐ High Throughput (> 1 spatial stream) using Occupied Channel Bandwidth 1
- ☐ High Throughput (> 1 spatial stream) using Occupied Channel Bandwidth 2
Note: Add more lines if more channel bandwidths are supported.
- ☐ Operating mode 3: Smart Antenna Systems - Multiple Antennas with beam forming
- ☐ Single spatial stream / Standard throughput (e.g. IEEE 802.11™ [i.3] legacy mode)
- ☐ High Throughput (> 1 spatial stream) using Occupied Channel Bandwidth 1
- ☐ High Throughput (> 1 spatial stream) using Occupied Channel Bandwidth 2
Note: Add more lines if more channel bandwidths are supported.

h) In case of Smart Antenna Systems:

The number of Receive chains: _____;
 The number of Transmit chains: _____;

- ☒ symmetrical power distribution
- ☐ asymmetrical power distribution

In case of beam forming, the maximum beam forming gain: _____;

Note: Beam forming gain does not include the basic gain of a single antenna.

i) Operating Frequency Range(s) of the equipment:

Operating Frequency Range 1: 2412 MHz to 2472 MHz
 Operating Frequency Range 2: 2422 MHz to 2462 MHz
 Operating Frequency Range 3: _____ MHz to _____ MHz

Note: Add more lines if more Frequency Ranges are supported.

j) Nominal Channel Bandwidth(s):

Nominal Channel Bandwidth 1: 20 MHz
Nominal Channel Bandwidth 2: 40 MHz

Note: Add more lines if more channel bandwidths are supported.

k) Type of Equipment (stand-alone, combined, plug-in radio device, etc.):

- ☒ Stand-alone
☐ Combined Equipment (Equipment where the radio part is fully integrated within another type of equipment)
☐ Plug-in radio device (Equipment intended for a variety of host systems)
☐ Other _____;

l) The normal and the extreme operating conditions that apply to the equipment:**Normal operating conditions (if applicable):**

Operating temperature range: +25 °C
Other (please specify if applicable): _____

Extreme operating conditions:

Operating temperature range: Minimum: 0 °C Maximum +40 °C
Other (please specify if applicable): _____ Minimum: _____ Maximum _____

Details provided are for the: ☒ stand-alone equipment
☐ combined (or host) equipment
☐ test jig

m) The intended combination(s) of the radio equipment power settings and one or more antenna assemblies and their corresponding e.i.r.p levels:

Antenna Type:

- ☒ Integral Antenna (information to be provided in case of conducted measurements)

Antenna Gain: 2.71 dBi

If applicable, additional beamforming gain (excluding basic antenna gain): _____ dB

- ☐ Temporary RF connector provided
☐ No temporary RF connector provided
- ☐ Dedicated Antennas (equipment with antenna connector)
☐ Single power level with corresponding antenna(s)
☐ Multiple power settings and corresponding antenna(s)

Number of different Power Levels: _____;
Power Level 1: _____ dBm
Power Level 2: _____ dBm
Power Level 3: _____ dBm

Note 1: Add more lines in case the equipment has more power levels.

Note 2: These power levels are conducted power levels (at antenna connector).

For each of the Power Levels, provide the intended antenna assemblies, their corresponding gains (G) and the resulting e.i.r.p. levels also taking into account the beamforming gain (Y) if applicable

Power Level 1: ____dBm

Number of antenna assemblies provided for this power level:

| Assembly # | Gain (dBi) | e.i.r.p. (dBm) | Part number or model name |
|------------|------------|----------------|---------------------------|
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |

Note 3: Add more rows in case more antenna assemblies are supported for this power level.

Power Level 2: ____dBm

Number of antenna assemblies provided for this power level:

| Assembly # | Gain (dBi) | e.i.r.p. (dBm) | Part number or model name |
|------------|------------|----------------|---------------------------|
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |

Note4: Add more rows in case more antenna assemblies are supported for this power level.

Power Level 2: ____dBm

Number of antenna assemblies provided for this power level:

| Assembly # | Gain (dBi) | e.i.r.p. (dBm) | Part number or model name |
|------------|------------|----------------|---------------------------|
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |

Note5: Add more rows in case more antenna assemblies are supported for this power level.

n) The nominal voltages of the stand-alone radio equipment or the nominal voltages of the combined (host) equipment or test jig in case of plug-in devices:

Details provided are for the: ☒ stand-alone equipment
☐ combined (or host) equipment
☐ test jig

Supply Voltage ☒ AC mains State AC voltage 100-240 V
☒ DC State DC voltage 5 V

In case of DC, indicate the type of power source

- ☐ Internal Power Supply
☒ External Power Supply or AC/DC adapter
☐ Battery
☐ Other: _____

o) Describe the test modes available which can facilitate testing:

The measurements shall be performed during continuously transmitting

p) The equipment type (e.g. Bluetooth®, IEEE 802.11™, IEEE 802.15.4™, proprietary, etc.):

IEEE 802.11™

q) If applicable, the statistical analysis referred to in clause 5.4.1 q)

(to be provided as separate attachment)

r) If applicable, the statistical analysis referred to in clause 5.4.1 r)

(to be provided as separate attachment)

s) Geo-location capability supported by the equipment:

- ☐ Yes
- ☐ The geographical location determined by the equipment as defined in clause 4.3.1.13.2 or clause 4.3.2.12.2 is not accessible to the user.
- ☒ No

EXHIBIT B - EUT PHOTOGRAPHS

For photos in this section, please refer to report No.: 2402T75014E-02A1 EXHIBIT A.

EXHIBIT C – TEST SETUP PHOTOGRAPHS

Radiated Emission Below 1GHz View



Radiated Emission Above 1GHz View



EXHIBIT D – RF CONDUCTED TEST

Appendix A: RF Output Power

Test Result

| Test Condition | Test Mode | Antenna | Frequency[MHz] | Burst Power [dBm] | Gain [dBi] | EIRP [dBm] | EIRP Limit [dBm] | Verdict |
|----------------|------------|---------|----------------|-------------------|------------|------------|------------------|---------|
| NTNV | 11B | Ant1 | 2412 | 15.14 | 2.71 | 17.85 | 20 | PASS |
| | | | 2442 | 15.40 | 2.71 | 18.11 | 20 | PASS |
| | | | 2472 | 15.67 | 2.71 | 18.38 | 20 | PASS |
| | 11G | Ant1 | 2412 | 16.59 | 2.71 | 19.30 | 20 | PASS |
| | | | 2442 | 16.69 | 2.71 | 19.40 | 20 | PASS |
| | | | 2472 | 17.03 | 2.71 | 19.74 | 20 | PASS |
| | 11N20SISO | Ant1 | 2412 | 16.47 | 2.71 | 19.18 | 20 | PASS |
| | | | 2442 | 16.76 | 2.71 | 19.47 | 20 | PASS |
| | | | 2472 | 16.75 | 2.71 | 19.46 | 20 | PASS |
| | 11N40SISO | Ant1 | 2422 | 16.50 | 2.71 | 19.21 | 20 | PASS |
| | | | 2442 | 16.65 | 2.71 | 19.36 | 20 | PASS |
| | | | 2462 | 16.87 | 2.71 | 19.58 | 20 | PASS |
| | 11AX20SISO | Ant1 | 2412 | 16.42 | 2.71 | 19.13 | 20 | PASS |
| | | | 2442 | 16.51 | 2.71 | 19.22 | 20 | PASS |
| | | | 2472 | 16.64 | 2.71 | 19.35 | 20 | PASS |
| | 11AX40SISO | Ant1 | 2422 | 16.44 | 2.71 | 19.15 | 20 | PASS |
| | | | 2442 | 16.62 | 2.71 | 19.33 | 20 | PASS |
| | | | 2462 | 16.89 | 2.71 | 19.60 | 20 | PASS |

| Test Condition | Test Mode | Antenna | Frequency[MHz] | Burst Power [dBm] | Gain [dBi] | EIRP [dBm] | EIRP Limit [dBm] | Verdict |
|----------------|------------|---------|----------------|-------------------|------------|------------|------------------|---------|
| LTVN | 11B | Ant1 | 2412 | 15.21 | 2.71 | 17.92 | 20 | PASS |
| | | | 2442 | 15.46 | 2.71 | 18.17 | 20 | PASS |
| | | | 2472 | 15.72 | 2.71 | 18.43 | 20 | PASS |
| | 11G | Ant1 | 2412 | 16.68 | 2.71 | 19.39 | 20 | PASS |
| | | | 2442 | 16.75 | 2.71 | 19.46 | 20 | PASS |
| | | | 2472 | 17.08 | 2.71 | 19.79 | 20 | PASS |
| | 11N20SISO | Ant1 | 2412 | 16.53 | 2.71 | 19.24 | 20 | PASS |
| | | | 2442 | 16.81 | 2.71 | 19.52 | 20 | PASS |
| | | | 2472 | 16.79 | 2.71 | 19.50 | 20 | PASS |
| | 11N40SISO | Ant1 | 2422 | 16.58 | 2.71 | 19.29 | 20 | PASS |
| | | | 2442 | 16.69 | 2.71 | 19.40 | 20 | PASS |
| | | | 2462 | 16.95 | 2.71 | 19.66 | 20 | PASS |
| | 11AX20SISO | Ant1 | 2412 | 16.47 | 2.71 | 19.18 | 20 | PASS |
| | | | 2442 | 16.55 | 2.71 | 19.26 | 20 | PASS |
| | | | 2472 | 16.68 | 2.71 | 19.39 | 20 | PASS |
| | 11AX40SISO | Ant1 | 2422 | 16.50 | 2.71 | 19.21 | 20 | PASS |
| | | | 2442 | 16.67 | 2.71 | 19.38 | 20 | PASS |
| | | | 2462 | 16.95 | 2.71 | 19.66 | 20 | PASS |

| Test Condition | Test Mode | Antenna | Frequency[MHz] | Burst Power [dBm] | Gain [dBi] | EIRP [dBm] | EIRP Limit [dBm] | Verdict |
|----------------|------------|---------|----------------|-------------------|------------|------------|------------------|---------|
| HTNV | 11B | Ant1 | 2412 | 15.08 | 2.71 | 17.79 | 20 | PASS |
| | | | 2442 | 15.33 | 2.71 | 18.04 | 20 | PASS |
| | | | 2472 | 15.61 | 2.71 | 18.32 | 20 | PASS |
| | 11G | Ant1 | 2412 | 16.52 | 2.71 | 19.23 | 20 | PASS |
| | | | 2442 | 16.66 | 2.71 | 19.37 | 20 | PASS |
| | | | 2472 | 16.97 | 2.71 | 19.68 | 20 | PASS |
| | 11N20SISO | Ant1 | 2412 | 16.42 | 2.71 | 19.13 | 20 | PASS |
| | | | 2442 | 16.68 | 2.71 | 19.39 | 20 | PASS |
| | | | 2472 | 16.71 | 2.71 | 19.42 | 20 | PASS |
| | 11N40SISO | Ant1 | 2422 | 16.46 | 2.71 | 19.17 | 20 | PASS |
| | | | 2442 | 16.59 | 2.71 | 19.30 | 20 | PASS |
| | | | 2462 | 16.82 | 2.71 | 19.53 | 20 | PASS |
| | 11AX20SISO | Ant1 | 2412 | 16.37 | 2.71 | 19.08 | 20 | PASS |
| | | | 2442 | 16.45 | 2.71 | 19.16 | 20 | PASS |
| | | | 2472 | 16.53 | 2.71 | 19.24 | 20 | PASS |
| | 11AX40SISO | Ant1 | 2422 | 16.34 | 2.71 | 19.05 | 20 | PASS |
| | | | 2442 | 16.58 | 2.71 | 19.29 | 20 | PASS |
| | | | 2462 | 16.86 | 2.71 | 19.57 | 20 | PASS |

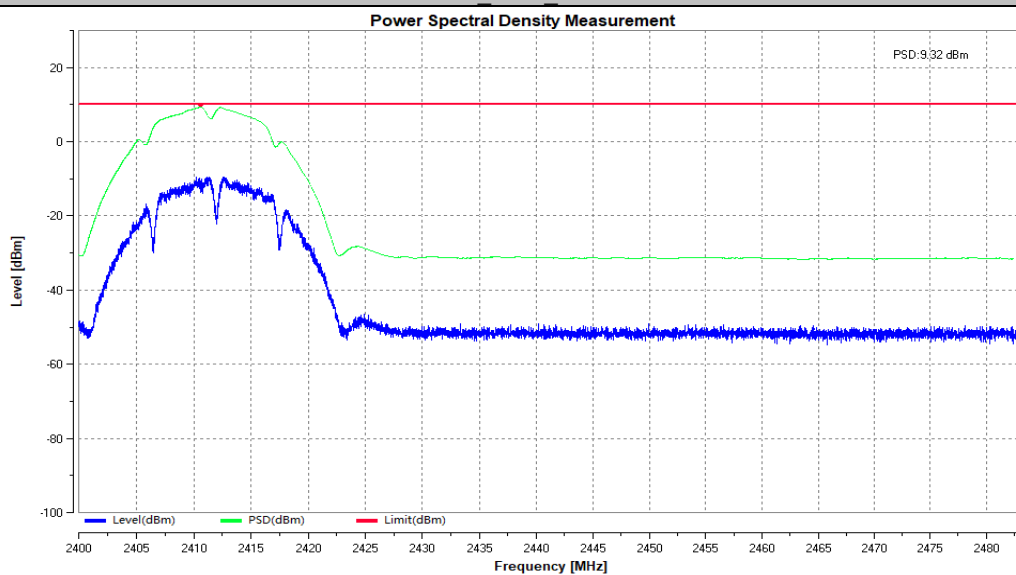
Appendix B: Power Spectral Density

Test Result

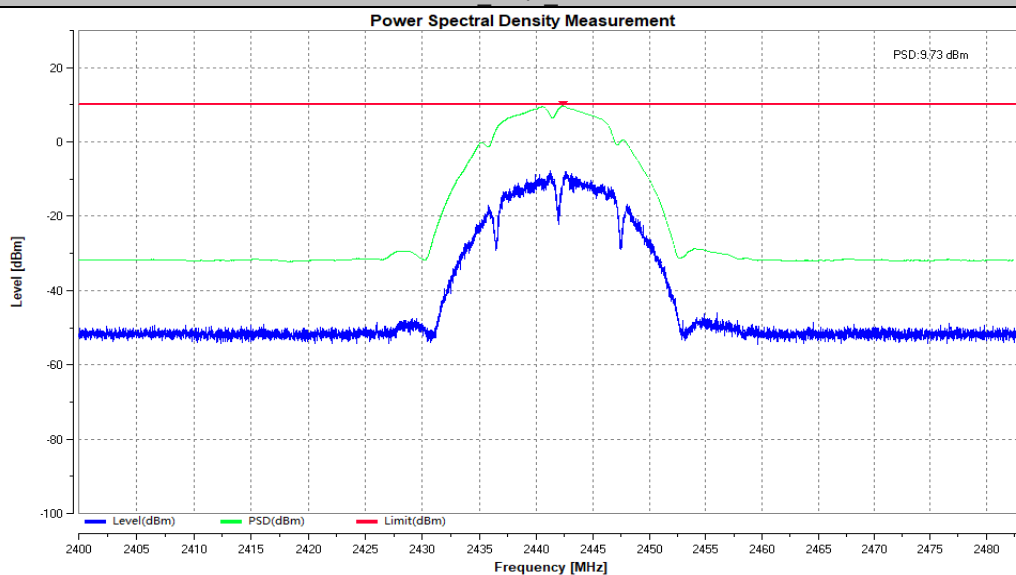
| TestMode | Antenna | Frequency[MHz] | EIRP PSD[dBm/MHz] | Limit[dBm/MHz] | Verdict |
|------------|---------|----------------|-------------------|----------------|---------|
| 11B | Ant1 | 2412 | 9.32 | 10 | PASS |
| | | 2442 | 9.73 | 10 | PASS |
| | | 2472 | 9.94 | 10 | PASS |
| 11G | Ant1 | 2412 | 8.68 | 10 | PASS |
| | | 2442 | 8.96 | 10 | PASS |
| | | 2472 | 9.16 | 10 | PASS |
| 11N20SISO | Ant1 | 2412 | 8.42 | 10 | PASS |
| | | 2442 | 8.75 | 10 | PASS |
| | | 2472 | 8.69 | 10 | PASS |
| 11N40SISO | Ant1 | 2422 | 4.95 | 10 | PASS |
| | | 2442 | 5.58 | 10 | PASS |
| | | 2462 | 5.66 | 10 | PASS |
| 11AX20SISO | Ant1 | 2412 | 8.03 | 10 | PASS |
| | | 2442 | 8.35 | 10 | PASS |
| | | 2472 | 8.27 | 10 | PASS |
| 11AX40SISO | Ant1 | 2422 | 4.66 | 10 | PASS |
| | | 2442 | 5.42 | 10 | PASS |
| | | 2462 | 5.33 | 10 | PASS |

Test Graphs

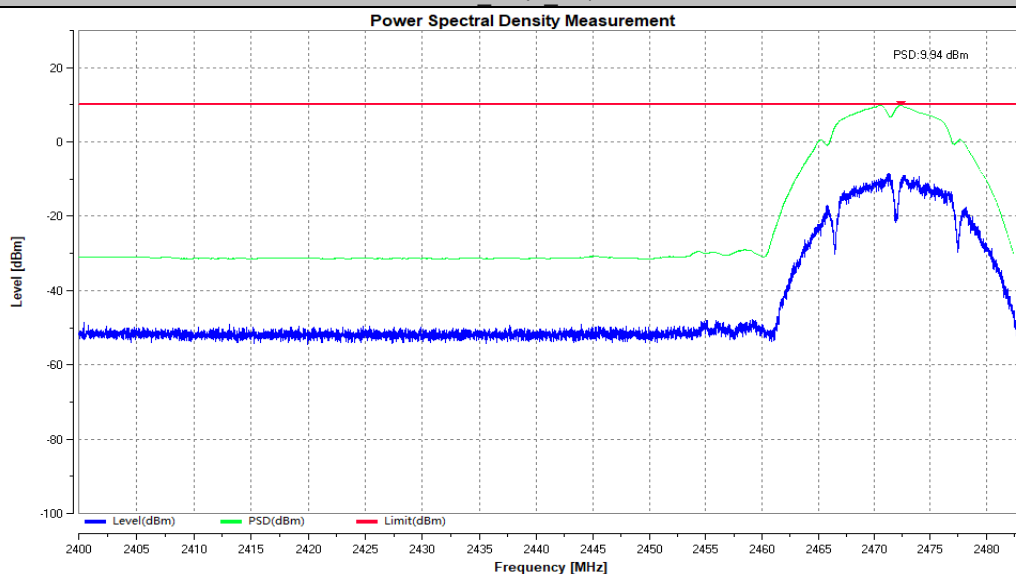
11B Ant1 2412



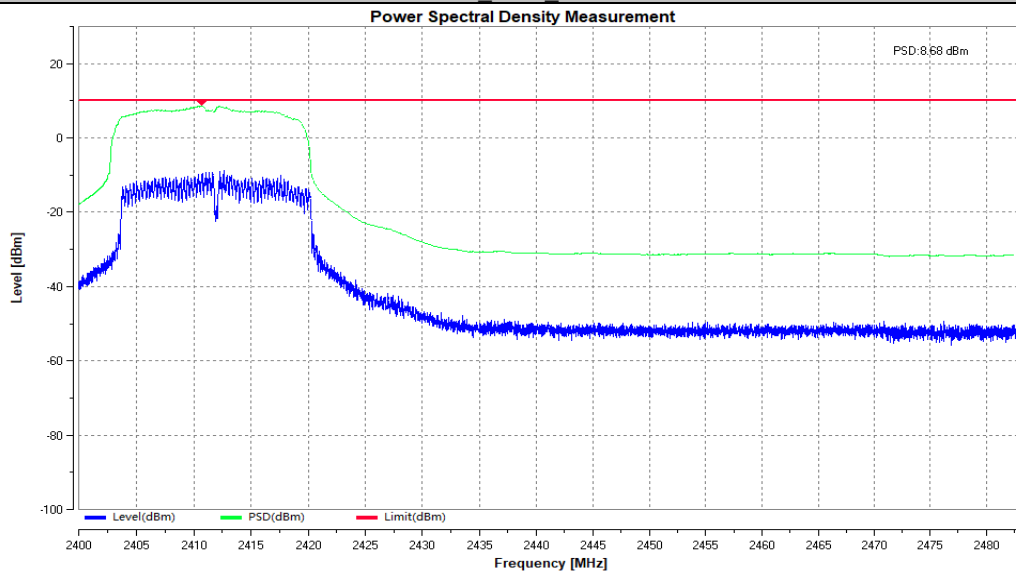
11B Ant1 2442



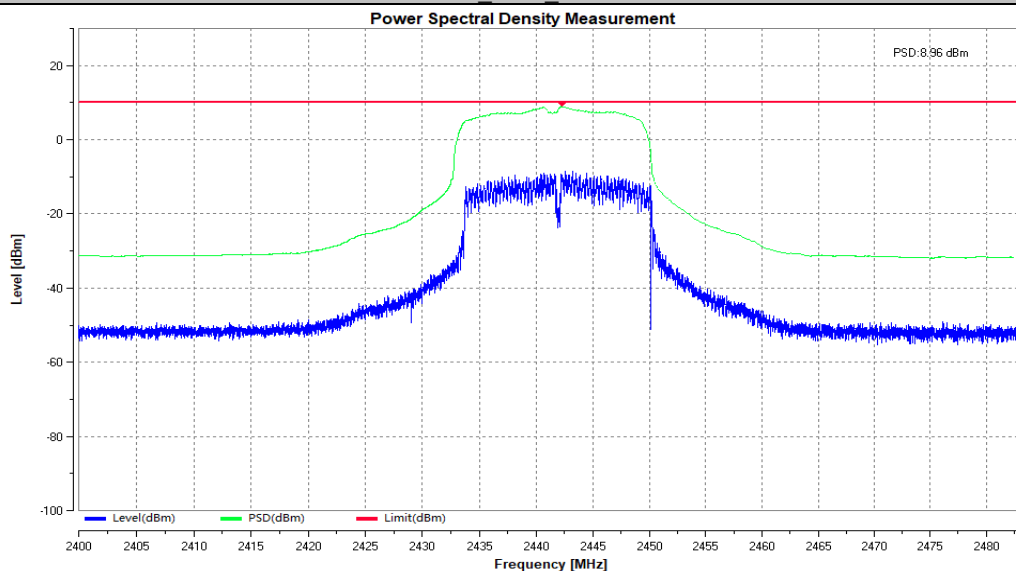
11B Ant1 2472



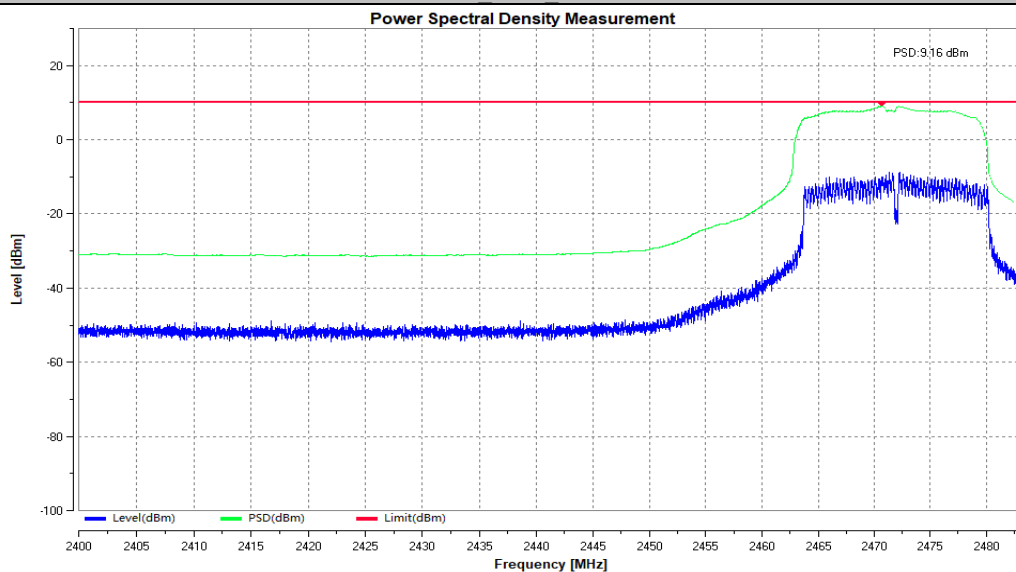
11G Ant1 2412



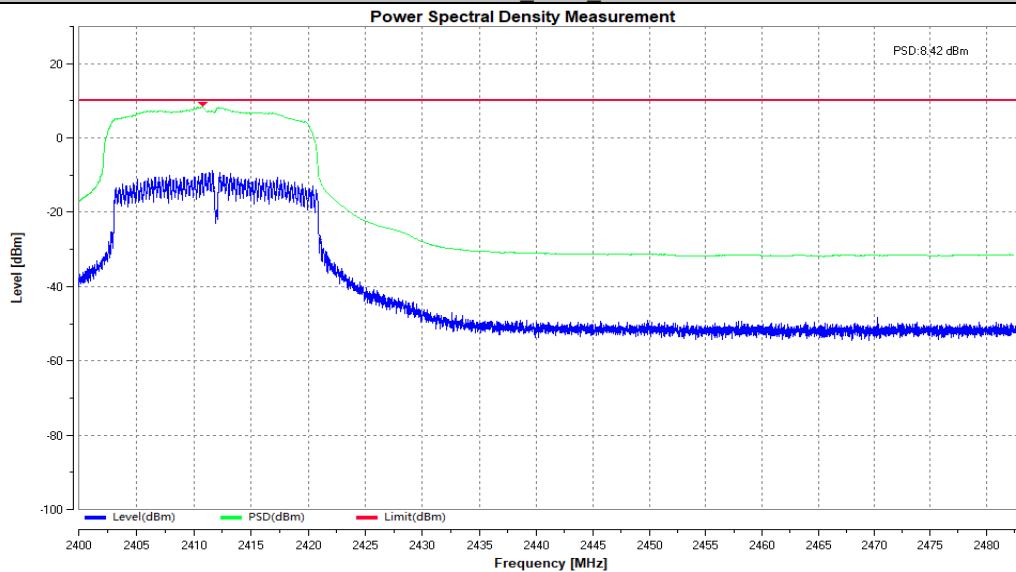
11G Ant1 2442



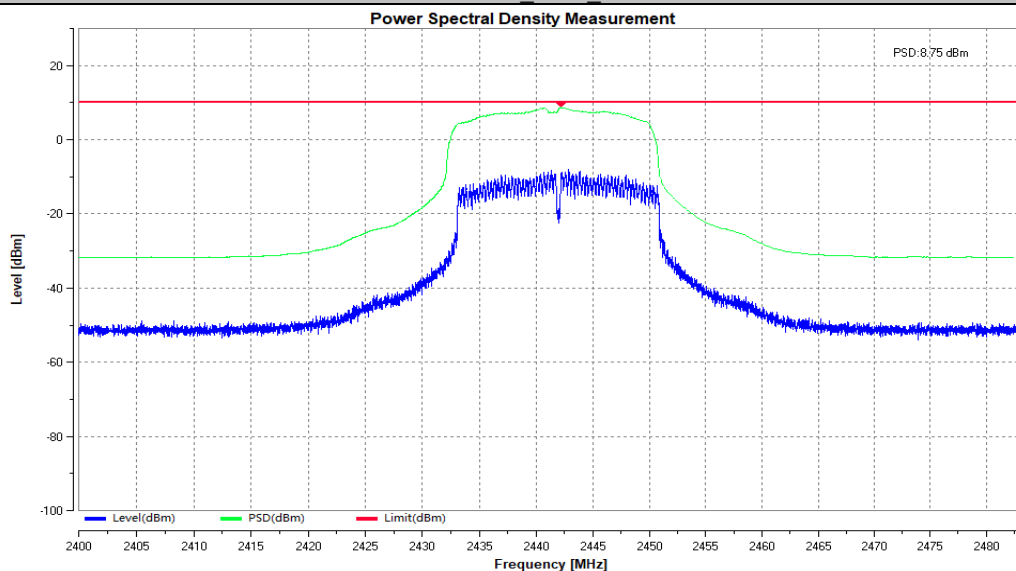
11G Ant1 2472



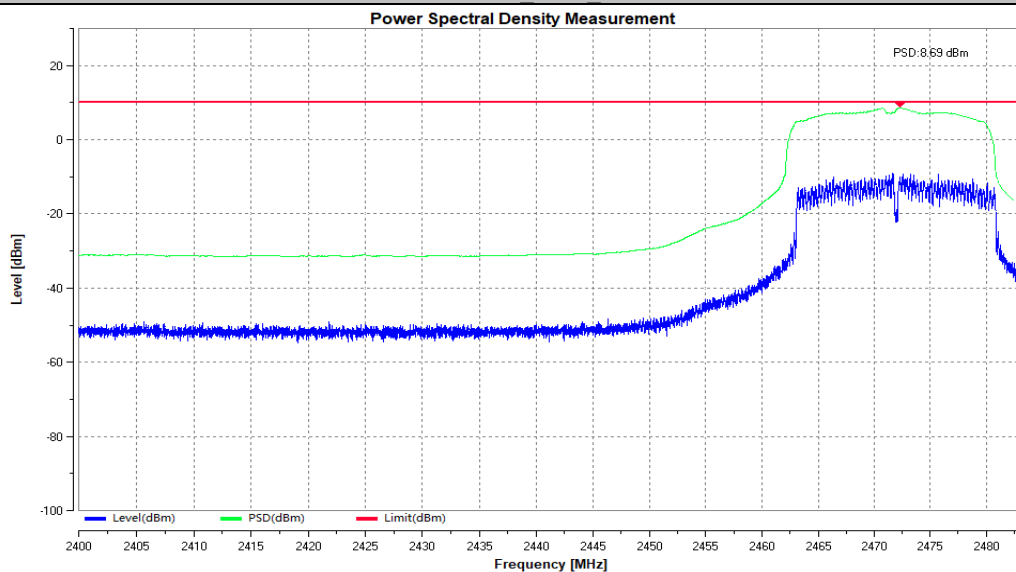
11N20SISO Ant1 2412



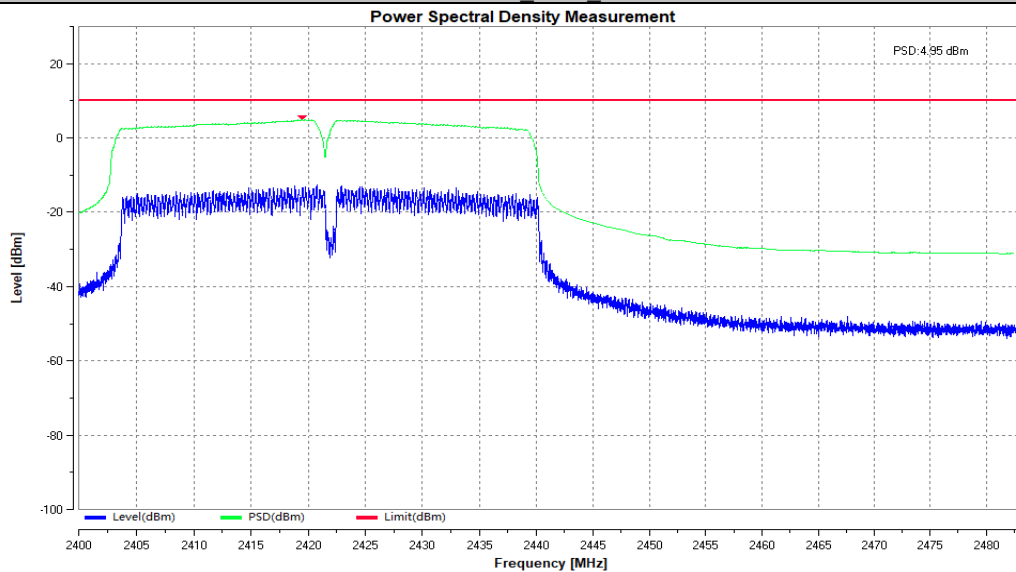
11N20SISO Ant1 2442



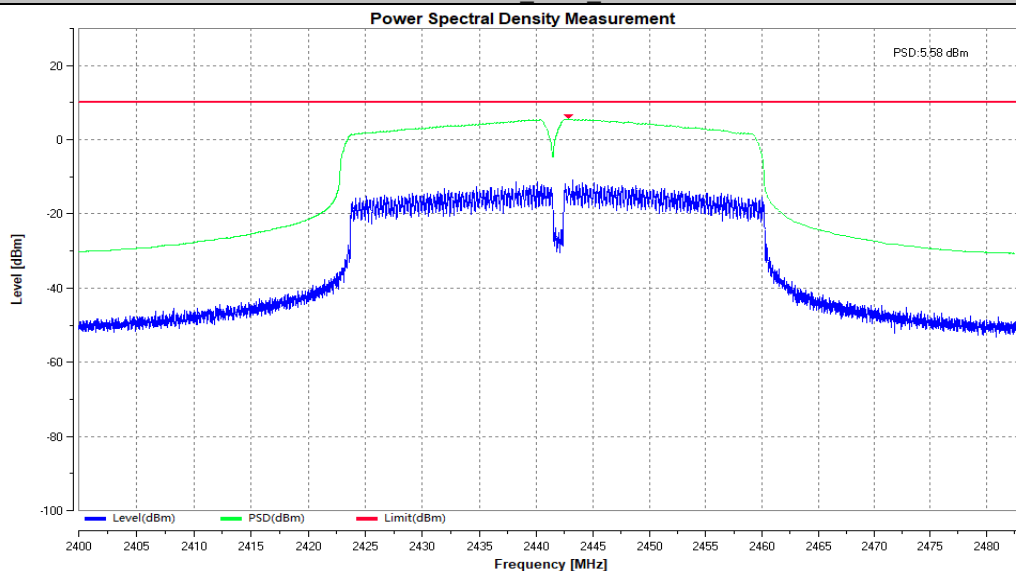
11N20SISO Ant1 2472



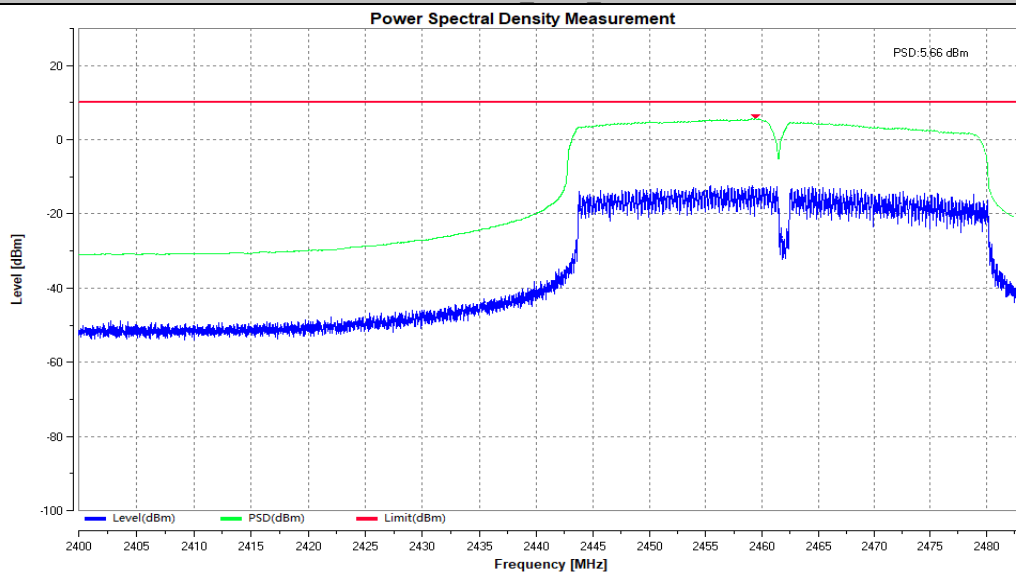
11N40SISO Ant1 2422



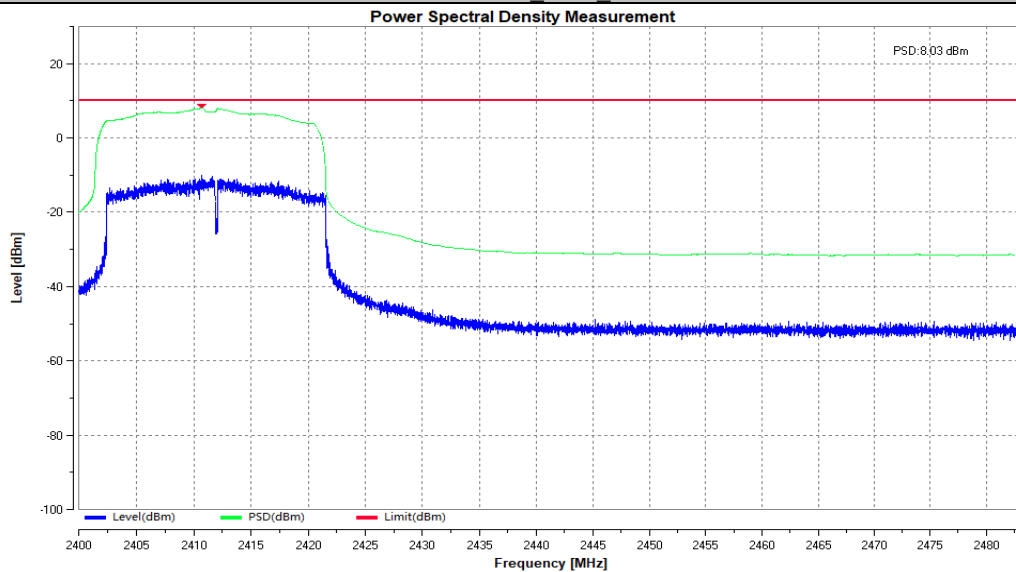
11N40SISO Ant1 2442



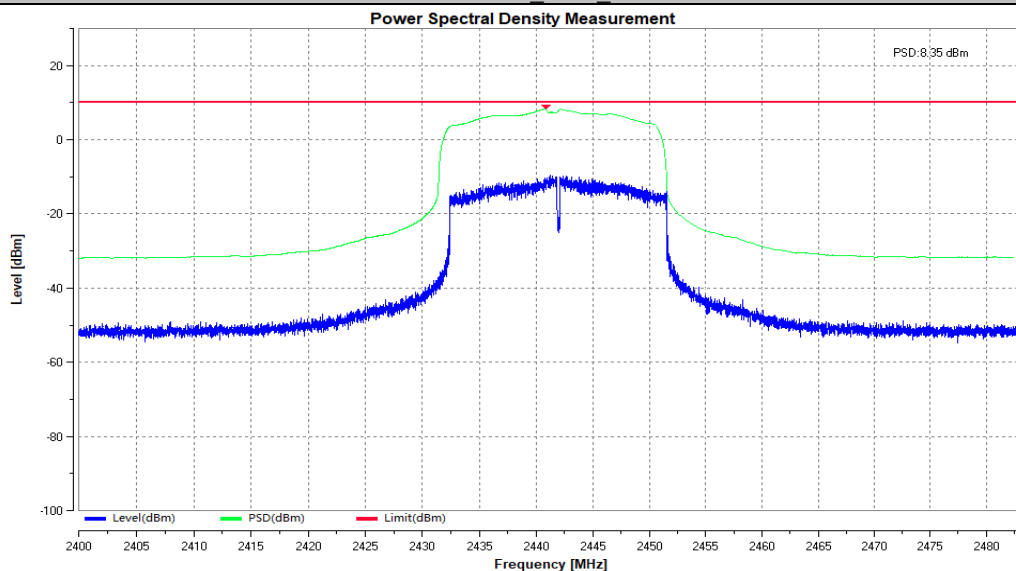
11N40SISO Ant1 2462



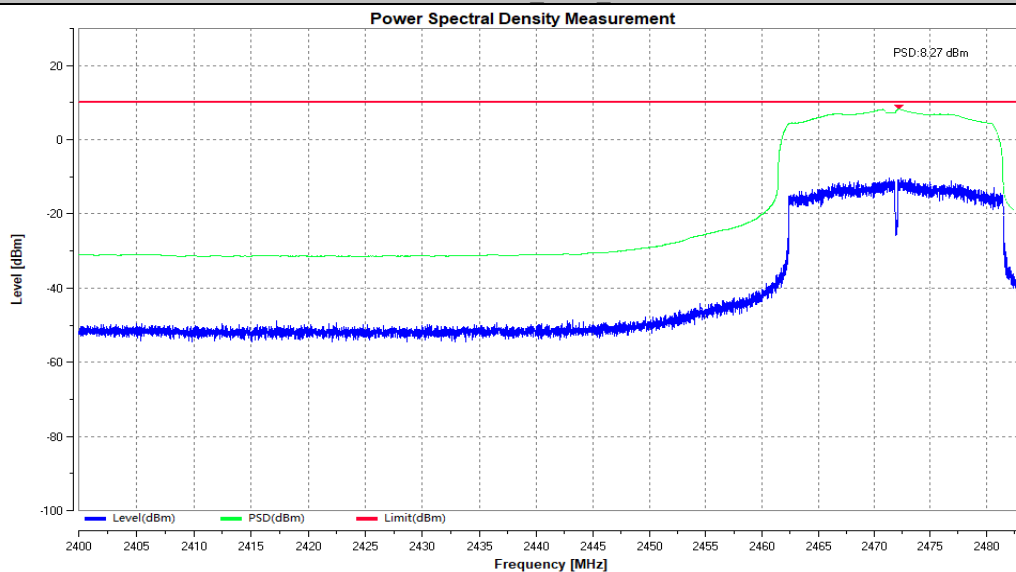
11AX20SISO Ant1 2412



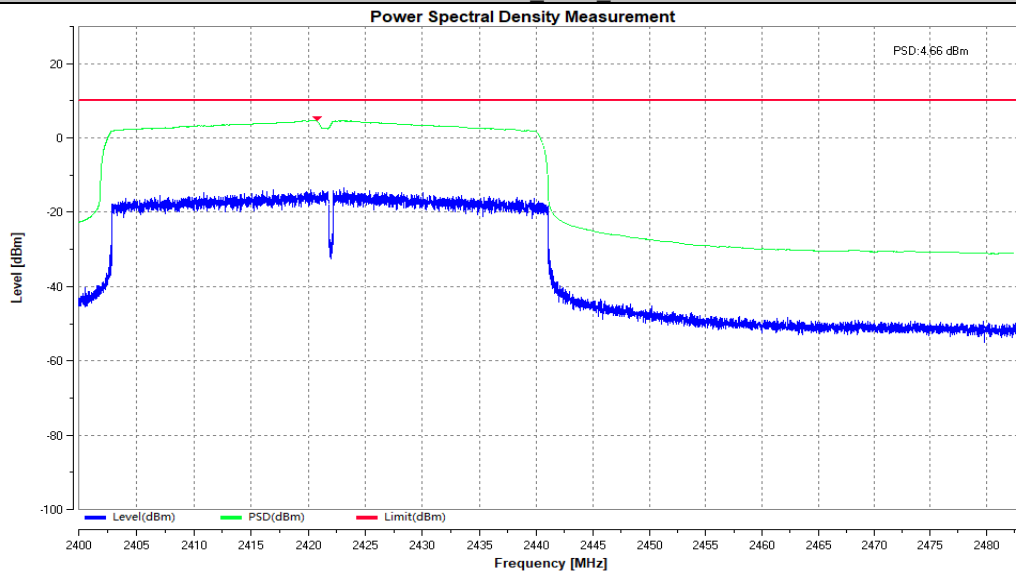
11AX20SISO Ant1 2442



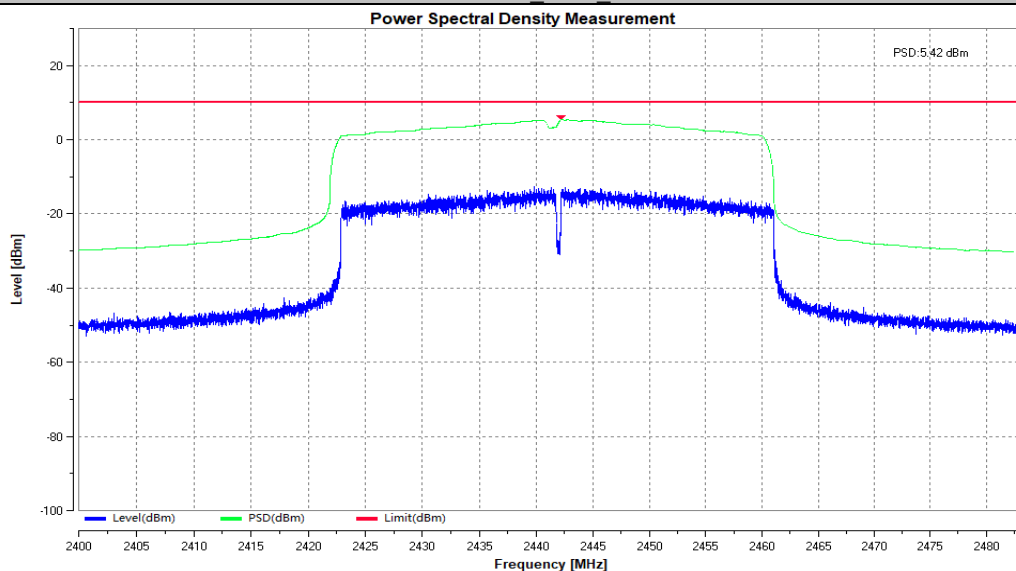
11AX20SISO Ant1 2472



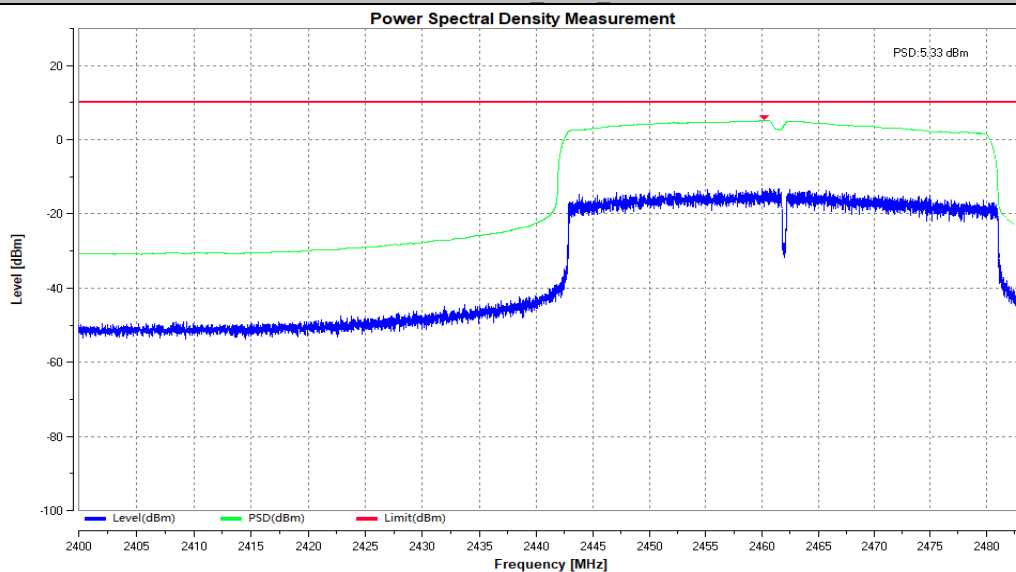
11AX40SISO Ant1 2422



11AX40SISO Ant1 2442



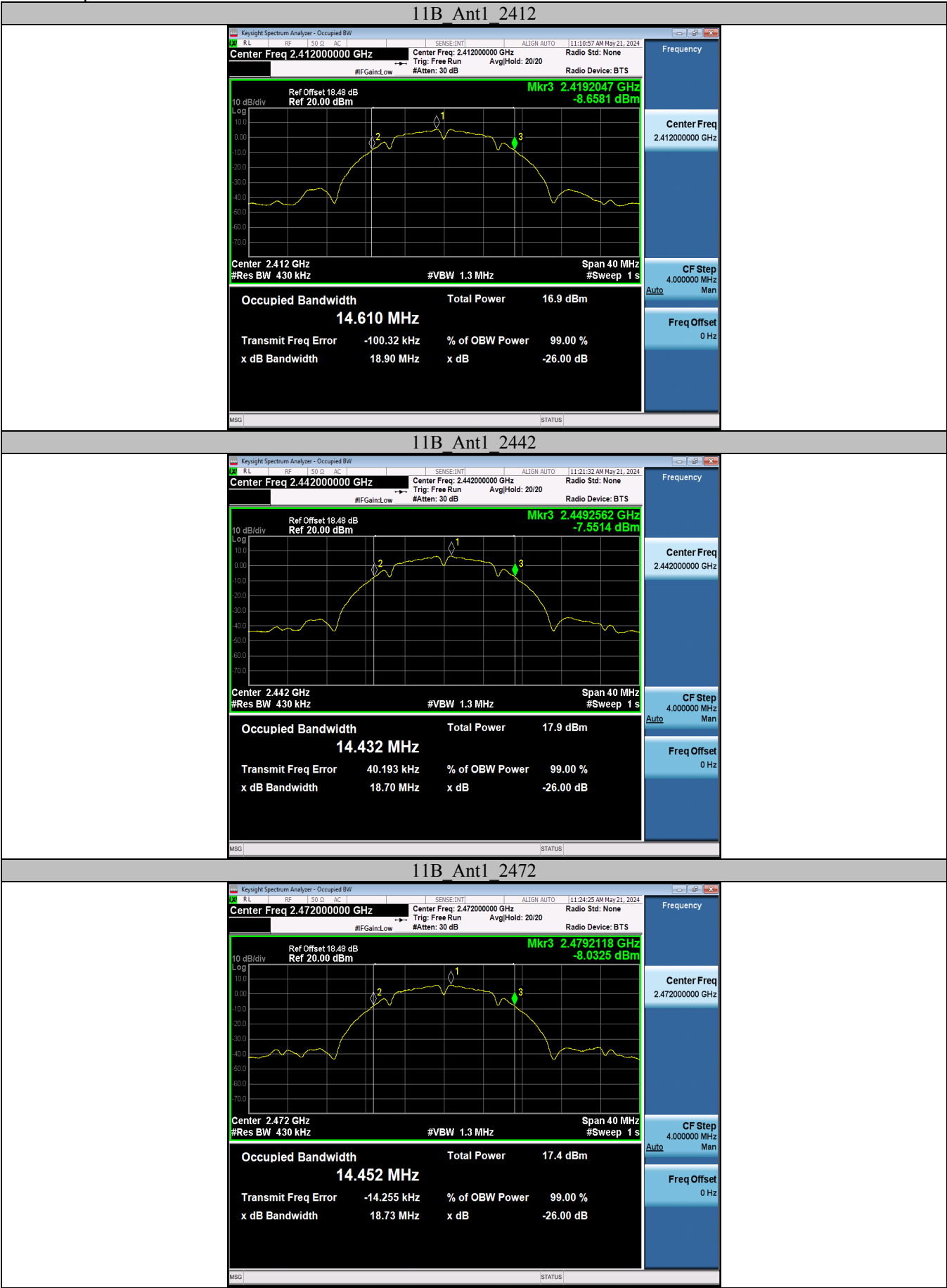
11AX40SISO Ant1 2462

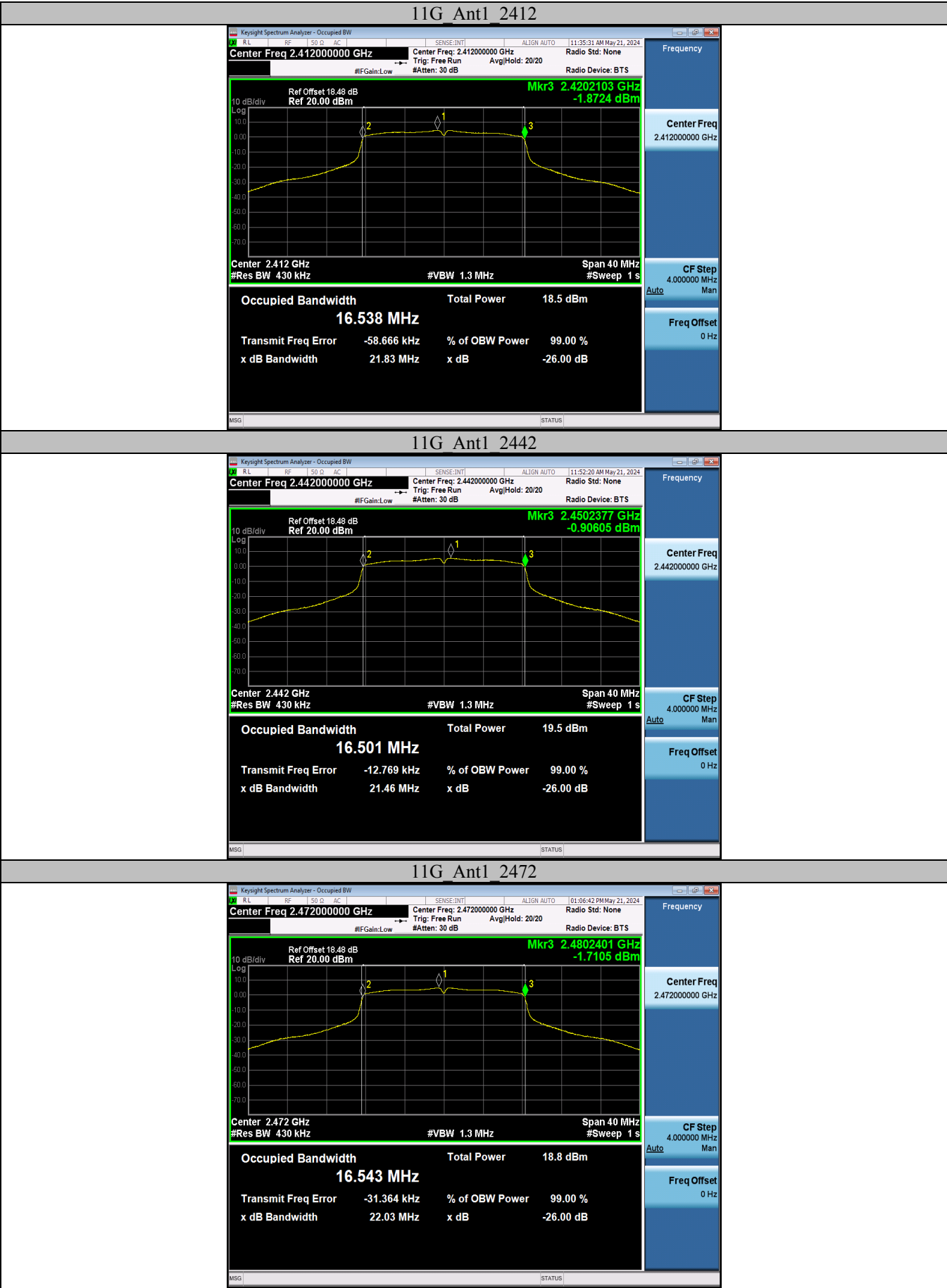


Appendix C: Occupied Channel Bandwidth**Test Result**

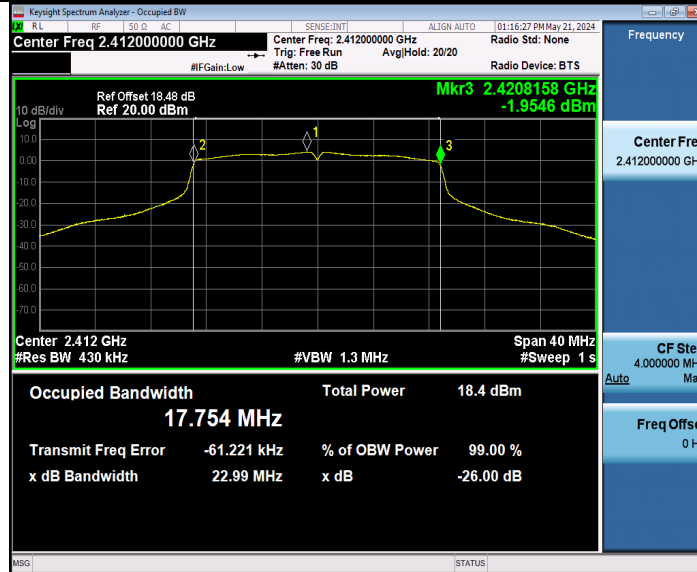
| TestMode | Antenna | Frequency[MHz] | OCB[MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|------------|---------|----------------|----------|-----------|-----------|----------------|---------|
| 11B | Ant1 | 2412 | 14.610 | 2404.5947 | 2419.2047 | 2400 to 2483.5 | PASS |
| | | 2442 | 14.432 | 2434.8242 | 2449.2562 | 2400 to 2483.5 | PASS |
| | | 2472 | 14.452 | 2464.7598 | 2479.2118 | 2400 to 2483.5 | PASS |
| 11G | Ant1 | 2412 | 16.538 | 2403.6723 | 2420.2103 | 2400 to 2483.5 | PASS |
| | | 2442 | 16.501 | 2433.7367 | 2450.2377 | 2400 to 2483.5 | PASS |
| | | 2472 | 16.543 | 2463.6971 | 2480.2401 | 2400 to 2483.5 | PASS |
| 11N20SISO | Ant1 | 2412 | 17.754 | 2403.0618 | 2420.8158 | 2400 to 2483.5 | PASS |
| | | 2442 | 17.714 | 2433.1253 | 2450.8393 | 2400 to 2483.5 | PASS |
| | | 2472 | 17.760 | 2463.0842 | 2480.8442 | 2400 to 2483.5 | PASS |
| 11N40SISO | Ant1 | 2422 | 36.399 | 2403.7523 | 2440.1513 | 2400 to 2483.5 | PASS |
| | | 2442 | 36.195 | 2423.8598 | 2460.0548 | 2400 to 2483.5 | PASS |
| | | 2462 | 36.339 | 2443.7430 | 2480.0820 | 2400 to 2483.5 | PASS |
| 11AX20SISO | Ant1 | 2412 | 18.959 | 2402.4635 | 2421.4225 | 2400 to 2483.5 | PASS |
| | | 2442 | 18.923 | 2432.5176 | 2451.4406 | 2400 to 2483.5 | PASS |
| | | 2472 | 18.965 | 2462.4826 | 2481.4476 | 2400 to 2483.5 | PASS |
| 11AX40SISO | Ant1 | 2422 | 37.868 | 2403.0172 | 2440.8852 | 2400 to 2483.5 | PASS |
| | | 2442 | 37.666 | 2423.1229 | 2460.7889 | 2400 to 2483.5 | PASS |
| | | 2462 | 37.805 | 2443.0127 | 2480.8177 | 2400 to 2483.5 | PASS |

Test Graphs

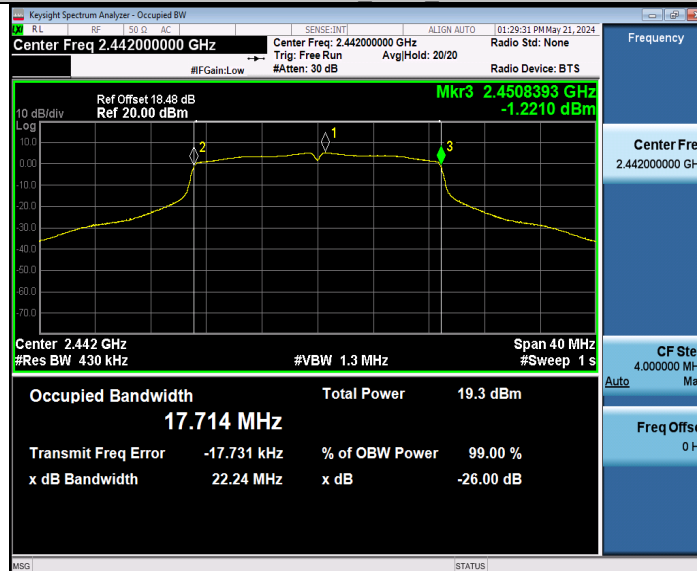




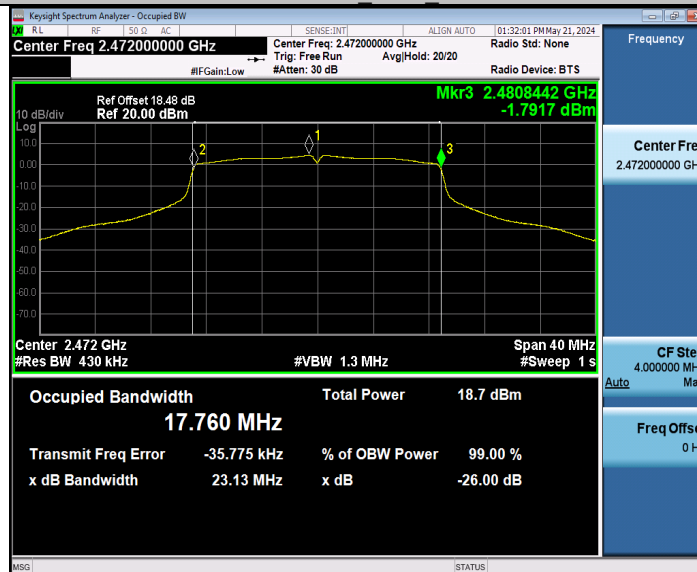
11N20SISO Ant1 2412



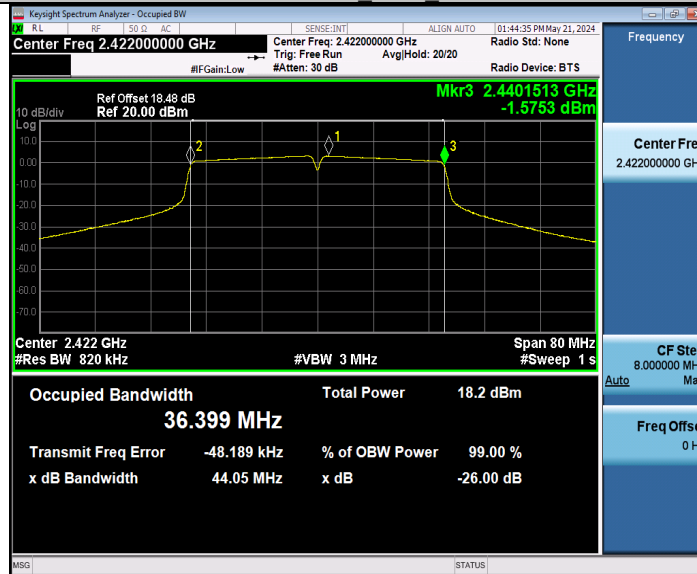
11N20SISO Ant1 2442



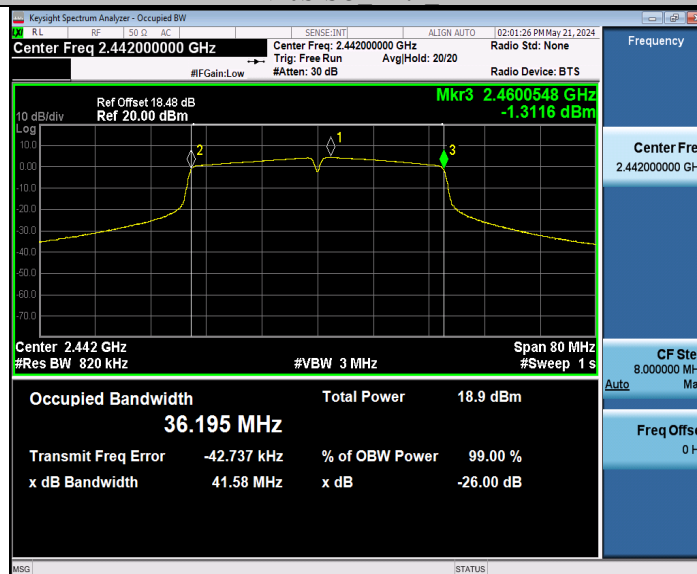
11N20SISO Ant1 2472



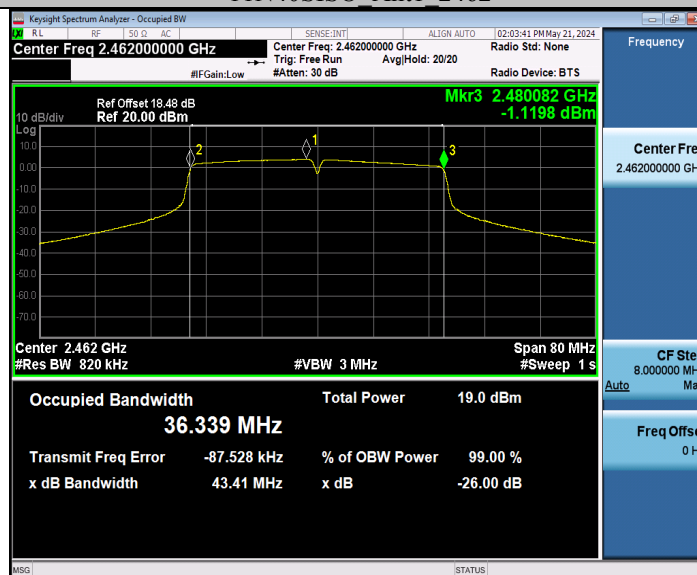
11N40SISO Ant1 2422



11N40SISO Ant1 2442

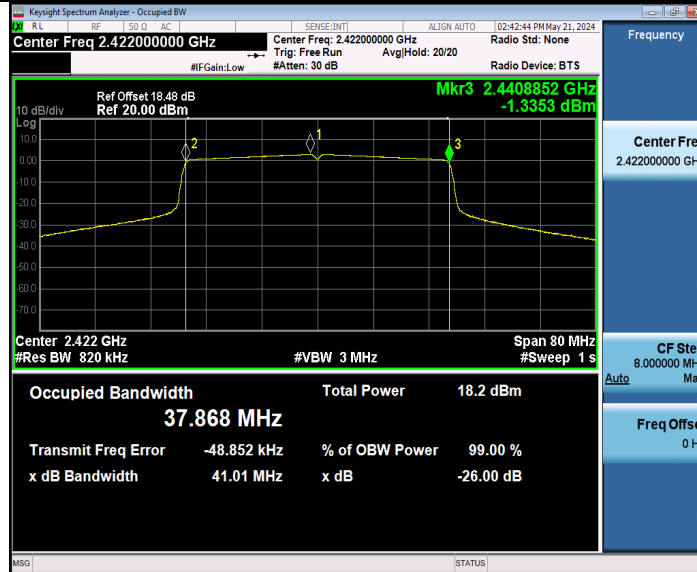


11N40SISO Ant1 2462

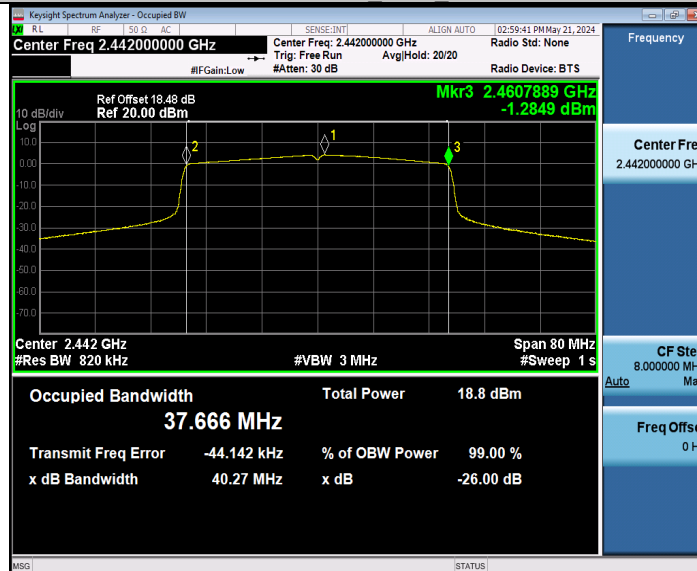




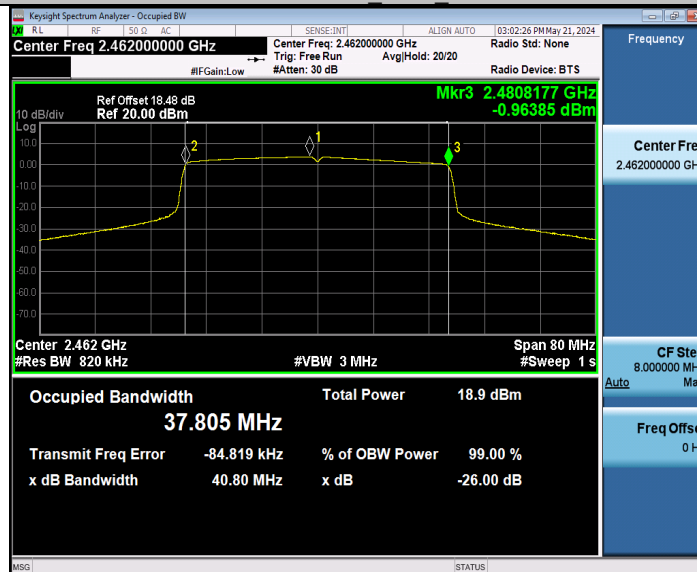
11AX40SISO Ant1 2422



11AX40SISO Ant1 2442



11AX40SISO Ant1 2462



Appendix D: Transmitter Unwanted Emissions In The Out-Of-BandDomain**Test Result**

| TestMode | Antenna | Frequency[MHz] | Freq. [MHz] | Level[dBm/MHz] | Limit[dBm/MHz] | Verdict |
|----------|---------|----------------|-------------|----------------|----------------|---------|
| 11B | Ant1 | 2412 | 2370.89 | -44.65 | -20.00 | PASS |
| | | | 2371.28 | -44.74 | -20.00 | PASS |
| | | | 2371.89 | -44.85 | -20.00 | PASS |
| | | | 2372.89 | -44.67 | -20.00 | PASS |
| | | | 2373.89 | -44.39 | -20.00 | PASS |
| | | | 2374.89 | -44.46 | -20.00 | PASS |
| | | | 2375.89 | -45.00 | -20.00 | PASS |
| | | | 2376.89 | -45.17 | -20.00 | PASS |
| | | | 2377.89 | -45.14 | -20.00 | PASS |
| | | | 2378.89 | -44.30 | -20.00 | PASS |
| | | | 2379.89 | -44.46 | -20.00 | PASS |
| | | | 2380.89 | -45.10 | -20.00 | PASS |
| | | | 2381.89 | -43.77 | -20.00 | PASS |
| | | | 2382.89 | -42.61 | -20.00 | PASS |
| | | | 2383.89 | -43.31 | -20.00 | PASS |
| | | | 2384.89 | -42.75 | -20.00 | PASS |
| | | | 2385.5 | -42.42 | -10.00 | PASS |
| | | | 2385.89 | -42.14 | -10.00 | PASS |
| | | | 2386.5 | -41.95 | -10.00 | PASS |
| | | | 2387.5 | -41.79 | -10.00 | PASS |
| | | | 2388.5 | -42.55 | -10.00 | PASS |
| | | | 2389.5 | -43.79 | -10.00 | PASS |
| | | | 2390.5 | -43.27 | -10.00 | PASS |
| | | | 2391.5 | -41.79 | -10.00 | PASS |
| | | | 2392.5 | -39.86 | -10.00 | PASS |
| | | | 2393.5 | -42.22 | -10.00 | PASS |
| | | | 2394.5 | -38.70 | -10.00 | PASS |
| | | | 2395.5 | -39.49 | -10.00 | PASS |
| | | | 2396.5 | -41.29 | -10.00 | PASS |
| | | | 2397.5 | -31.99 | -10.00 | PASS |
| | | | 2398.5 | -28.55 | -10.00 | PASS |
| | | | 2399.5 | -28.02 | -10.00 | PASS |
| | | | 2484 | -45.49 | -10.00 | PASS |
| | | | 2485 | -45.52 | -10.00 | PASS |
| | | | 2486 | -45.23 | -10.00 | PASS |
| | | | 2487 | -45.47 | -10.00 | PASS |
| | | | 2488 | -45.49 | -10.00 | PASS |
| | | | 2489 | -45.34 | -10.00 | PASS |
| | | | 2490 | -45.22 | -10.00 | PASS |
| | | | 2491 | -45.36 | -10.00 | PASS |
| | | | 2492 | -45.27 | -10.00 | PASS |
| | | | 2493 | -45.04 | -10.00 | PASS |
| | | | 2494 | -45.37 | -10.00 | PASS |
| | | | 2495 | -45.38 | -10.00 | PASS |
| | | | 2496 | -45.54 | -10.00 | PASS |
| | | | 2497 | -45.44 | -10.00 | PASS |
| | | | 2497.61 | -45.20 | -10.00 | PASS |
| | | | 2498 | -45.24 | -10.00 | PASS |
| | | | 2498.61 | -45.46 | -20.00 | PASS |
| | | | 2499.61 | -45.43 | -20.00 | PASS |
| | | | 2500.61 | -45.14 | -20.00 | PASS |
| | | | 2501.61 | -45.28 | -20.00 | PASS |
| | | | 2502.61 | -45.13 | -20.00 | PASS |
| | | | 2503.61 | -45.29 | -20.00 | PASS |
| | | | 2504.61 | -45.38 | -20.00 | PASS |
| | | | 2505.61 | -45.38 | -20.00 | PASS |
| | | | 2506.61 | -45.40 | -20.00 | PASS |
| | | | 2507.61 | -45.35 | -20.00 | PASS |
| | | | 2508.61 | -45.30 | -20.00 | PASS |

| | | | | | | |
|--|--|------|----------|--------|--------|------|
| | | | 2509.61 | -45.39 | -20.00 | PASS |
| | | | 2510.61 | -45.44 | -20.00 | PASS |
| | | | 2511.61 | -45.35 | -20.00 | PASS |
| | | | 2512.22 | -45.34 | -20.00 | PASS |
| | | | 2512.61 | -45.38 | -20.00 | PASS |
| | | 2472 | 2371.596 | -45.87 | -20.00 | PASS |
| | | | 2372.048 | -45.83 | -20.00 | PASS |
| | | | 2373.048 | -45.69 | -20.00 | PASS |
| | | | 2374.048 | -45.88 | -20.00 | PASS |
| | | | 2375.048 | -45.74 | -20.00 | PASS |
| | | | 2376.048 | -45.82 | -20.00 | PASS |
| | | | 2377.048 | -45.75 | -20.00 | PASS |
| | | | 2378.048 | -45.72 | -20.00 | PASS |
| | | | 2379.048 | -45.77 | -20.00 | PASS |
| | | | 2380.048 | -45.62 | -20.00 | PASS |
| | | | 2381.048 | -45.76 | -20.00 | PASS |
| | | | 2382.048 | -45.71 | -20.00 | PASS |
| | | | 2383.048 | -45.67 | -20.00 | PASS |
| | | | 2384.048 | -45.81 | -20.00 | PASS |
| | | | 2385.048 | -45.69 | -20.00 | PASS |
| | | | 2386.048 | -45.54 | -10.00 | PASS |
| | | | 2386.5 | -45.50 | -10.00 | PASS |
| | | | 2387.5 | -45.52 | -10.00 | PASS |
| | | | 2388.5 | -45.49 | -10.00 | PASS |
| | | | 2389.5 | -45.63 | -10.00 | PASS |
| | | | 2390.5 | -45.55 | -10.00 | PASS |
| | | | 2391.5 | -45.52 | -10.00 | PASS |
| | | | 2392.5 | -45.46 | -10.00 | PASS |
| | | | 2393.5 | -45.47 | -10.00 | PASS |
| | | | 2394.5 | -45.44 | -10.00 | PASS |
| | | | 2395.5 | -45.27 | -10.00 | PASS |
| | | | 2396.5 | -45.48 | -10.00 | PASS |
| | | | 2397.5 | -45.24 | -10.00 | PASS |
| | | | 2398.5 | -45.47 | -10.00 | PASS |
| | | | 2399.5 | -45.24 | -10.00 | PASS |
| | | | 2484 | -31.59 | -10.00 | PASS |
| | | | 2485 | -30.31 | -10.00 | PASS |
| | | | 2486 | -31.41 | -10.00 | PASS |
| | | | 2487 | -30.39 | -10.00 | PASS |
| | | | 2488 | -29.96 | -10.00 | PASS |
| | | | 2489 | -30.73 | -10.00 | PASS |
| | | | 2490 | -35.22 | -10.00 | PASS |
| | | | 2491 | -36.72 | -10.00 | PASS |
| | | | 2492 | -38.92 | -10.00 | PASS |
| | | | 2493 | -41.67 | -10.00 | PASS |
| | | | 2494 | -44.07 | -10.00 | PASS |
| | | | 2495 | -42.00 | -10.00 | PASS |
| | | | 2496 | -39.49 | -10.00 | PASS |
| | | | 2497 | -38.31 | -10.00 | PASS |
| | | | 2497.452 | -37.17 | -10.00 | PASS |
| | | | 2498.452 | -35.68 | -20.00 | PASS |
| | | | 2499.452 | -37.33 | -20.00 | PASS |
| | | | 2500.452 | -38.18 | -20.00 | PASS |
| | | | 2501.452 | -38.62 | -20.00 | PASS |
| | | | 2502.452 | -41.09 | -20.00 | PASS |
| | | | 2503.452 | -42.53 | -20.00 | PASS |
| | | | 2504.452 | -44.52 | -20.00 | PASS |
| | | | 2505.452 | -43.19 | -20.00 | PASS |
| | | | 2506.452 | -44.00 | -20.00 | PASS |
| | | | 2507.452 | -43.62 | -20.00 | PASS |
| | | | 2508.452 | -43.59 | -20.00 | PASS |
| | | | 2509.452 | -43.40 | -20.00 | PASS |
| | | | 2510.452 | -44.05 | -20.00 | PASS |
| | | | 2511.452 | -44.05 | -20.00 | PASS |

| | | | | | | |
|--|--|--|----------|--------|--------|------|
| | | | 2511.904 | -43.87 | -20.00 | PASS |
| | | | 2366.962 | -40.59 | -20.00 | PASS |
| | | | 2367.424 | -40.36 | -20.00 | PASS |
| | | | 2367.962 | -40.38 | -20.00 | PASS |
| | | | 2368.962 | -40.34 | -20.00 | PASS |
| | | | 2369.962 | -40.25 | -20.00 | PASS |
| | | | 2370.962 | -40.04 | -20.00 | PASS |
| | | | 2371.962 | -39.34 | -20.00 | PASS |
| | | | 2372.962 | -39.11 | -20.00 | PASS |
| | | | 2373.962 | -38.68 | -20.00 | PASS |
| | | | 2374.962 | -38.42 | -20.00 | PASS |
| | | | 2375.962 | -38.42 | -20.00 | PASS |
| | | | 2376.962 | -37.43 | -20.00 | PASS |
| | | | 2377.962 | -37.40 | -20.00 | PASS |
| | | | 2378.962 | -36.90 | -20.00 | PASS |
| | | | 2379.962 | -36.13 | -20.00 | PASS |
| | | | 2380.962 | -35.83 | -20.00 | PASS |
| | | | 2381.962 | -35.20 | -20.00 | PASS |
| | | | 2382.962 | -34.67 | -20.00 | PASS |
| | | | 2383.5 | -34.41 | -10.00 | PASS |
| | | | 2383.962 | -33.96 | -10.00 | PASS |
| | | | 2384.5 | -33.68 | -10.00 | PASS |
| | | | 2385.5 | -32.91 | -10.00 | PASS |
| | | | 2386.5 | -32.22 | -10.00 | PASS |
| | | | 2387.5 | -31.53 | -10.00 | PASS |
| | | | 2388.5 | -30.68 | -10.00 | PASS |
| | | | 2389.5 | -29.54 | -10.00 | PASS |
| | | | 2390.5 | -28.22 | -10.00 | PASS |
| | | | 2391.5 | -26.65 | -10.00 | PASS |
| | | | 2392.5 | -24.80 | -10.00 | PASS |
| | | | 2393.5 | -22.24 | -10.00 | PASS |
| | | | 2394.5 | -19.85 | -10.00 | PASS |
| | | | 2395.5 | -18.10 | -10.00 | PASS |
| | | | 2396.5 | -17.02 | -10.00 | PASS |
| | | | 2397.5 | -16.21 | -10.00 | PASS |
| | | | 2398.5 | -14.97 | -10.00 | PASS |
| | | | 2399.5 | -12.93 | -10.00 | PASS |
| | | | 2484 | -43.22 | -10.00 | PASS |
| | | | 2485 | -43.39 | -10.00 | PASS |
| | | | 2486 | -43.43 | -10.00 | PASS |
| | | | 2487 | -43.35 | -10.00 | PASS |
| | | | 2488 | -43.55 | -10.00 | PASS |
| | | | 2489 | -43.54 | -10.00 | PASS |
| | | | 2490 | -43.55 | -10.00 | PASS |
| | | | 2491 | -43.66 | -10.00 | PASS |
| | | | 2492 | -43.63 | -10.00 | PASS |
| | | | 2493 | -44.05 | -10.00 | PASS |
| | | | 2494 | -43.82 | -10.00 | PASS |
| | | | 2495 | -44.12 | -10.00 | PASS |
| | | | 2496 | -44.05 | -10.00 | PASS |
| | | | 2497 | -44.30 | -10.00 | PASS |
| | | | 2498 | -44.18 | -10.00 | PASS |
| | | | 2499 | -44.26 | -10.00 | PASS |
| | | | 2499.538 | -44.46 | -10.00 | PASS |
| | | | 2500 | -44.37 | -10.00 | PASS |
| | | | 2500.538 | -44.22 | -20.00 | PASS |
| | | | 2501.538 | -44.39 | -20.00 | PASS |
| | | | 2502.538 | -44.39 | -20.00 | PASS |
| | | | 2503.538 | -44.57 | -20.00 | PASS |
| | | | 2504.538 | -44.59 | -20.00 | PASS |
| | | | 2505.538 | -44.60 | -20.00 | PASS |
| | | | 2506.538 | -44.73 | -20.00 | PASS |
| | | | 2507.538 | -44.79 | -20.00 | PASS |
| | | | 2508.538 | -44.70 | -20.00 | PASS |

11G

Ant1

2412

| | | | | | | |
|--|--|--|----------|--------|--------|------|
| | | | 2509.538 | -44.81 | -20.00 | PASS |
| | | | 2510.538 | -44.76 | -20.00 | PASS |
| | | | 2511.538 | -44.88 | -20.00 | PASS |
| | | | 2512.538 | -44.81 | -20.00 | PASS |
| | | | 2513.538 | -44.80 | -20.00 | PASS |
| | | | 2514.538 | -44.84 | -20.00 | PASS |
| | | | 2515.538 | -44.79 | -20.00 | PASS |
| | | | 2516.076 | -44.85 | -20.00 | PASS |
| | | | 2516.538 | -44.86 | -20.00 | PASS |
| | | | 2366.957 | -40.13 | -20.00 | PASS |
| | | | 2367.414 | -39.86 | -20.00 | PASS |
| | | | 2367.957 | -39.69 | -20.00 | PASS |
| | | | 2368.957 | -39.03 | -20.00 | PASS |
| | | | 2369.957 | -38.67 | -20.00 | PASS |
| | | | 2370.957 | -38.22 | -20.00 | PASS |
| | | | 2371.957 | -37.85 | -20.00 | PASS |
| | | | 2372.957 | -37.56 | -20.00 | PASS |
| | | | 2373.957 | -37.11 | -20.00 | PASS |
| | | | 2374.957 | -37.07 | -20.00 | PASS |
| | | | 2375.957 | -36.90 | -20.00 | PASS |
| | | | 2376.957 | -36.86 | -20.00 | PASS |
| | | | 2377.957 | -36.73 | -20.00 | PASS |
| | | | 2378.957 | -36.87 | -20.00 | PASS |
| | | | 2379.957 | -36.76 | -20.00 | PASS |
| | | | 2380.957 | -36.86 | -20.00 | PASS |
| | | | 2381.957 | -37.16 | -20.00 | PASS |
| | | | 2382.957 | -37.15 | -20.00 | PASS |
| | | | 2383.5 | -37.41 | -10.00 | PASS |
| | | | 2383.957 | -37.45 | -10.00 | PASS |
| | | | 2384.5 | -37.53 | -10.00 | PASS |
| | | | 2385.5 | -37.85 | -10.00 | PASS |
| | | | 2386.5 | -38.07 | -10.00 | PASS |
| | | | 2387.5 | -38.08 | -10.00 | PASS |
| | | | 2388.5 | -38.75 | -10.00 | PASS |
| | | | 2389.5 | -38.85 | -10.00 | PASS |
| | | | 2390.5 | -39.21 | -10.00 | PASS |
| | | | 2391.5 | -39.78 | -10.00 | PASS |
| | | | 2392.5 | -40.10 | -10.00 | PASS |
| | | | 2393.5 | -39.98 | -10.00 | PASS |
| | | | 2394.5 | -39.77 | -10.00 | PASS |
| | | | 2395.5 | -40.03 | -10.00 | PASS |
| | | | 2396.5 | -40.16 | -10.00 | PASS |
| | | | 2397.5 | -40.52 | -10.00 | PASS |
| | | | 2398.5 | -40.49 | -10.00 | PASS |
| | | | 2399.5 | -40.49 | -10.00 | PASS |
| | | | 2484 | -12.25 | -10.00 | PASS |
| | | | 2485 | -14.45 | -10.00 | PASS |
| | | | 2486 | -15.85 | -10.00 | PASS |
| | | | 2487 | -16.85 | -10.00 | PASS |
| | | | 2488 | -17.75 | -10.00 | PASS |
| | | | 2489 | -19.27 | -10.00 | PASS |
| | | | 2490 | -21.44 | -10.00 | PASS |
| | | | 2491 | -23.76 | -10.00 | PASS |
| | | | 2492 | -25.82 | -10.00 | PASS |
| | | | 2493 | -27.62 | -10.00 | PASS |
| | | | 2494 | -29.08 | -10.00 | PASS |
| | | | 2495 | -30.35 | -10.00 | PASS |
| | | | 2496 | -31.38 | -10.00 | PASS |
| | | | 2497 | -32.03 | -10.00 | PASS |
| | | | 2498 | -32.58 | -10.00 | PASS |
| | | | 2499 | -33.04 | -10.00 | PASS |
| | | | 2499.543 | -33.53 | -10.00 | PASS |
| | | | 2500 | -33.73 | -10.00 | PASS |
| | | | 2500.543 | -33.84 | -20.00 | PASS |

2472

| | | | | | | |
|-----------|------|------|----------|--------|--------|------|
| | | | 2501.543 | -34.42 | -20.00 | PASS |
| | | | 2502.543 | -34.63 | -20.00 | PASS |
| | | | 2503.543 | -34.96 | -20.00 | PASS |
| | | | 2504.543 | -35.56 | -20.00 | PASS |
| | | | 2505.543 | -35.88 | -20.00 | PASS |
| | | | 2506.543 | -36.50 | -20.00 | PASS |
| | | | 2507.543 | -36.51 | -20.00 | PASS |
| | | | 2508.543 | -37.25 | -20.00 | PASS |
| | | | 2509.543 | -37.68 | -20.00 | PASS |
| | | | 2510.543 | -38.17 | -20.00 | PASS |
| | | | 2511.543 | -38.55 | -20.00 | PASS |
| | | | 2512.543 | -39.04 | -20.00 | PASS |
| | | | 2513.543 | -39.44 | -20.00 | PASS |
| | | | 2514.543 | -39.88 | -20.00 | PASS |
| | | | 2515.543 | -40.20 | -20.00 | PASS |
| | | | 2516.086 | -40.45 | -20.00 | PASS |
| | | | 2516.543 | -40.57 | -20.00 | PASS |
| 11N20SISO | Ant1 | 2412 | 2364.746 | -42.51 | -20.00 | PASS |
| | | | 2364.992 | -42.28 | -20.00 | PASS |
| | | | 2365.746 | -42.14 | -20.00 | PASS |
| | | | 2366.746 | -41.71 | -20.00 | PASS |
| | | | 2367.746 | -41.70 | -20.00 | PASS |
| | | | 2368.746 | -40.96 | -20.00 | PASS |
| | | | 2369.746 | -41.68 | -20.00 | PASS |
| | | | 2370.746 | -46.31 | -20.00 | PASS |
| | | | 2371.746 | -46.32 | -20.00 | PASS |
| | | | 2372.746 | -46.30 | -20.00 | PASS |
| | | | 2373.746 | -46.29 | -20.00 | PASS |
| | | | 2374.746 | -46.28 | -20.00 | PASS |
| | | | 2375.746 | -46.28 | -20.00 | PASS |
| | | | 2376.746 | -46.28 | -20.00 | PASS |
| | | | 2377.746 | -46.27 | -20.00 | PASS |
| | | | 2378.746 | -46.27 | -20.00 | PASS |
| | | | 2379.746 | -46.25 | -20.00 | PASS |
| | | | 2380.746 | -46.26 | -20.00 | PASS |
| | | | 2381.746 | -46.24 | -20.00 | PASS |
| | | | 2382.5 | -46.25 | -10.00 | PASS |
| | | | 2382.746 | -46.22 | -10.00 | PASS |
| | | | 2383.5 | -46.25 | -10.00 | PASS |
| | | | 2384.5 | -46.24 | -10.00 | PASS |
| | | | 2385.5 | -46.23 | -10.00 | PASS |
| | | | 2386.5 | -46.24 | -10.00 | PASS |
| | | | 2387.5 | -46.25 | -10.00 | PASS |
| | | | 2388.5 | -46.27 | -10.00 | PASS |
| | | | 2389.5 | -46.25 | -10.00 | PASS |
| | | | 2390.5 | -46.25 | -10.00 | PASS |
| | | | 2391.5 | -46.26 | -10.00 | PASS |
| | | | 2392.5 | -46.29 | -10.00 | PASS |
| | | | 2393.5 | -46.27 | -10.00 | PASS |
| | | | 2394.5 | -46.25 | -10.00 | PASS |
| | | | 2395.5 | -46.25 | -10.00 | PASS |
| | | | 2396.5 | -46.27 | -10.00 | PASS |
| | | | 2397.5 | -46.28 | -10.00 | PASS |
| | | | 2398.5 | -46.30 | -10.00 | PASS |
| | | | 2399.5 | -46.28 | -10.00 | PASS |
| | | | 2484 | -46.07 | -10.00 | PASS |
| | | | 2485 | -46.06 | -10.00 | PASS |
| | | | 2486 | -46.04 | -10.00 | PASS |
| | | | 2487 | -46.03 | -10.00 | PASS |
| | | | 2488 | -46.02 | -10.00 | PASS |
| | | | 2489 | -46.03 | -10.00 | PASS |
| | | | 2490 | -46.02 | -10.00 | PASS |
| | | | 2491 | -46.02 | -10.00 | PASS |
| | | | 2492 | -46.00 | -10.00 | PASS |

| | | | | | | |
|--|--|------|----------|--------|--------|------|
| | | | 2493 | -45.98 | -10.00 | PASS |
| | | | 2494 | -45.98 | -10.00 | PASS |
| | | | 2495 | -45.96 | -10.00 | PASS |
| | | | 2496 | -45.94 | -10.00 | PASS |
| | | | 2497 | -45.96 | -10.00 | PASS |
| | | | 2498 | -45.92 | -10.00 | PASS |
| | | | 2499 | -45.92 | -10.00 | PASS |
| | | | 2500 | -45.92 | -10.00 | PASS |
| | | | 2500.754 | -45.79 | -10.00 | PASS |
| | | | 2501 | -45.80 | -10.00 | PASS |
| | | | 2501.754 | -45.81 | -20.00 | PASS |
| | | | 2502.754 | -45.77 | -20.00 | PASS |
| | | | 2503.754 | -45.80 | -20.00 | PASS |
| | | | 2504.754 | -45.79 | -20.00 | PASS |
| | | | 2505.754 | -45.77 | -20.00 | PASS |
| | | | 2506.754 | -45.77 | -20.00 | PASS |
| | | | 2507.754 | -45.76 | -20.00 | PASS |
| | | | 2508.754 | -45.78 | -20.00 | PASS |
| | | | 2509.754 | -45.76 | -20.00 | PASS |
| | | | 2510.754 | -45.77 | -20.00 | PASS |
| | | | 2511.754 | -45.74 | -20.00 | PASS |
| | | | 2512.754 | -45.72 | -20.00 | PASS |
| | | | 2513.754 | -45.72 | -20.00 | PASS |
| | | | 2514.754 | -45.72 | -20.00 | PASS |
| | | | 2515.754 | -45.72 | -20.00 | PASS |
| | | | 2516.754 | -45.71 | -20.00 | PASS |
| | | | 2517.754 | -45.72 | -20.00 | PASS |
| | | | 2518.508 | -45.70 | -20.00 | PASS |
| | | | 2518.754 | -45.71 | -20.00 | PASS |
| | | 2472 | 2364.74 | -41.32 | -20.00 | PASS |
| | | | 2364.98 | -41.19 | -20.00 | PASS |
| | | | 2365.74 | -41.29 | -20.00 | PASS |
| | | | 2366.74 | -41.30 | -20.00 | PASS |
| | | | 2367.74 | -41.41 | -20.00 | PASS |
| | | | 2368.74 | -41.54 | -20.00 | PASS |
| | | | 2369.74 | -41.49 | -20.00 | PASS |
| | | | 2370.74 | -41.75 | -20.00 | PASS |
| | | | 2371.74 | -41.58 | -20.00 | PASS |
| | | | 2372.74 | -42.07 | -20.00 | PASS |
| | | | 2373.74 | -42.32 | -20.00 | PASS |
| | | | 2374.74 | -42.13 | -20.00 | PASS |
| | | | 2375.74 | -42.53 | -20.00 | PASS |
| | | | 2376.74 | -42.80 | -20.00 | PASS |
| | | | 2377.74 | -42.63 | -20.00 | PASS |
| | | | 2378.74 | -42.76 | -20.00 | PASS |
| | | | 2379.74 | -42.99 | -20.00 | PASS |
| | | | 2380.74 | -43.00 | -20.00 | PASS |
| | | | 2381.74 | -43.35 | -20.00 | PASS |
| | | | 2382.5 | -43.12 | -10.00 | PASS |
| | | | 2382.74 | -43.30 | -10.00 | PASS |
| | | | 2383.5 | -43.38 | -10.00 | PASS |
| | | | 2384.5 | -43.41 | -10.00 | PASS |
| | | | 2385.5 | -43.49 | -10.00 | PASS |
| | | | 2386.5 | -43.74 | -10.00 | PASS |
| | | | 2387.5 | -43.56 | -10.00 | PASS |
| | | | 2388.5 | -43.46 | -10.00 | PASS |
| | | | 2389.5 | -43.39 | -10.00 | PASS |
| | | | 2390.5 | -43.41 | -10.00 | PASS |
| | | | 2391.5 | -43.37 | -10.00 | PASS |
| | | | 2392.5 | -43.47 | -10.00 | PASS |
| | | | 2393.5 | -43.46 | -10.00 | PASS |
| | | | 2394.5 | -43.68 | -10.00 | PASS |
| | | | 2395.5 | -43.49 | -10.00 | PASS |
| | | | 2396.5 | -43.47 | -10.00 | PASS |

| | | | | | | |
|-----------|------|------|----------|--------|--------|------|
| | | | 2397.5 | -43.44 | -10.00 | PASS |
| | | | 2398.5 | -43.46 | -10.00 | PASS |
| | | | 2399.5 | -43.51 | -10.00 | PASS |
| | | | 2484 | -11.50 | -10.00 | PASS |
| | | | 2485 | -13.86 | -10.00 | PASS |
| | | | 2486 | -15.50 | -10.00 | PASS |
| | | | 2487 | -16.54 | -10.00 | PASS |
| | | | 2488 | -17.41 | -10.00 | PASS |
| | | | 2489 | -18.84 | -10.00 | PASS |
| | | | 2490 | -20.98 | -10.00 | PASS |
| | | | 2491 | -23.24 | -10.00 | PASS |
| | | | 2492 | -25.13 | -10.00 | PASS |
| | | | 2493 | -26.54 | -10.00 | PASS |
| | | | 2494 | -28.01 | -10.00 | PASS |
| | | | 2495 | -29.41 | -10.00 | PASS |
| | | | 2496 | -30.68 | -10.00 | PASS |
| | | | 2497 | -31.79 | -10.00 | PASS |
| | | | 2498 | -32.63 | -10.00 | PASS |
| | | | 2499 | -33.25 | -10.00 | PASS |
| | | | 2500 | -33.89 | -10.00 | PASS |
| | | | 2500.76 | -34.22 | -10.00 | PASS |
| | | | 2501 | -34.35 | -10.00 | PASS |
| | | | 2501.76 | -34.87 | -20.00 | PASS |
| | | | 2502.76 | -35.41 | -20.00 | PASS |
| | | | 2503.76 | -35.57 | -20.00 | PASS |
| | | | 2504.76 | -36.47 | -20.00 | PASS |
| | | | 2505.76 | -36.85 | -20.00 | PASS |
| | | | 2506.76 | -37.50 | -20.00 | PASS |
| | | | 2507.76 | -38.02 | -20.00 | PASS |
| | | | 2508.76 | -38.63 | -20.00 | PASS |
| | | | 2509.76 | -39.12 | -20.00 | PASS |
| | | | 2510.76 | -39.56 | -20.00 | PASS |
| | | | 2511.76 | -39.97 | -20.00 | PASS |
| | | | 2512.76 | -40.39 | -20.00 | PASS |
| | | | 2513.76 | -40.77 | -20.00 | PASS |
| | | | 2514.76 | -41.23 | -20.00 | PASS |
| | | | 2515.76 | -41.37 | -20.00 | PASS |
| | | | 2516.76 | -41.62 | -20.00 | PASS |
| | | | 2517.76 | -41.97 | -20.00 | PASS |
| | | | 2518.52 | -42.24 | -20.00 | PASS |
| | | | 2518.76 | -42.25 | -20.00 | PASS |
| 11N40SISO | Ant1 | 2422 | 2327.702 | -38.26 | -20.00 | PASS |
| | | | 2328.101 | -38.13 | -20.00 | PASS |
| | | | 2329.101 | -38.17 | -20.00 | PASS |
| | | | 2330.101 | -38.09 | -20.00 | PASS |
| | | | 2331.101 | -38.24 | -20.00 | PASS |
| | | | 2332.101 | -38.15 | -20.00 | PASS |
| | | | 2333.101 | -38.53 | -20.00 | PASS |
| | | | 2334.101 | -38.67 | -20.00 | PASS |
| | | | 2335.101 | -38.59 | -20.00 | PASS |
| | | | 2336.101 | -38.99 | -20.00 | PASS |
| | | | 2337.101 | -38.93 | -20.00 | PASS |
| | | | 2338.101 | -39.22 | -20.00 | PASS |
| | | | 2339.101 | -39.09 | -20.00 | PASS |
| | | | 2340.101 | -39.19 | -20.00 | PASS |
| | | | 2341.101 | -39.52 | -20.00 | PASS |
| | | | 2342.101 | -39.76 | -20.00 | PASS |
| | | | 2343.101 | -39.62 | -20.00 | PASS |
| | | | 2344.101 | -40.01 | -20.00 | PASS |
| | | | 2345.101 | -40.17 | -20.00 | PASS |
| | | | 2346.101 | -40.43 | -20.00 | PASS |
| | | | 2347.101 | -40.53 | -20.00 | PASS |
| | | | 2348.101 | -40.15 | -20.00 | PASS |
| | | | 2349.101 | -40.10 | -20.00 | PASS |

| | | | | | | |
|--|--|--|----------|--------|--------|------|
| | | | 2350.101 | -40.21 | -20.00 | PASS |
| | | | 2351.101 | -40.04 | -20.00 | PASS |
| | | | 2352.101 | -40.03 | -20.00 | PASS |
| | | | 2353.101 | -39.98 | -20.00 | PASS |
| | | | 2354.101 | -39.89 | -20.00 | PASS |
| | | | 2355.101 | -39.79 | -20.00 | PASS |
| | | | 2356.101 | -39.50 | -20.00 | PASS |
| | | | 2357.101 | -39.20 | -20.00 | PASS |
| | | | 2358.101 | -39.30 | -20.00 | PASS |
| | | | 2359.101 | -39.04 | -20.00 | PASS |
| | | | 2360.101 | -38.88 | -20.00 | PASS |
| | | | 2361.101 | -38.67 | -20.00 | PASS |
| | | | 2362.101 | -38.49 | -20.00 | PASS |
| | | | 2363.101 | -38.18 | -20.00 | PASS |
| | | | 2364.101 | -37.51 | -10.00 | PASS |
| | | | 2364.5 | -37.35 | -10.00 | PASS |
| | | | 2365.5 | -37.43 | -10.00 | PASS |
| | | | 2366.5 | -37.35 | -10.00 | PASS |
| | | | 2367.5 | -37.26 | -10.00 | PASS |
| | | | 2368.5 | -36.60 | -10.00 | PASS |
| | | | 2369.5 | -35.92 | -10.00 | PASS |
| | | | 2370.5 | -35.30 | -10.00 | PASS |
| | | | 2371.5 | -35.69 | -10.00 | PASS |
| | | | 2372.5 | -35.10 | -10.00 | PASS |
| | | | 2373.5 | -34.08 | -10.00 | PASS |
| | | | 2374.5 | -33.34 | -10.00 | PASS |
| | | | 2375.5 | -33.28 | -10.00 | PASS |
| | | | 2376.5 | -32.65 | -10.00 | PASS |
| | | | 2377.5 | -31.93 | -10.00 | PASS |
| | | | 2378.5 | -31.31 | -10.00 | PASS |
| | | | 2379.5 | -30.60 | -10.00 | PASS |
| | | | 2380.5 | -29.84 | -10.00 | PASS |
| | | | 2381.5 | -29.17 | -10.00 | PASS |
| | | | 2382.5 | -28.54 | -10.00 | PASS |
| | | | 2383.5 | -27.75 | -10.00 | PASS |
| | | | 2384.5 | -26.56 | -10.00 | PASS |
| | | | 2385.5 | -25.91 | -10.00 | PASS |
| | | | 2386.5 | -25.02 | -10.00 | PASS |
| | | | 2387.5 | -24.67 | -10.00 | PASS |
| | | | 2388.5 | -23.27 | -10.00 | PASS |
| | | | 2389.5 | -22.85 | -10.00 | PASS |
| | | | 2390.5 | -22.48 | -10.00 | PASS |
| | | | 2391.5 | -22.01 | -10.00 | PASS |
| | | | 2392.5 | -21.22 | -10.00 | PASS |
| | | | 2393.5 | -20.40 | -10.00 | PASS |
| | | | 2394.5 | -19.56 | -10.00 | PASS |
| | | | 2395.5 | -18.78 | -10.00 | PASS |
| | | | 2396.5 | -17.86 | -10.00 | PASS |
| | | | 2397.5 | -16.94 | -10.00 | PASS |
| | | | 2398.5 | -15.85 | -10.00 | PASS |
| | | | 2399.5 | -14.72 | -10.00 | PASS |
| | | | 2484 | -38.74 | -10.00 | PASS |
| | | | 2485 | -38.95 | -10.00 | PASS |
| | | | 2486 | -38.89 | -10.00 | PASS |
| | | | 2487 | -39.03 | -10.00 | PASS |
| | | | 2488 | -39.26 | -10.00 | PASS |
| | | | 2489 | -39.41 | -10.00 | PASS |
| | | | 2490 | -39.10 | -10.00 | PASS |
| | | | 2491 | -39.93 | -10.00 | PASS |
| | | | 2492 | -40.45 | -10.00 | PASS |
| | | | 2493 | -40.80 | -10.00 | PASS |
| | | | 2494 | -40.97 | -10.00 | PASS |
| | | | 2495 | -40.81 | -10.00 | PASS |
| | | | 2496 | -41.26 | -10.00 | PASS |

| | | | | | | |
|--|--|------|----------|--------|--------|------|
| | | | 2497 | -41.52 | -10.00 | PASS |
| | | | 2498 | -41.77 | -10.00 | PASS |
| | | | 2499 | -41.87 | -10.00 | PASS |
| | | | 2500 | -42.18 | -10.00 | PASS |
| | | | 2501 | -42.16 | -10.00 | PASS |
| | | | 2502 | -42.38 | -10.00 | PASS |
| | | | 2503 | -42.58 | -10.00 | PASS |
| | | | 2504 | -42.64 | -10.00 | PASS |
| | | | 2505 | -42.80 | -10.00 | PASS |
| | | | 2506 | -42.88 | -10.00 | PASS |
| | | | 2507 | -42.96 | -10.00 | PASS |
| | | | 2508 | -43.17 | -10.00 | PASS |
| | | | 2509 | -43.17 | -10.00 | PASS |
| | | | 2510 | -43.46 | -10.00 | PASS |
| | | | 2511 | -43.60 | -10.00 | PASS |
| | | | 2512 | -43.63 | -10.00 | PASS |
| | | | 2513 | -43.67 | -10.00 | PASS |
| | | | 2514 | -43.88 | -10.00 | PASS |
| | | | 2515 | -44.00 | -10.00 | PASS |
| | | | 2516 | -44.00 | -10.00 | PASS |
| | | | 2517 | -44.15 | -10.00 | PASS |
| | | | 2518 | -44.30 | -10.00 | PASS |
| | | | 2519 | -44.30 | -10.00 | PASS |
| | | | 2519.399 | -44.30 | -10.00 | PASS |
| | | | 2520.399 | -44.46 | -20.00 | PASS |
| | | | 2521.399 | -44.50 | -20.00 | PASS |
| | | | 2522.399 | -44.51 | -20.00 | PASS |
| | | | 2523.399 | -44.57 | -20.00 | PASS |
| | | | 2524.399 | -44.52 | -20.00 | PASS |
| | | | 2525.399 | -44.58 | -20.00 | PASS |
| | | | 2526.399 | -44.59 | -20.00 | PASS |
| | | | 2527.399 | -44.55 | -20.00 | PASS |
| | | | 2528.399 | -44.61 | -20.00 | PASS |
| | | | 2529.399 | -44.65 | -20.00 | PASS |
| | | | 2530.399 | -44.53 | -20.00 | PASS |
| | | | 2531.399 | -44.52 | -20.00 | PASS |
| | | | 2532.399 | -44.59 | -20.00 | PASS |
| | | | 2533.399 | -44.62 | -20.00 | PASS |
| | | | 2534.399 | -44.47 | -20.00 | PASS |
| | | | 2535.399 | -44.65 | -20.00 | PASS |
| | | | 2536.399 | -44.50 | -20.00 | PASS |
| | | | 2537.399 | -44.59 | -20.00 | PASS |
| | | | 2538.399 | -44.60 | -20.00 | PASS |
| | | | 2539.399 | -44.63 | -20.00 | PASS |
| | | | 2540.399 | -44.66 | -20.00 | PASS |
| | | | 2541.399 | -44.73 | -20.00 | PASS |
| | | | 2542.399 | -44.76 | -20.00 | PASS |
| | | | 2543.399 | -44.68 | -20.00 | PASS |
| | | | 2544.399 | -44.73 | -20.00 | PASS |
| | | | 2545.399 | -44.66 | -20.00 | PASS |
| | | | 2546.399 | -44.76 | -20.00 | PASS |
| | | | 2547.399 | -44.78 | -20.00 | PASS |
| | | | 2548.399 | -44.86 | -20.00 | PASS |
| | | | 2549.399 | -44.85 | -20.00 | PASS |
| | | | 2550.399 | -44.89 | -20.00 | PASS |
| | | | 2551.399 | -44.91 | -20.00 | PASS |
| | | | 2552.399 | -44.98 | -20.00 | PASS |
| | | | 2553.399 | -45.04 | -20.00 | PASS |
| | | | 2554.399 | -45.06 | -20.00 | PASS |
| | | | 2555.399 | -45.05 | -20.00 | PASS |
| | | | 2555.798 | -44.99 | -20.00 | PASS |
| | | 2462 | 2327.822 | -43.70 | -20.00 | PASS |
| | | | 2328.161 | -43.61 | -20.00 | PASS |
| | | | 2329.161 | -43.29 | -20.00 | PASS |

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|--|--|--|----------|--------|--------|------|
| | | | 2330.161 | -43.39 | -20.00 | PASS |
| | | | 2331.161 | -43.36 | -20.00 | PASS |
| | | | 2332.161 | -43.06 | -20.00 | PASS |
| | | | 2333.161 | -43.17 | -20.00 | PASS |
| | | | 2334.161 | -42.88 | -20.00 | PASS |
| | | | 2335.161 | -42.66 | -20.00 | PASS |
| | | | 2336.161 | -42.37 | -20.00 | PASS |
| | | | 2337.161 | -42.23 | -20.00 | PASS |
| | | | 2338.161 | -42.08 | -20.00 | PASS |
| | | | 2339.161 | -41.72 | -20.00 | PASS |
| | | | 2340.161 | -41.58 | -20.00 | PASS |
| | | | 2341.161 | -41.59 | -20.00 | PASS |
| | | | 2342.161 | -41.24 | -20.00 | PASS |
| | | | 2343.161 | -40.85 | -20.00 | PASS |
| | | | 2344.161 | -40.42 | -20.00 | PASS |
| | | | 2345.161 | -40.27 | -20.00 | PASS |
| | | | 2346.161 | -40.10 | -20.00 | PASS |
| | | | 2347.161 | -39.69 | -20.00 | PASS |
| | | | 2348.161 | -39.82 | -20.00 | PASS |
| | | | 2349.161 | -39.47 | -20.00 | PASS |
| | | | 2350.161 | -39.20 | -20.00 | PASS |
| | | | 2351.161 | -39.14 | -20.00 | PASS |
| | | | 2352.161 | -39.18 | -20.00 | PASS |
| | | | 2353.161 | -39.41 | -20.00 | PASS |
| | | | 2354.161 | -38.84 | -20.00 | PASS |
| | | | 2355.161 | -38.92 | -20.00 | PASS |
| | | | 2356.161 | -39.02 | -20.00 | PASS |
| | | | 2357.161 | -38.81 | -20.00 | PASS |
| | | | 2358.161 | -38.60 | -20.00 | PASS |
| | | | 2359.161 | -38.86 | -20.00 | PASS |
| | | | 2360.161 | -39.04 | -20.00 | PASS |
| | | | 2361.161 | -39.56 | -20.00 | PASS |
| | | | 2362.161 | -39.52 | -20.00 | PASS |
| | | | 2363.161 | -39.54 | -20.00 | PASS |
| | | | 2364.161 | -39.49 | -10.00 | PASS |
| | | | 2364.5 | -39.85 | -10.00 | PASS |
| | | | 2365.5 | -39.83 | -10.00 | PASS |
| | | | 2366.5 | -39.99 | -10.00 | PASS |
| | | | 2367.5 | -40.23 | -10.00 | PASS |
| | | | 2368.5 | -40.18 | -10.00 | PASS |
| | | | 2369.5 | -40.39 | -10.00 | PASS |
| | | | 2370.5 | -40.59 | -10.00 | PASS |
| | | | 2371.5 | -40.89 | -10.00 | PASS |
| | | | 2372.5 | -41.18 | -10.00 | PASS |
| | | | 2373.5 | -41.23 | -10.00 | PASS |
| | | | 2374.5 | -41.40 | -10.00 | PASS |
| | | | 2375.5 | -41.55 | -10.00 | PASS |
| | | | 2376.5 | -41.41 | -10.00 | PASS |
| | | | 2377.5 | -41.42 | -10.00 | PASS |
| | | | 2378.5 | -41.31 | -10.00 | PASS |
| | | | 2379.5 | -41.57 | -10.00 | PASS |
| | | | 2380.5 | -41.13 | -10.00 | PASS |
| | | | 2381.5 | -41.10 | -10.00 | PASS |
| | | | 2382.5 | -40.93 | -10.00 | PASS |
| | | | 2383.5 | -40.64 | -10.00 | PASS |
| | | | 2384.5 | -40.34 | -10.00 | PASS |
| | | | 2385.5 | -40.38 | -10.00 | PASS |
| | | | 2386.5 | -40.25 | -10.00 | PASS |
| | | | 2387.5 | -39.98 | -10.00 | PASS |
| | | | 2388.5 | -39.46 | -10.00 | PASS |
| | | | 2389.5 | -39.57 | -10.00 | PASS |
| | | | 2390.5 | -38.96 | -10.00 | PASS |
| | | | 2391.5 | -39.28 | -10.00 | PASS |
| | | | 2392.5 | -39.11 | -10.00 | PASS |

| | | | | | | |
|--|--|--|----------|--------|--------|------|
| | | | 2393.5 | -38.86 | -10.00 | PASS |
| | | | 2394.5 | -38.69 | -10.00 | PASS |
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| | | | 2397.5 | -37.86 | -10.00 | PASS |
| | | | 2398.5 | -37.91 | -10.00 | PASS |
| | | | 2399.5 | -37.74 | -10.00 | PASS |
| | | | 2484 | -14.37 | -10.00 | PASS |
| | | | 2485 | -15.67 | -10.00 | PASS |
| | | | 2486 | -16.72 | -10.00 | PASS |
| | | | 2487 | -17.64 | -10.00 | PASS |
| | | | 2488 | -18.52 | -10.00 | PASS |
| | | | 2489 | -19.31 | -10.00 | PASS |
| | | | 2490 | -19.75 | -10.00 | PASS |
| | | | 2491 | -20.95 | -10.00 | PASS |
| | | | 2492 | -21.76 | -10.00 | PASS |
| | | | 2493 | -22.05 | -10.00 | PASS |
| | | | 2494 | -23.21 | -10.00 | PASS |
| | | | 2495 | -23.54 | -10.00 | PASS |
| | | | 2496 | -24.31 | -10.00 | PASS |
| | | | 2497 | -24.35 | -10.00 | PASS |
| | | | 2498 | -25.23 | -10.00 | PASS |
| | | | 2499 | -25.46 | -10.00 | PASS |
| | | | 2500 | -26.62 | -10.00 | PASS |
| | | | 2501 | -27.35 | -10.00 | PASS |
| | | | 2502 | -28.09 | -10.00 | PASS |
| | | | 2503 | -28.69 | -10.00 | PASS |
| | | | 2504 | -29.31 | -10.00 | PASS |
| | | | 2505 | -29.96 | -10.00 | PASS |
| | | | 2506 | -30.75 | -10.00 | PASS |
| | | | 2507 | -31.47 | -10.00 | PASS |
| | | | 2508 | -31.92 | -10.00 | PASS |
| | | | 2509 | -32.70 | -10.00 | PASS |
| | | | 2510 | -33.08 | -10.00 | PASS |
| | | | 2511 | -33.86 | -10.00 | PASS |
| | | | 2512 | -34.74 | -10.00 | PASS |
| | | | 2513 | -35.23 | -10.00 | PASS |
| | | | 2514 | -35.46 | -10.00 | PASS |
| | | | 2515 | -35.97 | -10.00 | PASS |
| | | | 2516 | -36.30 | -10.00 | PASS |
| | | | 2517 | -36.84 | -10.00 | PASS |
| | | | 2518 | -37.15 | -10.00 | PASS |
| | | | 2519 | -37.43 | -10.00 | PASS |
| | | | 2519.339 | -37.13 | -10.00 | PASS |
| | | | 2520.339 | -37.93 | -20.00 | PASS |
| | | | 2521.339 | -38.19 | -20.00 | PASS |
| | | | 2522.339 | -38.55 | -20.00 | PASS |
| | | | 2523.339 | -38.86 | -20.00 | PASS |
| | | | 2524.339 | -39.11 | -20.00 | PASS |
| | | | 2525.339 | -39.27 | -20.00 | PASS |
| | | | 2526.339 | -39.18 | -20.00 | PASS |
| | | | 2527.339 | -39.59 | -20.00 | PASS |
| | | | 2528.339 | -39.66 | -20.00 | PASS |
| | | | 2529.339 | -39.97 | -20.00 | PASS |
| | | | 2530.339 | -39.55 | -20.00 | PASS |
| | | | 2531.339 | -40.47 | -20.00 | PASS |
| | | | 2532.339 | -40.53 | -20.00 | PASS |
| | | | 2533.339 | -40.85 | -20.00 | PASS |
| | | | 2534.339 | -40.93 | -20.00 | PASS |
| | | | 2535.339 | -40.89 | -20.00 | PASS |
| | | | 2536.339 | -41.48 | -20.00 | PASS |
| | | | 2537.339 | -41.29 | -20.00 | PASS |
| | | | 2538.339 | -41.39 | -20.00 | PASS |
| | | | 2539.339 | -41.65 | -20.00 | PASS |

| | | | | | | |
|------------|------|------|----------|--------|--------|------|
| | | | 2540.339 | -41.99 | -20.00 | PASS |
| | | | 2541.339 | -42.20 | -20.00 | PASS |
| | | | 2542.339 | -42.22 | -20.00 | PASS |
| | | | 2543.339 | -42.51 | -20.00 | PASS |
| | | | 2544.339 | -42.62 | -20.00 | PASS |
| | | | 2545.339 | -42.82 | -20.00 | PASS |
| | | | 2546.339 | -43.08 | -20.00 | PASS |
| | | | 2547.339 | -43.19 | -20.00 | PASS |
| | | | 2548.339 | -43.25 | -20.00 | PASS |
| | | | 2549.339 | -43.32 | -20.00 | PASS |
| | | | 2550.339 | -43.11 | -20.00 | PASS |
| | | | 2551.339 | -43.60 | -20.00 | PASS |
| | | | 2552.339 | -43.82 | -20.00 | PASS |
| | | | 2553.339 | -43.78 | -20.00 | PASS |
| | | | 2554.339 | -43.89 | -20.00 | PASS |
| | | | 2555.339 | -43.86 | -20.00 | PASS |
| | | | 2555.678 | -43.89 | -20.00 | PASS |
| 11AX20SISO | Ant1 | 2412 | 2362.541 | -42.39 | -20.00 | PASS |
| | | | 2362.582 | -42.19 | -20.00 | PASS |
| | | | 2363.541 | -42.21 | -20.00 | PASS |
| | | | 2364.541 | -41.74 | -20.00 | PASS |
| | | | 2365.541 | -41.62 | -20.00 | PASS |
| | | | 2366.541 | -41.27 | -20.00 | PASS |
| | | | 2367.541 | -40.75 | -20.00 | PASS |
| | | | 2368.541 | -40.62 | -20.00 | PASS |
| | | | 2369.541 | -40.15 | -20.00 | PASS |
| | | | 2370.541 | -39.32 | -20.00 | PASS |
| | | | 2371.541 | -39.18 | -20.00 | PASS |
| | | | 2372.541 | -38.67 | -20.00 | PASS |
| | | | 2373.541 | -38.01 | -20.00 | PASS |
| | | | 2374.541 | -37.78 | -20.00 | PASS |
| | | | 2375.541 | -37.17 | -20.00 | PASS |
| | | | 2376.541 | -36.71 | -20.00 | PASS |
| | | | 2377.541 | -36.35 | -20.00 | PASS |
| | | | 2378.541 | -35.92 | -20.00 | PASS |
| | | | 2379.541 | -35.23 | -20.00 | PASS |
| | | | 2380.541 | -34.71 | -20.00 | PASS |
| | | | 2381.5 | -34.63 | -10.00 | PASS |
| | | | 2381.541 | -34.57 | -10.00 | PASS |
| | | | 2382.5 | -34.17 | -10.00 | PASS |
| | | | 2383.5 | -33.55 | -10.00 | PASS |
| | | | 2384.5 | -32.99 | -10.00 | PASS |
| | | | 2385.5 | -32.17 | -10.00 | PASS |
| | | | 2386.5 | -31.31 | -10.00 | PASS |
| | | | 2387.5 | -29.97 | -10.00 | PASS |
| | | | 2388.5 | -28.86 | -10.00 | PASS |
| | | | 2389.5 | -27.57 | -10.00 | PASS |
| | | | 2390.5 | -26.39 | -10.00 | PASS |
| | | | 2391.5 | -25.22 | -10.00 | PASS |
| | | | 2392.5 | -23.76 | -10.00 | PASS |
| | | | 2393.5 | -22.20 | -10.00 | PASS |
| | | | 2394.5 | -20.07 | -10.00 | PASS |
| | | | 2395.5 | -18.42 | -10.00 | PASS |
| | | | 2396.5 | -17.46 | -10.00 | PASS |
| | | | 2397.5 | -16.60 | -10.00 | PASS |
| | | | 2398.5 | -15.13 | -10.00 | PASS |
| | | | 2399.5 | -12.98 | -10.00 | PASS |
| | | | 2484 | -43.80 | -10.00 | PASS |
| | | | 2485 | -43.60 | -10.00 | PASS |
| | | | 2486 | -43.44 | -10.00 | PASS |
| | | | 2487 | -43.59 | -10.00 | PASS |
| | | | 2488 | -43.87 | -10.00 | PASS |
| | | | 2489 | -43.69 | -10.00 | PASS |
| | | | 2490 | -43.96 | -10.00 | PASS |

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|--|--|------|----------|--------|--------|------|
| | | | 2491 | -44.06 | -10.00 | PASS |
| | | | 2492 | -44.17 | -10.00 | PASS |
| | | | 2493 | -44.27 | -10.00 | PASS |
| | | | 2494 | -44.33 | -10.00 | PASS |
| | | | 2495 | -44.41 | -10.00 | PASS |
| | | | 2496 | -44.55 | -10.00 | PASS |
| | | | 2497 | -44.59 | -10.00 | PASS |
| | | | 2498 | -44.69 | -10.00 | PASS |
| | | | 2499 | -44.70 | -10.00 | PASS |
| | | | 2500 | -44.60 | -10.00 | PASS |
| | | | 2501 | -44.69 | -10.00 | PASS |
| | | | 2501.959 | -44.64 | -10.00 | PASS |
| | | | 2502 | -44.48 | -10.00 | PASS |
| | | | 2502.959 | -44.53 | -20.00 | PASS |
| | | | 2503.959 | -44.51 | -20.00 | PASS |
| | | | 2504.959 | -44.40 | -20.00 | PASS |
| | | | 2505.959 | -44.64 | -20.00 | PASS |
| | | | 2506.959 | -44.67 | -20.00 | PASS |
| | | | 2507.959 | -44.67 | -20.00 | PASS |
| | | | 2508.959 | -44.78 | -20.00 | PASS |
| | | | 2509.959 | -44.75 | -20.00 | PASS |
| | | | 2510.959 | -44.89 | -20.00 | PASS |
| | | | 2511.959 | -44.96 | -20.00 | PASS |
| | | | 2512.959 | -45.00 | -20.00 | PASS |
| | | | 2513.959 | -45.02 | -20.00 | PASS |
| | | | 2514.959 | -45.08 | -20.00 | PASS |
| | | | 2515.959 | -45.11 | -20.00 | PASS |
| | | | 2516.959 | -45.10 | -20.00 | PASS |
| | | | 2517.959 | -45.17 | -20.00 | PASS |
| | | | 2518.959 | -45.16 | -20.00 | PASS |
| | | | 2519.959 | -45.13 | -20.00 | PASS |
| | | | 2520.918 | -45.14 | -20.00 | PASS |
| | | | 2520.959 | -45.17 | -20.00 | PASS |
| | | 2472 | 2362.535 | -40.42 | -20.00 | PASS |
| | | | 2362.57 | -40.80 | -20.00 | PASS |
| | | | 2363.535 | -40.56 | -20.00 | PASS |
| | | | 2364.535 | -40.38 | -20.00 | PASS |
| | | | 2365.535 | -40.73 | -20.00 | PASS |
| | | | 2366.535 | -40.59 | -20.00 | PASS |
| | | | 2367.535 | -40.67 | -20.00 | PASS |
| | | | 2368.535 | -40.77 | -20.00 | PASS |
| | | | 2369.535 | -41.10 | -20.00 | PASS |
| | | | 2370.535 | -41.31 | -20.00 | PASS |
| | | | 2371.535 | -41.52 | -20.00 | PASS |
| | | | 2372.535 | -41.68 | -20.00 | PASS |
| | | | 2373.535 | -41.67 | -20.00 | PASS |
| | | | 2374.535 | -41.73 | -20.00 | PASS |
| | | | 2375.535 | -42.07 | -20.00 | PASS |
| | | | 2376.535 | -42.46 | -20.00 | PASS |
| | | | 2377.535 | -42.61 | -20.00 | PASS |
| | | | 2378.535 | -42.80 | -20.00 | PASS |
| | | | 2379.535 | -43.16 | -20.00 | PASS |
| | | | 2380.535 | -43.24 | -20.00 | PASS |
| | | | 2381.5 | -43.03 | -10.00 | PASS |
| | | | 2381.535 | -43.25 | -10.00 | PASS |
| | | | 2382.5 | -43.19 | -10.00 | PASS |
| | | | 2383.5 | -43.34 | -10.00 | PASS |
| | | | 2384.5 | -43.36 | -10.00 | PASS |
| | | | 2385.5 | -43.17 | -10.00 | PASS |
| | | | 2386.5 | -43.14 | -10.00 | PASS |
| | | | 2387.5 | -43.20 | -10.00 | PASS |
| | | | 2388.5 | -43.06 | -10.00 | PASS |
| | | | 2389.5 | -43.06 | -10.00 | PASS |
| | | | 2390.5 | -43.01 | -10.00 | PASS |

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| | | | 2391.5 | -43.19 | -10.00 | PASS |
| | | | 2392.5 | -43.05 | -10.00 | PASS |
| | | | 2393.5 | -43.07 | -10.00 | PASS |
| | | | 2394.5 | -42.86 | -10.00 | PASS |
| | | | 2395.5 | -43.17 | -10.00 | PASS |
| | | | 2396.5 | -43.11 | -10.00 | PASS |
| | | | 2397.5 | -43.24 | -10.00 | PASS |
| | | | 2398.5 | -43.23 | -10.00 | PASS |
| | | | 2399.5 | -43.11 | -10.00 | PASS |
| | | | 2484 | -12.02 | -10.00 | PASS |
| | | | 2485 | -14.71 | -10.00 | PASS |
| | | | 2486 | -16.15 | -10.00 | PASS |
| | | | 2487 | -17.13 | -10.00 | PASS |
| | | | 2488 | -18.28 | -10.00 | PASS |
| | | | 2489 | -18.84 | -10.00 | PASS |
| | | | 2490 | -21.44 | -10.00 | PASS |
| | | | 2491 | -23.32 | -10.00 | PASS |
| | | | 2492 | -24.65 | -10.00 | PASS |
| | | | 2493 | -25.88 | -10.00 | PASS |
| | | | 2494 | -27.04 | -10.00 | PASS |
| | | | 2495 | -28.30 | -10.00 | PASS |
| | | | 2496 | -29.58 | -10.00 | PASS |
| | | | 2497 | -30.83 | -10.00 | PASS |
| | | | 2498 | -31.98 | -10.00 | PASS |
| | | | 2499 | -32.87 | -10.00 | PASS |
| | | | 2500 | -33.59 | -10.00 | PASS |
| | | | 2501 | -34.17 | -10.00 | PASS |
| | | | 2501.965 | -34.53 | -10.00 | PASS |
| | | | 2502 | -34.58 | -10.00 | PASS |
| | | | 2502.965 | -34.94 | -20.00 | PASS |
| | | | 2503.965 | -35.39 | -20.00 | PASS |
| | | | 2504.965 | -36.18 | -20.00 | PASS |
| | | | 2505.965 | -36.66 | -20.00 | PASS |
| | | | 2506.965 | -37.12 | -20.00 | PASS |
| | | | 2507.965 | -37.80 | -20.00 | PASS |
| | | | 2508.965 | -38.02 | -20.00 | PASS |
| | | | 2509.965 | -38.61 | -20.00 | PASS |
| | | | 2510.965 | -38.82 | -20.00 | PASS |
| | | | 2511.965 | -39.39 | -20.00 | PASS |
| | | | 2512.965 | -39.83 | -20.00 | PASS |
| | | | 2513.965 | -40.20 | -20.00 | PASS |
| | | | 2514.965 | -40.57 | -20.00 | PASS |
| | | | 2515.965 | -41.14 | -20.00 | PASS |
| | | | 2516.965 | -41.29 | -20.00 | PASS |
| | | | 2517.965 | -41.54 | -20.00 | PASS |
| | | | 2518.965 | -41.86 | -20.00 | PASS |
| | | | 2519.965 | -42.16 | -20.00 | PASS |
| | | | 2520.93 | -42.34 | -20.00 | PASS |
| | | | 2520.965 | -42.38 | -20.00 | PASS |
| 11AX40SISO | Ant1 | 2422 | 2324.632 | -38.33 | -20.00 | PASS |
| | | | 2324.764 | -38.05 | -20.00 | PASS |
| | | | 2325.632 | -38.37 | -20.00 | PASS |
| | | | 2326.632 | -37.59 | -20.00 | PASS |
| | | | 2327.632 | -37.47 | -20.00 | PASS |
| | | | 2328.632 | -37.62 | -20.00 | PASS |
| | | | 2329.632 | -37.31 | -20.00 | PASS |
| | | | 2330.632 | -37.42 | -20.00 | PASS |
| | | | 2331.632 | -37.58 | -20.00 | PASS |
| | | | 2332.632 | -38.12 | -20.00 | PASS |
| | | | 2333.632 | -37.64 | -20.00 | PASS |
| | | | 2334.632 | -38.04 | -20.00 | PASS |
| | | | 2335.632 | -37.89 | -20.00 | PASS |
| | | | 2336.632 | -38.49 | -20.00 | PASS |
| | | | 2337.632 | -38.28 | -20.00 | PASS |

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| | | | 2338.632 | -38.71 | -20.00 | PASS |
| | | | 2339.632 | -38.69 | -20.00 | PASS |
| | | | 2340.632 | -39.05 | -20.00 | PASS |
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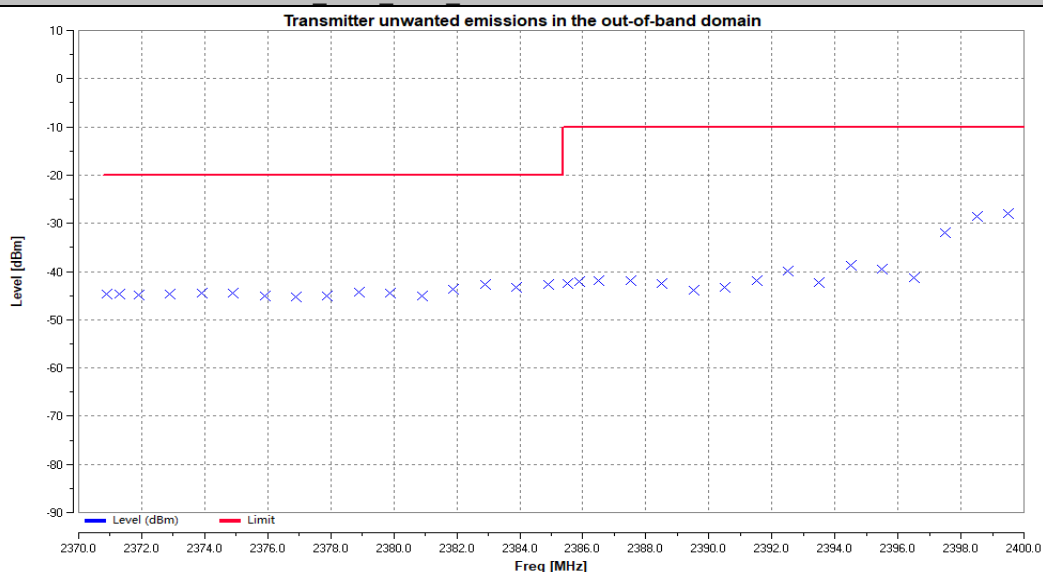
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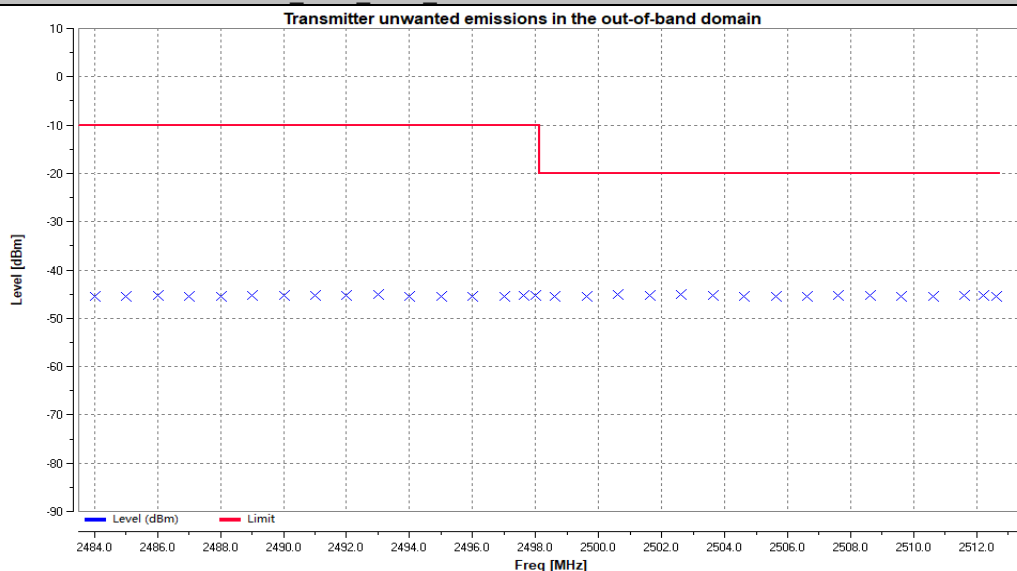
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Test Graphs

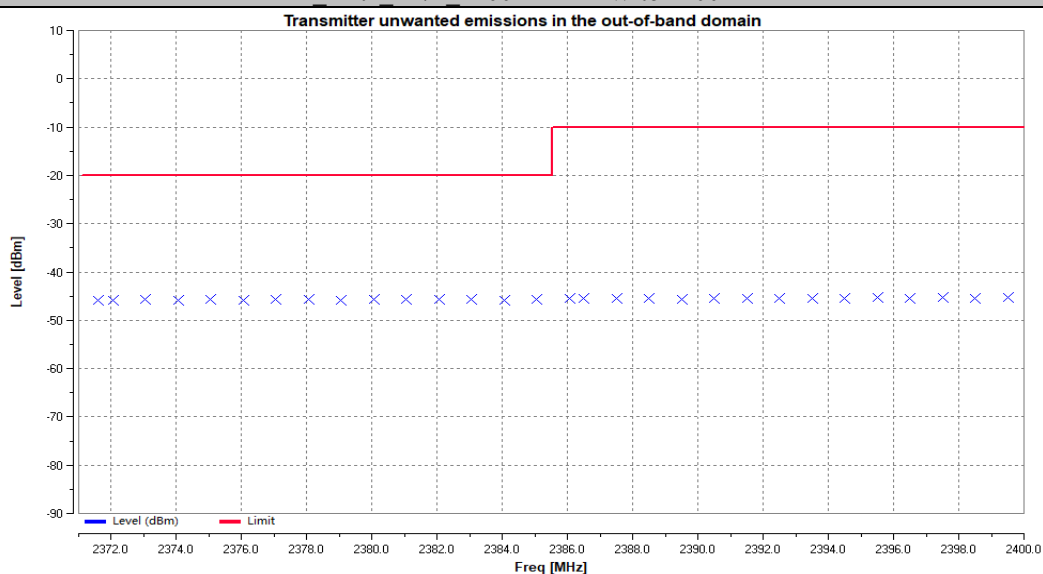
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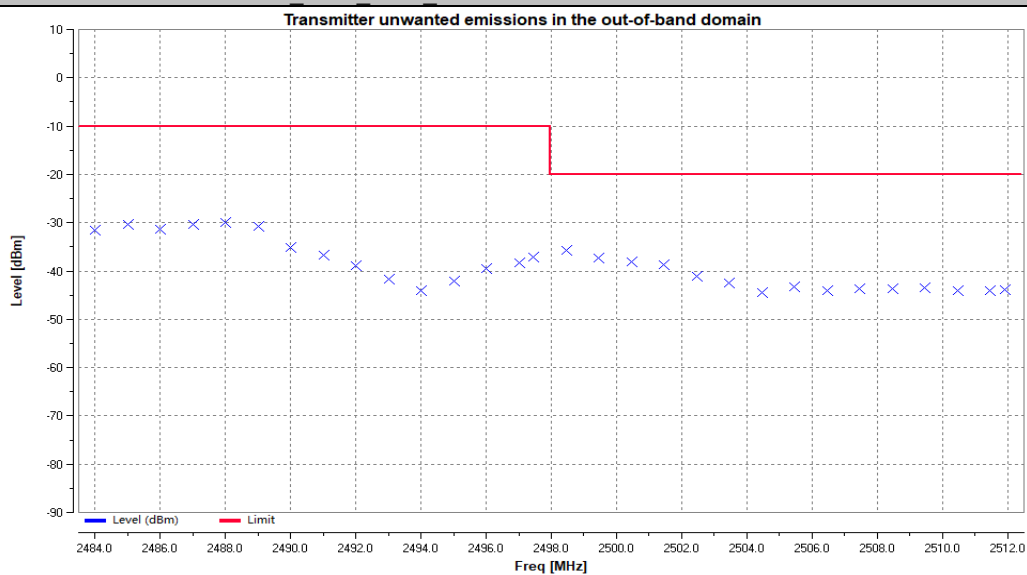
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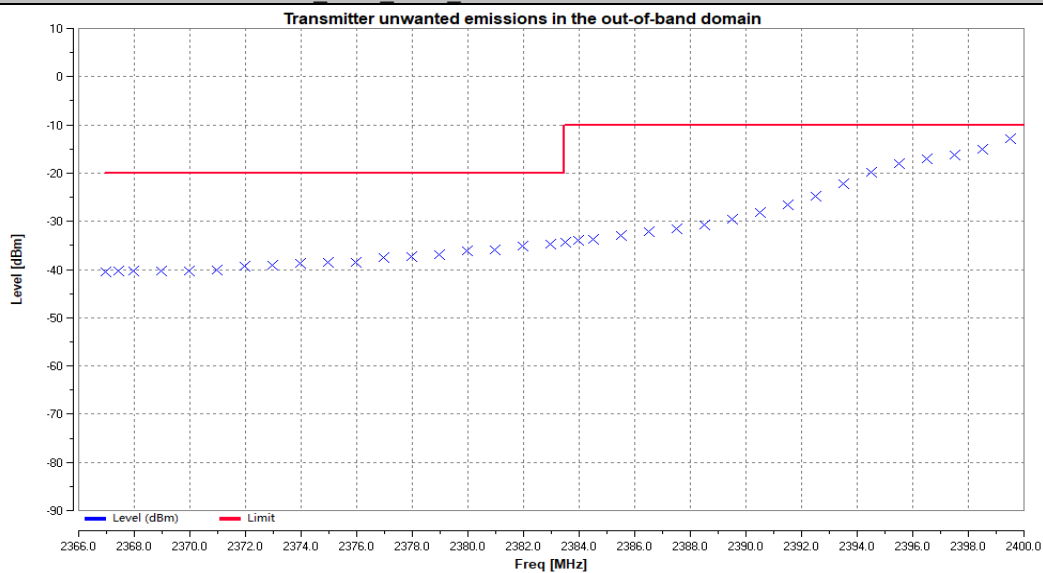
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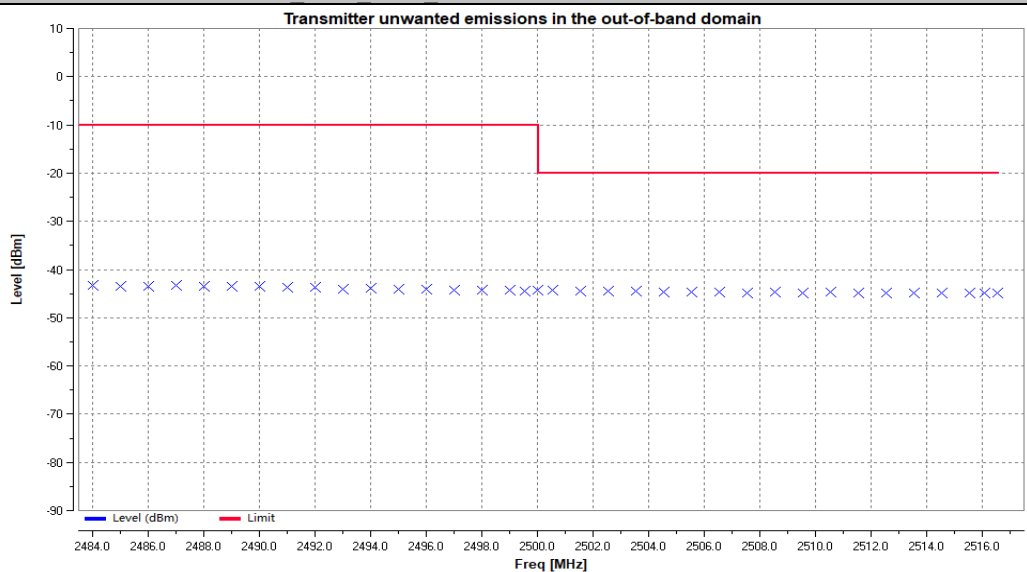
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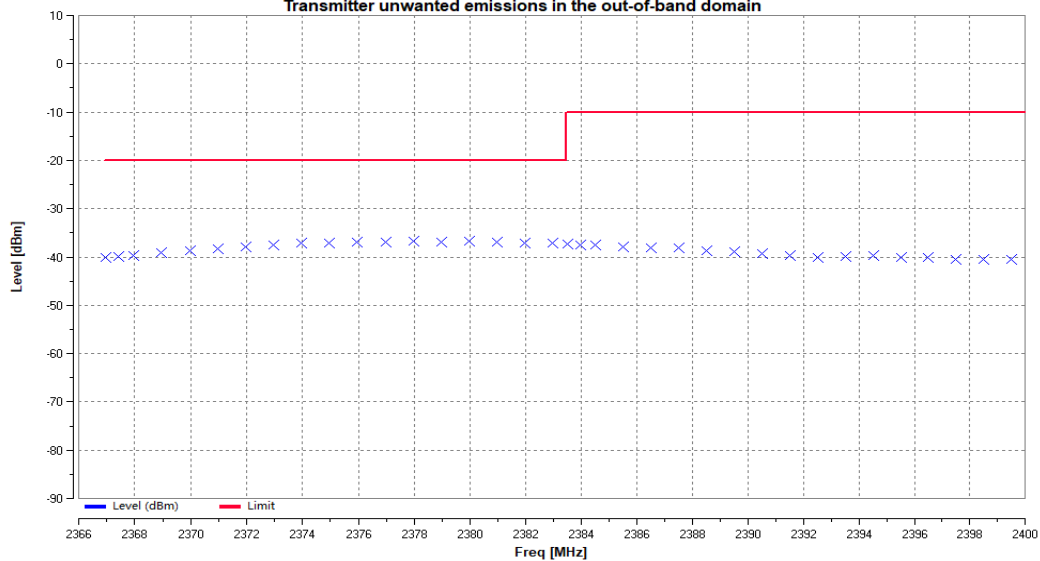


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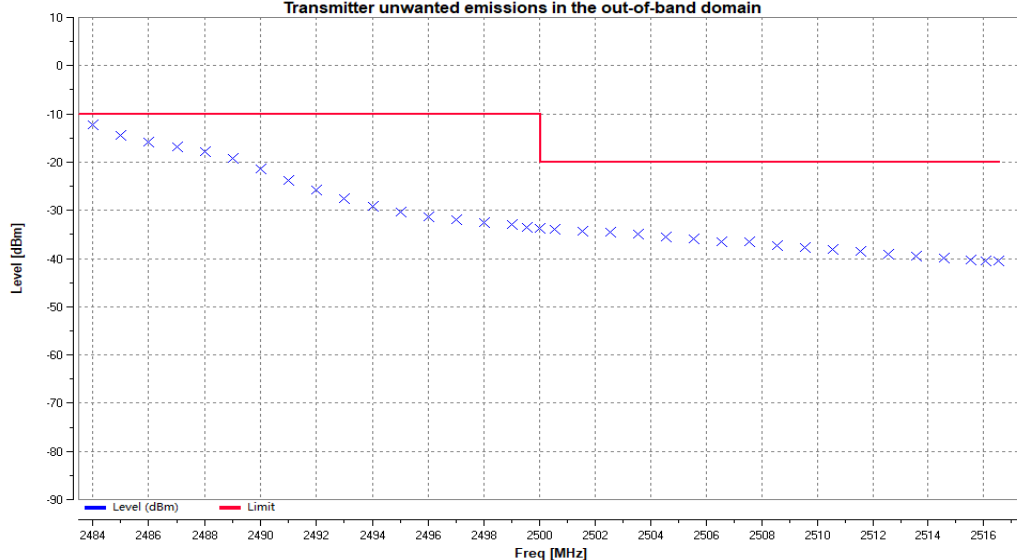
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Transmitter unwanted emissions in the out-of-band domain



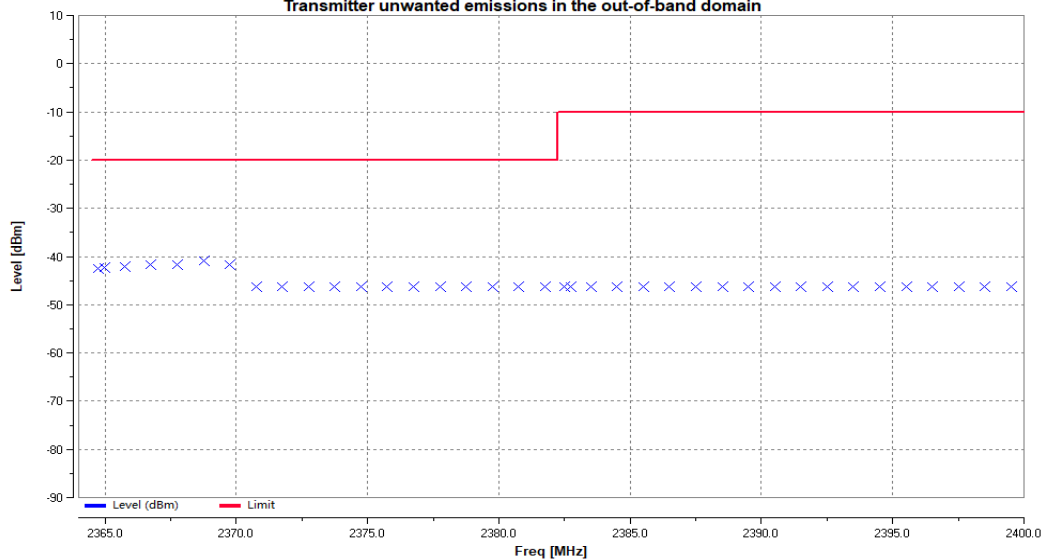
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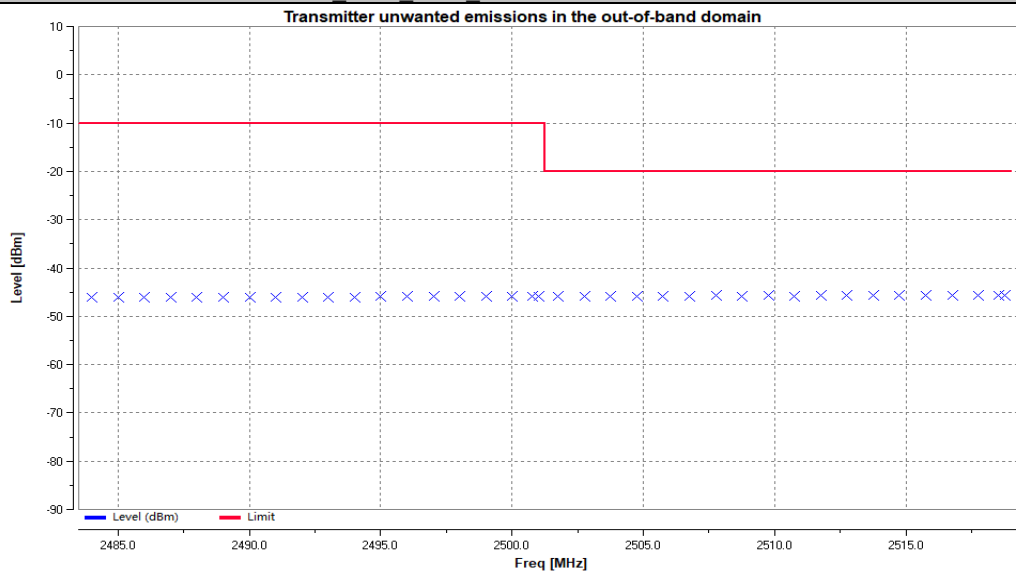


11N20SISO Ant1 2412 2400MHz-2BW to 2400MHz

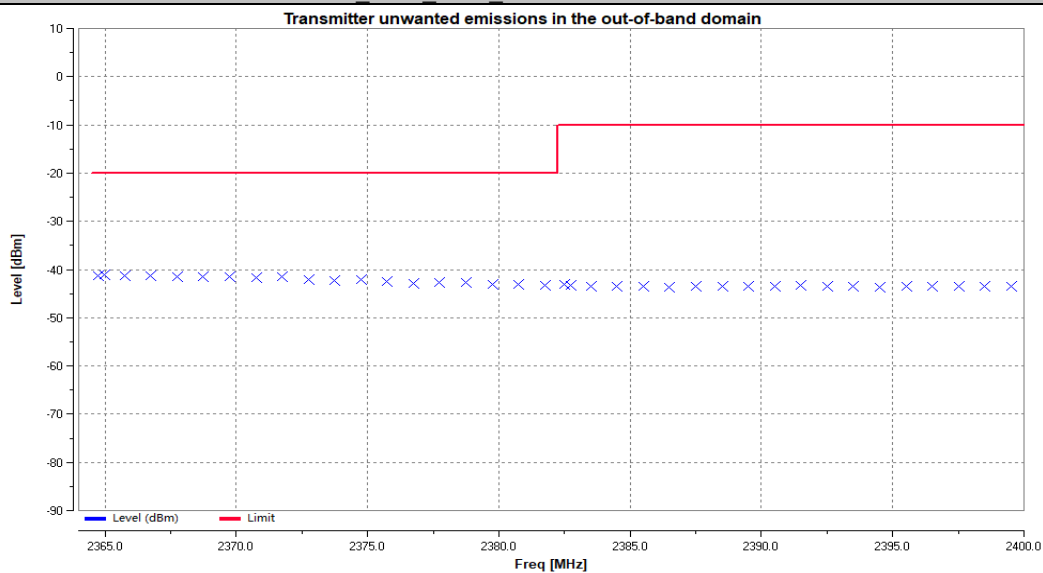
Transmitter unwanted emissions in the out-of-band domain



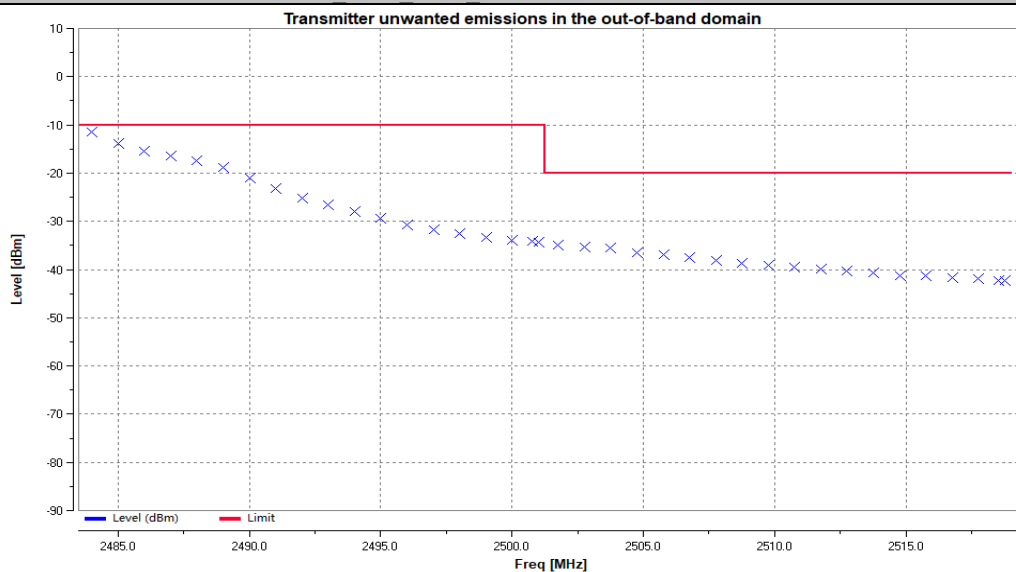
11N20SISO_Ant1_2412_2483.5MHz to 2483.5MHz+2BW



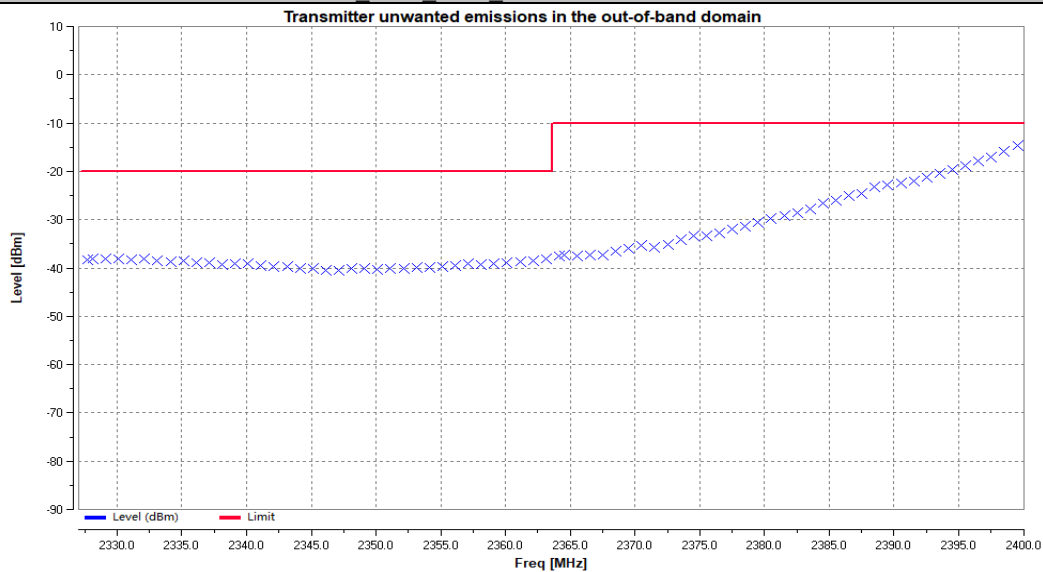
11N20SISO_Ant1_2472_2400MHz-2BW to 2400MHz



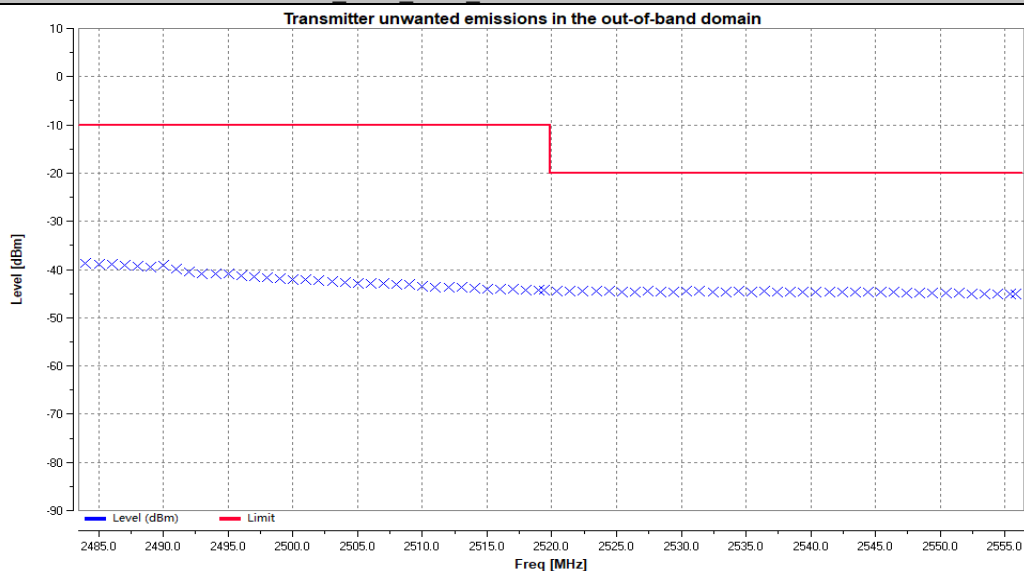
11N20SISO_Ant1_2472_2483.5MHz to 2483.5MHz+2BW



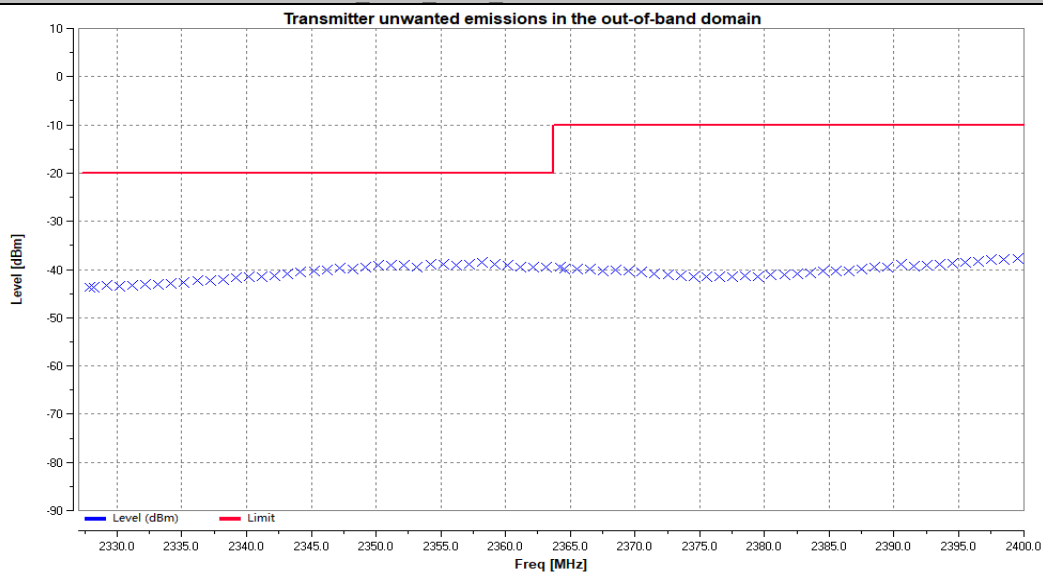
11N40SISO_Ant1_2422_2400MHz-2BW to 2400MHz



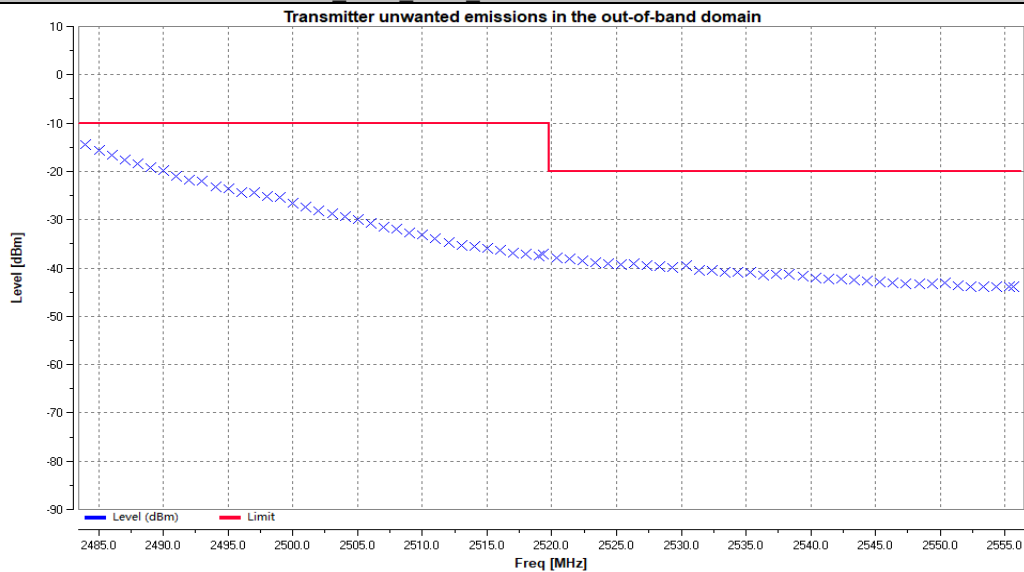
11N40SISO_Ant1_2422_2483.5MHz+2BW



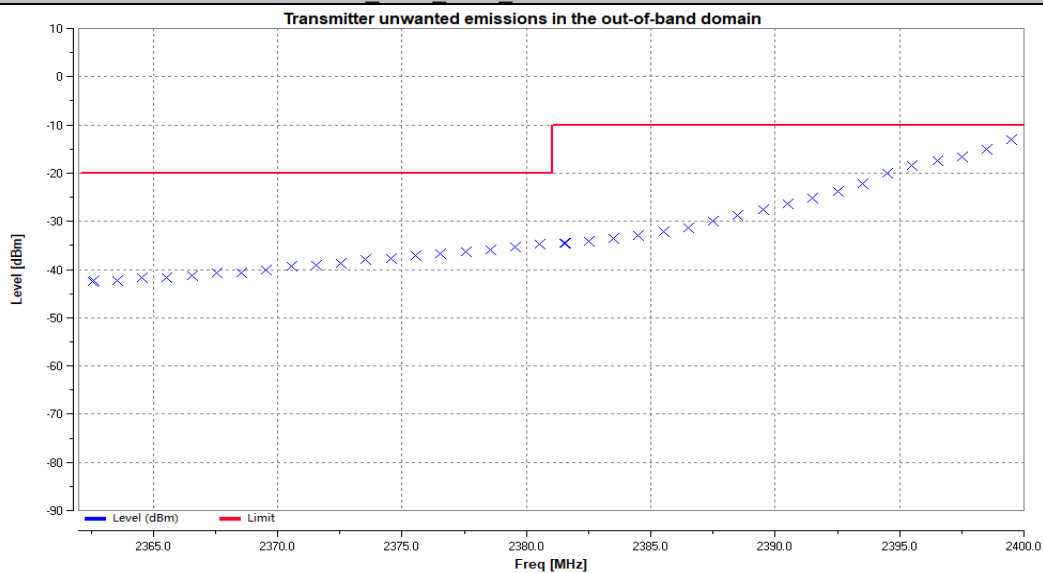
11N40SISO_Ant1_2462_2400MHz-2BW to 2400MHz



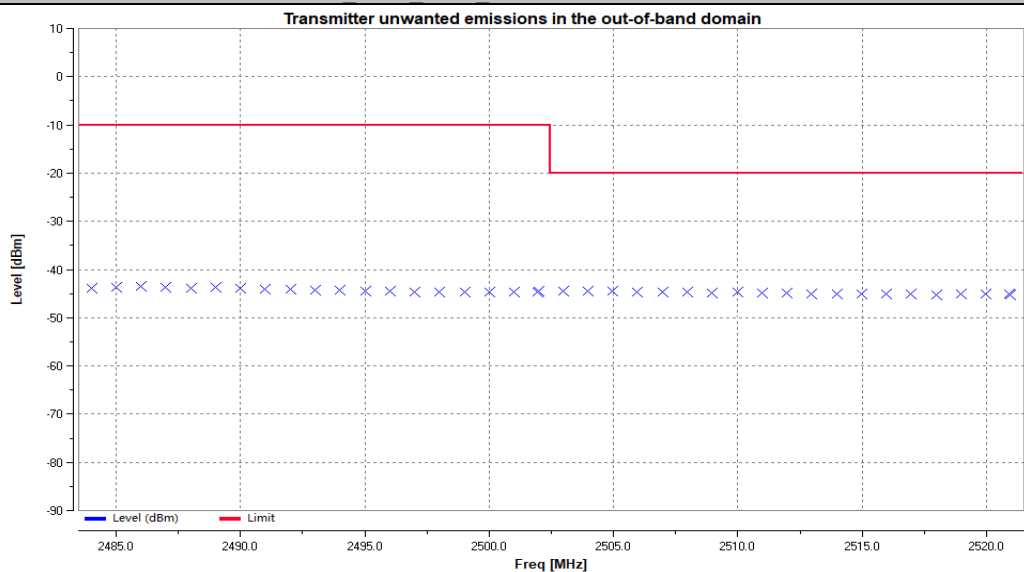
11N40SISO Ant1 2462 2483.5MHz to 2483.5MHz+2BW



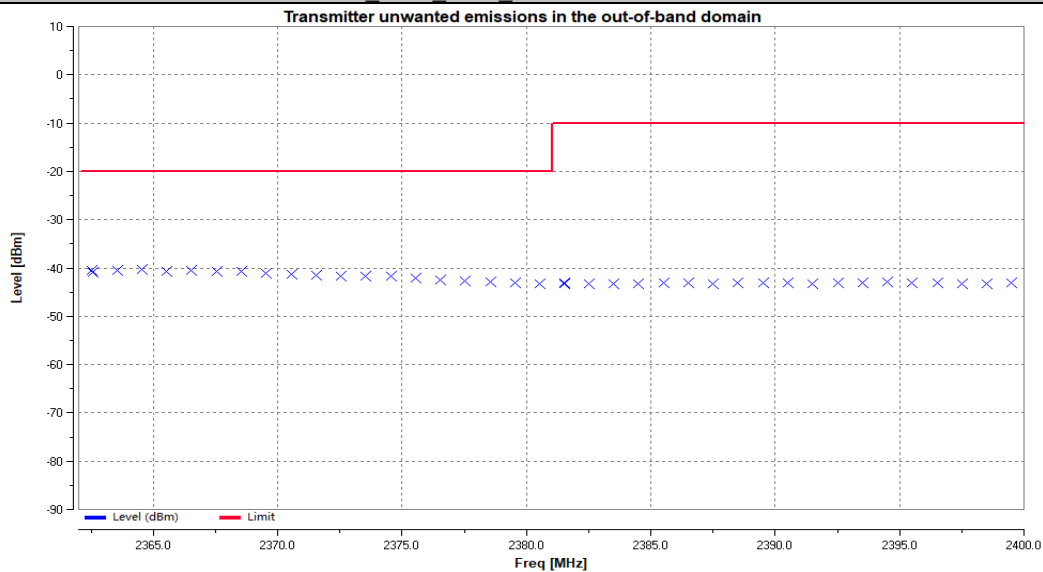
11AX20SISO Ant1 2412 2400MHz-2BW to 2400MHz



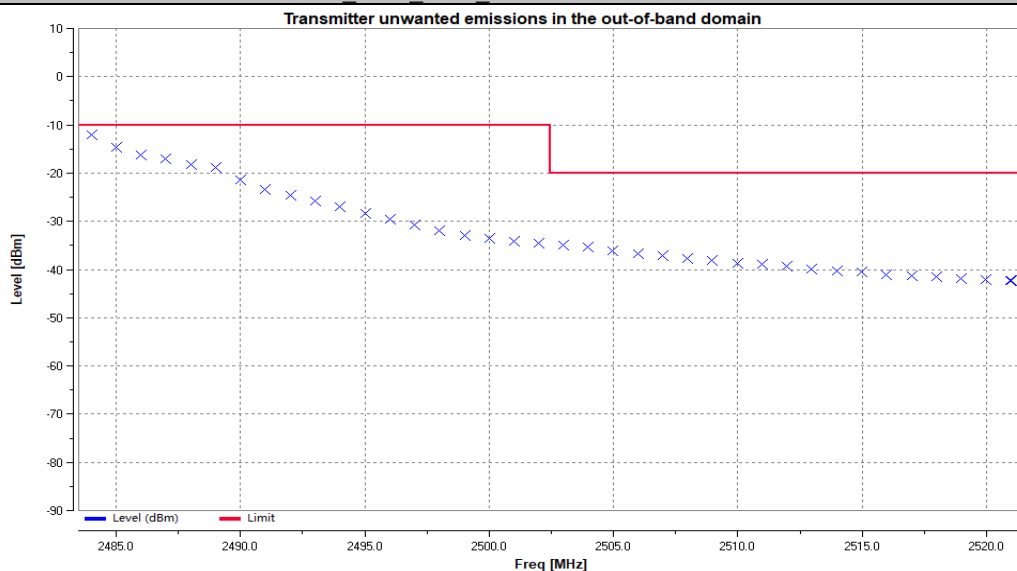
11AX20SISO Ant1 2412 2483.5MHz to 2483.5MHz+2BW



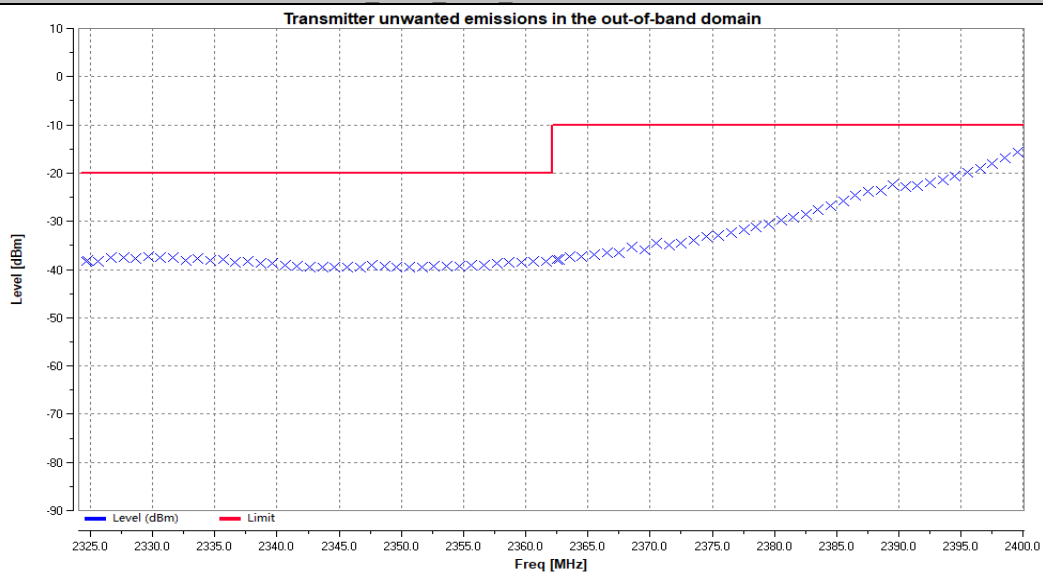
11AX20SISO Ant1 2472 2400MHz-2BW to 2400MHz



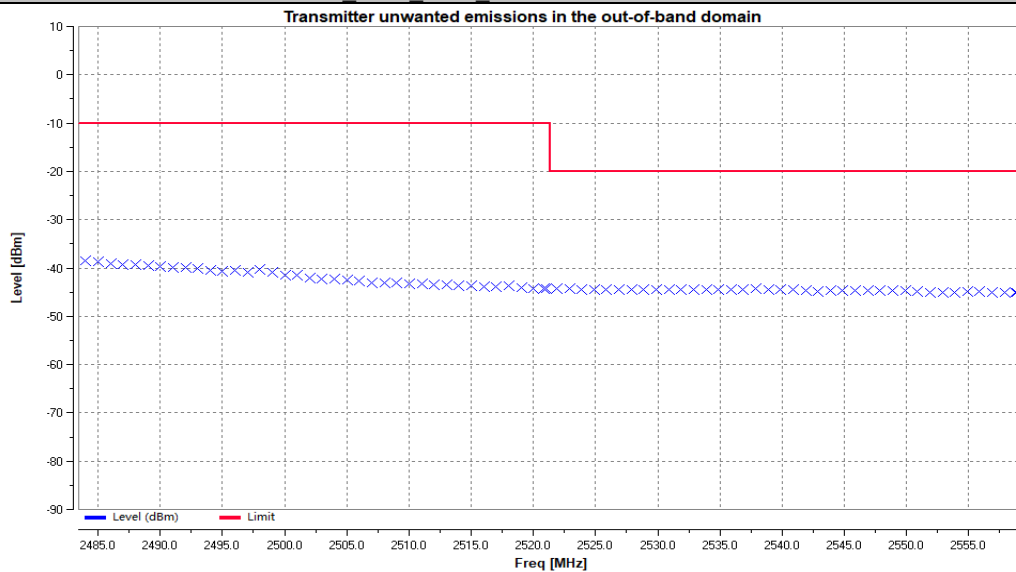
11AX20SISO Ant1 2472 2483.5MHz to 2483.5MHz+2BW



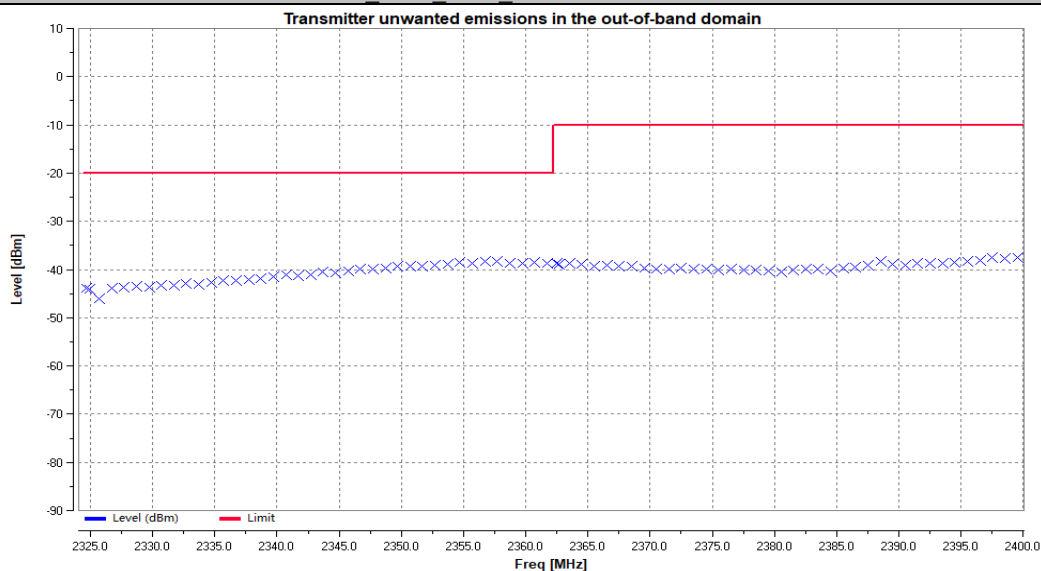
11AX40SISO Ant1 2422 2400MHz-2BW to 2400MHz



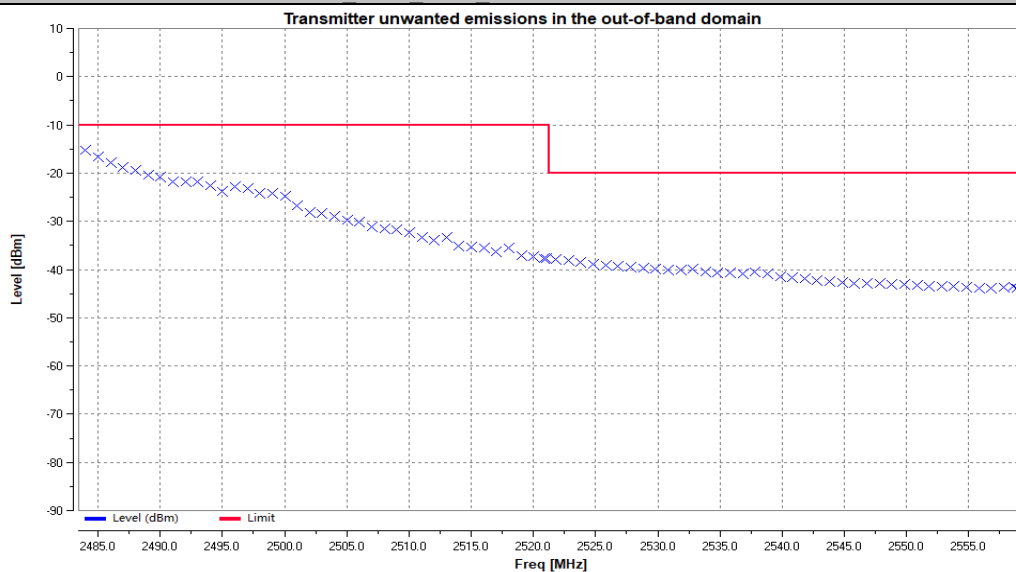
11AX40SISO Ant1 2422 2483.5MHz to 2483.5MHz+2BW



11AX40SISO Ant1 2462 2400MHz-2BW to 2400MHz



11AX40SISO Ant1 2462 2483.5MHz to 2483.5MHz+2BW



DECLARATION OF SIMILARITY LETTER

SHENZHEN TENDA TECHNOLOGY CO.,LTD.

Add: 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China.
518052

Tel: 86-755-27657098

Fax: 86-755-27657178

E-mail: cert@tenda.cn

DECLARATION OF SIMILARITY

Date: 2025-04-28

To whom it may concern

Dear Sir or Madam:

We, SHENZHEN TENDA TECHNOLOGY CO.,LTD., hereby declare that the product: 3MP Security Pan/Tilt Camera, model: RP3 is electrically identical with the model: CP3 which was tested by Bay Area Compliance Laboratories Corp. (Dongguan).

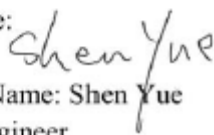
A description of the differences between those models and that are declared similar are as follows:

They are the same product, and just the different model name, the rest are the same.

Please contact me should there be need for any additional clarification or information.

Best Regards,

Signature:



Printed Name: Shen Yue

Title: Engineer

*****END OF REPORT*****