REPORT No.: SZ24040140W02

TEST REPORT

APPLICANT	:	YINUOLINK CO.,LTD
PRODUCT NAME	:	AC1200 Wi-Fi Nano Router
MODEL NAME	:	Y7
BRAND NAME	:	YINUO-LINK
FCC ID	:	2A66J-Y7
STANDARD(S)	:	47 CFR Part 15 Subpart E
RECEIPT DATE	:	2024-04-11
TEST DATE	:	2024-04-19 to 2024-08-29
ISSUE DATE	:	2024-11-25

Edited by: Zeng Xiaoying (Rapporteur)

Approved by: Shen Junsheng (Supervisor)

MORLAB

Shenzhen Morlab Communications Technology Co., Ltd.
FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road,
Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China

Tel: 86-755-36698555 Fax: 86-755-36698525
Http://www.morlab.cn E-mail: service@morlab.cn

DIRECTORY

Change History		
Version	**Date**	**Reason for change**
1.0	2024-11-25	First edition

1. Summary of Test Result

No.	Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
1	15.203	Antenna Requirement	N/A	N/A	PASS	No deviation
2	ANSI C63.10	Duty Cycle of the Test Signal	Apr. 28, 2024	Su Xiaoxian	PASS	No deviation
3	15.407(a)	Maximum Conducted Output Power	Apr. 28, 2024	Su Xiaoxian	PASS	No deviation
4	15.407(a) (e)	Emission Bandwidth	Apr. 29, 2024	Su Xiaoxian	PASS	No deviation
5	15.407(a)	Peak Power Spectral Density	Apr. 29, 2024	Su Xiaoxian	PASS	No deviation
6	15.407(g)	Frequency Stability	Aug. 28, 2024	Su Xiaoxian	PASS	No deviation
7	15.207	Conducted Emission	May 20, 2024	Wang Deyong	PASS	No deviation
8	15.407(b)	Restricted Frequency Bands	May 11, 2024 Aug. 21, 2024	Gao Jianrou	PASS	No deviation
9	15.407(b)	Radiated Emission	May 11, 2024	Gao Jianrou	PASS	No deviation

Note 1: The tests of Conducted Emission and Radiated Emission were performed according to the method of measurements prescribed in ANSI C63.10 2013.

Note 2: These RF tests were performed according to the method of measurements prescribed in KDB 789033 D02 v02r01.

Note 3: These RF tests were performed according to the method of measurements prescribed in KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02.

Note 4: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

Note 5: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.

1.1. Testing Applied Standards

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

• 47 CFR Part 15 Subpart E Radio Frequency Devices

1.2. Test Equipment List

1.2.1 Conducted Test Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
EXA Signal Analyzer	MY53470836	N9010A	Agilent	2024.02.19	2025.02.18
Power Sensor	MY54180008	U2021XA	Agilent	2023.10.17	2024.10.16
Temperature Chamber	12108015	DTL-003S101	YOMA	2023.09.19	2024.09.18
RF Cable (30MHz-26GHz)	CB01	RF01	Morlab	N/A	N/A
Coaxial Cable	CB02	RF02	Morlab	N/A	N/A
SMA Connector	CN01	RF03	HUBER-SUHNER	N/A	N/A
Attenuator	MTJ6004-10	10dB	MTJ cooperation	N/A	N/A

1.2.2 Conducted Emission Test Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	MY56400093	N9038A	KEYSIGHT	2024.01.25	2025.01.24
LISN	8127449	NSLK 8127	Schwarzbeck	2024.02.02	2025.02.01
Pulse Limiter (10dB)	VTSD 9561 F-B #206	VTSD 9561-F	Schwarzbeck	2023.06.27	2024.06.26
				2024.05.30	2025.05.29
RF Coaxial Cable (DC-100MHz)	BNC	MRE04	Qualwave	N/A	N/A

1.2.3 List of Software Used

Description	Manufacturer	Software Version
Test System	MaiWei	2.0.0.0
Morlab EMCR	Morlab	V1.2
TS+ -[JS32-CE]	Tonscend	V2.5.0.0

1.2.4 Radiated Test Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Signal Analyzer	MY56060145	N9020A	Agilent	2023.06.21	2024.06.20
				2024.05.30	2025.05.29
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2023.07.01	2024.06.30
				2024.06.22	2025.06.21
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2023.06.26	2024.06.25
				2024.06.03	2025.06.02
Test Antenna – Horn	01774	BBHA 9120D	Schwarzbeck	2023.07.01	2024.06.30
				2024.06.22	2025.06.21
Test Antenna – Horn	BBHA9170 #773	BBHA9170	Schwarzbeck	2023.07.01	2024.06.30
				2024.06.22	2025.06.21
Preamplifier (10MHz-6GHz)	46732	S10M100L3802	LUCIX CORP.	2023.06.27	2024.06.26
				2024.05.30	2025.05.29
Preamplifier (2GHz-18GHz)	61171/61172	S020180L3203	LUCIX CORP.	2023.06.27	2024.06.26
				2024.05.30	2025.05.29
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2023.07.04	2024.07.03
				2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2023.06.27	2024.06.26
				2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2023.06.27	2024.06.26
				2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2023.06.27	2024.06.26
				2024.05.30	2025.05.29
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-KK-0.5	Qualwave	2023.07.04	2024.07.03
				2024.07.03	2025.07.02
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-KKF-2	Qualwave	2023.07.04	2024.07.03
				2024.07.03	2025.07.02
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-NN-5	Qualwave	2023.07.04	2024.07.03
				2024.07.03	2025.07.02
Notch Filter	N/A	WRCG-2400-2483.5-60SS	Wainwright	N/A	N/A
Anechoic Chamber	N/A	9m*6m*6m	CRT	2022.05.10	2025.05.09

1.3. Measurement Uncertainty

Test Items	Uncertainty	Remark
Peak Output Power	±2.22dB	Confidence levels of 95%
Power Spectral Density	±2.22dB	Confidence levels of 95%
Bandwidth	±5%	Confidence levels of 95%
Restricted Frequency Bands	±5%	Confidence levels of 95%
Radiated Emission	±2.95dB	Confidence levels of 95%
Conducted Emission	±2.44dB	Confidence levels of 95%

1.4. Testing Laboratory

Laboratory Name	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Telephone	+86 755 36698555
Facsimile	+86 755 36698525
FCC Designation Number	CN1192
FCC Test Firm Registration Number	226174

2. General Description

2.1. Information of Applicant and Manufacturer

Applicant	YINUOLINK CO.,LTD
Applicant Address	301,Bldg 6, Gaoxinjian Industrial Park, Fuyuan 1st Road, Heping, Fuhai, Bao'an, Shenzhen, China
Manufacturer	YINUOLINK CO.,LTD
Manufacturer Address	301,Bldg 6, Gaoxinjian Industrial Park, Fuyuan 1st Road, Heping, Fuhai, Bao'an, Shenzhen, China

2.2. Information of EUT

Product Name:	AC1200 Wi-Fi Nano Router
Sample No.:	1#, 2#
Hardware Version:	1.1
Software Version:	Y7EN301024CV1.02
Modulation Technology:	OFDM
Modulation Mode:	802.11a, 802.11n (HT20), 802.11n (HT40) 802.11ac (VHT20), 802.11ac (VHT40), 802.11ac (VHT80)
Operating Frequency Range:	5180MHz-5240MHz; 5745MHz-5825MHz
Antenna Type:	ANT1: PCB Antenna; ANT2: FPC Antenna
Antenna Gain:	ANT1: 3.12dBi; ANT2: 4.72dBi
Directional Gain:	6.97dBi Note 2

Note 1: The EUT supports a MIMO function. Physically, the EUT provides two completed transmitters and two receivers for 802.11n, 802.11ac modulation mode.

Modulation Mode:	**TX Function**
802.11a	1TX
802.11n	2TX
802.11ac	2TX

Note 2: According to KDB 662911 D01, the directional gain = $10\log[(10^{G0/20}+10^{G1/20})^2/2$

Note 3: All radiation test items for 802.11n, 802.11ac modulation mode operate at MIMO mode during the test. Other modulation mode operate at SISO mode, both of the two antennas were tested separately, we only recorded the worst test result(ANT 2) in this report.

Note 4: We use the dedicated software to control the EUT continuous transmission.

Note 5: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

2.3. Channel List of EUT

(U-NII-1) 5180MHz-5240MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	**36**	**5180**	40	5200
	44	**5220**	**48**	**5240**
40MHz	**38**	**5190**	**46**	**5230**
80MHz	**42**	**5210**		
(U-NII-3) 5745MHz-5825MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	**149**	**5745**	153	5765
	157	**5785**	161	5805
	165	**5825**		
40MHz	**151**	**5755**	**159**	**5795**
80MHz	**155**	**5775**		

Note 1: The black bold channels were selected for test.

2.4. Test Configuration of EUT

2.4.1.Modulation Type and Data Rate of EUT

Mode	Bandwidth (MHz)	Modulation Technology	Modulation Type	Data Rate	RU Size
802.11a	20	OFDM	**BPSK**	**6**/9/12/18/24/36/48/54 Mbps	N/A
			QPSK		
			16QAM		
			64QAM		
802.11n	20/40 (HT20/40)	OFDM	**BPSK**	**MCS0**~MCS7	N/A
			QPSK		
			16QAM		
			64QAM		
802.11ac	20/40/80 (VHT20/40/80)	OFDM	**BPSK**	**MSC0**~MCS9	N/A
			QPSK		
			16QAM		
			64QAM		
			256QAM		

Note1: The worst-case mode (bold face) in all data rates has been determined during the pre-scan, only the test data of the worst-case were recorded in this report.

2.4.2.Operation and Transmitter Power Level Setting

The EUT was tested while in a continues transmitter/receiver mode under the control of tool which is provided by manufacturer, all the items of transmitter were tested under the power setting as below:

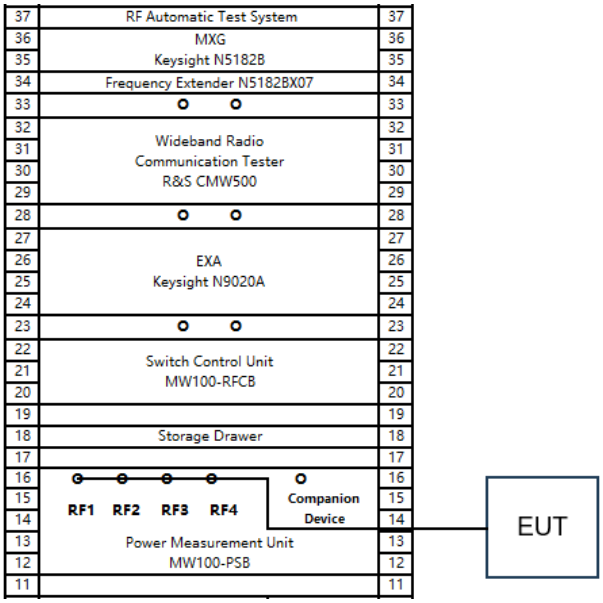
Modulation Technology	Power Setting					
	SISO				MIMO	
	ANT1		ANT2			
	U-NII-1	U-NII-3	U-NII-1	U-NII-3	U-NII-1	U-NII-3
802.11a	1F	24	1E	1A	/	/
802.11n20	26	28	20	1D	20	1D
802.11n40	27	27	21	1C	1F	1C
802.11ac20	26	28	20	1D	20	1D
802.11ac40	25	25	20	19	20	19
802.11ac80	25	25	1F	19	1F	19

2.5. Test Conditions

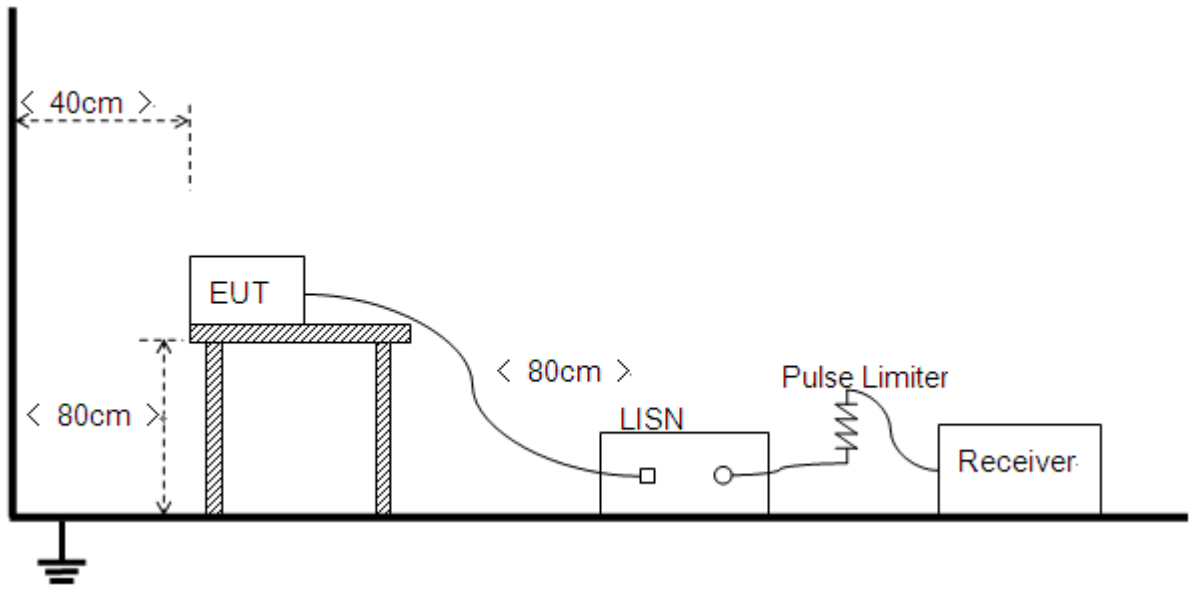
Temperature (°C)	15-35
Relative Humidity (%)	30-60
Atmospheric Pressure (kPa)	86-106

2.6. Test Setup Layout Diagram

2.6.1.Conducted Measurement

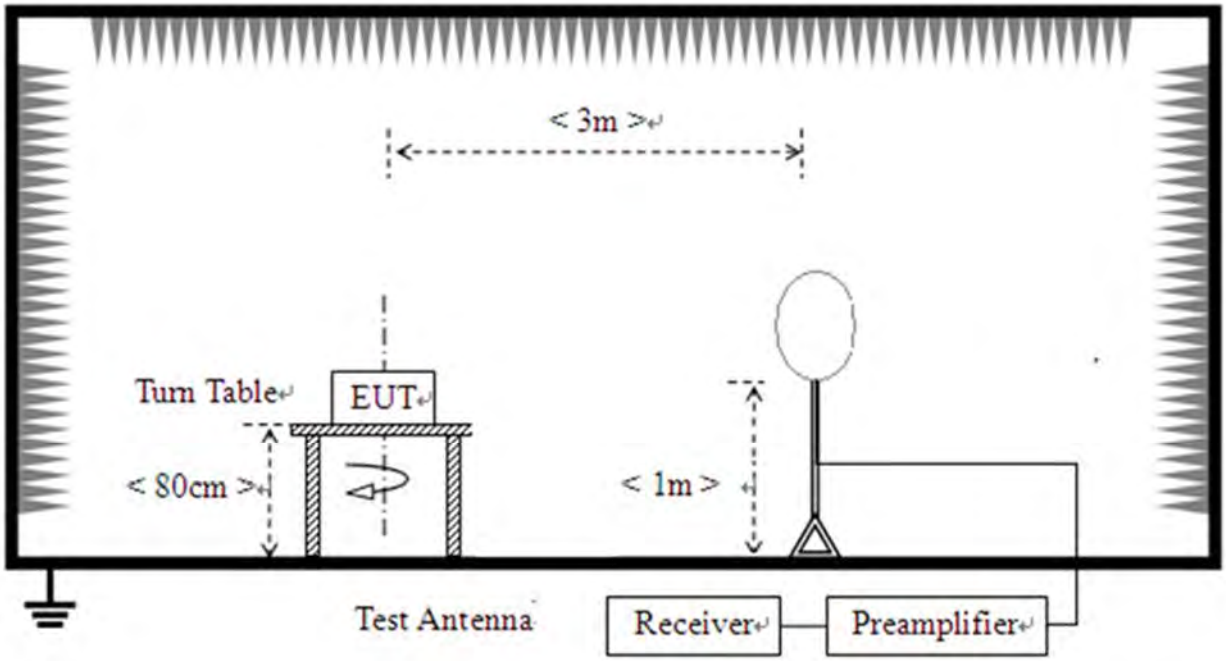


2.6.2.Conducted Emission Measurement

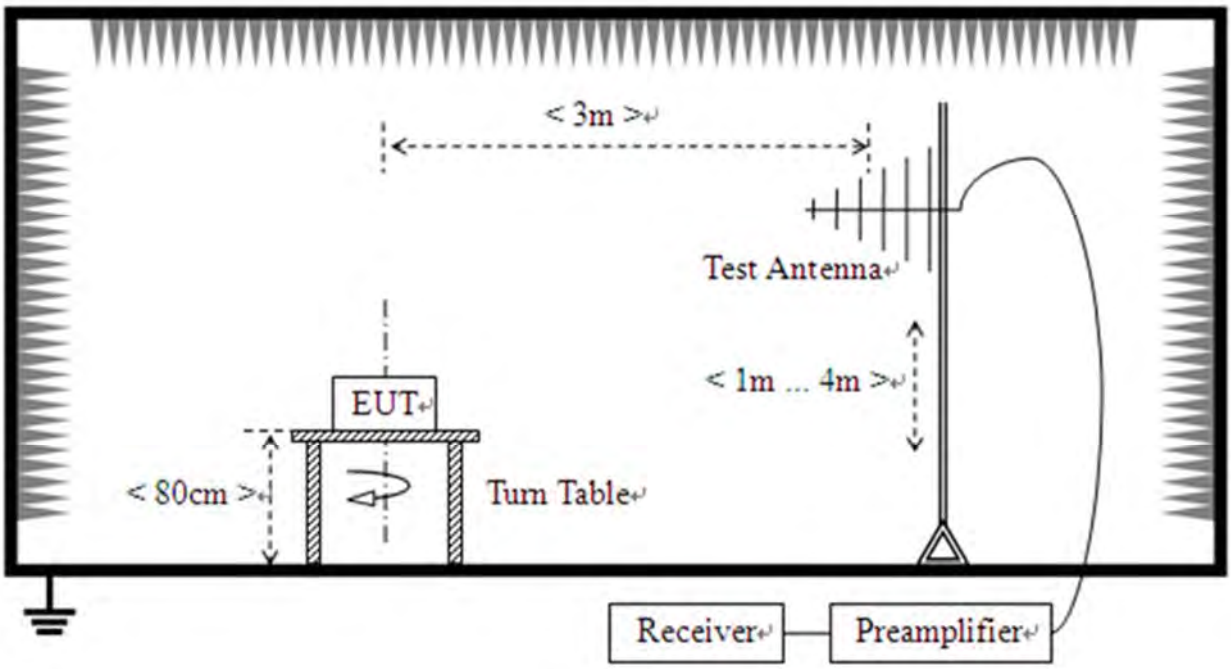


2.6.3.Radiation Measurement

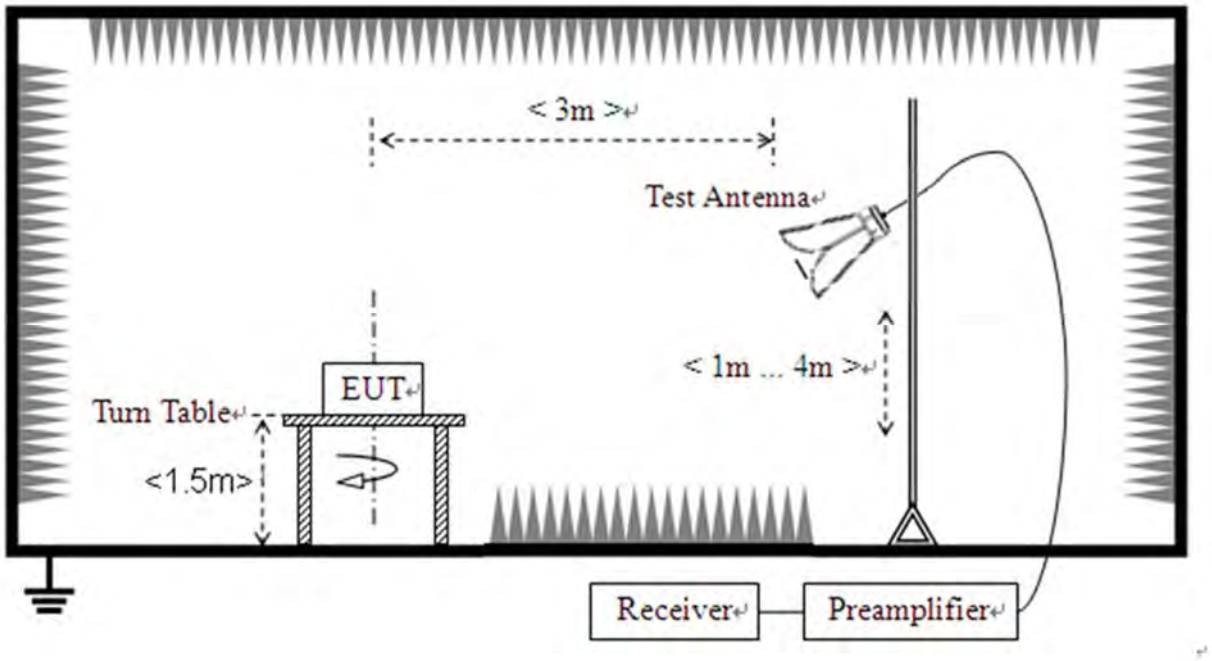
1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to 1GHz



3) For radiated emissions above 1GHz



3. Test Results

3.1. Antenna Requirement

3.1.1.Requirement

According to FCC 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

3.1.2.Test Result

Antenna location	Antenna Type	Coupling Method
☒Internal ☐External	☒FPC Antenna ☐Spring Antenna ☐Ceramic Antenna ☐Integrated Antenna ☐Dipole Antenna ☒PCB Antenna ☐PIFA Antenna	☐I-PEX Connector ☐SMA Connector ☐RP-SMA Connector ☒Metal Shrapnel ☒Layout

3.2. Duty Cycle of Test Signal

3.2.1.Requirement

Preferably, all measurements of maximum conducted (average) output power will be performed with the EUT transmitting continuously (i.e., with a duty cycle of greater than or equal to 98%).When continuous operation cannot be realized, then the use of sweep triggering/signal gating techniques can be used to ensure that measurements are made only during transmissions at the maximum power control level. Such sweep triggering/signal gating techniques will require knowledge of the minimum transmission duration(T) over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Sweep triggering/signal gating techniques can then be used if the measurement/sweep time of the analyzer can be set such that it does not exceed T at any time that data are being acquired (i.e.,no transmitter OFF-time is to be considered).
When continuous transmission cannot be achieved and sweep triggering/signal gating cannot be implemented, alternative procedures are provided that can be used to measure the average power; however, they will require an additional measurement of the transmitter duty cycle (D). Within this sub clause, the duty cycle refers to the fraction of time over which the transmitter is ON and is transmitting at its maximum power control level. The duty cycle is considered to be constant if variations are less than ±2%; otherwise, the duty cycle is considered to be non constant.

3.2.2.Test Result

Refer to Annex A.1 in this report.

3.3. Maximum Conducted Output Power

3.3.1.Requirement

(1) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250mW provided the maximum antenna gain does not exceed 6dBi.
(2)For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250mW or 11dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz.
(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.
If transmitting antennas of directional gain greater than 6dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.
(4) According to KDB662911D01Measure-and-sum technique, the conducted emission level (e.g., transmit power or power in specified bandwidth) is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically to determine the total emission level from the device. Summing is performed in units that are directly proportional to power.
(5) According to KDB 662911 D01, the directional gain = G_{ANT} +10log(N_{ANT})dBi, where G_{ANT} is the antenna gain in dBi, N_{ANT} is the number of outputs.

3.3.2.Test Procedures

Based on method PM-G in Section Ⅱ.E.3.b) of KDB 789033 D02.

3.3.3.Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.3.4.Test Result

Refer to Annex A.2 in this report.

3.4. Emission Bandwidth

3.4.1.Requirement

For purposes of this subpart the emission bandwidth shall be determined by measuring the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, that are 26 dB down relative to the maximum level of the modulated carrier. Determination of the emissions bandwidth is based on the use of measurement instrumentation employing a peak detector function with an instrument resolution bandwidth approximately equal to 1.0 percent of the emission bandwidth of the device under measurement. Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

3.4.1.Test Procedures

1. KDB 789033 Section C) 1) Emission Bandwidth was used in order to prove compliance
a) Set RBW = approximately 1% of the emission bandwidth.
b) Set VBW > RBW.
c) Detector = Peak.
d) Trace mode = max hold.
e) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
2. KDB 789033 Section C) 2) minimum emission bandwidth for the band 5.725-5.85GHz was used in order to prove compliance.
Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for theband5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:
a) Set RBW = 100 kHz.
b) Set video bandwidth (VBW) ≥ 3 × RBW.
c) Detector = Peak.
d) Trace mode = max hold.
e) Sweep = auto couple.
f) Allow the trace to stabilize.
g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.4.2.Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.4.3.Test Result

Refer to Annex A.3 in this report.

3.5. Peak Power Spectral Density

3.5.1.Requirement

(1) For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band.
(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band.
(3) For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30dBm in any 500kHz band.
If transmitting antennas of directional gain greater than 6dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.
(4) According to KDB662911D01Measure-and-sum technique, the conducted emission level (e.g., transmit power or power in specified bandwidth) is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically to determine the total emission level from the device. Summing is performed in units that are directly proportional to power.
(5) According to KDB 662911 D01, the directional gain = G_{ANT} +10log(N_{ANT}) dBi, where G_{ANT} is the antenna gain in dBi, N_{ANT} is the number of outputs.

3.5.2.Test Procedures

KDB 789033 Section F) Maximum Power Spectral Density (PSD) Method SA-3 was used in order to prove compliance
1) Set span to encompass the entire 26-dB emission bandwidth
2) Set RBW = 1MHz. Set VBW ≥ 3MHz
3) Number of points in sweep ≥ 2 Span / RBW. Sweep time = auto
4) Detector = Average
5) Trace mode=Max hold
Record the max value

3.5.3.Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.5.4.Test Result

Refer to Annex A.4 in this report.

3.6. Frequency Stability

3.6.1. Requirement

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

3.6.2. Test Procedures

The EUT was placed inside of an environmental chamber as the temperature in the chamber was varied between 5°Cto 40°C. The temperature was incremented by 10º intervals and the unit was allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded. Data for the worst case channel is shown below.

3.6.3. Test Result

Refer to Annex A.5 in this report.

3.7. Conducted Emission

3.7.1.Requirement

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50μH/50Ω line impedance stabilization network (LISN).

Frequency Range (MHz)	Conducted Limit (dBμV)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

Note:

(a) The lower limit shall apply at the band edges.

(b) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

3.7.2.Test Procedures

The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.10: 2013.

3.7.3.Test Setup Layout

Refer to chapter 2.6.2 in this report.

3.7.4.Test Result

Refer to Annex A.6 in this report.

3.8. Restricted Frequency Bands

3.8.1.Requirement

The peak emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:
(1) For transmitters operating in the 5.15–5.25 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.
(2) For transmitters operating in the 5.25–5.35 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.
(3) For transmitters operating in the 5.47–5.725 GHz band: all emissions outside of the 5.47–5.725 GHz band shall not exceed an EIRP of -27dBm/MHz.
(4) For transmitters operating in the 5.725-5.85 GHz band:
(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
The following formula is used to convert the equipment isotropic radiated power(e.i.r.p.) to field strength (dBμV/m);

$$E = 1000000 \times \sqrt{30P} / 3 \ \mu V/m$$

where P is the EIRP in Watts

Therefore: -27 dBm/MHz = 68.23 dBuV/m

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table).

3.8.2.Test Procedures

The EUT is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.
KDB 789033 Section H) 3)5)6(d)) was used in order to prove compliance
For the Test Antenna:
Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength.

3.8.3.Test Setup Layout

Refer to chapter 2.6.3 in this report.

3.8.4.Test Result

Refer to Annex A.7 in this report.

3.9. Radiated Emission

3.9.1.Requirement

The peak emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:
(1) For transmitters operating in the 5.15–5.25 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.
(2) For transmitters operating in the 5.25–5.35 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.
(3) For transmitters operating in the 5.47–5.725 GHz band: all emissions outside of the 5.47–5.725 GHz band shall not exceed an EIRP of -27dBm/MHz.
(4) For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.
The following formula is used to convert the equipment isotropic radiated power(e.i.r.p.) to field strength (dBμV/m);

$$E = 1000000 \times \sqrt{30P} / 3 \ \mu V/m$$

where P is the EIRP in Watts

Therefore: -27 dBm/MHz = 68.23 dBuV/m

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table).

3.9.2.Test Procedures

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz.The antenna to EUT distance is 3meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 30MHz, the emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9kHz-90 kHz, 110kHz-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

For measurements below 1GHz the resolution bandwidth is set to 100kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video band width is set to 3MHz for peak measurements and as applicable for average measurements.

The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions. For measurements above 1 GHz, keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.

3.9.3.Test Setup Layout

Refer to chapter 2.6.3 in this report.

3.9.4.Test Result

Refer to Annex A.8 in this report.

Annex A Test Data and Result

A.1. Duty Cycle of Test Signal

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a SISO	5180	Ant1	95.21	0.21	0.72
NVNT	a SISO	5220	Ant1	95.86	0.18	0.72
NVNT	a SISO	5240	Ant1	95.86	0.18	0.72
NVNT	a SISO	5745	Ant1	95.89	0.18	0.71
NVNT	a SISO	5785	Ant1	95.21	0.21	0.72
NVNT	a SISO	5825	Ant1	95.86	0.18	0.72
NVNT	a SISO	5180	Ant2	95.89	0.18	0.71
NVNT	a SISO	5220	Ant2	95.89	0.18	0.71
NVNT	a SISO	5240	Ant2	95.86	0.18	0.72
NVNT	a SISO	5745	Ant2	95.86	0.18	0.72
NVNT	a SISO	5785	Ant2	95.89	0.18	0.71
NVNT	a SISO	5825	Ant2	95.86	0.18	0.72
NVNT	n20 SISO	5180	Ant1	95.62	0.19	0.76
NVNT	n20 SISO	5220	Ant1	95.62	0.19	0.76
NVNT	n20 SISO	5240	Ant1	95.62	0.19	0.76
NVNT	n20 SISO	5745	Ant1	94.89	0.23	0.77
NVNT	n20 SISO	5785	Ant1	95.62	0.19	0.76
NVNT	n20 SISO	5825	Ant1	95.62	0.19	0.76
NVNT	n20 SISO	5180	Ant2	95.62	0.19	0.76
NVNT	n20 SISO	5220	Ant2	95.62	0.19	0.76
NVNT	n20 SISO	5240	Ant2	95.62	0.19	0.76
NVNT	n20 SISO	5745	Ant2	94.89	0.23	0.77
NVNT	n20 SISO	5785	Ant2	95.62	0.19	0.76
NVNT	n20 SISO	5825	Ant2	95.62	0.19	0.76
NVNT	n20 MIMO	5180	Sum	95.86	0.18	0.72
NVNT	n20 MIMO	5220	Sum	95.89	0.18	0.71
NVNT	n20 MIMO	5240	Sum	95.62	0.19	0.76
NVNT	n20 MIMO	5745	Sum	95.62	0.19	0.76
NVNT	n20 MIMO	5785	Sum	95.62	0.19	0.76
NVNT	n20 MIMO	5825	Sum	95.59	0.2	0.77
NVNT	n40 SISO	5190	Ant1	91.43	0.39	1.56
NVNT	n40 SISO	5230	Ant1	91.55	0.38	1.54

NVNT	n40 SISO	5755	Ant1	91.55	0.38	1.54
NVNT	n40 SISO	5795	Ant1	91.55	0.38	1.54
NVNT	n40 SISO	5190	Ant2	91.55	0.38	1.54
NVNT	n40 SISO	5230	Ant2	91.55	0.38	1.54
NVNT	n40 SISO	5755	Ant2	91.55	0.38	1.54
NVNT	n40 SISO	5795	Ant2	91.55	0.38	1.54
NVNT	n40 MIMO	5190	Sum	91.55	0.38	1.54
NVNT	n40 MIMO	5230	Sum	91.55	0.38	1.54
NVNT	n40 MIMO	5755	Sum	91.55	0.38	1.54
NVNT	n40 MIMO	5795	Sum	91.55	0.38	1.54
NVNT	ac20 SISO	5180	Ant1	92	0.36	1.45
NVNT	ac20 SISO	5220	Ant1	91.89	0.37	1.47
NVNT	ac20 SISO	5240	Ant1	92	0.36	1.45
NVNT	ac20 SISO	5745	Ant1	91.89	0.37	1.47
NVNT	ac20 SISO	5785	Ant1	91.89	0.37	1.47
NVNT	ac20 SISO	5825	Ant1	92	0.36	1.45
NVNT	ac20 SISO	5180	Ant2	91.89	0.37	1.47
NVNT	ac20 SISO	5220	Ant2	91.89	0.37	1.47
NVNT	ac20 SISO	5240	Ant2	91.89	0.37	1.47
NVNT	ac20 SISO	5745	Ant2	91.89	0.37	1.47
NVNT	ac20 SISO	5785	Ant2	91.89	0.37	1.47
NVNT	ac20 SISO	5825	Ant2	91.89	0.37	1.47
NVNT	ac20 MIMO	5180	Sum	91.89	0.37	1.47
NVNT	ac20 MIMO	5220	Sum	91.89	0.37	1.47
NVNT	ac20 MIMO	5240	Sum	92	0.36	1.45
NVNT	ac20 MIMO	5745	Sum	91.89	0.37	1.47
NVNT	ac20 MIMO	5785	Sum	91.89	0.37	1.47
NVNT	ac20 MIMO	5825	Sum	92	0.36	1.45
NVNT	ac40 SISO	5190	Ant1	85.71	0.67	2.78
NVNT	ac40 SISO	5230	Ant1	85.37	0.69	2.86
NVNT	ac40 SISO	5755	Ant1	85.71	0.67	2.78
NVNT	ac40 SISO	5795	Ant1	85.37	0.69	2.86
NVNT	ac40 SISO	5190	Ant2	85.37	0.69	2.86
NVNT	ac40 SISO	5230	Ant2	85.37	0.69	2.86
NVNT	ac40 SISO	5755	Ant2	85.37	0.69	2.86
NVNT	ac40 SISO	5795	Ant2	85.37	0.69	2.86
NVNT	ac40 MIMO	5190	Sum	85.37	0.69	2.86
NVNT	ac40 MIMO	5230	Sum	85.37	0.69	2.86

NVNT	ac40 MIMO	5755	Sum	85.37	0.69	2.86
NVNT	ac40 MIMO	5795	Sum	85.37	0.69	2.86
NVNT	ac80 SISO	5210	Ant1	76	1.19	5.26
NVNT	ac80 SISO	5775	Ant1	76	1.19	5.26
NVNT	ac80 SISO	5210	Ant2	75	1.25	5.56
NVNT	ac80 SISO	5775	Ant2	76	1.19	5.26
NVNT	ac80 MIMO	5210	Sum	76	1.19	5.26
NVNT	ac80 MIMO	5775	Sum	75	1.25	5.56

A.2. Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted (dBm)	Verdict
NVNT	a SISO	5180	Ant1	13.83	0.02415	30	Pass
NVNT	a SISO	5220	Ant1	14.18	0.02618	30	Pass
NVNT	a SISO	5240	Ant1	13.99	0.02506	30	Pass
NVNT	a SISO	5745	Ant1	16.59	0.0456	30	Pass
NVNT	a SISO	5785	Ant1	16.03	0.04009	30	Pass
NVNT	a SISO	5825	Ant1	16.01	0.0399	30	Pass
NVNT	a SISO	5180	Ant2	16.07	0.04046	30	Pass
NVNT	a SISO	5220	Ant2	16.35	0.04315	30	Pass
NVNT	a SISO	5240	Ant2	16.38	0.04345	30	Pass
NVNT	a SISO	5745	Ant2	16.6	0.04571	30	Pass
NVNT	a SISO	5785	Ant2	16.45	0.04416	30	Pass
NVNT	a SISO	5825	Ant2	16.58	0.0455	30	Pass
NVNT	n20 SISO	5180	Ant1	15.54	0.03581	30	Pass
NVNT	n20 SISO	5220	Ant1	15.93	0.03917	30	Pass
NVNT	n20 SISO	5240	Ant1	15.78	0.03784	30	Pass
NVNT	n20 SISO	5745	Ant1	16.64	0.04613	30	Pass
NVNT	n20 SISO	5785	Ant1	15.91	0.03899	30	Pass
NVNT	n20 SISO	5825	Ant1	15.72	0.03733	30	Pass
NVNT	n20 SISO	5180	Ant2	15.97	0.03954	30	Pass
NVNT	n20 SISO	5220	Ant2	16.25	0.04217	30	Pass
NVNT	n20 SISO	5240	Ant2	16.37	0.04335	30	Pass
NVNT	n20 SISO	5745	Ant2	16.85	0.04842	30	Pass
NVNT	n20 SISO	5785	Ant2	16.84	0.04831	30	Pass
NVNT	n20 SISO	5825	Ant2	16.88	0.04875	30	Pass
NVNT	n20 MIMO	5180	Ant1	13.22	0.02099	30	Pass
NVNT	n20 MIMO	5180	Ant2	16.14	0.04111	30	Pass
NVNT	n20 MIMO	5180	Sum	17.93	0.0621	29.03	Pass
NVNT	n20 MIMO	5220	Ant1	13.55	0.02265	30	Pass
NVNT	n20 MIMO	5220	Ant2	16.63	0.04603	30	Pass
NVNT	n20 MIMO	5220	Sum	18.37	0.06867	29.03	Pass
NVNT	n20 MIMO	5240	Ant1	13.39	0.02183	30	Pass
NVNT	n20 MIMO	5240	Ant2	16.33	0.04295	30	Pass
NVNT	n20 MIMO	5240	Sum	18.11	0.06478	29.03	Pass

NVNT	n20 MIMO	5745	Ant1	11.66	0.01466	30	Pass
NVNT	n20 MIMO	5745	Ant2	16.92	0.0492	30	Pass
NVNT	n20 MIMO	5745	Sum	18.05	0.06386	29.03	Pass
NVNT	n20 MIMO	5785	Ant1	11.16	0.01306	30	Pass
NVNT	n20 MIMO	5785	Ant2	16.88	0.04875	30	Pass
NVNT	n20 MIMO	5785	Sum	17.91	0.06181	29.03	Pass
NVNT	n20 MIMO	5825	Ant1	11.06	0.01276	30	Pass
NVNT	n20 MIMO	5825	Ant2	17.03	0.05047	30	Pass
NVNT	n20 MIMO	5825	Sum	18.01	0.06323	29.03	Pass
NVNT	n40 SISO	5190	Ant1	16.05	0.04027	30	Pass
NVNT	n40 SISO	5230	Ant1	16.56	0.04529	30	Pass
NVNT	n40 SISO	5755	Ant1	16.71	0.04688	30	Pass
NVNT	n40 SISO	5795	Ant1	16.1	0.04074	30	Pass
NVNT	n40 SISO	5190	Ant2	16.04	0.04018	30	Pass
NVNT	n40 SISO	5230	Ant2	16.87	0.04864	30	Pass
NVNT	n40 SISO	5755	Ant2	16.7	0.04677	30	Pass
NVNT	n40 SISO	5795	Ant2	16.61	0.04581	30	Pass
NVNT	n40 MIMO	5190	Ant1	12.75	0.01884	30	Pass
NVNT	n40 MIMO	5190	Ant2	15.2	0.03311	30	Pass
NVNT	n40 MIMO	5190	Sum	17.16	0.05195	29.03	Pass
NVNT	n40 MIMO	5230	Ant1	13.14	0.02061	30	Pass
NVNT	n40 MIMO	5230	Ant2	15.83	0.03828	30	Pass
NVNT	n40 MIMO	5230	Sum	17.7	0.05889	29.03	Pass
NVNT	n40 MIMO	5755	Ant1	11.39	0.01377	30	Pass
NVNT	n40 MIMO	5755	Ant2	16.88	0.04875	30	Pass
NVNT	n40 MIMO	5755	Sum	17.96	0.06252	29.03	Pass
NVNT	n40 MIMO	5795	Ant1	10.91	0.01233	30	Pass
NVNT	n40 MIMO	5795	Ant2	16.79	0.04775	30	Pass
NVNT	n40 MIMO	5795	Sum	17.79	0.06008	29.03	Pass
NVNT	ac20 SISO	5180	Ant1	15.67	0.0369	30	Pass
NVNT	ac20 SISO	5220	Ant1	15.97	0.03954	30	Pass
NVNT	ac20 SISO	5240	Ant1	15.94	0.03926	30	Pass
NVNT	ac20 SISO	5745	Ant1	16.75	0.04732	30	Pass
NVNT	ac20 SISO	5785	Ant1	16.07	0.04046	30	Pass
NVNT	ac20 SISO	5825	Ant1	16.06	0.04036	30	Pass
NVNT	ac20 SISO	5180	Ant2	15.74	0.0375	30	Pass
NVNT	ac20 SISO	5220	Ant2	16.32	0.04285	30	Pass
NVNT	ac20 SISO	5240	Ant2	16.34	0.04305	30	Pass

NVNT	ac20 SISO	5745	Ant2	16.91	0.04909	30	Pass
NVNT	ac20 SISO	5785	Ant2	16.87	0.04864	30	Pass
NVNT	ac20 SISO	5825	Ant2	17.07	0.05093	30	Pass
NVNT	ac20 MIMO	5180	Ant1	13.28	0.02128	30	Pass
NVNT	ac20 MIMO	5180	Ant2	15.85	0.03846	30	Pass
NVNT	ac20 MIMO	5180	Sum	17.76	0.05974	29.03	Pass
NVNT	ac20 MIMO	5220	Ant1	13.58	0.0228	30	Pass
NVNT	ac20 MIMO	5220	Ant2	16.52	0.04487	30	Pass
NVNT	ac20 MIMO	5220	Sum	18.3	0.06768	29.03	Pass
NVNT	ac20 MIMO	5240	Ant1	13.35	0.02163	30	Pass
NVNT	ac20 MIMO	5240	Ant2	16.45	0.04416	30	Pass
NVNT	ac20 MIMO	5240	Sum	18.18	0.06578	29.03	Pass
NVNT	ac20 MIMO	5745	Ant1	11.75	0.01496	30	Pass
NVNT	ac20 MIMO	5745	Ant2	17.02	0.05035	30	Pass
NVNT	ac20 MIMO	5745	Sum	18.15	0.06531	29.03	Pass
NVNT	ac20 MIMO	5785	Ant1	11.1	0.01288	30	Pass
NVNT	ac20 MIMO	5785	Ant2	16.96	0.04966	30	Pass
NVNT	ac20 MIMO	5785	Sum	17.96	0.06254	29.03	Pass
NVNT	ac20 MIMO	5825	Ant1	11.01	0.01262	30	Pass
NVNT	ac20 MIMO	5825	Ant2	17.13	0.05164	30	Pass
NVNT	ac20 MIMO	5825	Sum	18.08	0.06426	29.03	Pass
NVNT	ac40 SISO	5190	Ant1	15.31	0.03396	30	Pass
NVNT	ac40 SISO	5230	Ant1	15.78	0.03784	30	Pass
NVNT	ac40 SISO	5755	Ant1	15.74	0.0375	30	Pass
NVNT	ac40 SISO	5795	Ant1	15.18	0.03296	30	Pass
NVNT	ac40 SISO	5190	Ant2	15.65	0.03673	30	Pass
NVNT	ac40 SISO	5230	Ant2	16.38	0.04345	30	Pass
NVNT	ac40 SISO	5755	Ant2	15.36	0.03436	30	Pass
NVNT	ac40 SISO	5795	Ant2	15.23	0.03334	30	Pass
NVNT	ac40 MIMO	5190	Ant1	13.11	0.02046	30	Pass
NVNT	ac40 MIMO	5190	Ant2	15.68	0.03698	30	Pass
NVNT	ac40 MIMO	5190	Sum	17.59	0.05745	29.03	Pass
NVNT	ac40 MIMO	5230	Ant1	13.45	0.02213	30	Pass
NVNT	ac40 MIMO	5230	Ant2	16.47	0.04436	30	Pass
NVNT	ac40 MIMO	5230	Sum	18.23	0.06649	29.03	Pass
NVNT	ac40 MIMO	5755	Ant1	9.88	0.00973	30	Pass
NVNT	ac40 MIMO	5755	Ant2	15.35	0.03428	30	Pass
NVNT	ac40 MIMO	5755	Sum	16.43	0.044	29.03	Pass

NVNT	ac40 MIMO	5795	Ant1	9.25	0.00841	30	Pass
NVNT	ac40 MIMO	5795	Ant2	15.25	0.0335	30	Pass
NVNT	ac40 MIMO	5795	Sum	16.22	0.04191	29.03	Pass
NVNT	ac80 SISO	5210	Ant1	15.3	0.03388	30	Pass
NVNT	ac80 SISO	5775	Ant1	15.24	0.03342	30	Pass
NVNT	ac80 SISO	5210	Ant2	15.2	0.03311	30	Pass
NVNT	ac80 SISO	5775	Ant2	14.92	0.03105	30	Pass
NVNT	ac80 MIMO	5210	Ant1	12.54	0.01795	30	Pass
NVNT	ac80 MIMO	5210	Ant2	15.2	0.03311	30	Pass
NVNT	ac80 MIMO	5210	Sum	17.08	0.05106	29.03	Pass
NVNT	ac80 MIMO	5775	Ant1	9.26	0.00843	30	Pass
NVNT	ac80 MIMO	5775	Ant2	14.95	0.03126	30	Pass
NVNT	ac80 MIMO	5775	Sum	15.99	0.03969	29.03	Pass

Note : Directional gain = $10\log[(10^{G0/20}+10^{G1/20})^2/2$ = 6.97dBi＞6dBi, so the power limit shall be reduced to 30-(6.97-6) = 29.03dBm.

A.3. Emission Bandwidth

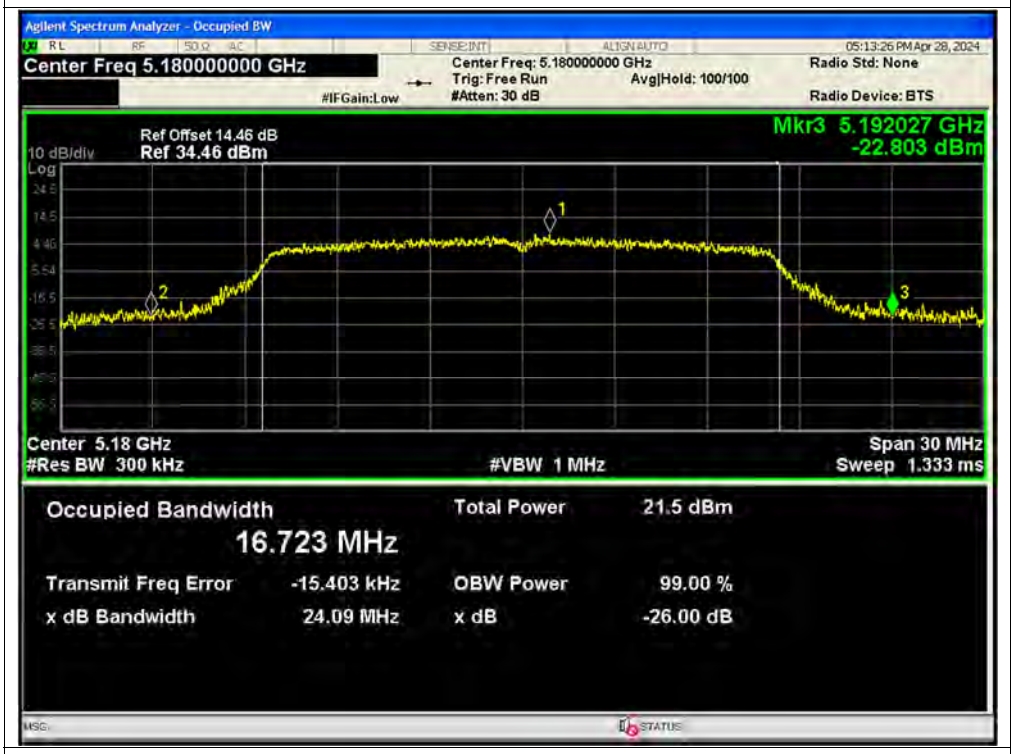
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)
NVNT	a SISO	5180	Ant1	24.085
NVNT	a SISO	5220	Ant1	23.251
NVNT	a SISO	5240	Ant1	20.995
NVNT	a SISO	5180	Ant2	20.070
NVNT	a SISO	5220	Ant2	29.593
NVNT	a SISO	5240	Ant2	29.747
NVNT	n20 SISO	5180	Ant1	20.630
NVNT	n20 SISO	5220	Ant1	23.734
NVNT	n20 SISO	5240	Ant1	21.196
NVNT	n20 SISO	5180	Ant2	20.443
NVNT	n20 SISO	5220	Ant2	29.621
NVNT	n20 SISO	5240	Ant2	29.531
NVNT	n20 MIMO	5180	Ant1	20.141
NVNT	n20 MIMO	5180	Ant2	20.025
NVNT	n20 MIMO	5220	Ant1	20.231
NVNT	n20 MIMO	5220	Ant2	29.102
NVNT	n20 MIMO	5240	Ant1	20.436
NVNT	n20 MIMO	5240	Ant2	29.912
NVNT	n40 SISO	5190	Ant1	41.727
NVNT	n40 SISO	5230	Ant1	48.363
NVNT	n40 SISO	5190	Ant2	40.890
NVNT	n40 SISO	5230	Ant2	59.852
NVNT	n40 MIMO	5190	Ant1	40.517
NVNT	n40 MIMO	5190	Ant2	40.104
NVNT	n40 MIMO	5230	Ant1	40.943
NVNT	n40 MIMO	5230	Ant2	59.852
NVNT	ac20 SISO	5180	Ant1	20.757
NVNT	ac20 SISO	5220	Ant1	22.801
NVNT	ac20 SISO	5240	Ant1	22.514
NVNT	ac20 SISO	5180	Ant2	20.072
NVNT	ac20 SISO	5220	Ant2	29.670
NVNT	ac20 SISO	5240	Ant2	29.598
NVNT	ac20 MIMO	5180	Ant1	20.323
NVNT	ac20 MIMO	5180	Ant2	20.122
NVNT	ac20 MIMO	5220	Ant1	20.423

NVNT	ac20 MIMO	5220	Ant2	29.665
NVNT	ac20 MIMO	5240	Ant1	20.382
NVNT	ac20 MIMO	5240	Ant2	29.557
NVNT	ac40 SISO	5190	Ant1	54.958
NVNT	ac40 SISO	5230	Ant1	54.039
NVNT	ac40 SISO	5190	Ant2	40.741
NVNT	ac40 SISO	5230	Ant2	56.946
NVNT	ac40 MIMO	5190	Ant1	40.834
NVNT	ac40 MIMO	5190	Ant2	40.425
NVNT	ac40 MIMO	5230	Ant1	40.649
NVNT	ac40 MIMO	5230	Ant2	58.448
NVNT	ac80 SISO	5210	Ant1	82.394
NVNT	ac80 SISO	5210	Ant2	81.496
NVNT	ac80 MIMO	5210	Ant1	81.902
NVNT	ac80 MIMO	5210	Ant2	81.396

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a SISO	5745	Ant1	14.85	0.5	Pass
NVNT	a SISO	5785	Ant1	15.04	0.5	Pass
NVNT	a SISO	5825	Ant1	13.728	0.5	Pass
NVNT	a SISO	5745	Ant2	15.058	0.5	Pass
NVNT	a SISO	5785	Ant2	15.066	0.5	Pass
NVNT	a SISO	5825	Ant2	15.058	0.5	Pass
NVNT	n20 SISO	5745	Ant1	15.047	0.5	Pass
NVNT	n20 SISO	5785	Ant1	15.041	0.5	Pass
NVNT	n20 SISO	5825	Ant1	14.071	0.5	Pass
NVNT	n20 SISO	5745	Ant2	15.065	0.5	Pass
NVNT	n20 SISO	5785	Ant2	15.125	0.5	Pass
NVNT	n20 SISO	5825	Ant2	13.717	0.5	Pass
NVNT	n20 MIMO	5745	Ant1	15.281	0.5	Pass
NVNT	n20 MIMO	5745	Ant2	15.655	0.5	Pass
NVNT	n20 MIMO	5785	Ant1	14.77	0.5	Pass
NVNT	n20 MIMO	5785	Ant2	13.777	0.5	Pass
NVNT	n20 MIMO	5825	Ant1	15.027	0.5	Pass
NVNT	n20 MIMO	5825	Ant2	15.064	0.5	Pass
NVNT	n40 SISO	5755	Ant1	34.995	0.5	Pass
NVNT	n40 SISO	5795	Ant1	35.092	0.5	Pass
NVNT	n40 SISO	5755	Ant2	35.041	0.5	Pass
NVNT	n40 SISO	5795	Ant2	35.035	0.5	Pass
NVNT	n40 MIMO	5755	Ant1	35.096	0.5	Pass
NVNT	n40 MIMO	5755	Ant2	31.343	0.5	Pass
NVNT	n40 MIMO	5795	Ant1	35.085	0.5	Pass
NVNT	n40 MIMO	5795	Ant2	35.101	0.5	Pass
NVNT	ac20 SISO	5745	Ant1	15.039	0.5	Pass
NVNT	ac20 SISO	5785	Ant1	15.093	0.5	Pass
NVNT	ac20 SISO	5825	Ant1	13.751	0.5	Pass
NVNT	ac20 SISO	5745	Ant2	15.029	0.5	Pass
NVNT	ac20 SISO	5785	Ant2	15.457	0.5	Pass
NVNT	ac20 SISO	5825	Ant2	15	0.5	Pass
NVNT	ac20 MIMO	5745	Ant1	15.064	0.5	Pass
NVNT	ac20 MIMO	5745	Ant2	15.032	0.5	Pass
NVNT	ac20 MIMO	5785	Ant1	13.88	0.5	Pass

NVNT	ac20 MIMO	5785	Ant2	15.233	0.5	Pass
NVNT	ac20 MIMO	5825	Ant1	15.051	0.5	Pass
NVNT	ac20 MIMO	5825	Ant2	15.667	0.5	Pass
NVNT	ac40 SISO	5755	Ant1	35.078	0.5	Pass
NVNT	ac40 SISO	5795	Ant1	35.113	0.5	Pass
NVNT	ac40 SISO	5755	Ant2	33.842	0.5	Pass
NVNT	ac40 SISO	5795	Ant2	35.042	0.5	Pass
NVNT	ac40 MIMO	5755	Ant1	35.101	0.5	Pass
NVNT	ac40 MIMO	5755	Ant2	35.08	0.5	Pass
NVNT	ac40 MIMO	5795	Ant1	35.121	0.5	Pass
NVNT	ac40 MIMO	5795	Ant2	35.072	0.5	Pass
NVNT	ac80 SISO	5775	Ant1	75.086	0.5	Pass
NVNT	ac80 SISO	5775	Ant2	75.109	0.5	Pass
NVNT	ac80 MIMO	5775	Ant1	75.116	0.5	Pass
NVNT	ac80 MIMO	5775	Ant2	75.068	0.5	Pass

Test Graphs
-26dB Bandwidth NVNT a 5180MHz Ant1 SISO



-26dB Bandwidth NVNT a 5220MHz Ant1 SISO

-26dB Bandwidth NVNT a 5240MHz Ant1 SISO

-26dB Bandwidth NVNT a 5180MHz Ant2 SISO

-26dB Bandwidth NVNT a 5220MHz Ant2 SISO

-26dB Bandwidth NVNT a 5240MHz Ant2 SISO

-26dB Bandwidth NVNT n20 5180MHz Ant1 SISO

-26dB Bandwidth NVNT n20 5220MHz Ant1 SISO

-26dB Bandwidth NVNT n20 5240MHz Ant1 SISO

-26dB Bandwidth NVNT n20 5180MHz Ant2 SISO

-26dB Bandwidth NVNT n20 5220MHz Ant2 SISO

-26dB Bandwidth NVNT n20 5240MHz Ant2 SISO

-26dB Bandwidth NVNT n20 5180MHz Ant1 MIMO

-26dB Bandwidth NVNT n20 5180MHz Ant2 MIMO

-26dB Bandwidth NVNT n20 5220MHz Ant1 MIMO

-26dB Bandwidth NVNT n20 5220MHz Ant2 MIMO

-26dB Bandwidth NVNT n20 5240MHz Ant1 MIMO

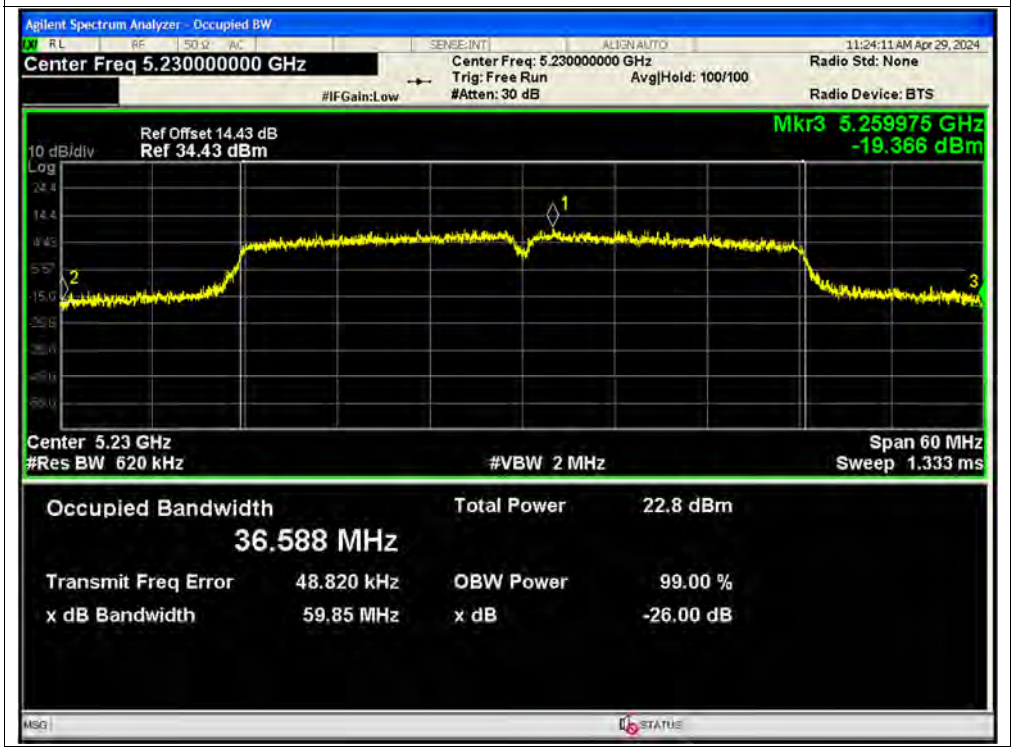
-26dB Bandwidth NVNT n20 5240MHz Ant2 MIMO

-26dB Bandwidth NVNT n40 5190MHz Ant1 SISO

-26dB Bandwidth NVNT n40 5230MHz Ant1 SISO

-26dB Bandwidth NVNT n40 5190MHz Ant2 SISO

-26dB Bandwidth NVNT n40 5230MHz Ant2 SISO

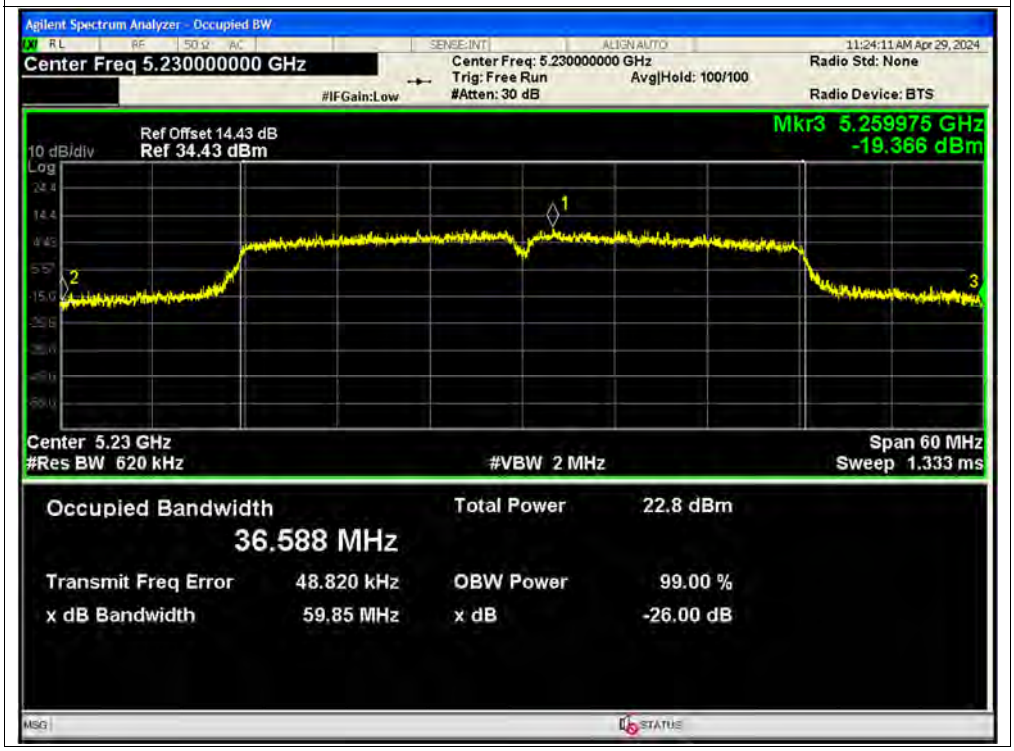


-26dB Bandwidth NVNT n40 5190MHz Ant1 MIMO

-26dB Bandwidth NVNT n40 5190MHz Ant2 MIMO

-26dB Bandwidth NVNT n40 5230MHz Ant1 MIMO

-26dB Bandwidth NVNT n40 5230MHz Ant2 MIMO



-26dB Bandwidth NVNT ac20 5180MHz Ant1 SISO

-26dB Bandwidth NVNT ac20 5220MHz Ant1 SISO

-26dB Bandwidth NVNT ac20 5240MHz Ant1 SISO

-26dB Bandwidth NVNT ac20 5180MHz Ant2 SISO

-26dB Bandwidth NVNT ac20 5220MHz Ant2 SISO

-26dB Bandwidth NVNT ac20 5240MHz Ant2 SISO

-26dB Bandwidth NVNT ac20 5180MHz Ant1 MIMO

-26dB Bandwidth NVNT ac20 5180MHz Ant2 MIMO

-26dB Bandwidth NVNT ac20 5220MHz Ant1 MIMO

-26dB Bandwidth NVNT ac20 5220MHz Ant2 MIMO

-26dB Bandwidth NVNT ac20 5240MHz Ant1 MIMO

-26dB Bandwidth NVNT ac20 5240MHz Ant2 MIMO

-26dB Bandwidth NVNT ac40 5190MHz Ant1 SISO

-26dB Bandwidth NVNT ac40 5230MHz Ant1 SISO

-26dB Bandwidth NVNT ac40 5190MHz Ant2 SISO

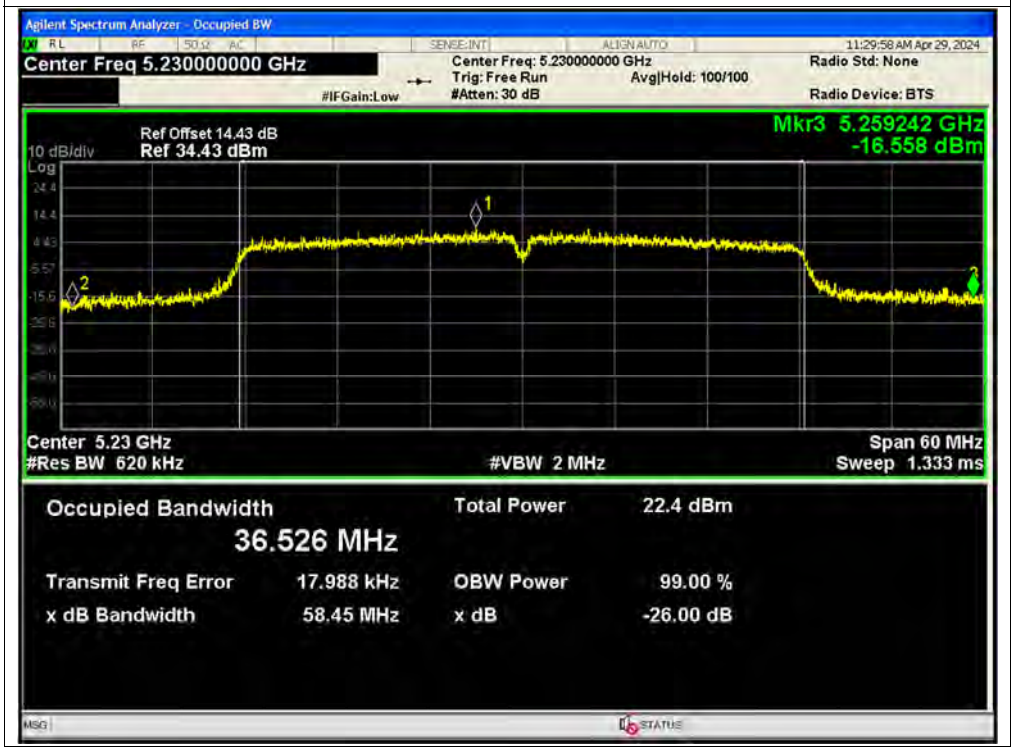
-26dB Bandwidth NVNT ac40 5230MHz Ant2 SISO

-26dB Bandwidth NVNT ac40 5190MHz Ant1 MIMO

-26dB Bandwidth NVNT ac40 5190MHz Ant2 MIMO

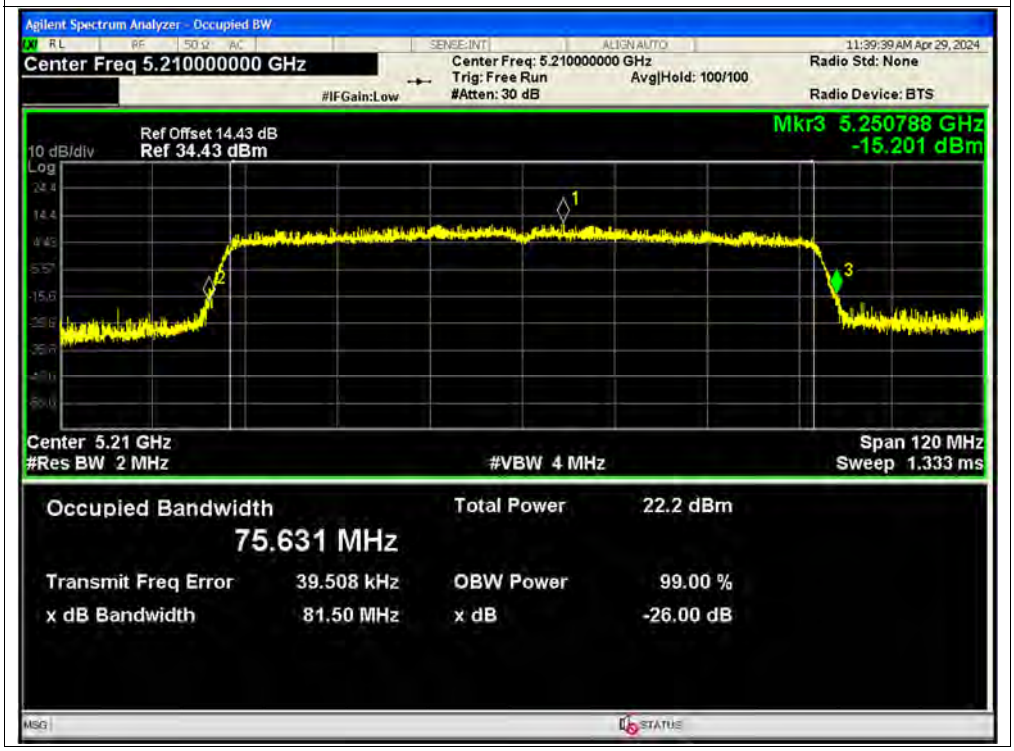
-26dB Bandwidth NVNT ac40 5230MHz Ant1 MIMO

-26dB Bandwidth NVNT ac40 5230MHz Ant2 MIMO

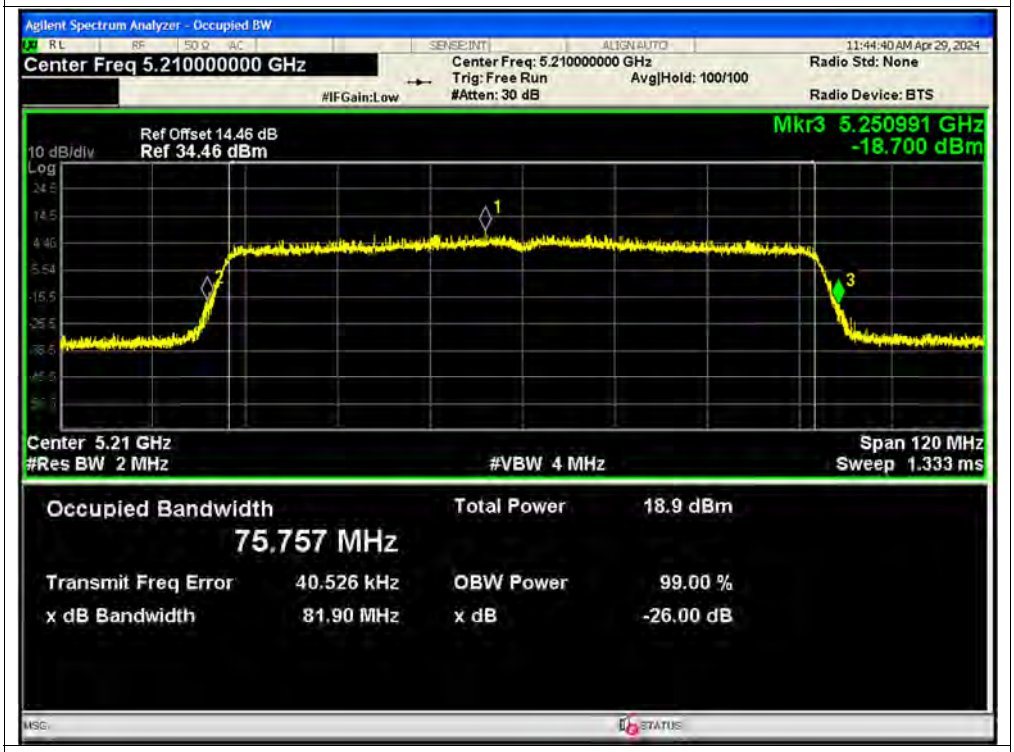


-26dB Bandwidth NVNT ac80 5210MHz Ant1 SISO

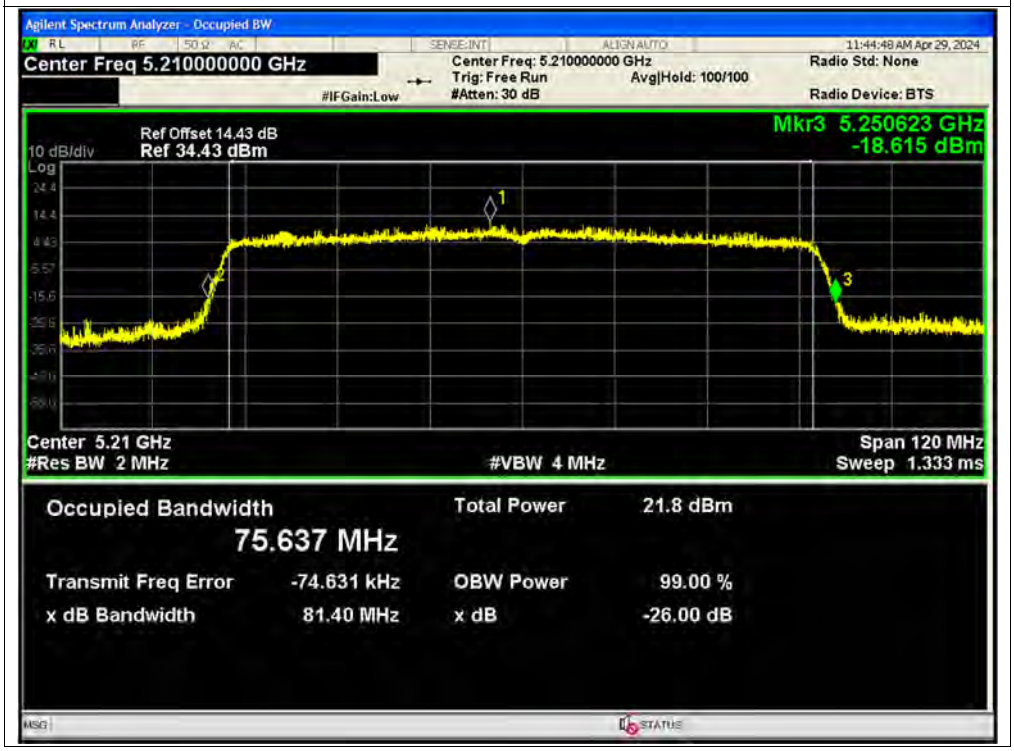
-26dB Bandwidth NVNT ac80 5210MHz Ant2 SISO



-26dB Bandwidth NVNT ac80 5210MHz Ant1 MIMO



-26dB Bandwidth NVNT ac80 5210MHz Ant2 MIMO



Test Graphs
-6dB Bandwidth NVNT a 5745MHz Ant1 SISO

-6dB Bandwidth NVNT a 5785MHz Ant1 SISO

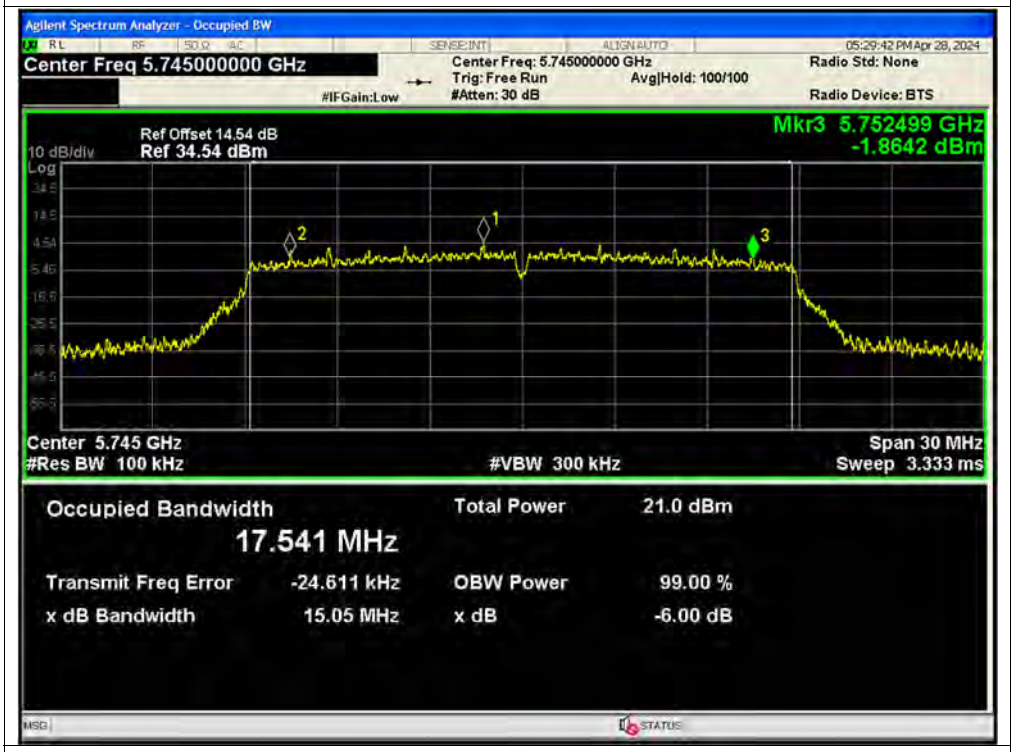
-6dB Bandwidth NVNT a 5825MHz Ant1 SISO

-6dB Bandwidth NVNT a 5745MHz Ant2 SISO

-6dB Bandwidth NVNT a 5785MHz Ant2 SISO

-6dB Bandwidth NVNT a 5825MHz Ant2 SISO

-6dB Bandwidth NVNT n20 5745MHz Ant1 SISO



-6dB Bandwidth NVNT n20 5785MHz Ant1 SISO

-6dB Bandwidth NVNT n20 5825MHz Ant1 SISO

-6dB Bandwidth NVNT n20 5745MHz Ant2 SISO

-6dB Bandwidth NVNT n20 5785MHz Ant2 SISO

-6dB Bandwidth NVNT n20 5825MHz Ant2 SISO

-6dB Bandwidth NVNT n20 5745MHz Ant1 MIMO

-6dB Bandwidth NVNT n20 5745MHz Ant2 MIMO

-6dB Bandwidth NVNT n20 5785MHz Ant1 MIMO

-6dB Bandwidth NVNT n20 5785MHz Ant2 MIMO

-6dB Bandwidth NVNT n20 5825MHz Ant1 MIMO

-6dB Bandwidth NVNT n20 5825MHz Ant2 MIMO

-6dB Bandwidth NVNT n40 5755MHz Ant1 SISO

-6dB Bandwidth NVNT n40 5795MHz Ant1 SISO

-6dB Bandwidth NVNT n40 5755MHz Ant2 SISO

-6dB Bandwidth NVNT n40 5795MHz Ant2 SISO

-6dB Bandwidth NVNT n40 5755MHz Ant1 MIMO

-6dB Bandwidth NVNT n40 5755MHz Ant2 MIMO

-6dB Bandwidth NVNT n40 5795MHz Ant1 MIMO

-6dB Bandwidth NVNT n40 5795MHz Ant2 MIMO

-6dB Bandwidth NVNT ac20 5745MHz Ant1 SISO

-6dB Bandwidth NVNT ac20 5785MHz Ant1 SISO

-6dB Bandwidth NVNT ac20 5825MHz Ant1 SISO

-6dB Bandwidth NVNT ac20 5745MHz Ant2 SISO

-6dB Bandwidth NVNT ac20 5785MHz Ant2 SISO

-6dB Bandwidth NVNT ac20 5825MHz Ant2 SISO

-6dB Bandwidth NVNT ac20 5745MHz Ant1 MIMO

-6dB Bandwidth NVNT ac20 5745MHz Ant2 MIMO

-6dB Bandwidth NVNT ac20 5785MHz Ant1 MIMO

-6dB Bandwidth NVNT ac20 5785MHz Ant2 MIMO

-6dB Bandwidth NVNT ac20 5825MHz Ant1 MIMO

-6dB Bandwidth NVNT ac20 5825MHz Ant2 MIMO

-6dB Bandwidth NVNT ac40 5755MHz Ant1 SISO

-6dB Bandwidth NVNT ac40 5795MHz Ant1 SISO

-6dB Bandwidth NVNT ac40 5755MHz Ant2 SISO

-6dB Bandwidth NVNT ac40 5795MHz Ant2 SISO

-6dB Bandwidth NVNT ac40 5755MHz Ant1 MIMO

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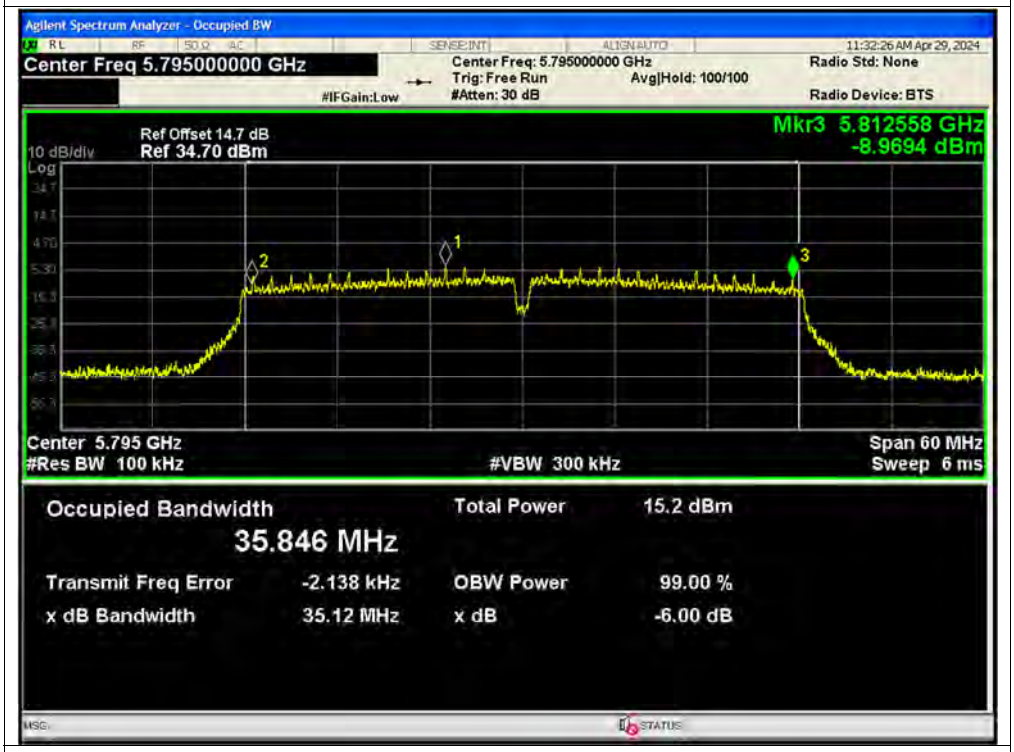
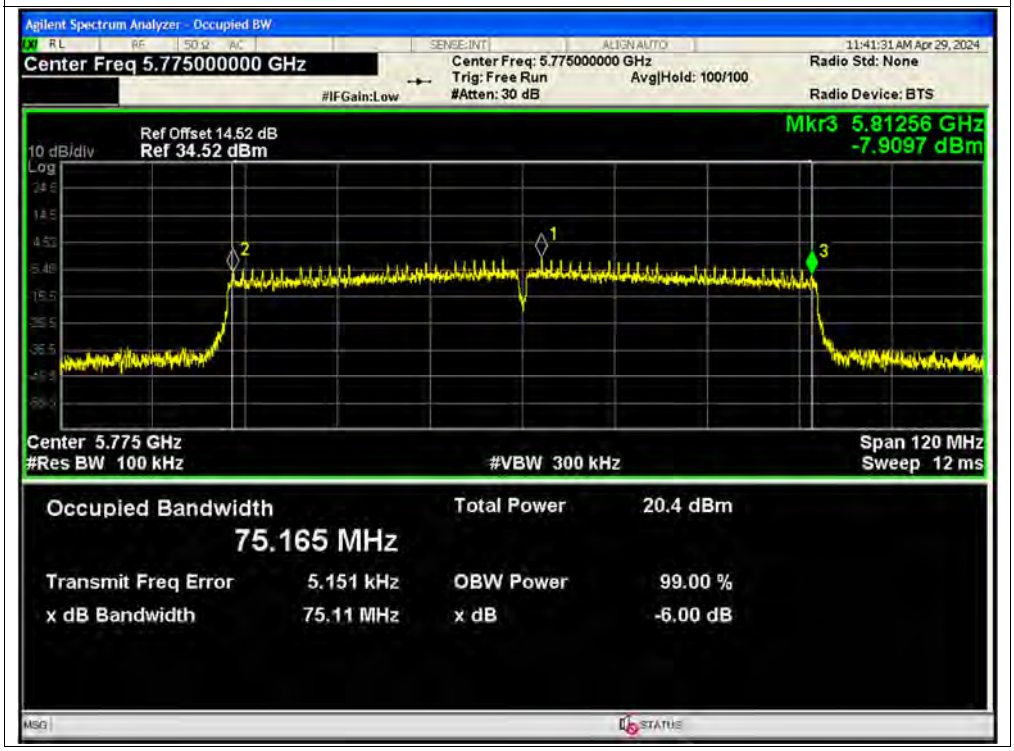
-6dB Bandwidth NVNT ac40 5795MHz Ant1 MIMO



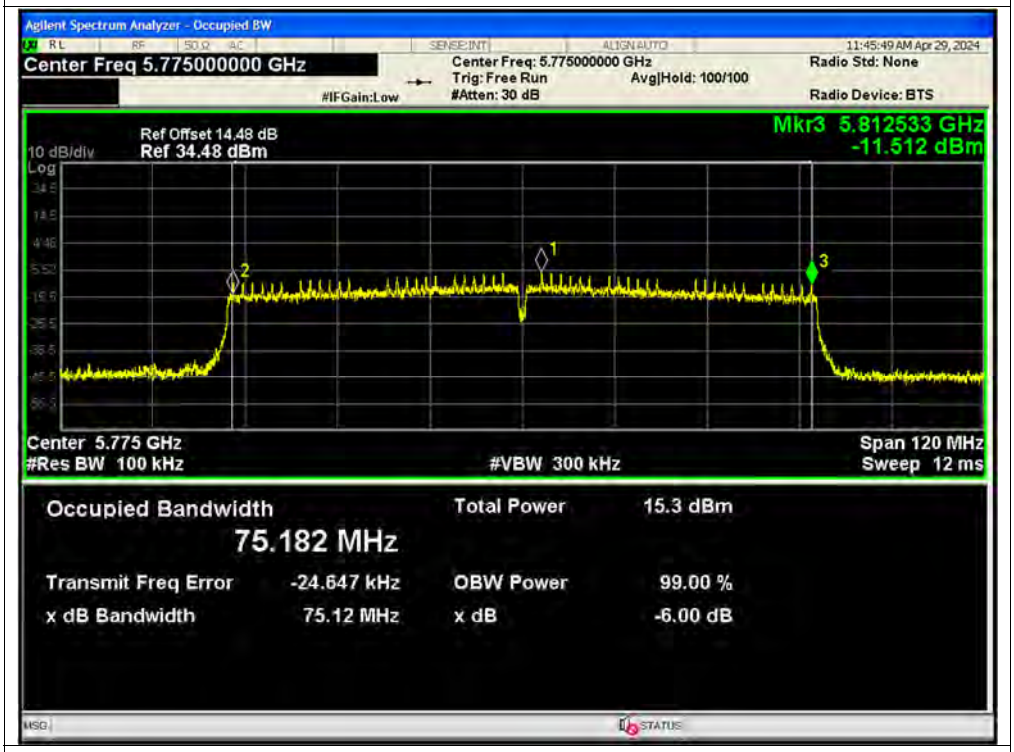
-6dB Bandwidth NVNT ac40 5795MHz Ant2 MIMO

-6dB Bandwidth NVNT ac80 5775MHz Ant1 SISO

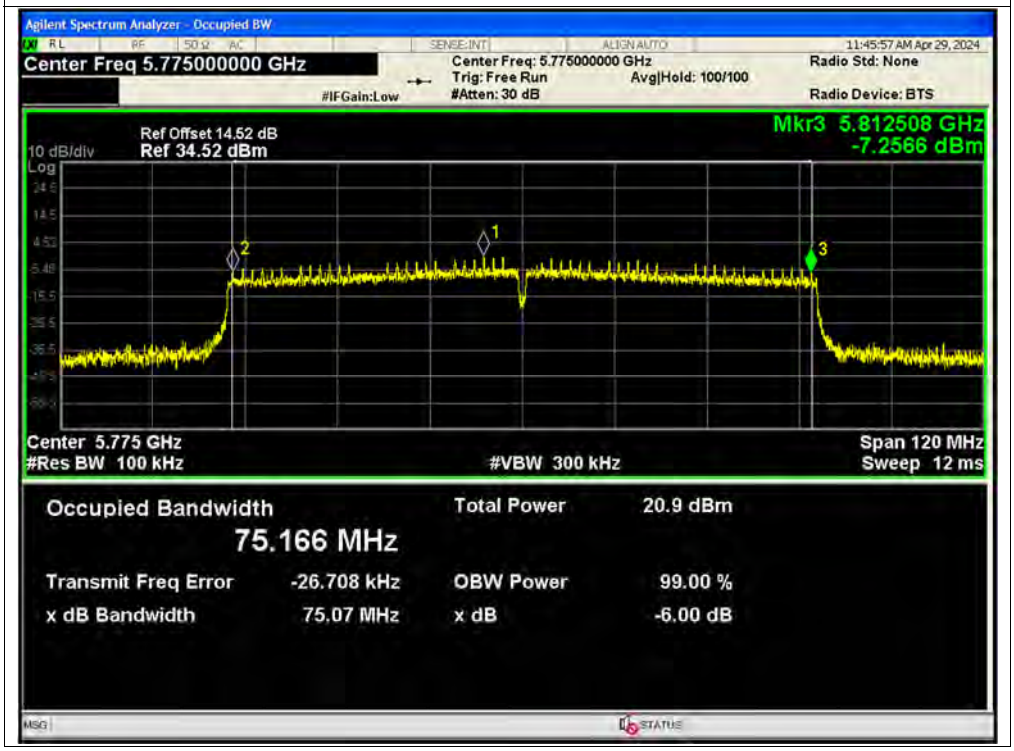
-6dB Bandwidth NVNT ac80 5775MHz Ant2 SISO



-6dB Bandwidth NVNT ac80 5775MHz Ant1 MIMO



-6dB Bandwidth NVNT ac80 5775MHz Ant2 MIMO



A.4. Peak Power Spectral Density

Condition	Mode	Freq. (MHz)	Antenna	Conducted PSD (dBm/MHz) (dBm/500kHz @U-NII-3)	Duty Factor (dB)	Total Conducted PSD (dBm/MHz) (dBm/500kHz @ U-NII-3)	Total Conducted PSD (dBm/MHz) (dBm/500kHz @ U-NII-3)	Verdict
NVNT	a SISO	5180	Ant1	5.18	0.21	5.39	11	Pass
NVNT	a SISO	5220	Ant1	5.16	0.18	5.34	11	Pass
NVNT	a SISO	5240	Ant1	5.2	0.18	5.38	11	Pass
NVNT	a SISO	5745	Ant1	2.97	0.18	3.15	30	Pass
NVNT	a SISO	5785	Ant1	2.7	0.21	2.91	30	Pass
NVNT	a SISO	5825	Ant1	2.18	0.18	2.36	30	Pass
NVNT	a SISO	5180	Ant2	5.8	0.18	5.98	11	Pass
NVNT	a SISO	5220	Ant2	5.19	0.18	5.37	11	Pass
NVNT	a SISO	5240	Ant2	5.39	0.18	5.57	11	Pass
NVNT	a SISO	5745	Ant2	2.57	0.18	2.75	30	Pass
NVNT	a SISO	5785	Ant2	2.75	0.18	2.93	30	Pass
NVNT	a SISO	5825	Ant2	2.42	0.18	2.6	30	Pass
NVNT	n20 SISO	5180	Ant1	4.21	0.19	4.4	11	Pass
NVNT	n20 SISO	5220	Ant1	4.94	0.19	5.13	11	Pass
NVNT	n20 SISO	5240	Ant1	4.96	0.19	5.15	11	Pass
NVNT	n20 SISO	5745	Ant1	1.67	0.23	1.9	30	Pass
NVNT	n20 SISO	5785	Ant1	1.4	0.19	1.59	30	Pass
NVNT	n20 SISO	5825	Ant1	0.84	0.19	1.03	30	Pass
NVNT	n20 SISO	5180	Ant2	4.92	0.19	5.11	11	Pass
NVNT	n20 SISO	5220	Ant2	5.12	0.19	5.31	11	Pass
NVNT	n20 SISO	5240	Ant2	5.18	0.19	5.37	11	Pass
NVNT	n20 SISO	5745	Ant2	2.73	0.23	2.96	30	Pass
NVNT	n20 SISO	5785	Ant2	2.8	0.19	2.99	30	Pass
NVNT	n20 SISO	5825	Ant2	2.58	0.19	2.77	30	Pass
NVNT	n20 MIMO	5180	Ant1	2.25	0.18	2.43	11	Pass
NVNT	n20 MIMO	5180	Ant2	5.1	0.18	5.28	11	Pass
NVNT	n20 MIMO	5180	Sum	NaN	NaN	7.09	10.03	Pass
NVNT	n20 MIMO	5220	Ant1	2.68	0.18	2.86	11	Pass
NVNT	n20 MIMO	5220	Ant2	5.77	0.18	5.95	11	Pass
NVNT	n20 MIMO	5220	Sum	NaN	NaN	7.69	10.03	Pass
NVNT	n20 MIMO	5240	Ant1	1.97	0.19	2.16	11	Pass

NVNT	n20 MIMO	5240	Ant2	4.64	0.19	4.83	11	Pass
NVNT	n20 MIMO	5240	Sum	NaN	NaN	6.7	10.03	Pass
NVNT	n20 MIMO	5745	Ant1	-2.36	0.19	-2.17	30	Pass
NVNT	n20 MIMO	5745	Ant2	2.9	0.19	3.09	30	Pass
NVNT	n20 MIMO	5745	Sum	NaN	NaN	4.22	29.03	Pass
NVNT	n20 MIMO	5785	Ant1	-2.56	0.19	-2.37	30	Pass
NVNT	n20 MIMO	5785	Ant2	2.74	0.19	2.93	30	Pass
NVNT	n20 MIMO	5785	Sum	NaN	NaN	4.05	29.03	Pass
NVNT	n20 MIMO	5825	Ant1	-2.99	0.2	-2.79	30	Pass
NVNT	n20 MIMO	5825	Ant2	2.9	0.2	3.1	30	Pass
NVNT	n20 MIMO	5825	Sum	NaN	NaN	4.1	29.03	Pass
NVNT	n40 SISO	5190	Ant1	1.79	0.39	2.17	11	Pass
NVNT	n40 SISO	5230	Ant1	2.6	0.38	2.98	11	Pass
NVNT	n40 SISO	5755	Ant1	-0.29	0.38	0.09	30	Pass
NVNT	n40 SISO	5795	Ant1	-0.9	0.38	-0.52	30	Pass
NVNT	n40 SISO	5190	Ant2	1.35	0.38	1.73	11	Pass
NVNT	n40 SISO	5230	Ant2	3.13	0.38	3.51	11	Pass
NVNT	n40 SISO	5755	Ant2	-0.15	0.38	0.23	30	Pass
NVNT	n40 SISO	5795	Ant2	-0.65	0.38	-0.27	30	Pass
NVNT	n40 MIMO	5190	Ant1	-0.62	0.38	-0.24	11	Pass
NVNT	n40 MIMO	5190	Ant2	1.73	0.38	2.11	11	Pass
NVNT	n40 MIMO	5190	Sum	NaN	NaN	4.1	10.03	Pass
NVNT	n40 MIMO	5230	Ant1	-0.18	0.38	0.2	11	Pass
NVNT	n40 MIMO	5230	Ant2	2.68	0.38	3.06	11	Pass
NVNT	n40 MIMO	5230	Sum	NaN	NaN	4.87	10.03	Pass
NVNT	n40 MIMO	5755	Ant1	-5.84	0.38	-5.46	30	Pass
NVNT	n40 MIMO	5755	Ant2	-0.51	0.38	-0.13	30	Pass
NVNT	n40 MIMO	5755	Sum	NaN	NaN	0.97	29.03	Pass
NVNT	n40 MIMO	5795	Ant1	-5.85	0.38	-5.47	30	Pass
NVNT	n40 MIMO	5795	Ant2	-0.69	0.38	-0.31	30	Pass
NVNT	n40 MIMO	5795	Sum	NaN	NaN	0.86	29.03	Pass
NVNT	ac20 SISO	5180	Ant1	4.26	0.36	4.62	11	Pass
NVNT	ac20 SISO	5220	Ant1	4.73	0.37	5.1	11	Pass
NVNT	ac20 SISO	5240	Ant1	4.83	0.36	5.19	11	Pass
NVNT	ac20 SISO	5745	Ant1	2.75	0.37	3.12	30	Pass
NVNT	ac20 SISO	5785	Ant1	2.36	0.37	2.73	30	Pass
NVNT	ac20 SISO	5825	Ant1	0.9	1.11	2.01	30	Pass
NVNT	ac20 SISO	5180	Ant2	4.09	0.37	4.46	11	Pass

NVNT	ac20 SISO	5220	Ant2	5.21	0.37	5.58	11	Pass
NVNT	ac20 SISO	5240	Ant2	5.12	0.37	5.49	11	Pass
NVNT	ac20 SISO	5745	Ant2	2.51	0.37	2.88	30	Pass
NVNT	ac20 SISO	5785	Ant2	2.57	0.37	2.94	30	Pass
NVNT	ac20 SISO	5825	Ant2	2.52	0.37	2.89	30	Pass
NVNT	ac20 MIMO	5180	Ant1	1.69	0.37	2.06	11	Pass
NVNT	ac20 MIMO	5180	Ant2	4.24	0.37	4.61	11	Pass
NVNT	ac20 MIMO	5180	Sum	NaN	NaN	6.53	10.03	Pass
NVNT	ac20 MIMO	5220	Ant1	2.23	0.37	2.6	11	Pass
NVNT	ac20 MIMO	5220	Ant2	5.1	0.37	5.47	11	Pass
NVNT	ac20 MIMO	5220	Sum	NaN	NaN	7.28	10.03	Pass
NVNT	ac20 MIMO	5240	Ant1	2.18	0.36	2.54	11	Pass
NVNT	ac20 MIMO	5240	Ant2	5.13	0.36	5.49	11	Pass
NVNT	ac20 MIMO	5240	Sum	NaN	NaN	7.28	10.03	Pass
NVNT	ac20 MIMO	5745	Ant1	-2.57	0.37	-2.2	30	Pass
NVNT	ac20 MIMO	5745	Ant2	2.44	0.37	2.81	30	Pass
NVNT	ac20 MIMO	5745	Sum	NaN	NaN	4	29.03	Pass
NVNT	ac20 MIMO	5785	Ant1	-2.85	0.37	-2.48	30	Pass
NVNT	ac20 MIMO	5785	Ant2	2.61	0.37	2.98	30	Pass
NVNT	ac20 MIMO	5785	Sum	NaN	NaN	4.07	29.03	Pass
NVNT	ac20 MIMO	5825	Ant1	-3.3	0.36	-2.94	30	Pass
NVNT	ac20 MIMO	5825	Ant2	2.52	0.36	2.88	30	Pass
NVNT	ac20 MIMO	5825	Sum	NaN	NaN	3.89	29.03	Pass
NVNT	ac40 SISO	5190	Ant1	1.81	0.67	2.48	11	Pass
NVNT	ac40 SISO	5230	Ant1	2.21	0.69	2.9	11	Pass
NVNT	ac40 SISO	5755	Ant1	-0.49	0.67	0.18	30	Pass
NVNT	ac40 SISO	5795	Ant1	-0.64	0.69	0.05	30	Pass
NVNT	ac40 SISO	5190	Ant2	1.51	0.69	2.2	11	Pass
NVNT	ac40 SISO	5230	Ant2	1.91	0.69	2.6	11	Pass
NVNT	ac40 SISO	5755	Ant2	-2.23	0.69	-1.54	30	Pass
NVNT	ac40 SISO	5795	Ant2	-2.06	0.69	-1.37	30	Pass
NVNT	ac40 MIMO	5190	Ant1	-1.25	0.69	-0.56	11	Pass
NVNT	ac40 MIMO	5190	Ant2	1.24	0.69	1.93	11	Pass
NVNT	ac40 MIMO	5190	Sum	NaN	NaN	3.87	10.03	Pass
NVNT	ac40 MIMO	5230	Ant1	-0.83	0.69	-0.14	11	Pass
NVNT	ac40 MIMO	5230	Ant2	1.83	0.69	2.52	11	Pass
NVNT	ac40 MIMO	5230	Sum	NaN	NaN	4.41	10.03	Pass
NVNT	ac40 MIMO	5755	Ant1	-7.61	0.69	-6.92	30	Pass

NVNT	ac40 MIMO	5755	Ant2	-2.33	0.69	-1.64	30	Pass
NVNT	ac40 MIMO	5755	Sum	NaN	NaN	-0.51	29.03	Pass
NVNT	ac40 MIMO	5795	Ant1	-8.04	0.69	-7.35	30	Pass
NVNT	ac40 MIMO	5795	Ant2	-2.3	0.69	-1.61	30	Pass
NVNT	ac40 MIMO	5795	Sum	NaN	NaN	-0.6	29.03	Pass
NVNT	ac80 SISO	5210	Ant1	-2.24	1.19	-1.05	11	Pass
NVNT	ac80 SISO	5775	Ant1	-4.9	1.19	-3.71	30	Pass
NVNT	ac80 SISO	5210	Ant2	-1.88	1.25	-0.63	11	Pass
NVNT	ac80 SISO	5775	Ant2	-5.03	1.19	-3.84	30	Pass
NVNT	ac80 MIMO	5210	Ant1	-5.16	1.19	-3.97	11	Pass
NVNT	ac80 MIMO	5210	Ant2	-2.4	1.19	-1.21	11	Pass
NVNT	ac80 MIMO	5210	Sum	NaN	NaN	0.64	10.03	Pass
NVNT	ac80 MIMO	5775	Ant1	-10.98	1.25	-9.73	30	Pass
NVNT	ac80 MIMO	5775	Ant2	-5.11	1.25	-3.86	30	Pass
NVNT	ac80 MIMO	5775	Sum	NaN	NaN	-2.84	29.03	Pass

Note: Directional gain = $10\log[(10^{G0/20}+10^{G1/20})^2/2$ = 6.97dBi＞6dBi, so the power spectral density limit shall be reduced to 11-(6.97-6) =10.03dBm for 5.18-5.24GHz, 5.260-5.320GHz, 5.500-5.720GHz band and reduced to 30-(6.97-6) = 29.03dBm for 5.745-5.825GHz band.

Test Graphs
PSD NVNT a 5180MHz Ant1 SISO

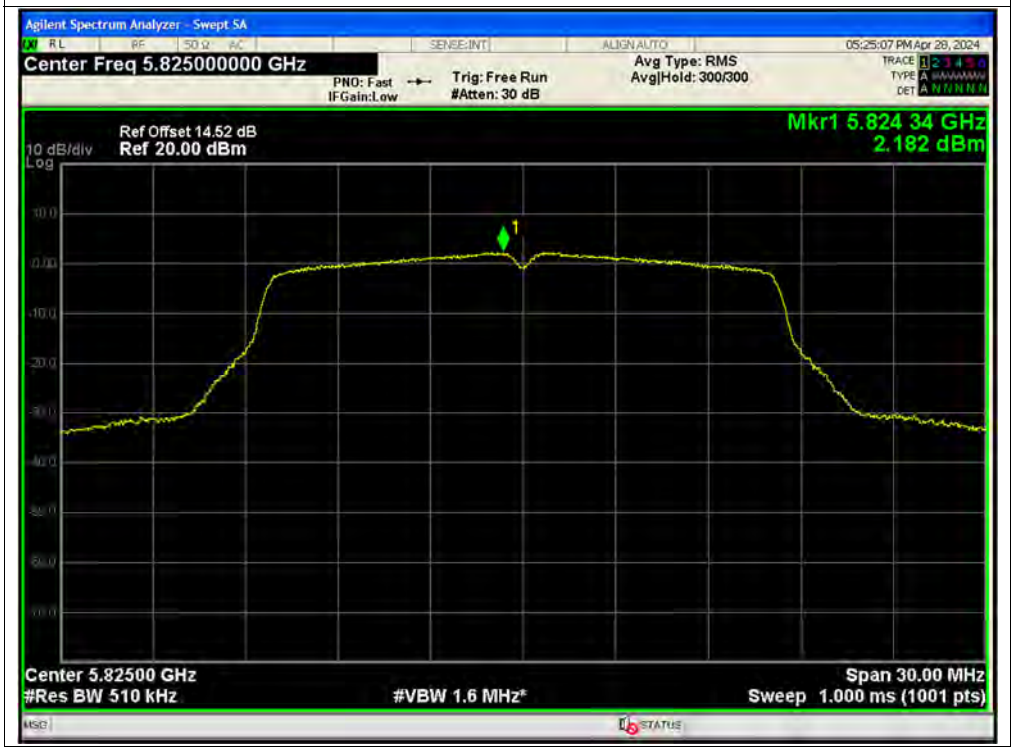
PSD NVNT a 5220MHz Ant1 SISO

PSD NVNT a 5240MHz Ant1 SISO

PSD NVNT a 5745MHz Ant1 SISO

PSD NVNT a 5785MHz Ant1 SISO

PSD NVNT a 5825MHz Ant1 SISO



PSD NVNT a 5180MHz Ant2 SISO

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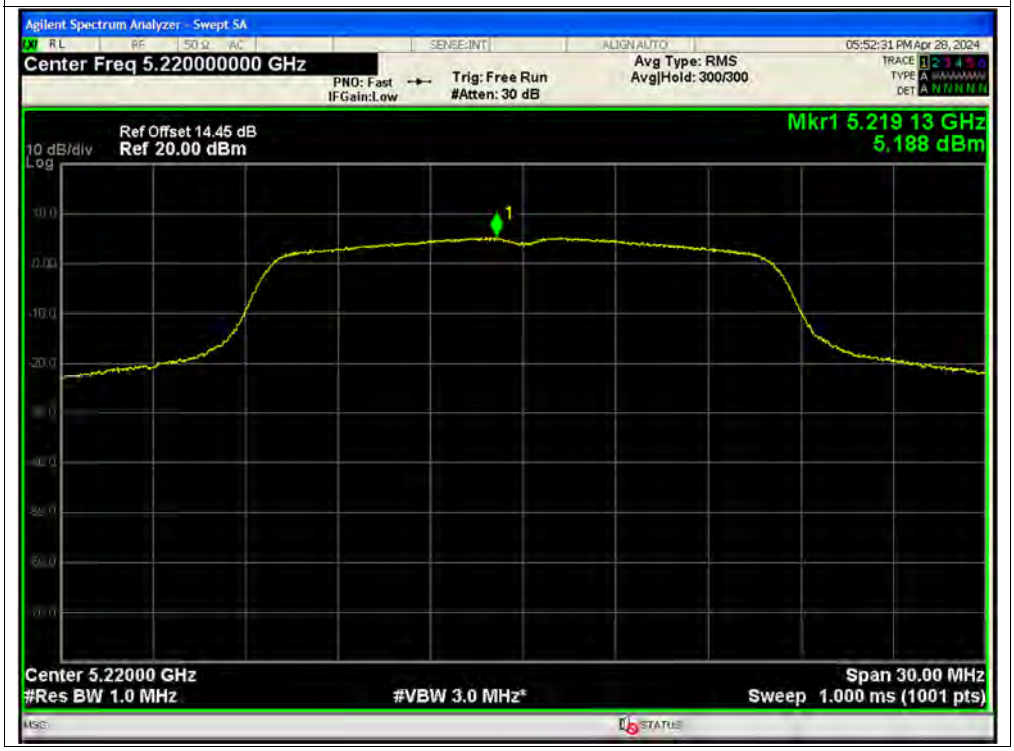

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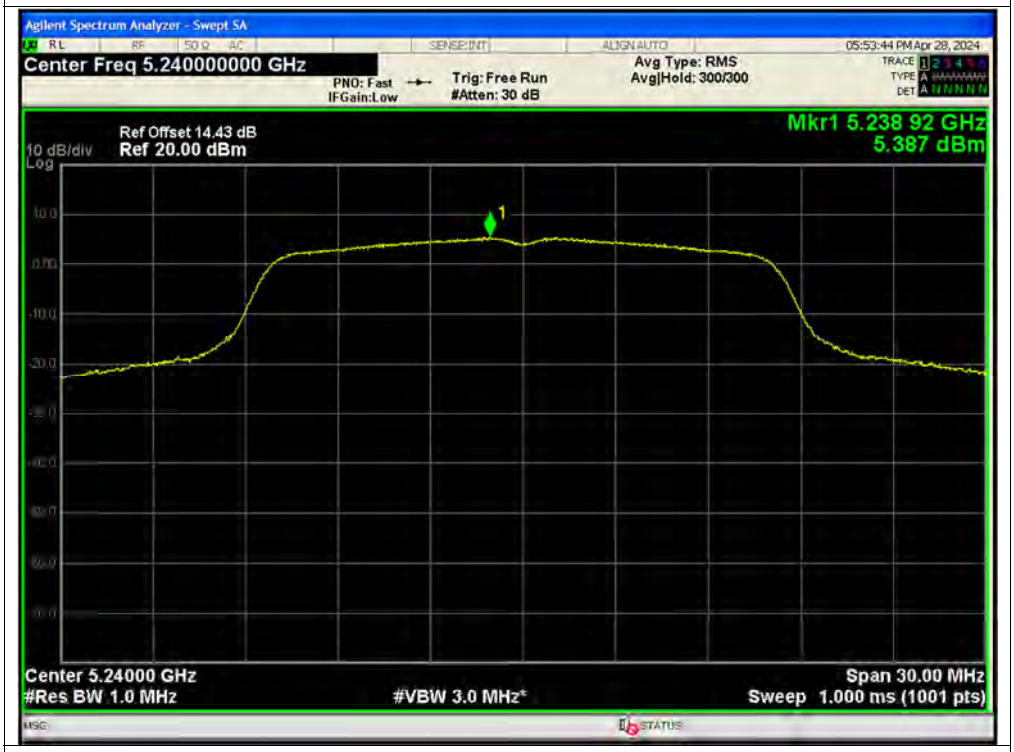

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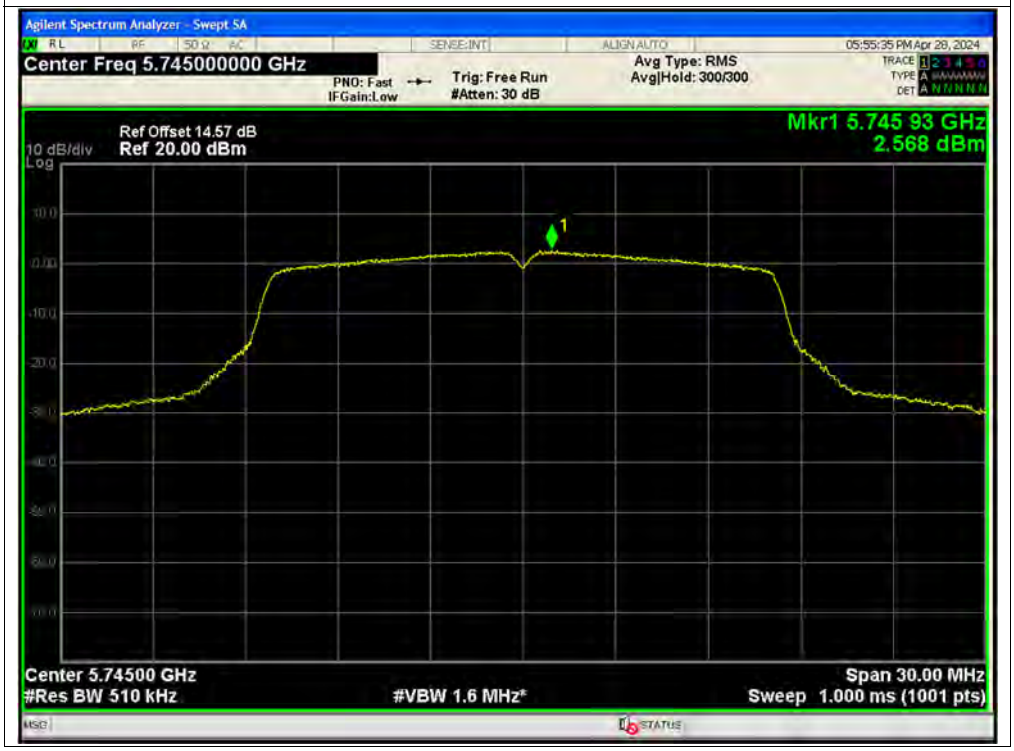

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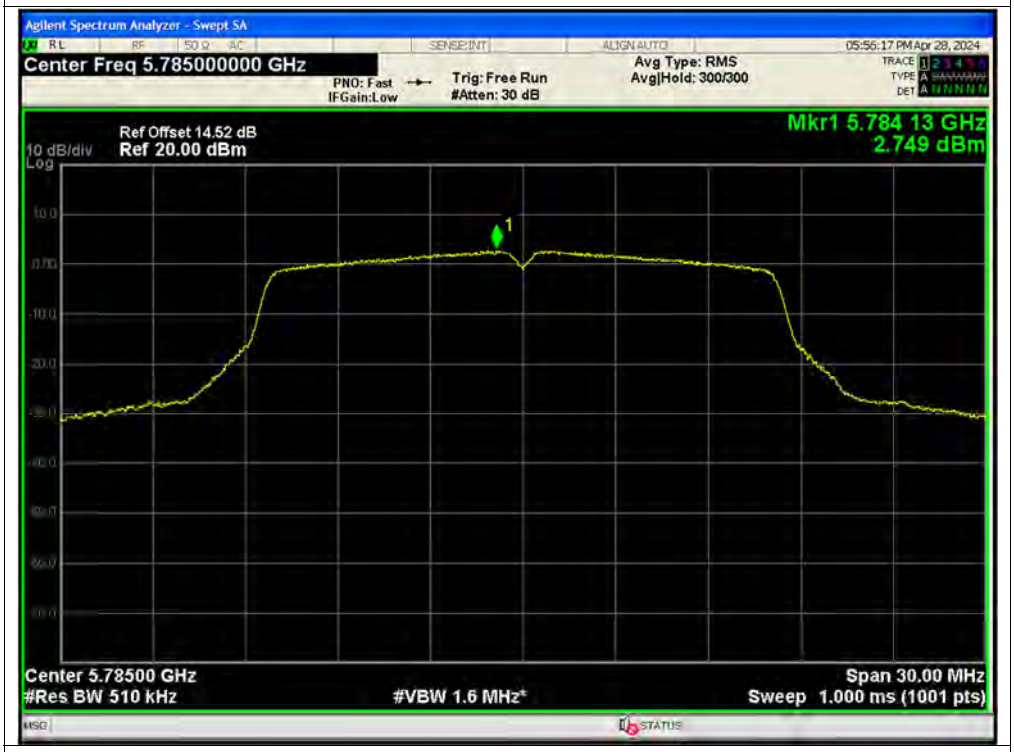
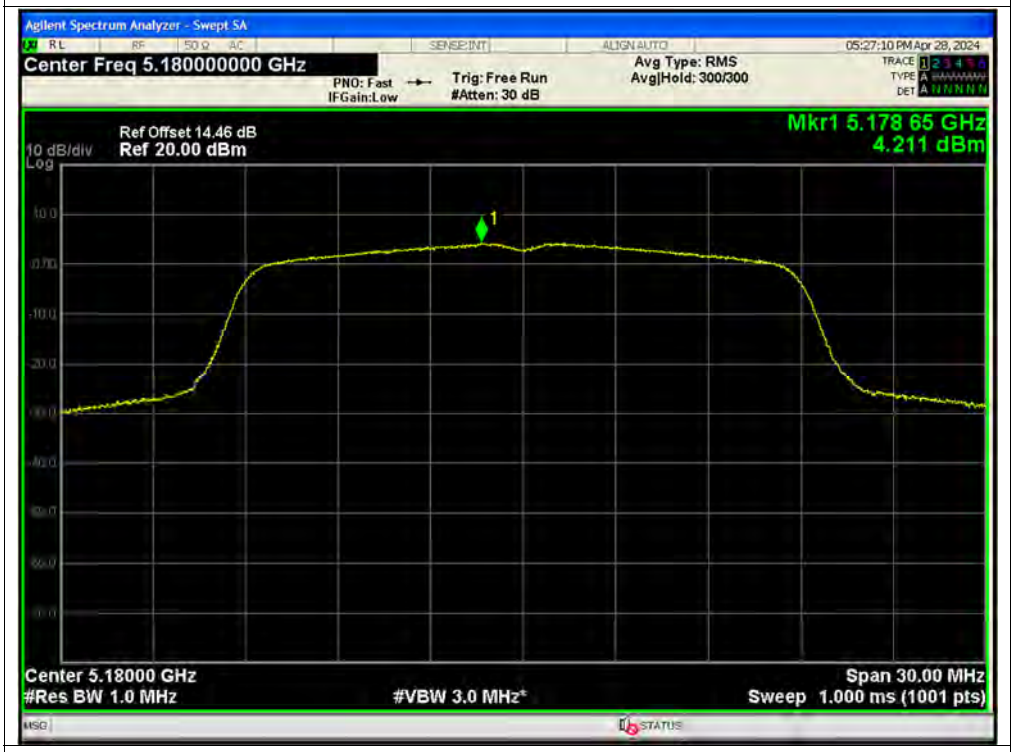


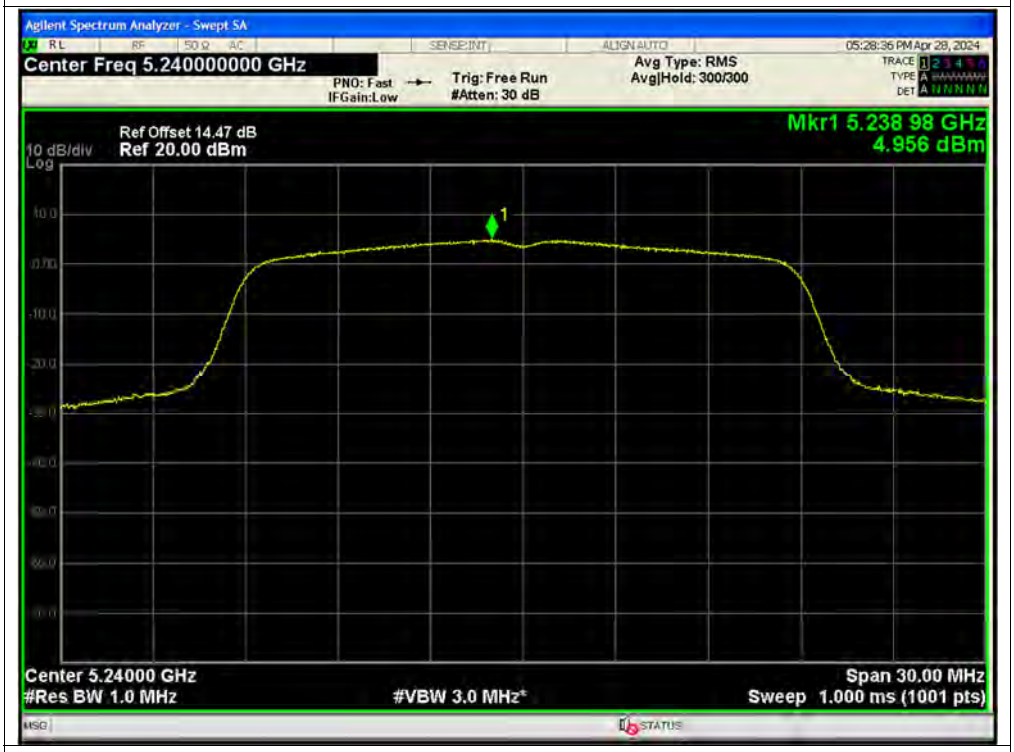
PSD NVNT a 5825MHz Ant2 SISO

PSD NVNT n20 5180MHz Ant1 SISO



PSD NVNT n20 5220MHz Ant1 SISO

PSD NVNT n20 5240MHz Ant1 SISO



PSD NVNT n20 5745MHz Ant1 SISO