MORLAB,

REPORT No.: SZ23120229W06

TEST REPORT

APPLICANT	:	Reliance Communications LLC

PRODUCT NAME : Orbic Joy 2

MODEL NAME : RC656V

BRAND NAME : Orbic

- FCC ID : 2ABGH-RC656V
- STANDARD(S) : 47 CFR Part 15 Subpart E

RECEIPT DATE : 2024-02-29

TEST DATE : 2024-03-04 to 2024-04-30

ISSUE DATE : 2024-06-07



Pong Mi

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Change History				
Version Date		Reason for change		
1.0	2024-06-07	First edition		





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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 _{Note1}	No deviation
2	ANSI C63.10	Duty Cycle of the Test Signal	Mar. 07, 2024	He Yuyang	PASS _{Note1}	No deviation
3	15.407(a)	Maximum Conducted Output Power	Mar. 07, 2024	He Yuyang	PASS _{Note1}	No deviation
4	15.407(a) (e)	Emission Bandwidth	Mar. 07, 2024	He Yuyang	PASS _{Note1}	No deviation
5	15.407(a)	Peak Power Spectral Density	Mar. 07, 2024	He Yuyang	PASS _{Note1}	No deviation
6	15.407(g)	Frequency Stability	Mar. 07, 2024	He Yuyang	PASS _{Note1}	No deviation
7	15.407(h)	DFS	Mar. 07, 2024	He Yuyang	PASS _{Note1}	No deviation
8	15.207	Conducted Emission	Mar. 27, 2024	Wang Deyong	PASS _{Note1}	No deviation
9	15.407(b)	Restricted Frequency Bands	Apr. 11 to 25, 2024	Li Hanbin	PASS _{Note1}	No deviation
10	15.407(b)	Radiated Emission	Apr. 14 to 16, 2024	Li Hanbin	PASS _{Note1}	No deviation

Note 1: The test results of these test items in this report refer to the test report (Report No.: SZ24020168W06).

Note 2: The tests of Conducted Emission and Radiated Emission were performed according to the method of measurements prescribed in ANSI C63.102013.

Note 3: These RF tests were performed according to the method of measurements prescribed in KDB 789033 D02 v02r01.

Note 4: These RF tests were performed according to the method of measurements prescribed in KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02.

Note 5: 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 6: 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





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1.2. Test Equipment List

1.2.1 Conducted Test Equipment

Equipment Name	Serial No.	Туре	Manufacturer	Cal. Date	Due Date
EXA Signal	MY53470836	N9010A	Agilent	2024.02.19	2025.02.18
Analyzer					
USB Wideband	MXE440000		Agilant	0000 40 47	2024 40 46
Power Sensor	MY54180008	U2021XA	Agilent	2023.10.17	2024.10.16
Temperature	12108015	DTL-003S	YOMA	2023.09.19	2024.09.18
Chamber	12100015	101	TOWA	2023.09.19	2024.09.10
RF Cable			Mariah	N/A	N1/A
(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 Name	Serial No.	Туре	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
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





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1.2.4 Radiated Test Equipment

Equipment					
Equipment Name	Serial No.	Туре	Manufacturer	Cal. Date	Due Date
Receiver	MY54130016	N9038A	Agilent	2023.06.21	2024.06.20
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2023.07.01	2024.06.30
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2023.06.26	2024.06.25
Test Antenna – Horn	01774	BBHA 9120D	Schwarzbeck	2023.07.01	2024.06.30
Test Antenna – Horn	BBHA9170 #773	BBHA9170	Schwarzbeck	2023.07.01	2024.06.30
Preamplifier (10MHz-6GHz)	46732	S10M100L38 02	LUCIX CORP.	2023.06.27	2024.06.26
Preamplifier (2GHz-18GHz)	61171/61172	S020180L32 03	LUCIX CORP.	2023.06.27	2024.06.26
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118- 40C-S	Decentest	2023.07.04	2024.07.03
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2023.06.27	2024.06.26
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2023.06.27	2024.06.26
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2023.06.27	2024.06.26
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-K K-0.5	Qualwave	2023.07.04	2024.07.03
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-K KF-2	Qualwave	2023.07.04	2024.07.03
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-N N-5	Qualwave	2023.07.04	2024.07.03
Notch Filter	N/A	WRCG- 5150-5350	Wainwright	N/A	N/A
Notch Filter	N/A	WRCG- 5470-5725	Wainwright	N/A	N/A
Notch Filter	N/A	WRCG- 5725-5850	Wainwright	N/A	N/A
Anechoic Chamber	N/A	9m*6m*6m	CRT	2022.05.10	2025.05.09



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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.
	FL.3, Building A, FeiYang Science Park, No.8 LongChang
Laboratory Address	Road, Block 67, BaoAn District, ShenZhen, GuangDong
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FCC Designation Number	CN1192
FCC Test Firm	226174
Registration Number	220174





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2. General Description

2.1. Information of Applicant and Manufacturer

Applicant	Reliance Communications LLC	
Applicant Address	555 Wireless Blvd. Hauppauge, NY 11788, USA	
Manufacturer	SHENZHEN CHINO-E COMMUNICATION CO., LTD	
	No. 503, 505, 5th Floor, Hengjiang Mansion, Intersection of	
Manufacturer Address	Bulong Road and Renmin Road, Longhua New District,	
	Shenzhen, China.	

2.2. Information of EUT

Product Name:	Orbic Joy 2			
Sample No.:	2#			
Hardware Version:	V1.0			
Software Version:	RC656V_v1.0.43	BVZTF		
Modulation Technology:	OFDM			
Modulation Mode:	802.11a, 802.11n	i (HT20), 802.11n (HT40)		
	802.11ac (VHT20), 802.11ac (VHT40), 802.11ac (VHT80)		
Operating Frequency Range:	5180MHz-5240M	IHz; 5260MHz-5320MHz;		
Operating requency Range.	5500MHz-5720M	5500MHz-5720MHz; 5745MHz-5825MHz		
Antenna Type:	PIFA Antenna			
Antenna Gain:	3.18dBi			
	Battery			
	Brand Name:	Orbic		
	Model No.:	BTE-5005		
Accessory Information	Serial No.:	N/A		
Accessory Information:	Capacity:	5000mAh		
	Rated Voltage:	3.87V		
	Charge Limit:	4.45V		
	Manufacturer:	Shenzhen Aerospace Electronic Co.,Ltd.		







	AC Adapter	
	Brand Name:	Orbic
	Model No.:	OACH023US1
	Serial No.:	N/A
	Rated Output:	5V=3A, 9V=2A, 12V=1.5A
	Rated Input:	100-240V~50/60Hz,0.5A
Accessory Information:	Manufacturer 1:	WATAI ELECTRONICS PRIVATE LIMITED
	Manufacturer 2:	KANGYIN ELECTRONIC TECHNOLOGY CO.,LTD
	USB Cable	· · · · · · · · · · · · · · · · · · ·
	Model No.:	HX-YLMK-06
	Manufacturer:	HUIZHOU WASHIN ELECTRONICS CO.,LTD

Note 1: This is a variant report of original report (Report No.: SZ24020168W06, FCC ID: 2ABGH-RC656L). Based on the similarity between before, changed model name, software version, FCC ID, enable LTE B13 and disable LTE 17, the others are the same as before. The changes do not affect the test results.

Note 2: We use the dedicated software to control the EUT continuous transmission.

Note 3: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



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2.3. Channel List of EUT

Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
	36	5180	40	5200
20MHz	44	5220	48	5240
40MHz	38	5190	46	5230
80MHz	42	5210		
U-NII-2A) 5260N	Hz-5320MHz			
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
2014	52	5260	56	5280
20MHz	60	5300	64	5320
40MHz	54	5270	62	5310
80MHz	58	5290		
(U-NII-2C) 5500N	Hz-5720MHz			
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
	100	5500	105	5520
20MHz	108	5540	112	5560
	116	5580	120	5600
	124	5620	128	5640
	132	5660	136	5680
	140	5700	144	5720
	102	5510	110	5550
40MHz	118	5590	126	5630
	134	5670	142	5710
80MHz	106	5530	122	5610
	138	5690		
(U-NII-3) 5745M⊦	lz-5825MHz			
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
	149	5745	153	5765
20MHz	157	5785	161	5805
	165	5825		
40MHz	151	5775	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
			BPSK		
802.11a	20	OFDM	QPSK	6 /9/12/18/24/36/	N/A
002.118	20	OFDIVI	16QAM	48/54Mbps	N/A
			64QAM		
			BPSK		
002 11p	802.11n 20/40 (HT20/40)	OFDM	QPSK	MCS0~MCS7	N/A
002.1111		OFDIVI	16QAM		N/A
			64QAM		
			BPSK		
	802.11ac 20/40/80 (VHT20/40/80)	OFDM	QPSK		
802.11ac			16QAM	MSC0~MCS9	N/A
			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.

2.5. Test Conditions

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



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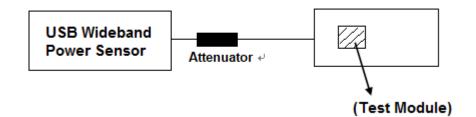
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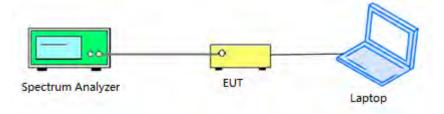
2.6. Test Setup Layout Diagram

2.6.1.Conducted Measurement

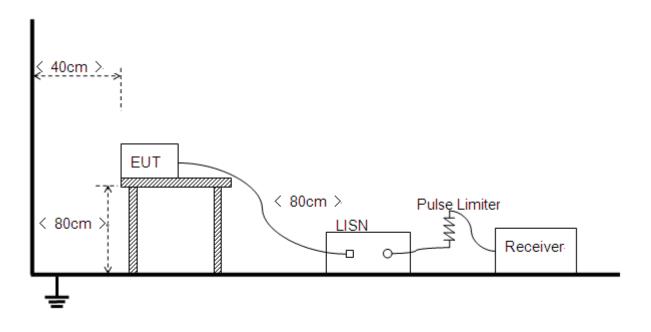
For power item that BW below 80MHz system:



For power item that BW equal or above 80MHz and other items:



2.6.2.Conducted Emission Measurement





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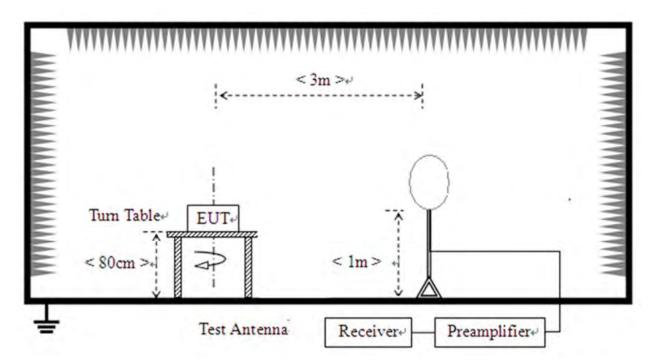
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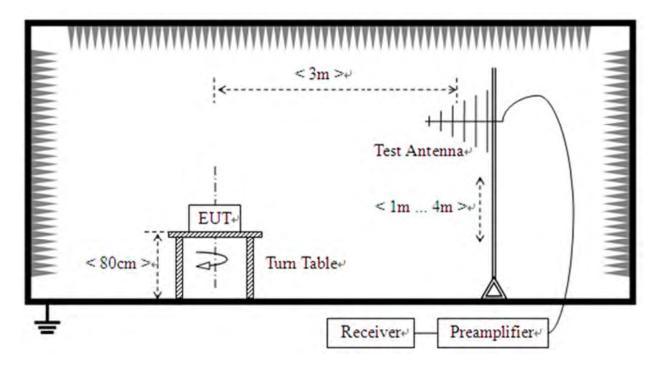


2.6.3.Radiation Measurement

1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to1GHz

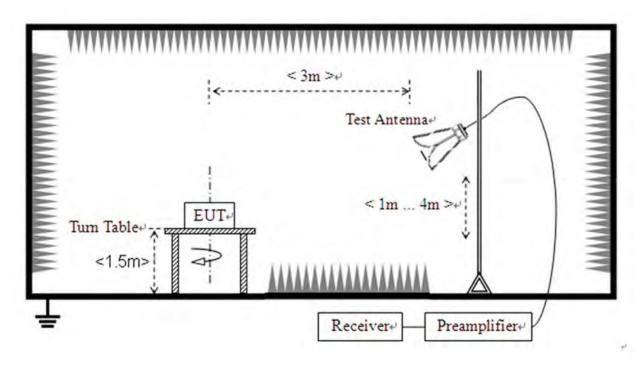




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3) For radiated emissions above 1GHz



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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

Inside of the EUT has a PIFA antenna coupled with the metal shrapnel. Please refer to the EUT photos.



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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.





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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

The EUT (Equipment under the test) which is coupled to the USB Wideband Power Sensor; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading, all test result in USB Wideband Power Sensor.

For ac (VHT80) mode power

The EUT (Equipment under the test) is coupled to the Spectrum analyzer; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading, all test result in Spectrum analyzer.



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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.





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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) \geq 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.



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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.





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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, NANT 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
- Number of points in sweep ≥ 2 Span / RBW. Sweep time = auto
- 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.



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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 10° 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.



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3.7. Dynamic Frequency Selection

3.7.1.Requirement

According to FCC section 15.407(h), (1) Transmit power control (TPC). U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW. (2) Radar Detection Function of Dynamic Frequency Selection (DFS). U-NII devices operating with any part of its 26 dB emission bandwidth in the 5.25-5.35 GHz and 5.47-5.725 GHz bands shall employ a DFS radar detection mechanism to detect the presence of radar systems and to avoid co-channel operation with radar systems. Operators shall only use equipment with a DFS mechanism that is turned on when operating in these bands. The device must sense for radar signals at 100 percent of its emission bandwidth. The minimum DFS detection threshold for devices with a maximum e.i.r.p. of 200 mW to 1 W is -64 dBm. For devices that operate with less than 200 mW e.i.r.p. and a power spectral density of less than 10 dBm in a 1 MHz band, the minimum detection threshold is -62 dBm. The detection threshold is the received power averaged over 1 microsecond referenced to a 0 dBi antenna. For the initial channel setting, the manufacturers shall be permitted to provide for either random channel selection or manual channel selection.

A U-NII network will employ a DFS function to detect signals from radar systems and to avoid co-channel operation with these systems. This applies to the 5250-5350 MHz and/or 5470-5725 MHz bands.1

Within the context of the operation of the DFS function, a U-NII device will operate in either Master Mode or Client Mode. U-NII devices operating in Client Mode can only operate in a network controlled by a U-NII device operating in Master Mode.2

Tables 1 and 2 shown below summarize the information contained in sections 5.1.1 and 5.1.2.

	Operational Mode		
Requirement	Master	Client Without Radar Detection	Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Table 2: Applicability of DFS requirements during normal operation

Paguirament	Operational Mode	
Requirement	Master	Client Without Radar Detection



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DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection	
U-NII Detection Bandwidth and	All BW modes must be tested	Not required	
Statistical Performance Check		······································	
Channel Move Time and Channel	Test using widest BW mode	Test using the widest BW	
Closing Transmission Time	available	mode available for the link	
All other tests	Any single BW mode	Not required	
Note: Frequencies calented for statistical performance shock (Section 7.9.4) should include			

Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

The operational behavior and individual DFS requirements that are associated with these modes are as follows:

Master Devices

a) The Master Device will use DFS in order to detect Radar Waveforms with received signal strength above the DFS Detection Threshold in the 5250 – 5350 MHz and 5470 – 5725 MHz bands. DFS is not required in the 5150 – 5250 MHz or 5725 – 5825 MHz bands.

b) Before initiating a network on a Channel, the Master Device will perform a Channel Availability Check for specified time duration (Channel Availability Check Time) to ensure that there is no radar system operating on the Channel, using DFS described under subsection a) above.

c) The Master Device initiates a U-NII network by transmitting control signals that will enable other U-NII devices to Associate with the Master Device.

d) During normal operation, the Master Device will monitor the Channel (In-Service Monitoring) to ensure that there is no radar system operating on the Channel, using DFS described under a).

e) If the Master Device has detected a Radar Waveform during In-Service Monitoring as described under d), the Operating Channel of the U-NII network is no longer an Available Channel. The Master Device will instruct all associated Client Device(s) to stop transmitting on this Channel within the Channel Move Time. The transmissions during the Channel Move Time will be limited to the Channel Closing Transmission Time.

f) Once the Master Device has detected a Radar Waveform it will not utilize the Channel for the duration of the Non-Occupancy Period. 3.

g) If the Master Device delegates the In-Service Monitoring to a Client Device, then the



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combination will be tested to the requirements described under d) through f) above.

Client Devices

a) A Client Device will not transmit before having received appropriate control signals from a Master Device.

b) A Client Device will stop all its transmissions whenever instructed by a Master Device to which it is associated and will meet the Channel Move Time and Channel Closing Transmission Time requirements. The Client Device will not resume any transmissions until it has again received control signals from a Master Device.

c) If a Client Device is performing In-Service Monitoring and detects a Radar Waveform above the DFS Detection Threshold, it will inform the Master Device. This is equivalent to the Master Device detecting the Radar Waveform and d) through f) of section 5.1.1 apply.

d) Irrespective of Client Device or Master Device detection the Channel Move Time and Channel Closing Transmission Time requirements remain the same.

e) The client test frequency must be monitored to ensure no transmission of any type has occurred for 30 minutes. Note: If the client moves with the master, the device is considered compliant if nothing appears in the client non-occupancy period test. For devices that shut down (rather than moving channels), no beacons should appear.

DFS Detection Thresholds

Table 3 below provides the DFS Detection Thresholds for Master Devices as well as Client Devices incorporating In-Service Monitoring.

Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP ≥ 200 mill watt	-64 dBm
EIRP < 200 mill watt and	60 dBm
power spectral density < 10 dBm/MHz -62 dBm	
EIRP < 200 mill watt that do not meet the power spectral -64 dBm	
density requirement	
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.	

Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. Note3: EIRP is based on the highest antenna gain.

Response Requirements

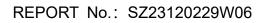
Table 4 provides the response requirements for Master and Client Devices incorporating DFS.

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes



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Channel Availability Check Time	60 seconds	
Channel Move Time	10 seconds	
	See Note 1.	
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds	
	over remaining 10 second period. See Notes 1 and 2.	
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power	
	bandwidth. See Note 3.	
Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed		
with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.		
Note 2: The Channel Clasing Transmission Time is comprised of 200 millions and starting at		

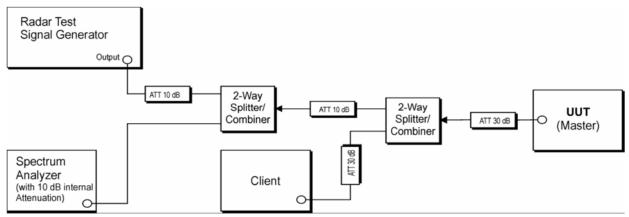
Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

3.7.2.Test Description

According to Section 7.2 of KDB 905462 D02 V01R01

1. Setup for Master with injection at the Master

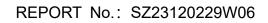


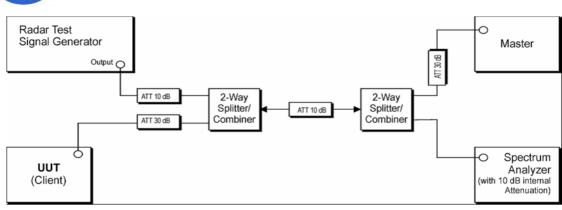
(Example Conducted Setup where UUT is a Master and Radar Test Waveforms are injected into the Master)

2. Setup for Client with injection at the Master



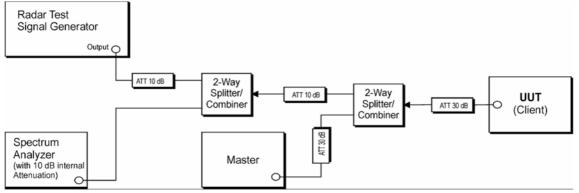
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(Example Conducted Setup where UUT is a Client and Radar Test Waveforms are injected into the Master)

3. Setup for Client with injection at the Client



(Example Conducted Setup where UUT is a Client and Radar Test Waveforms are injected into the Client)

3.7.3.Information of Companion Device

Product Name:	Router
Manufacturer:	ASUS
FCC ID:	MSQ-RTAXJF00
Device Type:	Master Device
Operating Mode:	Master Mode
Serial No:	M3IAJF201046
Antenna Gain:	2.0dBi

3.7.4.Test Result

Refer to Annex A.6 in this report.



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3.8. Conducted Emission

3.8.1.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 50μ H/50 Ω 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.

3.8.2.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.

3.8.3.Test Setup Layout

Refer to chapter 2.6.2 in this report.

3.8.4.Test Result

Refer to Annex A.7 in this report.





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3.9. Restricted Frequency Bands

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:

(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);

 $E = 1000000 \times \sqrt{30P} / 3 \text{ uV/m}$

where P is the EIRP in Watts

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



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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 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:

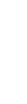
Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength.

3.9.3.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.





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3.10. Radiated Emission

3.10.1.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);

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

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



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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).

3.10.2.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.

3.10.3.Test Setup Layout

Refer to chapter 2.6.3 in this report.

3.10.4.Test Result

Refer to Annex A.9 in this report.



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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	а	5180	Ant1	98.54	0.06	0.49
NVNT	а	5220	Ant1	98.54	0.06	0.49
NVNT	а	5240	Ant1	98.07	0.08	0.49
NVNT	а	5260	Ant1	98.54	0.06	0.49
NVNT	а	5300	Ant1	98.07	0.08	0.49
NVNT	а	5320	Ant1	98.54	0.06	0.49
NVNT	а	5500	Ant1	98.54	0.06	0.49
NVNT	а	5600	Ant1	98.07	0.08	0.49
NVNT	а	5720	Ant1	98.07	0.08	0.49
NVNT	а	5745	Ant1	98.07	0.08	0.49
NVNT	а	5785	Ant1	98.07	0.08	0.49
NVNT	а	5825	Ant1	98.06	0.09	0.5
NVNT	n20	5180	Ant1	98.44	0.07	0.53
NVNT	n20	5220	Ant1	98.44	0.07	0.53
NVNT	n20	5240	Ant1	97.93	0.09	0.53
NVNT	n20	5260	Ant1	97.93	0.09	0.53
NVNT	n20	5300	Ant1	97.93	0.09	0.53
NVNT	n20	5320	Ant1	98.44	0.07	0.53
NVNT	n20	5500	Ant1	97.93	0.09	0.53
NVNT	n20	5600	Ant1	97.93	0.09	0.53
NVNT	n20	5720	Ant1	97.93	0.09	0.53
NVNT	n20	5745	Ant1	97.93	0.09	0.53
NVNT	n20	5785	Ant1	98.44	0.07	0.53
NVNT	n20	5825	Ant1	97.93	0.09	0.53
NVNT	n40	5190	Ant1	96.87	0.14	1.08
NVNT	n40	5230	Ant1	95.88	0.18	1.08
NVNT	n40	5270	Ant1	95.88	0.18	1.08
NVNT	n40	5310	Ant1	95.88	0.18	1.08
NVNT	n40	5510	Ant1	95.83	0.18	1.09
NVNT	n40	5630	Ant1	95.88	0.18	1.08
NVNT	n40	5710	Ant1	95.83	0.18	1.09
NVNT	n40	5755	Ant1	95.88	0.18	1.08
NVNT	n40	5795	Ant1	96.88	0.14	1.08



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NVNT	ac20	5180	Ant1	97.94	0.09	0.53
NVNT	ac20	5220	Ant1	98.45	0.07	0.53
NVNT	ac20	5240	Ant1	97.94	0.09	0.53
NVNT	ac20	5260	Ant1	97.94	0.09	0.53
NVNT	ac20	5300	Ant1	98.45	0.07	0.53
NVNT	ac20	5320	Ant1	97.94	0.09	0.53
NVNT	ac20	5500	Ant1	97.94	0.09	0.53
NVNT	ac20	5600	Ant1	98.45	0.07	0.53
NVNT	ac20	5720	Ant1	97.94	0.09	0.53
NVNT	ac20	5745	Ant1	97.94	0.09	0.53
NVNT	ac20	5785	Ant1	97.94	0.09	0.53
NVNT	ac20	5825	Ant1	97.94	0.09	0.53
NVNT	ac40	5190	Ant1	95.92	0.18	1.06
NVNT	ac40	5230	Ant1	96.91	0.14	1.06
NVNT	ac40	5270	Ant1	96.91	0.14	1.06
NVNT	ac40	5310	Ant1	95.88	0.18	1.08
NVNT	ac40	5510	Ant1	96.91	0.14	1.06
NVNT	ac40	5630	Ant1	96.91	0.14	1.06
NVNT	ac40	5710	Ant1	95.92	0.18	1.06
NVNT	ac40	5755	Ant1	96.91	0.14	1.06
NVNT	ac40	5795	Ant1	95.88	0.18	1.08
NVNT	ac80	5210	Ant1	93.88	0.27	2.17
NVNT	ac80	5290	Ant1	93.88	0.27	2.17
NVNT	ac80	5530	Ant1	92	0.36	2.17
NVNT	ac80	5610	Ant1	91.84	0.37	2.22
NVNT	ac80	5690	Ant1	92	0.36	2.17
NVNT	ac80	5775	Ant1	93.88	0.27	2.17



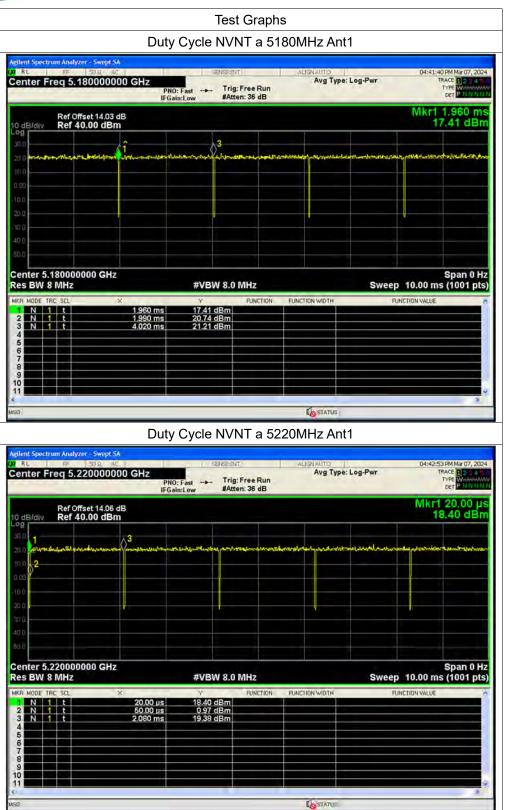


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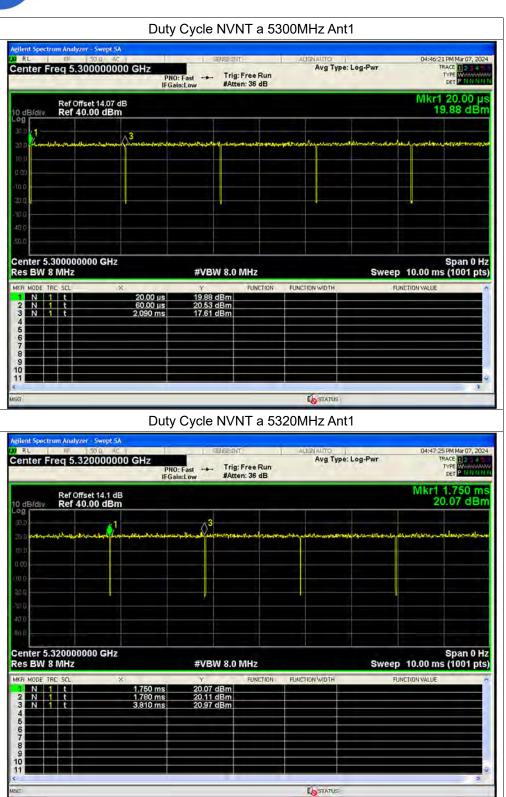


Aug Type: Log-Pwr Tree Run Tre
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ALISN AUTO 04:45:02 PM Mar 07, 20 Avg Type: Log-Pwr TRACE 02 Free Run Tree Run 1: 36 dB 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Avg Type: Log-Pwr TRACE 02 1 Free Run Tree Run h: 36 dB DEF Pwn U
n:36 dB DEF PINNU Mkr1 970.0 L
Mkr1 970.0 μ 18 53 dB
Span 0 H
MHz Sweep 10.00 ms (1001 pt FUNCTION FUNCTION VALUE



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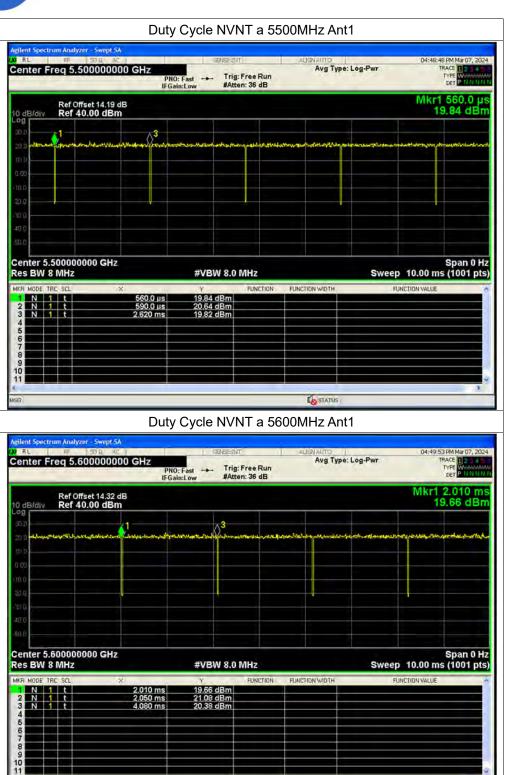




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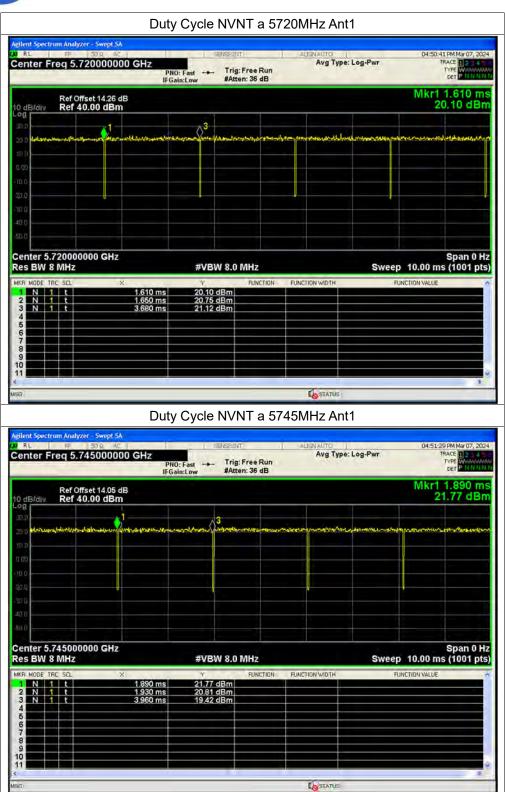




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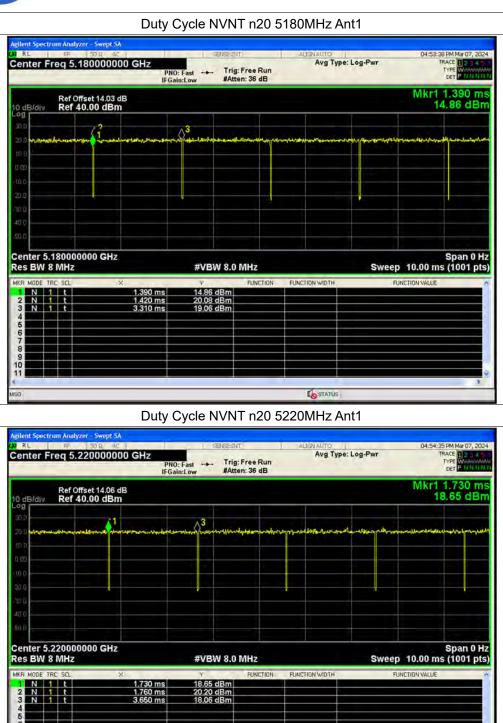


	Duty	Cycle NVNT a	5785MHz Ant1		
gilent Spectrum Analyzer - Swo RL ୩୮ ୨୦୦ Center Freq 5.78500	AC DOODO GHZ PNO:	SENSERINT		og-Pwr	04:52:18 PM Mar 07, 2024 TRACE 2 4 TYPE WARMOND DET P NN NN
Ref Offset 14		n:Low #Atten: 36 dB		ſ	Akr1 1.410 ms
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enter 5.785000000 G	GHz				Span 0 Hz
Res BW 8 MHz #KH MODE TBC SCL 1 N 1 t 2 N 1 t 3 N 1 t	×	#VBW 8.0 MHz Y FUNCTIO 20.85 dBm	DN FUNCTION WIDTH	Sweep 10	.00 ms (1001 pts
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sg glient Spectrum Analyzer - Swi R L RF 50 92	ept SA AC DOODOO GHZ PNO:		5825MHz Ant1 ALIGNALITO Avg Type: L	og-Pwr	04:53:01 PM Mar 07, 2024 TRACE 10 2020
ilent Spectrum Analyzer - Swi RL NF 50 9 Senter Freq 5.82500 Ref Offset 14 0 dB/dly Ref 40.00 0	ept SA ac DODOOD GHz PNO: IFGai I.13 dB	Fast Trig: Free Ru	5825MHz Ant1 ALIGNALITO Avg Type: L		04:53:01 PM Mar 07, 202- TRACE 12 - TYPE (WANNIN CET P 10 MM
se glient Spectrum Analyzer – Swr RL RF S0 & center Freq 5.82500 Ref Offset 14 0 dB/dy Ref 40.00 d	ept SA ac DODOOD GHz PNO: IFGai I.13 dB	SBNSBillNT Fast →- Trig: Free Ru #Atten: 36 dB	5825MHz Ant1 ALIGNALITO Avg Type: L	1	04:53:01 PM Mar 07, 202- TRACE 19:3 TYPE WARMAN GET P MARINA Mkr1 1.920 ms 19.26 dBrr
RE RE Offset 14 RE RE 40.00 of RE RE 50 2 RE 80 2000 Ref 0ffset 14 0 dB/div Ref 40.00 of 93 30 1	ept SA ac DODOOD GHz PNO: IFGai I.13 dB	Fast Trig: Free Ru	5825MHz Ant1 ALIGNALITO Avg Type: L	1	04:53:01 PM Mar 07, 2024
RL RF 500 RL RF 500 Ref Offset 14 0 dB/div Ref 40.00 of 20 0 10 10 10 10 10 10 10	ept SA ac DODOOD GHz PNO: IFGai I.13 dB	SBNSBillNT Fast →- Trig: Free Ru #Atten: 36 dB	5825MHz Ant1 ALIGNALITO Avg Type: L	1	04:53:01 PM Mar 07, 202- TRACE 19:3 TYPE WARMAN GET P MARINA Mkr1 1.920 ms 19.26 dBrr
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sol sol <td>ept SA AC D00000 GHz PNO: IFGai dBm</td> <td>SENSCHNT Fast → Trig: Free Ru #Atten: 36 dB</td> <td>5825MHz Ant1</td> <td></td> <td>04:53:01 PM Mar 07, 2024</td>	ept SA AC D00000 GHz PNO: IFGai dBm	SENSCHNT Fast → Trig: Free Ru #Atten: 36 dB	5825MHz Ant1		04:53:01 PM Mar 07, 2024



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ilent Spectrum Analyzer - S	-		0 5240MHz Ant		
RL IF 50 enter Freq 5.2400	R AC DOODOOD GHZ PNO	SENSEINT I: Fast Trig: Free R in:Low #Atten: 36 dl		g-Pwr	04:55:14 PM Mar 07, 2024 TRACE 22 4 TYPE WW DET P N 11 M
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dB/div Ref 40.00	a a a a a a a a a a a a a a a a a a a				10.00 001
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enter 5.240000000 es BW 8 MHz	GHz	#VBW 8.0 MHz		Sween 1	Span 0 H: 0.00 ms (1001 pts
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	1.020 ms 1.060 ms	19.30 dBm 19.91 dBm			
	2.950 ms	18.96 dBm			
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	Duty (Cycle NVNT n2	6 5260MHz Ant	1	
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ent Spectrum Analyzer - S RL nF 500	wept SA & AC D00000 GHz	SENSE(INT	0 5260MHz Ant		04:55:55 PM Mar 07, 202 TRACE 12 2 1 5 TRACE 12 2 1 5
RL 07 500	R AC D000000 GHz PN0	-	0 5260MHz Ant Augenting Avg Type: Le		TRACE 2 2 4 TYPE W-MMM
lent Spectrum Analyzer - S RL IF 500 enter Freq 5.2600 Ref Offset 1 dB/div Ref 40.00	wept 5A 2000000 GHz PNO IFGa 14.07 dB	SENSE:INT	0 5260MHz Ant Augenting Avg Type: Le		TRACE 2234 TYPE WHANNIN DET P NNNN Mkr1 110.0 µs
lent Spectrum Analyzer - S RL nF 530 enter Freq 5.2600 Ref Offset 1 dB/div Ref 40.00	wept SA 92 AC PNO IFGa 14.07 dB 0 dBm	SENSE:INT	0 5260MHz Ant Augenting Avg Type: Le		TRACE 12049
RL OF 500 RL OF 500 enter Freq 5.2600 cdB/dlv Ref Offset 1 cdB/dlv Ref 40.00	wept 5A 2000000 GHz PNO IFGa 14.07 dB	SENSE:INT	0 5260MHz Ant Augenting Avg Type: Le		TRACE 22 4 TYPE WHANNIN DET P NNNN Mkr1 110.0 µs
lent Spectrum Analyzer - S RL IF 500 enter Freq 5.2600 dB/div Ref Offset 1 dB/div Ref 40.00	wept SA 92 AC PNO IFGa 14.07 dB 0 dBm	SENSE:INT	0 5260MHz Ant ALIONAUTO Avg Type: Lo		TRACE 22 4 TYPE WHANNIN DET P NNNN Mkr1 110.0 µs
lent Spectrum Analyzer - S RL 0F 530 enter Freq 5.2600 dB/div Ref Offset 1 dB/div Ref 40.00	wept SA 92 AC PNO IFGa 14.07 dB 0 dBm	SENSE:INT	0 5260MHz Ant ALIONAUTO Avg Type: Lo		TRACE 22 4 TYPE WHANNIN DET P NNNN Mkr1 110.0 µs
lent Spectrum Analyzer - S RL 0F 530 enter Freq 5.2600 dB/div Ref Offset 1 dB/div Ref 40.00	wept SA 92 AC PNO IFGa 14.07 dB 0 dBm	SENSE:INT	0 5260MHz Ant ALIONAUTO Avg Type: Lo		TRACE 22 4 TYPE WHANNIN DET P NNNN Mkr1 110.0 µs
Int Spectrum Analyzer - S RL 0F 50 enter Freq 5.2600	wept SA 92 AC PNO IFGa 14.07 dB 0 dBm	SENSE:INT	0 5260MHz Ant ALIONAUTO Avg Type: Lo		TRACE 22 4 TYPE WHANNIN DET P NNNN Mkr1 110.0 µs
Ref Offset 1	wept SA 92 AC PNO IFGa 14.07 dB 0 dBm	SENSE:INT	0 5260MHz Ant ALIONAUTO Avg Type: Lo		TRACE 22 4 TYPE WHANNIN DET P NNNN Mkr1 110.0 µs
Int Spectrum Analyzer - S RL 0F 50 enter Freq 5.2600	wept SA 92 AC PNO IFGa 14.07 dB 0 dBm	SENSE:INT	0 5260MHz Ant ALIONAUTO Avg Type: Lo		TRACE 22 4 TYPE WHANNIN DET P NNNN Mkr1 110.0 µs
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a lient Spectrum Analyzer - S RL 0F 500 enter Freq 5.2600 Ref Offset 1 dB/div Ref 40.00	wept SA 8 AC 000000 GHz PRO IFGa 14.07 dB 0 dBm 3 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4	SENSE:INT	0 5260MHz Ant	g-Pwr	Mkr1 110.0 µs 19,66 dBn

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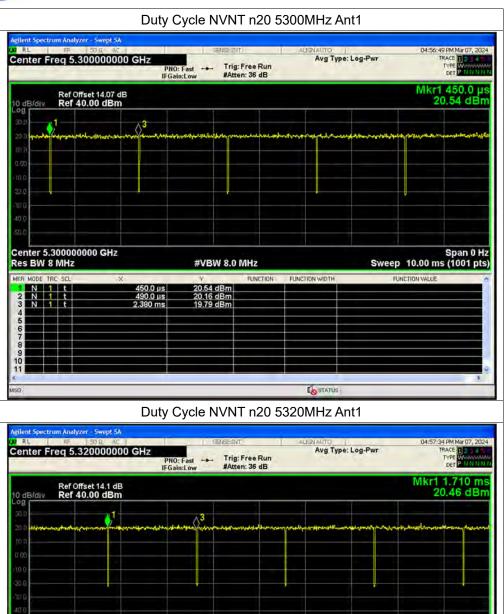
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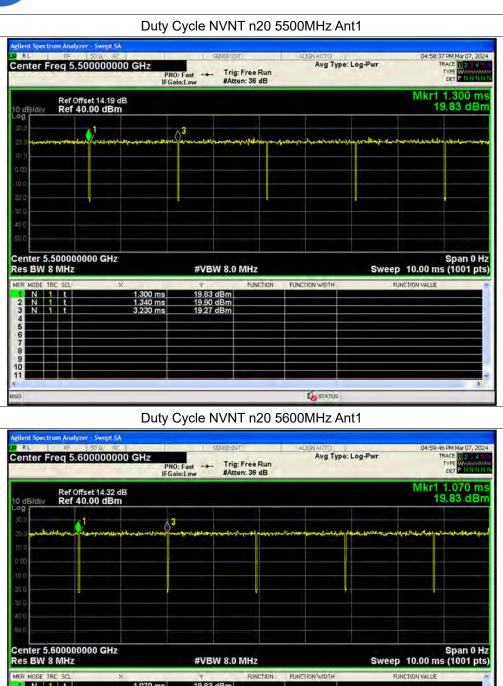


RL RF 50.92 AC	SENSEIINT	ALIGNAUTO	04:57:34 PM Mar 07, 2024
nter Freq 5.320000000 G	PNO: Fast Trig: Free Run IFGain:Low #Atten: 36 dB	Avg Type: Log-Pwr	TRACE 22
Ref Offset 14.1 dB dB/div Ref 40.00 dBm			Mkr1 1.710 ms 20.46 dBm
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nter 5.320000000 GHz s BW 8 MHz	#VBW 8.0 MHz	Swee	Span 0 H: p 10.00 ms (1001 pts
MODE TRC SOL X	Y FUNCTIO	N FUNCTION WIDTH	FUNCTION VALUE
N 1 t 1.	710 ms 20.46 dBm 740 ms 20.09 dBm 530 ms 18.69 dBm		
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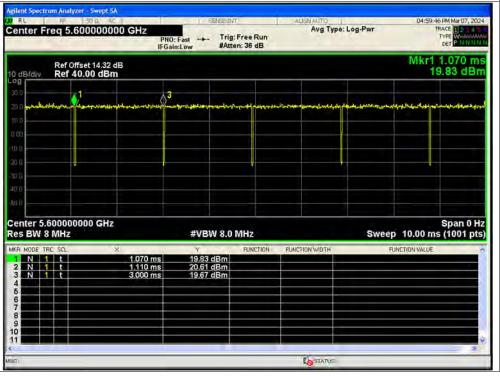
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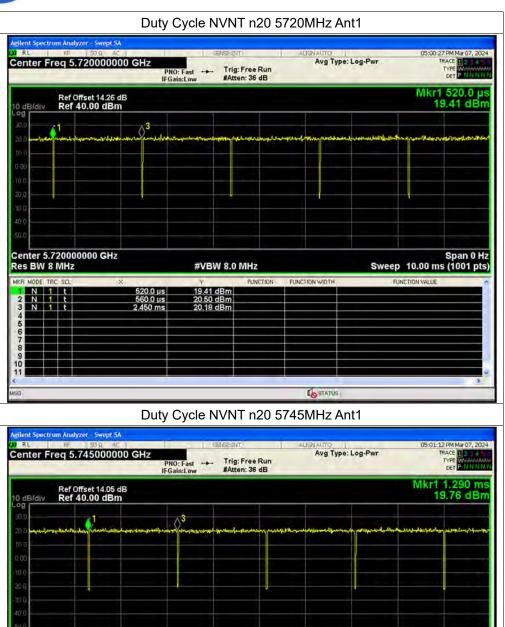
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Span 0 Hz Sweep 10.00 ms (1001 pts) #VBW 8.0 MHz FUNCTION 19.76 dBm 20.06 dBm 19.84 dBm

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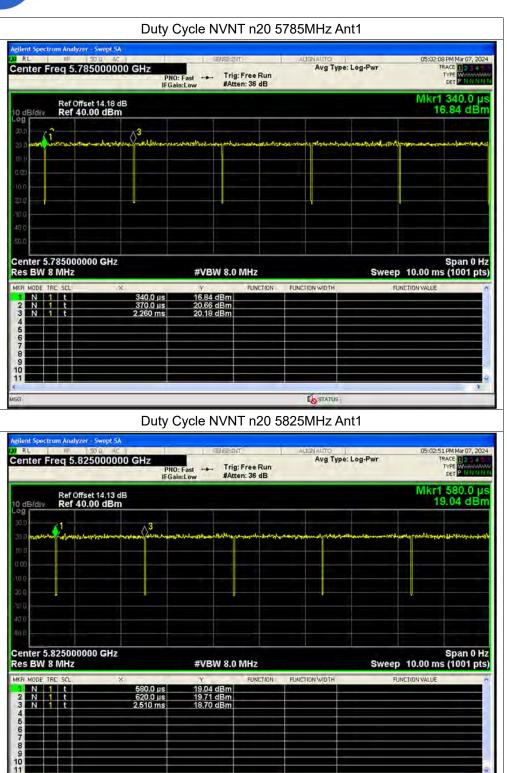
Center 5.745000000 GHz Res BW 8 MHz

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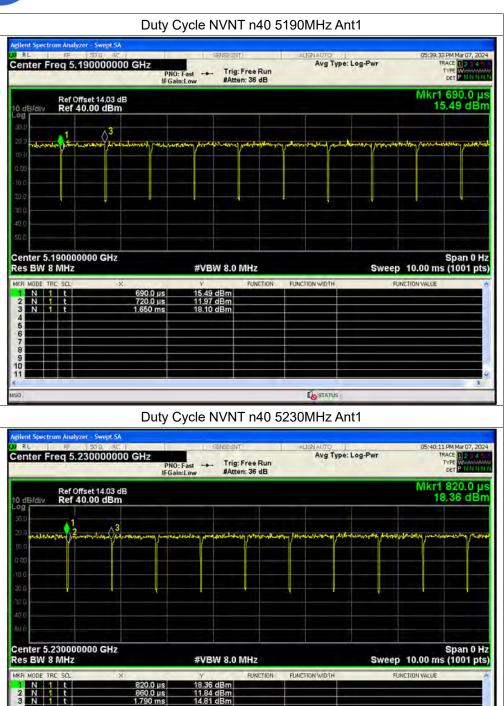


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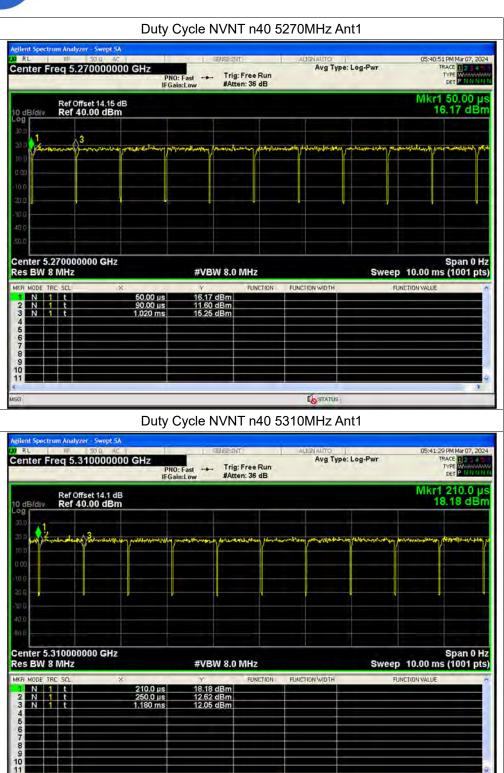
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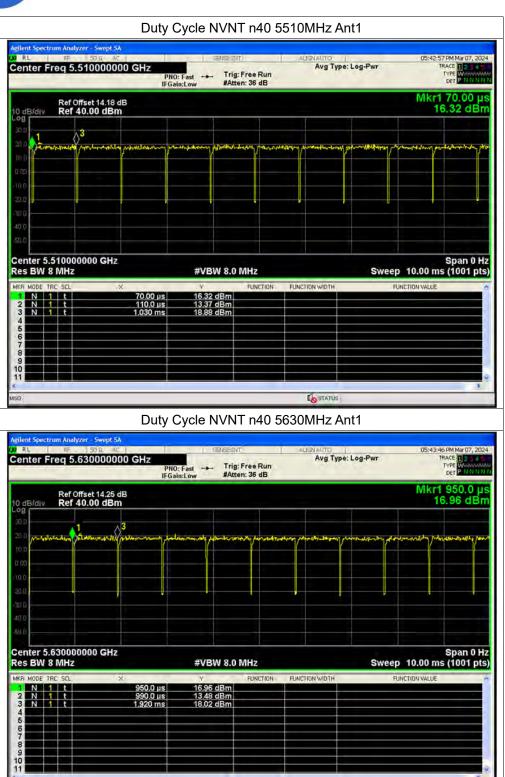






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gilent Spectrum Analyzer -		Cycle NVNT n40		
enter Freq 5.710	0000000 GHz	SENSEINT Trig: Free Run in:Low #Atten: 36 dB	ALIGNAUTO Avg Type: Log-Pwr	05:44:34 PM Mar 07, 202 TRACE 2 2 3 4 TYPE WHINN DET P N N N N
Ref Offset 0 dB/div Ref 40.0	t 14.28 dB			Mkr1 80.00 µs 15.63 dBn
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enter 5.71000000 es BW 8 MHz	0 GHz	#VBW 8.0 MHz	Sw	Span 0 H; eep 10.00 ms (1001 pts
IKR MODE TRC SCL	× 80.00 µs	Y FUNCTION 15.63 dBm	FUNCTION WIDTH	FUNCTION VALUE
2 N 1 t 3 N 1 t	120.0 µs 1.040 ms	13.72 dBm 17.38 dBm		
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G			STATUS	
	Duty C	Cycle NVNT n40	5755MHz Ant1	
illost Sportman And one	0 R AC	SENSE(INT	ALIGNAUTO Avg Type: Log-Pwr	05:45:47 PM Mar 07, 202- TRACE
RL RF 3		Fast Trig: Free Run	Avg type. Log-Pwi	TYPE Wenter
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Ref Offset	IFGa t 14.15 dB	in:Low #Atten: 36 dB		Mkr1 80.00 µs 15.87 dBn
Ref Offset	IFGa t 14.15 dB	in:Low #Atten: 35 dB		Mkr1 80.00 µs
Rt RF 15 enter Freq 5.755 O dB/div Ref 40.0	IFGa t 14.15 dB 00 dBm		ennesses personale march and	Mkr1 80.00 µs
Rt RF 15 enter Freq 5.755 OdB/div Ref 40.0	IFGa t 14.15 dB 00 dBm		an man an a	Mkr1 80.00 µs 15.87 dBn
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Ref Offset 0 dB/div Ref 40.0 0	IFGa			Mkr1 80.00 µs 15.87 dBn

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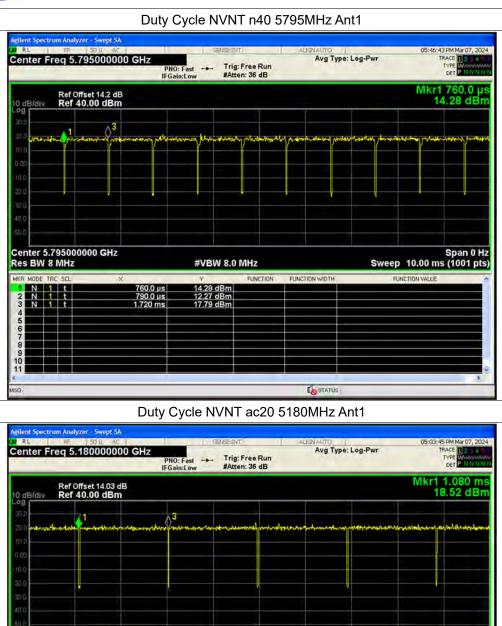


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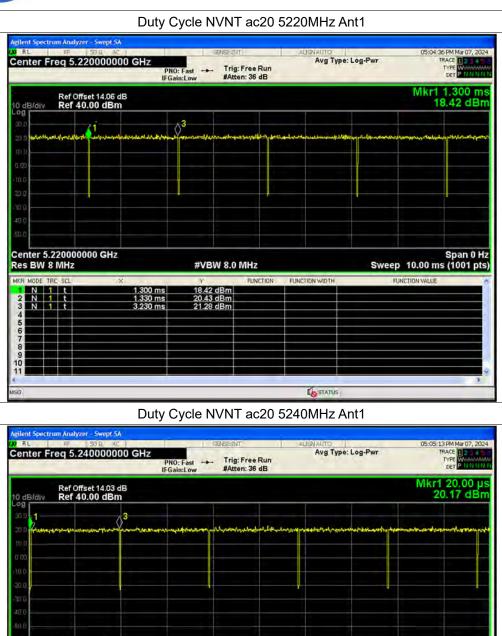


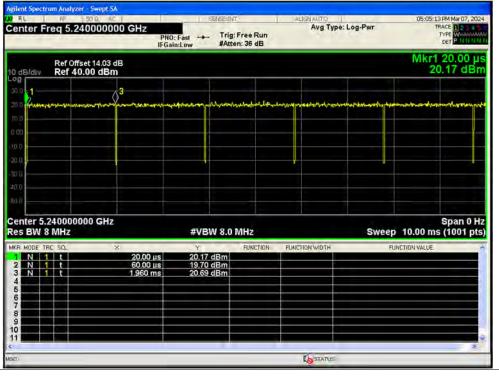
RL RF 30 9 40		SENSE:INT	ALIGN AUTO	05:03:45 PM Mar 07, 20
enter Freq 5.1800000	00 GHz PNO: Fast ↔ IFGain:Low		Avg Type: Log-Pwr	TRACE
Ref Offset 14.03 of Biddy Ref 40.00 dBn				Mkr1 1.080 m 18.52 dBi
ag DD DD maximuthe adabas maniantroide		an ghin shearna an gin ging a ging a	en ne general and the second	Versetindent of participation
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enter 5.180000000 GHz es BW 8 MHz		3W 8.0 MHz	Swee	Span 0 F p 10.00 ms (1001 pt
KR MODE TRC SCL 1 N 1 t 2 N 1 t 3 N 1 t 4	1,120 ms 20.2	FUNCTION 2 dBm 0 dBm 8 dBm	FUNCTION WIDTH	FUNCTION VALUE

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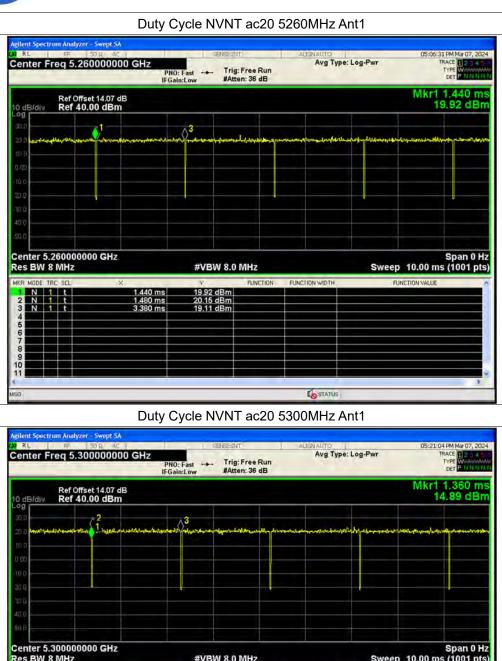


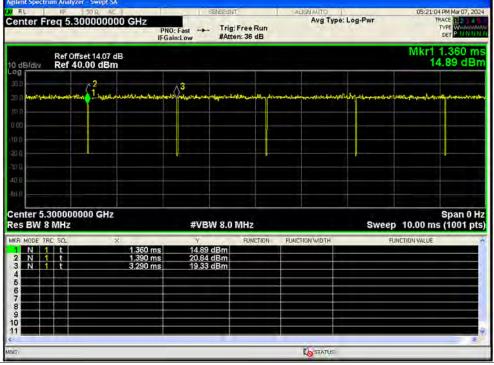


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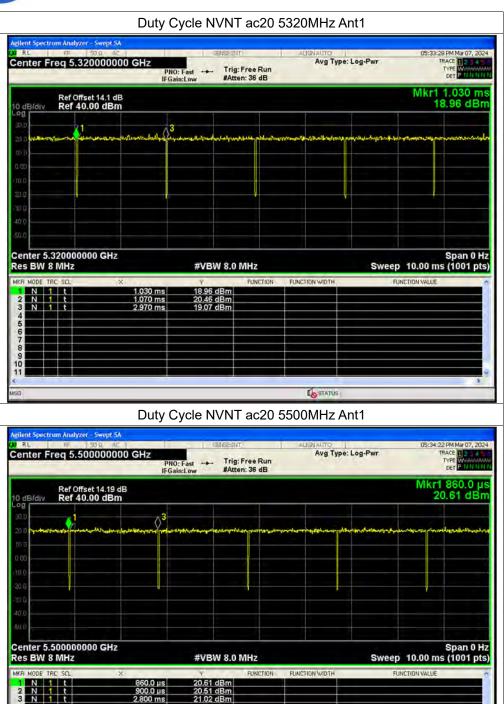




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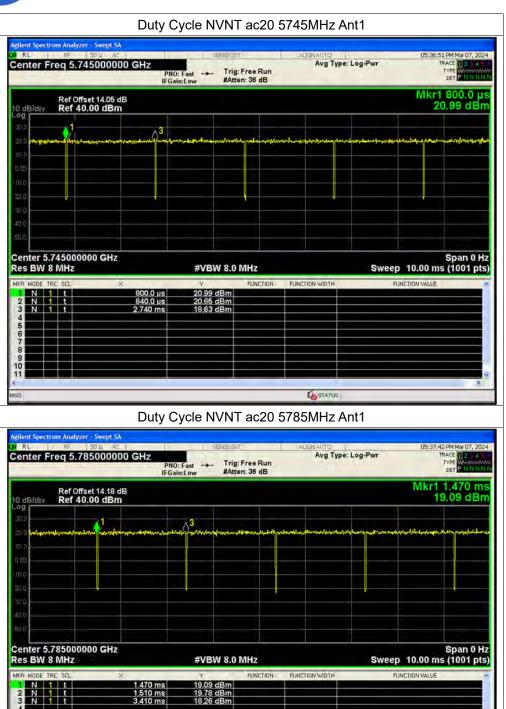
	-	Cycle NVNT a	20 5600MHz A	nt1	
gilent Spectrum Analyzer RL IIF	50 Q AC	SENSEIINT	ALIGNAUTO	Las Dur	05:35:11 PM Mar 07, 2024
enter Freq 5.60	PI	NO: Fast Trig: Free Sain:Low #Atten: 38		Logerwi	TRACE 23450 TYPE WOMMENT
Ref Offso 0 dB/div Ref 40.	et 14.32 dB 00 dBm			1	Vkr1 1.560 ms 20.35 dBm
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enter 5.6000000 es BW 8 MHz	00 GHz	#VBW 8.0 MH	2	Sweep 10	Span 0 Hz 0.00 ms (1001 pts)
KR MODE TRC SCL	× 1.560 ms	Y FU 20.35 dBm	NETION FUNCTION WIDTH	FUNCTIO	N VALUE
2 N 1 t 3 N 1 t	1.590 ms 3.490 ms	19.76 dBm 20.81 dBm			
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G			STATUS		1
			~		
	Duty	Cycle NIVNT a	~20 5720MHz A	nt1	
ilent Spectrum Analyzer	-	Cycle NVNT a	20 5720MHz A	nt1	
RL RF	- Swept SA 30 92 AC 00000000 GHz	SENSEIINT	ALIGNAUTO Avg Type		05:35:50 PM Mar 07, 2024
RL RF	- Swept SA 30 9: AC 00000000 GHz Pl	_	ALIGNALITO Avg Type Run	: Log-Pwr	
RL IF enter Freq 5.72 Ref Offso dB/div Ref 40	- Swept SA 50 92 AC 1 00000000 GHz P/ IF0 et 14.25 dB	10: Fast Trig: Free	ALIGNALITO Avg Type Run	: Log-Pwr	TRACE
RL RF enter Freq 5.72 Ref Offs 0 dB/dly Ref 40.	- Swept SA 300, AC 0000000 GHz PI IFC et 14.26 dB 00 dBm	10: Fast Trig: Free	ALIGNALITO Avg Type Run	: Log-Pwr	TRACE 12 440 TYPE WEATHING DET PINNINN Mikr1 220.0 µs
RL RF Offse enter Freq 5.72 Ref Offse dB/dly Ref 40.	- Swept SA 50 92 AC 1 00000000 GHz P/ IF0 et 14.25 dB	10: Fast Trig: Free	ALIGNALITO Avg Type Run	: Log-Pwr	TRACE 12 440 TYPE WEATHING DET PINNINN Mikr1 220.0 µs
RL RF enter Freq 5.72 Ref Offsd D dB/div Ref 40. Ref 200 Ref 40. Ref 40.	- Swept SA 300, AC 0000000 GHz PI IFC et 14.26 dB 00 dBm	10: Fast Trig: Free	ALIGNALITO Avg Type Run	: Log-Pwr	TRACE 12 440 TYPE WEATHING DET PINNINN Mikr1 220.0 µs
RL RF Offse and B/div Ref Offse a B/div Ref 40.	- Swept SA 300, AC 0000000 GHz PI IFC et 14.26 dB 00 dBm	10: Fast Trig: Free	ALIGNALITO Avg Type Run	: Log-Pwr	TRACE 12 440 TYPE WEATHING DET PINNINN Mikr1 220.0 µs
Rt nF enter Freq 5.72 Ref offs: 0 dB/div Ref 40.	- Swept SA 300, AC 0000000 GHz PI IFC et 14.26 dB 00 dBm	10: Fast Trig: Free	ALIGNALITO Avg Type Run	: Log-Pwr	TRACE 12 440 TYPE WEATHING DET PINNINN Mikr1 220.0 µs
Rt nF enter Freq 5.72 D dB/div Ref 40. 20 D 1 Ref 0ffs: 20 D 1 Ref 40. 20	- Swept SA 300, AC 0000000 GHz PI IFC et 14.26 dB 00 dBm	10: Fast Trig: Free	ALIGNALITO Avg Type Run	: Log-Pwr	TRACE 12 440 TYPE WEATHING DET PINNINN Mikr1 220.0 µs
Rt Ref Offso od B/div Ref 40.	- Swept SA 300, AC 0000000 GHz PI IFC et 14.26 dB 00 dBm	10: Fast Trig: Free	ALIGNALITO Avg Type Run	: Log-Pwr	TRACE 12 440 TYPE WEATHING DET PINNINN Mikr1 220.0 µs
Rt Ref Offs. o dB/div Ref 40.	- Swept SA 300, AC 0000000 GHz Pr IFC et 14.26 dB 00 dBm	NO: Fast Trig: Free Jain:Low #Atten: 38	ALEXAUTO Avg Type dB		Mkr1 220.0 µs 21.43 dBm
Rt offso enter Freq 5.72 Ref offso od B/div Ref 40.	Swept SA 302 AC 0000000 GHz Pi IFC et 14.26 dB 00 dBm 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5	VO: Fast ain:1.ow Trig: Free #Atten: 36	ALEXAUTO Avg Type dB		Mkr1 220.0 µs 21.43 dBm Span 0 Hz .00 ms (1001 pts)
Rt nF Freq 5.72	Swept SA 302 AC 10000000 GHz Pr IFC et 14.26 dB 00 dBm 00 dBm 00 dBm 00 dBm 00 dBm 00 GHz 220.0 µs 260 0 µs	#VBW 8.0 MH: 21.43 dBm 20.36 dBm 20.36 dBm	AUGA AUTO Avg Type i dB	Log-Pwr	Mkr1 220.0 µs 21.43 dBm Span 0 Hz .00 ms (1001 pts)
Ref Offs. 0 dB/div Ref 40. 30 0 1 20 0 0 10 0 20	- Swept SA 300, AC 0000000 GHz Pic et 14.26 dB 00 dBm 3 3 00 dBm 00 GHz 220.0 µs	CENSENT Trig: Free #Atten: 36 #Atten: 36 #VBW 8.0 MH: Y FU 2143 dBm	AUGA AUTO Avg Type i dB	Log-Pwr	Mkr1 220.0 µs 21.43 dBm Span 0 Hz .00 ms (1001 pts)





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		ycle NVNT ac20) 5825MHz Ant1	
ilient Spectrum Analyzer RL RF enter Freq 5.825	50 R AC 50000000 GHz PNO	SENSHINT Fast ↔ Trig: Free Run n:Low #Atten: 36 dB	AUGNAUTO Avg Type: Log-Pwr	05:38:47 PM Mar 07, 2024 TRACE 2 3 4 TYPE W
Ref Offse	et 14.13 dB			Mkr1 40.00 µs 19.79 dBm
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enter 5.82500000 es BW 8 MHz	00 GHz	#VBW 8.0 MHz	Swee	Span 0 Hz p 10.00 ms (1001 pts
KR MODE TRC SCL	× 40.00 µs	Y FUNCTION 19.79 dBm	N FUNCTION WIDTH	FUNCTION VALUE
2 N 1 t 3 N 1 t	80.00 µs 1.980 ms	20.70 dBm 19.53 dBm		
7				
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iG.				1
942			TATING .	
	Duty C			
ilent Spectrum Analyzer -	-	ycle NVNT ac40		
RL RE S	- Swept SA 50 92 AC 00000000 GHz PN0	Fast → Trig:Free Run) 5190MHz Ant1	05:49:05 PM Mar 07, 202- TRACE 11 20 1 TYPE WWW
enter Freq 5.190 Ref Offse	Swept SA SOR AC DODODOO GHZ PNO IFGai	SENSE:INT) 5190MHz Ant1	TRACE 12 TYPE WE
enter Freq 5.190 Ref Offse dB/div Ref 40.0	Swept SA SOR AC DODODOO GHZ PNO IFGai	Fast → Trig:Free Run) 5190MHz Ant1	TRACE
RU RF Control	- Swept SA 50 Q AC 00000000 GHz PNO IFGai et 14.03 dB 00 dBm	SENEEIINT Fast → Trig: Free Run #Atten: 36 dB	AUGNAUTO Avg Type: Log-Pwr	Тексе Возна туре туре туре туре туре туре туре туре
RU RF Class	- Swept SA 50 Q AC 00000000 GHz PNO IFGai et 14.03 dB 00 dBm	Fast → Trig:Free Run) 5190MHz Ant1	Тексе Возна туре туре туре туре туре туре туре туре
RU RF C196 enter Freq 5.196 0 dB/dlv Ref 40.0 98 0 D Interfect way (6 12 194	- Swept SA 50 Q AC 00000000 GHz PNO IFGai et 14.03 dB 00 dBm	SENEEIINT Fast → Trig: Free Run #Atten: 36 dB	AUGNAUTO Avg Type: Log-Pwr	Тексе Возна туре туре туре туре туре туре туре туре
Rt RF 190 enter Freq 5.190 0 dB/dlv Ref 40.0 98 0 D dated w/ 1 194 0 db 1 194	- Swept SA 50 Q AC 00000000 GHz PNO IFGai et 14.03 dB 00 dBm	SENEEIINT Fast → Trig: Free Run #Atten: 36 dB	AUGNAUTO Avg Type: Log-Pwr	Тексе Возна туре туре туре туре туре туре туре туре
Rt I RF 15490 enter Freq 5.190 0 dB/dlv Ref 40.0 90 D Ref 40.0 91 D Ref 40.0 92 D Ref 40.0 93 D Ref 40.0 94 Ref 40.0 95 D Ref 40.0 96 Ref 40.0 97 D Ref 40.0 98 Re	- Swept SA 50 Q AC 00000000 GHz PNO IFGai et 14.03 dB 00 dBm	SENEEIINT Fast → Trig: Free Run #Atten: 36 dB	AUGNAUTO Avg Type: Log-Pwr	Тексе Возна туре туре туре туре туре туре туре туре
Rt RF 190 enter Freq 5.190 0 dB/dlv Ref 40.0 98 0 D D D D D D D D D D D D D D D D D D D	- Swept SA 50 Q AC 00000000 GHz PNO IFGai et 14.03 dB 00 dBm	SENEEIINT Fast → Trig: Free Run #Atten: 36 dB	AUGNAUTO Avg Type: Log-Pwr	Тексе Возна туре туре туре туре туре туре туре туре
Rt I RF 15 enter Freq 5.190 0 dB/dlv Ref 40.0 0	Swept SA 202 AC 20000000 GHz PNO IFGal et 14.03 dB 200 dBm 84 m 3 RMm 3 3 RMm 4 3 RMm 4 1 1 1 1 1 1 1 1 1 1 1 1 1	Fast Trig: Free Run #Atten: 36 dB	Avg Type: Log-Pwr	Mikri 850.0 µs 16.51 dBm
Rt I I I I I I I I I I I I I I I I I I I	- Swept SA 200 AC 00000000 GHz PNO IFGai 00 dBm Address of the second sec	Fast Trig: Free Run #Atten: 36 dB	Avg Type: Log-Pwr	Mkr1 850.0 µs 16.51 dBm
Rt I RF I S enter Freq 5.190 Ref Offse 0 dB/dlv Ref 40.0 0 dB/dlv R	Swept SA 200 AC 200 AC PNO IFGai 200 dBm 200 dBm 2	Fast Trig: Free Run #Atten: 36 dB #VBW 8.0 MHz Y FUNCTION 11.60 dBm	Avg Type: Log-Pwr	Mkr1 850.0 µs 16.51 dBm
Rt Ref Offse o dB/dlv Ref 40.0 0 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Swept SA 202 AC 20000000 GHz PNO IFGal et 14.03 dB 200 dBm PMm 3 3 PMm 3 14.03 dB 200 dBm PMM 4 8 200 dBm PNO FNO FNO FNO FNO FNO FNO FNO F	Fast Trig: Free Run #Atten: 36 dB	Avg Type: Log-Pwr	Mkr1 850.0 µs 16.51 dBm
Ref Offse 0 dB/div Ref Offse 0 dB/div Ref 40.0 0 g 1 1 1 1 1 1 1 1 1 1 1	Swept SA 200 AC 200 AC PNO IFGai 200 dBm 200 dBm 2	Fast Trig: Free Run #Atten: 36 dB #VBW 8.0 MHz Y FUNCTION 11.60 dBm	Avg Type: Log-Pwr	Mkr1 850.0 16.51 dE

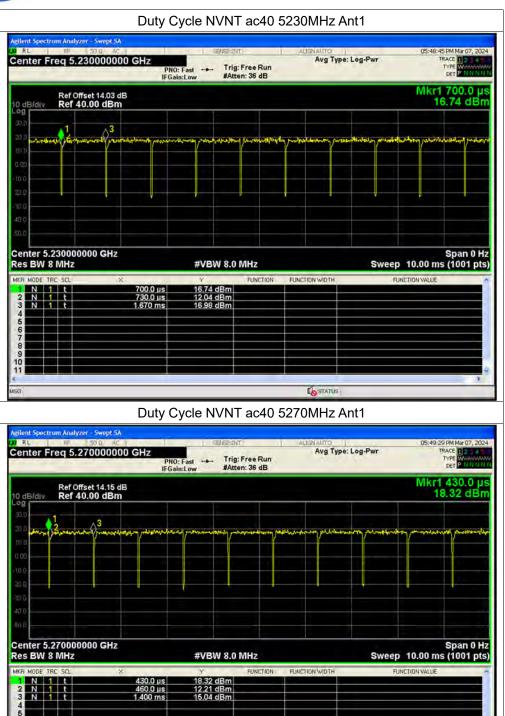
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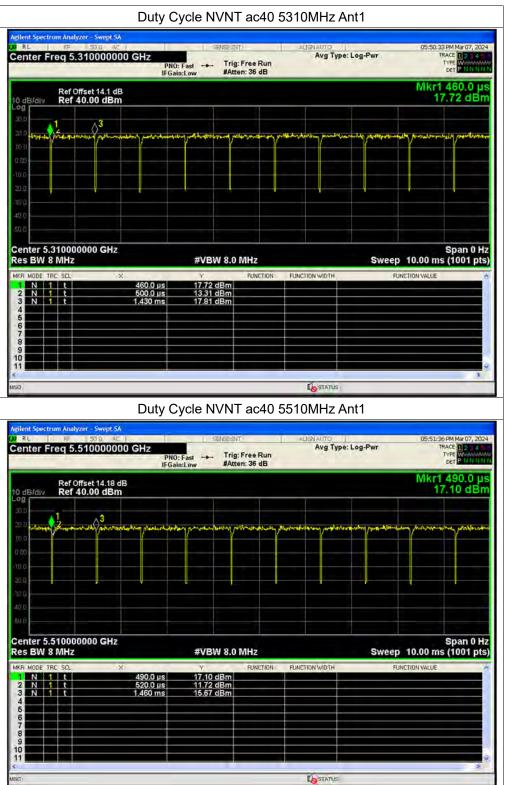


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Page 60 of 191



RL RF 500 enter Freq 5.6300	00000 GHz	: Fast Trig: Free Run #Atten: 36 dB	ALIGNAUTO Avg Type: Log-Pwr	05:52:53 PM Mar 07, 202 TRACE 2 2 3 4 TYPE WHAT DET P N N N A
Ref Offset 1 dB/div Ref 40.00				Mkr1 500.0 µ 15.30 dBr
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1.0			يسر وحم وحم	
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enter 5.630000000 s BW 8 MHz	GHz	#VBW 8.0 MHz	Sweep	Span 0 H 10.00 ms (1001 pts
R MODE TRC SCL N 1 t N 1 t	500.0 μs	Y FUNCTION 15.30 dBm 12.58 dBm	FUNCTION WIDTH FU	NCTION VALUE
N 1 t	1.470 ms	16.72 dBm		
6 				
			E STATUS I	
	Duty C	ycle NVNT ac40		1
ent Spectrum Analyzer - Sv RL 07 - 505	vept SA 2 AC	ycle NVNT ac40	5710MHz Ant1	05:54:05 PM Mar 07, 202
ent Spectrum Analyzer - Sv RL 07 - 505	vept SA 2 AC 000000 GHz PNO	-	5710MHz Ant1	05:54:05 PM M# 07, 202 TRACE 12 3 4 TYPE Weinter Der P NNNN
ent Spectrum Analyzer - Sv RL RF 500 enter Freq 5.7100 Ref Offset 1 dB/div Ref 40.00	vept SA 2 AC 000000 GHz PNO IFGai 4.28 dB	:Fast Trig:Free Run	5710MHz Ant1	05:54:05 PM Mar 07, 202 TRACE D
Rent Spectrum Analyzer - Sw RL NF 500 enter Freq 5.7100 Ref Offset 1 dB/div Ref 40.00	vept SA 2 AC ODODO GHZ PNO IFGai 4.28 dB dBm	Fast → Trig:FreeRun n:Low #Atten: 36 dB	5710MHz Ant1	05:54:05 PM M#107, 202 TRACE 02 2 TYPE WILLING CET P NINH Mkr1 60.00 µ 17.61 dBr
ent Spectrum Analyzer - Sv RL RF So enter Freq 5.7100 Ref Offset 1 dB/div Ref 40.00	vept SA 2 AC ODODO GHZ PNO IFGai 4.28 dB dBm	Fast → Trig:Free Run n:Low #Atten: 36 dB	5710MHz Ant1	05:54:05 РМ Маг07, 202 ТРАСЕ 112 3 1 9 ТУРЕ (УЧ- СЕГ Р NN 111 Mkr1 60.00 µ
ent Spectrum Analyzer - Sv RL RF 503 enter Freq 5.7100 Ref Offset 1 dB/div Ref 40.00	vept SA 2 AC ODODO GHZ PNO IFGai 4.28 dB dBm	Fast → Trig:Free Run n:Low #Atten: 36 dB	5710MHz Ant1	05:54:05 PM M#107, 202 TRACE 02 2 TYPE WILLING CET P NINH Mkr1 60.00 µ 17.61 dBr
Ref Offset 1 Ref Offset 1 dB/div Ref 40.00 Ref 40.00 Ref 40.00 Ref 40.00	vept SA 2 AC ODODO GHZ PNO IFGai 4.28 dB dBm	Fast → Trig:Free Run n:Low #Atten: 36 dB	5710MHz Ant1	05:54:05 PM M#107, 202 TRACE 02 2 TYPE WILLING CET P NINH Mkr1 60.00 µ 17.61 dBr
ent Spectrum Analyzer - Sv RL IF 503 Enter Freq 5.7100 Ref Offset 1 dB/div Ref 40.00	vept SA 2 AC ODODO GHZ PNO IFGai 4.28 dB dBm	Fast → Trig:Free Run n:Low #Atten: 36 dB	5710MHz Ant1	05:54:05 PM M#107, 202 TRACE 02 2 TYPE WILLING CET P NINH Mkr1 60.00 µ 17.61 dBr
ent Spectrum Analyzer - Sv RL RF 205 enter Freq 5.7100 Block Ref 40.00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	vept SA 2 AC 000000 GHz PRO IFGal 4.28 dB dBm	SENSEIINT : Fast Trig: Free Run #Atten: 36 dB	5710MHz Ant1	05:54:05 PM M# 07, 202 TRACE 12 2 1 Tree PM M# 07, 202 Tree PM M# 02, 202 Tree PM
ent Spectrum Analyzer - Sv RL IF 503 Enter Freq 5.7100 B B B B B B B B B B B B B B B B B B	vept SA 2 AC PRO PRO IFGal 4.28 dB dBm GHz	Fast Trig: Free Run #Atten: 36 dB	5710MHz Ant1	05:54:05 PM Mar 07, 202 TRACE 22 34 Tree Within Der P Within Mkr1 60.00 µ 17.61 dBr
Rent Spectrum Analyzer - Sw RL NF 500 enter Freq 5.7100 Ref Offset 1 dB/div Ref 40.00	vept SA 2 AC 000000 GHz PNO IFGal dBm GHz	Fast Trig: Free Run #Atten: 36 dB	5710MHz Ant1	05:54:05 PM Mar 07, 202 TRACE 12 3 4 Tree Within Mkr1 60.00 µ 17.61 dBr 10.00 ms (1001 pts



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		·	5755MHz Ant1	
jlent Spectrum Analyzer - Swept S RL RF 50 ຊ 4 enter Freq 5.7550000			ALIGNAUTO Avg Type: Log-Pwr	05:54:56 PM Mar 07, 2024 TRACE 0 2 3 4 5 TYPE WHAT
Ref Offset 14.15	dB	AL DW BARRAD		Mkr1 30.00 µs 6.64 dBm
o dB/div Ref 40.00 dBr	n			0.04 dBill
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10 0 10 0				
enter 5.755000000 GHz				Span 0 Hz
es BW 8 MHz		#VBW 8.0 MHz	and the first offer the	p 10.00 ms (1001 pts)
	× 30.00 µs	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
2 N 1 t 3 N 1 t	60.00 µs 1.000 ms	12.51 dBm 19.37 dBm		
8				
				8
a			STATUS	
	Duty C	ycle NVNT ac40	5795MHz Ant1	
jilent Spectrum Analyzer - Swept S RL RF 50 Q A	À			05:55:40 PM Mar 07, 2024
	A 00 GHz PNO:	Fast → Trig: Free Run	5795MHz Ant1	05:55:40 PM Mar 07, 2024 TRACE 22 1 TYPE W
RL RF 13092 Av enter Freq 5.7950000	A 00 GHz IFGair	Fast → Trig: Free Run	ALIGNAUTO	TRACE 2 2 TYPE W
RL RF 150 9. AN enter Freq 5.7950000 Ref Offset 14.2 d Ref 40.00 dBr	A DO GHz IFGair B	Fast → Trig: Free Run	ALIGNAUTO	05:55:40 РИ Маго7, 2024 ТКАСЕ 12.3 4 5 ТУРЕ ТИМИНИ Mkr1 920.0 µs 16.69.dBm
RL RF 1509. AN enter Freq 5.7950000 Ref Offset 14.2 d 0 dB/dly Ref 40.00 dBr	A DO GHz IFGair B	Fast → Trig: Free Run	ALIGNAUTO	TRACE 2 2 TYPE W
Ref Offset 14.2 d 0 dB/div Ref 40.00 dBr 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	A OO GHz PNO: IFGair B M	Fast → Trig: Free Run	ALIGNAUTO	TRACE 2 2 TYPE W
Ref Offset 14.2 d 0 dB/div 0 dB/di	A OO GHz PNO: IFGair B M	Fast → Trig: Free Run	ALIGNAUTO	TRACE 2 2 TYPE W
Ref Offset 14.2 d Ref Offset 14.2 d 0 dB/div Ref 40.00 dBr 0 0 0 1 0	A OO GHz PNO: IFGair B M	Fast → Trig: Free Run	ALIGNAUTO	TRACE 2 2 TYPE W
Ref Offset 14.2 d Ref Offset 14.2 d 0 dB/div Ref 40.00 dBr 90 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	A OO GHz PNO: IFGair B M	Fast → Trig: Free Run	ALIGNAUTO	TRACE 2 2 TYPE W
Ref Offset 14.2 d Ref Offset 14.2 d 0 dB/div Ref 40.00 dBr 90 10 10 10 10 10 10 10 10 10 1	A OO GHz PNO: IFGair B M	Fast → Trig: Free Run	ALIGNAUTO	TRACE 2 2 TYPE W
Ref Offset 14.2 d enter Freq 5.7950000 Ref Offset 14.2 d o dB/div Ref 40.00 dBr 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	A OO GHz IFGain B n 3 4 4 4 4 4 4 4 4 4 4 4 4 4	Fast - Trig: Free Run #Atten: 36 dB	AUGNALITO Avg Type: Log-Pwr	Mkr1 920.0 µs 16.69 dBm
Rt Ref Offset 14.2 d Ref Offset 14.2 d 0 dB/div Ref 40.00 dBr 0 dB/div 0	A OO GHz PNO: IFGair B m 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Fast Trig: Free Run #Atten: 36 dB	ALISVALITO Avg Type: Log-Pwr	Mkr1 920.0 µs ter PNNNN 16.69 dBm
RL RF 50.2. R enter Freq 5.7950000 Ref Offset 14.2 d 0 d5/div Ref 40.00 dBr 0 d5/div <	A 00 GHz PRO: IFGain B m 3 3 4 920.0 µs 920.0 µs	Fast Trig: Free Run #Atten: 36 dB #VBW 8.0 MHz Y FUNCTION 16.69 dBm	ALISVALITO Avg Type: Log-Pwr	Mkr1 920.0 µs 16.69 dBm
RL RF 50.2. Ref enter Freq 5.7950000 Ref Offset 14.2 d 0 dB/div Ref 40.00 dBr 0 dB/div	A OO GHz PNO: IFGain B m 3 A PNO: IFGain B m 3 A PNO: IFGain B m 3 A PNO: IFGain B M A PNO: IFGain A A A A A A A A A A A A A	Fast Trig: Free Run #Atten: 36 dB	ALISVALITO Avg Type: Log-Pwr	Mkr1 920.0 µs 16.69 dBm
RL RF D02. A enter Freq 5.7950000 Ref Offset 14.2 d 0 dB/dlv Ref 40.00 dBr	A 00 GHz PRO: IFGain B m 3 3 4 920.0 µs 920.0 µs	Fast Trig: Free Run #Atten: 36 dB #VBW 8.0 MHz Y FUNCTION 16.69 dBm	ALISVALITO Avg Type: Log-Pwr	Mkr1 920.0 µs 16.69 dBm

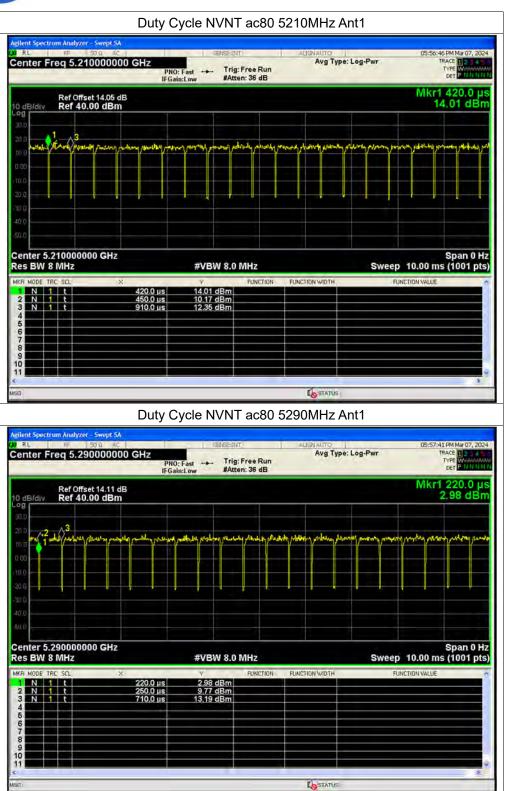


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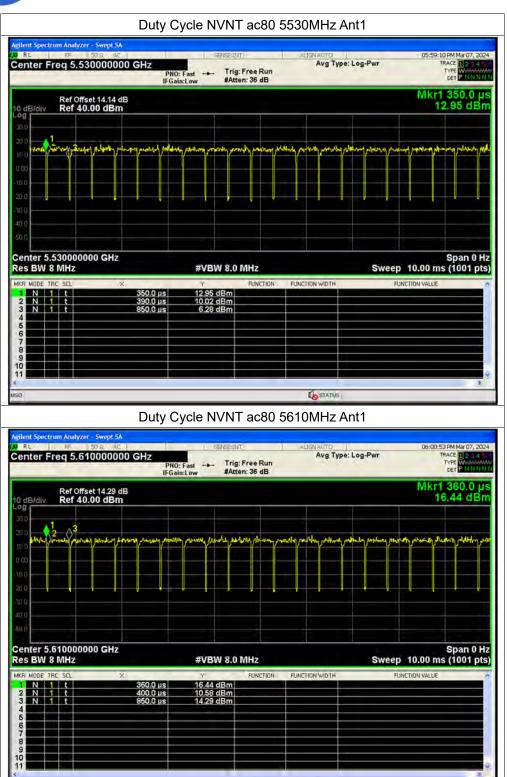






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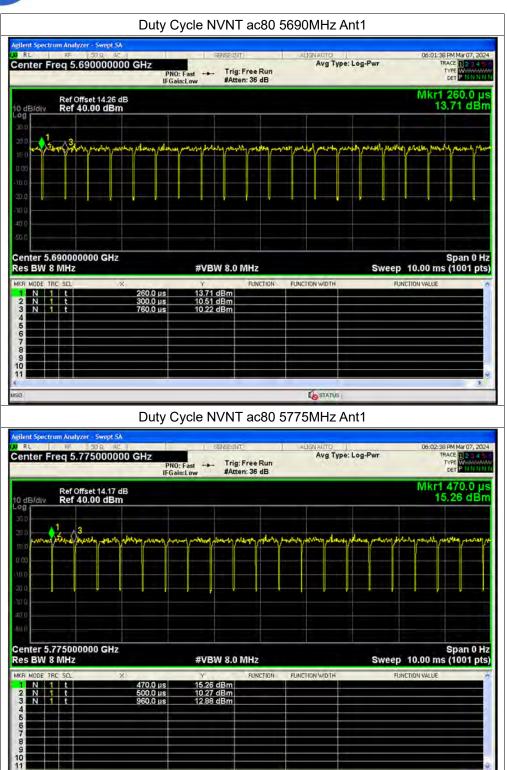






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A.2. Maximum Conducted Output Power

Condition	Mode	Frequency	Antenna	Total Conducted	Total Conducted	Limit	Verdict
Condition	mouo	(MHz)		Power (dBm)	Power (W)	(dBm)	Voraiot
NVNT	а	5180	Ant1	16.86	0.04853	24	Pass
NVNT	а	5220	Ant1	16.93	0.04932	24	Pass
NVNT	а	5240	Ant1	16.6	0.04571	24	Pass
NVNT	а	5260	Ant1	16.69	0.04667	24	Pass
NVNT	а	5300	Ant1	16.56	0.04529	24	Pass
NVNT	а	5320	Ant1	16.15	0.04121	24	Pass
NVNT	а	5500	Ant1	17.13	0.05164	24	Pass
NVNT	а	5600	Ant1	17.76	0.0597	24	Pass
NVNT	а	5720	Ant1	17.29	0.05358	24	Pass
NVNT	а	5745	Ant1	17.14	0.05176	30	Pass
NVNT	а	5785	Ant1	17.13	0.05164	30	Pass
NVNT	а	5825	Ant1	17.21	0.0526	30	Pass
NVNT	n20	5180	Ant1	16.29	0.04256	24	Pass
NVNT	n20	5220	Ant1	16.34	0.04305	24	Pass
NVNT	n20	5240	Ant1	15.87	0.03864	24	Pass
NVNT	n20	5260	Ant1	16.13	0.04102	24	Pass
NVNT	n20	5300	Ant1	15.92	0.03908	24	Pass
NVNT	n20	5320	Ant1	15.52	0.03565	24	Pass
NVNT	n20	5500	Ant1	16.63	0.04603	24	Pass
NVNT	n20	5600	Ant1	17.07	0.05093	24	Pass
NVNT	n20	5720	Ant1	16.69	0.04667	24	Pass
NVNT	n20	5745	Ant1	16.49	0.04457	30	Pass
NVNT	n20	5785	Ant1	16.45	0.04416	30	Pass
NVNT	n20	5825	Ant1	16.53	0.04498	30	Pass
NVNT	n40	5190	Ant1	16.72	0.04699	24	Pass
NVNT	n40	5230	Ant1	16.59	0.0456	24	Pass
NVNT	n40	5270	Ant1	16.31	0.04276	24	Pass
NVNT	n40	5310	Ant1	16.13	0.04102	24	Pass
NVNT	n40	5510	Ant1	16.98	0.04989	24	Pass
NVNT	n40	5630	Ant1	17.52	0.05649	24	Pass
NVNT	n40	5710	Ant1	17.1	0.05129	24	Pass
NVNT	n40	5755	Ant1	17.03	0.05047	30	Pass
NVNT	n40	5795	Ant1	16.81	0.04797	30	Pass
NVNT	ac20	5180	Ant1	16.31	0.04276	24	Pass



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NVNT	ac20	5220	Ant1	16.71	0.04688	24	Pass
NVNT	ac20	5240	Ant1	16.33	0.04295	24	Pass
NVNT	ac20	5260	Ant1	16.49	0.04457	24	Pass
NVNT	ac20	5300	Ant1	16.35	0.04315	24	Pass
NVNT	ac20	5320	Ant1	15.95	0.03936	24	Pass
NVNT	ac20	5500	Ant1	16.89	0.04887	24	Pass
NVNT	ac20	5600	Ant1	17.49	0.0561	24	Pass
NVNT	ac20	5720	Ant1	17.1	0.05129	24	Pass
NVNT	ac20	5745	Ant1	16.97	0.04977	30	Pass
NVNT	ac20	5785	Ant1	16.93	0.04932	30	Pass
NVNT	ac20	5825	Ant1	17.05	0.0507	30	Pass
NVNT	ac40	5190	Ant1	16.67	0.04645	24	Pass
NVNT	ac40	5230	Ant1	16.54	0.04508	24	Pass
NVNT	ac40	5270	Ant1	16.26	0.04227	24	Pass
NVNT	ac40	5310	Ant1	16.15	0.04121	24	Pass
NVNT	ac40	5510	Ant1	16.99	0.05	24	Pass
NVNT	ac40	5630	Ant1	17.49	0.0561	24	Pass
NVNT	ac40	5710	Ant1	17.11	0.0514	24	Pass
NVNT	ac40	5755	Ant1	17.03	0.05047	30	Pass
NVNT	ac40	5795	Ant1	16.79	0.04775	30	Pass
NVNT	ac80	5210	Ant1	16.58	0.0455	24	Pass
NVNT	ac80	5290	Ant1	16.17	0.0414	24	Pass
NVNT	ac80	5530	Ant1	16.84	0.04831	24	Pass
NVNT	ac80	5610	Ant1	17.37	0.05458	24	Pass
NVNT	ac80	5690	Ant1	17.07	0.05093	24	Pass
NVNT	ac80	5775	Ant1	16.7	0.04677	30	Pass



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A.3. Emission Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	
NVNT	а	5180	Ant1	23.462	
NVNT	а	5220	Ant1	24.183	
NVNT	а	5240 Ant1		23.891	
NVNT	а	5260	Ant1	23.755	
NVNT	а	5300	Ant1	24.653	
NVNT	а	5320	Ant1	24.377	
NVNT	а	5500	Ant1	24.647	
NVNT	а	5600	Ant1	25.119	
NVNT	а	5720	Ant1	24.561	
NVNT	n20	5180	Ant1	25.461	
NVNT	n20	5220	Ant1	25.245	
NVNT	n20	5240	Ant1	25.062	
NVNT	n20	5260	Ant1	24.238	
NVNT	n20	5300	Ant1	25.943	
NVNT	n20	5320	Ant1	24.339	
NVNT	n20	5500	Ant1	23.953	
NVNT	n20	5600	Ant1	25.365	
NVNT	n20	5720	Ant1	25.338	
NVNT	n40	5190	Ant1	41.295	
NVNT	n40	5230	Ant1	41.484	
NVNT	n40	5270	Ant1	41.607	
NVNT	n40	5310	Ant1	41.317	
NVNT	n40	5510	Ant1	41.049	
NVNT	n40	5630	Ant1	41.533	
NVNT	n40	5710	Ant1	41.802	
NVNT	ac20	5180	Ant1	24.92	
NVNT	ac20	5220	Ant1	24.144	
NVNT	ac20	5240	Ant1	24.519	
NVNT	ac20	5260	Ant1	23.779	
NVNT	ac20	5300	Ant1	25.102	
NVNT	ac20	5320	Ant1	23.539	
NVNT	ac20	5500	Ant1	25.089	
NVNT	ac20	5600	Ant1	25.057	
NVNT	ac20	5720	Ant1	24.101	
NVNT	ac40	5190	Ant1	41.073	
NVNT	ac40	5230	Ant1	41.321	





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NVNT	ac40	5270	Ant1	41.803
NVNT	ac40	5310	Ant1	41.447
NVNT	ac40	5510	Ant1	41.236
NVNT	ac40	5630	Ant1	41.833
NVNT	ac40	5710	Ant1	41.951
NVNT	ac80	5210	Ant1	83.791
NVNT	ac80	5290	Ant1	84.932
NVNT	ac80	5530	Ant1	84.358
NVNT	ac80	5610	Ant1	84.713
NVNT	ac80	5690	Ant1	85.4





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Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	а	5745	Ant1	16.296	0.5	Pass
NVNT	а	5785	Ant1	16.016	0.5	Pass
NVNT	а	5825	Ant1	15.147	0.5	Pass
NVNT	n20	5745	Ant1	15.693	0.5	Pass
NVNT	n20	5785	Ant1	14.182	0.5	Pass
NVNT	n20	5825	Ant1	16.675	0.5	Pass
NVNT	n40	5755	Ant1	35.357	0.5	Pass
NVNT	n40	5795	Ant1	35.261	0.5	Pass
NVNT	ac20	5745	Ant1	16.346	0.5	Pass
NVNT	ac20	5785	Ant1	15.459	0.5	Pass
NVNT	ac20	5825	Ant1	17.271	0.5	Pass
NVNT	ac40	5755	Ant1	35.052	0.5	Pass
NVNT	ac40	5795	Ant1	35.651	0.5	Pass
NVNT	ac80	5775	Ant1	73.874	0.5	Pass





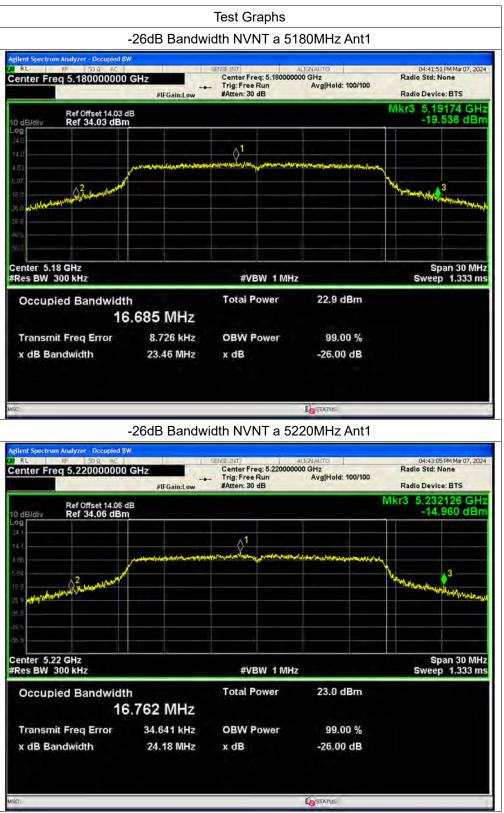
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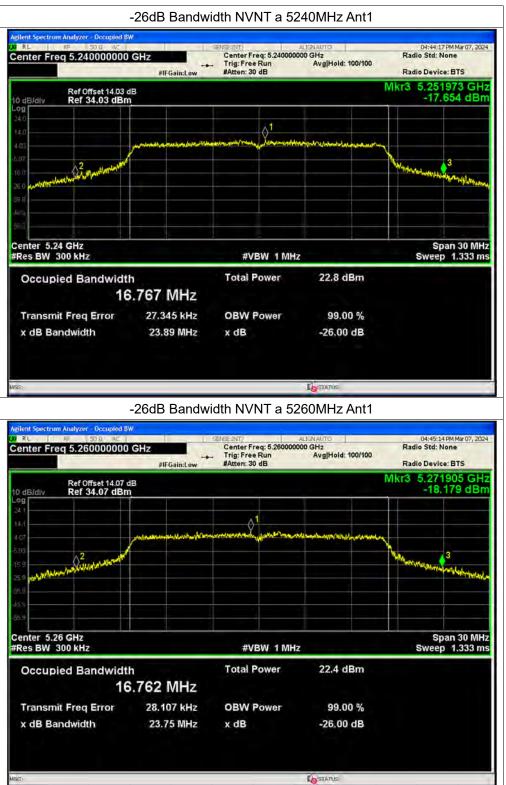




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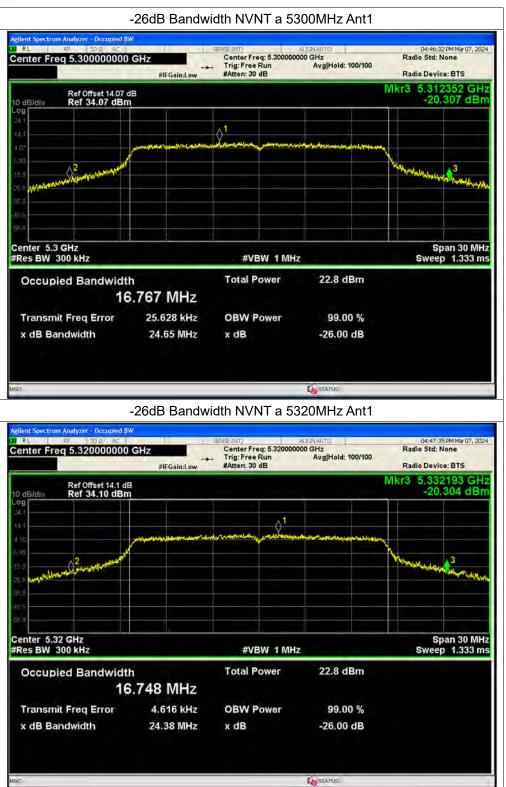






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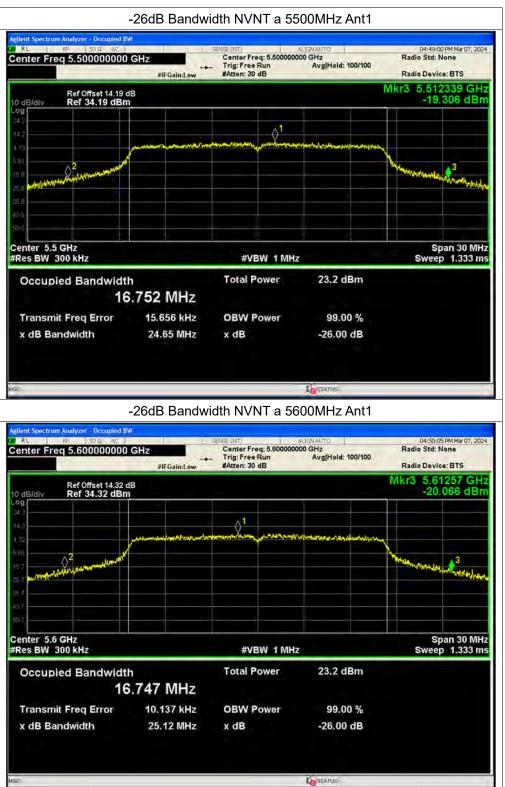






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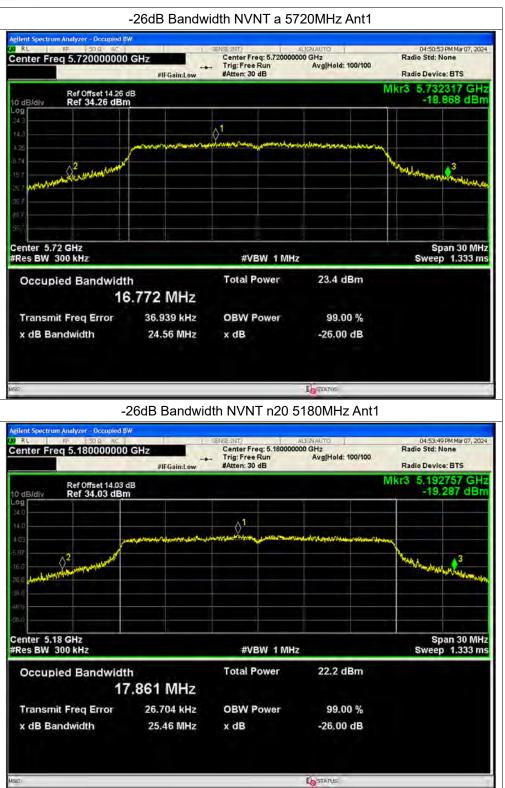




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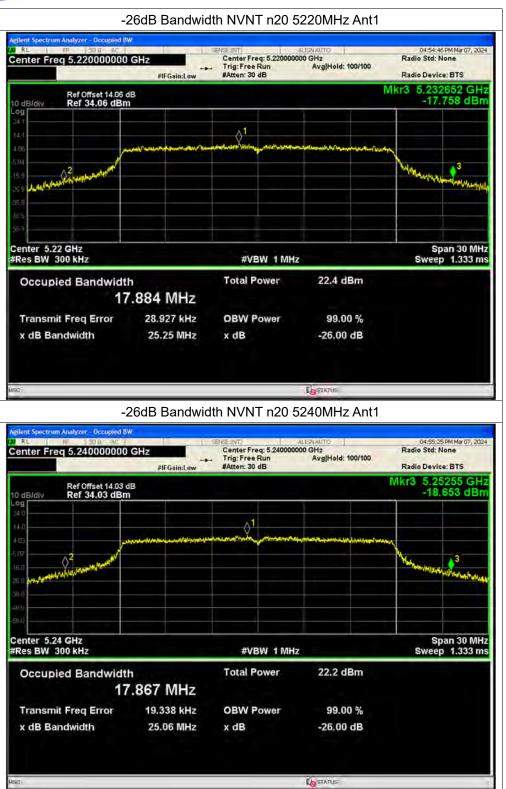
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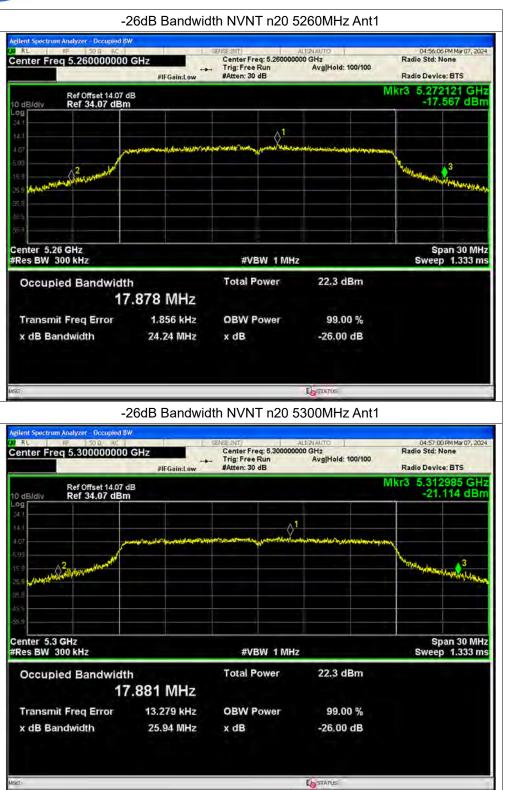
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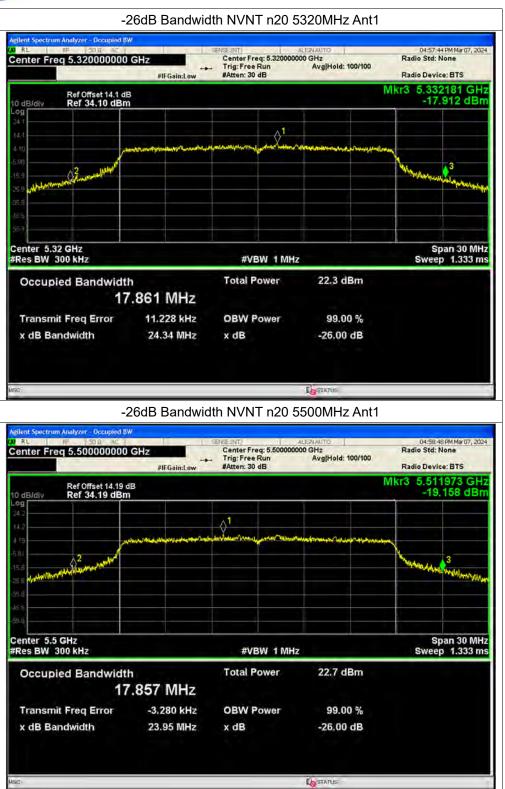




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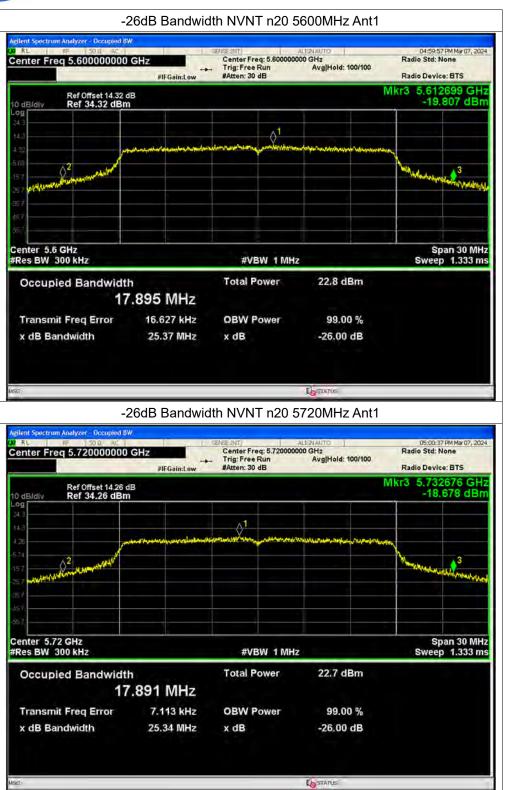
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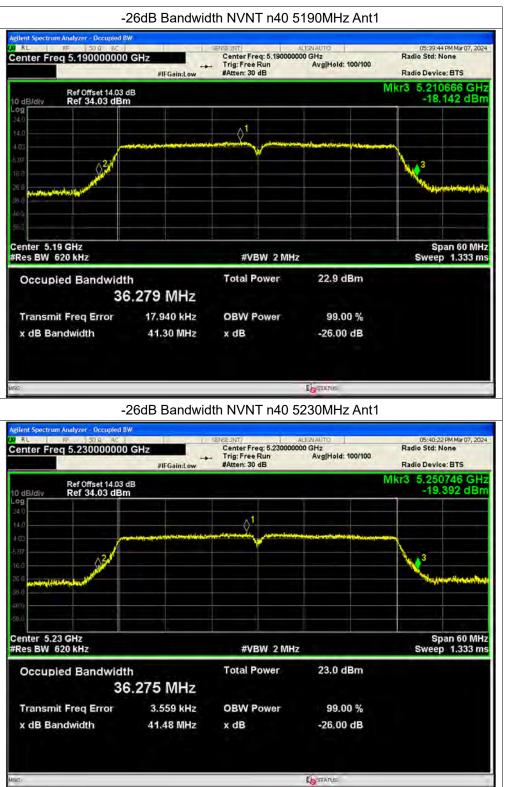




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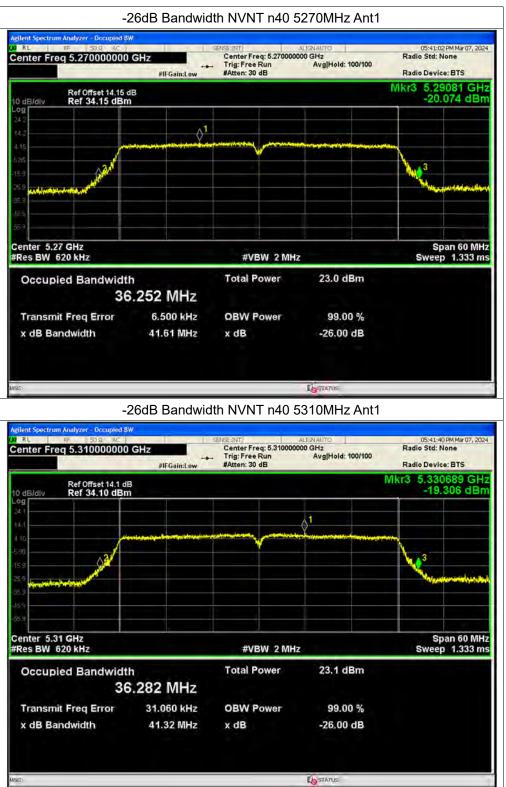




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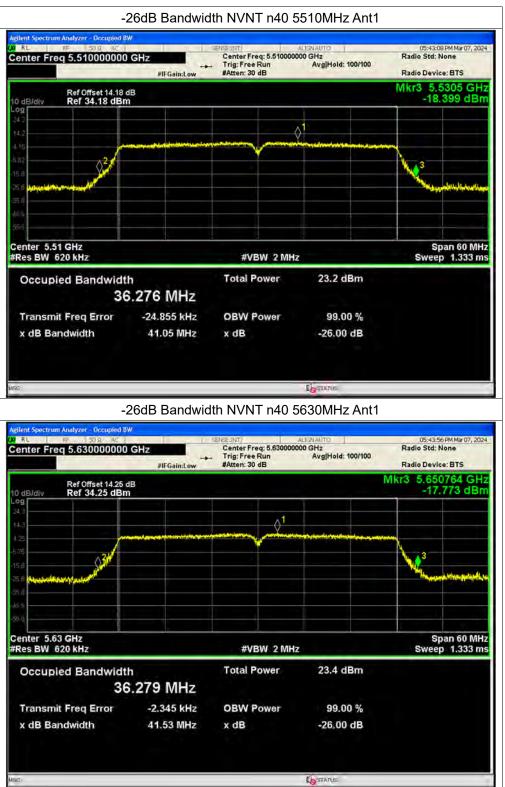




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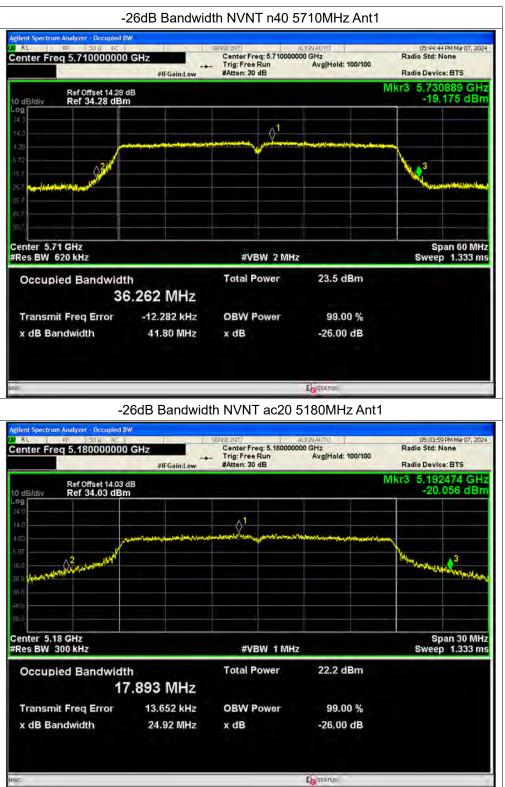




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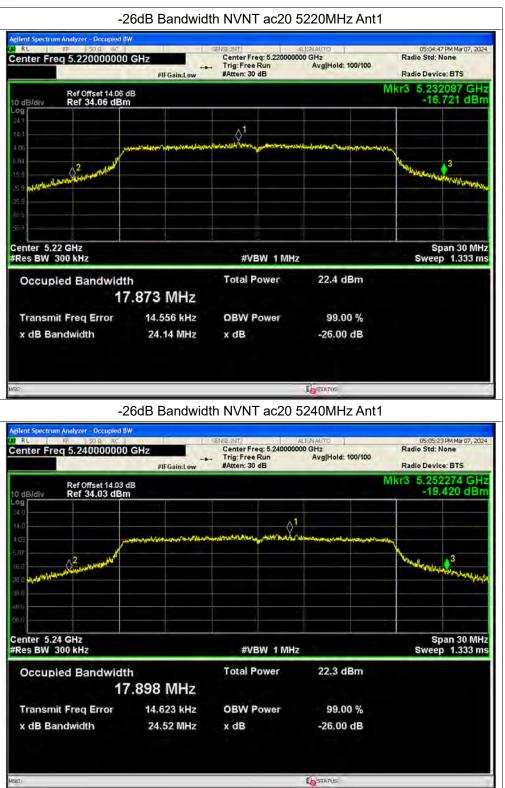




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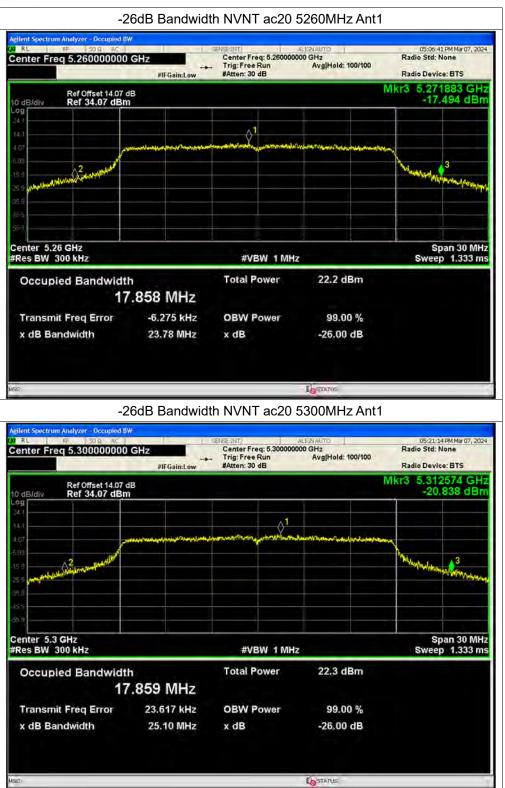




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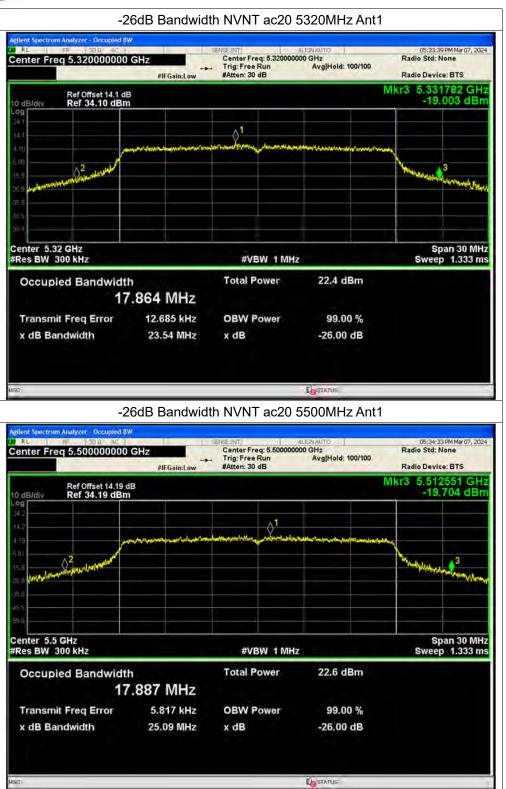




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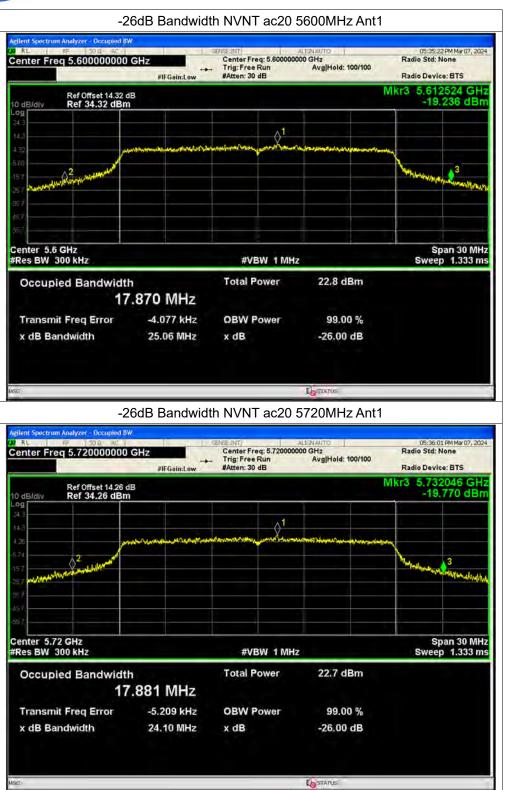






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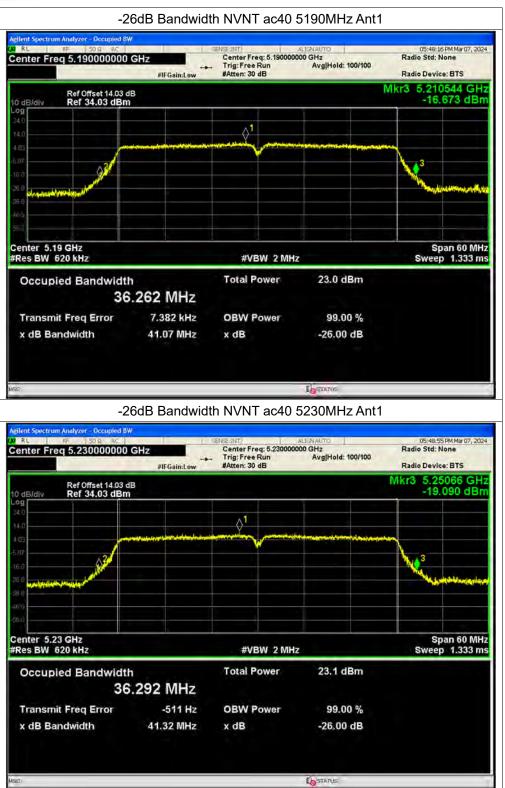




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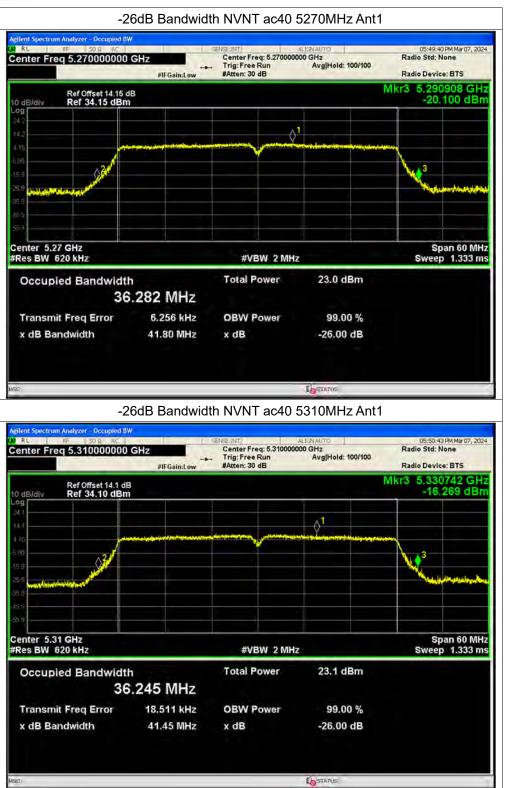
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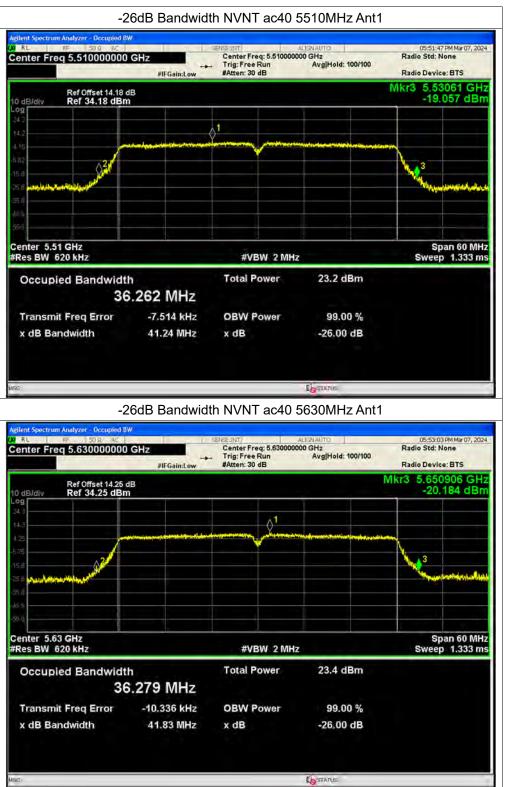


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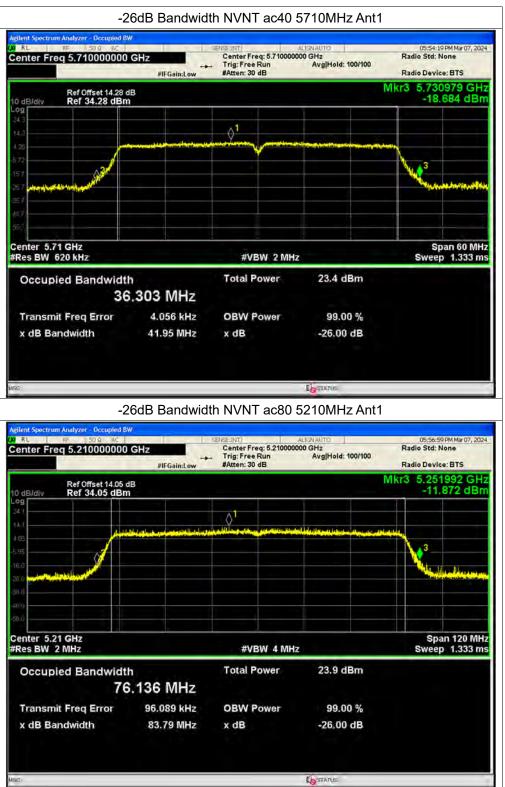
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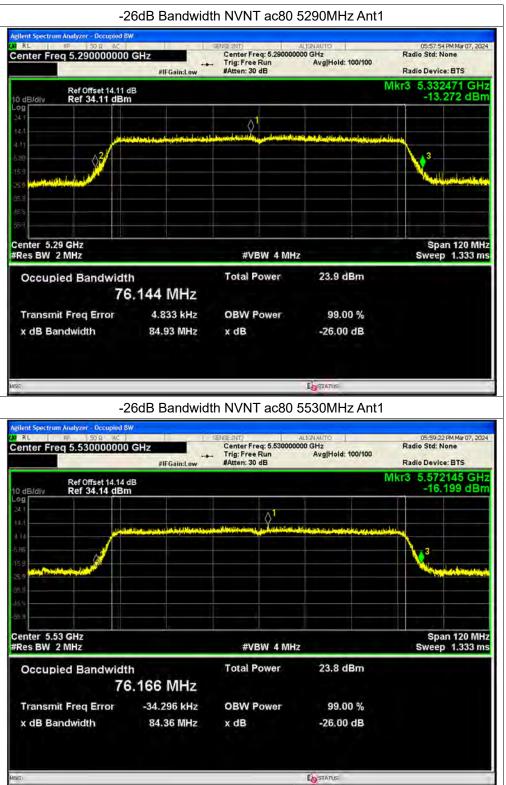




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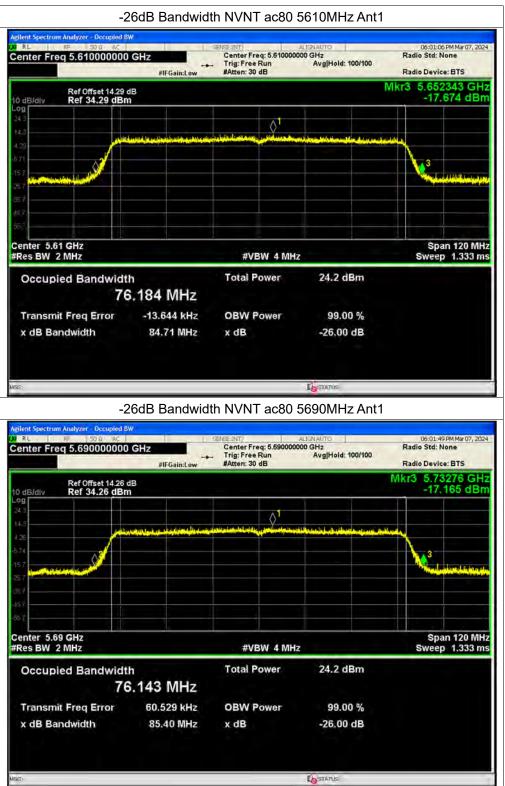






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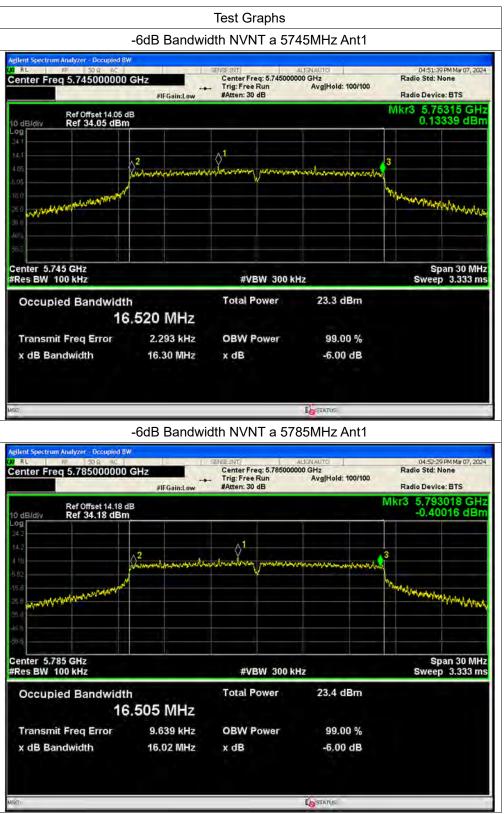






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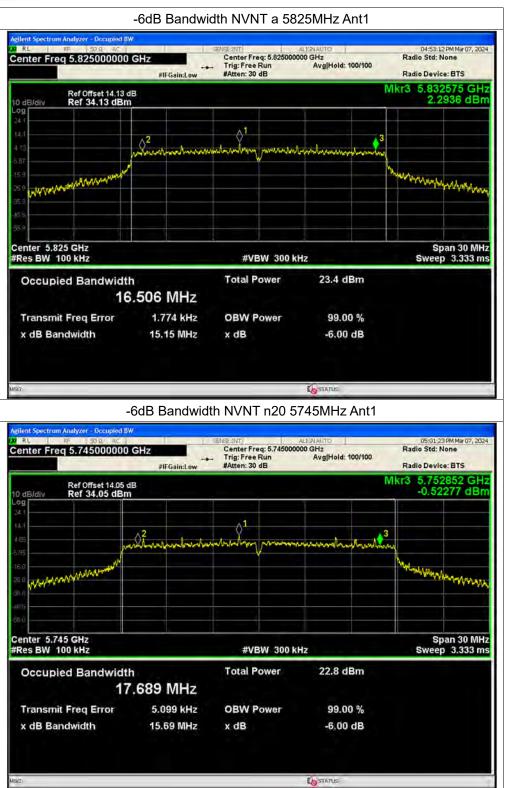






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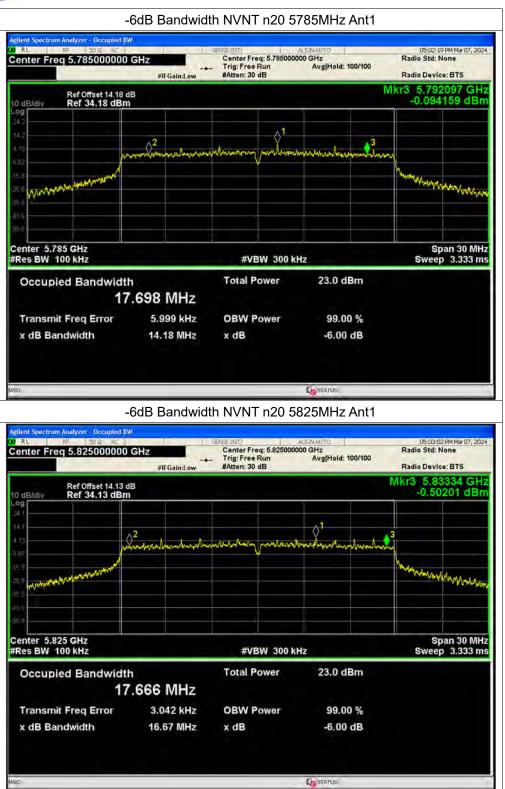






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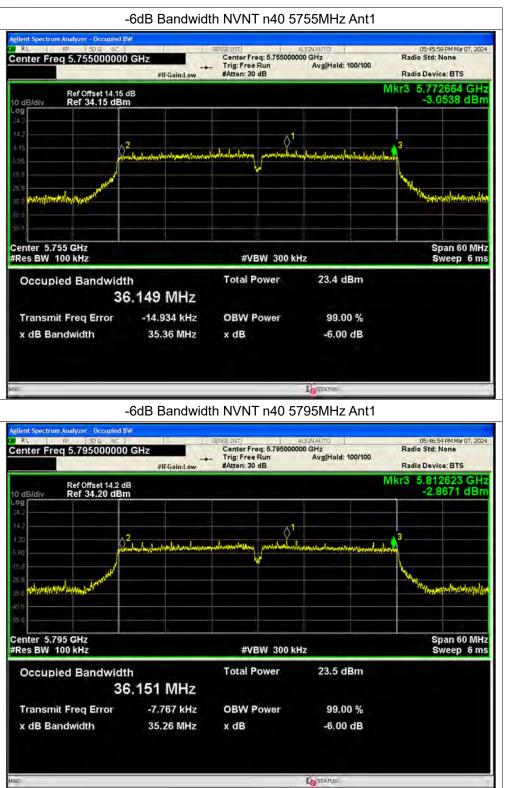




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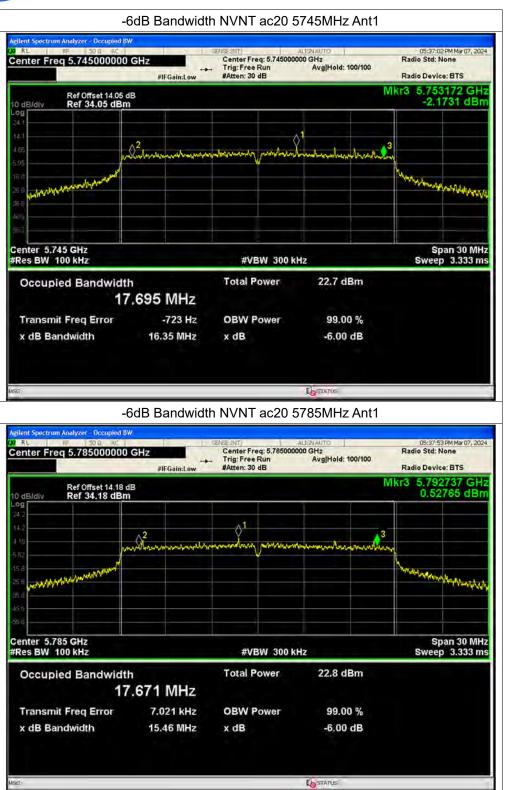






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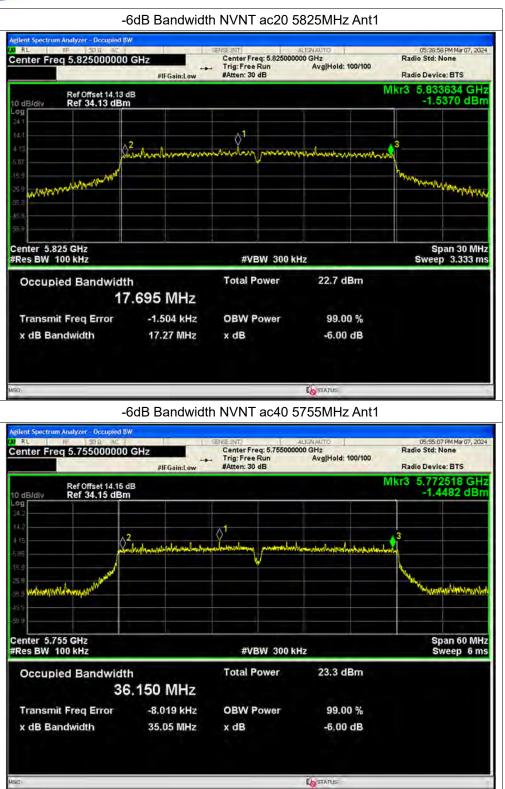






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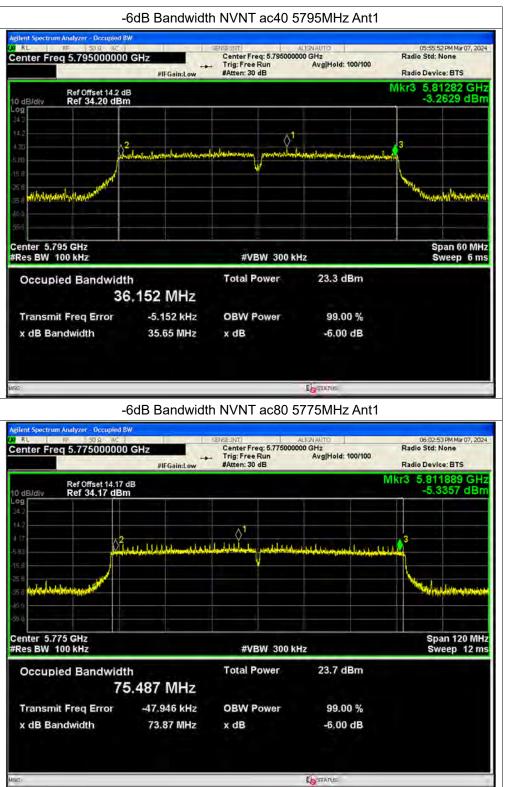




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A.4. Peak Power Spectral Density

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	а	5180	Ant1	6.42	0.06	6.48	11	Pass
NVNT	а	5220	Ant1	6.48	0.06	6.54	11	Pass
NVNT	а	5240	Ant1	6.36	0.08	6.44	11	Pass
NVNT	а	5260	Ant1	6.32	0.06	6.38	11	Pass
NVNT	а	5300	Ant1	6.38	0.08	6.46	11	Pass
NVNT	а	5320	Ant1	6.45	0.06	6.51	11	Pass
NVNT	а	5500	Ant1	6.8	0.06	6.86	11	Pass
NVNT	а	5600	Ant1	6.8	0.08	6.88	11	Pass
NVNT	а	5720	Ant1	6.81	0.08	6.89	11	Pass
NVNT	а	5745	Ant1	3.9	0.08	3.98	30	Pass
NVNT	а	5785	Ant1	4.12	0.08	4.2	30	Pass
NVNT	а	5825	Ant1	4.03	0.09	4.12	30	Pass
NVNT	n20	5180	Ant1	5.54	0.07	5.61	11	Pass
NVNT	n20	5220	Ant1	5.52	0.07	5.59	11	Pass
NVNT	n20	5240	Ant1	5.43	0.09	5.52	11	Pass
NVNT	n20	5260	Ant1	5.63	0.09	5.72	11	Pass
NVNT	n20	5300	Ant1	5.43	0.09	5.52	11	Pass
NVNT	n20	5320	Ant1	5.54	0.07	5.61	11	Pass
NVNT	n20	5500	Ant1	5.87	0.09	5.96	11	Pass
NVNT	n20	5600	Ant1	6.16	0.09	6.25	11	Pass
NVNT	n20	5720	Ant1	6.06	0.09	6.15	11	Pass
NVNT	n20	5745	Ant1	3.04	0.09	3.13	30	Pass
NVNT	n20	5785	Ant1	3.19	0.07	3.26	30	Pass
NVNT	n20	5825	Ant1	3.08	0.09	3.17	30	Pass
NVNT	n40	5190	Ant1	2.76	0.14	2.9	11	Pass
NVNT	n40	5230	Ant1	3	0.18	3.18	11	Pass
NVNT	n40	5270	Ant1	2.81	0.18	2.99	11	Pass
NVNT	n40	5310	Ant1	3.07	0.18	3.25	11	Pass
NVNT	n40	5510	Ant1	3.14	0.18	3.32	11	Pass
NVNT	n40	5630	Ant1	3.31	0.18	3.49	11	Pass
NVNT	n40	5710	Ant1	3.21	0.18	3.39	11	Pass
NVNT	n40	5755	Ant1	0.44	0.18	0.62	30	Pass
NVNT	n40	5795	Ant1	0.62	0.14	0.76	30	Pass
NVNT	ac20	5180	Ant1	5.37	0.09	5.46	11	Pass





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NVNT	ac20	5220	Ant1	5.61	0.07	5.68	11	Pass
NVNT	ac20	5240	Ant1	5.55	0.09	5.64	11	Pass
NVNT	ac20	5260	Ant1	5.42	0.09	5.51	11	Pass
NVNT	ac20	5300	Ant1	5.63	0.07	5.7	11	Pass
NVNT	ac20	5320	Ant1	5.58	0.09	5.67	11	Pass
NVNT	ac20	5500	Ant1	5.84	0.09	5.93	11	Pass
NVNT	ac20	5600	Ant1	5.92	0.07	5.99	11	Pass
NVNT	ac20	5720	Ant1	5.86	0.09	5.95	11	Pass
NVNT	ac20	5745	Ant1	2.83	0.09	2.92	30	Pass
NVNT	ac20	5785	Ant1	3.13	0.09	3.22	30	Pass
NVNT	ac20	5825	Ant1	2.99	0.09	3.08	30	Pass
NVNT	ac40	5190	Ant1	2.89	0.18	3.07	11	Pass
NVNT	ac40	5230	Ant1	2.91	0.14	3.05	11	Pass
NVNT	ac40	5270	Ant1	2.98	0.14	3.12	11	Pass
NVNT	ac40	5310	Ant1	2.89	0.18	3.07	11	Pass
NVNT	ac40	5510	Ant1	3.11	0.14	3.25	11	Pass
NVNT	ac40	5630	Ant1	3.23	0.14	3.37	11	Pass
NVNT	ac40	5710	Ant1	3.42	0.18	3.6	11	Pass
NVNT	ac40	5755	Ant1	0.36	0.14	0.5	30	Pass
NVNT	ac40	5795	Ant1	0.46	0.18	0.64	30	Pass
NVNT	ac80	5210	Ant1	-0.18	0.27	0.09	11	Pass
NVNT	ac80	5290	Ant1	-0.3	0.27	-0.03	11	Pass
NVNT	ac80	5530	Ant1	-0.5	0.36	-0.14	11	Pass
NVNT	ac80	5610	Ant1	0.2	0.37	0.57	11	Pass
NVNT	ac80	5690	Ant1	0.3	0.36	0.66	11	Pass
NVNT	ac80	5775	Ant1	-2.55	0.27	-2.28	30	Pass





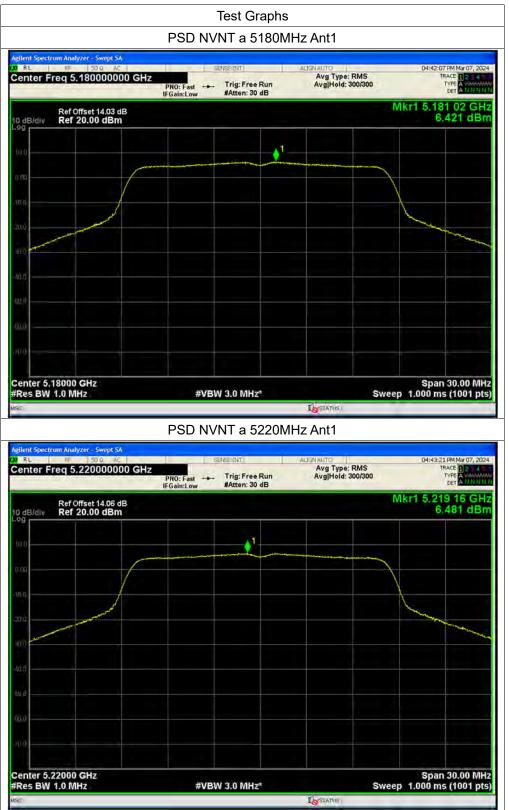
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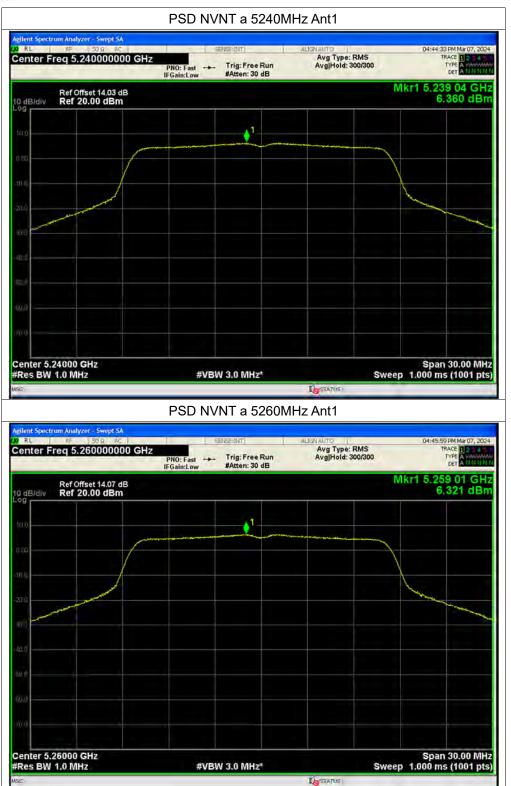






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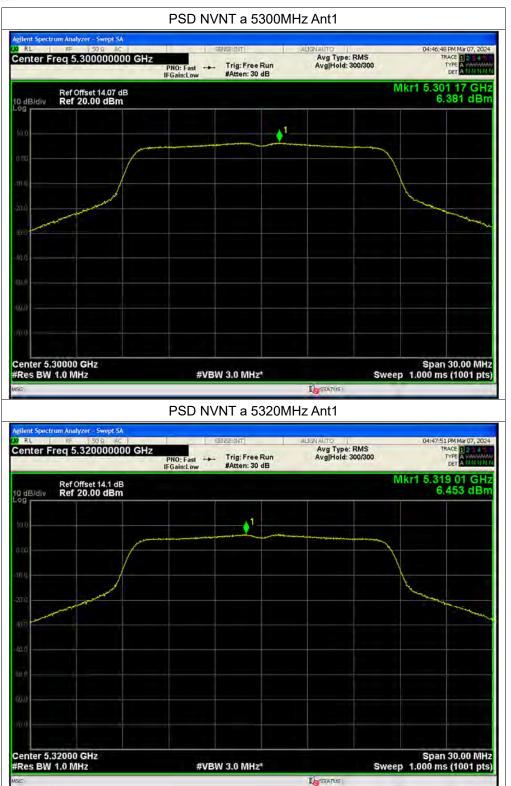




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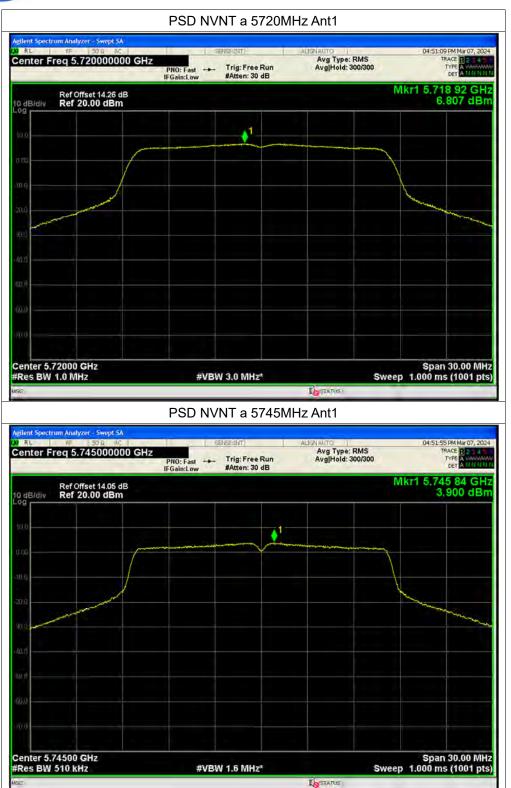


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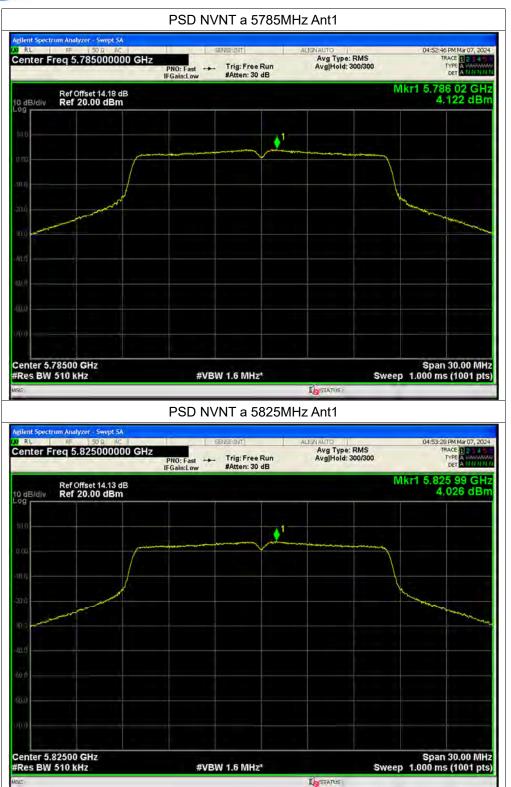
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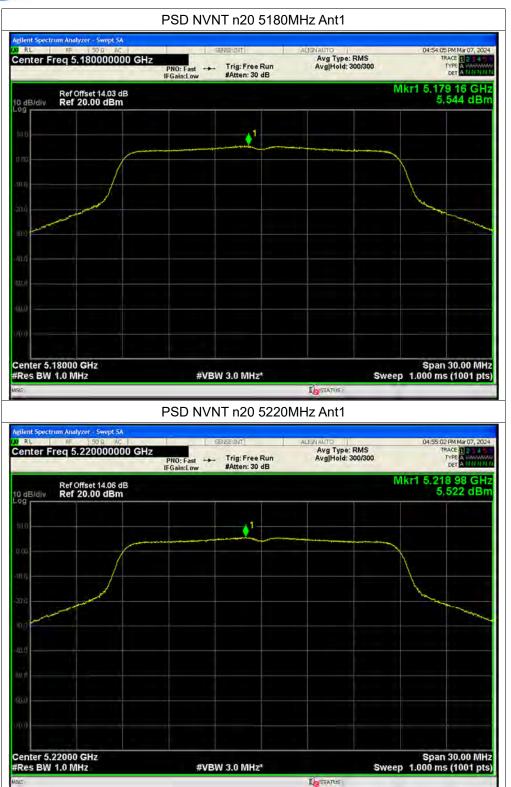


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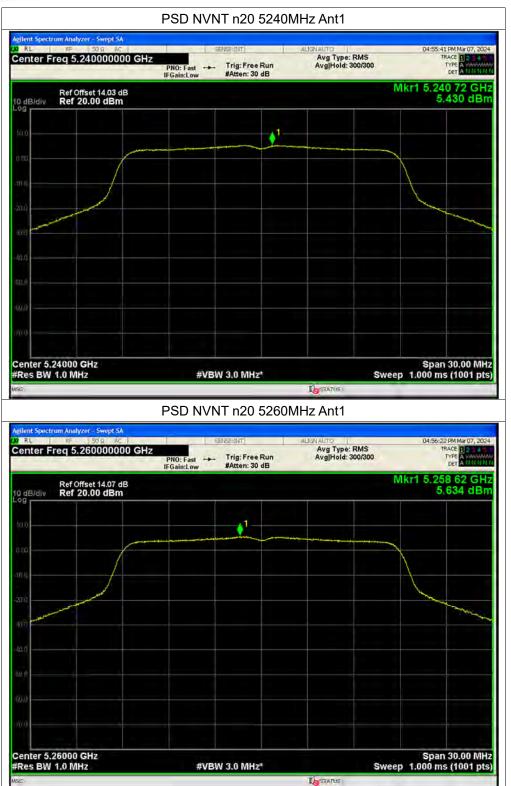


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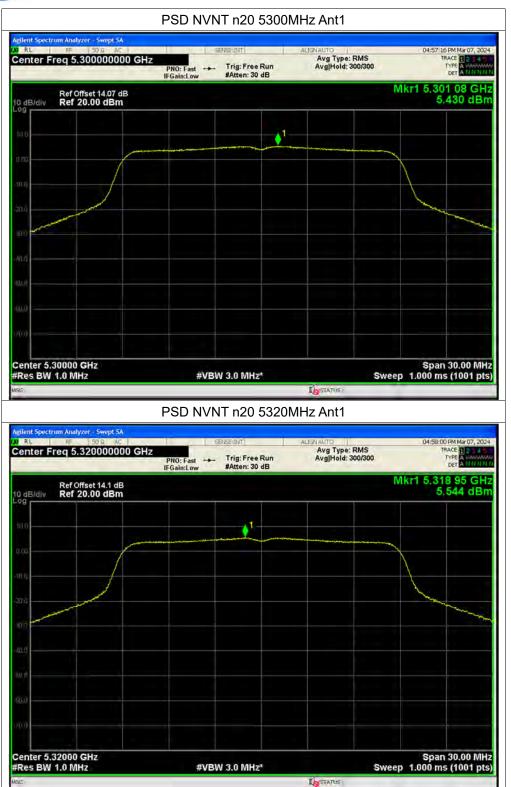




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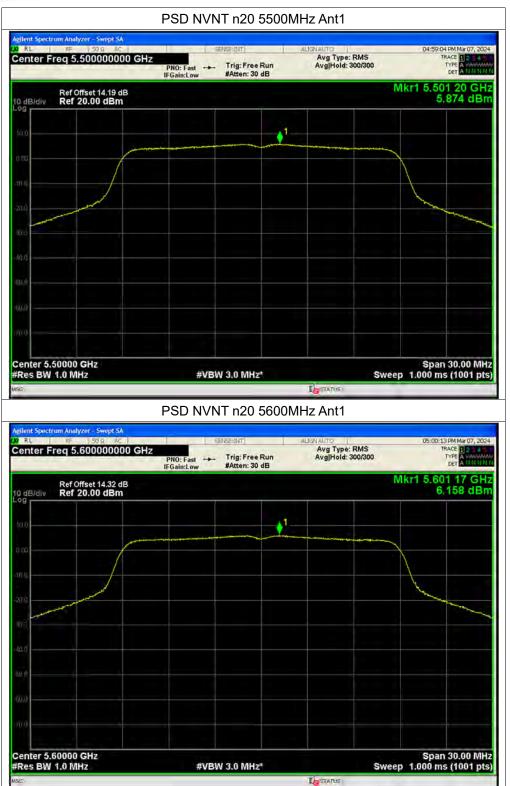






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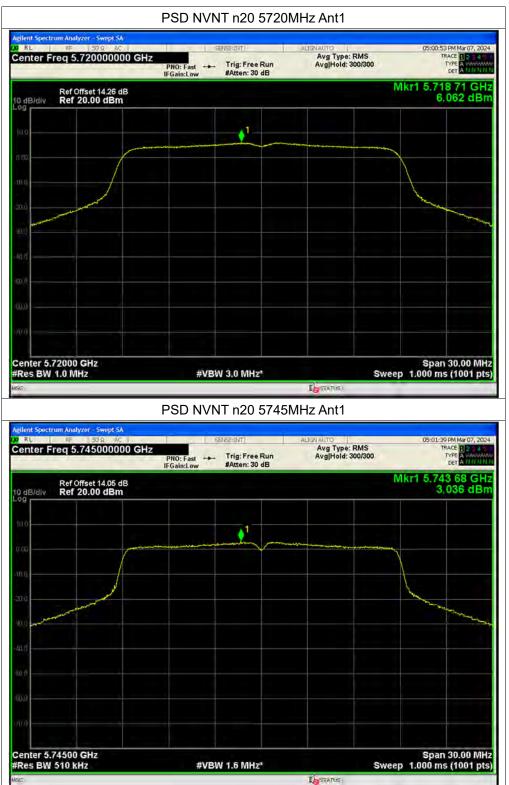




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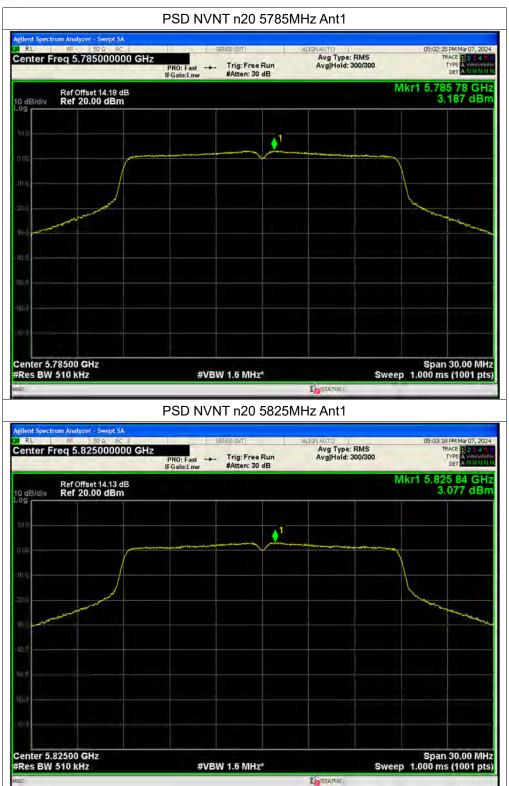


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