



REPORT No.: SZ22090321W02

TEST REPORT

APPLICANT : Justice Tech Solutions, LLC

PRODUCT NAME : Dock station

MODEL NAME : securebook 6DSW

BRAND NAME : Justice Tech Solutions

FCC ID : 2AS4KJTS-SEBOOK6DS

STANDARD(S) : 47 CFR Part 15 Subpart E

RECEIPT DATE : 2022-10-11

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Change History		
Version	Date	Reason for change
1.0	2022-11-30	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	Oct. 19, 2022	Su Xiaoxian	PASS	No deviation
3	15.407(a)	Maximum Conducted Output Power	Oct. 19, 2022	Su Xiaoxian	PASS	No deviation
4	15.407(a)(e)	Emission Bandwidth	Oct. 23, 2022	Su Xiaoxian	PASS	No deviation
5	15.407(a)	Peak Power Spectral Density	Oct. 23, 2022	Su Xiaoxian	PASS	No deviation
6	15.407(g)	Frequency Stability	Oct. 27, 2022	Su Xiaoxian	PASS	No deviation
7	15.407(h)	DFS	Oct. 27, 2022	Su Xiaoxian	PASS	No deviation
8	15.207	Conducted Emission	Oct. 21, 2022	Fan Zehang	PASS	No deviation
9	15.407(b)	Restricted Frequency Bands	Oct. 31, 2022 Nov. 08, 2022	Su Zhan	PASS	No deviation
10	15.407(b)	Radiated Emission	Nov. 08, 2022	Su Zhan	PASS	No deviation

Note 1: The tests of Conducted Emission and Radiated Emission were performed according to the method of measurements prescribed in ANSI C63.102013.

Note 2: These RF tests were performed according to the method of measurements prescribed in KDB789033 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 Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
EXA Signal Analyzer	MY53470836	N9010A	Agilent	2022.03.01	2023.02.28
USB Wideband Power Sensor	MY54180008	U2021XA	Agilent	2022.10.11	2023.10.10
Temperature Chamber	12108015	DTL-003S 101	YOMA	2022.10.10	2023.10.09
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

1.2.2 Conducted Emission Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	MY56400093	N9038A	KEYSIGHT	2022.03.03	2023.03.02
LISN	8127449	NSLK 8127	Schwarzbeck	2022.03.03	2023.03.02
Pulse Limiter (10dB)	VTSD 9561 F-B #206	VTSD 9561-F	Schwarzbeck	2022.07.06	2023.07.05
Coaxial Cable(BNC) (30MHz-26GHz)	CB01	EMC01	Morlab	N/A	N/A

1.2.3 List of Software Used

Description	Manufacturer	Software Version
Test System	MaiWei	2.0.0.0
Morlab EMCR V1.2	Morlab	V1.0
TS+-[JS32-CE]	Tonscend	V2.5.0.0

**1.2.4 Radiated Test Equipments**

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	MY54130016	N9038A	Agilent	2022.07.06	2023.07.05
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2022.05.25	2025.05.24
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2022.02.11	2025.02.10
Test Antenna – Horn	01774	BBHA 9120D	Schwarzbeck	2022.07.13	2025.07.12
Test Antenna – Horn	BBHA9170#773	BBHA 9170	Schwarzbeck	2022.07.14	2025.07.13
Coaxial Cable (N male) (9KHz-30MHz)	CB04	EMC04	Morlab	N/A	N/A
Coaxial Cable (N male) (30MHz-26GHz)	CB02	EMC02	Morlab	N/A	N/A
Coaxial Cable (N male) (30MHz-26GHz)	CB03	EMC03	Morlab	N/A	N/A
Coaxial Cable (N male) (30MHz-40GHz)	CB05	EMC05	Morlab	N/A	N/A
1-18GHz pre-Amplifier	61171/61172	S020180L3203	Tonscend	2022.07.08	2023.07.07
18-26.5GHz pre-Amplifier	46732	S10M100L3802	Tonscend	2022.07.08	2023.07.07
26-40GHz pre-Amplifier	56774	S40M400L4002	Tonscend	2022.07.08	2023.07.07
Notch Filter	N/A	WRCG-5150-5350	Wainwright	2022.07.08	2023.07.07
Notch Filter	N/A	WRCG-5470-5725	Wainwright	2022.07.08	2023.07.07
Notch Filter	N/A	WRCG-5725-5850	Wainwright	2022.07.08	2023.07.07
Anechoic Chamber	N/A	9m*6m*6m	CRT	2020.01.06	2023.01.05



1.3. Measurement Uncertainty

Test Items	Uncertainty	Remark
Peak Output Power	$\pm 2.22\text{dB}$	Confidence levels of 95%
Power Spectral Density	$\pm 2.22\text{dB}$	Confidence levels of 95%
Bandwidth	$\pm 5\%$	Confidence levels of 95%
Restricted Frequency Bands	$\pm 5\%$	Confidence levels of 95%
Radiated Emission	$\pm 2.95\text{dB}$	Confidence levels of 95%
Conducted Emission	$\pm 2.44\text{dB}$	Confidence levels of 95%

1.4. Testing Laboratory

Laboratory Name	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
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2. General Description

2.1. Information of Applicant and Manufacturer

Applicant	Justice Tech Solutions, LLC
Applicant Address	13530 Fifth Street , Chino , CA
Manufacturer	Justice Tech Solutions, LLC
Manufacturer Address	13530 Fifth Street , Chino , CA

2.2. Information of EUT

Product Name:	Dock station
Sample No.:	2#
Hardware Version:	N/A
Software Version:	N/A
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; 5260MHz-5320MHz; 5500MHz-5720MHz; 5745MHz-5825MHz
Antenna Type:	FPC Antenna
Antenna Gain:	ANT 0: 5.59dBi; ANT 1: 4.57dBi
Directional Gain:	8.60dBi _{Note 2}

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

Modulation Mode:	TX Function
802.11n	2TX
802.11ac	2TX

Note 2: According to KDB 662911 D01, the directional gain = $G_{ANT} + 10\log(N_{ANT})$ dBi, where G_{ANT} is the maximum antenna gain in dBi, N_{ANT} is the number of outputs.

Note 3: For conducted test item Conducted Output Power and Peak Power Spectral Density of each modulation mode, we recorded the test result of two antennas separately, for other conducted test items both of the two antennas were tested separately, we only recorded the worst test result (ANT0) in this report.

Note 4: All radiation test items for 802.11n and 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(ANT0) in this report.



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Note 5: We use the dedicated software to control the EUT continuous transmission.

Note 6: 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-2A) 5260MHz-5320MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	52	5260	56	5280
	60	5300	64	5320
40MHz	54	5270	62	5310
80MHz	58	5290		
(U-NII-2C) 5500MHz-5720MHz				
Bandwidth	Channel	Frequency (MHz)	Channel	Frequency (MHz)
20MHz	100	5500	105	5520
	108	5540	112	5560
	116	5580	120	5600
	124	5620	128	5640
	132	5660	136	5680
	140	5700	144	5720
40MHz	102	5510	110	5550
	118	5590	126	5630
	134	5670	142	5710
80MHz	106	5530	122	5610
	138	5690		
(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	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
802.11a	20	OFDM	DBPSK	1/2/5.5/11Mbps	N/A
			DQPSK		
			CCK		
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	MCS0~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.

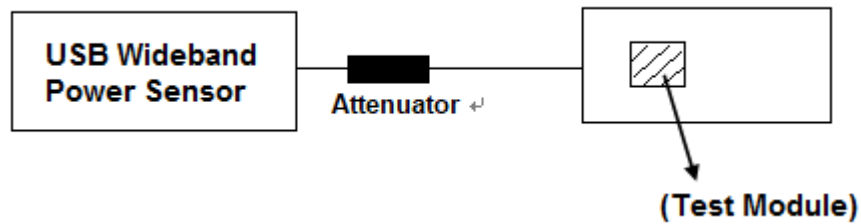
2.5. Test Conditions

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

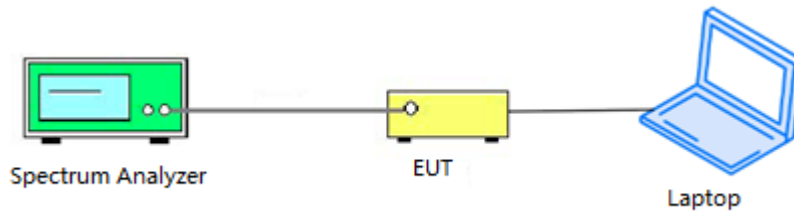
2.6. Test Setup Layout Diagram

2.6.1. Conducted Measurement

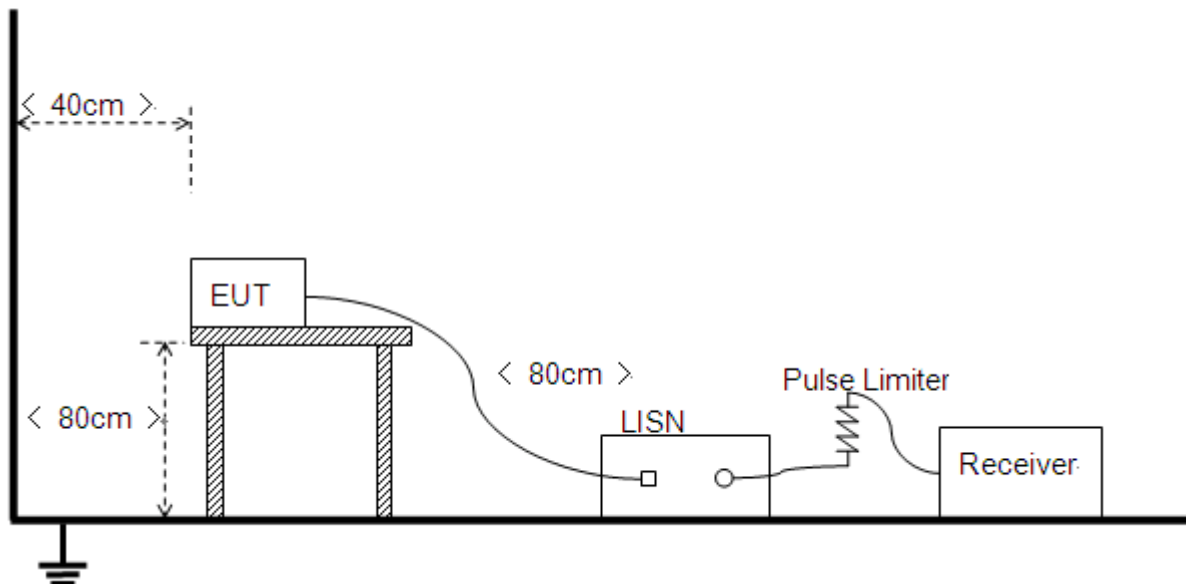
For power item that BW below 80MHz system:



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

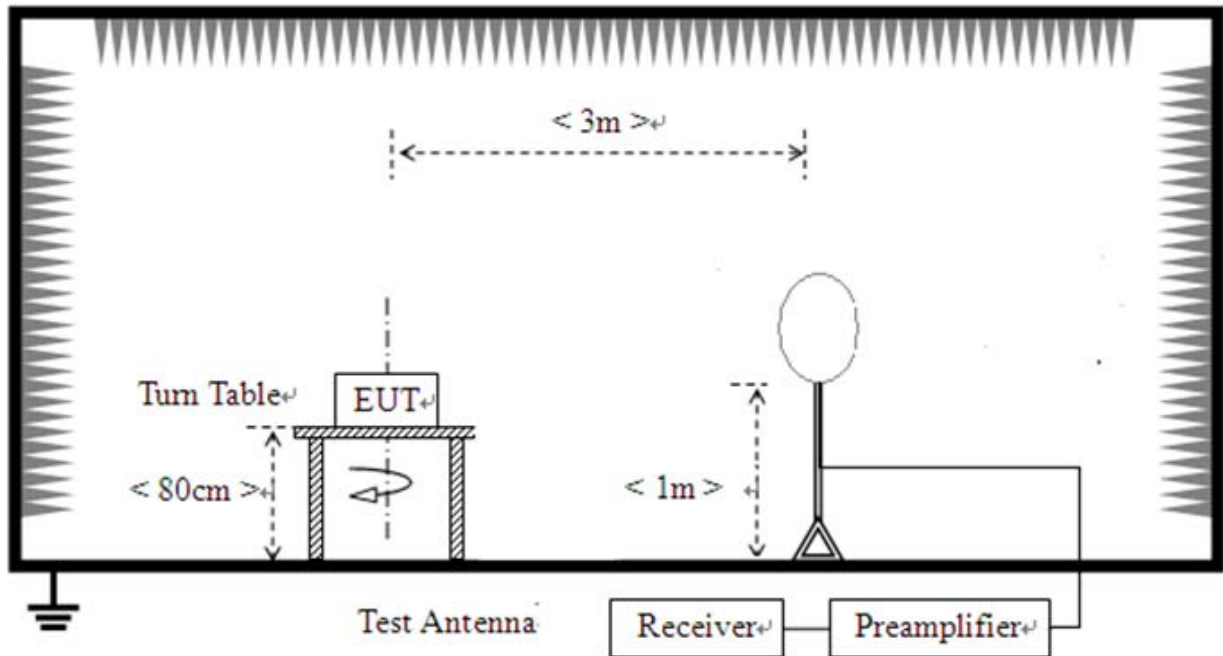


2.6.2. Conducted Emission Measurement

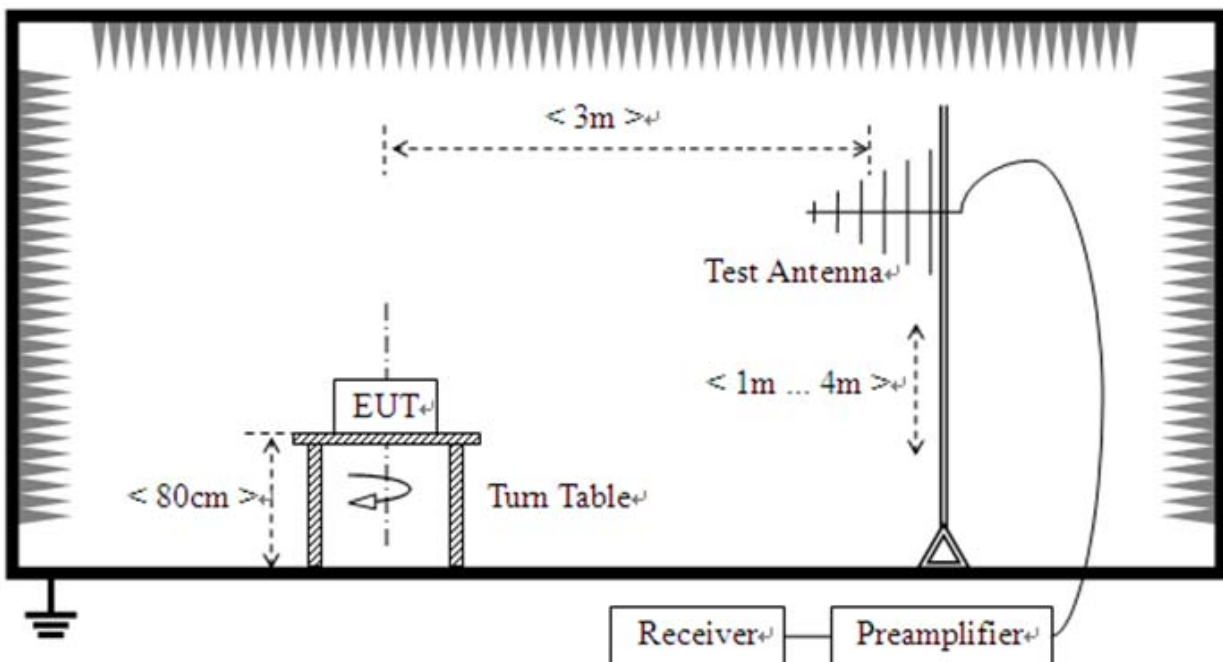


2.6.3.Radiation Measurement

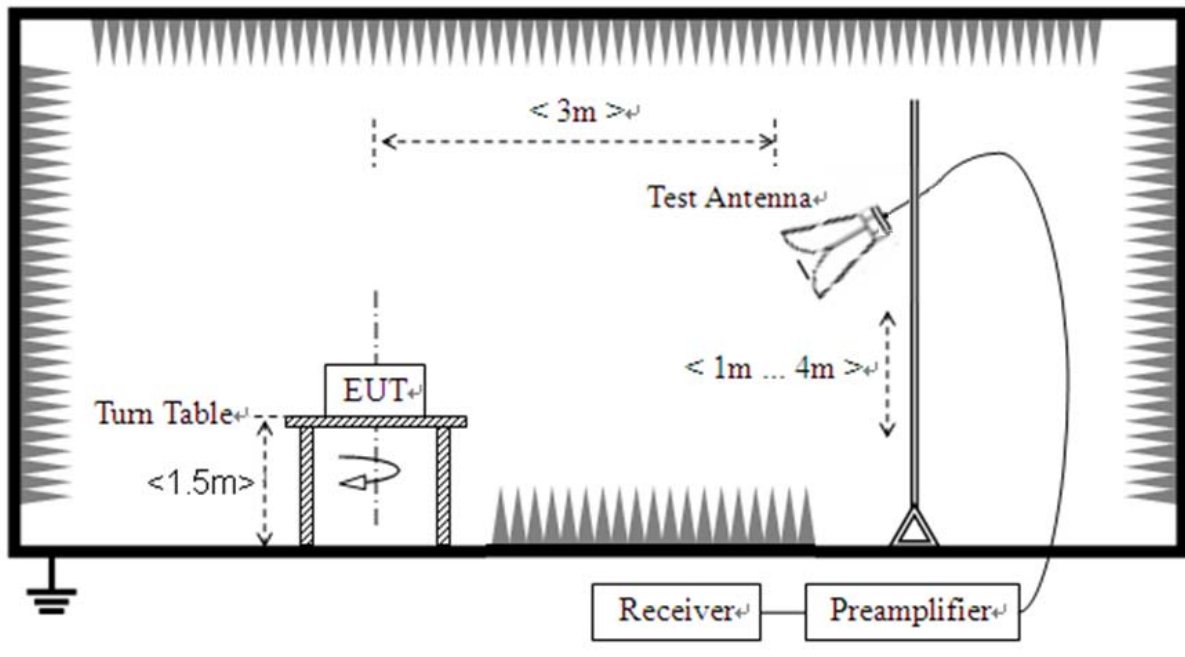
1) For radiated emissions from 9kHz to 30MHz



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

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

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 $\pm 2\%$; 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 $11\text{dBm} + 10 \log B$, 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 KDB662911D01 Measure-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 = $G_{\text{ANT}} + 10\log(N_{\text{ANT}})\text{dBi}$, 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 50Ohm; 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 50Ohm; the path loss as the factor is calibrated to correct the reading, all test result in Spectrum analyzer.

3.3.3.Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.3.4.Limits

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 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz.

Mode	Band	Channel (MHz)	26dB BW (MHz)	$11+10\log(26\text{dB BW})$	Limits (dBm)
a	UNII-2a	5260	20.93	24.21	24.00
		5300	20.66	24.15	24.00
		5320	20.27	24.07	24.00
	UNII-2c	5500	19.98	24.01	24.00
		5600	20.06	24.02	24.00
		5720	27.25	25.35	24.00
n20	UNII-2a	5260	26.12	25.17	24.00
		5300	22.63	24.55	24.00
		5320	26.78	25.28	24.00
	UNII-2c	5500	24.49	24.89	24.00
		5600	23.97	24.80	24.00
		5720	26.10	25.17	24.00
ac20	UNII-2a	5260	20.38	24.09	24.00
		5300	22.20	24.46	24.00
		5320	20.34	24.08	24.00
	UNII-2c	5500	20.51	24.12	24.00
		5600	20.38	24.09	24.00
		5720	20.50	24.12	24.00

3.3.5.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 the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

 - a) Set RBW = 100 kHz.
 - b) Set video bandwidth (VBW) $\geq 3 \times$ 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.

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 KDB662911D01 Measure-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 = $G_{ANT} + 10\log(N_{ANT})$ 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 $\geq$ 3MHz
- 3) Number of points in sweep $\geq$ 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°C to 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.

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.

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

Requirement	Operational Mode		
	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 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	Master	Client Without Radar Detection



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 Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
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



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 $\geq$ 200 mill watt	-64 dBm
EIRP < 200 mill watt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 mill watt that do not meet the power spectral density requirement	-64 dBm
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. For MIMO devices refer to KDB Publication 662911 D01.	

Response Requirements

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

Table 4: DFS Response Requirement Values

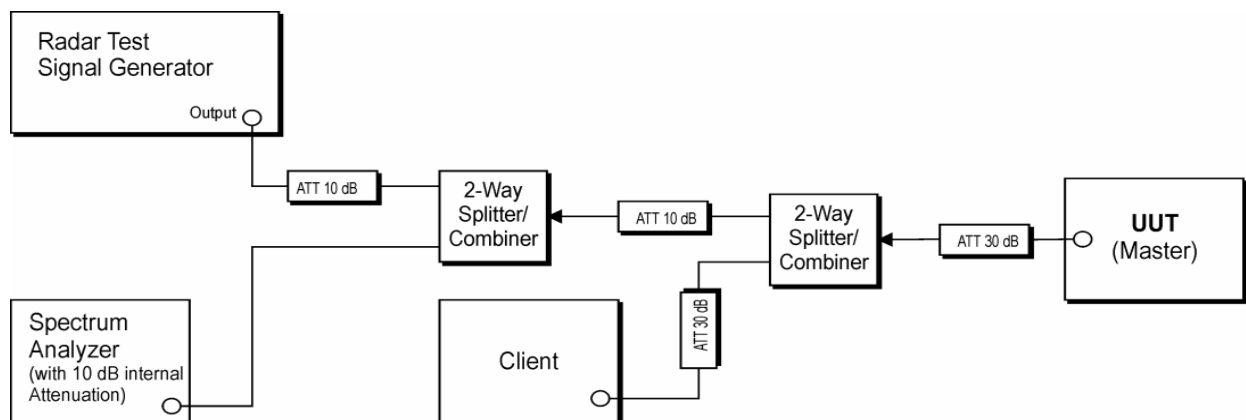
Parameter	Value
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Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second 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 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

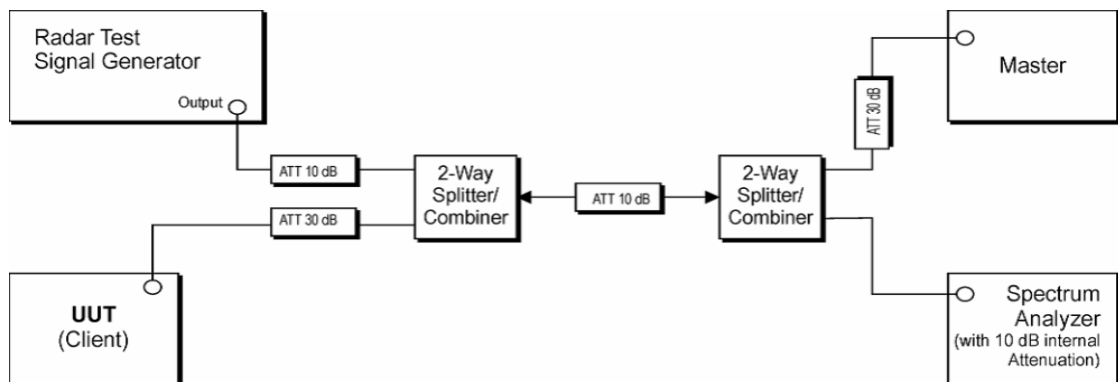
According to Section 7.2 of KDB 905462 D02 V01R01

1. Setup for Master with injection at the Master



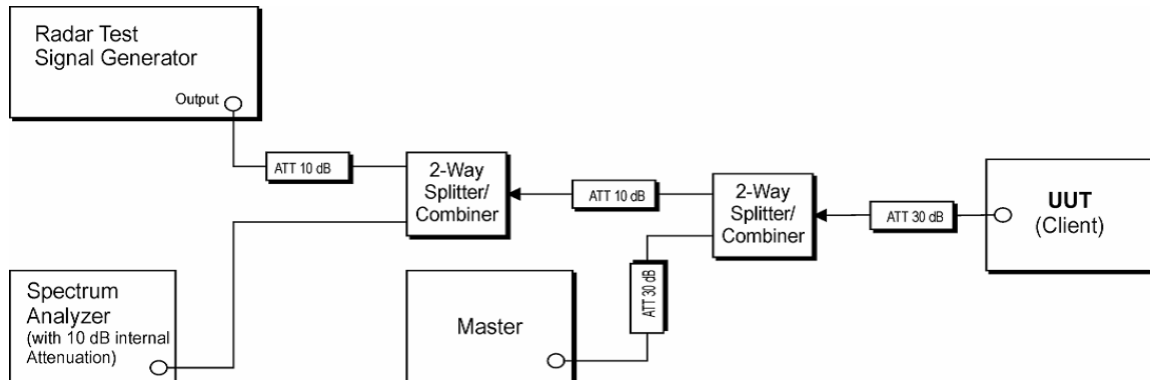
(Example Conducted Setup where UUT is a Master and Radar Test Waveforms are injected into the Master)

2. Setup for Client with injection at the Master



(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.

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 50 μ H/50 Ω line impedance stabilization network (LISN).

Frequency Range (MHz)	Conducted Limit (dB μ V)	
	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.

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);

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

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 ($\mu\text{V/m}$)	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.

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);

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

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



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.



Annex A Test Data and Result

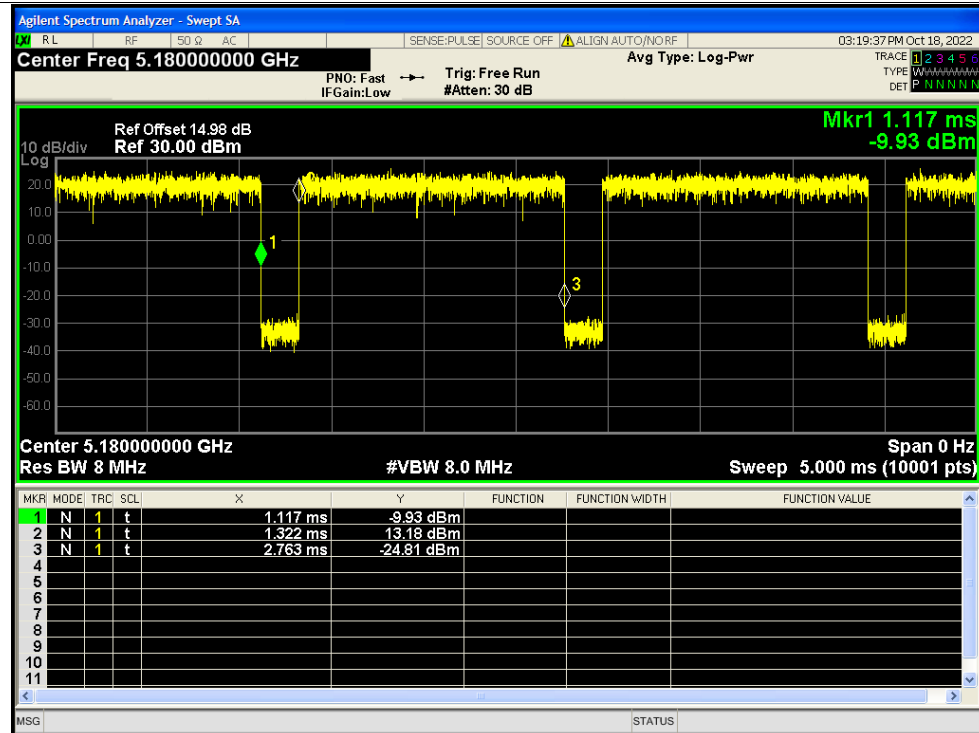
A.1. Duty Cycle of Test Signal

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	87.55	0.58	0.69
NVNT	n20	5180	Ant1	86.84	0.61	0.74
NVNT	n40	5190	Ant1	76.72	1.15	1.49
NVNT	ac20	5180	Ant1	86.94	0.61	0.73
NVNT	ac40	5190	Ant1	76.88	1.14	1.48
NVNT	ac80	5210	Ant1	62.37	2.05	2.97

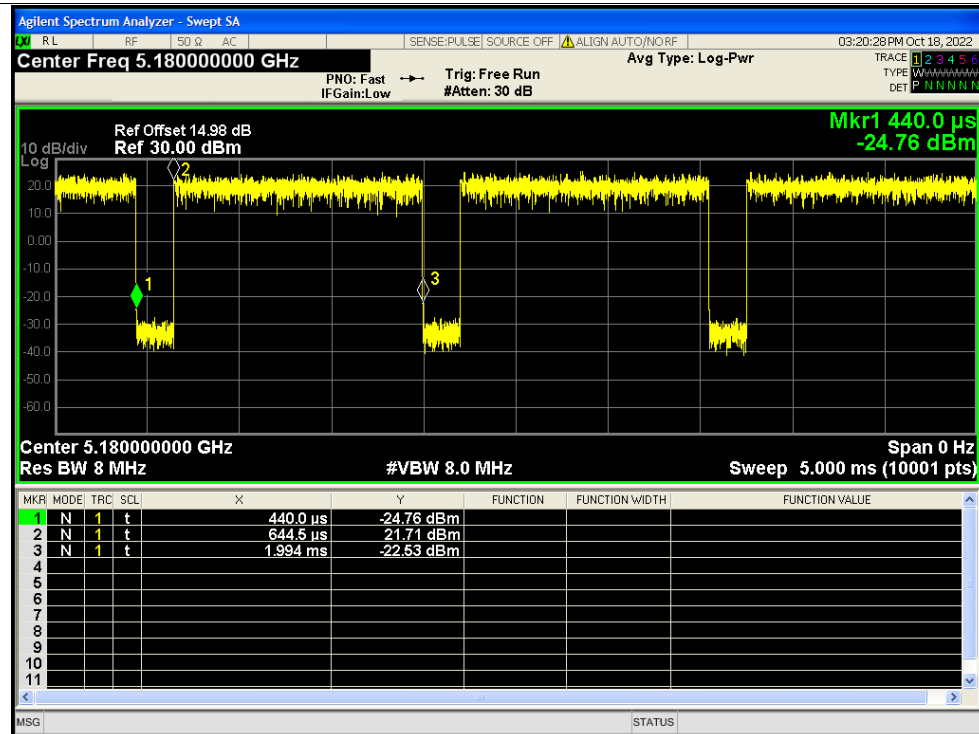


Test Graphs

Duty Cycle NVNT a 5180MHz Ant1

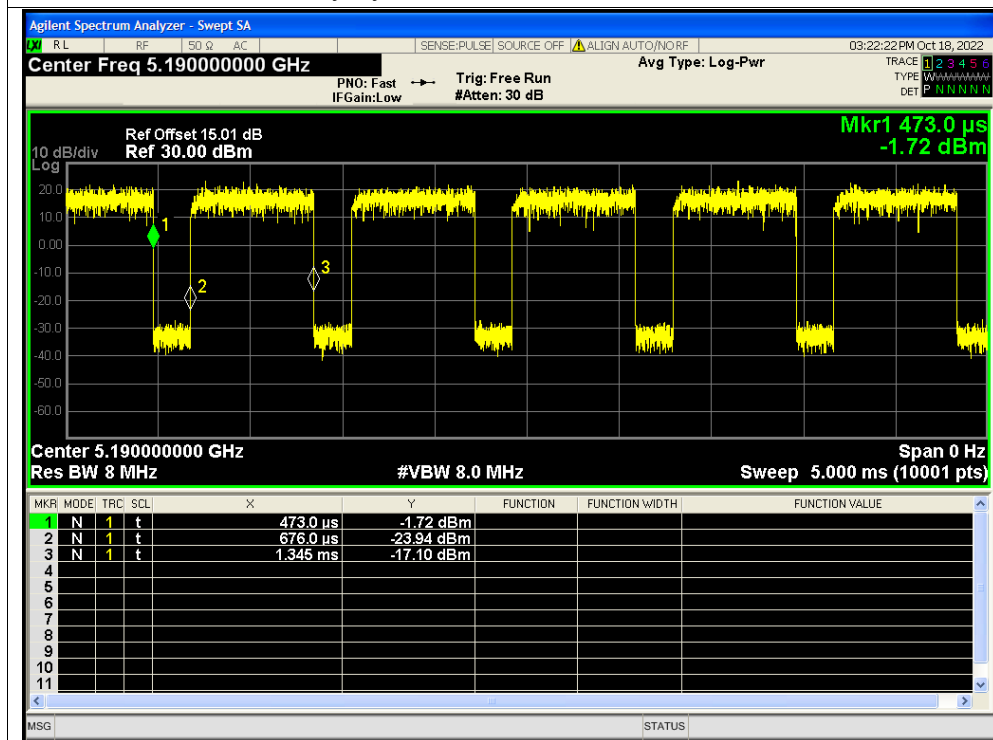


Duty Cycle NVNT n20 5180MHz Ant1

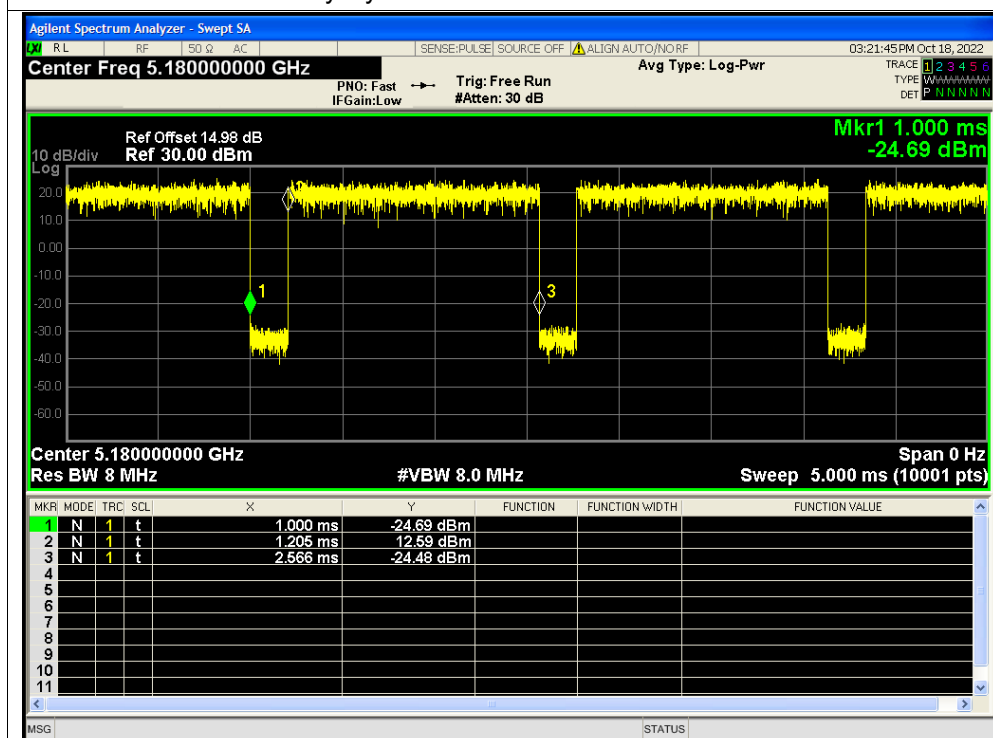




Duty Cycle NVNT n40 5190MHz Ant1

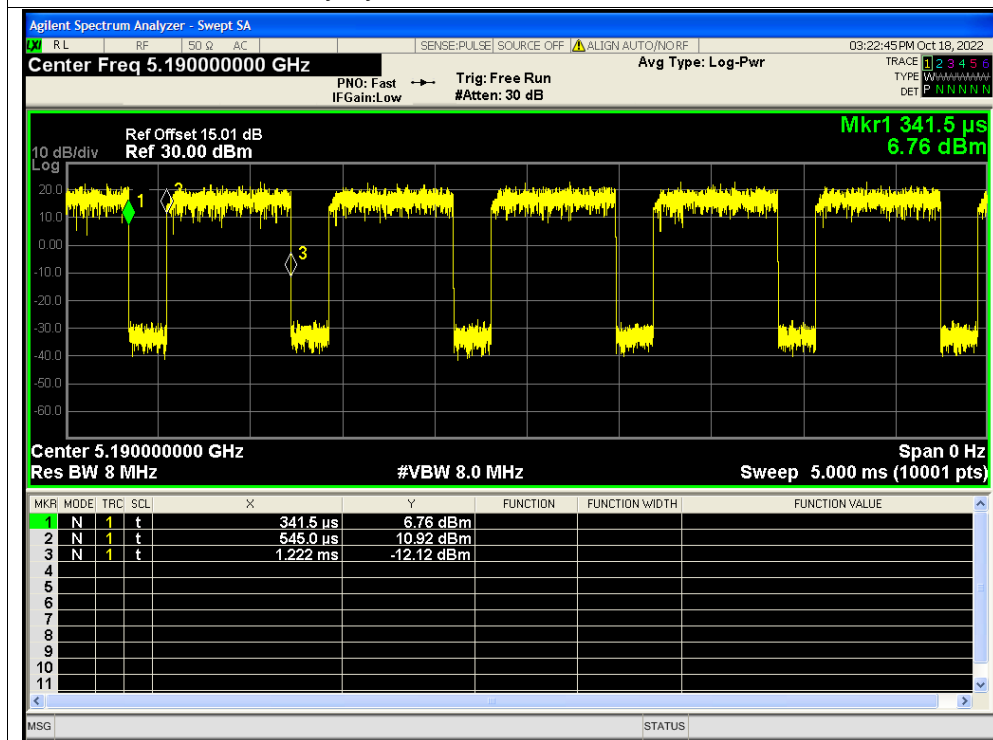


Duty Cycle NVNT ac20 5180MHz Ant1

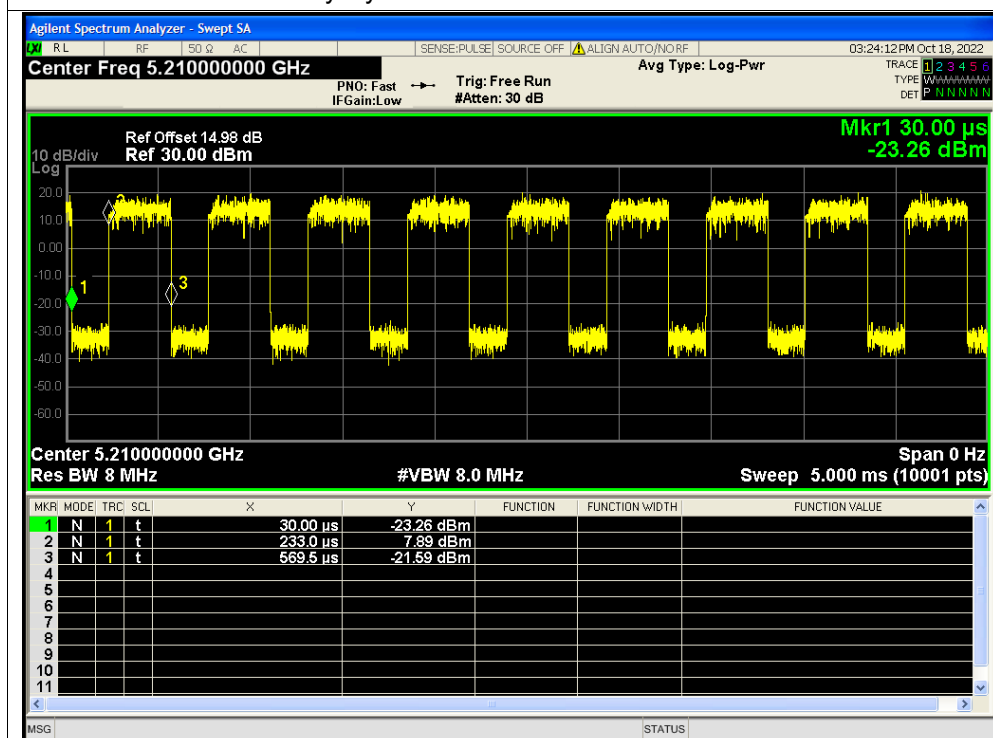




Duty Cycle NVNT ac40 5190MHz Ant1



Duty Cycle NVNT ac80 5210MHz Ant1



**A.2. Maximum Conducted Output Power****802.11a Mode**

Frequency (MHz)	Average Power							Limit		Verdict
	Measured		Duty Factor	Duty Factor Calculated						
	ANT0	ANT1		ANT0		ANT1				
	dBm	dBm		dBm	W	dBm	W			
5180	13.60	11.56	0.58	14.18	0.026	12.14	0.016	24	0.25	PASS
5220	14.46	12.31		15.04	0.032	12.89	0.019			
5240	14.31	11.96		14.89	0.031	12.54	0.018			
5260	14.21	13.50		14.79	0.030	14.08	0.026			
5300	14.68	13.30		15.26	0.034	13.88	0.024			
5320	14.94	13.40		15.52	0.036	13.98	0.025			
5500	13.46	13.04		14.04	0.025	13.62	0.023			
5600	12.43	13.28		13.01	0.020	13.86	0.024			
5720	13.14	13.51		13.72	0.024	14.09	0.026			
5745	13.72	13.52		14.30	0.027	14.10	0.026	30	1	
5785	13.94	13.45		14.52	0.028	14.03	0.025			
5825	14.17	13.59		14.75	0.030	14.17	0.026			

**802.11n (HT20) Mode**

Frequency (MHz)	Average Power				Limit		Verdict	
	Measured		Duty Factor	Total Power with Duty Factor				
	ANT0	ANT1			dBm	W		dBm
5180	12.74	12.01	0.61	16.02	0.040	21.4	0.13	PASS
5220	13.32	11.64		16.23	0.042			
5240	13.55	11.65		16.33	0.043			
5260	13.14	12.66		16.53	0.045			
5300	13.86	12.88		16.99	0.050			
5320	14.07	12.97		17.16	0.052			
5500	12.42	12.31		16.02	0.040			
5600	11.59	11.69		15.31	0.034			
5720	12.29	12.37		15.91	0.039			
5745	12.91	12.94		16.53	0.045	27.40	0.55	
5785	13.22	13.18		16.81	0.048			
5825	13.25	13.22		16.81	0.048			
Note: Directional gain = 5.59dBi +10log(2) = 8.60dBi>6dBi, so the power limit shall be reduced to 24-(8.60-6) = 21.40dBm for 5.18-5.24GHz, 5.260-5.320GHz, 5.500-5.720GHz band and reduced to 30-(8.60-6) = 27.40dBm for 5.745-5.825GHz band.								

802.11n (HT40) Mode

Frequency (MHz)	Average Power					Limit		Verdict
	Measured		Duty Factor	Total Power with Duty Factor				
	ANT0	ANT1		dBm	W	dBm	W	
5190	12.82	11.57	1.15	16.43	0.044	21.4	0.13	PASS
5230	13.09	12.01		16.72	0.047			
5270	13.22	13.08		17.32	0.054			
5310	13.44	13.49		17.63	0.058			
5510	12.30	12.44		16.53	0.045			
5630	11.48	12.10		15.91	0.039			
5710	11.84	12.70		16.43	0.044			
5755	12.73	12.89		16.99	0.050	27.40	0.55	
5795	12.71	12.10	16.53	0.045				
Note: Directional gain = 5.59dBi +10log(2) = 8.60dBi>6dBi, so the power limit shall be reduced to 24-(8.60-6) = 21.40dBm for 5.18-5.24GHz, 5.260-5.320GHz, 5.500-5.720GHz band and reduced to 30-(8.60-6) = 27.40dBm for 5.745-5.825GHz band.								

**802.11ac (VHT20) Mode**

Frequency (MHz)	Average Power					Limit		Verdict
	Measured		Duty Factor	Total Power with Duty Factor				
	ANT0	ANT1						
	dBm	dBm		dBm	W			
5180	12.15	11.74	0.61	15.56	0.036	21.4	0.13	PASS
5220	12.51	11.81		15.80	0.038			
5240	12.17	12.06		15.68	0.037			
5260	12.17	12.56		16.02	0.040			
5300	12.45	12.94		16.33	0.043			
5320	12.81	13.25		16.63	0.046			
5500	11.58	12.20		15.56	0.036			
5600	10.25	11.68		14.62	0.029			
5720	10.86	11.24		14.62	0.029			
5745	11.56	11.91		15.31	0.034	27.40	0.55	
5785	11.85	11.96		15.56	0.036			
5825	11.97	12.25		15.68	0.037			

Note: Directional gain = 5.59dBi + 10log(2) = 8.60dBi > 6dBi, so the power limit shall be reduced to 24-(8.60-6) = 21.40dBm for 5.18-5.24GHz, 5.260-5.320GHz, 5.500-5.720GHz band and reduced to 30-(8.60-6) = 27.40dBm for 5.745-5.825GHz band.

802.11ac (VHT40) Mode

Frequency (MHz)	Average Power					Limit		Verdict
	Measured		Duty Factor	Total Power with Duty Factor				
	ANT0	ANT1						
	dBm	dBm		dBm	W	dBm	W	
5190	11.55	11.63	1.14	15.80	0.038	21.4	0.13	PASS
5230	12.11	12.29		16.33	0.043			
5270	11.90	12.04		16.13	0.041			
5310	12.45	12.33		16.53	0.045			
5510	11.56	11.62		15.80	0.038			
5630	10.54	10.76		14.77	0.030			
5710	10.94	10.87		15.05	0.032			
5755	11.38	11.24		15.44	0.035	27.40	0.55	
5795	11.84	11.80		16.02	0.040			

Note: Directional gain = 5.59dBi + 10log(2) = 8.60dBi > 6dBi, so the power limit shall be reduced to 24-(8.60-6) = 21.40dBm for 5.18-5.24GHz, 5.260-5.320GHz, 5.500-5.720GHz band and reduced to 30-(8.60-6) = 27.40dBm for 5.745-5.825GHz band.

**802.11ac (VHT80) Mode**

Frequency (MHz)	Average Power					Limit		Verdict
	Measured		Duty Factor	Total Power with Duty Factor				
	ANT0	ANT1		dBm	W	dBm	W	
5210	11.12	11.18	2.05	16.23	0.042	21.4	0.13	PASS
5290	11.91	11.84		16.90	0.049			
5530	11.23	11.53		16.43	0.044			
5610	9.85	10.40		15.19	0.033			
5690	10.57	10.97		15.80	0.038			
5775	11.08	11.30		16.23	0.042	27.40	0.55	
Note: Directional gain = 5.59dBi + 10log(2) = 8.60dBi > 6dBi, so the power limit shall be reduced to 24-(8.60-6) = 21.40dBm for 5.18-5.24GHz, 5.260-5.320GHz, 5.500-5.720GHz band and reduced to 30-(8.60-6) = 27.40dBm for 5.745-5.825GHz band.								

**A.3. Emission Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)
NVNT	a	5180	Ant1	19.767
NVNT	a	5220	Ant1	20.084
NVNT	a	5240	Ant1	20.021
NVNT	a	5260	Ant1	19.744
NVNT	a	5300	Ant1	19.835
NVNT	a	5320	Ant1	19.625
NVNT	a	5500	Ant1	20.314
NVNT	a	5600	Ant1	19.821
NVNT	a	5720	Ant1	20.239
NVNT	n20	5180	Ant1	20.341
NVNT	n20	5220	Ant1	20.108
NVNT	n20	5240	Ant1	20.201
NVNT	n20	5260	Ant1	20.1
NVNT	n20	5300	Ant1	20.316
NVNT	n20	5320	Ant1	20.265
NVNT	n20	5500	Ant1	20.201
NVNT	n20	5600	Ant1	20.384
NVNT	n20	5720	Ant1	20.223
NVNT	n40	5190	Ant1	40.523
NVNT	n40	5230	Ant1	40.098
NVNT	n40	5270	Ant1	40.427
NVNT	n40	5310	Ant1	40.019
NVNT	n40	5510	Ant1	40.185
NVNT	n40	5630	Ant1	40.249
NVNT	n40	5710	Ant1	40.027
NVNT	ac20	5180	Ant1	20.204
NVNT	ac20	5220	Ant1	20.417
NVNT	ac20	5240	Ant1	20.143
NVNT	ac20	5260	Ant1	20.142
NVNT	ac20	5300	Ant1	20.226
NVNT	ac20	5320	Ant1	20.47
NVNT	ac20	5500	Ant1	20.38
NVNT	ac20	5600	Ant1	20.17
NVNT	ac20	5720	Ant1	20.097
NVNT	ac40	5190	Ant1	40.496
NVNT	ac40	5230	Ant1	41.202



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NVNT	ac40	5270	Ant1	40.406
NVNT	ac40	5310	Ant1	41.018
NVNT	ac40	5510	Ant1	40.915
NVNT	ac40	5630	Ant1	41.116
NVNT	ac40	5710	Ant1	40.809
NVNT	ac80	5210	Ant1	80.326
NVNT	ac80	5290	Ant1	80.673
NVNT	ac80	5530	Ant1	80.502
NVNT	ac80	5610	Ant1	80.753
NVNT	ac80	5690	Ant1	80.830

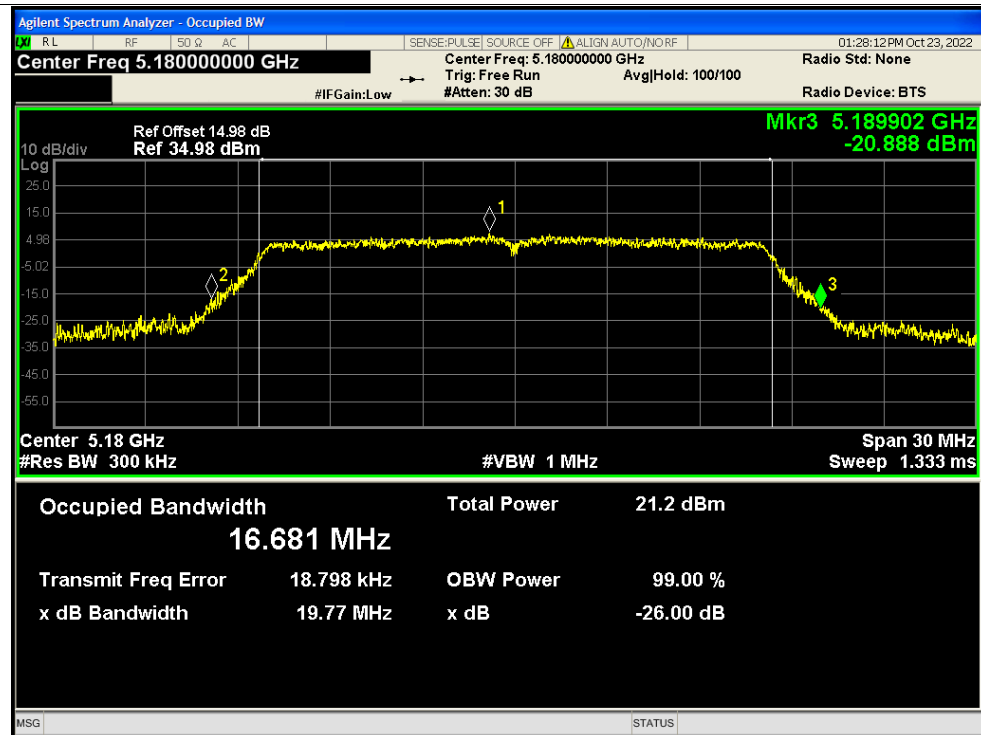


Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)
NVNT	a	5720	Ant1	16.294
NVNT	a	5745	Ant1	16.070
NVNT	a	5785	Ant1	16.319
NVNT	a	5825	Ant1	16.326
NVNT	n20	5720	Ant1	16.735
NVNT	n20	5745	Ant1	16.954
NVNT	n20	5785	Ant1	15.95
NVNT	n20	5825	Ant1	17.101
NVNT	n40	5710	Ant1	34.953
NVNT	n40	5755	Ant1	35.062
NVNT	n40	5795	Ant1	34.166
NVNT	ac20	5720	Ant1	17.542
NVNT	ac20	5745	Ant1	17.392
NVNT	ac20	5785	Ant1	16.663
NVNT	ac20	5825	Ant1	17.004
NVNT	ac40	5710	Ant1	35.304
NVNT	ac40	5755	Ant1	35.076
NVNT	ac40	5795	Ant1	35.049
NVNT	ac80	5690	Ant1	75.024
NVNT	ac80	5775	Ant1	75.056

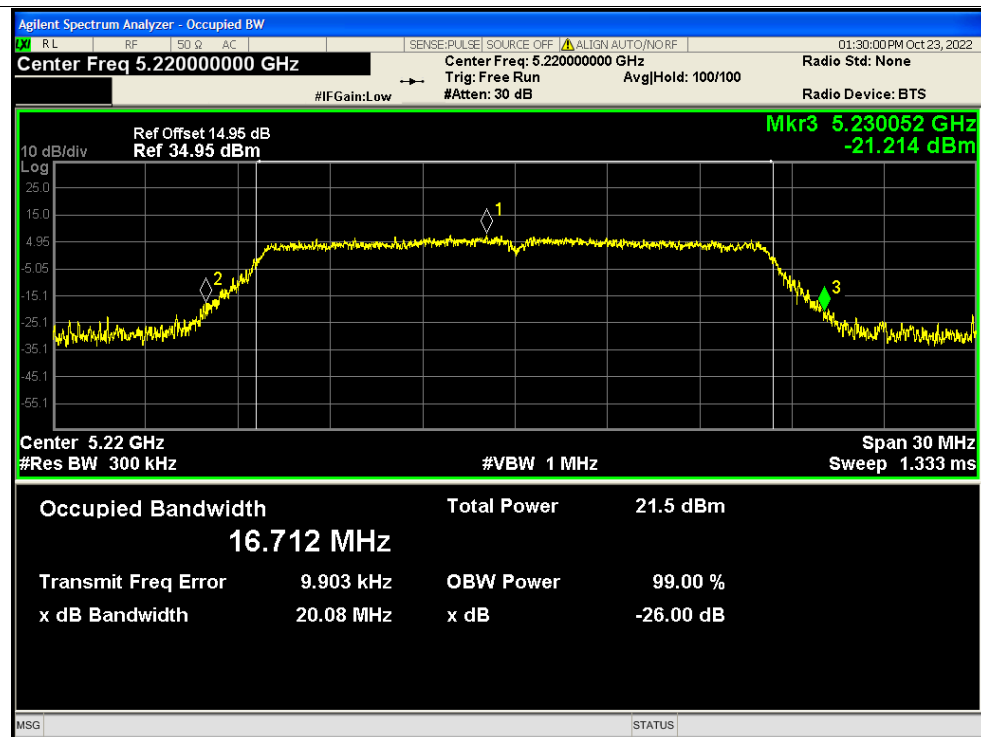


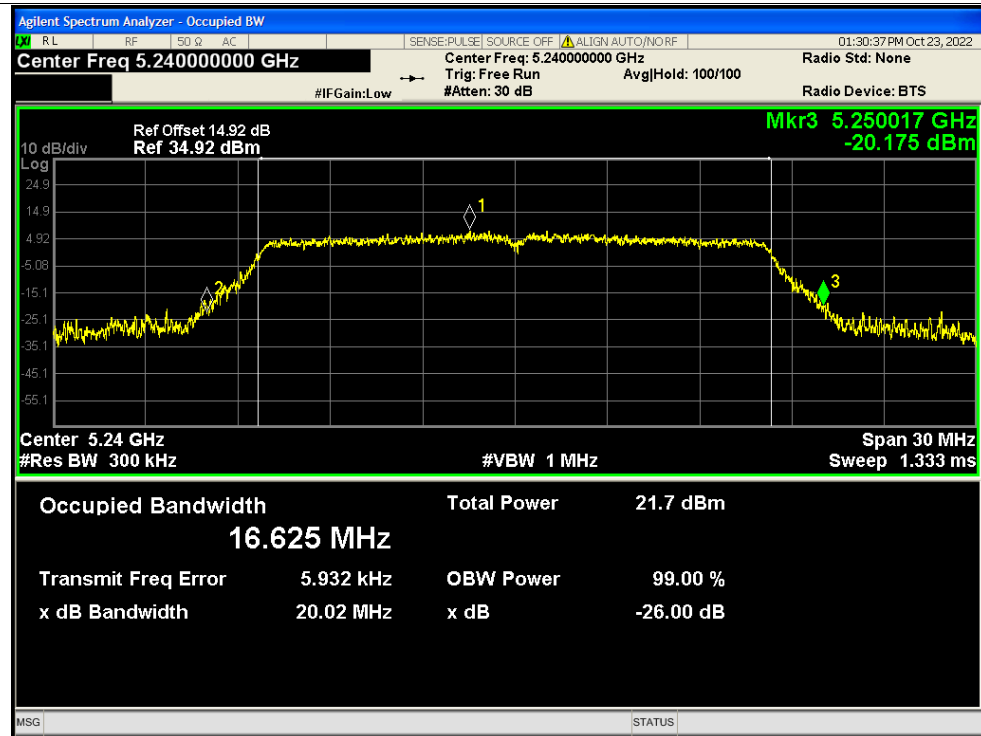
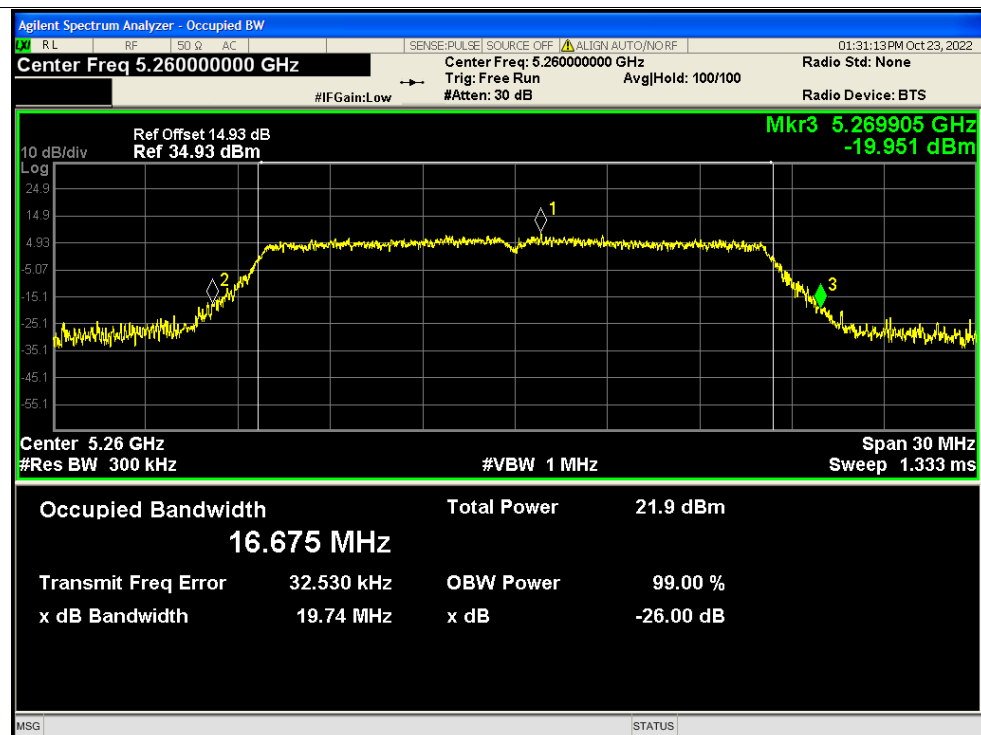
Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1



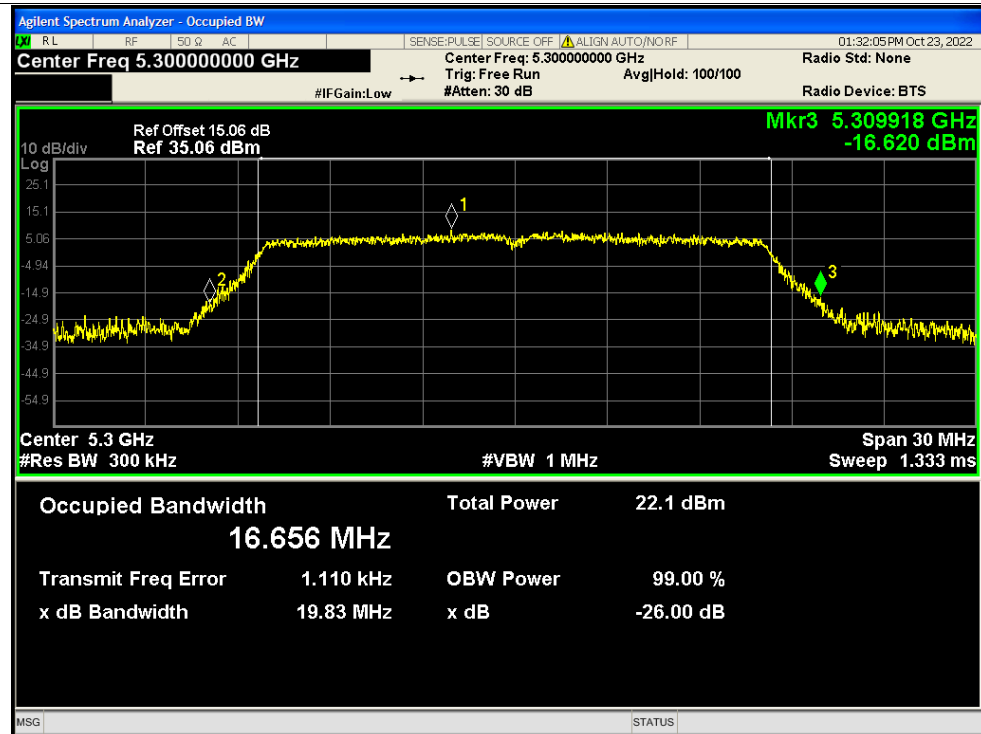
-26dB Bandwidth NVNT a 5220MHz Ant1



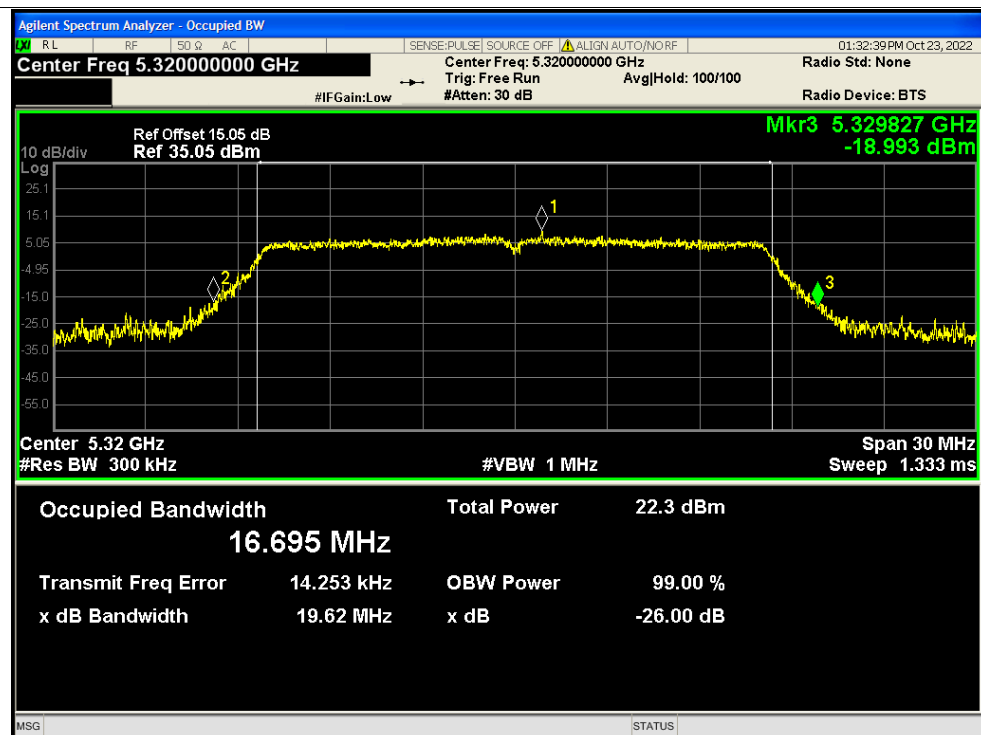
**-26dB Bandwidth NVNT a 5240MHz Ant1****-26dB Bandwidth NVNT a 5260MHz Ant1**



-26dB Bandwidth NVNT a 5300MHz Ant1

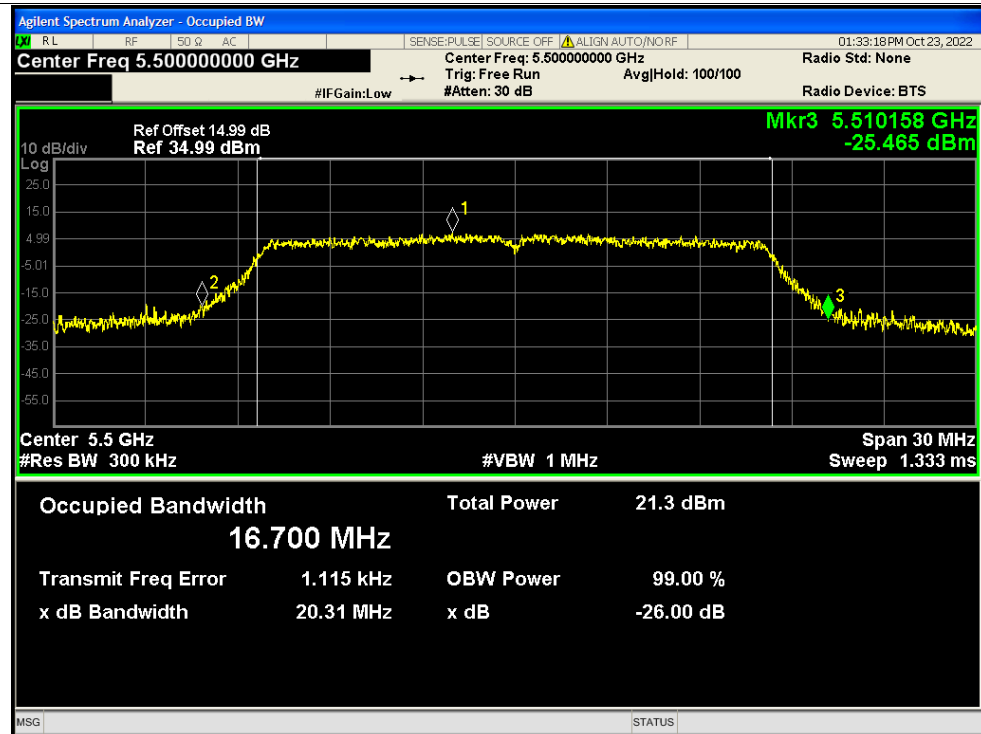


-26dB Bandwidth NVNT a 5320MHz Ant1

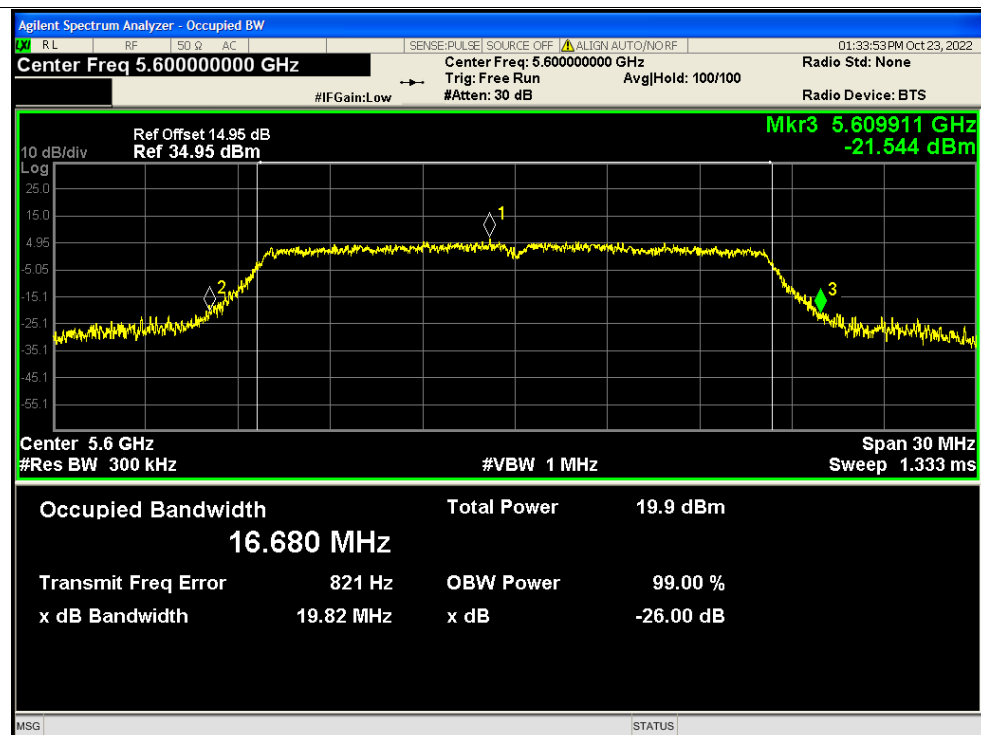


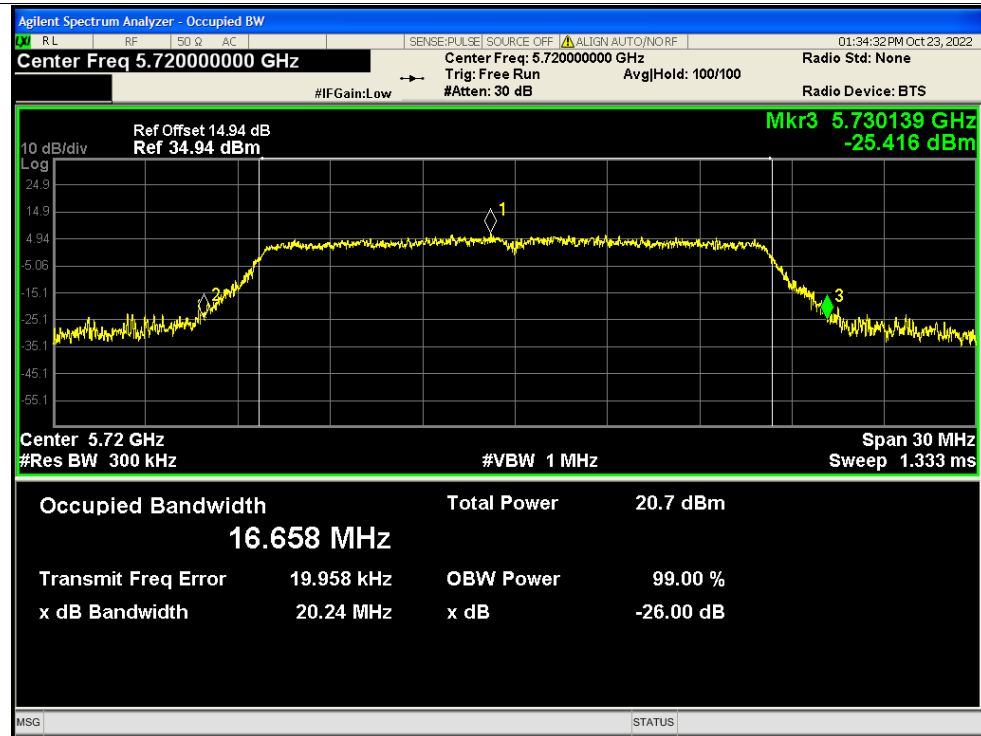
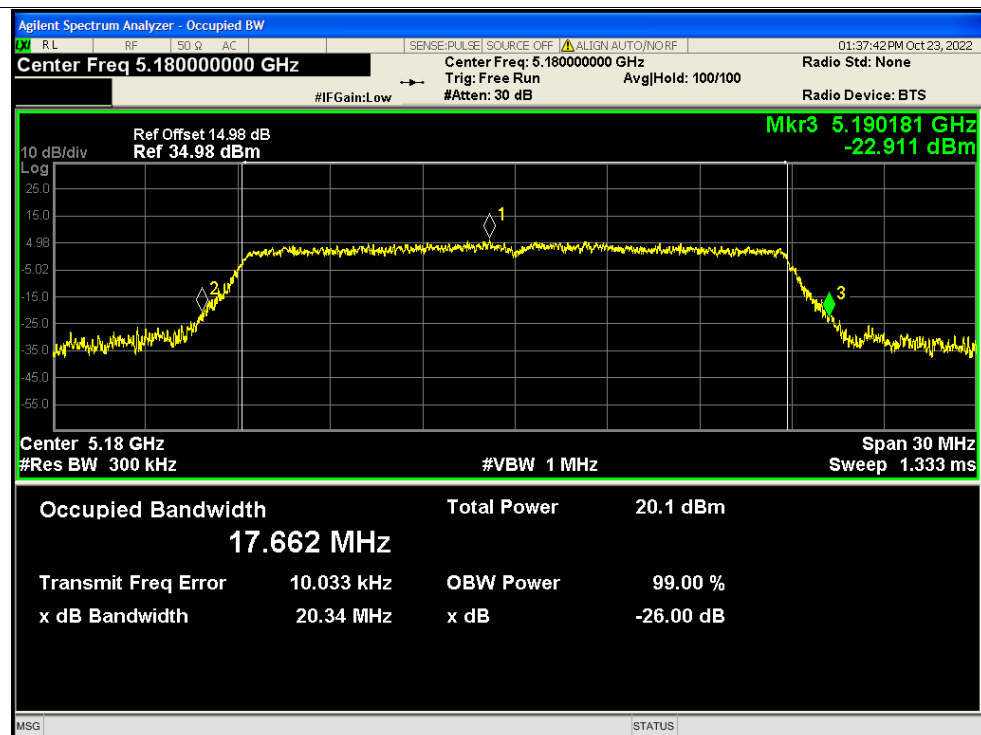


-26dB Bandwidth NVNT a 5500MHz Ant1



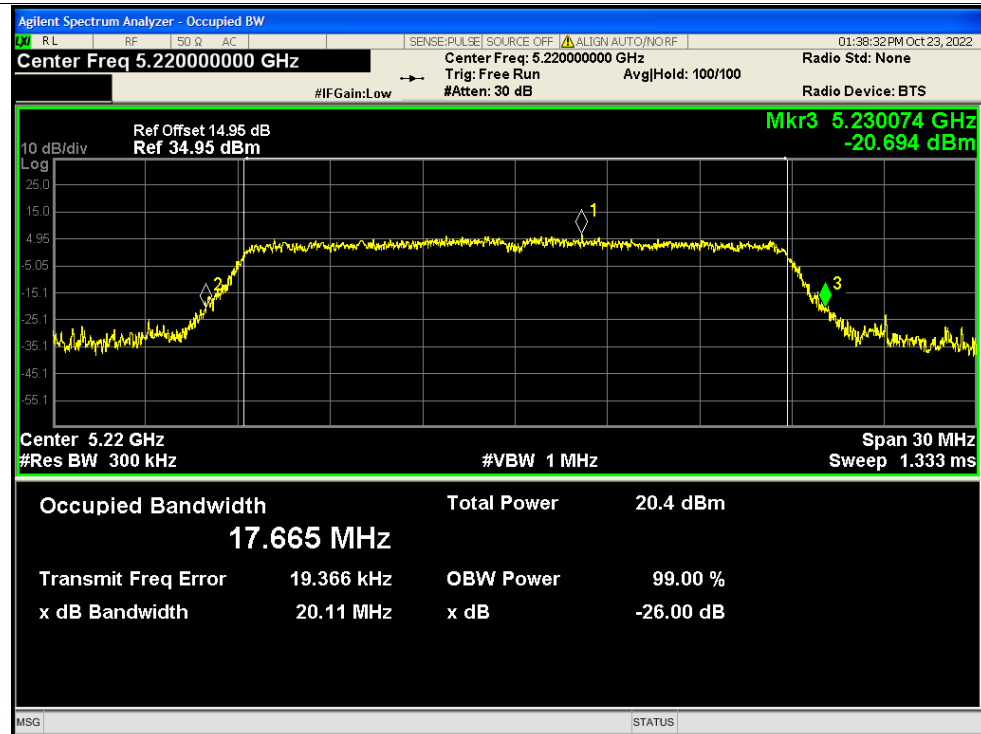
-26dB Bandwidth NVNT a 5600MHz Ant1



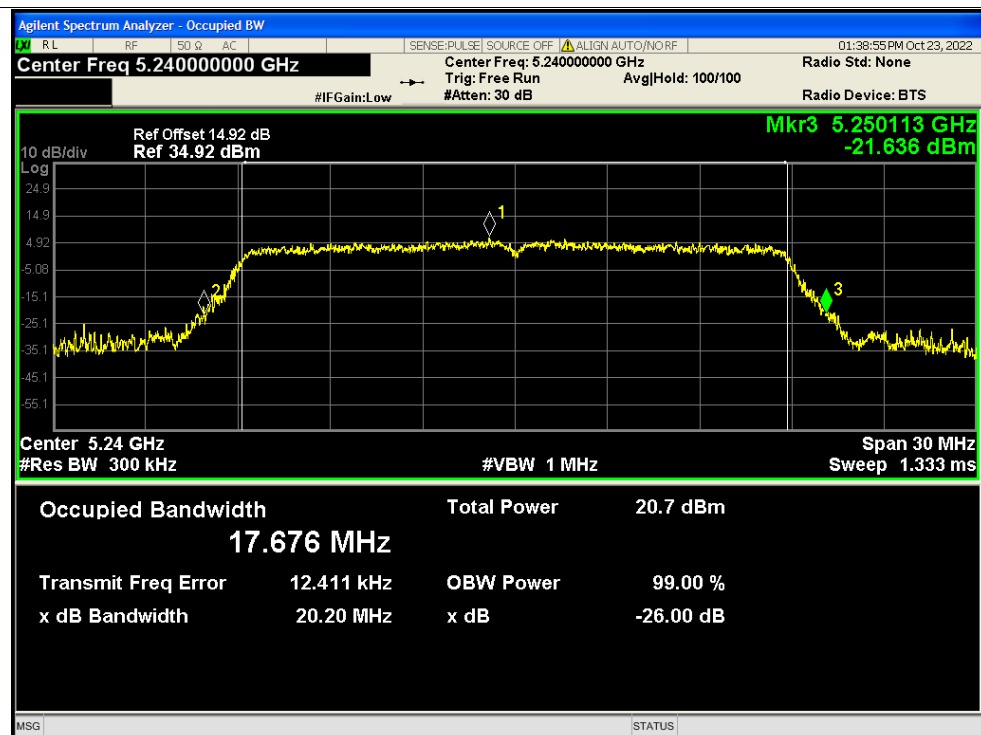
**-26dB Bandwidth NVNT a 5720MHz Ant1****-26dB Bandwidth NVNT n20 5180MHz Ant1**



-26dB Bandwidth NVNT n20 5220MHz Ant1

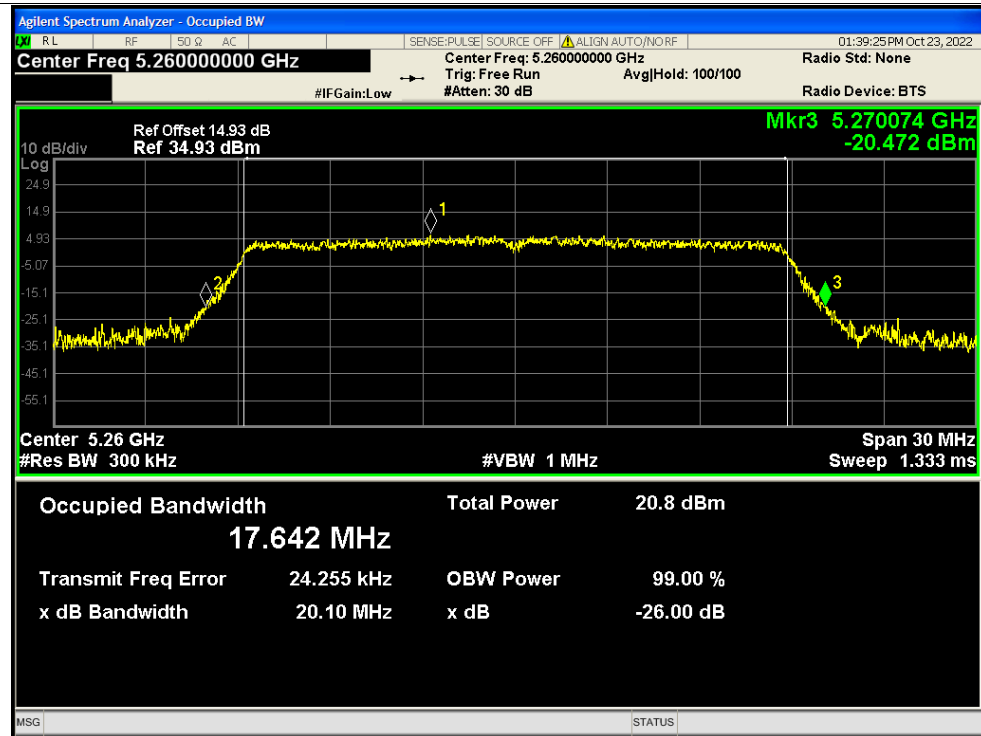


-26dB Bandwidth NVNT n20 5240MHz Ant1

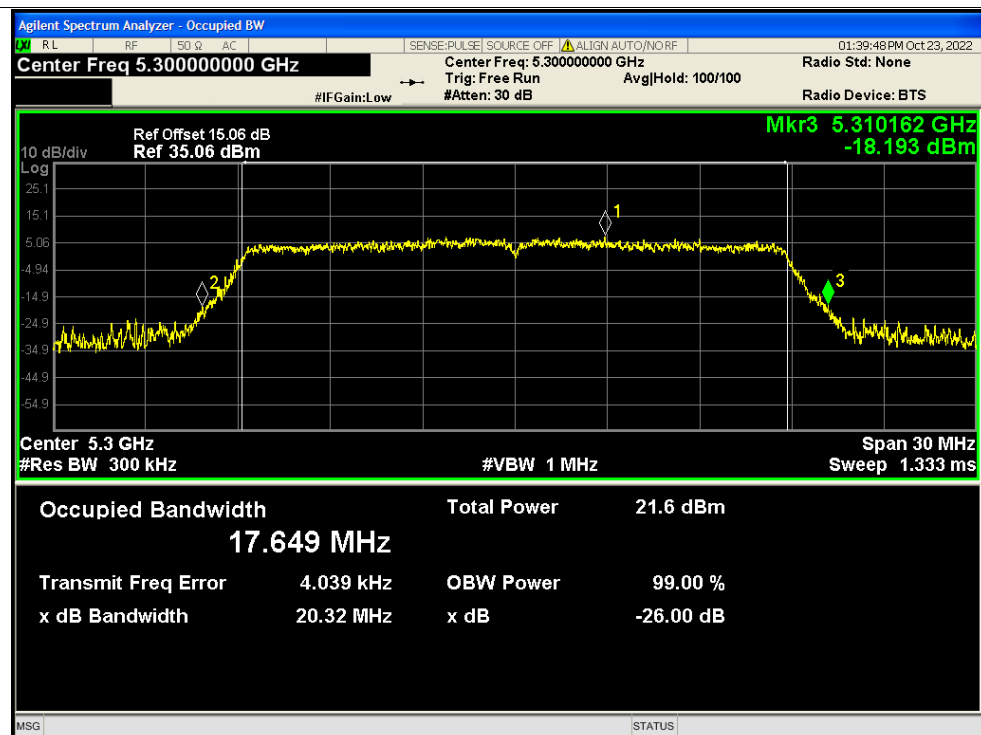




-26dB Bandwidth NVNT n20 5260MHz Ant1

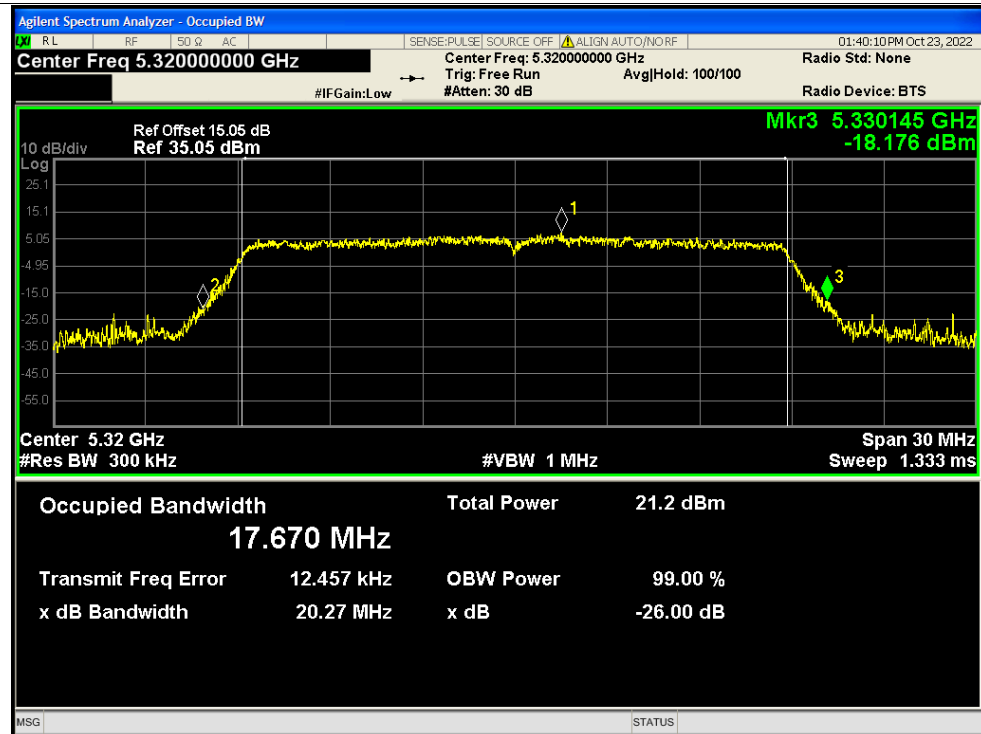


-26dB Bandwidth NVNT n20 5300MHz Ant1

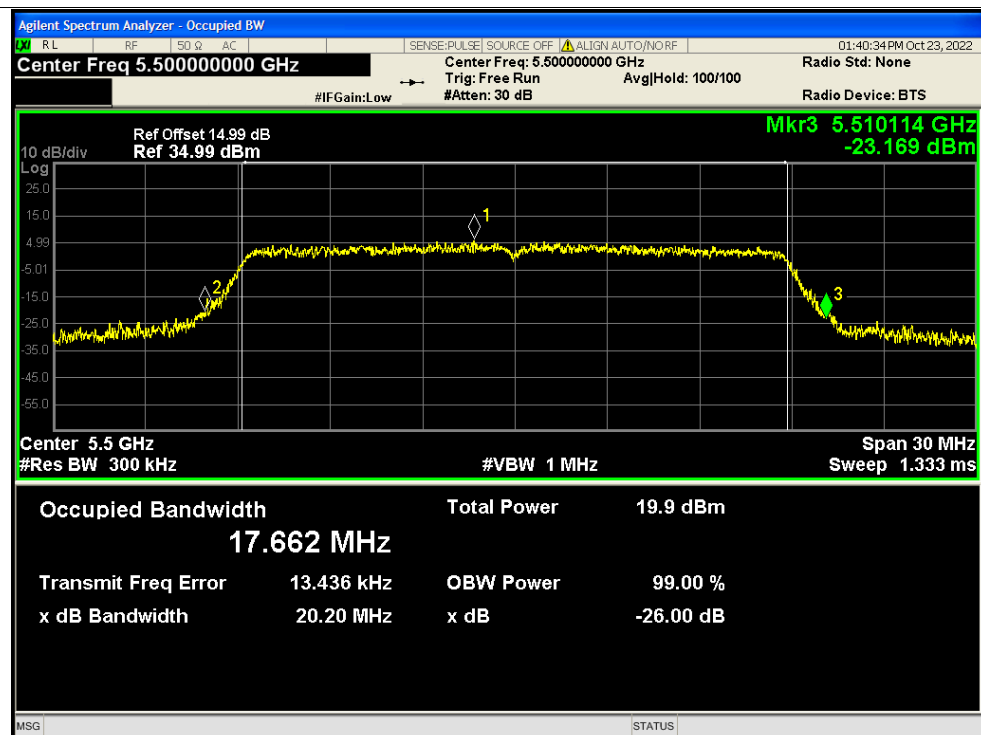




-26dB Bandwidth NVNT n20 5320MHz Ant1

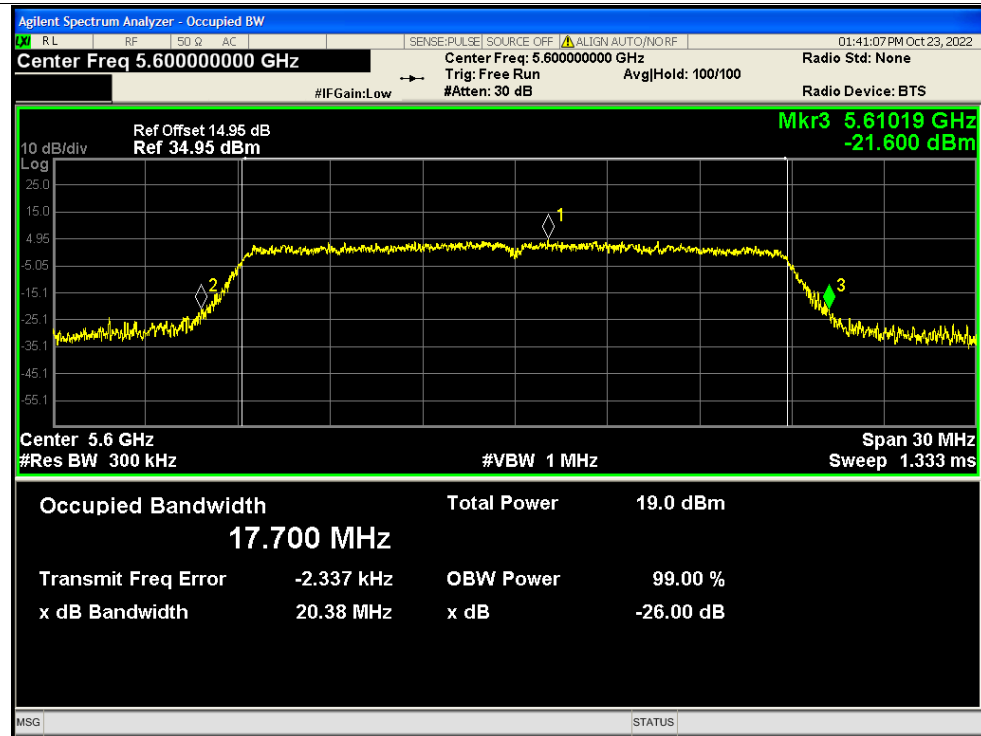


-26dB Bandwidth NVNT n20 5500MHz Ant1

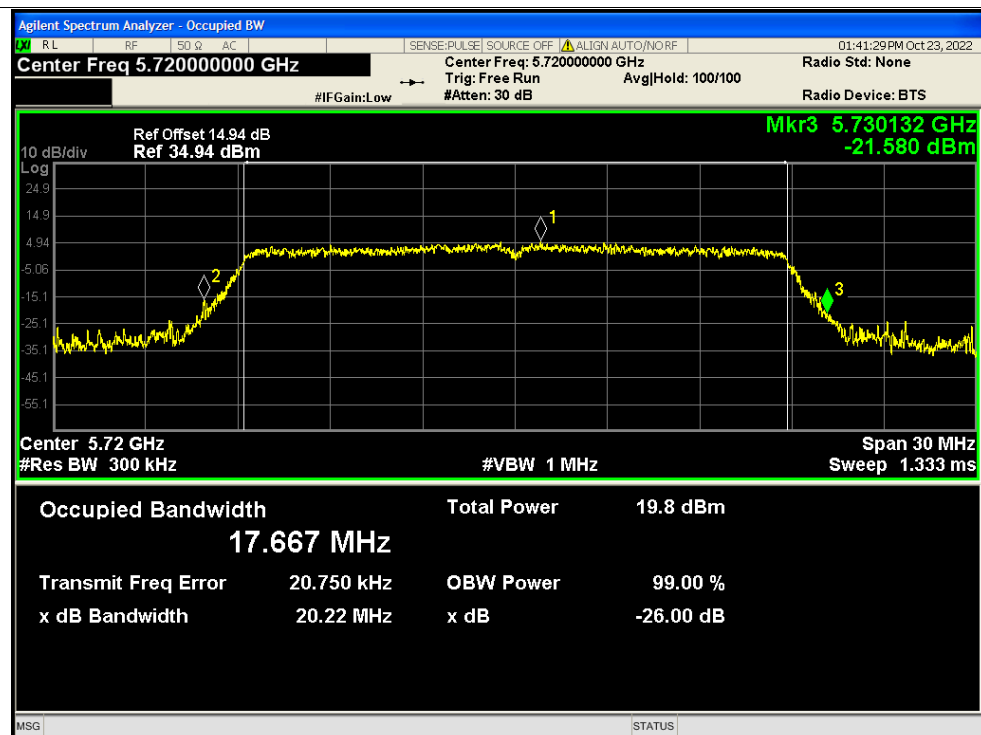




-26dB Bandwidth NVNT n20 5600MHz Ant1

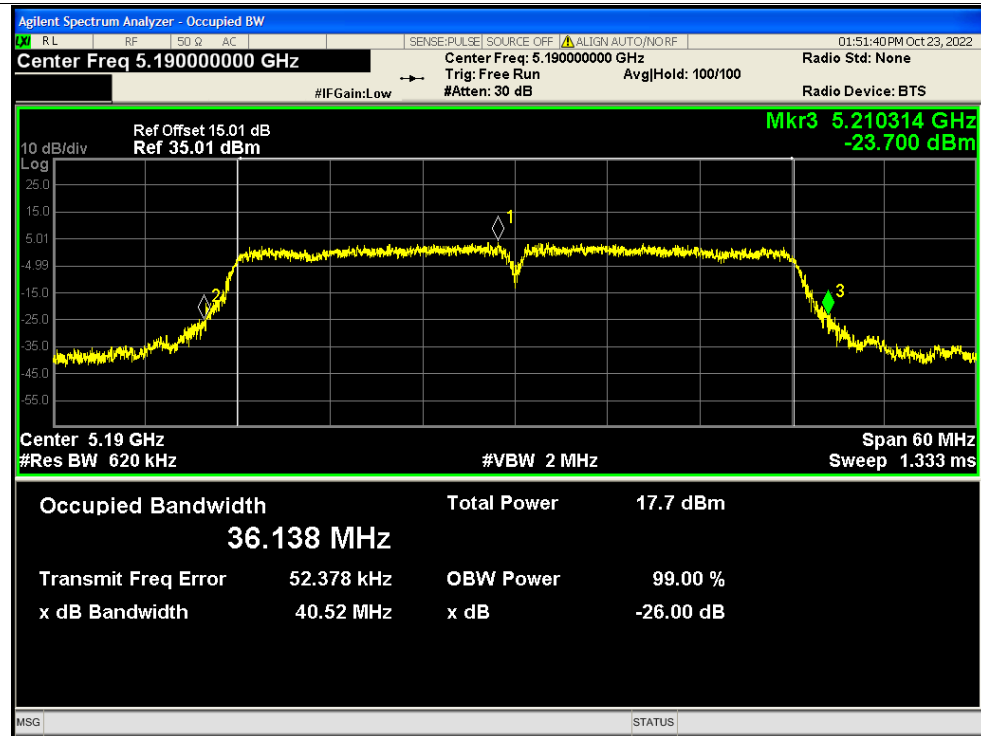


-26dB Bandwidth NVNT n20 5720MHz Ant1

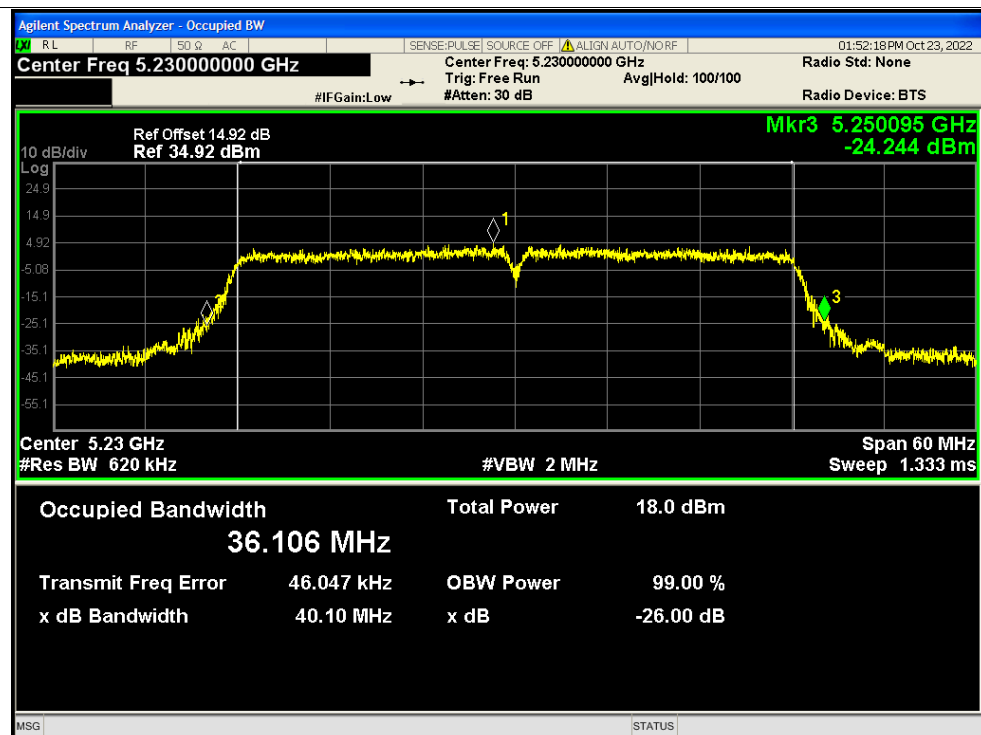




-26dB Bandwidth NVNT n40 5190MHz Ant1

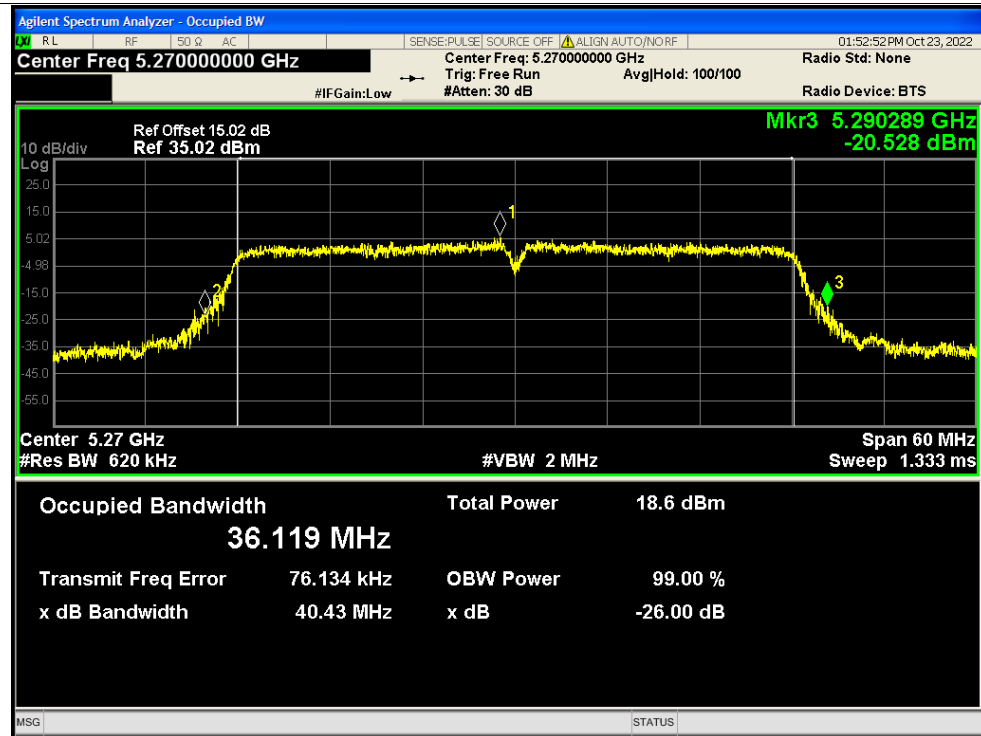


-26dB Bandwidth NVNT n40 5230MHz Ant1

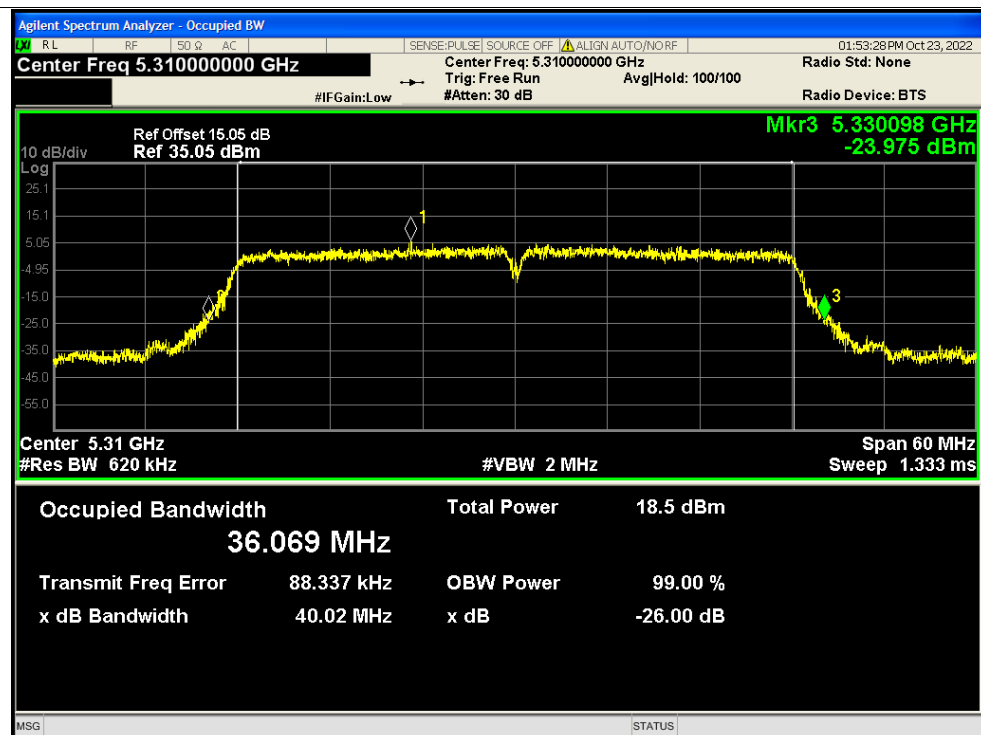




-26dB Bandwidth NVNT n40 5270MHz Ant1

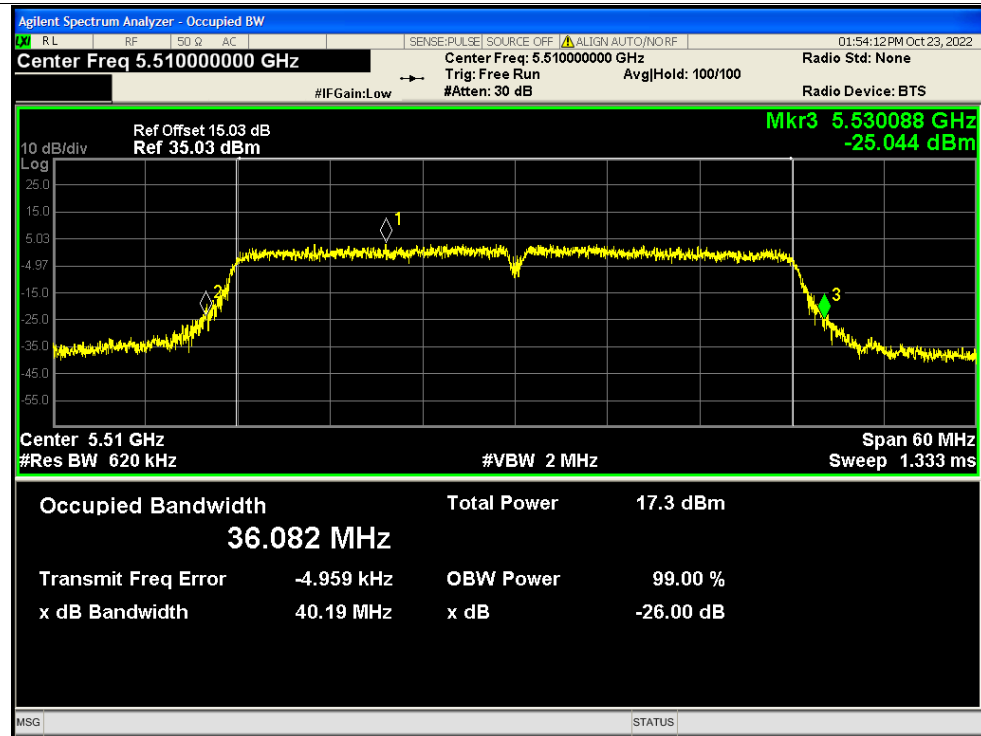


-26dB Bandwidth NVNT n40 5310MHz Ant1

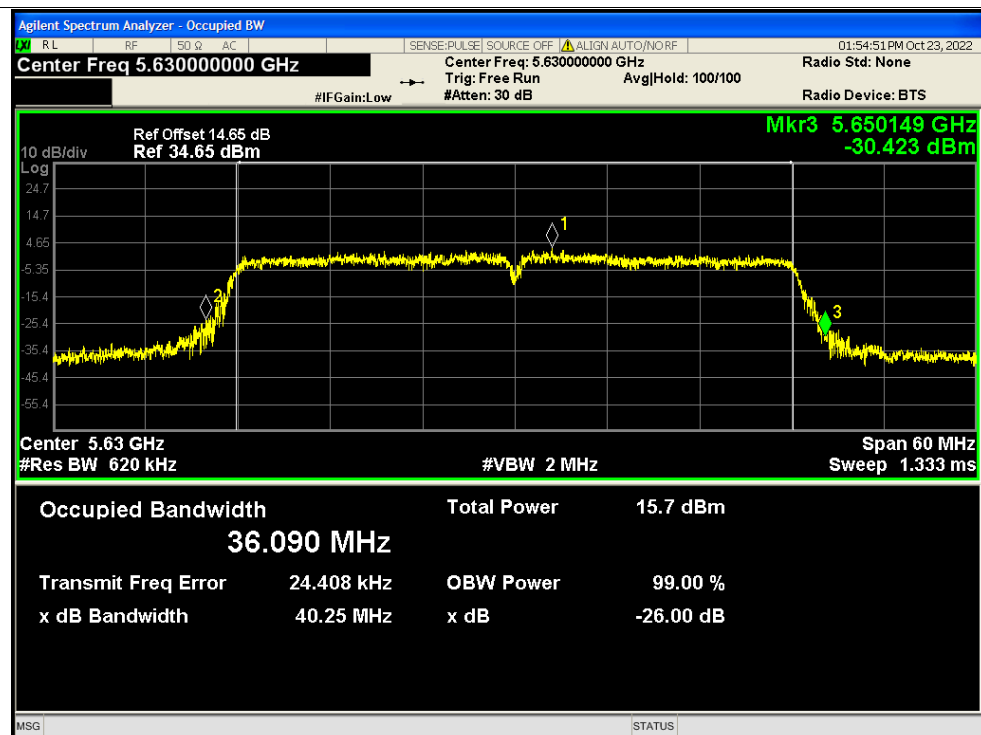


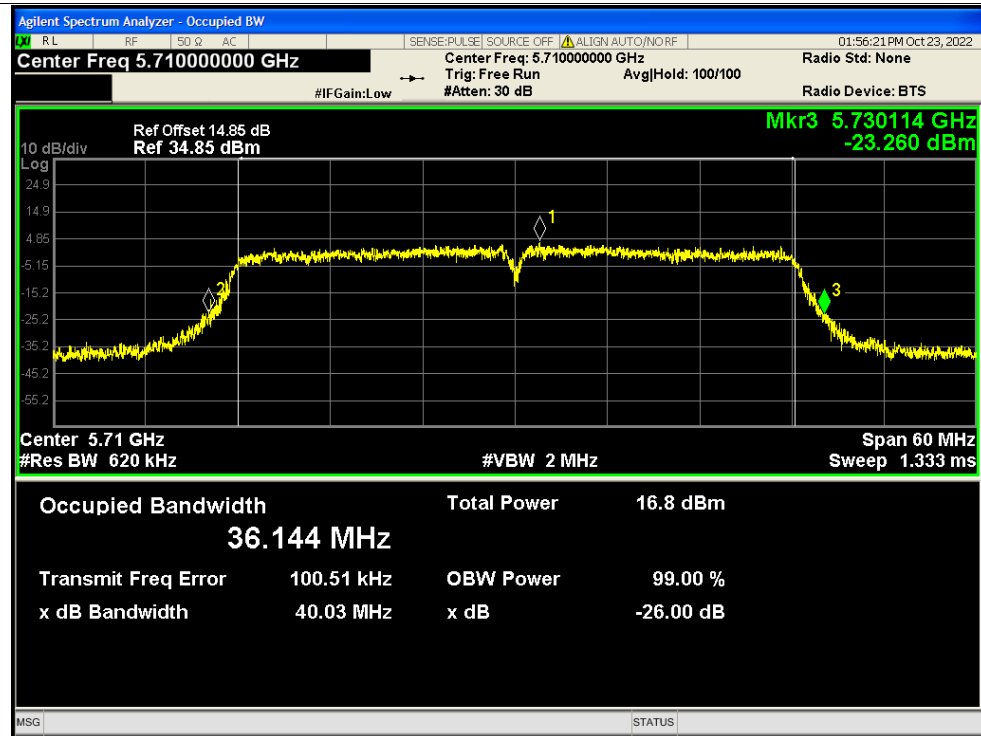
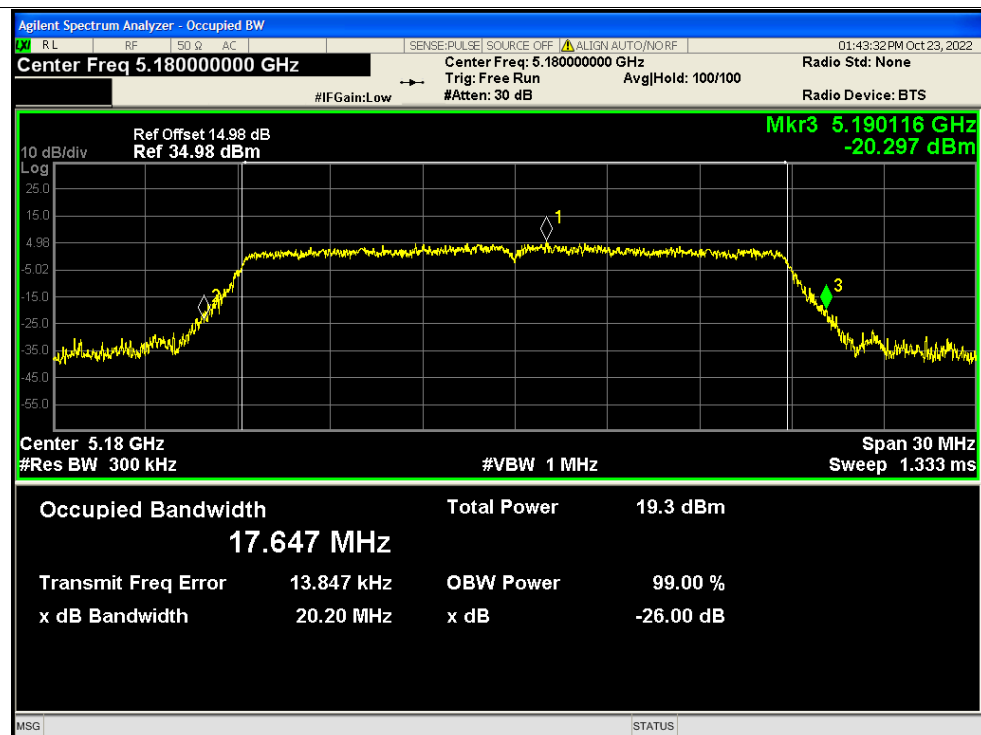


-26dB Bandwidth NVNT n40 5510MHz Ant1



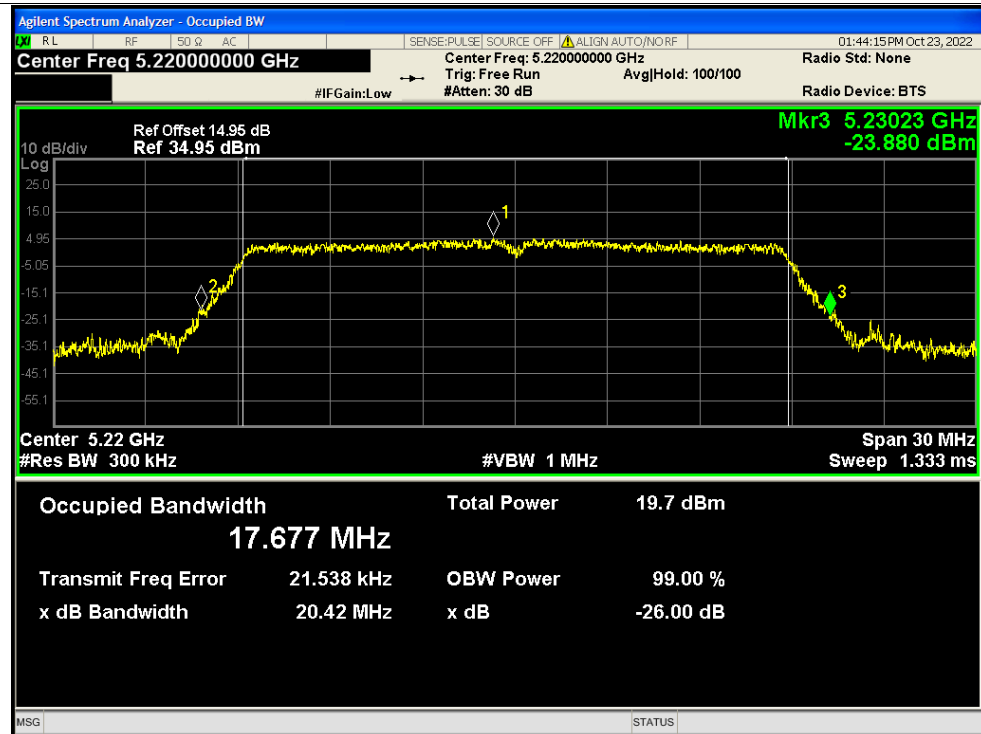
-26dB Bandwidth NVNT n40 5630MHz Ant1



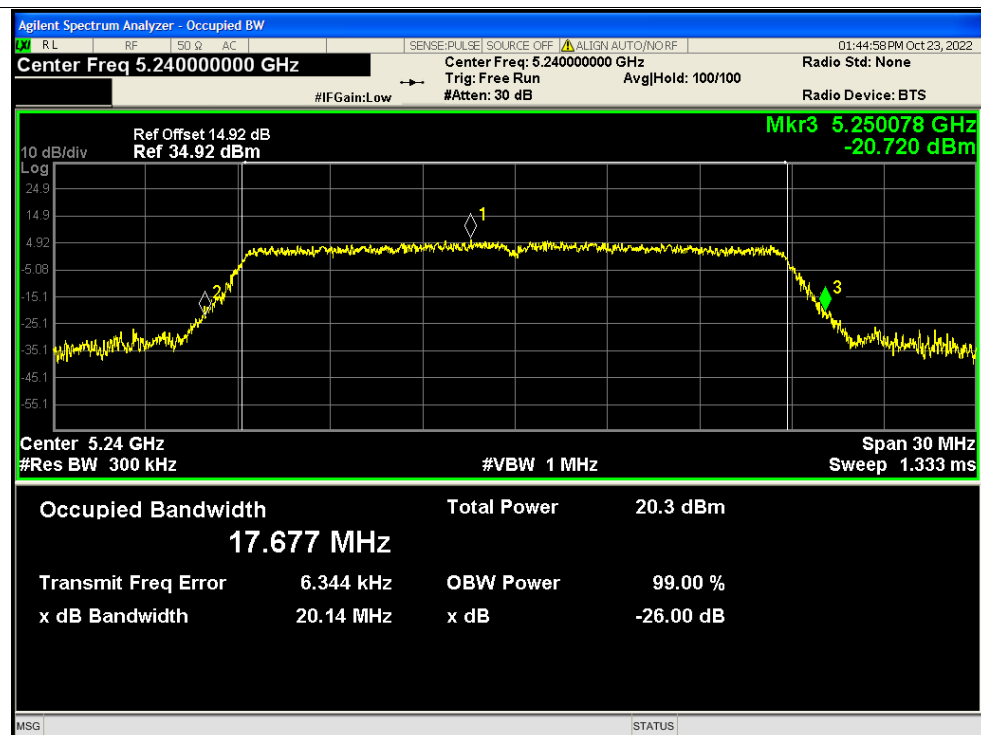
**-26dB Bandwidth NVNT n40 5710MHz Ant1****-26dB Bandwidth NVNT ac20 5180MHz Ant1**



-26dB Bandwidth NVNT ac20 5220MHz Ant1

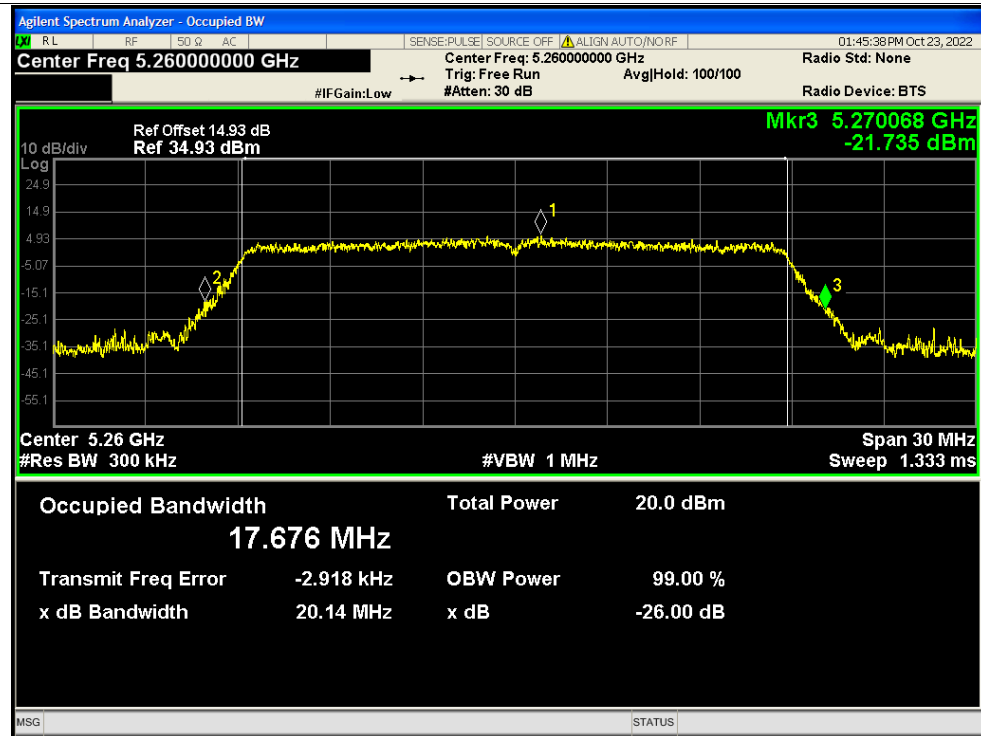


-26dB Bandwidth NVNT ac20 5240MHz Ant1

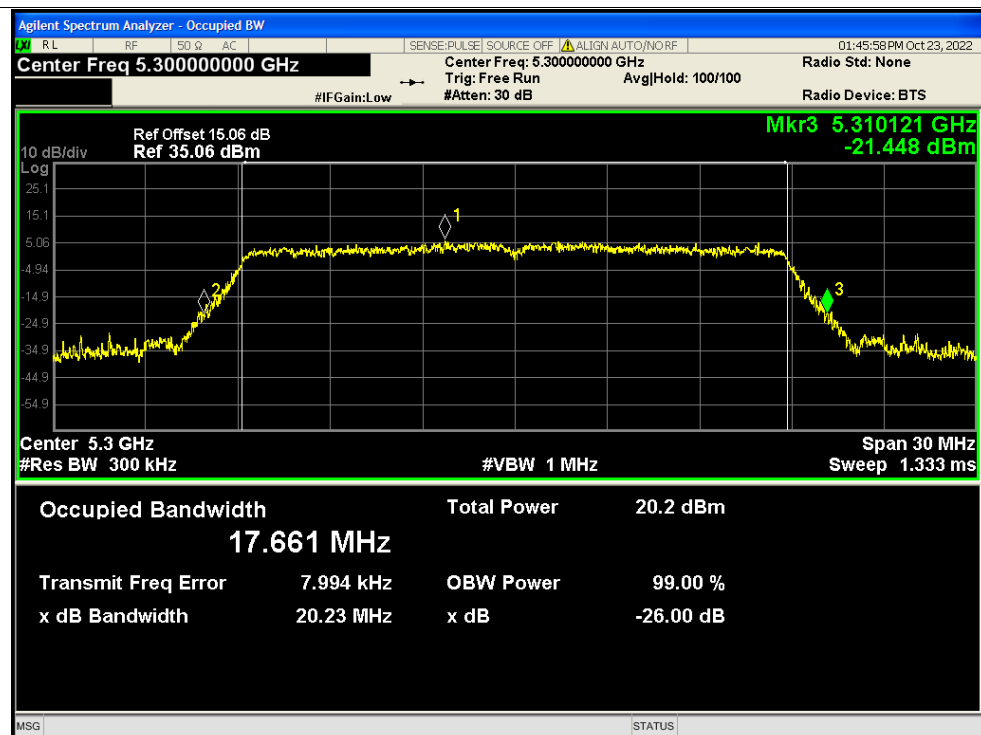




-26dB Bandwidth NVNT ac20 5260MHz Ant1

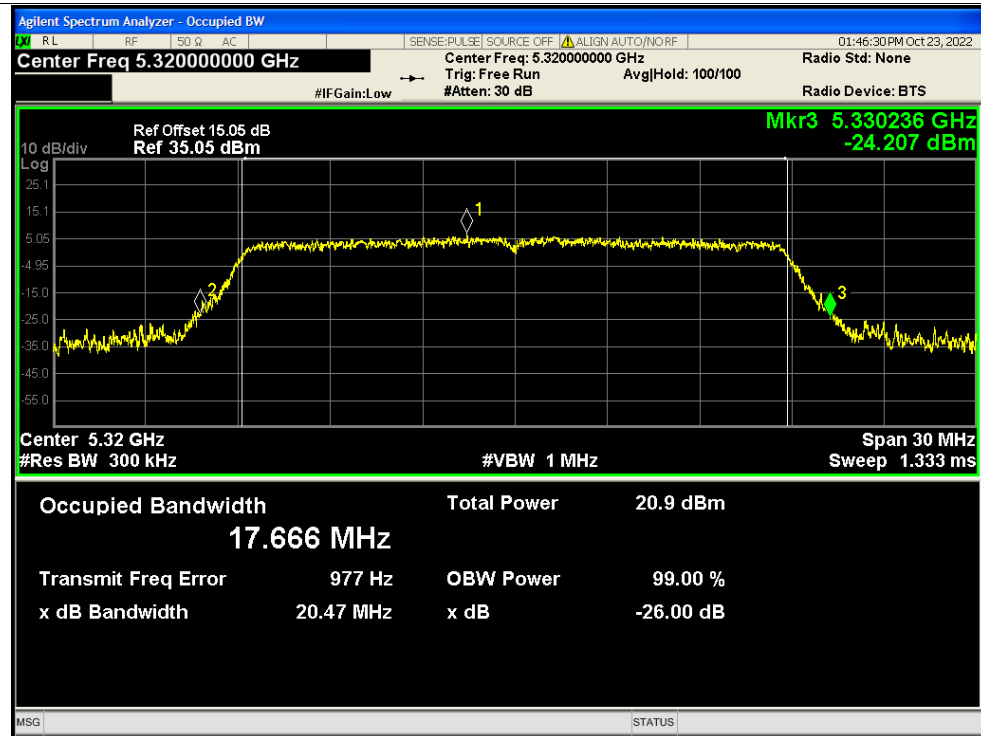


-26dB Bandwidth NVNT ac20 5300MHz Ant1

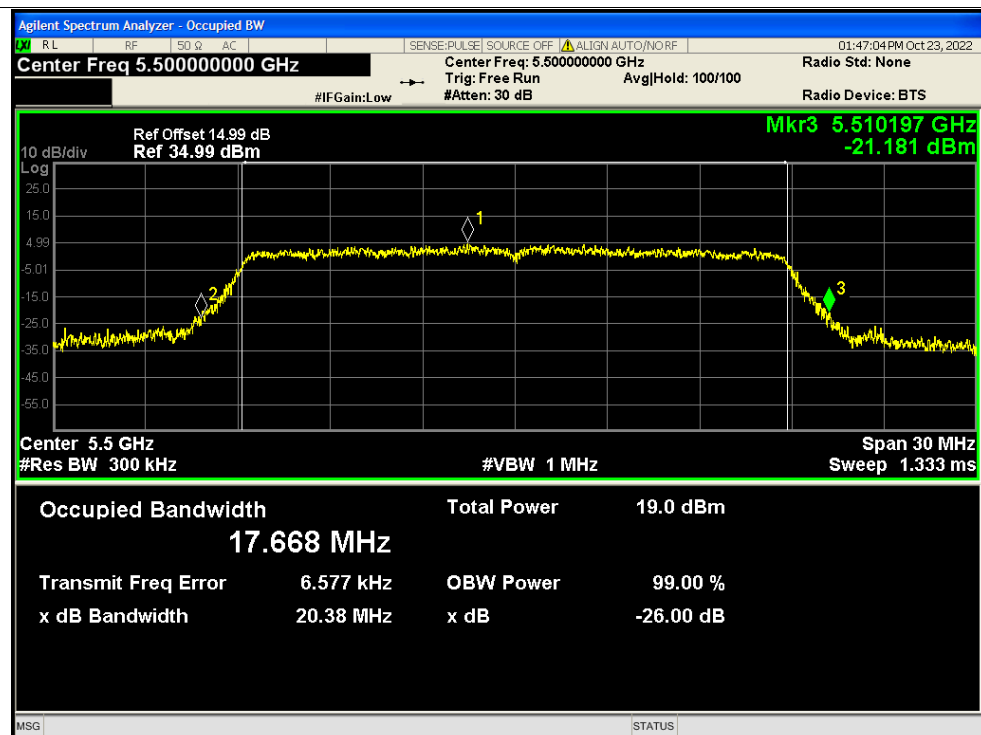




-26dB Bandwidth NVNT ac20 5320MHz Ant1

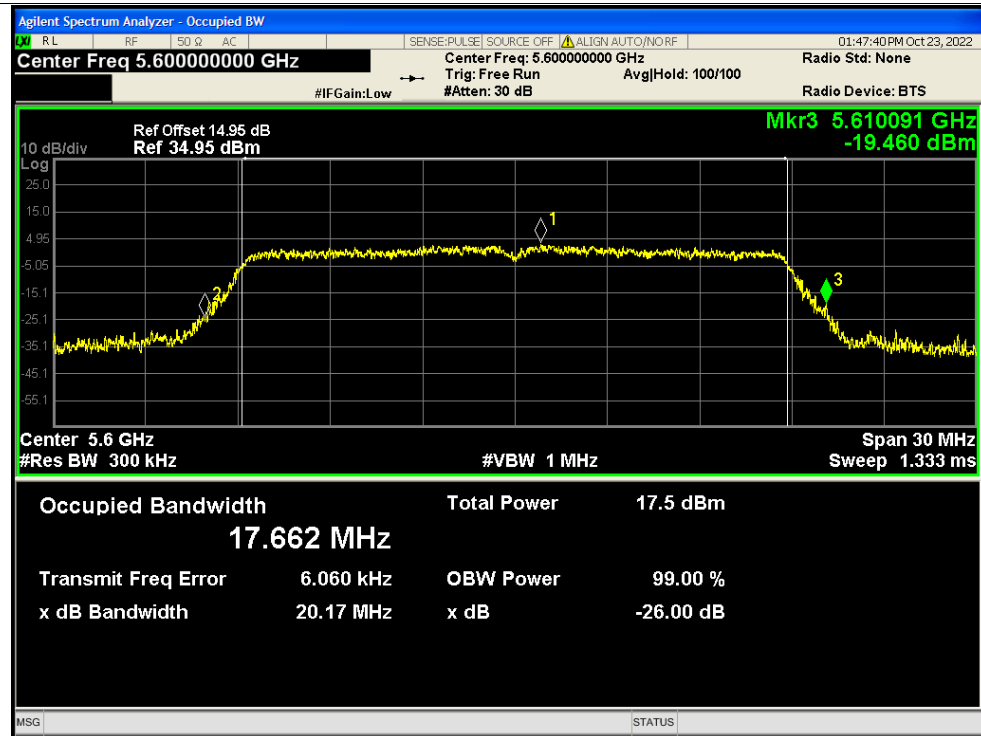


-26dB Bandwidth NVNT ac20 5500MHz Ant1

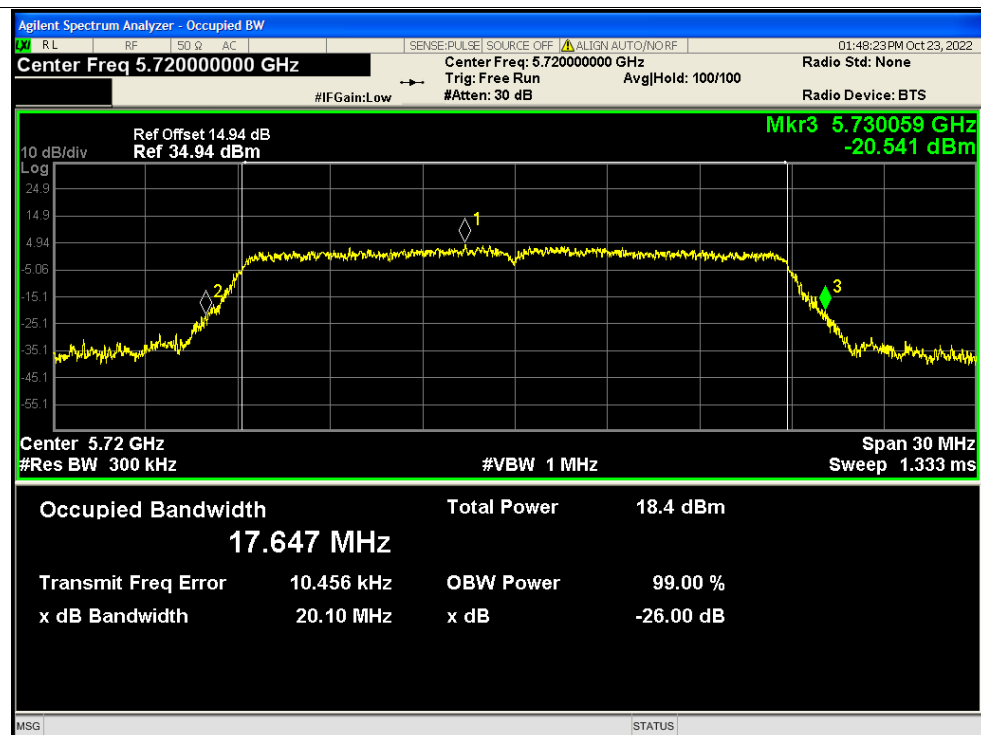




-26dB Bandwidth NVNT ac20 5600MHz Ant1

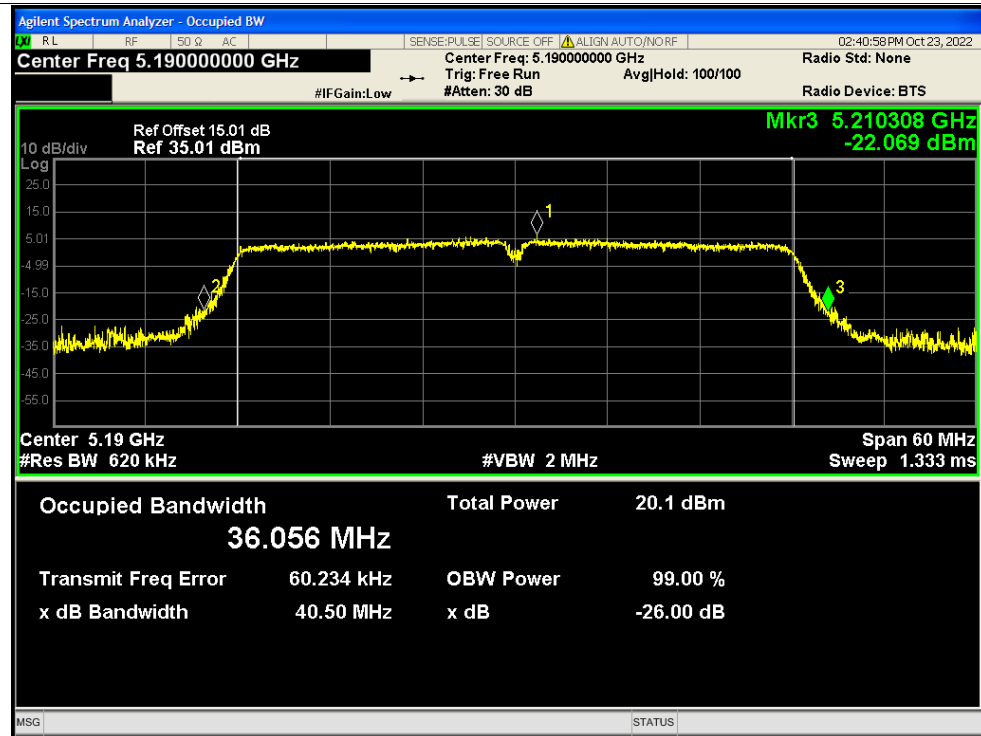


-26dB Bandwidth NVNT ac20 5720MHz Ant1

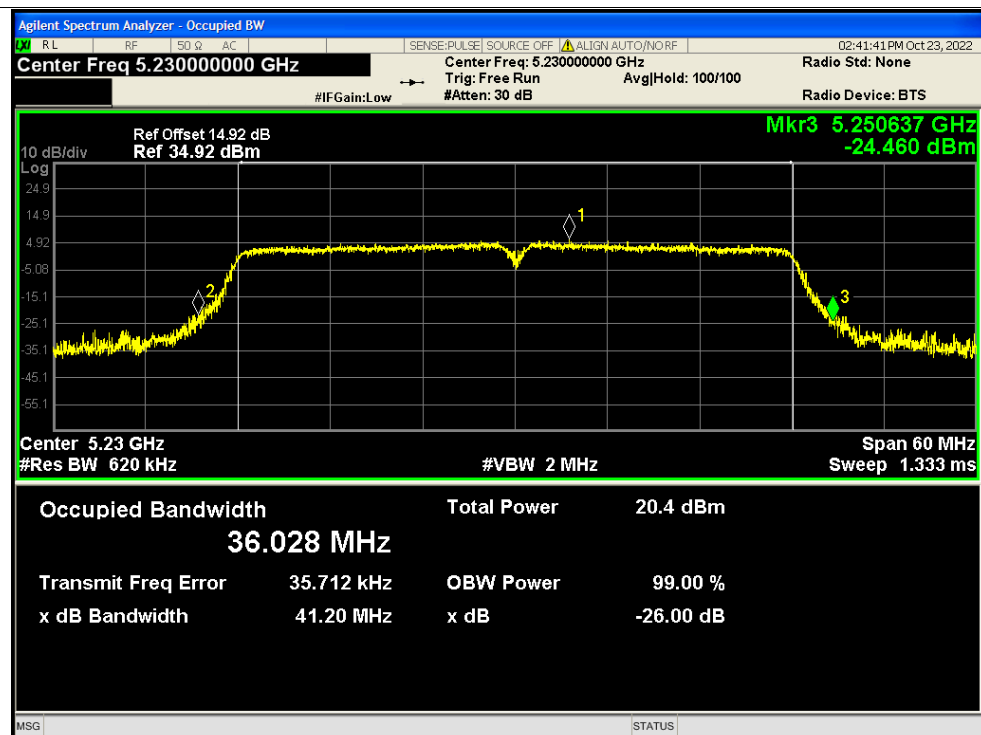




-26dB Bandwidth NVNT ac40 5190MHz Ant1

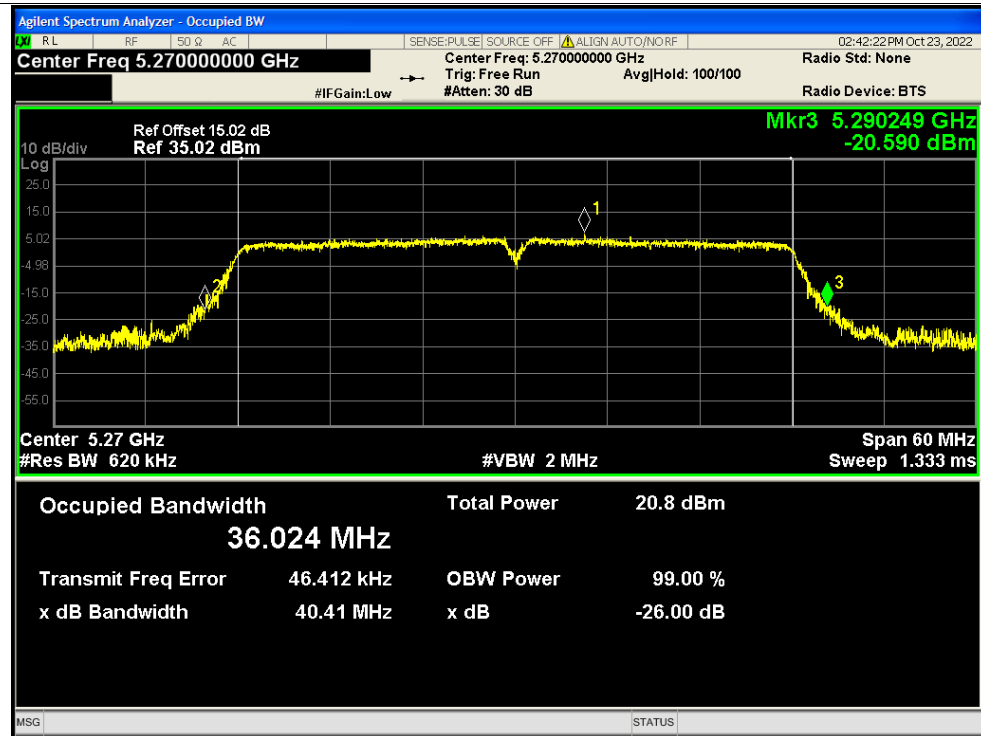


-26dB Bandwidth NVNT ac40 5230MHz Ant1

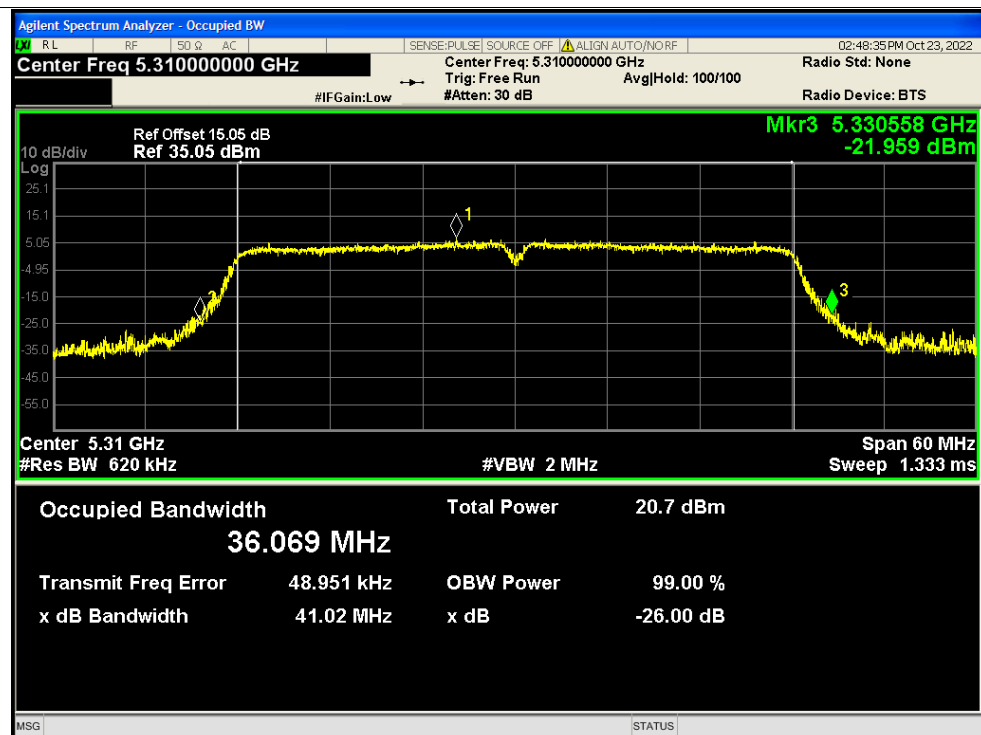




-26dB Bandwidth NVNT ac40 5270MHz Ant1

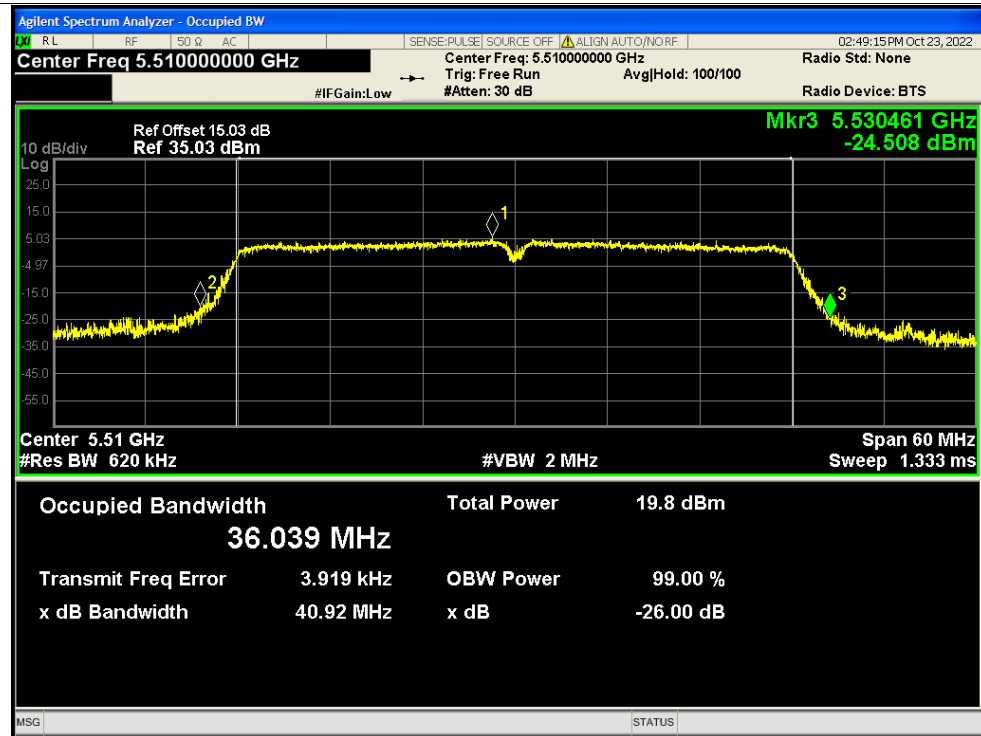


-26dB Bandwidth NVNT ac40 5310MHz Ant1

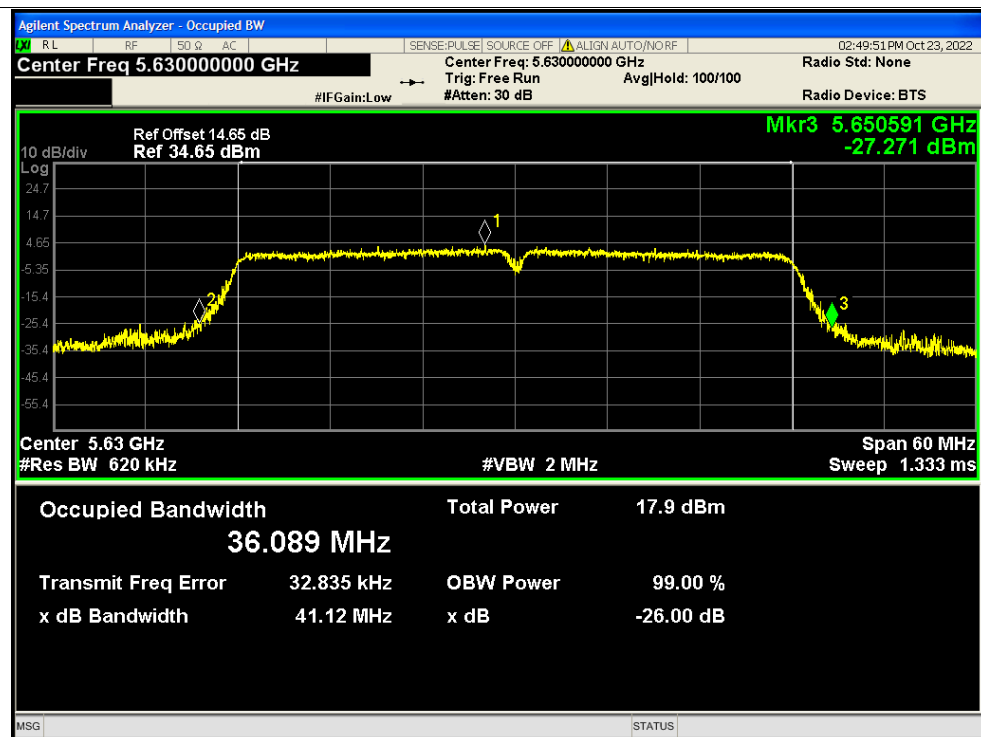




-26dB Bandwidth NVNT ac40 5510MHz Ant1

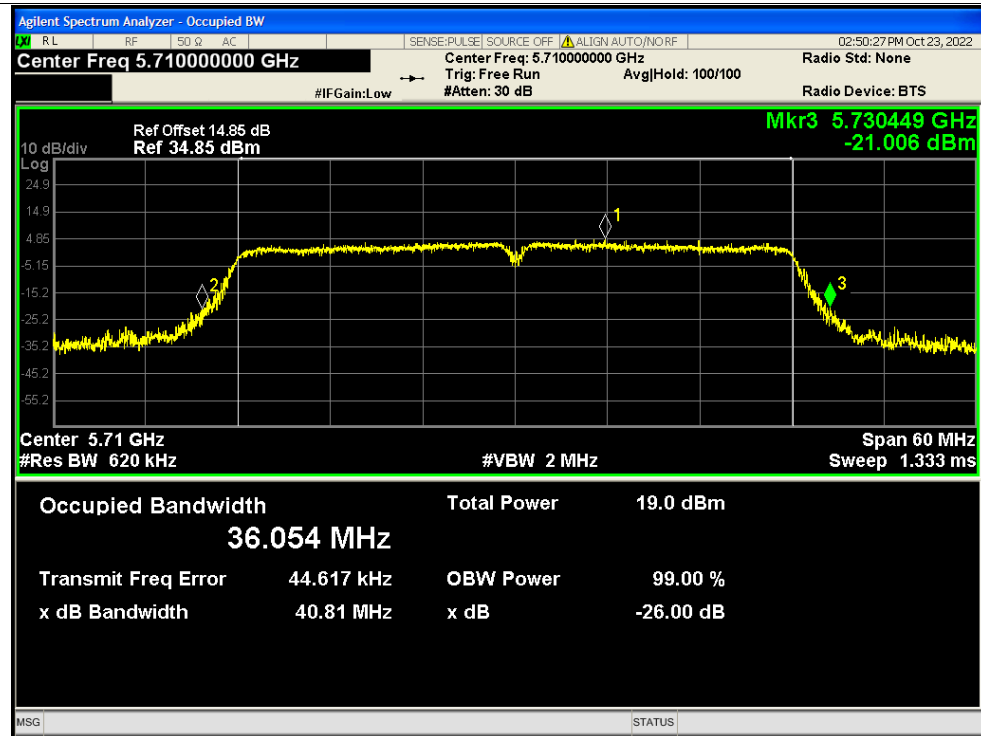


-26dB Bandwidth NVNT ac40 5630MHz Ant1

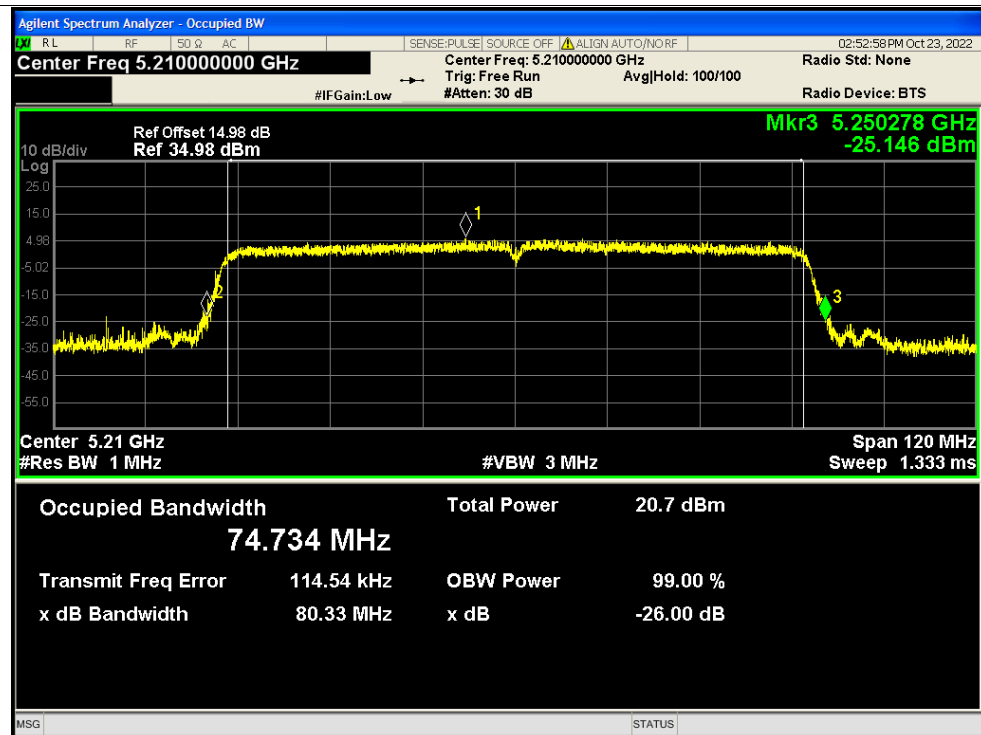




-26dB Bandwidth NVNT ac40 5710MHz Ant1

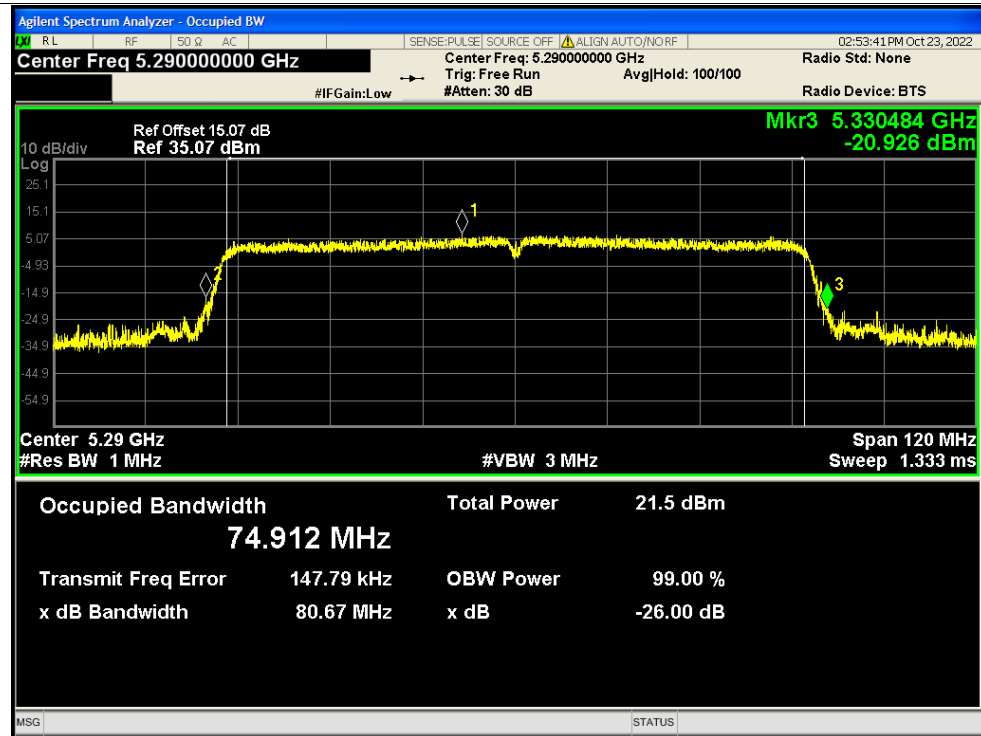


-26dB Bandwidth NVNT ac80 5210MHz Ant1

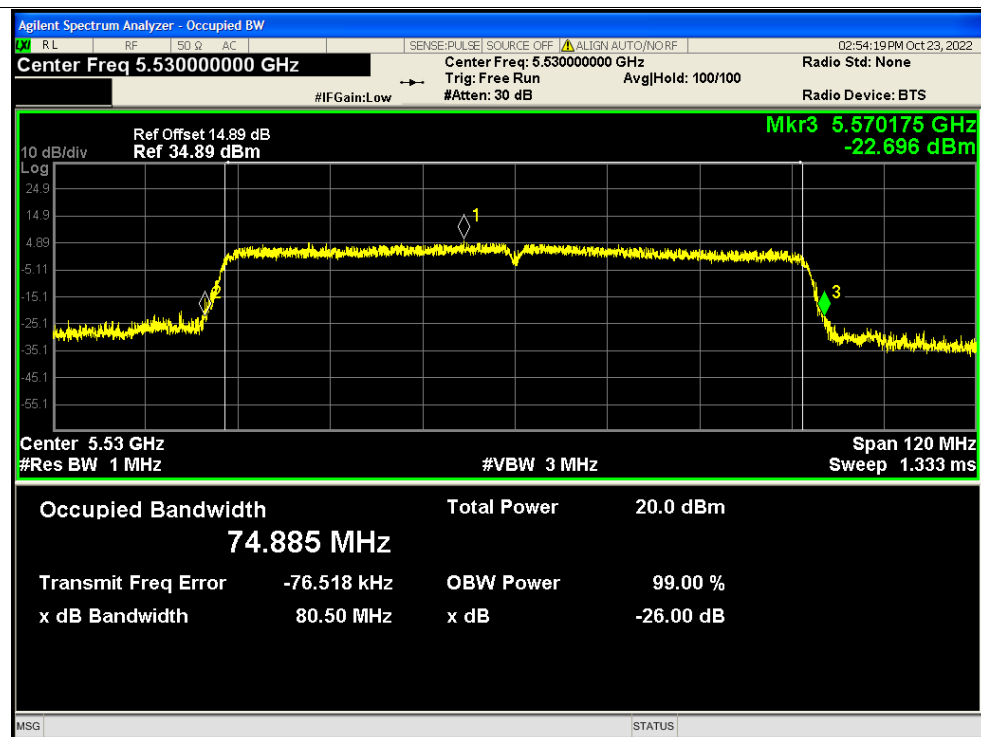




-26dB Bandwidth NVNT ac80 5290MHz Ant1

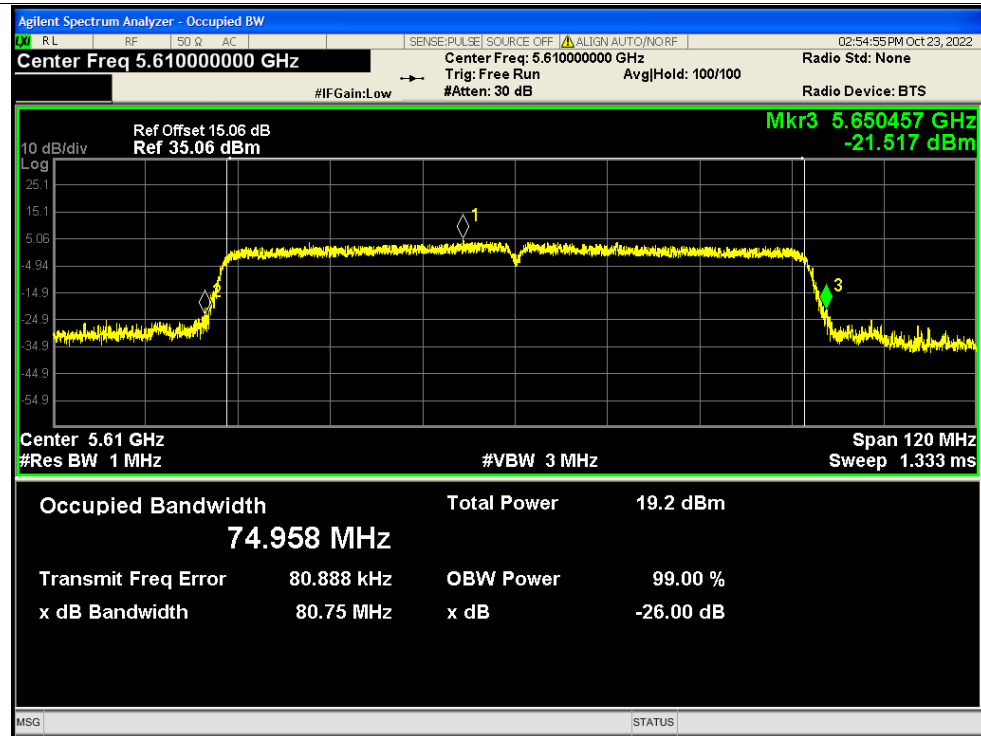


-26dB Bandwidth NVNT ac80 5530MHz Ant1

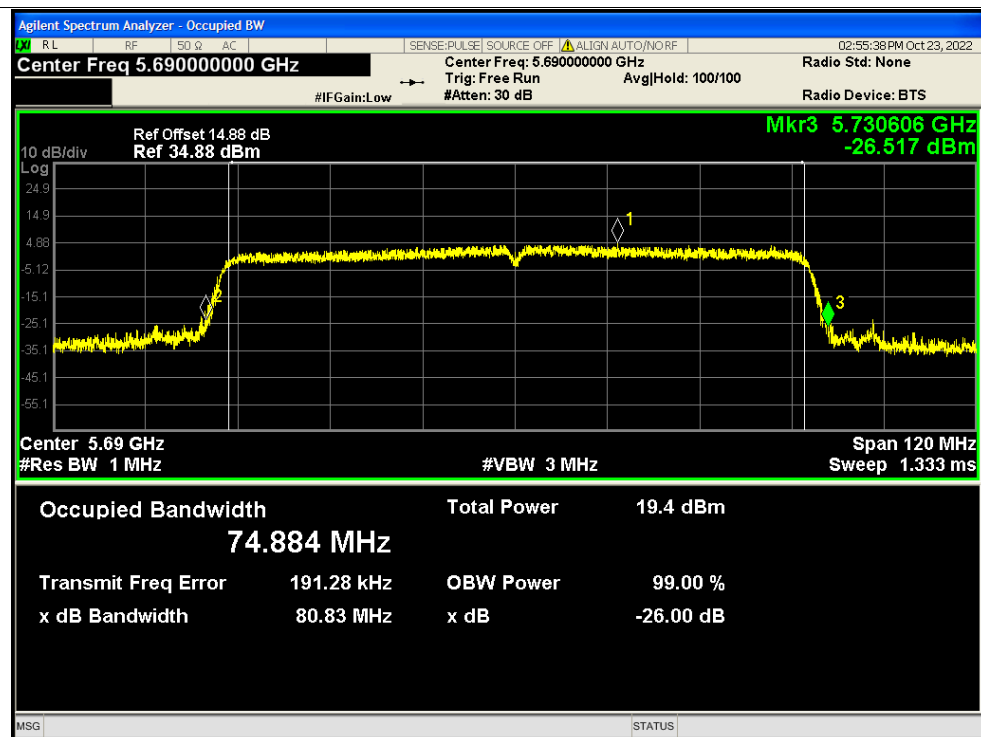




-26dB Bandwidth NVNT ac80 5610MHz Ant1



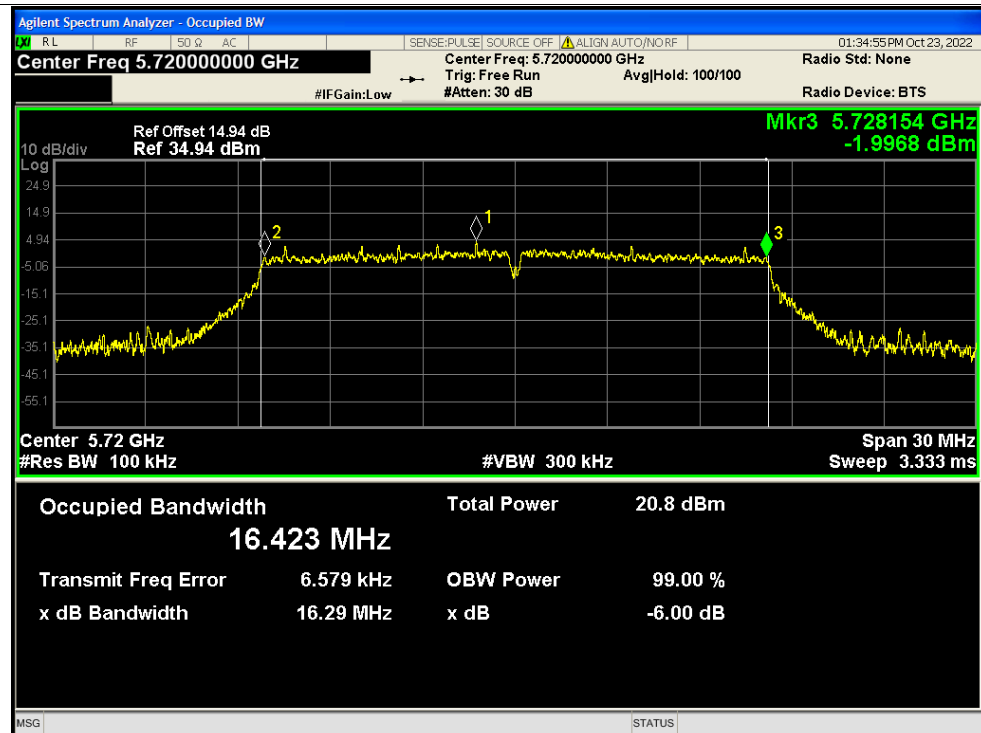
-26dB Bandwidth NVNT ac80 5690MHz Ant1



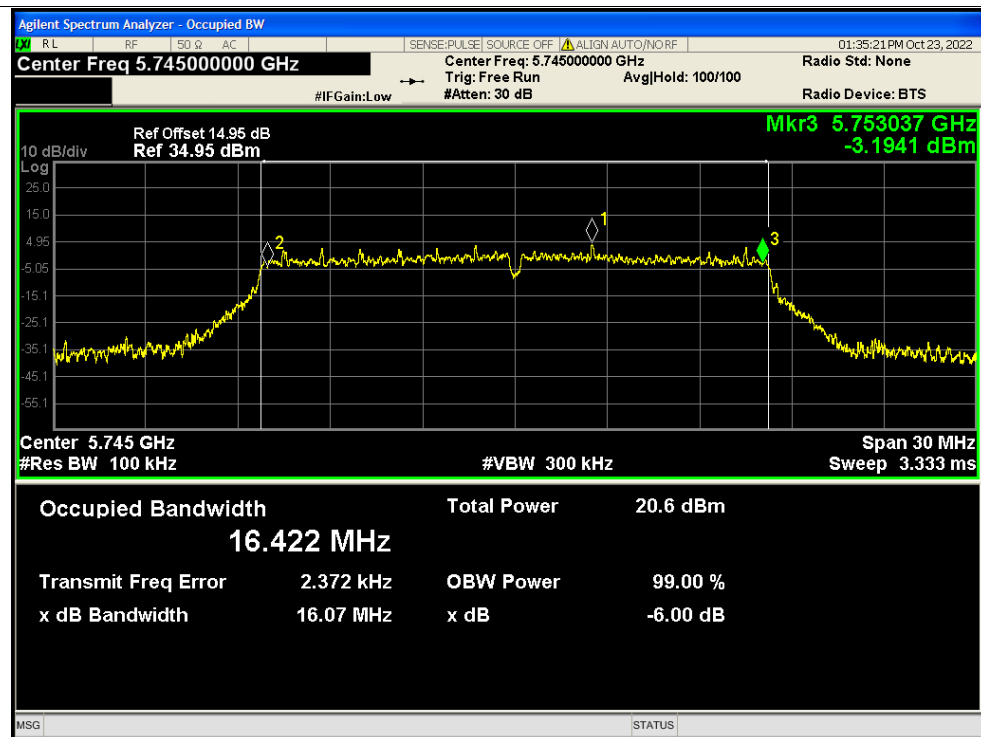


Test Graphs

-6dB Bandwidth NVNT a 5720MHz Ant1

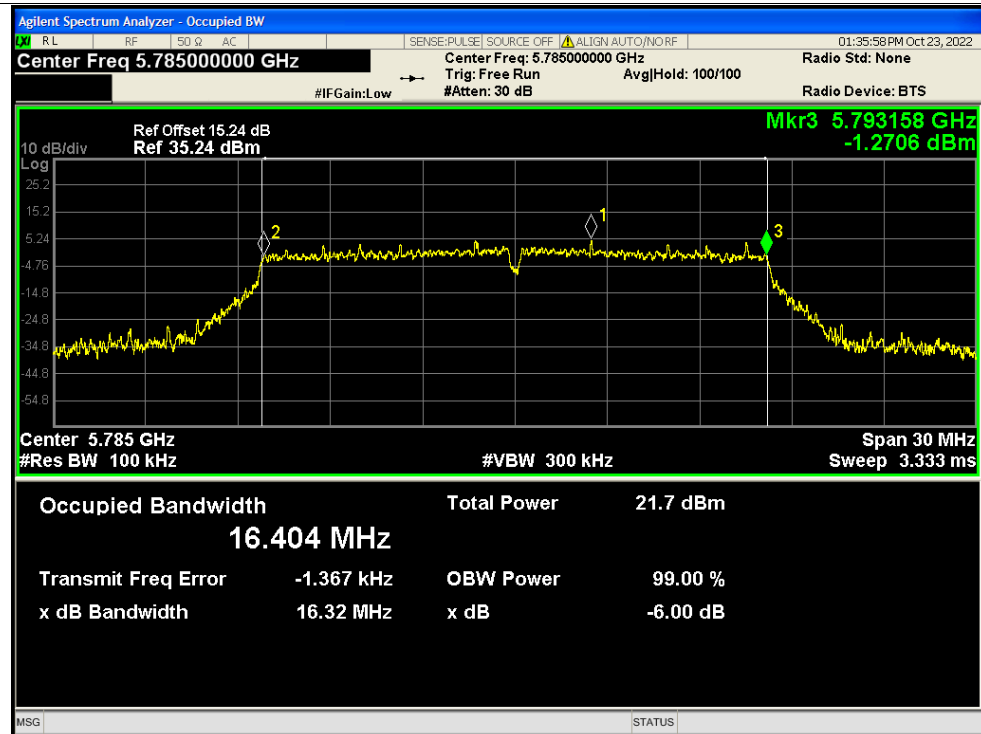


-6dB Bandwidth NVNT a 5745MHz Ant1

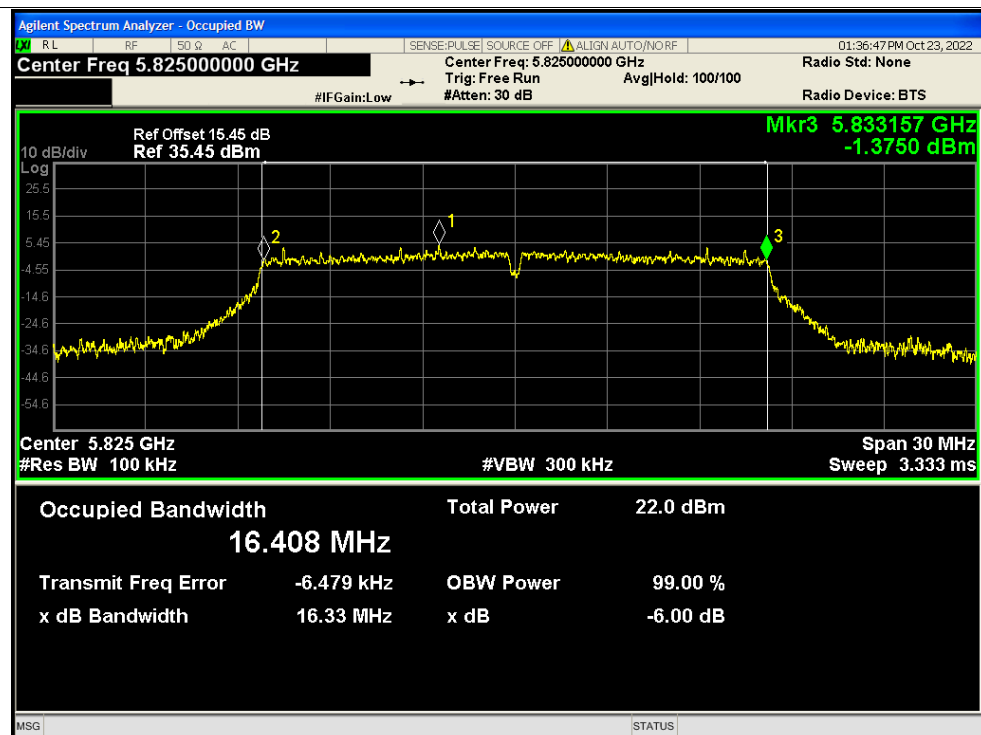




-6dB Bandwidth NVNT a 5785MHz Ant1

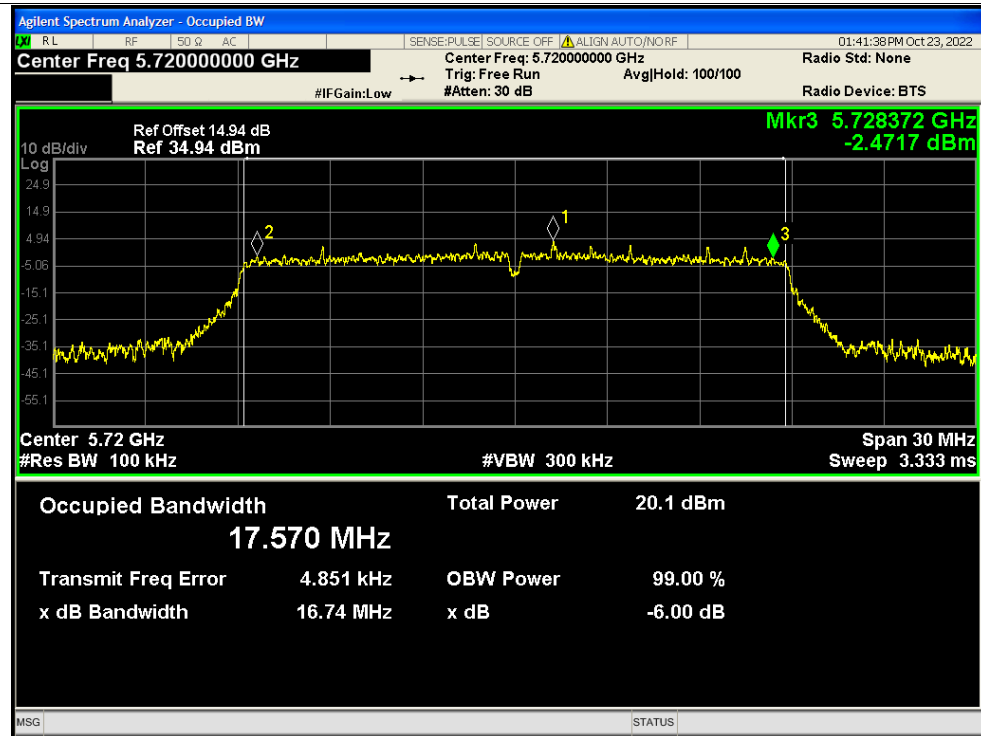


-6dB Bandwidth NVNT a 5825MHz Ant1

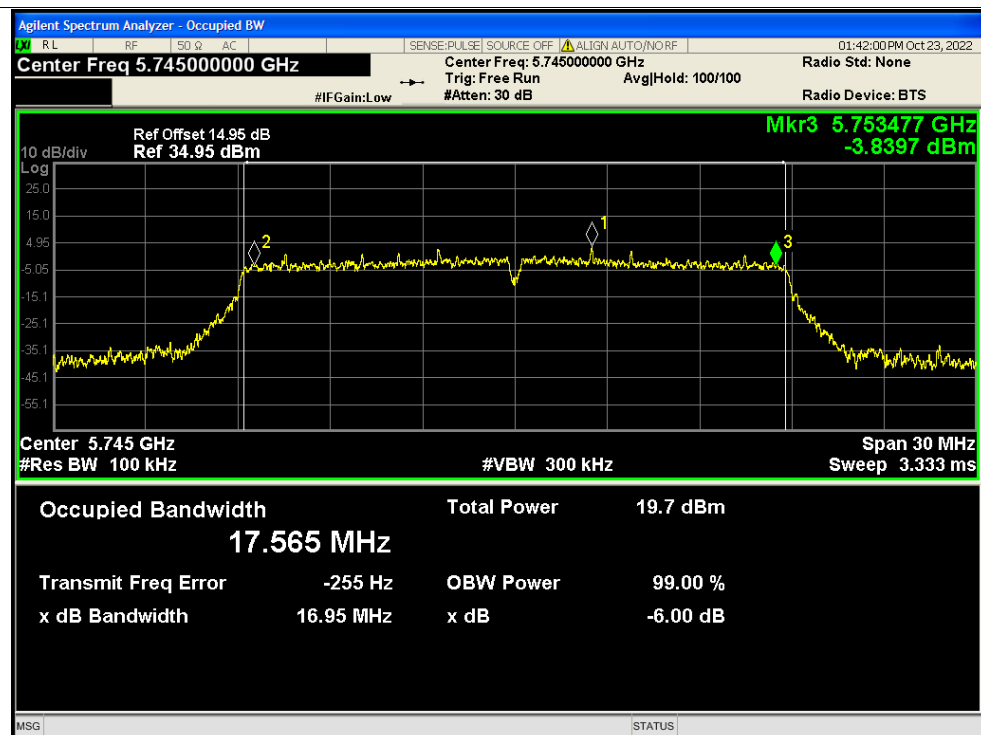




-6dB Bandwidth NVNT n20 5720MHz Ant1

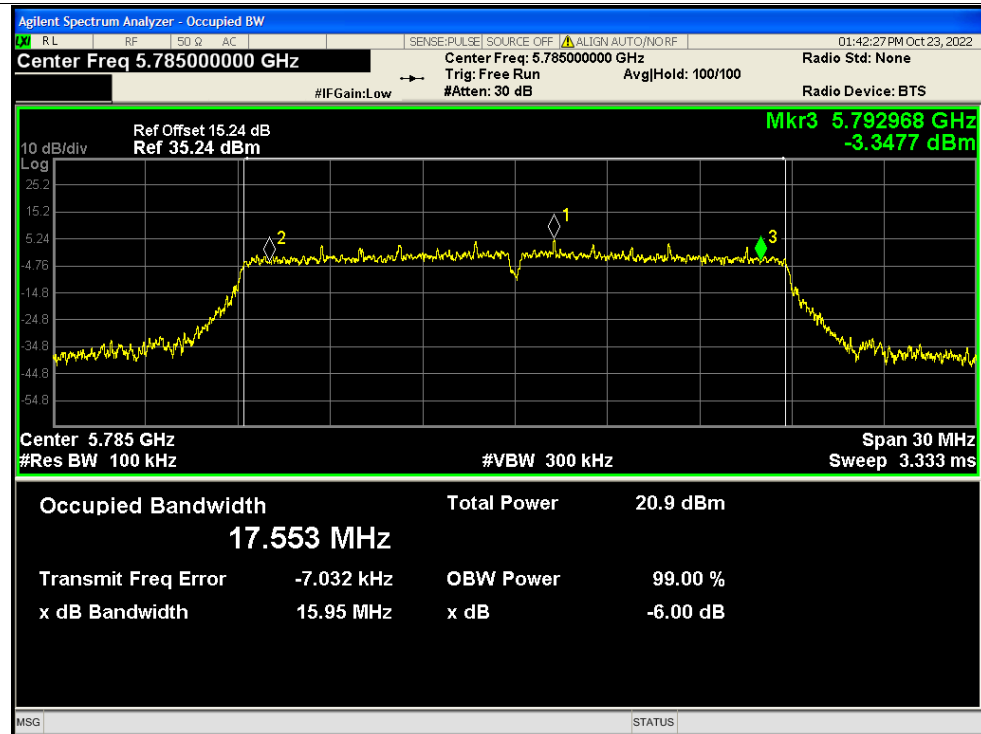


-6dB Bandwidth NVNT n20 5745MHz Ant1

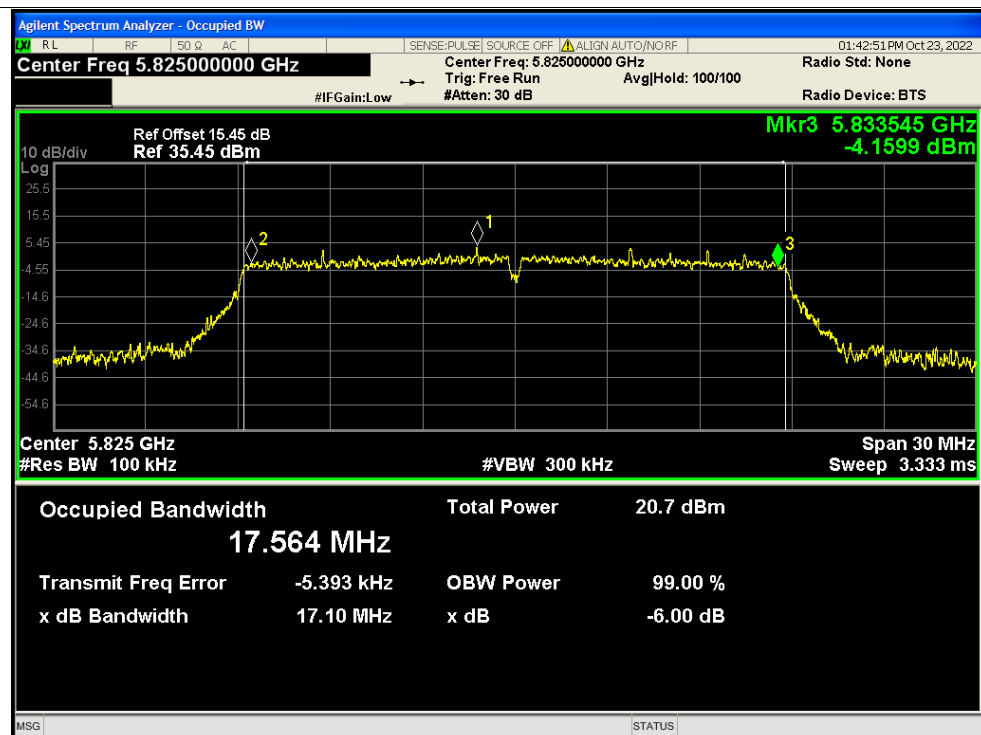




-6dB Bandwidth NVNT n20 5785MHz Ant1

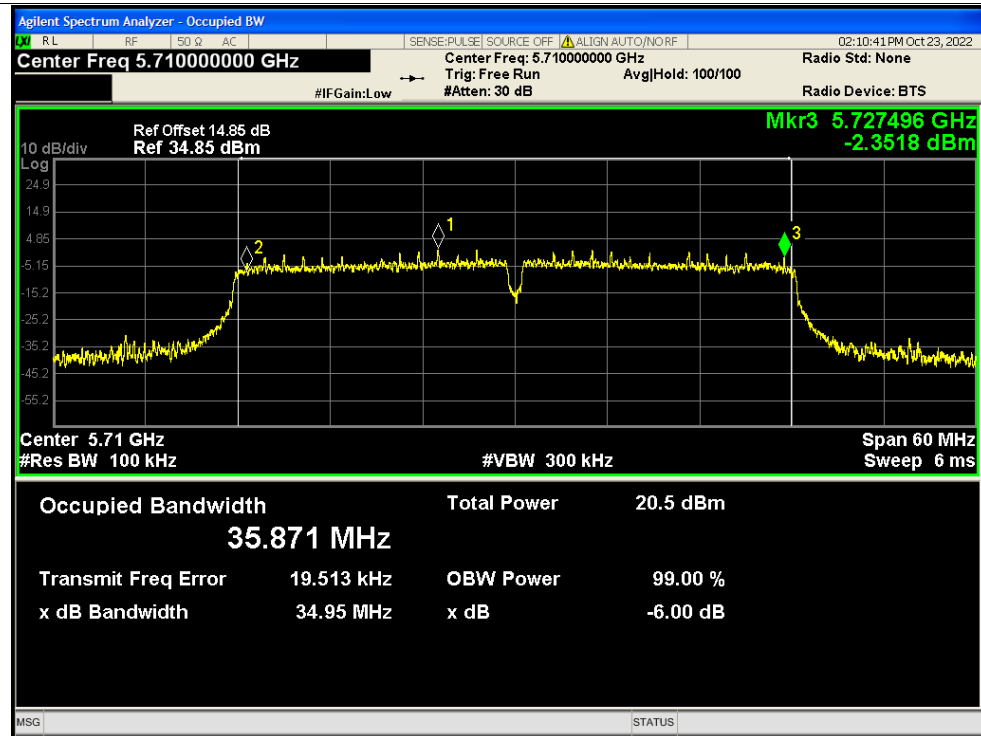


-6dB Bandwidth NVNT n20 5825MHz Ant1

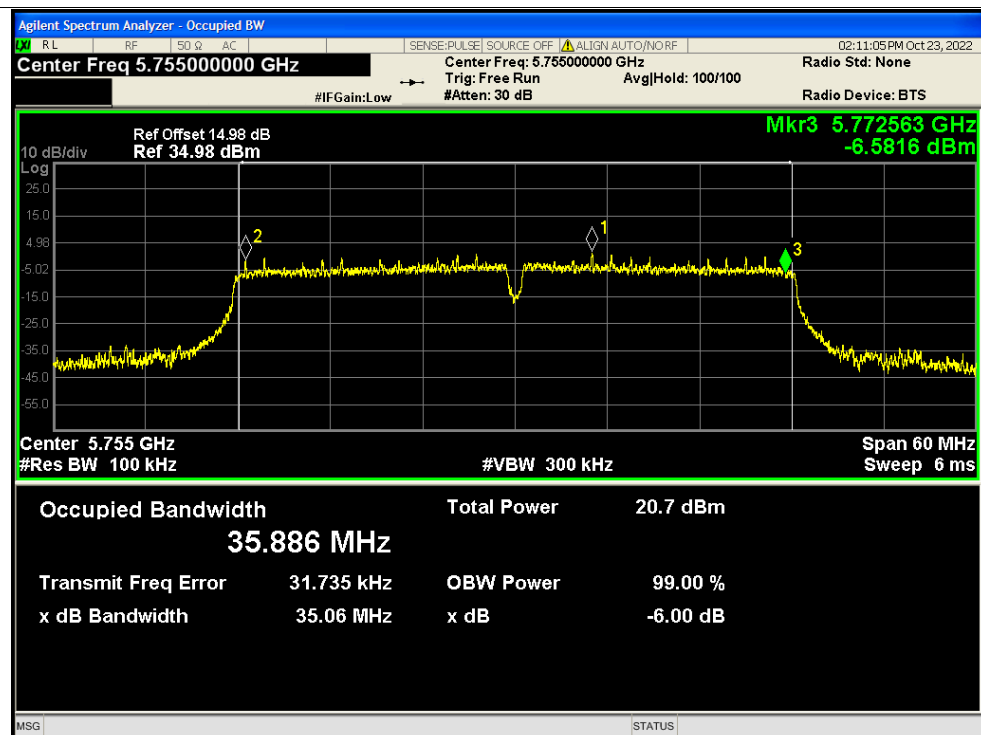




-6dB Bandwidth NVNT n40 5710MHz Ant1

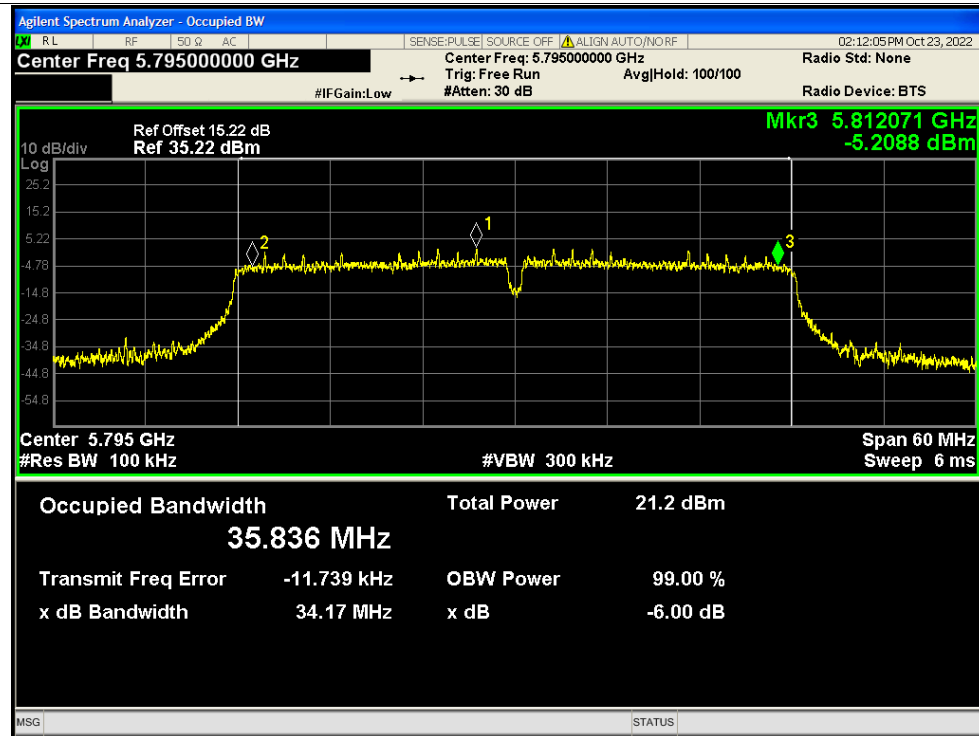


-6dB Bandwidth NVNT n40 5755MHz Ant1

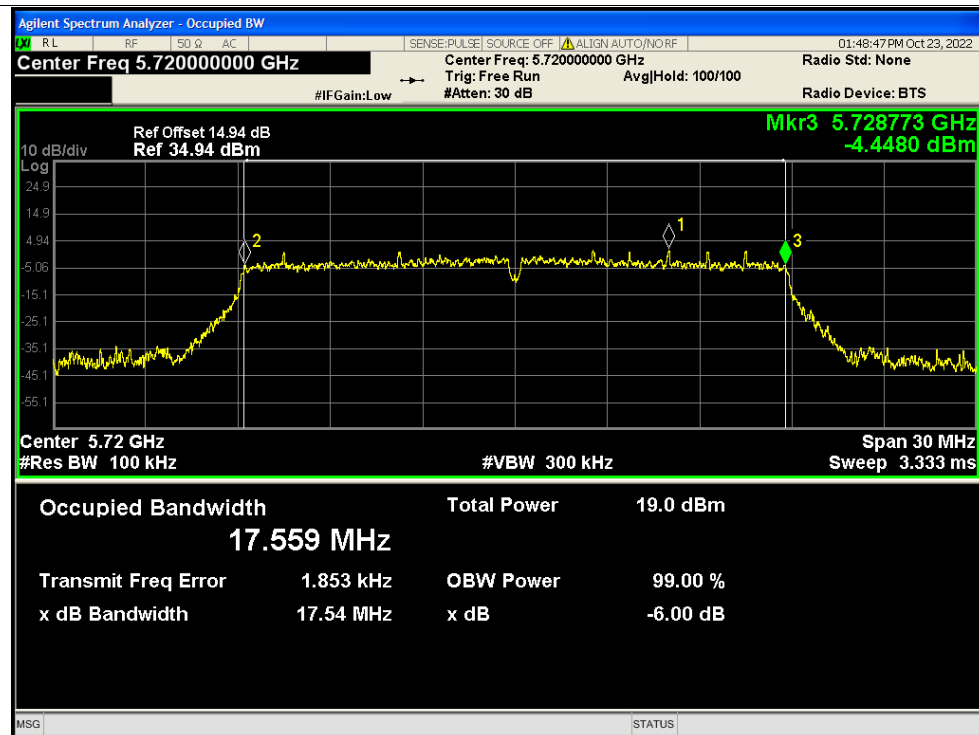




-6dB Bandwidth NVNT n40 5795MHz Ant1

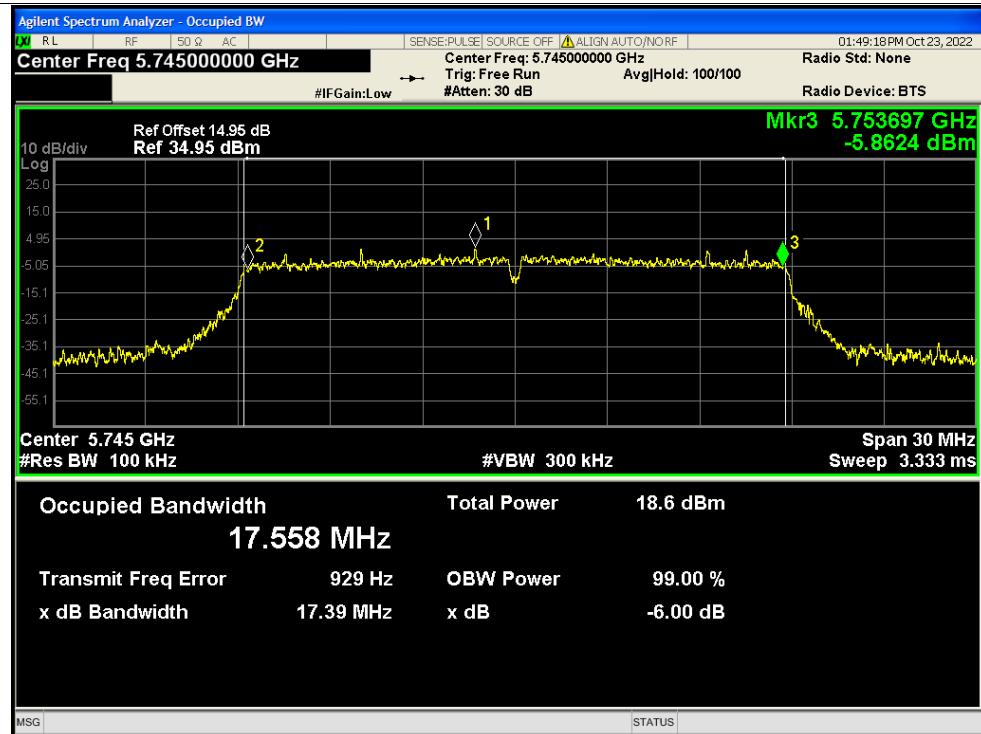


-6dB Bandwidth NVNT ac20 5720MHz Ant1

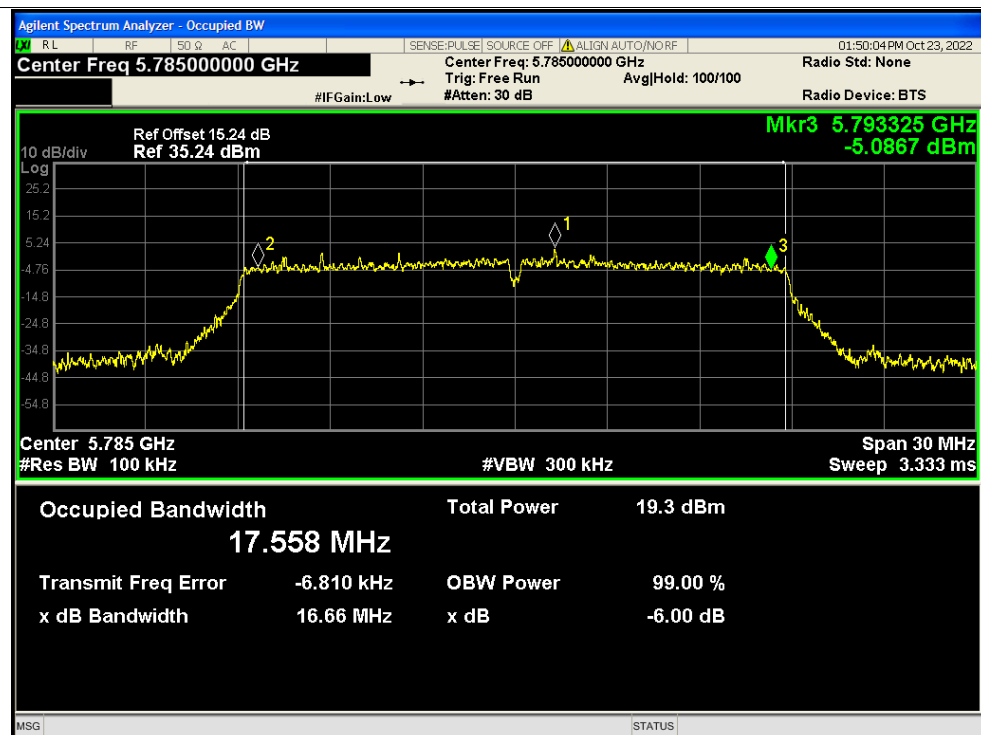




-6dB Bandwidth NVNT ac20 5745MHz Ant1

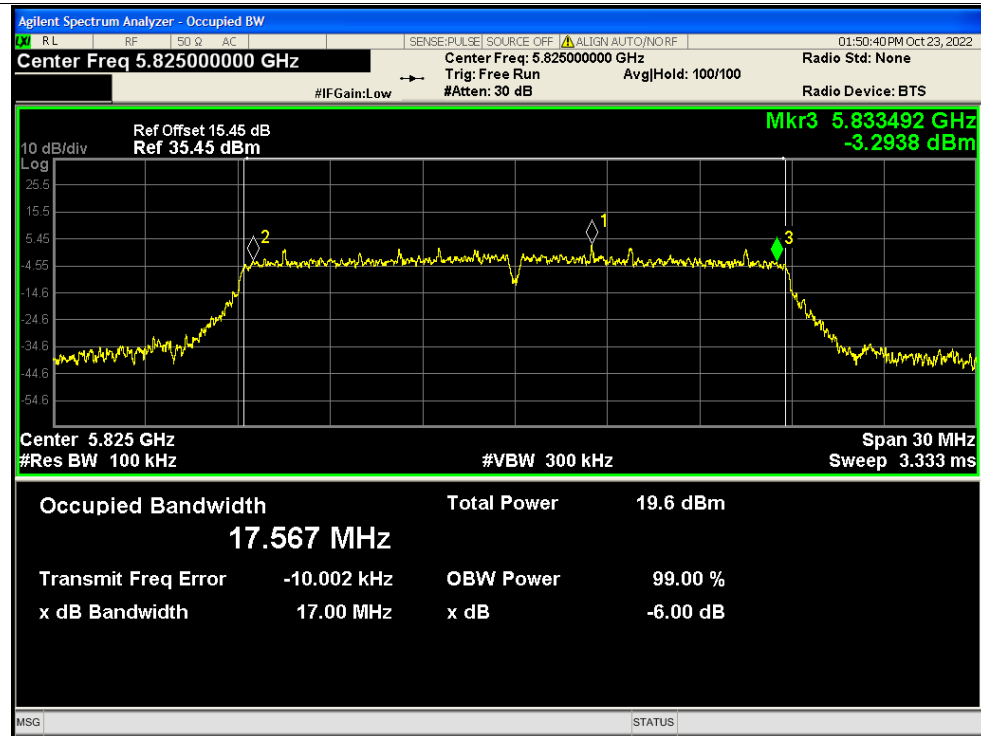


-6dB Bandwidth NVNT ac20 5785MHz Ant1

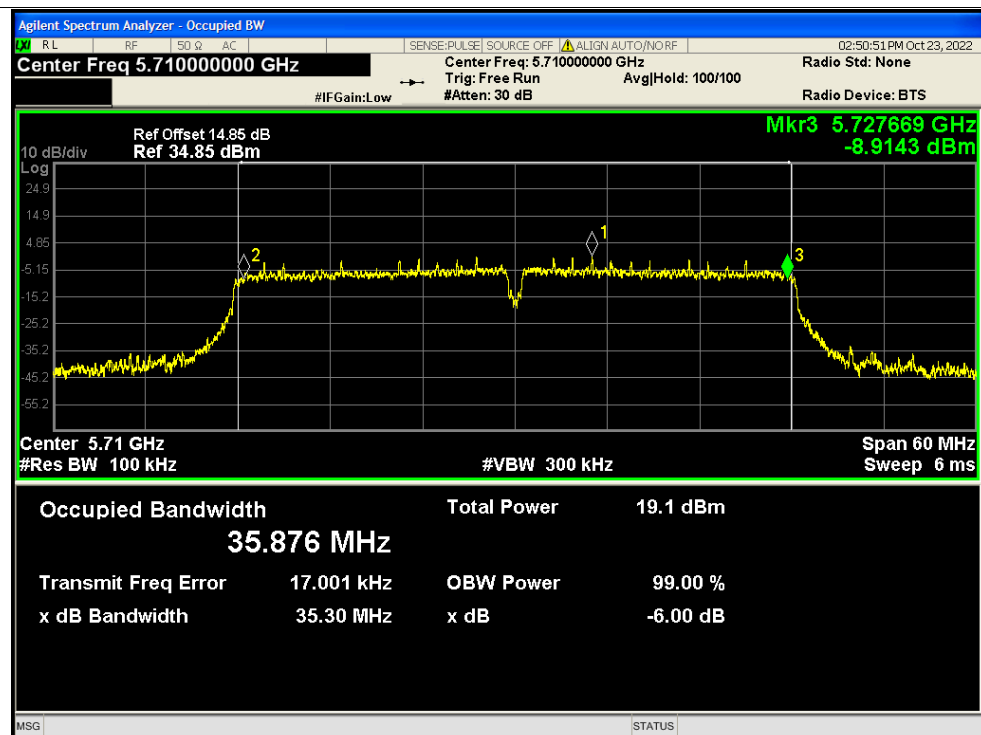




-6dB Bandwidth NVNT ac20 5825MHz Ant1

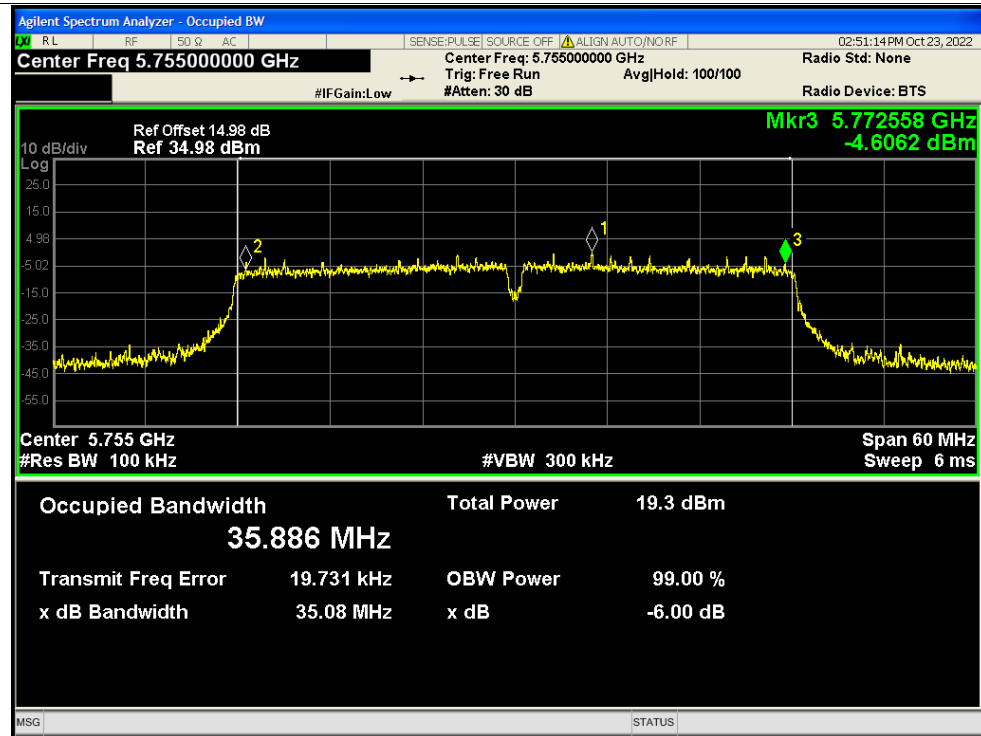


-6dB Bandwidth NVNT ac40 5710MHz Ant1

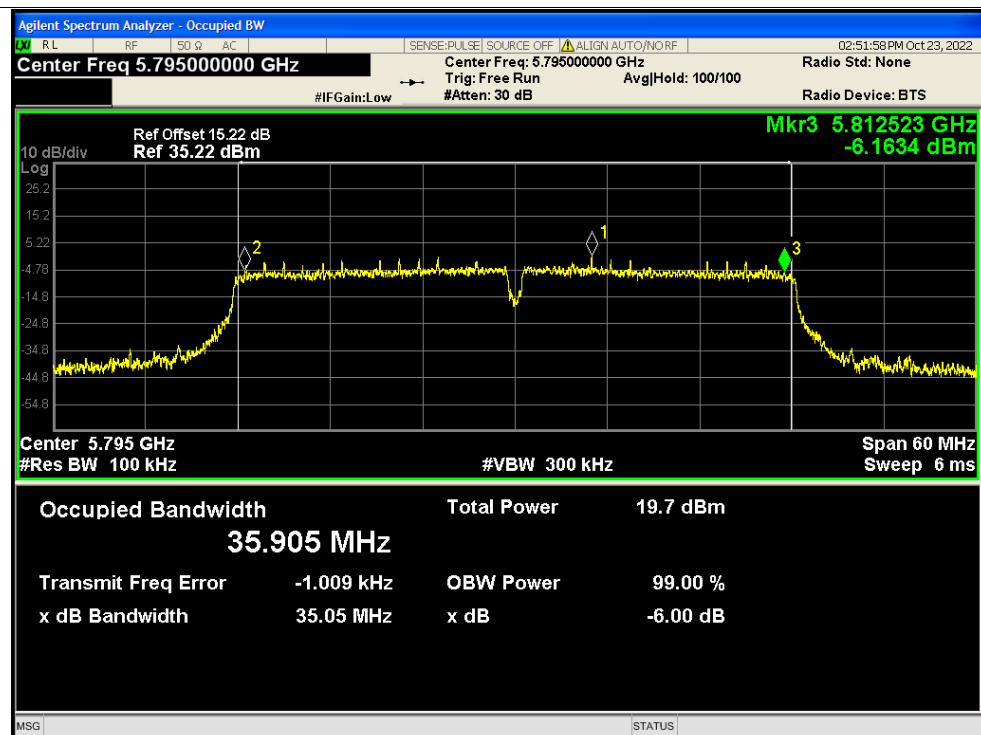


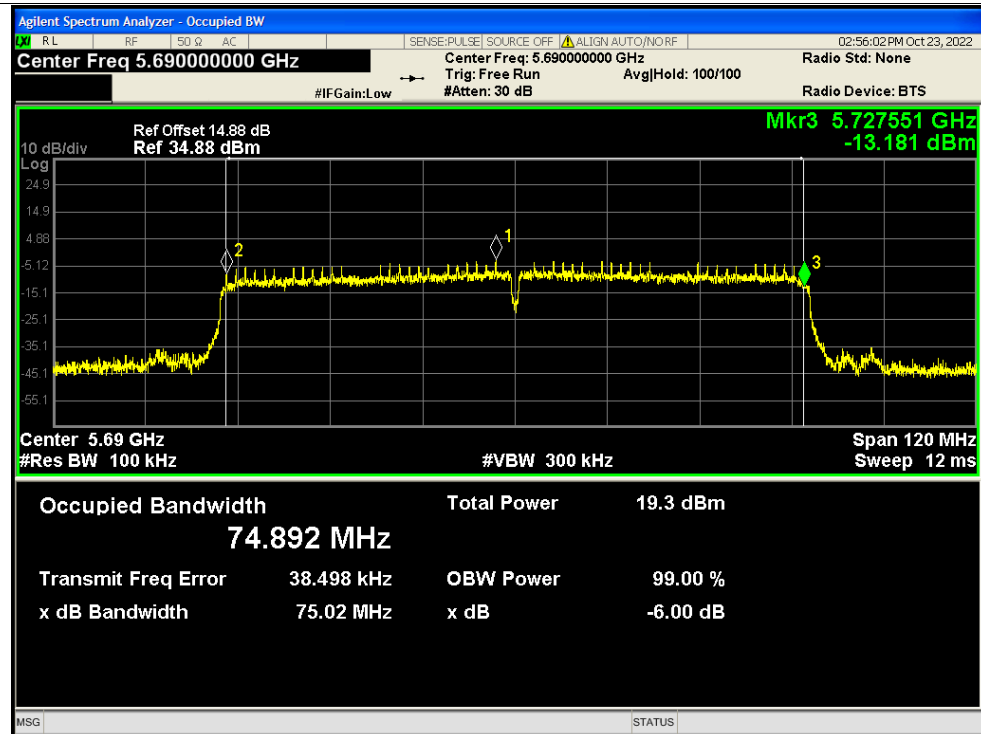
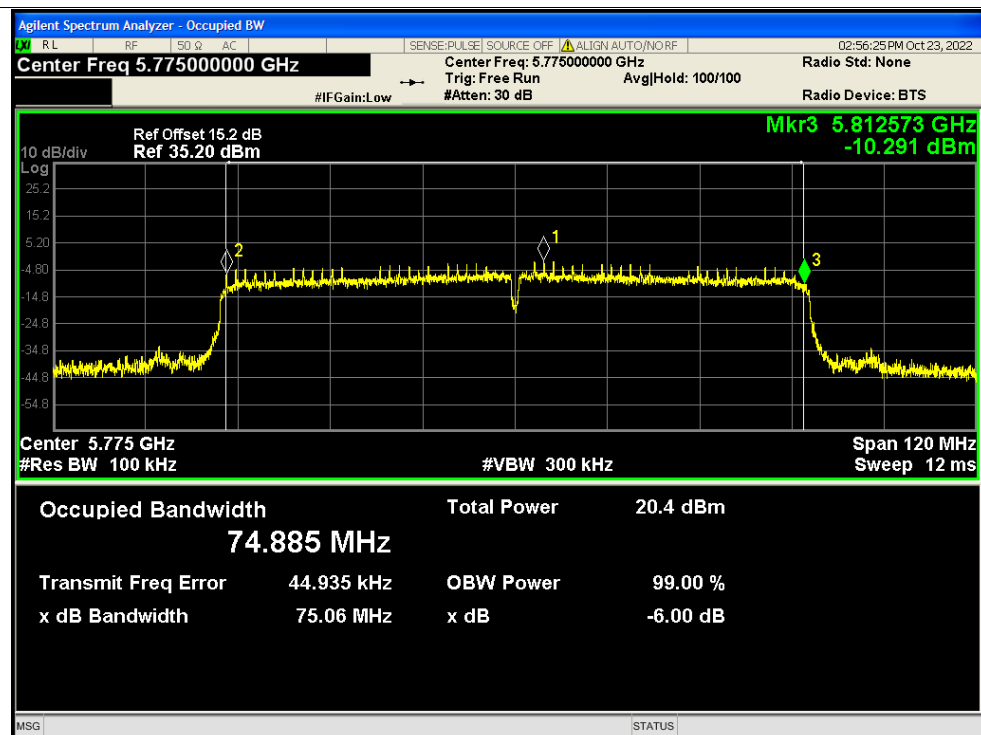


-6dB Bandwidth NVNT ac40 5755MHz Ant1



-6dB Bandwidth NVNT ac40 5795MHz Ant1



**-6dB Bandwidth NVNT ac80 5690MHz Ant1****-6dB Bandwidth NVNT ac80 5775MHz Ant1**

**A.4. Peak Power Spectral Density**

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	5.26	0.58	5.84	11	Pass
NVNT	a	5220	Ant1	5.79	0.58	6.37	11	Pass
NVNT	a	5240	Ant1	5.19	0.58	5.77	11	Pass
NVNT	a	5260	Ant1	6.18	0.58	6.76	11	Pass
NVNT	a	5300	Ant1	6.38	0.58	6.96	11	Pass
NVNT	a	5320	Ant1	6.46	0.58	7.04	11	Pass
NVNT	a	5500	Ant1	5.17	0.58	5.75	11	Pass
NVNT	a	5600	Ant1	4.02	0.58	4.60	11	Pass
NVNT	a	5720	Ant1	4.94	0.58	5.52	11	Pass
NVNT	a	5720	Ant1	2.98	0.58	3.56	11	Pass
NVNT	a	5745	Ant1	2.15	0.58	2.73	30	Pass
NVNT	a	5785	Ant1	2.86	0.58	3.44	30	Pass
NVNT	a	5825	Ant1	2.94	0.58	3.52	30	Pass
NVNT	a	5180	Ant2	5.15	0.58	5.73	11	Pass
NVNT	a	5220	Ant2	5.51	0.58	6.09	11	Pass
NVNT	a	5240	Ant2	5.62	0.58	6.20	11	Pass
NVNT	a	5260	Ant2	5.73	0.58	6.31	11	Pass
NVNT	a	5300	Ant2	6.07	0.58	6.65	11	Pass
NVNT	a	5320	Ant2	5.93	0.58	6.51	11	Pass
NVNT	a	5500	Ant2	4.82	0.58	5.40	11	Pass
NVNT	a	5600	Ant2	3.88	0.58	4.46	11	Pass
NVNT	a	5720	Ant2	4.99	0.58	5.57	11	Pass
NVNT	a	5720	Ant2	2.85	0.58	3.43	11	Pass
NVNT	a	5745	Ant2	2.63	0.58	3.21	30	Pass
NVNT	a	5785	Ant2	3.04	0.58	3.62	30	Pass
NVNT	a	5825	Ant2	3.17	0.58	3.75	30	Pass
NVNT	n20	5180	Ant1	4.06	0.61	4.67	11	Pass
NVNT	n20	5220	Ant1	4.33	0.61	4.94	11	Pass
NVNT	n20	5240	Ant1	4.86	0.61	5.47	11	Pass
NVNT	n20	5260	Ant1	4.74	0.61	5.35	11	Pass
NVNT	n20	5300	Ant1	5.11	0.61	5.72	11	Pass
NVNT	n20	5320	Ant1	4.95	0.61	5.56	11	Pass
NVNT	n20	5500	Ant1	4.12	0.61	4.73	11	Pass
NVNT	n20	5600	Ant1	2.65	0.61	3.26	11	Pass
NVNT	n20	5720	Ant1	3.57	0.61	4.18	11	Pass



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NVNT	n20	5720	Ant1	1.55	0.61	2.16	11	Pass
NVNT	n20	5745	Ant1	0.66	0.61	1.27	30	Pass
NVNT	n20	5785	Ant1	1.27	0.61	1.88	30	Pass
NVNT	n20	5825	Ant1	1.4	0.61	2.01	30	Pass
NVNT	n20	5180	Ant2	3.92	0.61	4.53	11	Pass
NVNT	n20	5220	Ant2	4.34	0.61	4.95	11	Pass
NVNT	n20	5240	Ant2	4.42	0.61	5.03	11	Pass
NVNT	n20	5260	Ant2	3.97	0.61	4.58	11	Pass
NVNT	n20	5300	Ant2	4.04	0.61	4.65	11	Pass
NVNT	n20	5320	Ant2	4.12	0.61	4.73	11	Pass
NVNT	n20	5500	Ant2	3.23	0.61	3.84	11	Pass
NVNT	n20	5600	Ant2	2.85	0.61	3.46	11	Pass
NVNT	n20	5720	Ant2	4.21	0.61	4.82	11	Pass
NVNT	n20	5720	Ant2	1.48	0.61	2.09	11	Pass
NVNT	n20	5745	Ant2	1.85	0.61	2.46	30	Pass
NVNT	n20	5785	Ant2	1.75	0.61	2.36	30	Pass
NVNT	n20	5825	Ant2	1.99	0.61	2.60	30	Pass
NVNT	n20	5180	Ant1+2	-	0	7.61	8.4	Pass
NVNT	n20	5220	Ant1+2	-	0	7.96	8.4	Pass
NVNT	n20	5240	Ant1+2	-	0	8.27	8.4	Pass
NVNT	n20	5260	Ant1+2	-	0	7.99	8.4	Pass
NVNT	n20	5300	Ant1+2	-	0	8.23	8.4	Pass
NVNT	n20	5320	Ant1+2	-	0	8.18	8.4	Pass
NVNT	n20	5500	Ant1+2	-	0	7.32	8.4	Pass
NVNT	n20	5600	Ant1+2	-	0	6.37	8.4	Pass
NVNT	n20	5720	Ant1+2	-	0	7.52	8.4	Pass
NVNT	n20	5720	Ant1+2	-	0	5.14	27.4	Pass
NVNT	n20	5745	Ant1+2	-	0	4.92	27.4	Pass
NVNT	n20	5785	Ant1+2	-	0	5.14	27.4	Pass
NVNT	n20	5825	Ant1+2	-	0	5.33	27.4	Pass
NVNT	n40	5190	Ant1	0.51	1.15	1.66	11	Pass
NVNT	n40	5230	Ant1	0.82	1.15	1.97	11	Pass
NVNT	n40	5270	Ant1	0.96	1.15	2.11	11	Pass
NVNT	n40	5310	Ant1	1.39	1.15	2.54	11	Pass
NVNT	n40	5510	Ant1	0.32	1.15	1.47	11	Pass
NVNT	n40	5630	Ant1	-1.12	1.15	0.03	11	Pass
NVNT	n40	5710	Ant1	-0.3	1.15	0.85	11	Pass
NVNT	n40	5710	Ant1	-2.17	1.15	-1.02	11	Pass



NVNT	n40	5755	Ant1	-2.76	1.15	-1.61	30	Pass
NVNT	n40	5795	Ant1	-2.34	1.15	-1.19	30	Pass
NVNT	n40	5190	Ant2	0.49	1.15	1.64	11	Pass
NVNT	n40	5230	Ant2	0.83	1.15	1.98	11	Pass
NVNT	n40	5270	Ant2	1.05	1.15	2.20	11	Pass
NVNT	n40	5310	Ant2	0.94	1.15	2.09	11	Pass
NVNT	n40	5510	Ant2	0.2	1.15	1.35	11	Pass
NVNT	n40	5630	Ant2	0.19	1.15	1.34	11	Pass
NVNT	n40	5710	Ant2	0.48	1.15	1.63	11	Pass
NVNT	n40	5710	Ant2	-2.53	1.15	-1.38	11	Pass
NVNT	n40	5755	Ant2	-2.12	1.15	-0.97	30	Pass
NVNT	n40	5795	Ant2	-1.86	1.15	-0.71	30	Pass
NVNT	n40	5190	Ant1+2	-	0	4.66	8.4	Pass
NVNT	n40	5230	Ant1+2	-	0	4.99	8.4	Pass
NVNT	n40	5270	Ant1+2	-	0	5.17	8.4	Pass
NVNT	n40	5310	Ant1+2	-	0	5.33	8.4	Pass
NVNT	n40	5510	Ant1+2	-	0	4.42	8.4	Pass
NVNT	n40	5630	Ant1+2	-	0	3.74	8.4	Pass
NVNT	n40	5710	Ant1+2	-	0	4.27	8.4	Pass
NVNT	n40	5710	Ant1+2	-	0	1.81	27.4	Pass
NVNT	n40	5755	Ant1+2	-	0	1.73	27.4	Pass
NVNT	n40	5795	Ant1+2	-	0	2.07	27.4	Pass
NVNT	ac20	5180	Ant1	2.99	0.61	3.60	11	Pass
NVNT	ac20	5220	Ant1	3.53	0.61	4.14	11	Pass
NVNT	ac20	5240	Ant1	3.74	0.61	4.35	11	Pass
NVNT	ac20	5260	Ant1	3.94	0.61	4.55	11	Pass
NVNT	ac20	5300	Ant1	4.04	0.61	4.65	11	Pass
NVNT	ac20	5320	Ant1	4.22	0.61	4.83	11	Pass
NVNT	ac20	5500	Ant1	3.33	0.61	3.94	11	Pass
NVNT	ac20	5600	Ant1	1.66	0.61	2.27	11	Pass
NVNT	ac20	5720	Ant1	2.51	0.61	3.12	11	Pass
NVNT	ac20	5720	Ant1	0.63	0.61	1.24	11	Pass
NVNT	ac20	5745	Ant1	-0.27	0.61	0.34	30	Pass
NVNT	ac20	5785	Ant1	0.24	0.61	0.85	30	Pass
NVNT	ac20	5825	Ant1	0.57	0.61	1.18	30	Pass
NVNT	ac20	5180	Ant2	3.32	0.61	3.93	11	Pass
NVNT	ac20	5220	Ant2	3.68	0.61	4.29	11	Pass
NVNT	ac20	5240	Ant2	4.29	0.61	4.90	11	Pass



NVNT	ac20	5260	Ant2	4.16	0.61	4.77	11	Pass
NVNT	ac20	5300	Ant2	4.17	0.61	4.78	11	Pass
NVNT	ac20	5320	Ant2	4.37	0.61	4.98	11	Pass
NVNT	ac20	5500	Ant2	3.23	0.61	3.84	11	Pass
NVNT	ac20	5600	Ant2	2.92	0.61	3.53	11	Pass
NVNT	ac20	5720	Ant2	4.04	0.61	4.65	11	Pass
NVNT	ac20	5720	Ant2	1.15	0.61	1.76	11	Pass
NVNT	ac20	5745	Ant2	0.97	0.61	1.58	30	Pass
NVNT	ac20	5785	Ant2	1.18	0.61	1.79	30	Pass
NVNT	ac20	5825	Ant2	1.43	0.61	2.04	30	Pass
NVNT	ac20	5180	Ant1+2	-	0	6.78	8.4	Pass
NVNT	ac20	5220	Ant1+2	-	0	7.23	8.4	Pass
NVNT	ac20	5240	Ant1+2	-	0	7.64	8.4	Pass
NVNT	ac20	5260	Ant1+2	-	0	7.67	8.4	Pass
NVNT	ac20	5300	Ant1+2	-	0	7.73	8.4	Pass
NVNT	ac20	5320	Ant1+2	-	0	7.92	8.4	Pass
NVNT	ac20	5500	Ant1+2	-	0	6.90	8.4	Pass
NVNT	ac20	5600	Ant1+2	-	0	5.96	8.4	Pass
NVNT	ac20	5720	Ant1+2	-	0	6.96	8.4	Pass
NVNT	ac20	5720	Ant1+2	-	0	4.52	27.4	Pass
NVNT	ac20	5745	Ant1+2	-	0	4.01	27.4	Pass
NVNT	ac20	5785	Ant1+2	-	0	4.36	27.4	Pass
NVNT	ac20	5825	Ant1+2	-	0	4.64	27.4	Pass
NVNT	ac40	5190	Ant1	-0.4	1.14	0.74	11	Pass
NVNT	ac40	5230	Ant1	-0.16	1.14	0.98	11	Pass
NVNT	ac40	5270	Ant1	0.36	1.14	1.50	11	Pass
NVNT	ac40	5310	Ant1	0.26	1.14	1.40	11	Pass
NVNT	ac40	5510	Ant1	-0.51	1.14	0.63	11	Pass
NVNT	ac40	5630	Ant1	-2.4	1.14	-1.26	11	Pass
NVNT	ac40	5710	Ant1	-0.37	1.14	0.77	11	Pass
NVNT	ac40	5710	Ant1	-3.53	1.14	-2.39	11	Pass
NVNT	ac40	5755	Ant1	-4.14	1.14	-3.00	30	Pass
NVNT	ac40	5795	Ant1	-3.77	1.14	-2.63	30	Pass
NVNT	ac40	5190	Ant2	-0.98	1.14	0.16	11	Pass
NVNT	ac40	5230	Ant2	-0.29	1.14	0.85	11	Pass
NVNT	ac40	5270	Ant2	-0.07	1.14	1.07	11	Pass
NVNT	ac40	5310	Ant2	0.04	1.14	1.18	11	Pass
NVNT	ac40	5510	Ant2	-0.68	1.14	0.46	11	Pass



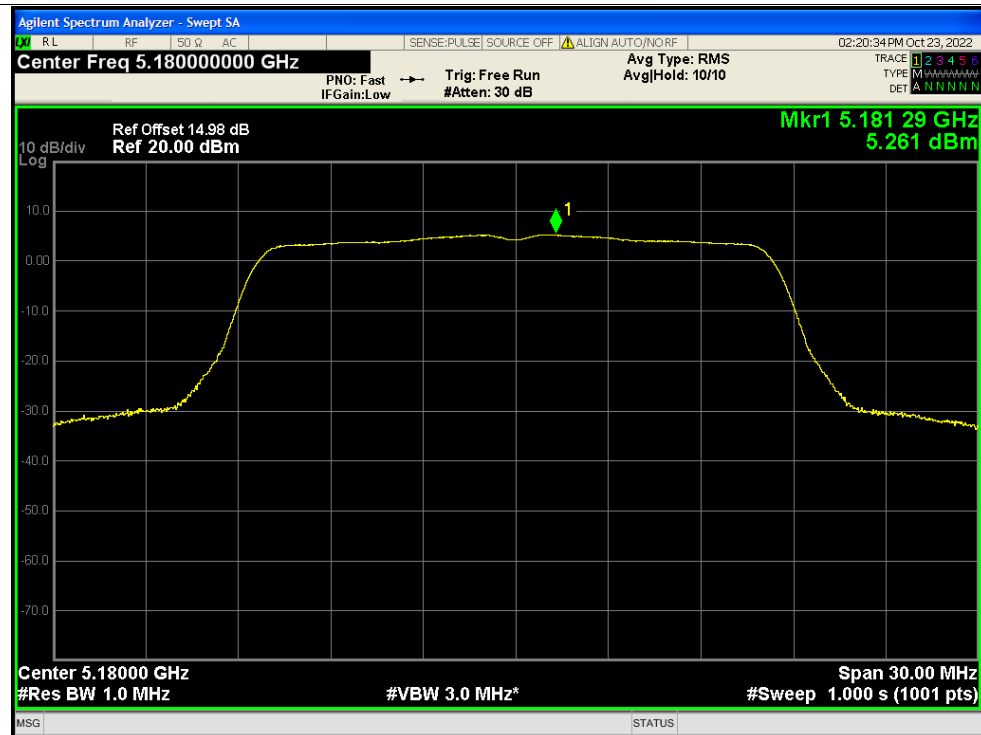
REPORT No.: SZ22090321W02

NVNT	ac40	5630	Ant2	-1.22	1.14	-0.08	11	Pass
NVNT	ac40	5710	Ant2	-0.85	1.14	0.29	11	Pass
NVNT	ac40	5710	Ant2	-0.81	1.14	0.33	11	Pass
NVNT	ac40	5755	Ant2	-3.64	1.14	-2.50	30	Pass
NVNT	ac40	5795	Ant2	-3.13	1.14	-1.99	30	Pass
NVNT	ac40	5190	Ant1+2	-	0	3.47	8.4	Pass
NVNT	ac40	5230	Ant1+2	-	0	3.93	8.4	Pass
NVNT	ac40	5270	Ant1+2	-	0	4.30	8.4	Pass
NVNT	ac40	5310	Ant1+2	-	0	4.30	8.4	Pass
NVNT	ac40	5510	Ant1+2	-	0	3.56	8.4	Pass
NVNT	ac40	5630	Ant1+2	-	0	2.38	8.4	Pass
NVNT	ac40	5710	Ant1+2	-	0	3.55	8.4	Pass
NVNT	ac40	5710	Ant1+2	-	0	2.19	27.4	Pass
NVNT	ac40	5755	Ant1+2	-	0	0.27	27.4	Pass
NVNT	ac40	5795	Ant1+2	-	0	0.71	27.4	Pass
NVNT	ac80	5210	Ant1	-3.7	2.05	-1.65	11	Pass
NVNT	ac80	5290	Ant1	-3.32	2.05	-1.27	11	Pass
NVNT	ac80	5530	Ant1	-4.77	2.05	-2.72	11	Pass
NVNT	ac80	5610	Ant1	-5.56	2.05	-3.51	11	Pass
NVNT	ac80	5690	Ant1	-5.27	2.05	-3.22	11	Pass
NVNT	ac80	5690	Ant1	-7.14	2.05	-5.09	11	Pass
NVNT	ac80	5775	Ant1	-7.09	2.05	-5.04	30	Pass
NVNT	ac80	5210	Ant2	-3.9	2.05	-1.85	11	Pass
NVNT	ac80	5290	Ant2	-3.38	2.05	-1.33	11	Pass
NVNT	ac80	5530	Ant2	-4.34	2.05	-2.29	11	Pass
NVNT	ac80	5610	Ant2	-4.59	2.05	-2.54	11	Pass
NVNT	ac80	5690	Ant2	-4.19	2.05	-2.14	11	Pass
NVNT	ac80	5690	Ant2	-6.93	2.05	-4.88	11	Pass
NVNT	ac80	5775	Ant2	-6.51	2.05	-4.46	30	Pass
NVNT	ac80	5210	Ant1+2	-	0	1.26	8.4	Pass
NVNT	ac80	5290	Ant1+2	-	0	1.71	8.4	Pass
NVNT	ac80	5530	Ant1+2	-	0	0.51	8.4	Pass
NVNT	ac80	5610	Ant1+2	-	0	0.01	8.4	Pass
NVNT	ac80	5690	Ant1+2	-	0	0.36	8.4	Pass
NVNT	ac80	5690	Ant1+2	-	0	-1.97	27.4	Pass
NVNT	ac80	5775	Ant1+2	-	0	-1.73	27.4	Pass

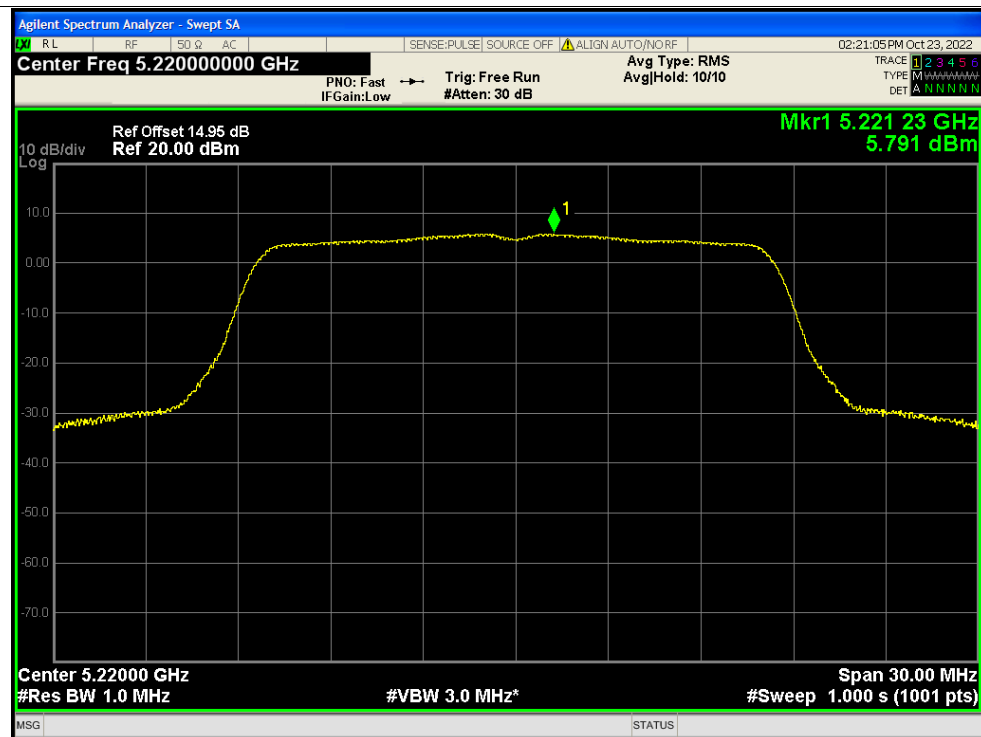


Test Graphs

PSD NVNT a 5180MHz Ant1

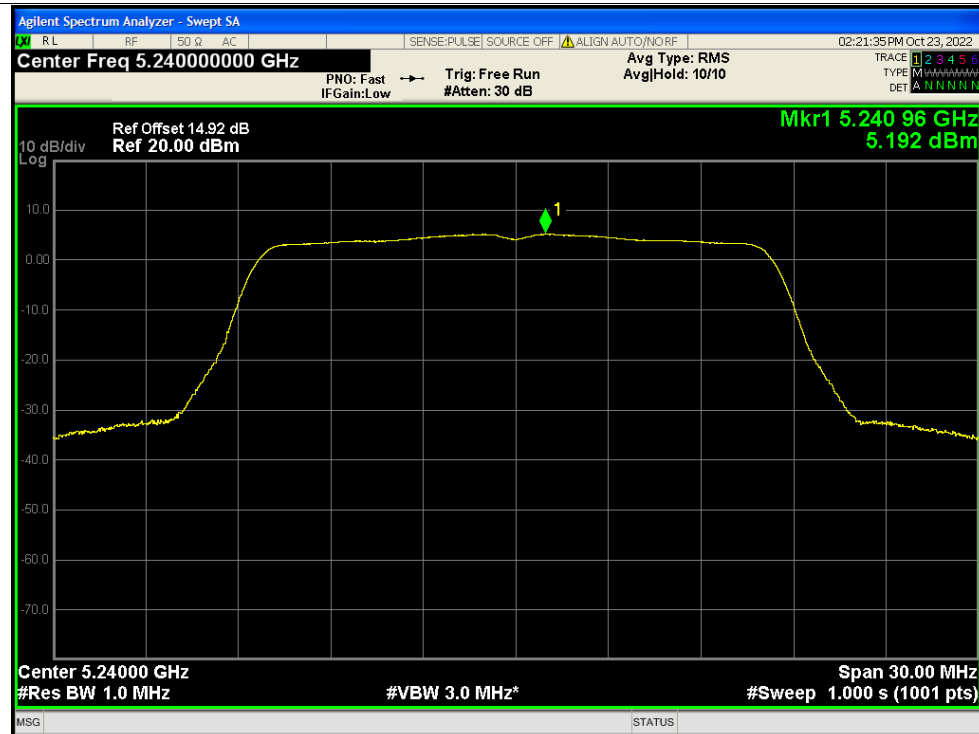


PSD NVNT a 5220MHz Ant1

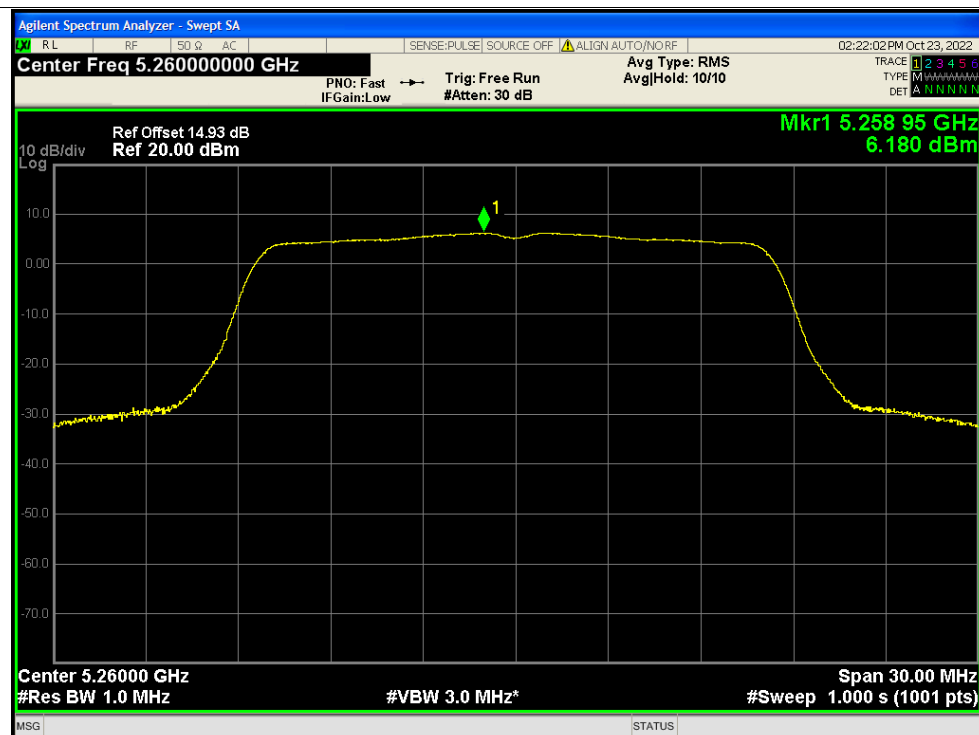




PSD NVNT a 5240MHz Ant1

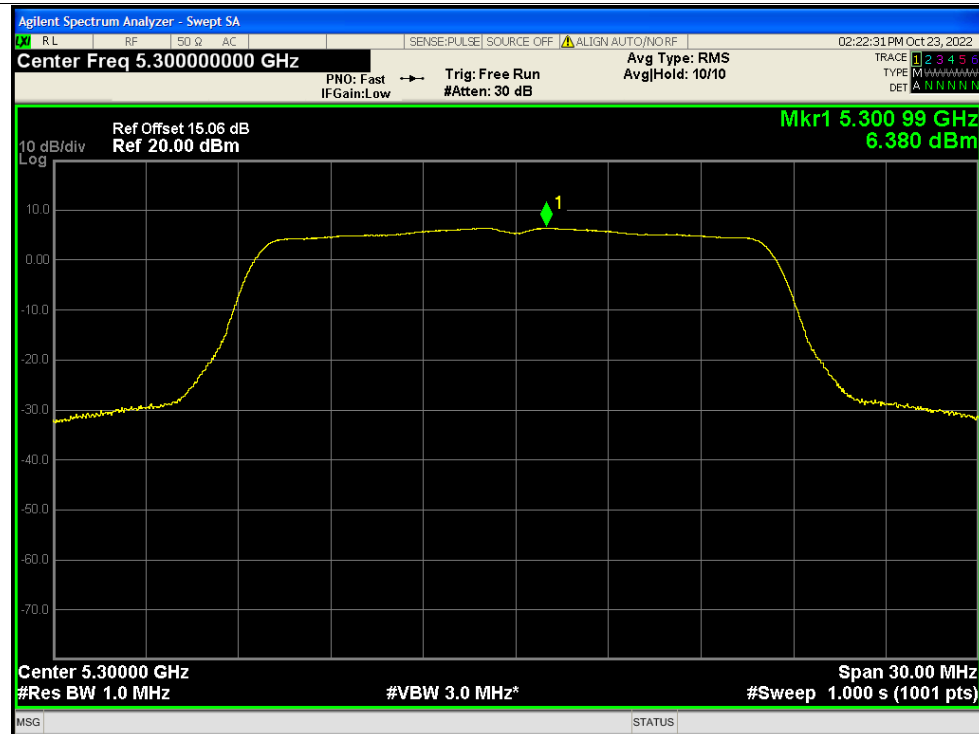


PSD NVNT a 5260MHz Ant1

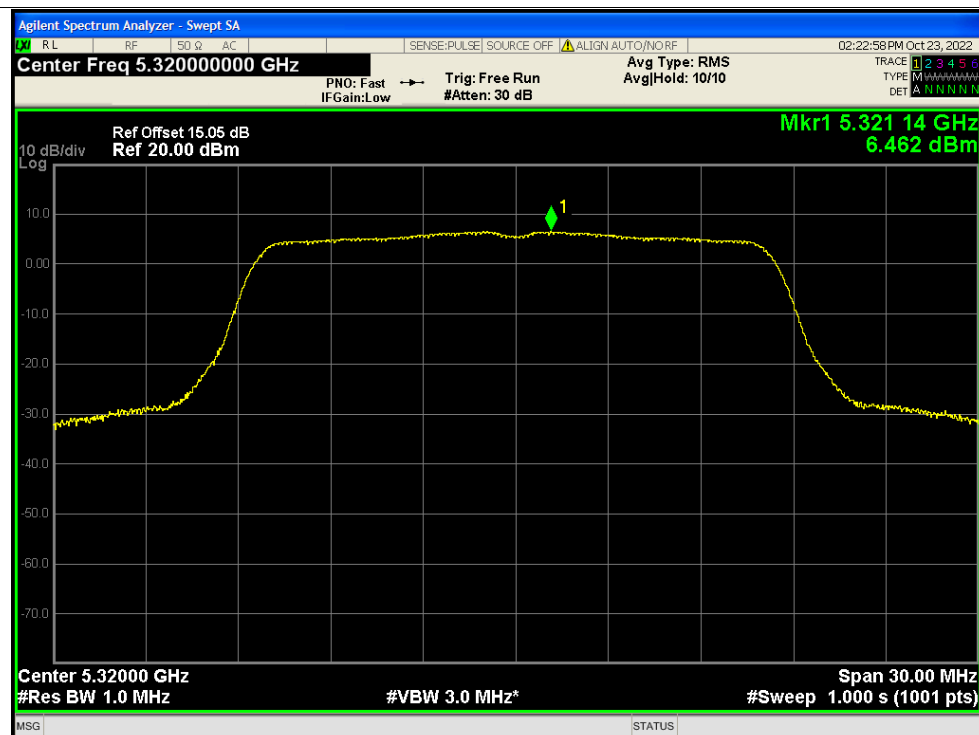




PSD NVNT a 5300MHz Ant1

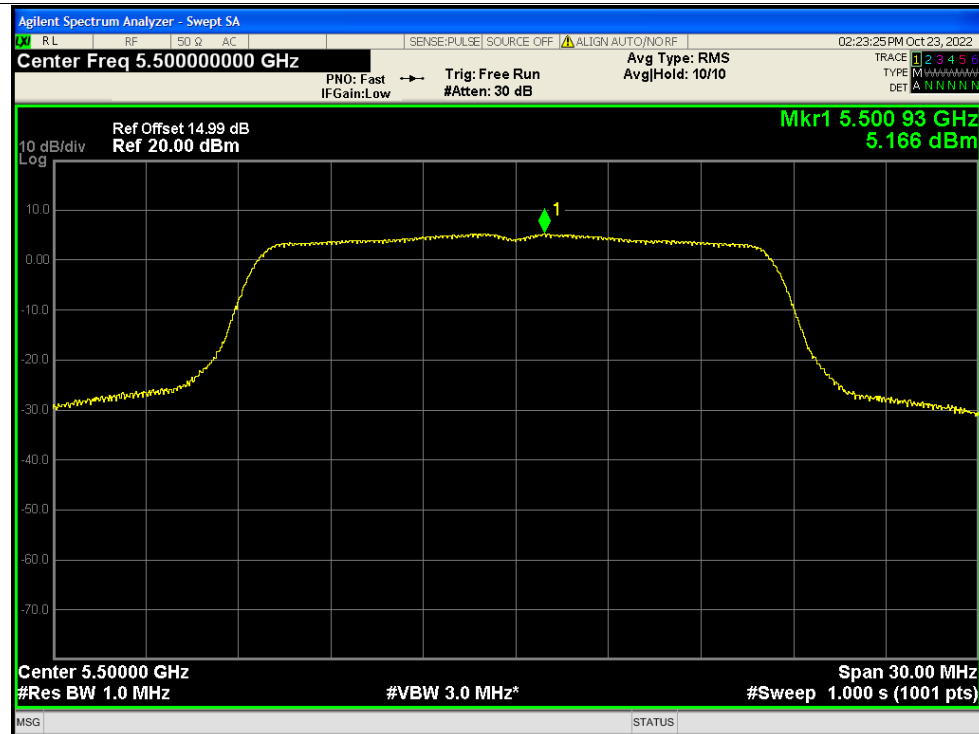


PSD NVNT a 5320MHz Ant1

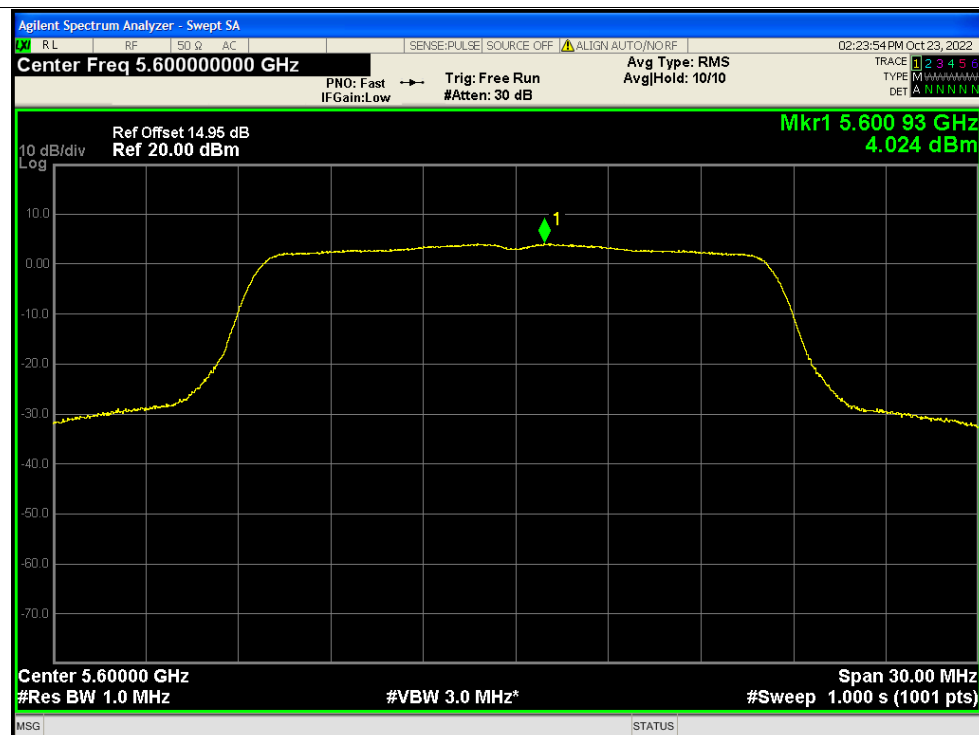




PSD NVNT a 5500MHz Ant1

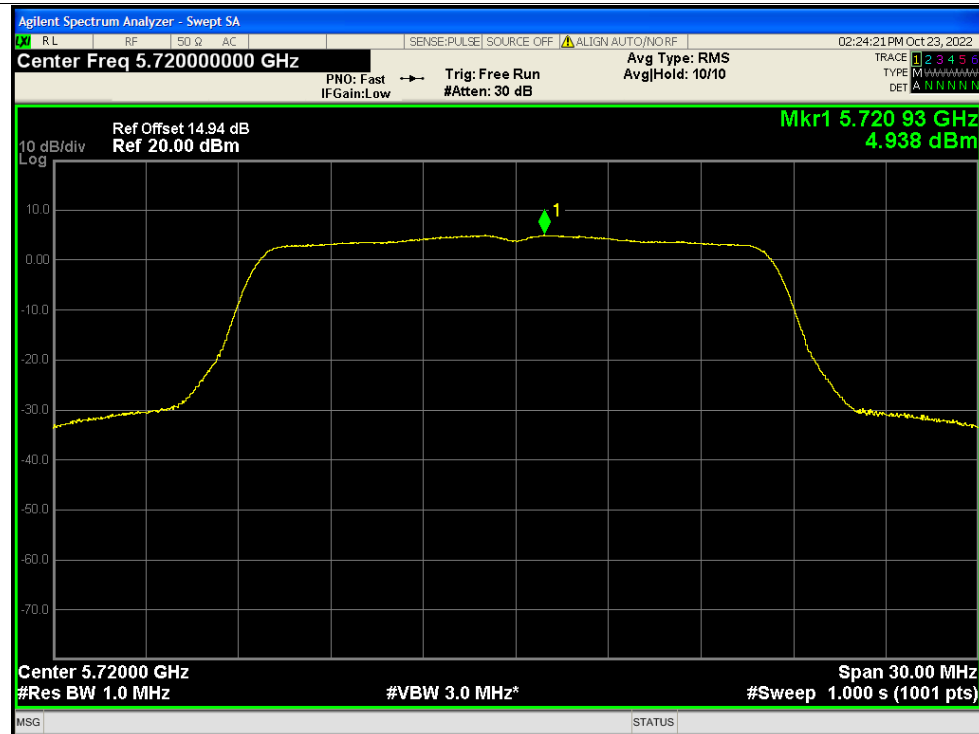


PSD NVNT a 5600MHz Ant1

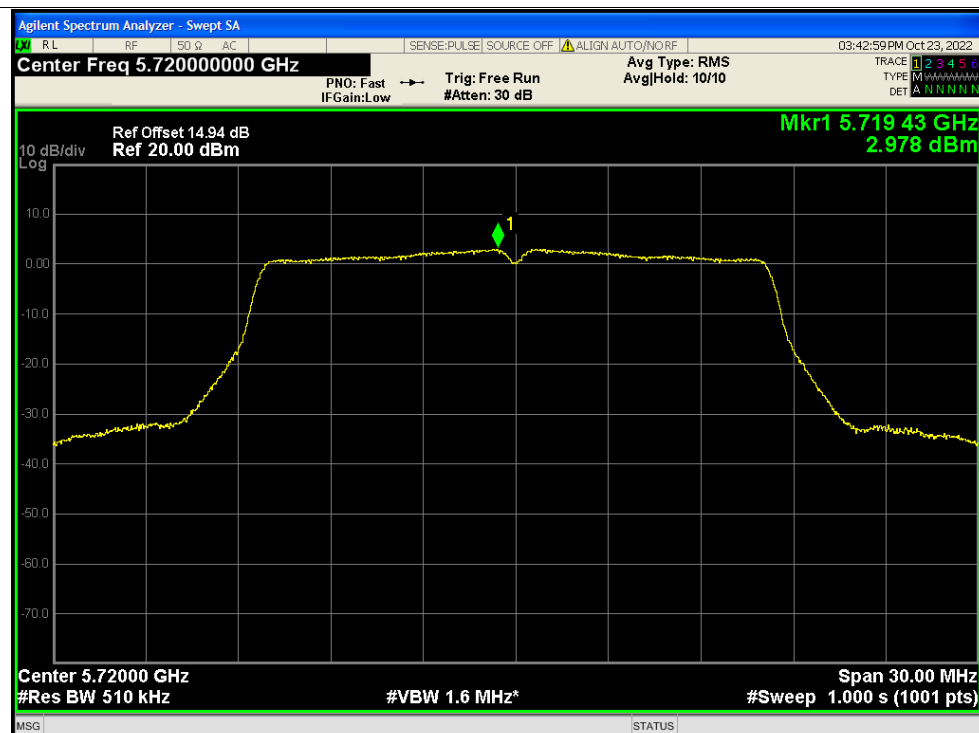




PSD NVNT a 5720MHz Ant1

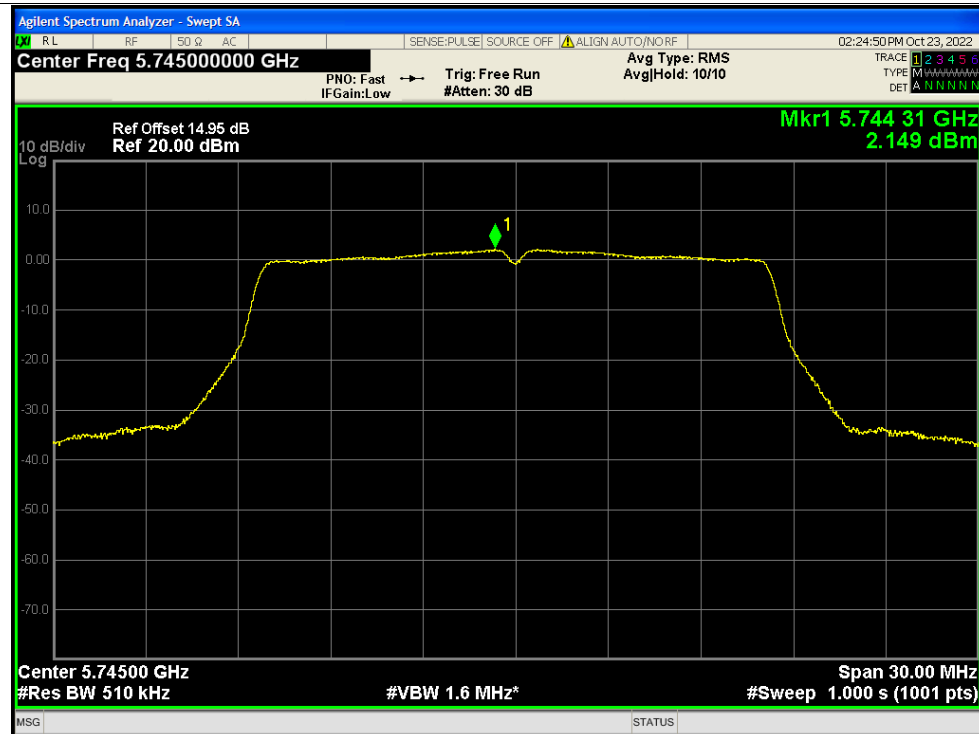


PSD NVNT a 5720MHz Ant1

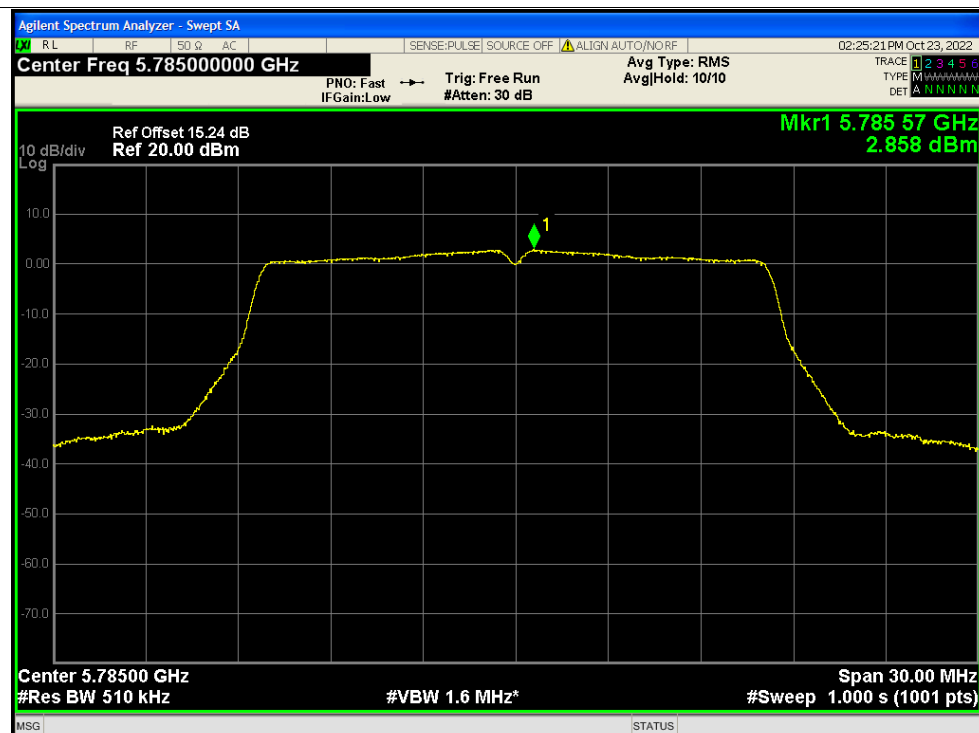


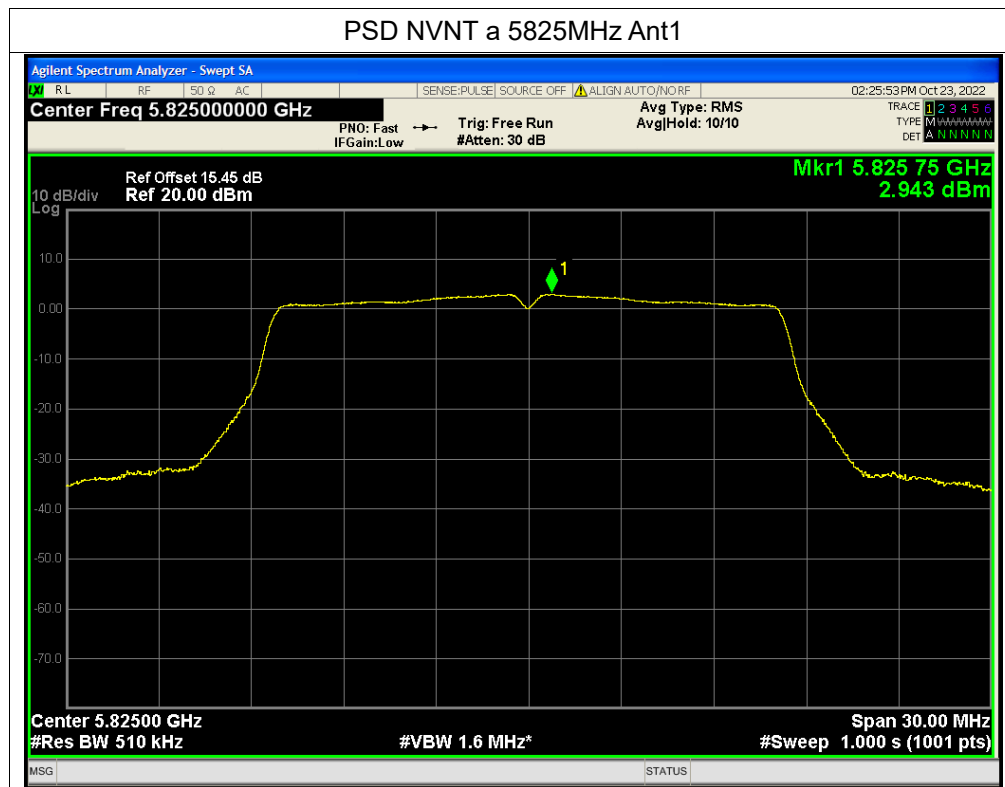


PSD NVNT a 5745MHz Ant1



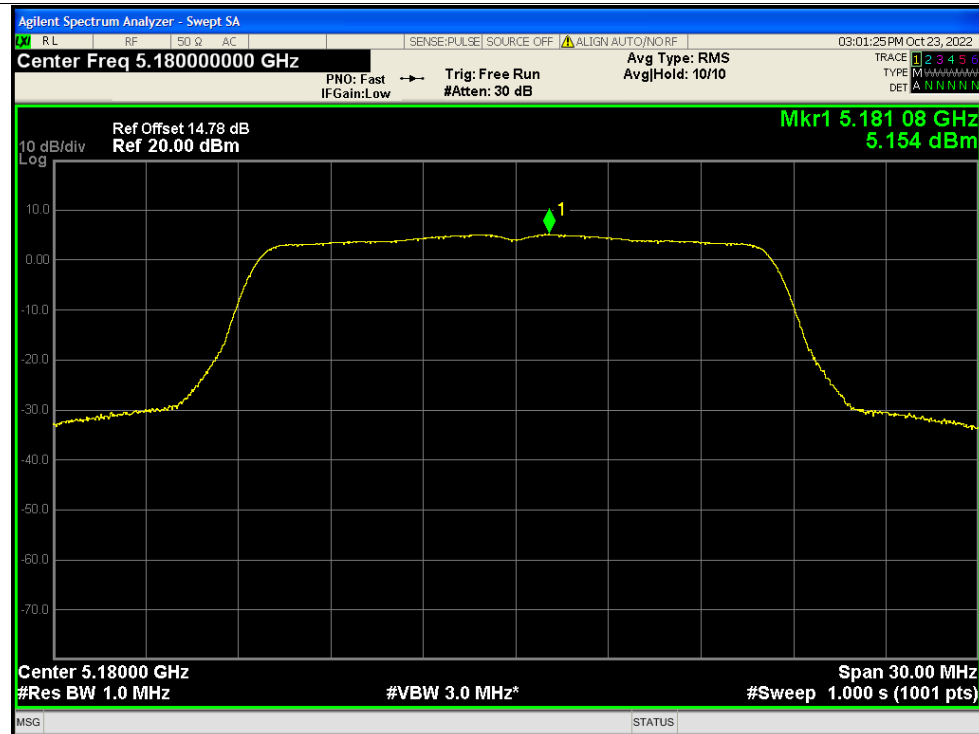
PSD NVNT a 5785MHz Ant1



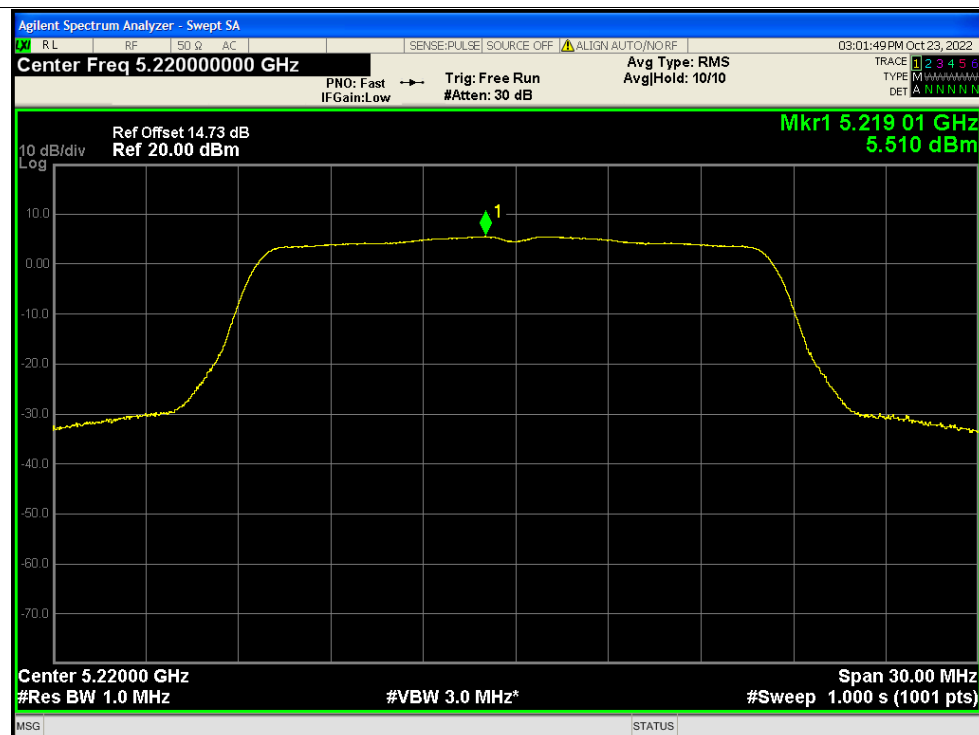




PSD NVNT a 5180MHz Ant2

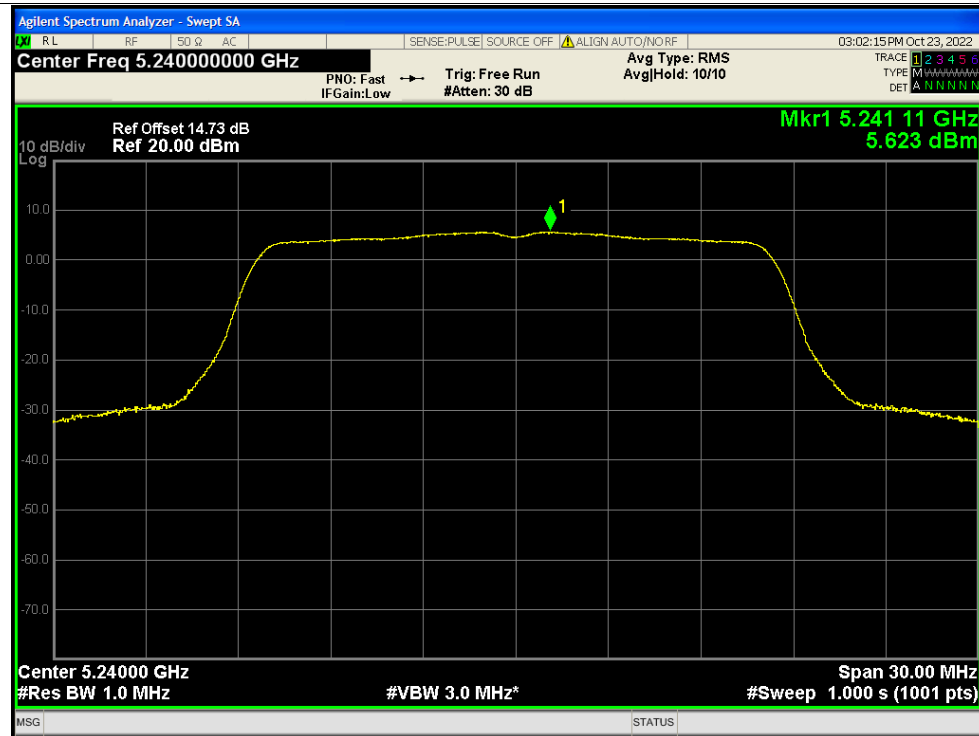


PSD NVNT a 5220MHz Ant2

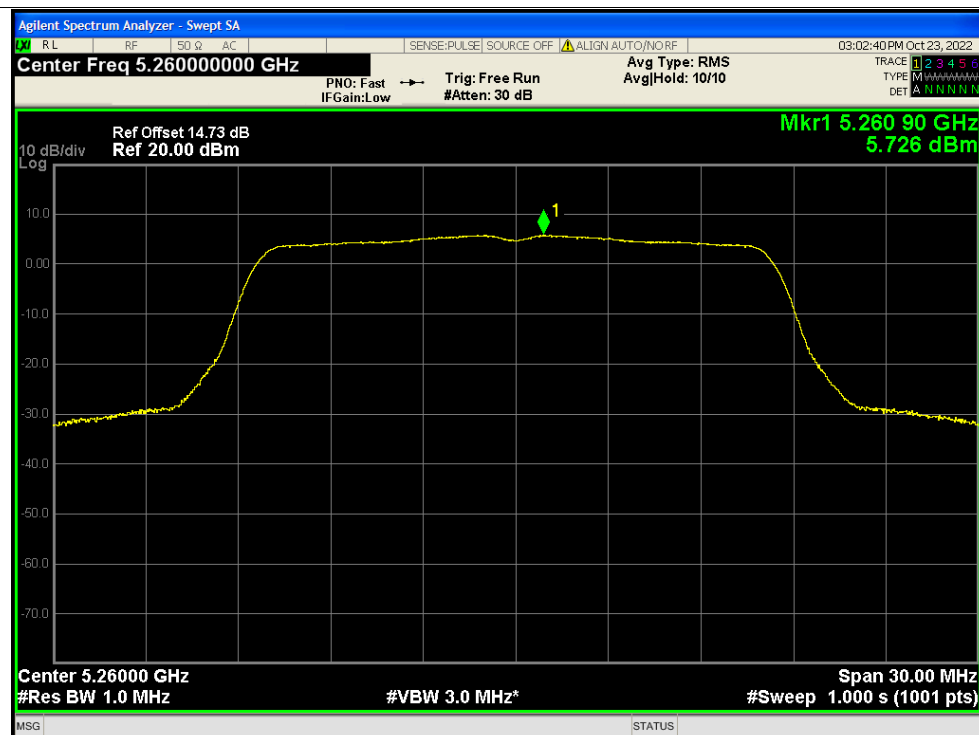




PSD NVNT a 5240MHz Ant2

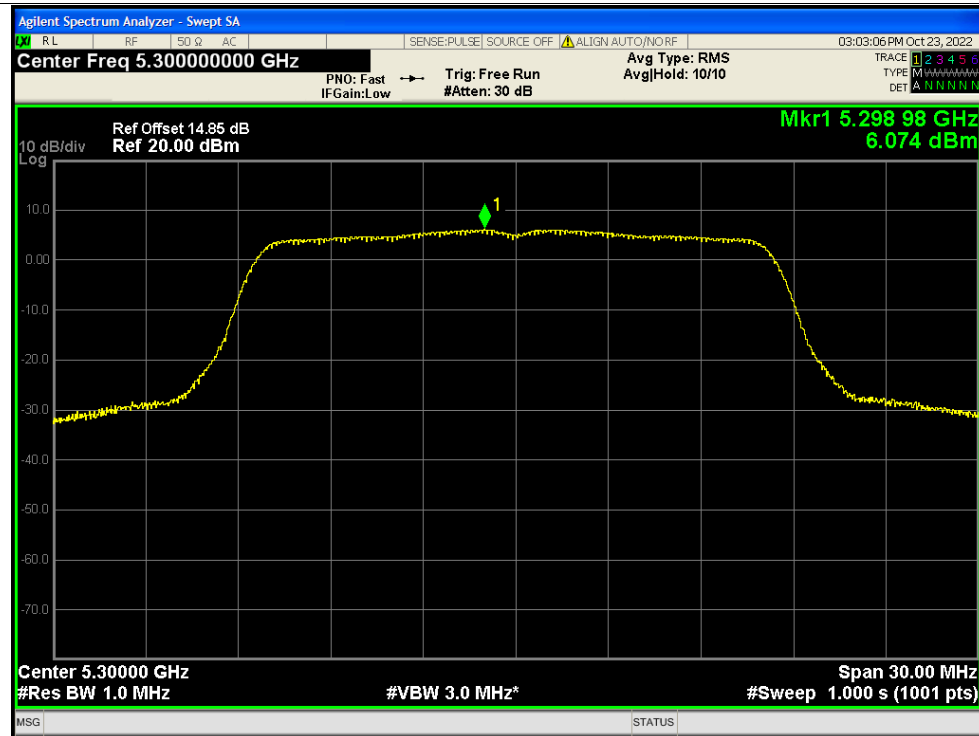


PSD NVNT a 5260MHz Ant2

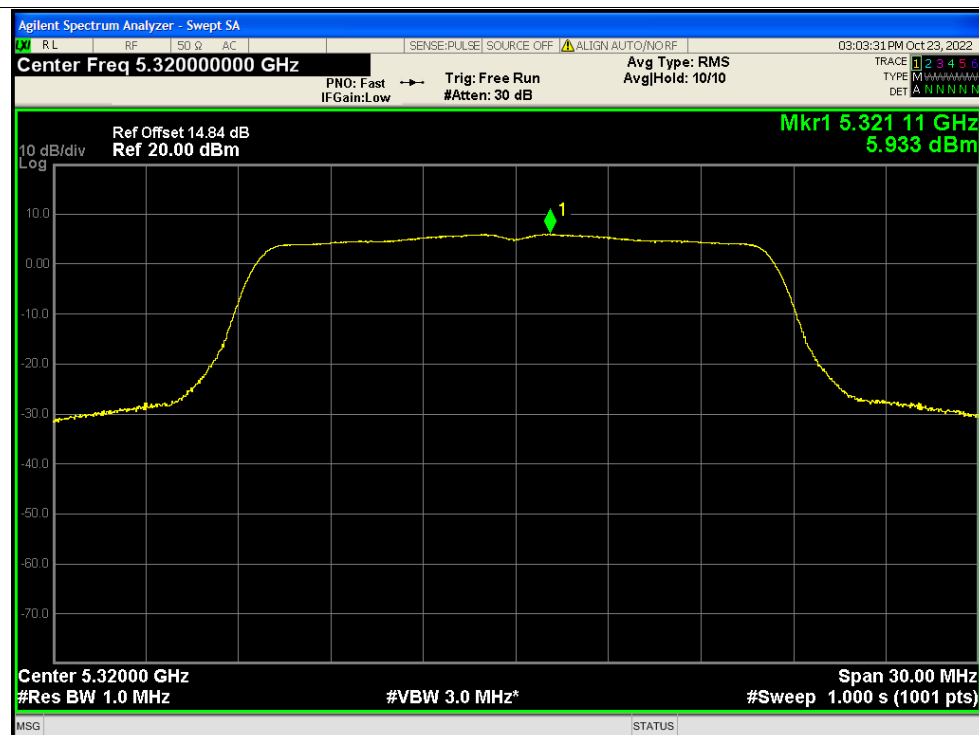




PSD NVNT a 5300MHz Ant2

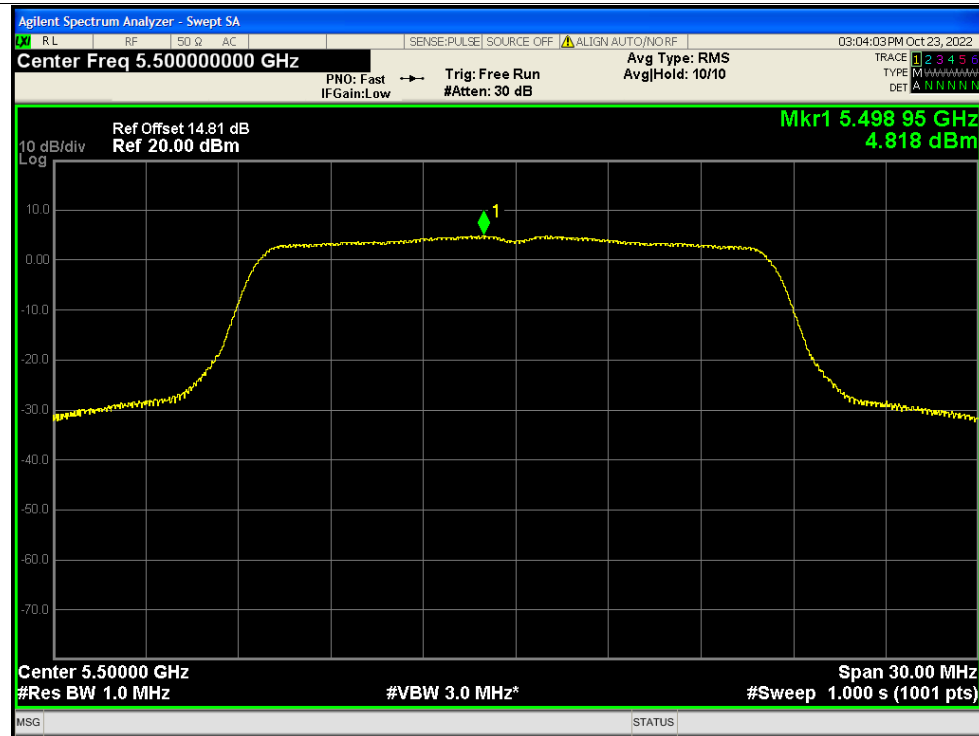


PSD NVNT a 5320MHz Ant2

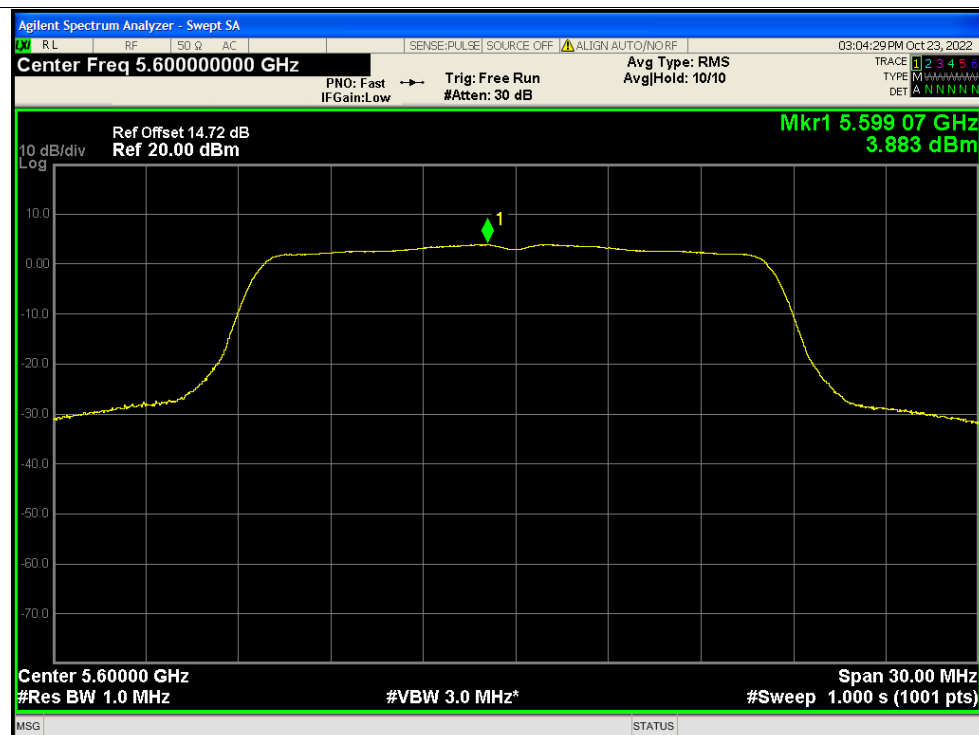




PSD NVNT a 5500MHz Ant2

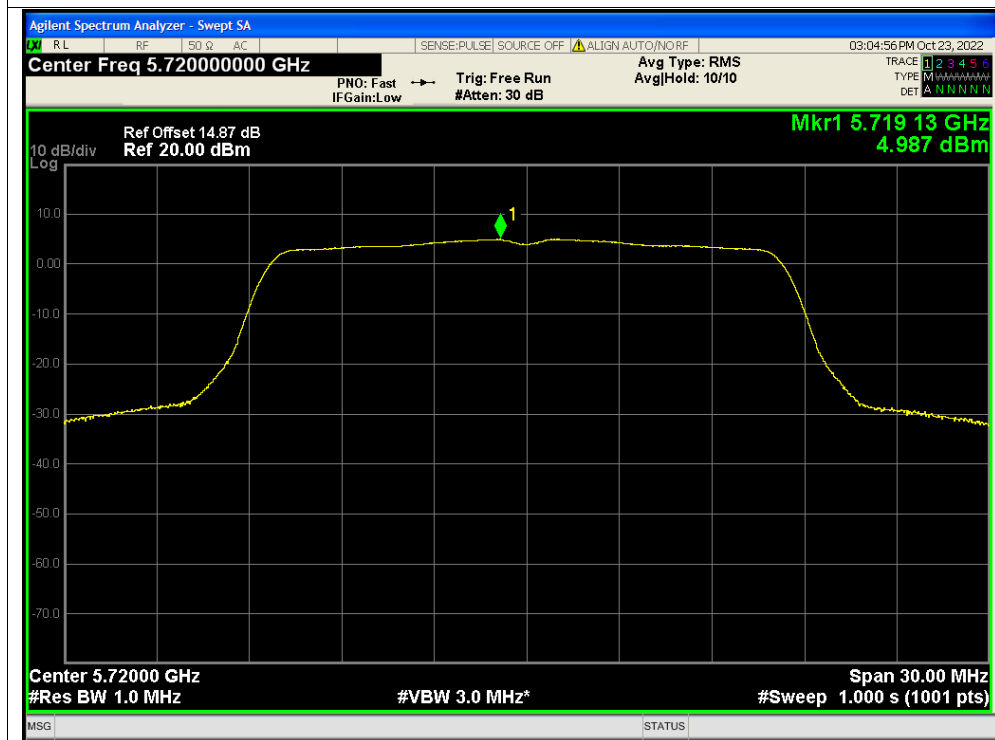


PSD NVNT a 5600MHz Ant2

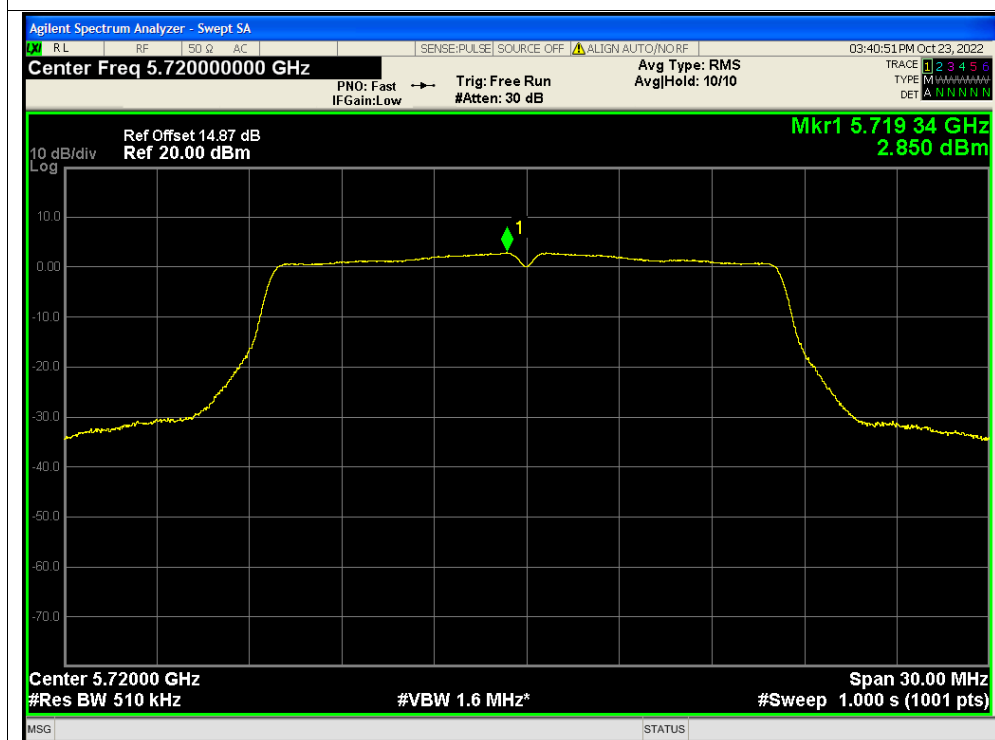




PSD NVNT a 5720MHz Ant2

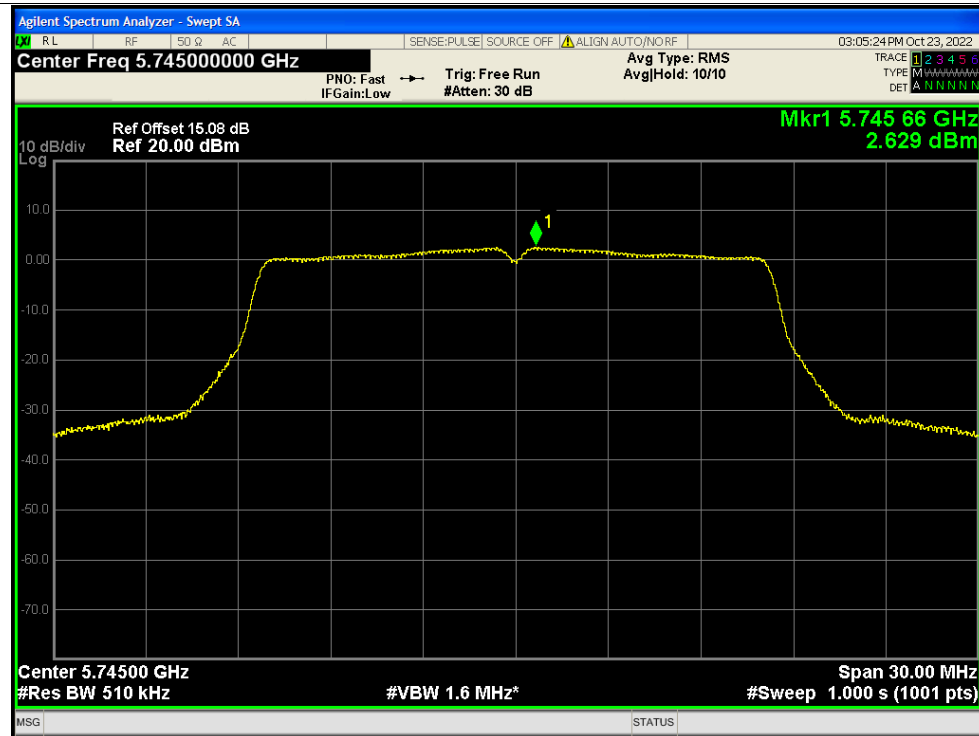


PSD NVNT a 5720MHz Ant2

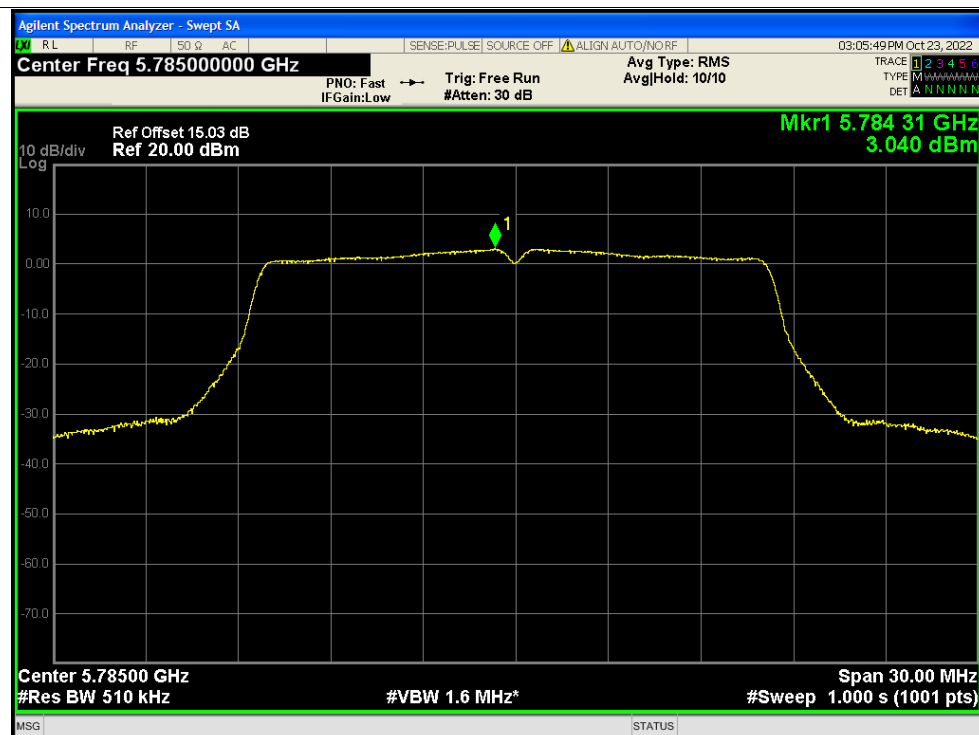


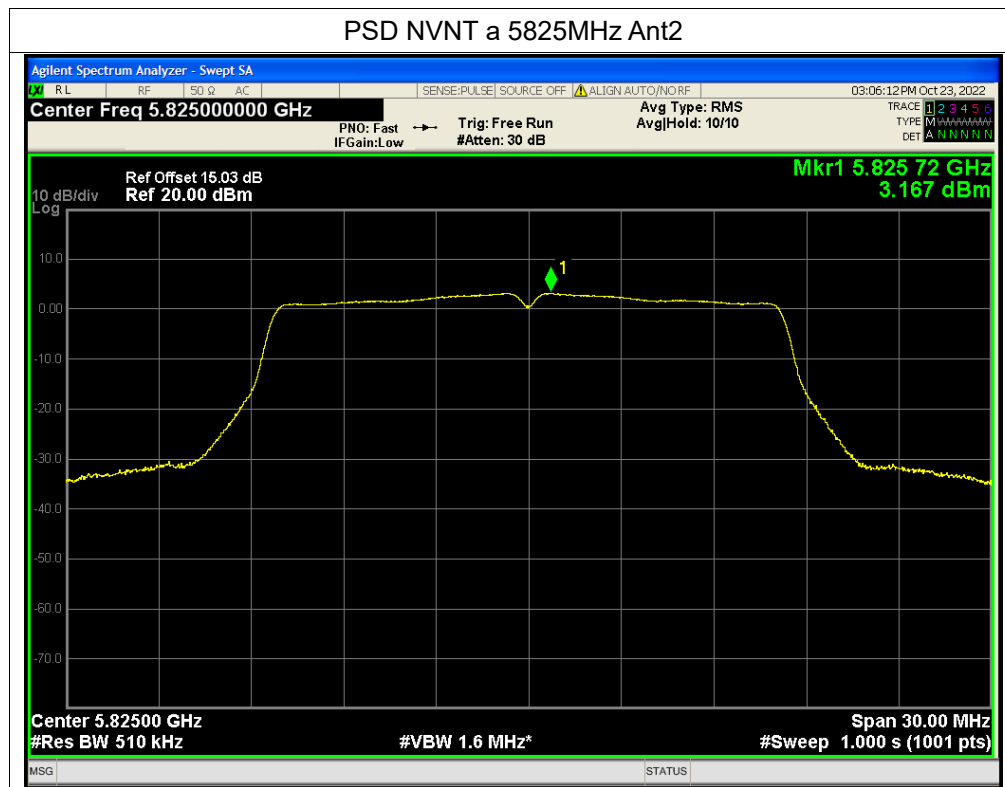


PSD NVNT a 5745MHz Ant2



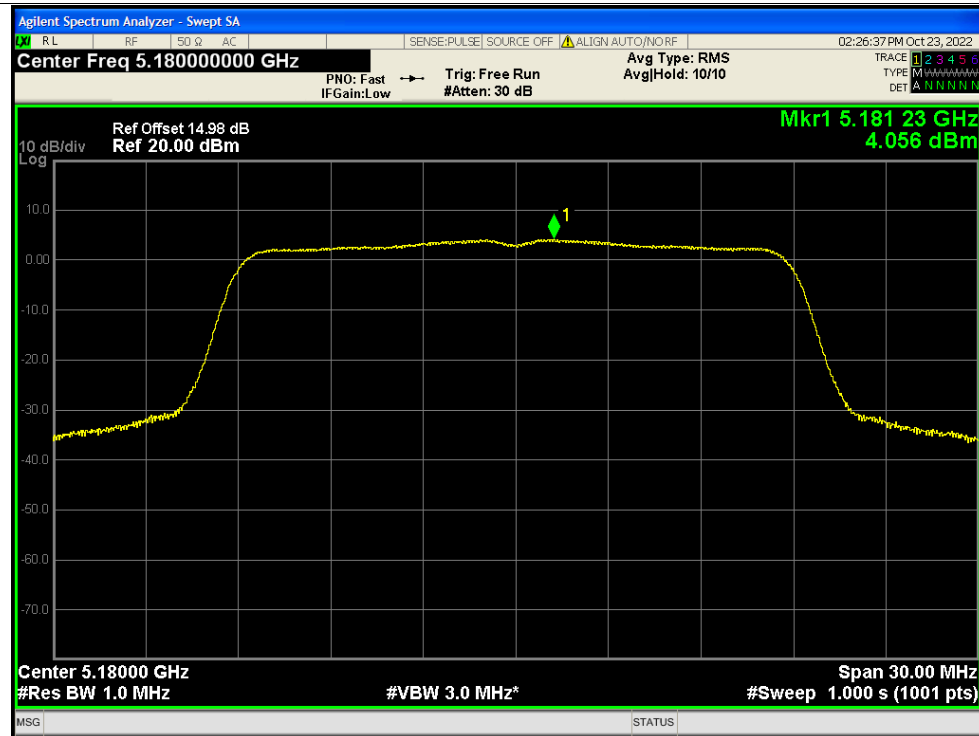
PSD NVNT a 5785MHz Ant2



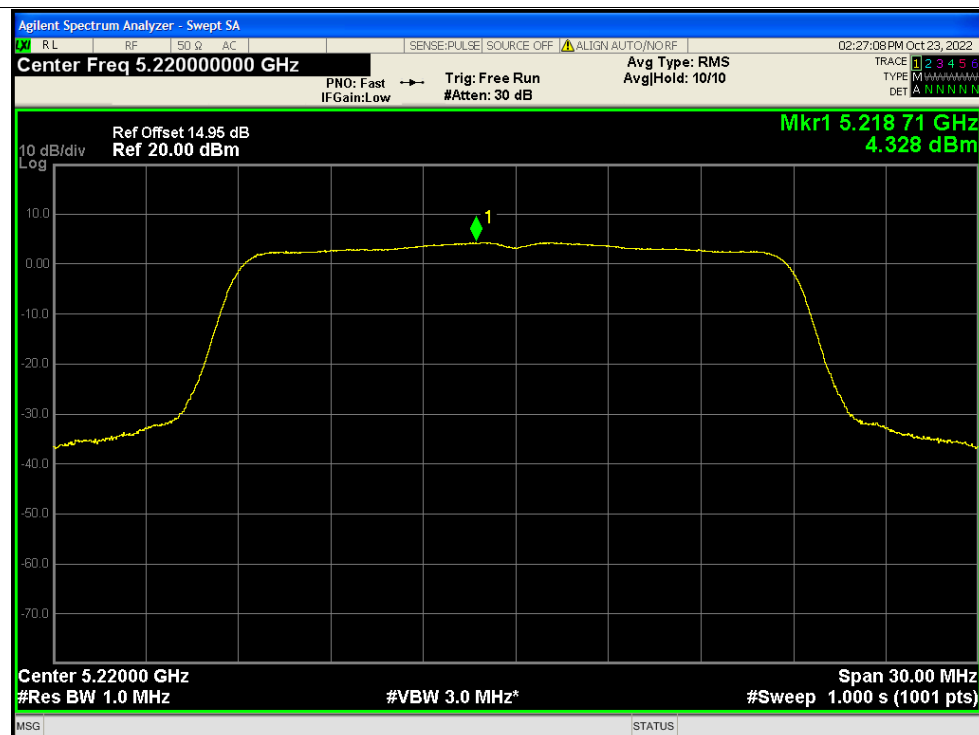




PSD NVNT n20 5180MHz Ant1

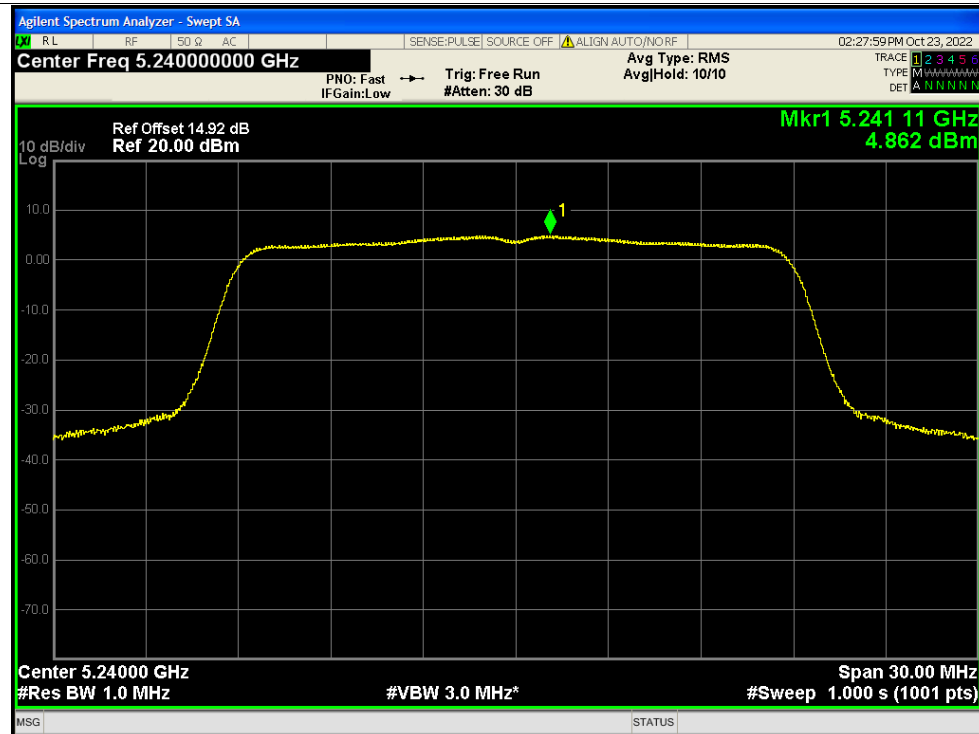


PSD NVNT n20 5220MHz Ant1

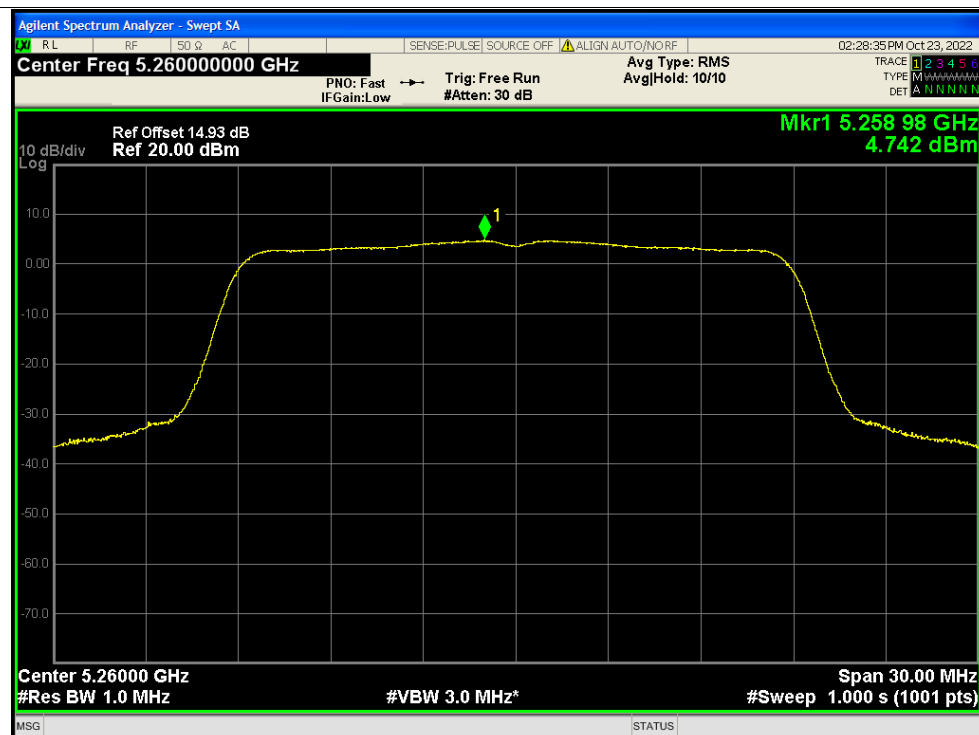




PSD NVNT n20 5240MHz Ant1

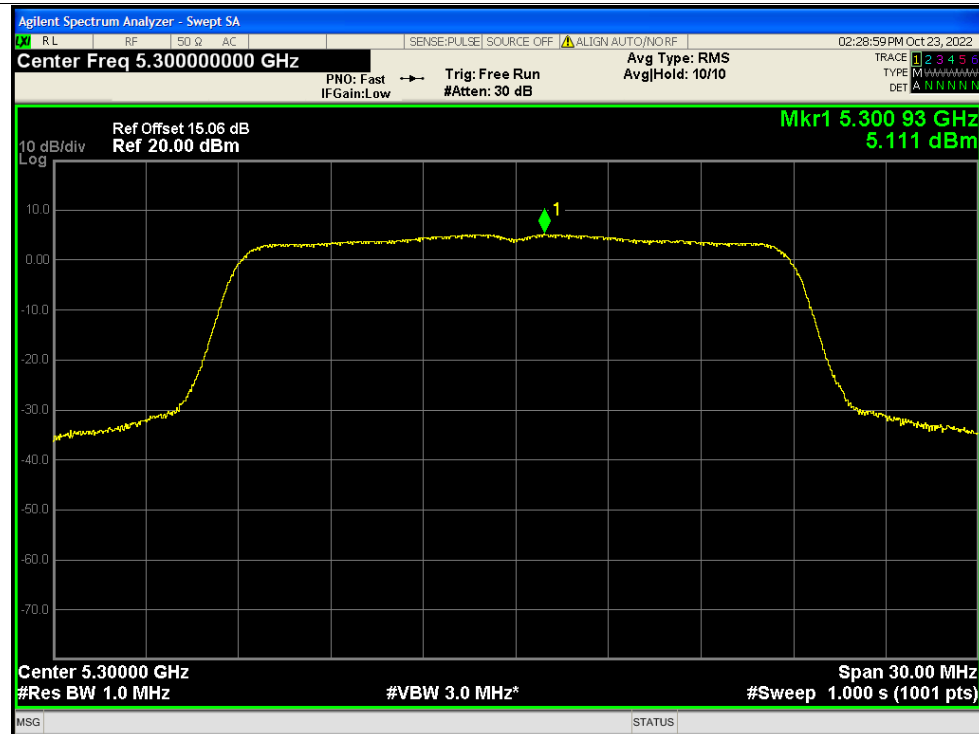


PSD NVNT n20 5260MHz Ant1

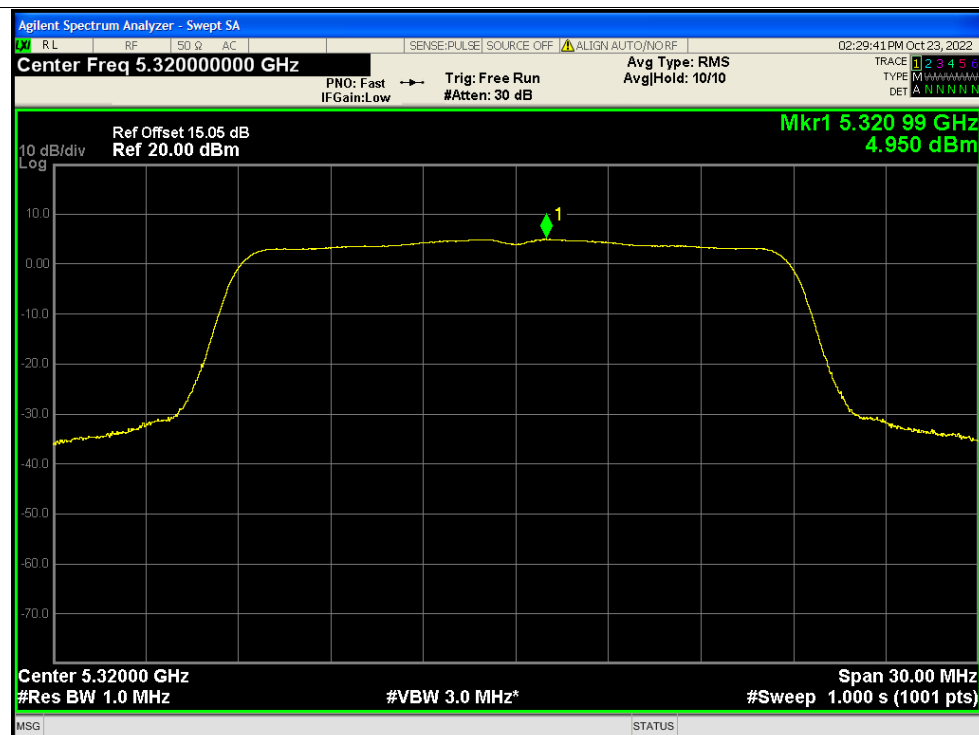




PSD NVNT n20 5300MHz Ant1

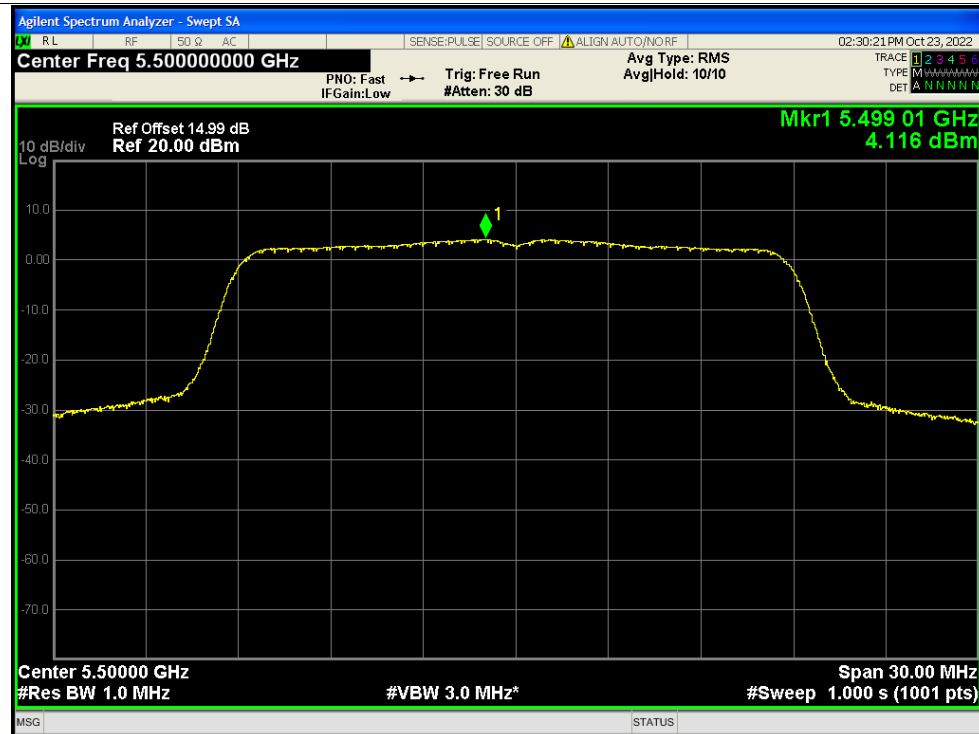


PSD NVNT n20 5320MHz Ant1

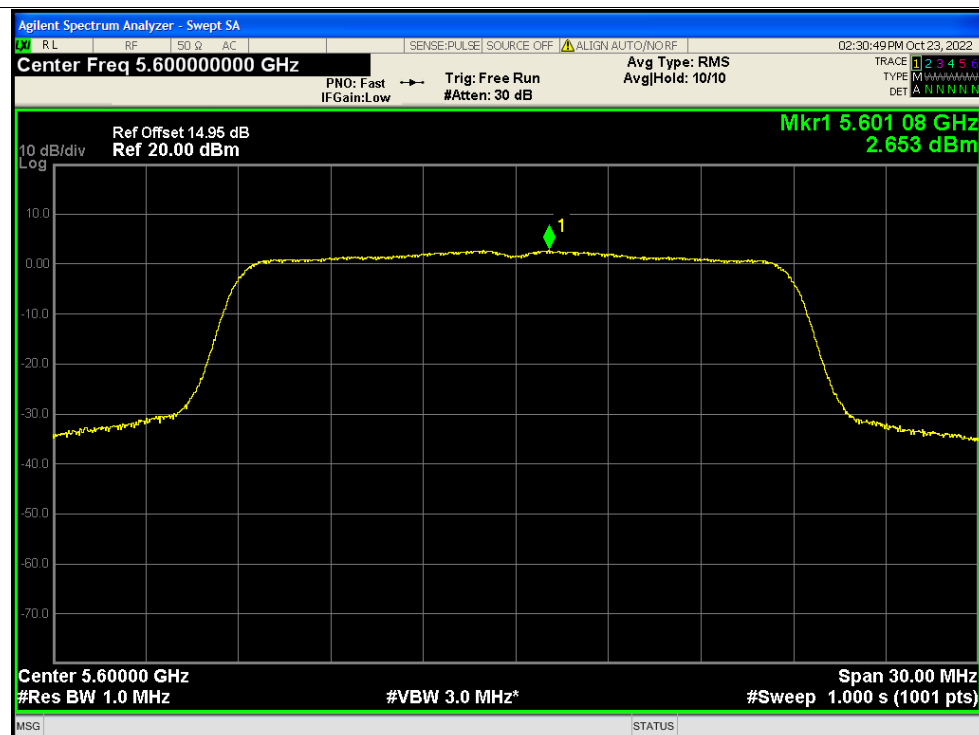




PSD NVNT n20 5500MHz Ant1

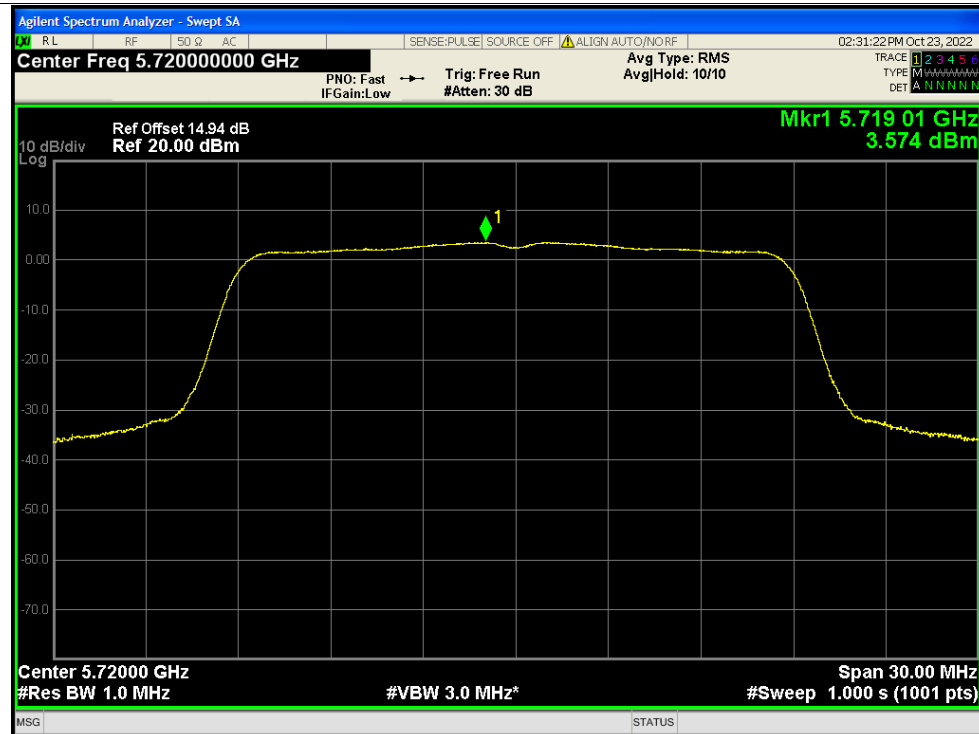


PSD NVNT n20 5600MHz Ant1

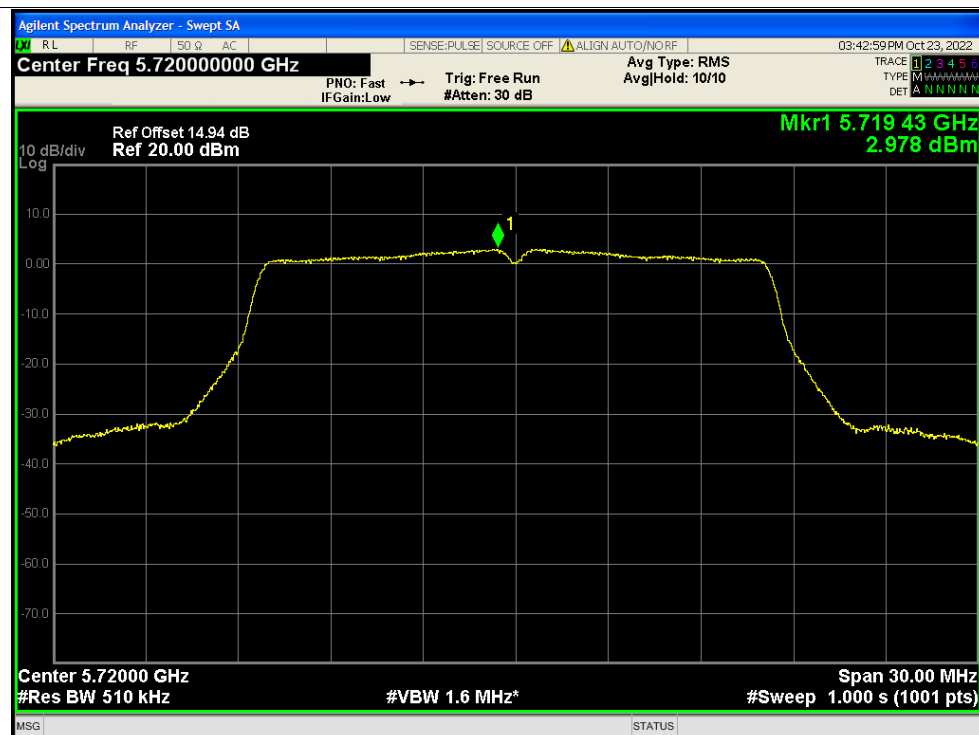




PSD NVNT n20 5720MHz Ant1

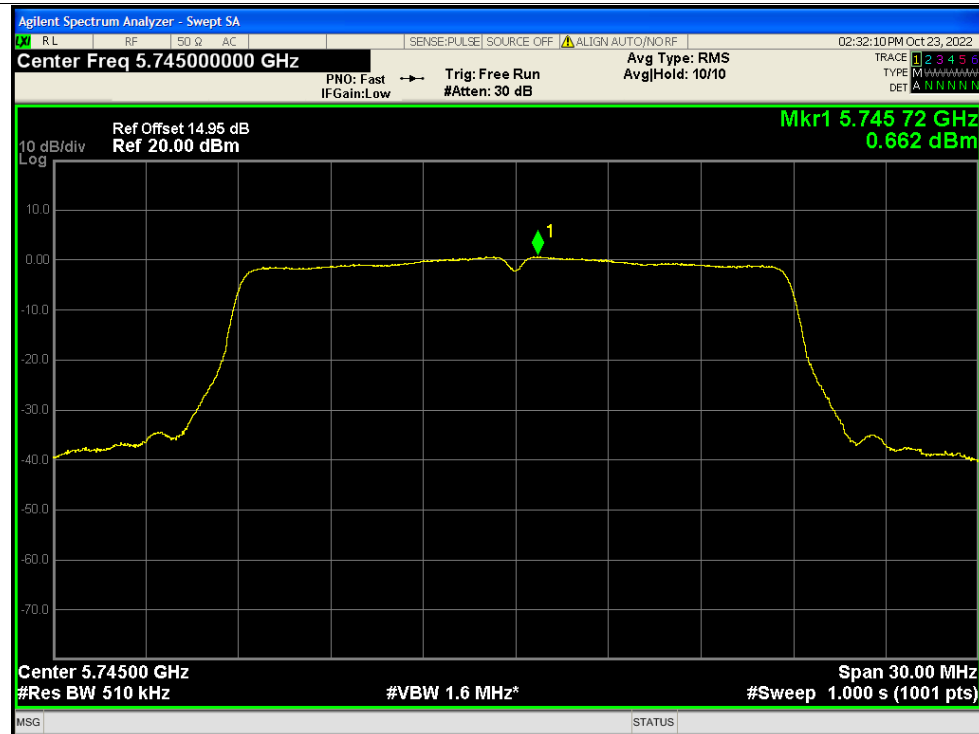


PSD NVNT a 5720MHz Ant1





PSD NVNT n20 5745MHz Ant1



PSD NVNT n20 5785MHz Ant1

