



REPORT No.: SZ25090313W03

TEST REPORT

APPLICANT : DrKumo Inc.

PRODUCT NAME : Tablet

MODEL NAME : XL100

BRAND NAME : Drkumo

FCC ID : 2BP5Q-XL100

STANDARD(S) : 47 CFR Part 15 Subpart E

RECEIPT DATE : 2025.06.09

TEST DATE : 2025.06.10-2025.09.19

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DIRECTORY

1. Summary of Test Result	4
1.1. Testing Applied Standards	5
1.2. Test Equipment List	6
1.3. Measurement Uncertainty	8
1.4. Testing Laboratory	8
2. General Description	9
2.1. Information of Applicant and Manufacturer	9
2.2. Information of EUT	9
2.3. Channel List of EUT	10
2.4. Test Configuration of EUT	11
2.5. Test Conditions	11
2.6. Test Setup Layout Diagram	12
3. Test Results	15
3.1. Antenna Requirement	15
3.2. Duty Cycle of Test Signal	16
3.3. Maximum Conducted Output Power	17
3.4. Emission Bandwidth	18
3.5. Peak Power Spectral Density	20
3.6. Frequency Stability	21
3.7. Dynamic Frequency Selection	22
3.8. Conducted Emission	27
3.9. Restricted Frequency Bands	28
3.10. Radiated Emission	30
Annex A Test Data and Result	32



REPORT No.: SZ25090313W03

Change History		
Version	Date	Reason for change
1.0	2025-09-22	First edition



1. Summary of Test Result

No.	Section	Description	Test Date	Test Engineer	Result	Remark
1	15.203	Antenna Requirement	N/A	N/A	PASS	/
2	ANSI C63.10	Duty Cycle of the Test Signal	Aug. 08&09, 2025	Zhu Peihong	PASS	/
3	15.407(a)	Maximum Conducted Output Power	Aug. 08&09, 2025	Zhu Peihong	PASS	/
4	15.407(a)(e)	Emission Bandwidth	Aug. 08&09, 2025	Zhu Peihong	PASS	/
5	15.407(a)	Peak Power Spectral Density	Aug. 08&09, 2025	Zhu Peihong	PASS	/
6	15.407(g)	Frequency Stability	Aug. 15, 2025	Zhu Peihong	PASS	/
7	15.407(h)	DFS	Aug. 21, 2025	Zhu Peihong	PASS	/
8	15.207	Conducted Emission	Aug. 06, 2025	Wang Yapeng	PASS	/
9	15.407(b)	Restricted Frequency Bands	Aug. 16, 2025	Gao Jianrou	PASS	/
10	15.407(b)	Radiated Emission	Aug. 08, 2025	Gao Jianrou	PASS	/

Note 1: The tests of Conducted Emission and Radiated Emission were performed according to the method of measurements prescribed in ANSI C63.10-2020.

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

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

Note 4: Any additions, deviation, or exclusions from the method shall be noted in the “Remark”.



1.1. Testing Applied Standards

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

- 47 CFR Part 15 Subpart E Radio Frequency Devices



1.2. Test Equipment List

1.2.1 Conducted Test Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
EXA Signal Analyzer	MY53470836	N9010A	Agilent	2025.01.15	2026.01.14
Power Sensor	MY54180008	U2021XA	Agilent	2024.09.11	2025.09.10
				2025.09.09	2026.09.08
Temperature Chamber	12108015	DTL-003 S101	YOMA	2024.09.11	2025.09.10
				2025.09.09	2026.09.08
RF Cable (30MHz-26GHz)	CB01	RF01	Morlab	N/A	N/A
SMA Connector	CN01	RF03	HUBER-SUHNER	N/A	N/A

1.2.2 Conducted Emission Test Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	101052	ESPI	R&S	2025.05.15	2026.05.14
LISN	103131	ENV 216	R&S	2025.03.20	2026.03.19
RF Coaxial Cable (DC-100MHz)	EMC-CE-00 514	N/A	N/A	2025.05.06	2026.05.05

1.2.3 List of Software Used

Description	Manufacturer	Software Version
Test System	MaiWei	2.0.0.0
JS32-RE	Tonscend	5.0.0
TS+ -[JS32-CE]	Tonscend	2.5.0.0

**1.2.4 Radiated Test Equipment**

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Signal Analyzer	MY56060145	N9020A	Agilent	2025.05.13	2026.05.12
Test Antenna - Bi-Log	9163-274	VULB 9163	Schwarzbeck	2025.06.28	2026.06.27
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2025.05.16	2026.05.15
Test Antenna – Horn	9120D-963	BBHA 9120D	Schwarzbeck	2025.05.16	2026.05.15
Test Antenna – Horn	BBHA9170 #773	BBHA9170	Schwarzbeck	2025.06.20	2026.06.19
Preamplifier (10MHz-6GHz)	46732	S10M100L38 02	LUCIX CORP.	2025.05.13	2026.05.12
Preamplifier (2GHz-18GHz)	61171/61172	S020180L32 03	LUCIX CORP.	2025.05.13	2026.05.12
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-K K-0.5	Qualwave	2024.09.11	2025.09.10
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-K KF-2	Qualwave	2024.09.11	2025.09.10
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-N N-5	Qualwave	2024.09.11	2025.09.10
Anechoic Chamber	N/A	9m*6m*6m	CRT	2025.06.21	2028.06.20
Anechoic Chamber	N/A	9m*6m*6m	CRT	2022.11.30	2025.11.29



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.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
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FCC Designation Number:	CN1192
FCC Test Firm Registration Number:	226174



2. General Description

2.1. Information of Applicant and Manufacturer

Applicant:	DrKumo Inc.
Applicant Address:	6850 Lincoln Ave. STE 102 Buena Park, CA 90620, USA.
Manufacturer:	DrKumo Inc.
Manufacturer Address:	6850 Lincoln Ave. STE 102 Buena Park, CA 90620, USA.

2.2. Information of EUT

Product Name:	Tablet	
Sample No.:	1#	
Hardware Version:	AP37_P1	
Software Version:	HPP-AP37-1.0.4	
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	
DFS Function:	☒ Slave without radar detection ☐ Slave with radar detection ☐ Master	
Antenna Type:	Internal Antenna	
Antenna Gain:	-0.85dBi	
Accessory Information:	Battery	
	Brand Name:	hotpepper
	Model No.:	HLP2504G50
	Serial No.:	N/A
	Capacity:	5000mAh
	Rated Voltage:	3.8V
	Charge Limit:	4.35V
	Manufacturer:	Shenzhen Aerospace Electronic Co., Ltd.

Note 1: The EUT description presented in the report are provided by applicant and/or manufacturer, and the test laboratory is not responsible for the accuracy of the information. 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	104	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	141	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	5755	159	5795
80MHz	155	5775		

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



2.4. Test Configuration of EUT

2.4.1. Modulation Type and Data Rate of EUT

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

Note2: The RF signal transmission of EUT is controlled by the build-in engineering mode which is provided by the manufacturer. The recorded power setting value is the maximum that the engineering mode has configuration during testing.

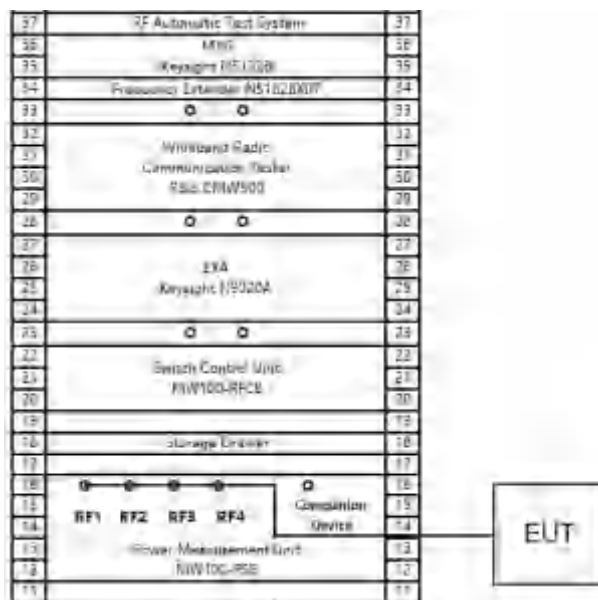
2.5. Test Conditions

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

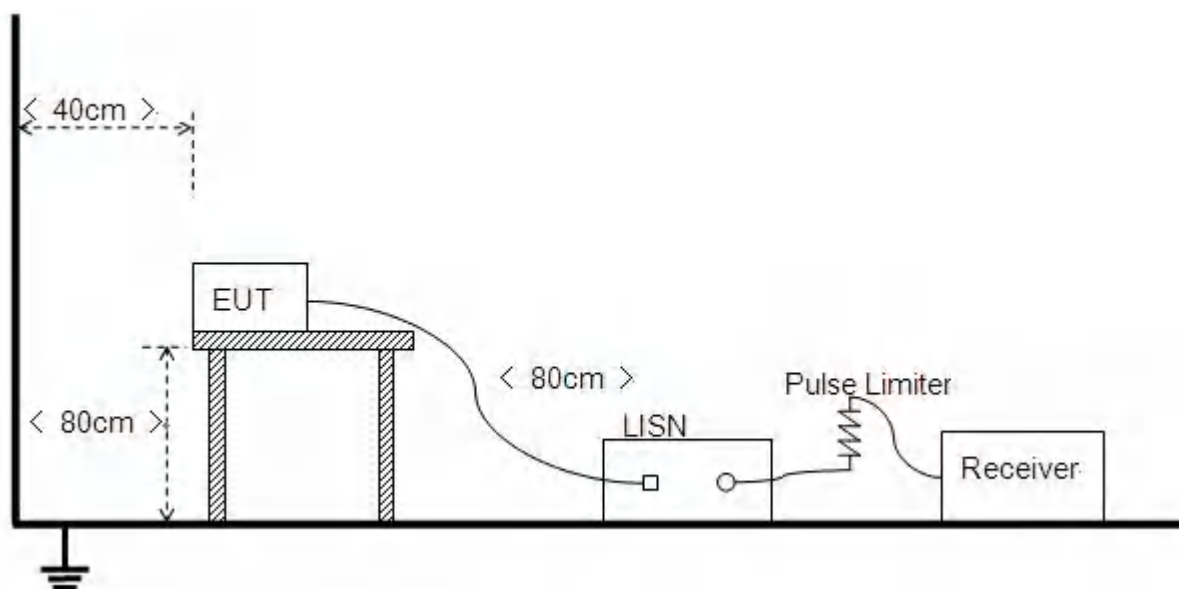


2.6. Test Setup Layout Diagram

2.6.1. Conducted Measurement



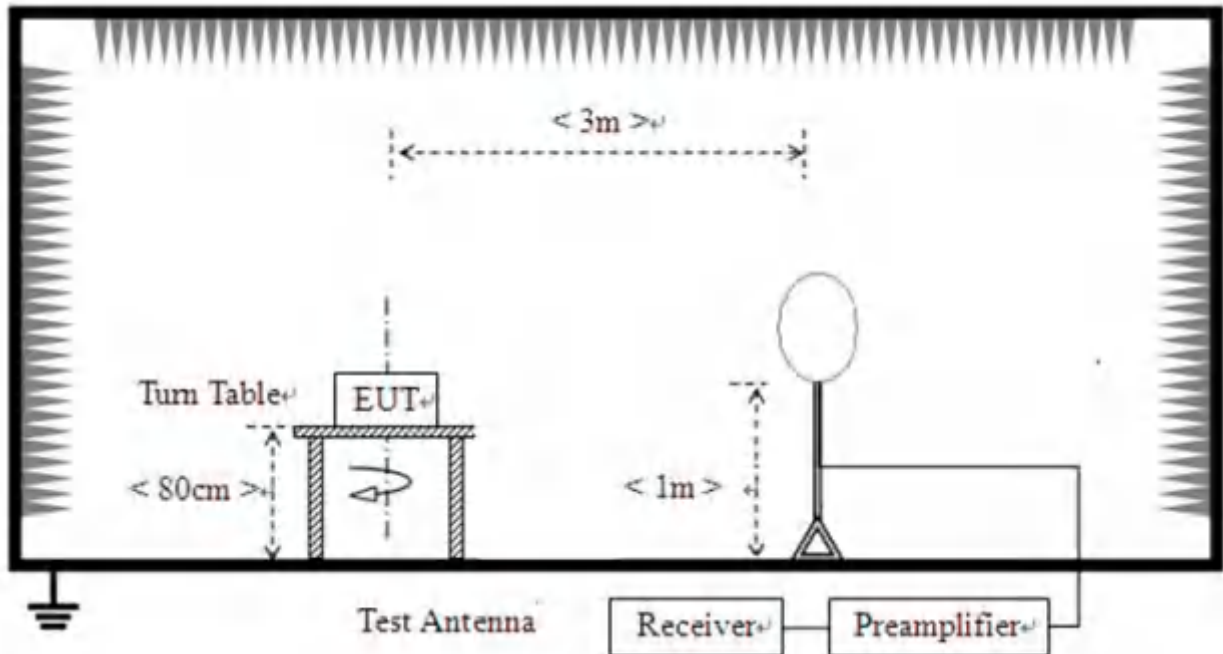
2.6.2. Conducted Emission Measurement



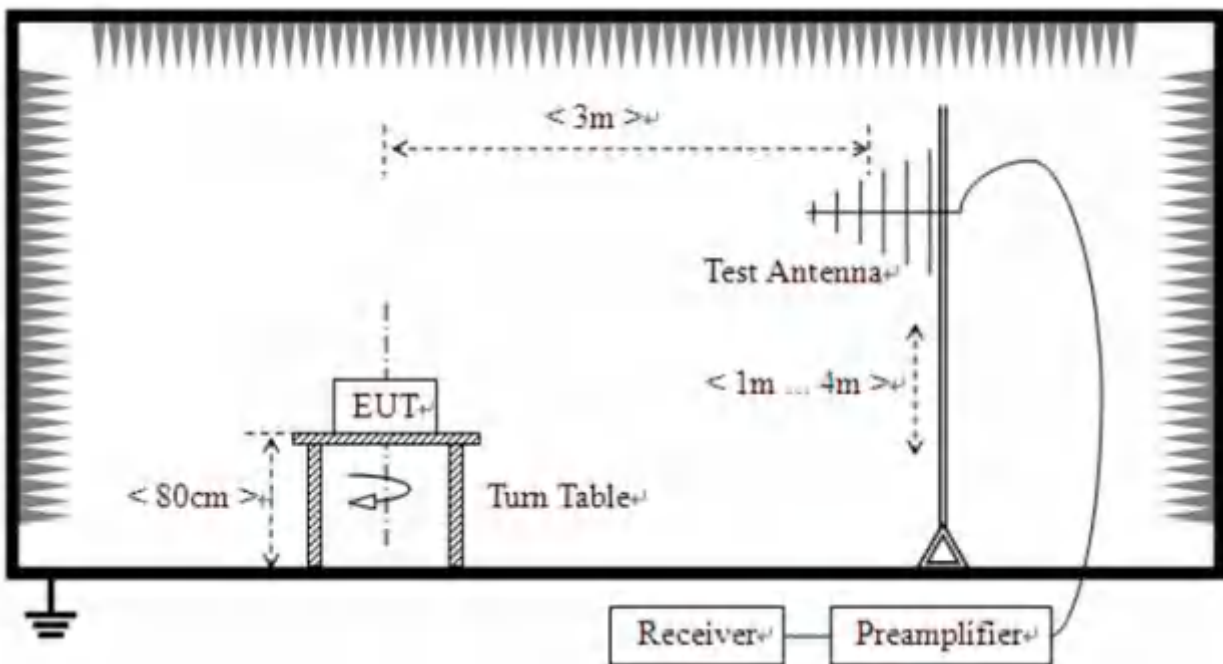


2.6.3.Radiation Measurement

- 1) For radiated emissions from 9kHz to 30MHz

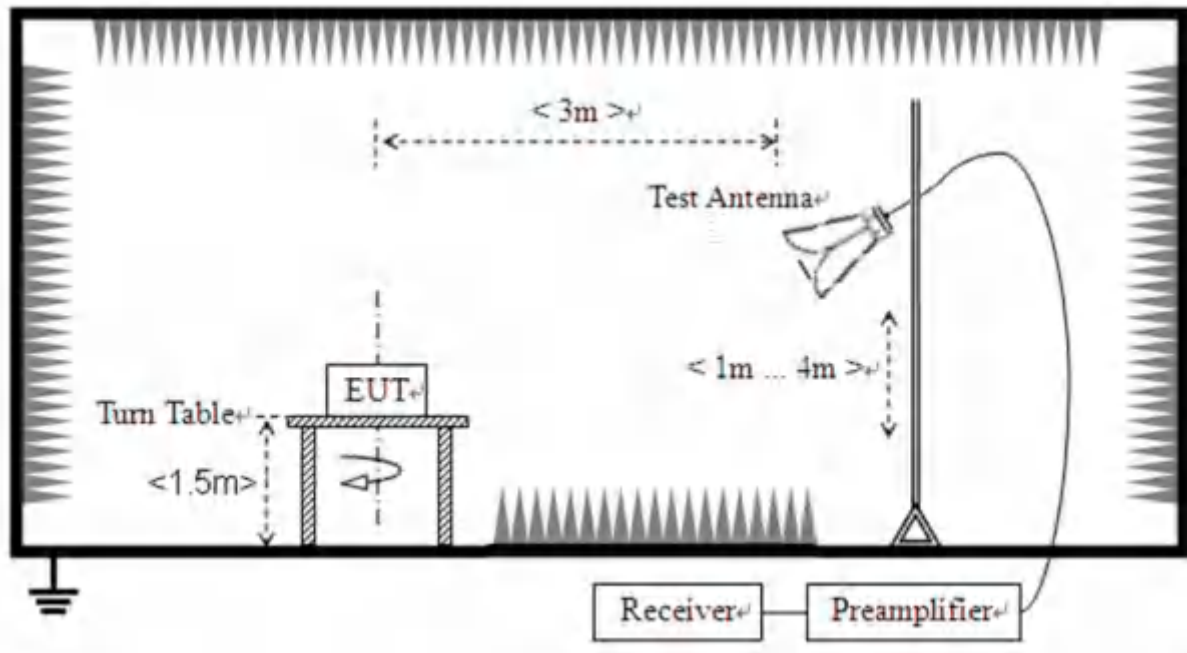


- 2) For radiated emissions from 30MHz to 1GHz





3) For radiated emissions above 1GHz





3. Test Results

3.1. Antenna Requirement

3.1.1. Requirement

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

3.1.2. Test Result

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



3.2. Duty Cycle of Test Signal

3.2.1. Requirement

Preferably, all measurements of maximum conducted (average) output power will be performed with the EUT transmitting continuously (i.e., with a duty cycle of greater than or equal to 98%). When continuous operation cannot be realized, then the use of sweep triggering/signal gating techniques can be used to ensure that measurements are made only during transmissions at the maximum power control level. Such sweep triggering/signal gating techniques will require knowledge of the minimum transmission duration (T) over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Sweep triggering/signal gating techniques can then be used if the measurement/sweep time of the analyzer can be set such that it does not exceed T at any time that data are being acquired (i.e., no transmitter OFF-time is to be considered).

When continuous transmission cannot be achieved and sweep triggering/signal gating cannot be implemented, alternative procedures are provided that can be used to measure the average power; however, they will require an additional measurement of the transmitter duty cycle (D). Within this sub clause, the duty cycle refers to the fraction of time over which the transmitter is ON and is transmitting at its maximum power control level. The duty cycle is considered to be constant if variations are less than $\pm 2\%$; 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.

3.3.2. Test Procedures

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

3.3.3. Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.3.4. Test Result

Refer to Annex A.2 in this report.



3.4. Emission Bandwidth

3.4.1. Requirement

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

3.4.1. Test Procedures

1. KDB 789033 Section C) 1) Emission Bandwidth was used in order to prove compliance
 - a) Set RBW = approximately 1% of the emission bandwidth.
 - b) Set VBW > RBW.
 - c) Detector = Peak.
 - d) Trace mode = max hold.
 - e) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
2. KDB 789033 Section C) 2) minimum emission bandwidth for the band 5.725-5.85GHz was used in order to prove compliance.

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for 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.



REPORT No.: SZ25090313W03

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.

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:

Client Devices

- A Client Device will not transmit before having received appropriate control signals from a Master Device.
- 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.
- 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.
- Irrespective of Client Device or Master Device detection the Channel Move Time and Channel Closing Transmission Time requirements remain the same.
- 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

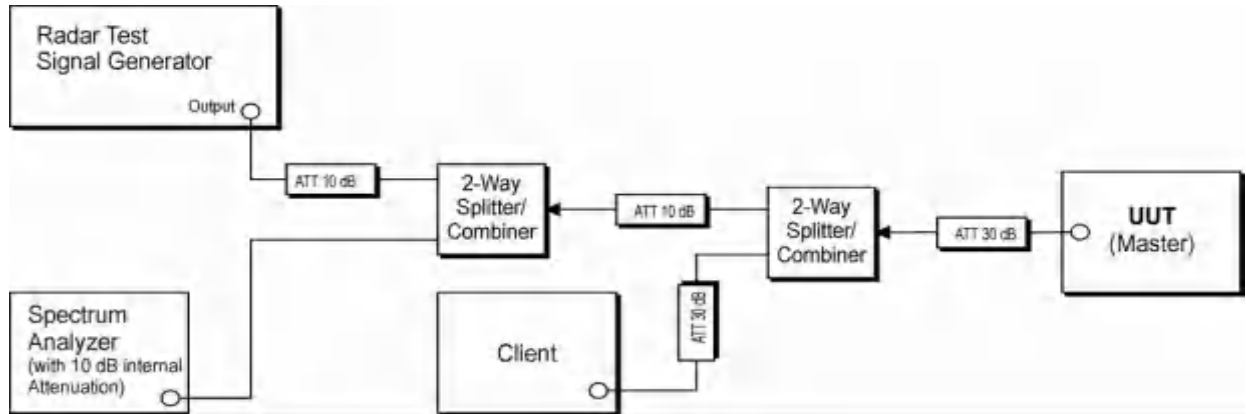
Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	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

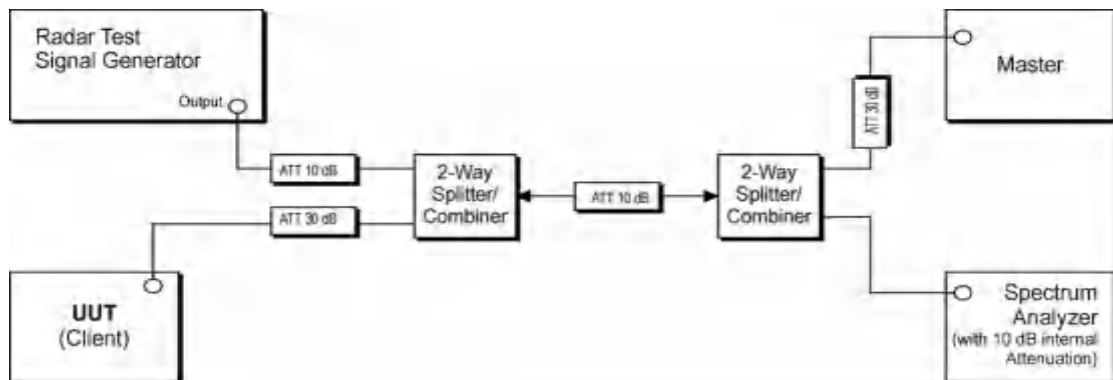
According to Section 7.2 of KDB 905462 D02 V01R01

1. Setup for Master with injection at the Master



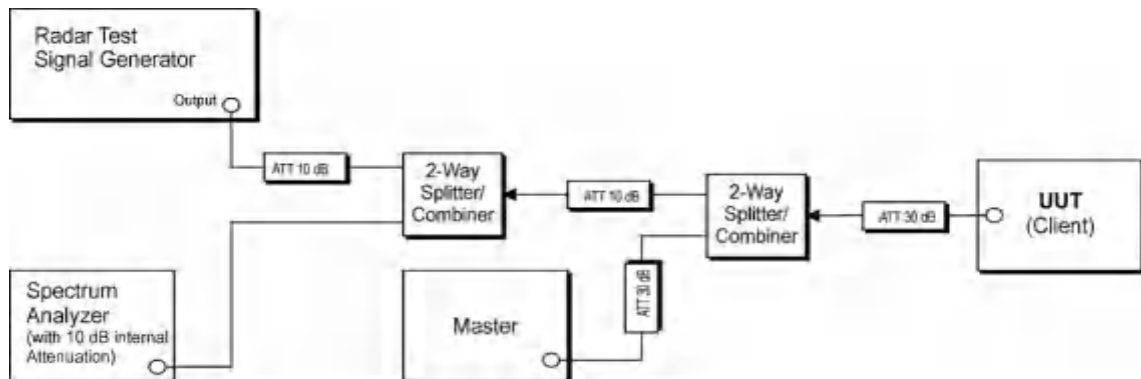
(Example Conducted Setup where UUT is a Master and Radar Test Waveforms are injected into the Master)

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)



REPORT No.: SZ25090313W03

injected into the Client)

3.7.3.Information of Companion Device

Product Name:	Tablet
Manufacturer:	DrKumo Inc.
FCC ID:	2BP5Q-XL100
Device Type:	Slaver Device without Radar detection function
Operating Mode:	Slaver Device without Radar detection function
Serial No:	N/A
Antenna Gain:	-0.85dBi

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.

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);

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

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 dBμV/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)
NVNT	a	5180	Ant1	100	0
NVNT	a	5200	Ant1	100	0
NVNT	a	5240	Ant1	100	0
NVNT	ac20	5180	Ant1	100	0
NVNT	ac20	5200	Ant1	100	0
NVNT	ac20	5240	Ant1	100	0
NVNT	ac40	5190	Ant1	100	0
NVNT	ac40	5230	Ant1	100	0
NVNT	ac80	5210	Ant1	100	0
NVNT	n20	5180	Ant1	100	0
NVNT	n20	5200	Ant1	100	0
NVNT	n20	5240	Ant1	100	0
NVNT	n40	5190	Ant1	100	0
NVNT	n40	5230	Ant1	100	0

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5260	Ant1	100	0
NVNT	a	5280	Ant1	100	0
NVNT	a	5320	Ant1	100	0
NVNT	ac20	5260	Ant1	100	0
NVNT	ac20	5280	Ant1	100	0
NVNT	ac20	5320	Ant1	100	0
NVNT	ac40	5270	Ant1	100	0
NVNT	ac40	5310	Ant1	100	0
NVNT	ac80	5290	Ant1	100	0
NVNT	n20	5260	Ant1	100	0
NVNT	n20	5280	Ant1	100	0
NVNT	n20	5320	Ant1	100	0
NVNT	n40	5270	Ant1	100	0
NVNT	n40	5310	Ant1	100	0

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5500	Ant1	100	0

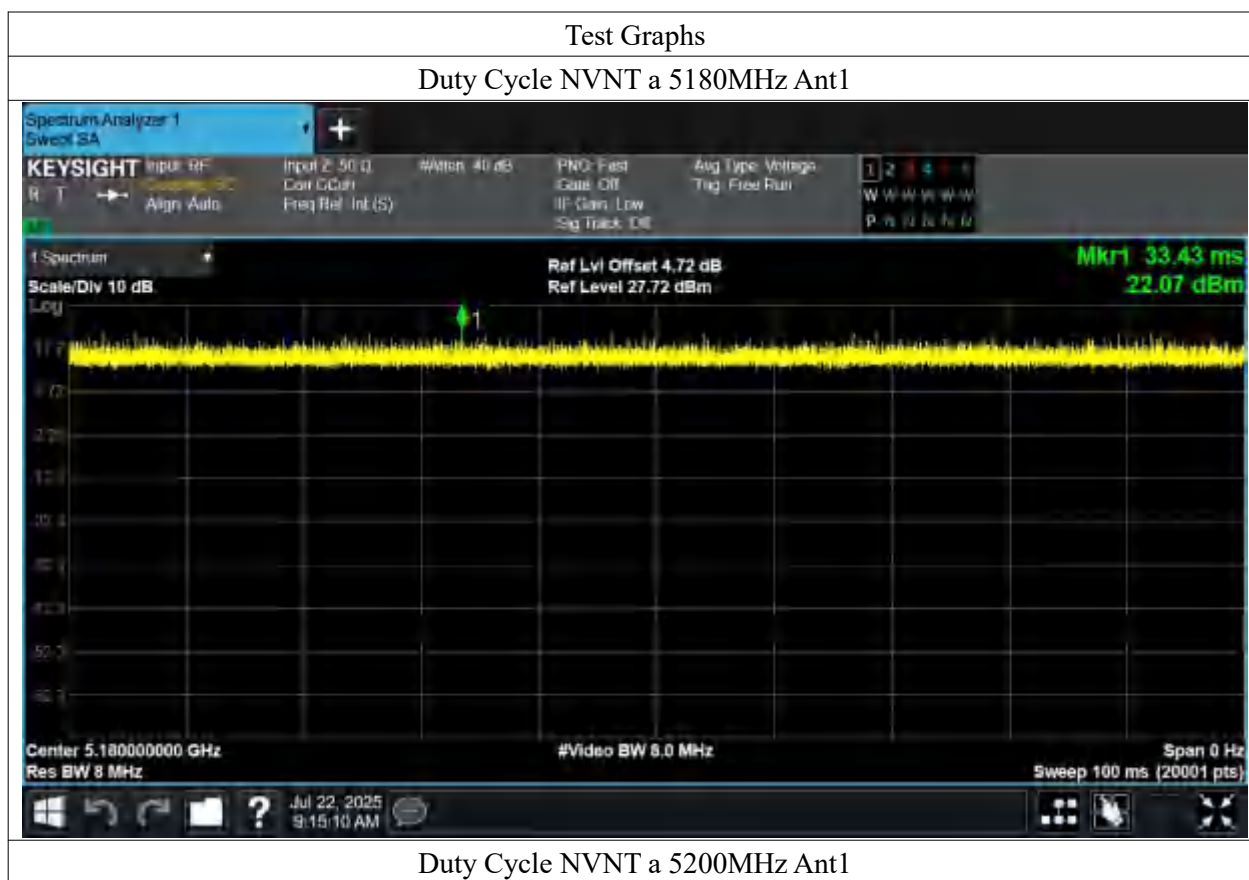


REPORT No.: SZ25090313W03

NVNT	a	5600	Ant1	100	0
NVNT	a	5700	Ant1	100	0
NVNT	ac20	5500	Ant1	100	0
NVNT	ac20	5600	Ant1	100	0
NVNT	ac20	5700	Ant1	100	0
NVNT	ac40	5510	Ant1	100	0
NVNT	ac40	5590	Ant1	100	0
NVNT	ac40	5670	Ant1	100	0
NVNT	ac80	5530	Ant1	100	0
NVNT	ac80	5610	Ant1	100	0
NVNT	n20	5500	Ant1	100	0
NVNT	n20	5600	Ant1	100	0
NVNT	n20	5700	Ant1	100	0
NVNT	n40	5510	Ant1	100	0
NVNT	n40	5590	Ant1	100	0
NVNT	n40	5670	Ant1	100	0



Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5745	Ant1	100	0
NVNT	a	5785	Ant1	100	0
NVNT	a	5825	Ant1	100	0
NVNT	ac20	5745	Ant1	100	0
NVNT	ac20	5785	Ant1	100	0
NVNT	ac20	5825	Ant1	100	0
NVNT	ac40	5755	Ant1	100	0
NVNT	ac40	5795	Ant1	100	0
NVNT	ac80	5775	Ant1	100	0
NVNT	n20	5745	Ant1	100	0
NVNT	n20	5785	Ant1	100	0
NVNT	n20	5825	Ant1	100	0
NVNT	n40	5755	Ant1	100	0
NVNT	n40	5795	Ant1	100	0

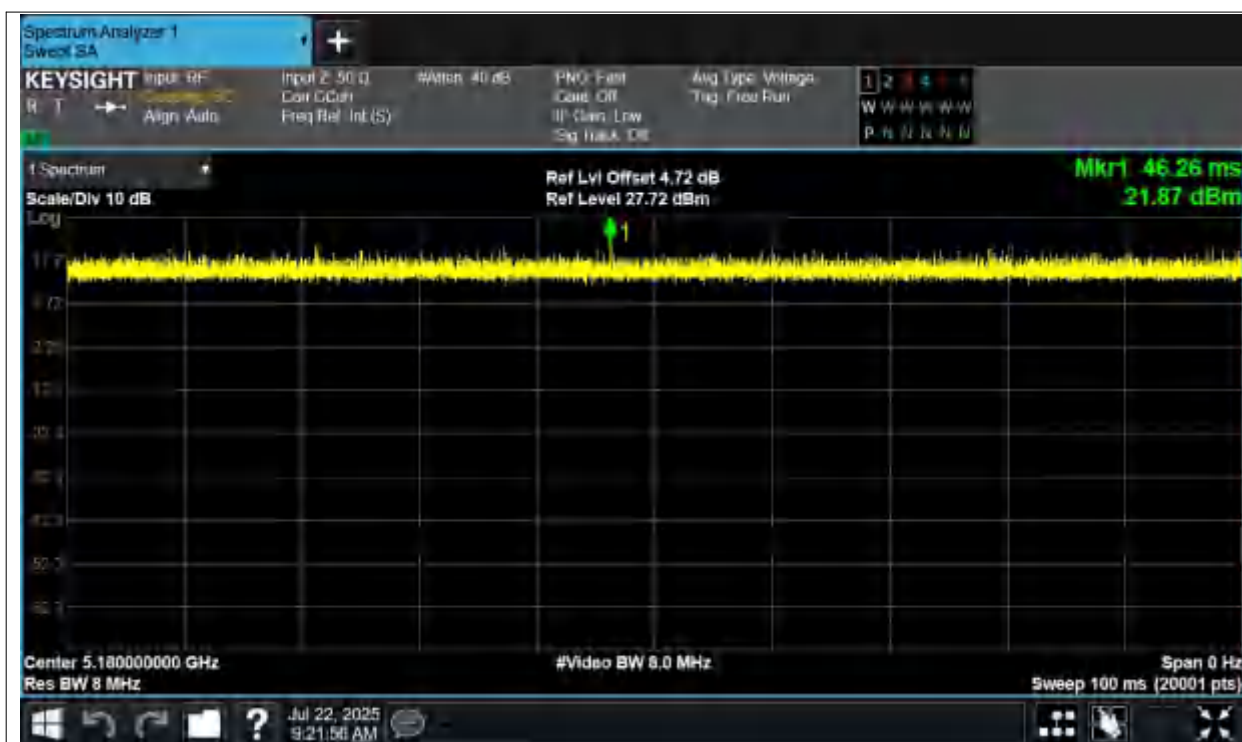




Duty Cycle NVNT a 5240MHz Ant1



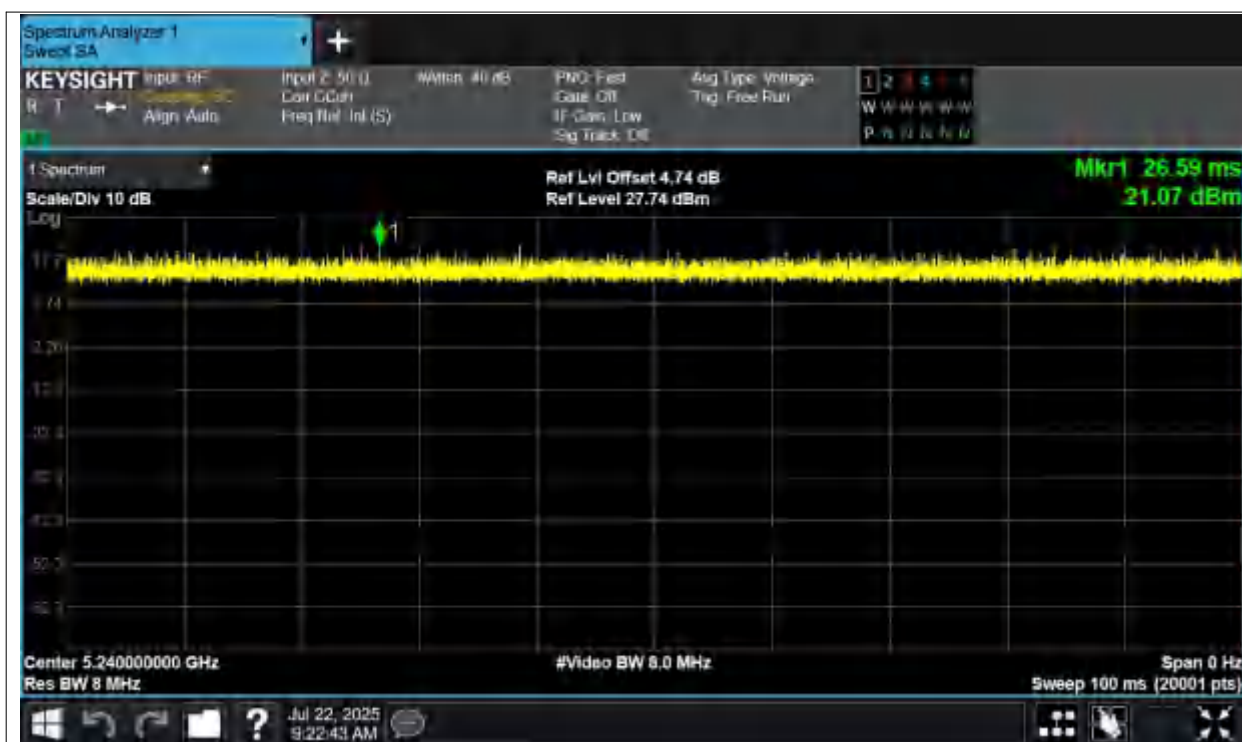
Duty Cycle NVNT ac20 5180MHz Ant1



Duty Cycle NVNT ac20 5200MHz Ant1



Duty Cycle NVNT ac20 5240MHz Ant1



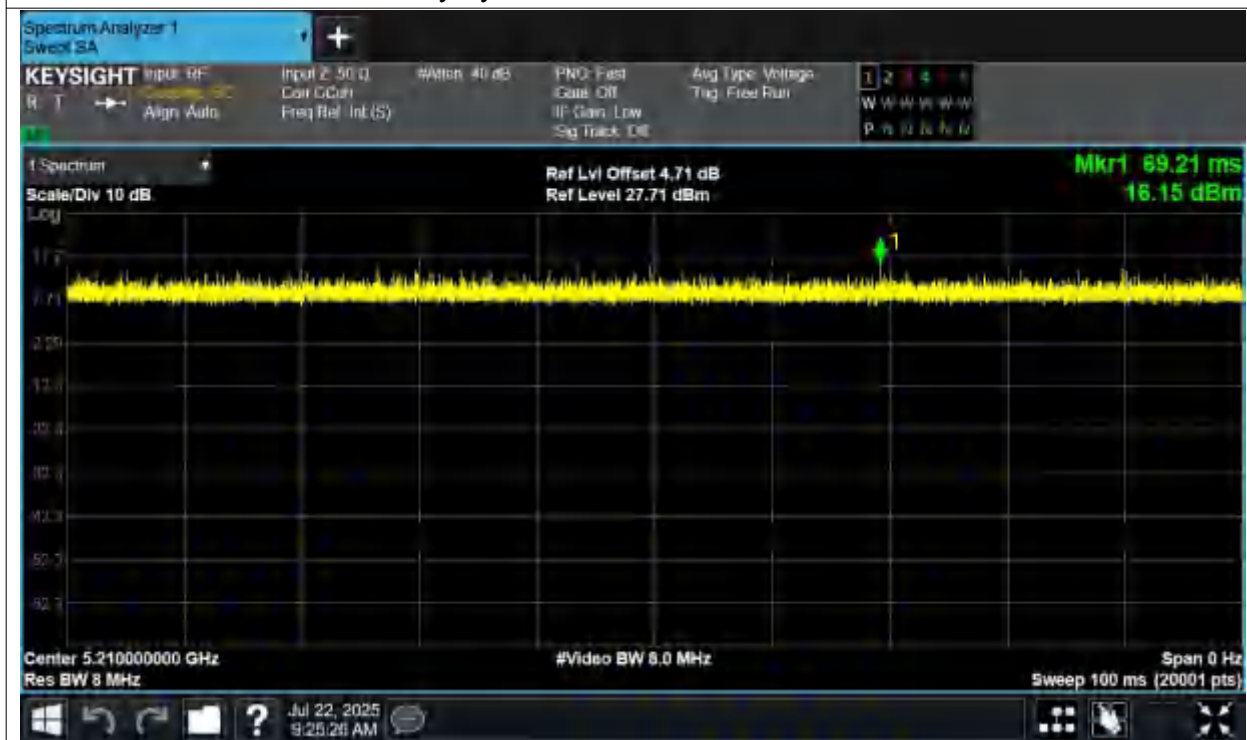
Duty Cycle NVNT ac40 5190MHz Ant1



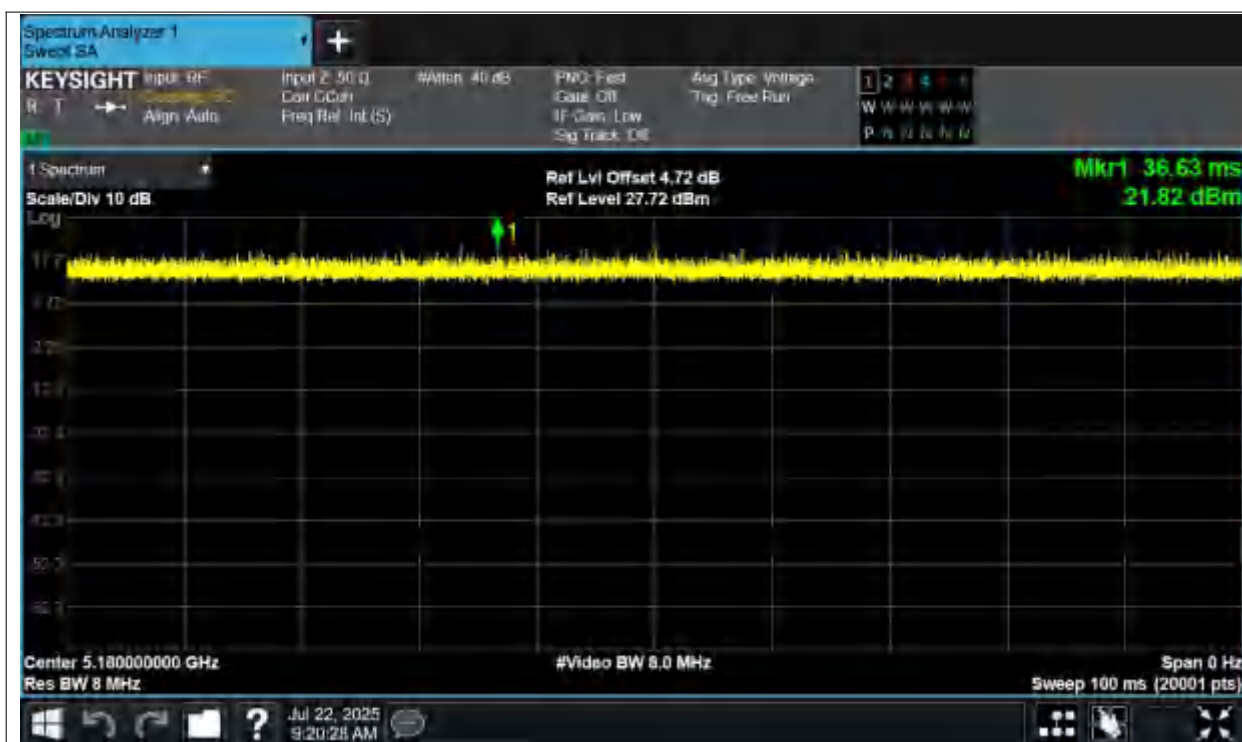
Duty Cycle NVNT ac40 5230MHz Ant1



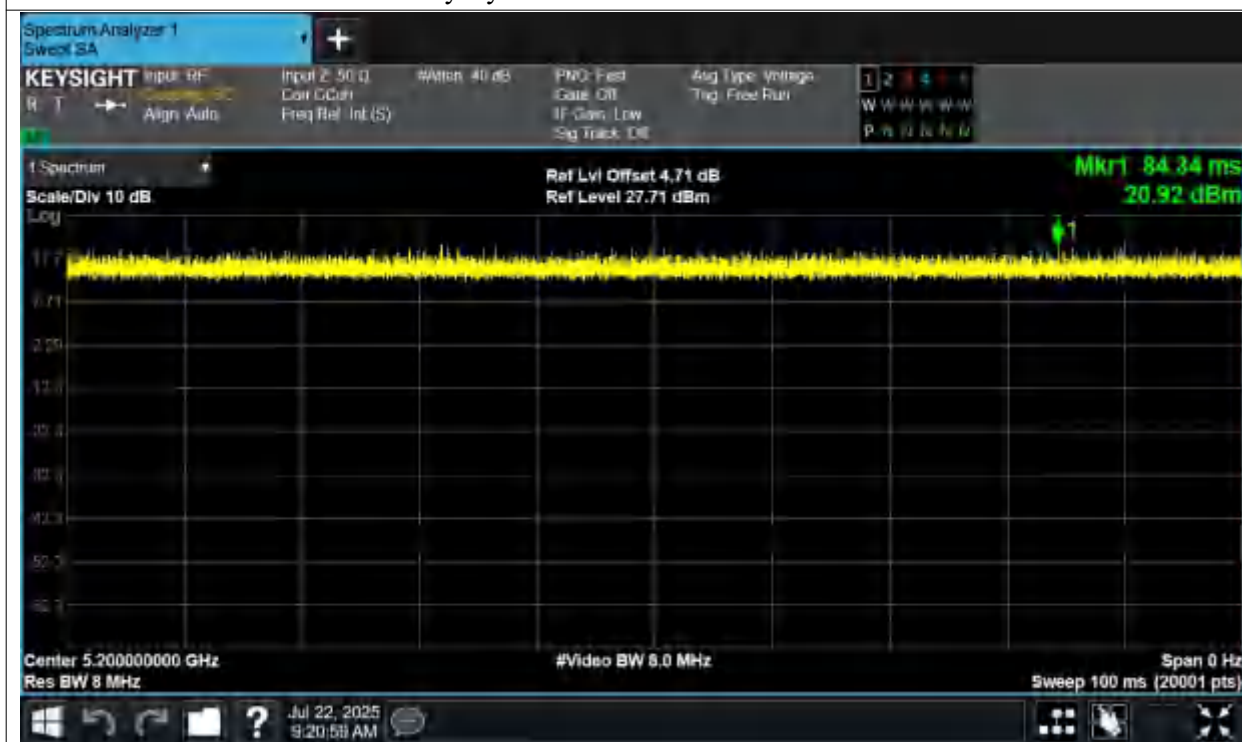
Duty Cycle NVNT ac80 5210MHz Ant1



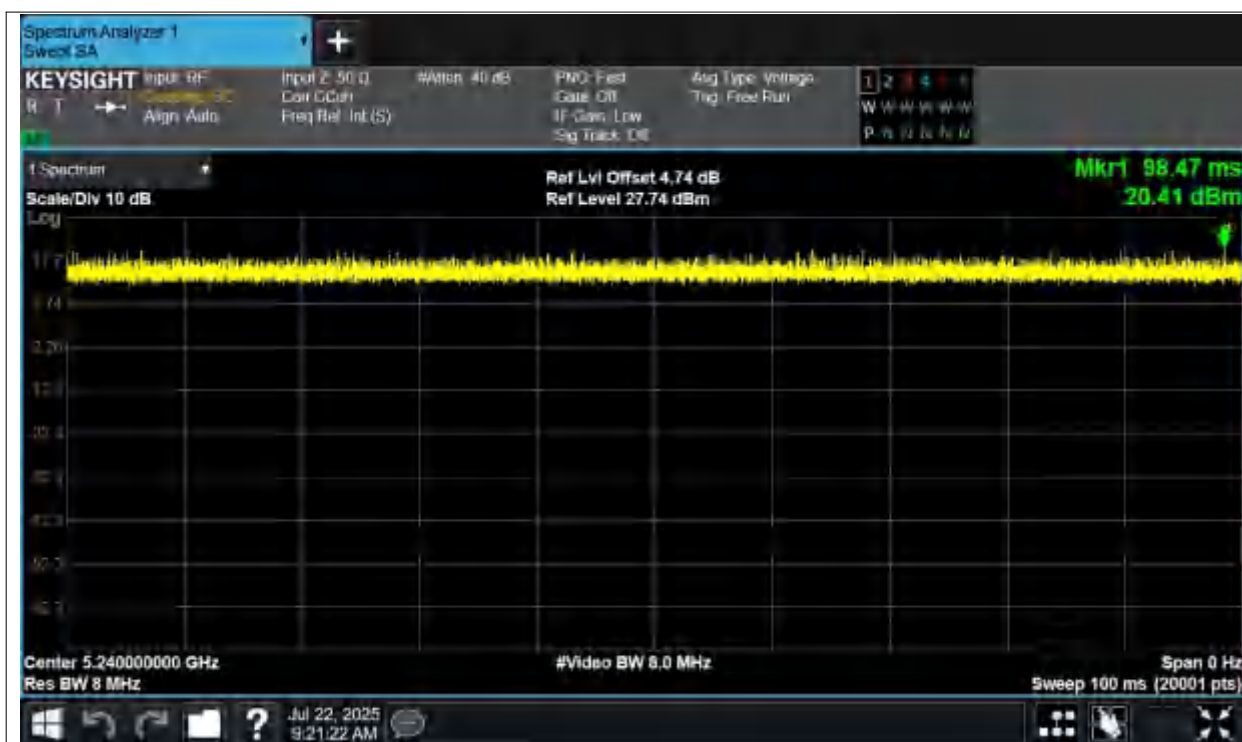
Duty Cycle NVNT n20 5180MHz Ant1



Duty Cycle NVNT n20 5200MHz Ant1



Duty Cycle NVNT n20 5240MHz Ant1



Duty Cycle NVNT n40 5190MHz Ant1



Duty Cycle NVNT n40 5230MHz Ant1



Test Graphs

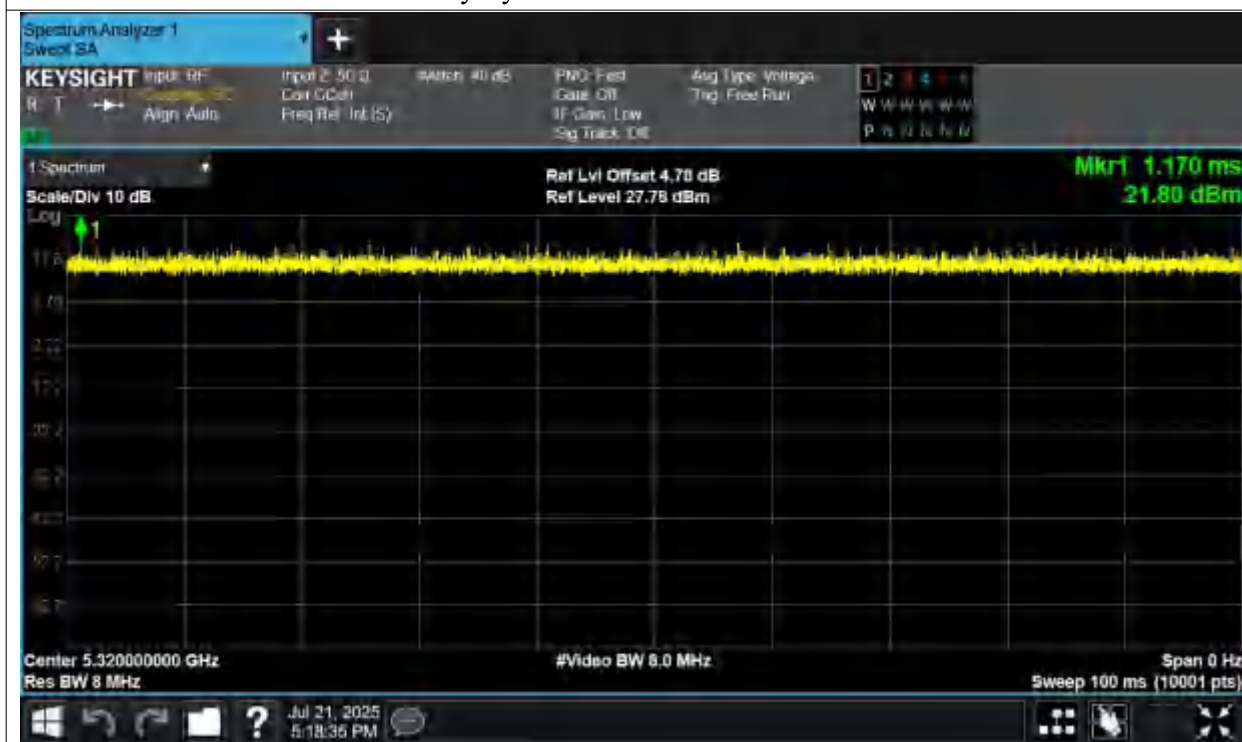
Duty Cycle NVNT a 5260MHz Ant1



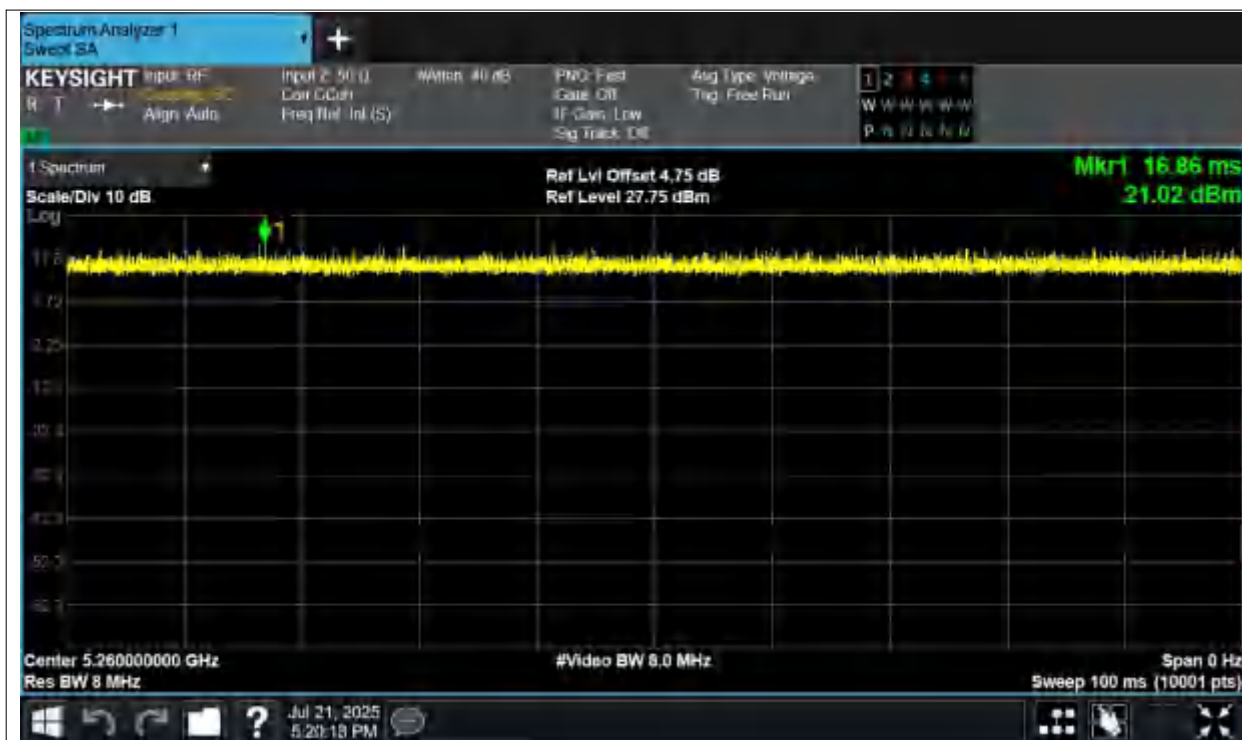
Duty Cycle NVNT a 5280MHz Ant1



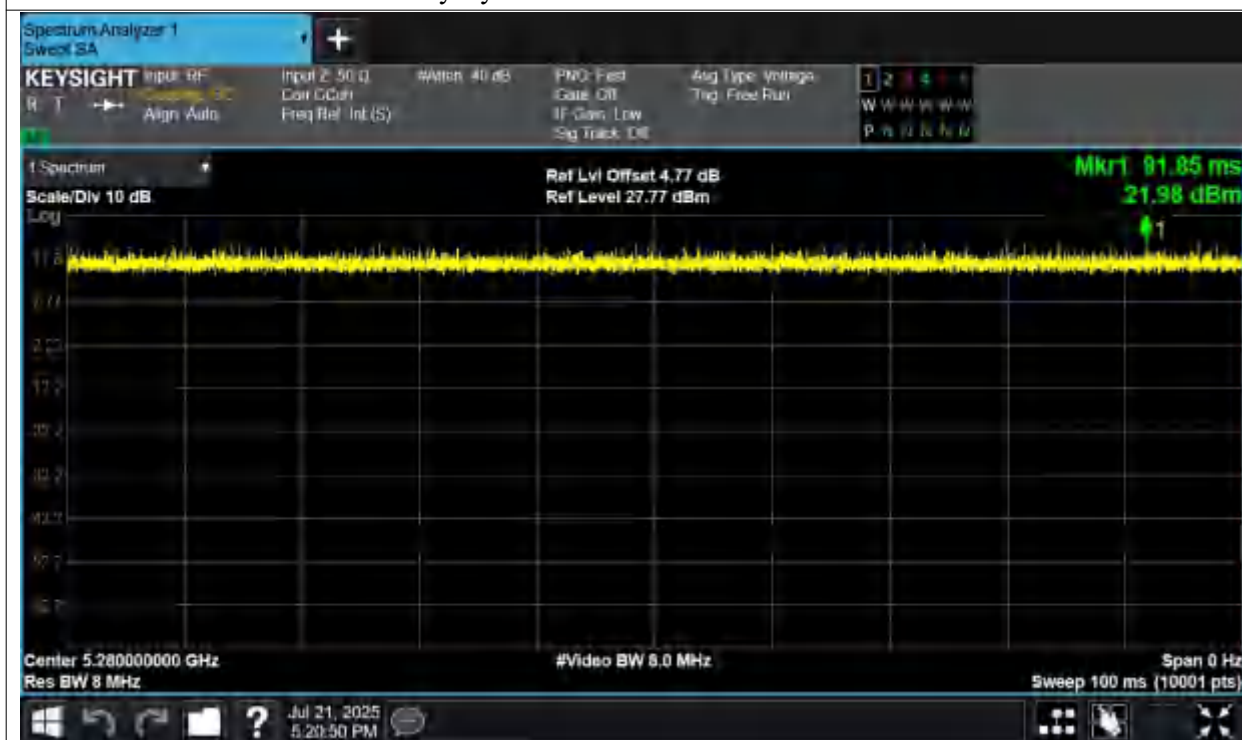
Duty Cycle NVNT a 5320MHz Ant1



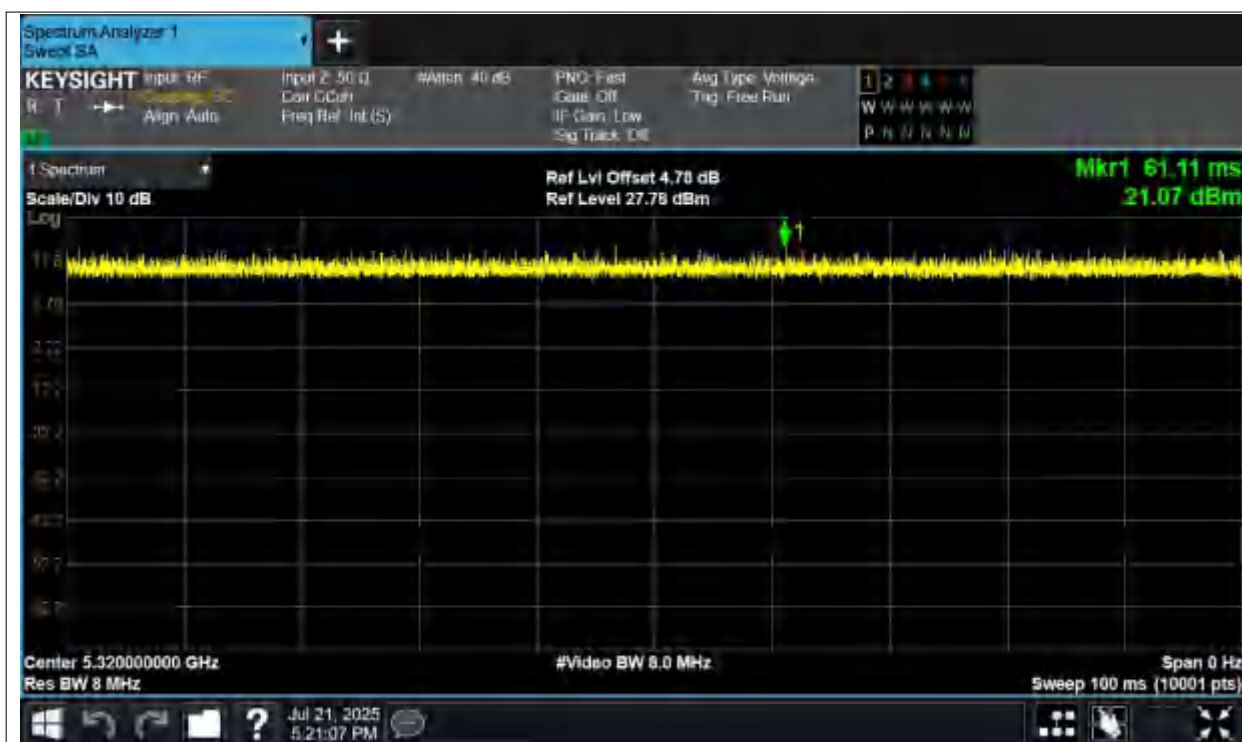
Duty Cycle NVNT ac20 5260MHz Ant1



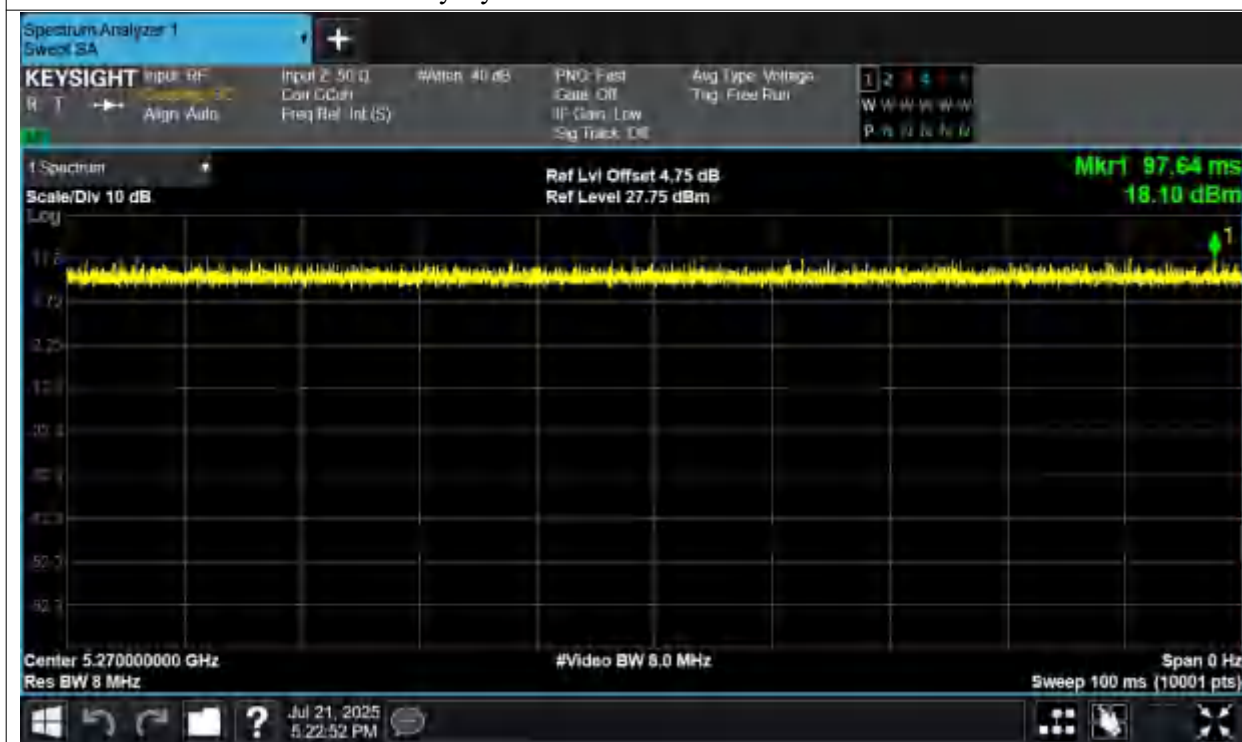
Duty Cycle NVNT ac20 5280MHz Ant1



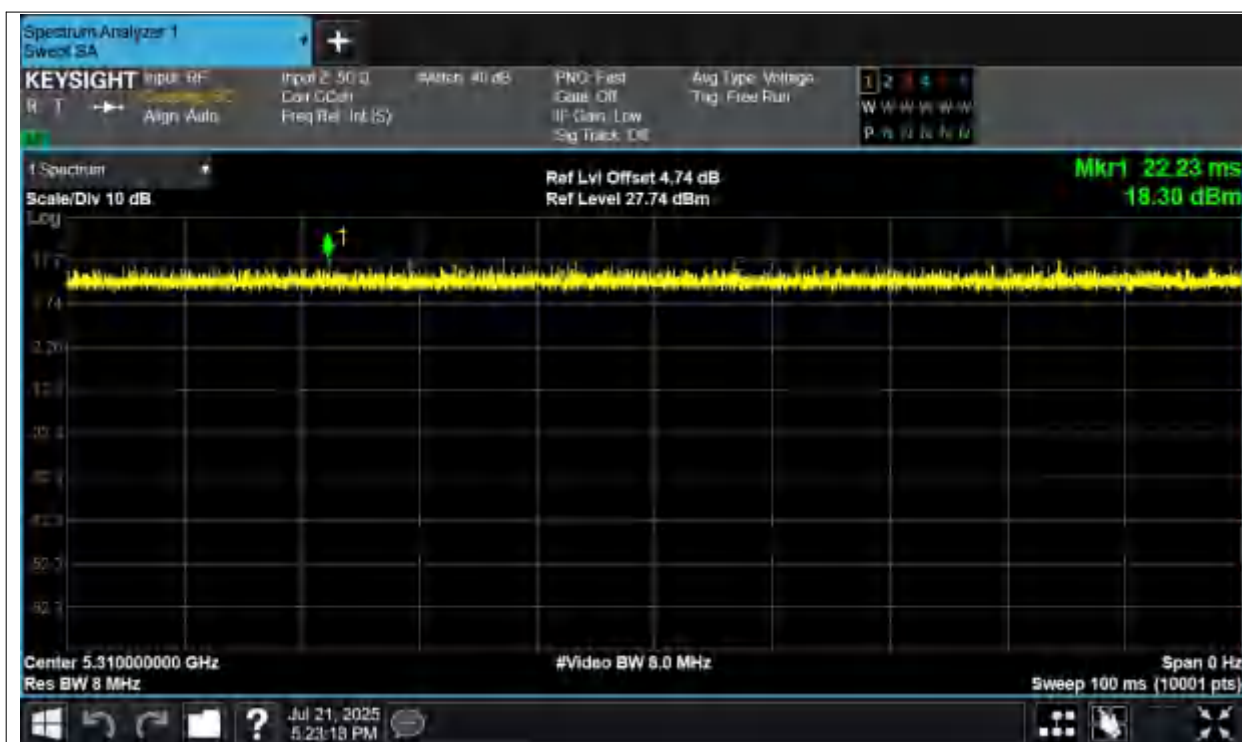
Duty Cycle NVNT ac20 5320MHz Ant1



Duty Cycle NVNT ac40 5270MHz Ant1



Duty Cycle NVNT ac40 5310MHz Ant1



Duty Cycle NVNT ac80 5290MHz Ant1



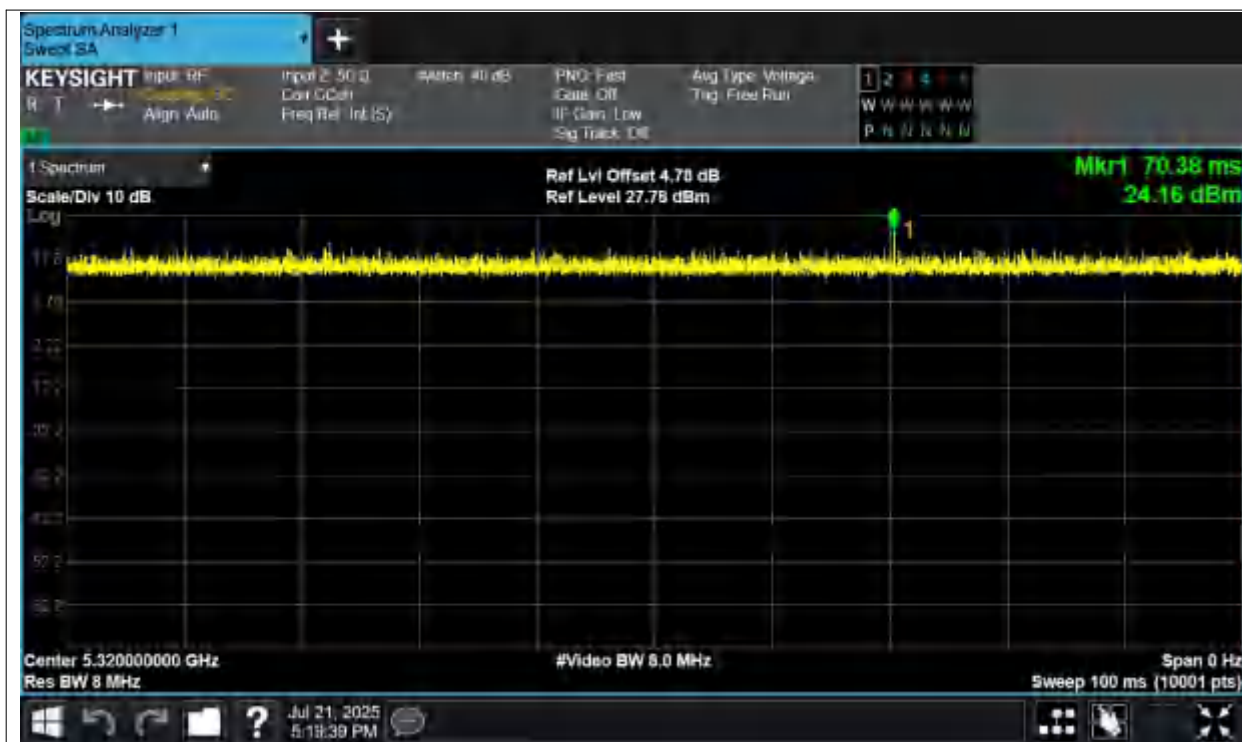
Duty Cycle NVNT n20 5260MHz Ant1



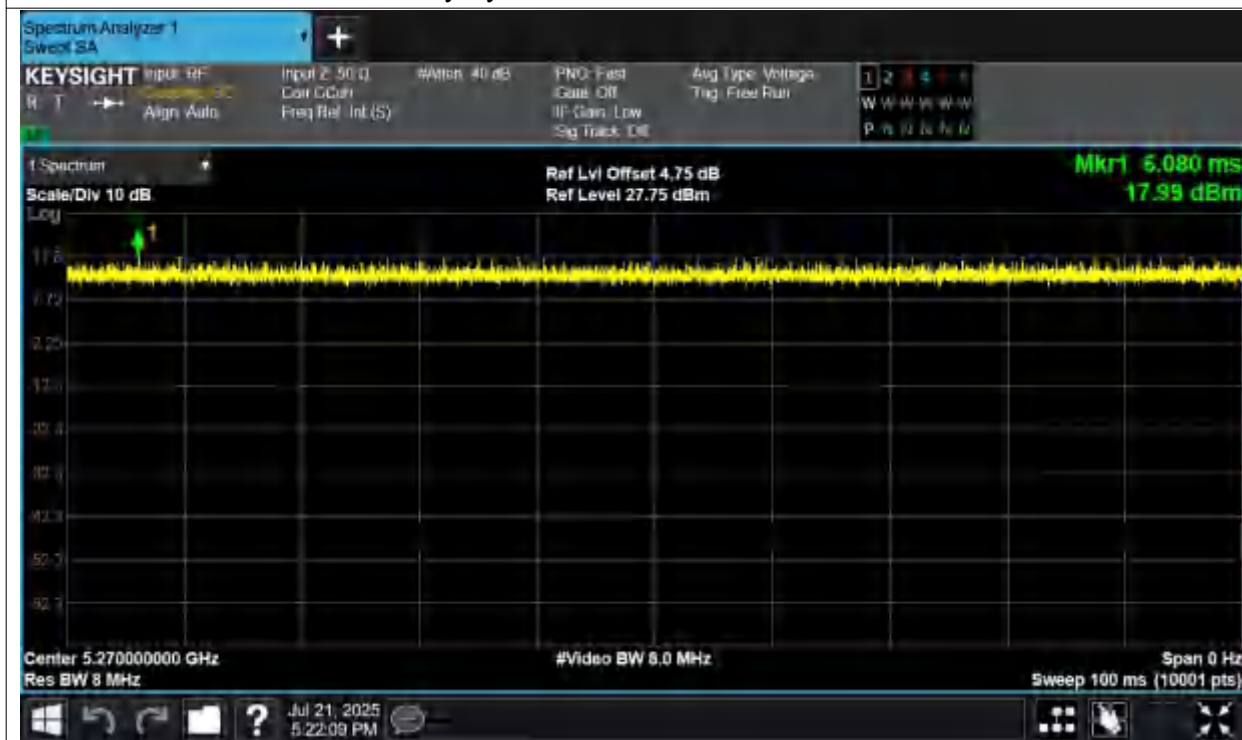
Duty Cycle NVNT n20 5280MHz Ant1



Duty Cycle NVNT n20 5320MHz Ant1



Duty Cycle NVNT n40 5270MHz Ant1

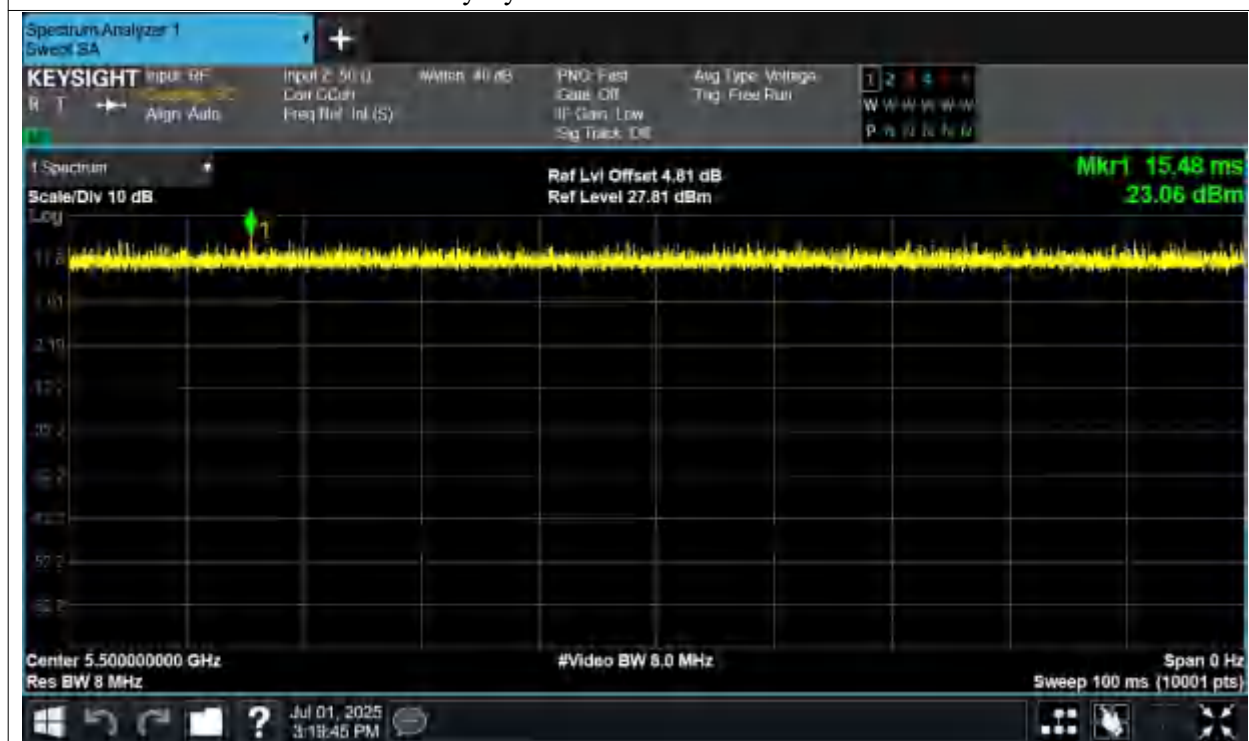


Duty Cycle NVNT n40 5310MHz Ant1

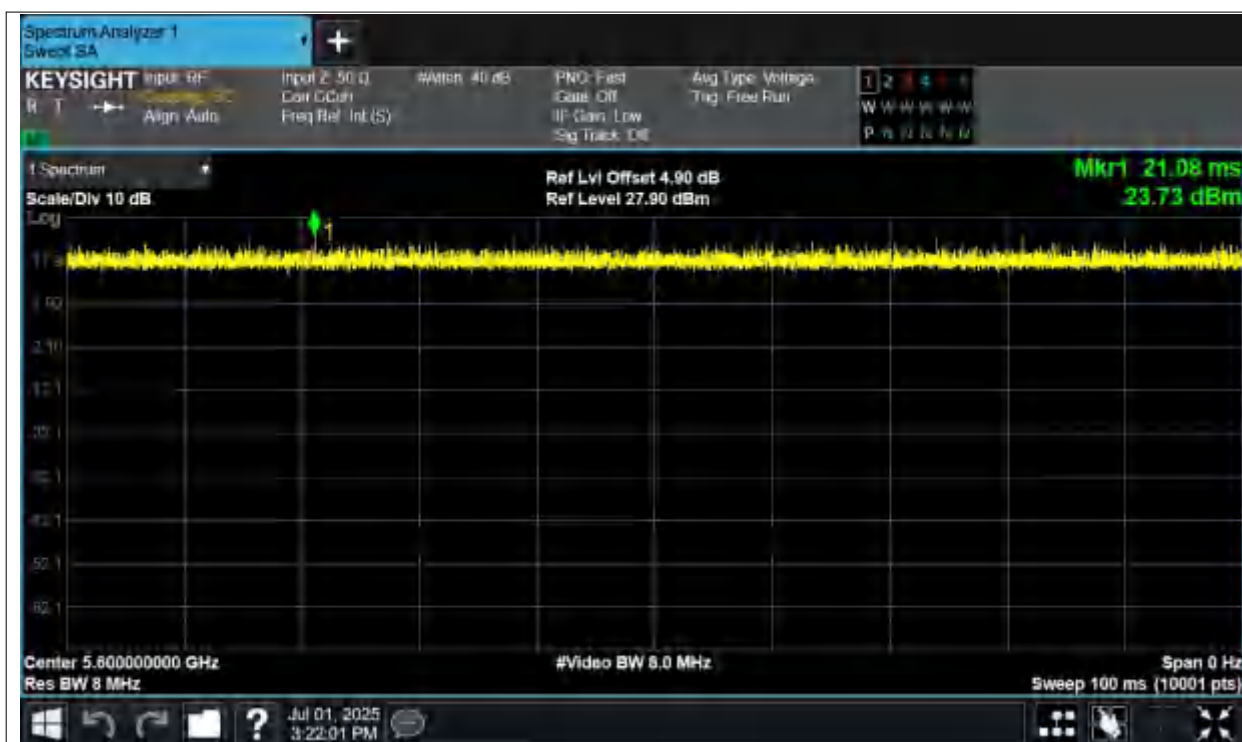


Test Graphs

Duty Cycle NVNT a 5500MHz Ant1



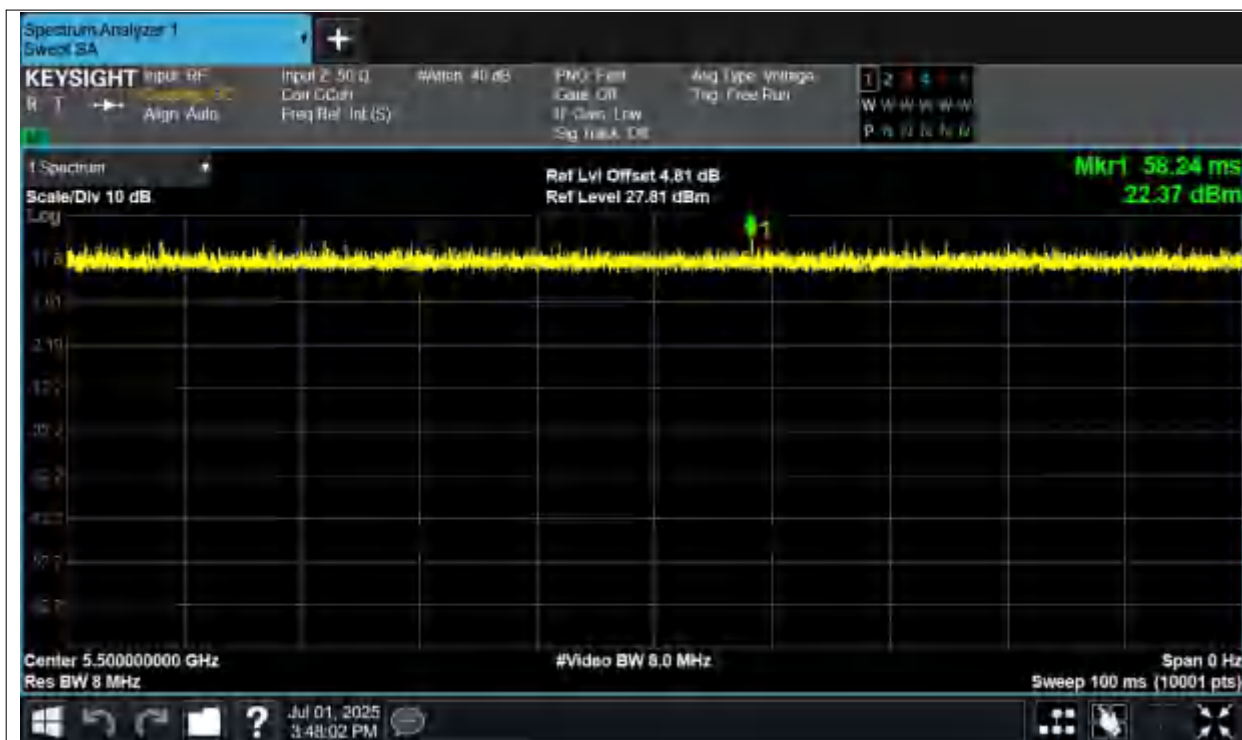
Duty Cycle NVNT a 5600MHz Ant1



Duty Cycle NVNT a 5700MHz Ant1



Duty Cycle NVNT ac20 5500MHz Ant1



Duty Cycle NVNT ac20 5600MHz Ant1



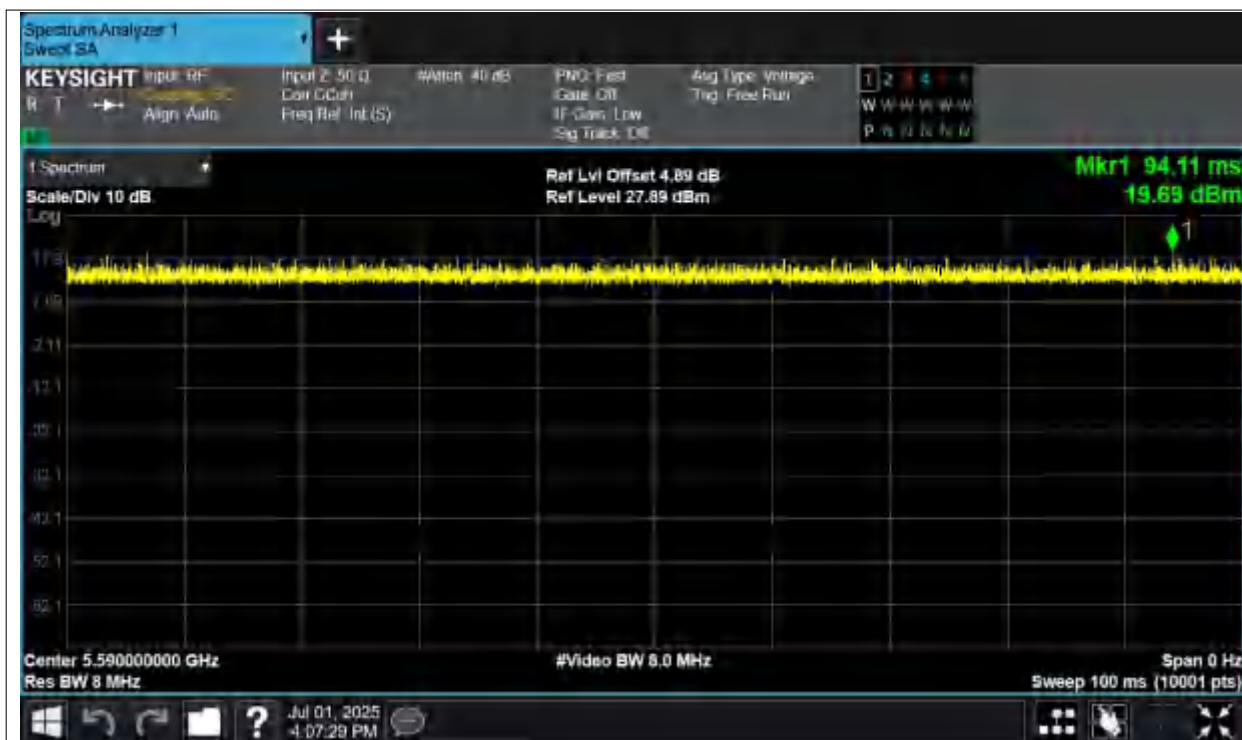
Duty Cycle NVNT ac20 5700MHz Ant1



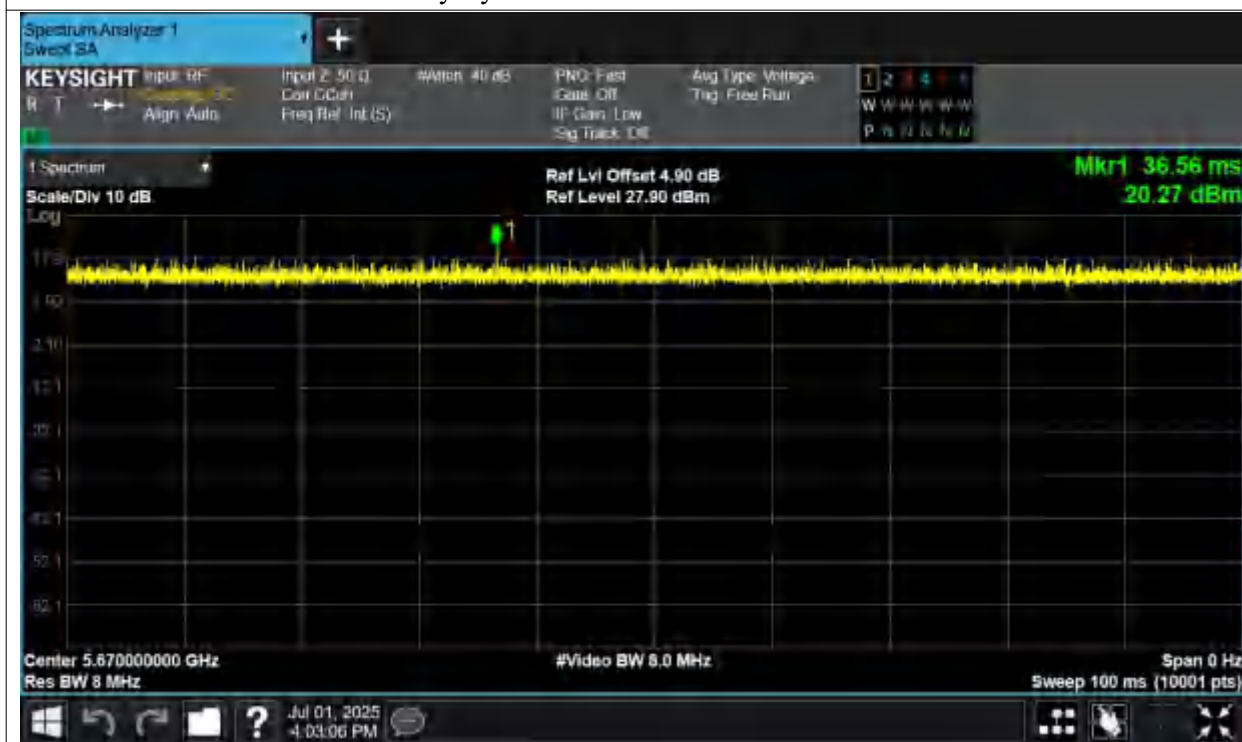
Duty Cycle NVNT ac40 5510MHz Ant1



Duty Cycle NVNT ac40 5590MHz Ant1



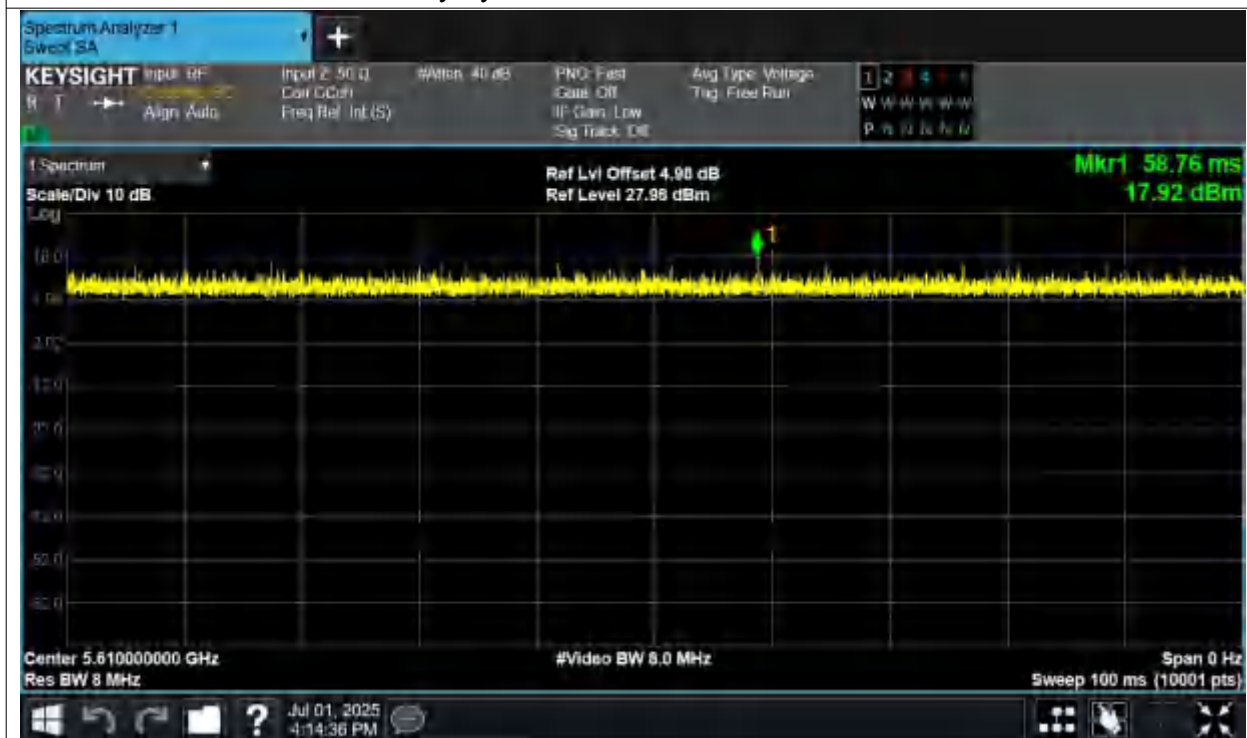
Duty Cycle NVNT ac40 5670MHz Ant1



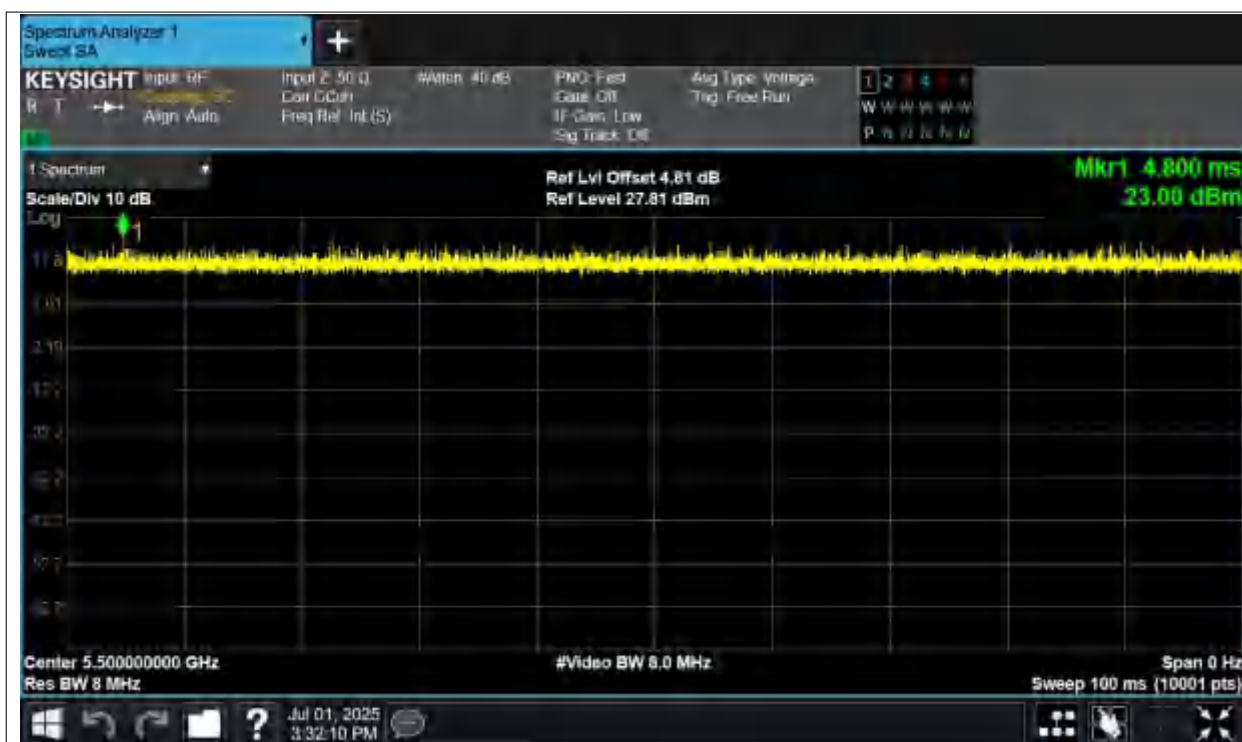
Duty Cycle NVNT ac80 5530MHz Ant1



Duty Cycle NVNT ac80 5610MHz Ant1



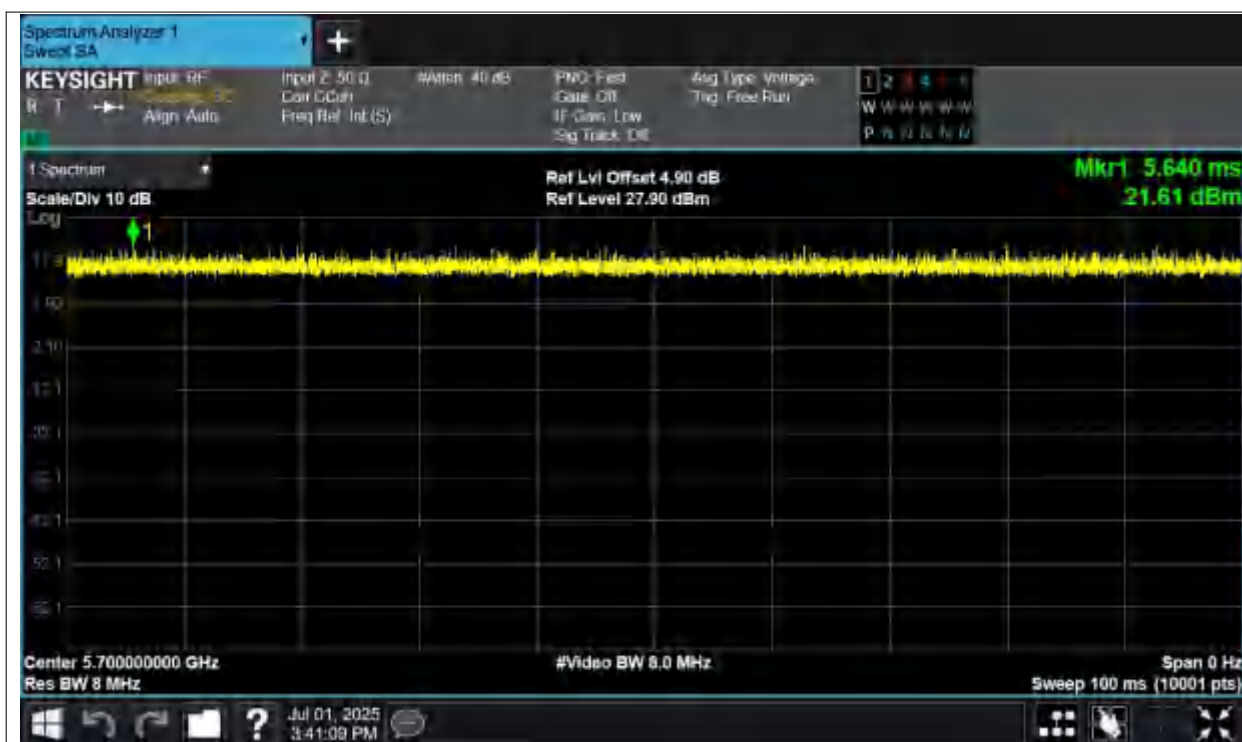
Duty Cycle NVNT n20 5500MHz Ant1



Duty Cycle NVNT n20 5600MHz Ant1



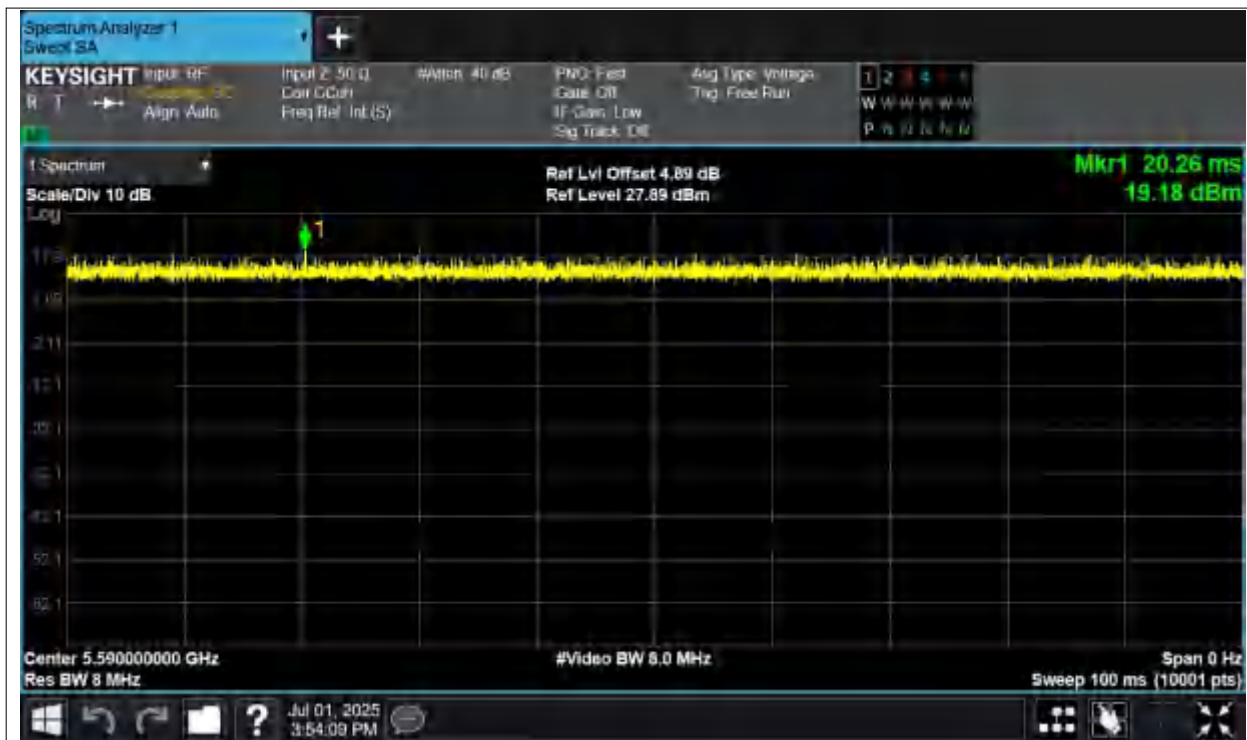
Duty Cycle NVNT n20 5700MHz Ant1



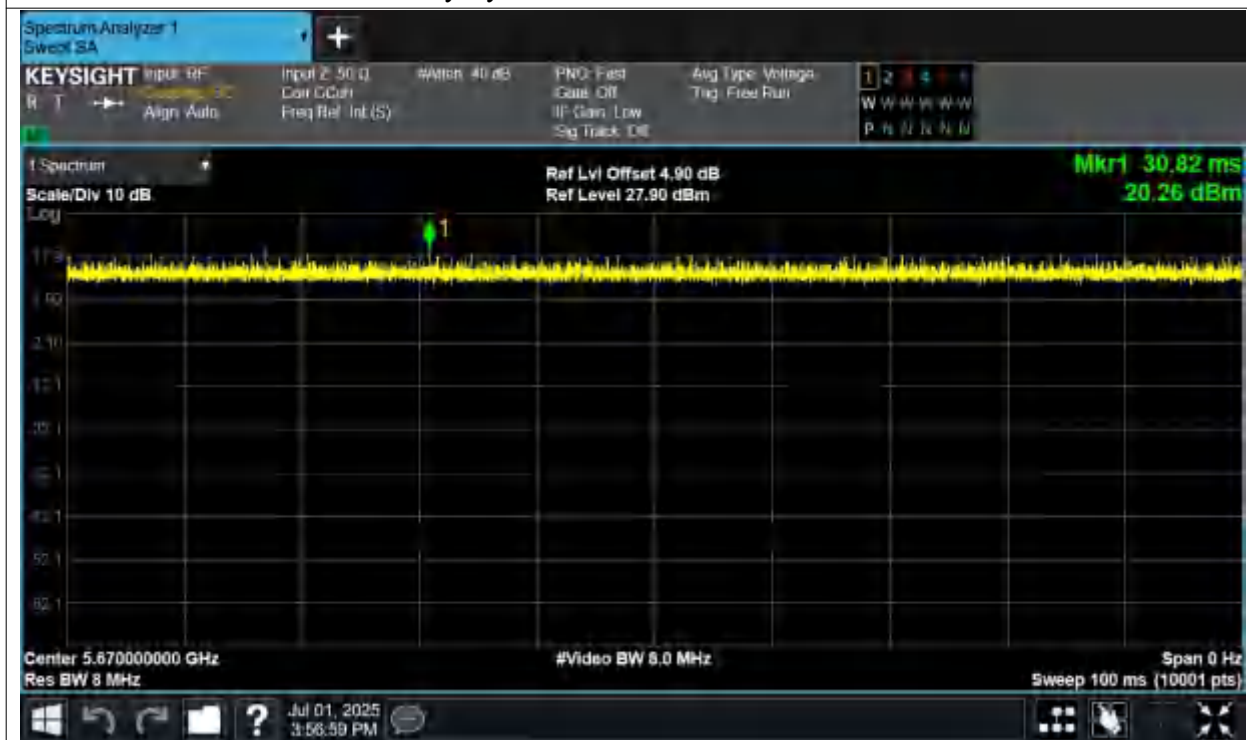
Duty Cycle NVNT n40 5510MHz Ant1



Duty Cycle NVNT n40 5590MHz Ant1



Duty Cycle NVNT n40 5670MHz Ant1





Test Graphs

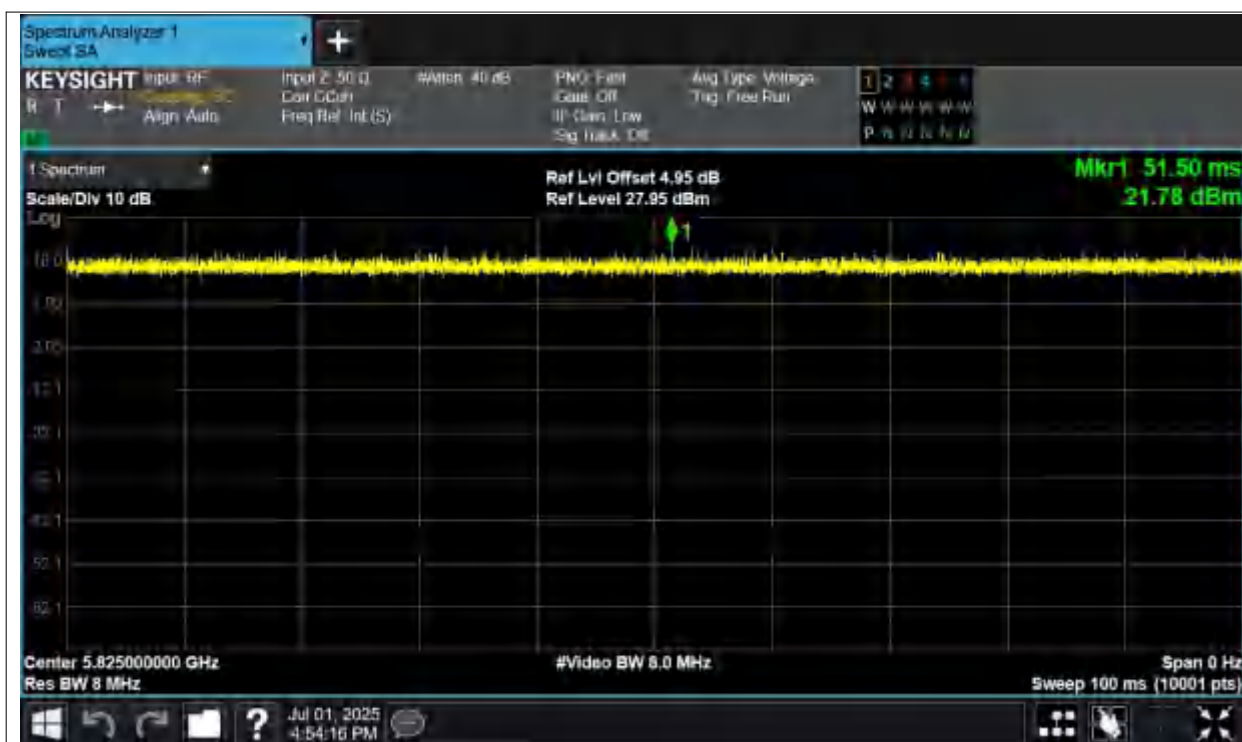
Duty Cycle NVNT a 5745MHz Ant1



Duty Cycle NVNT a 5785MHz Ant1



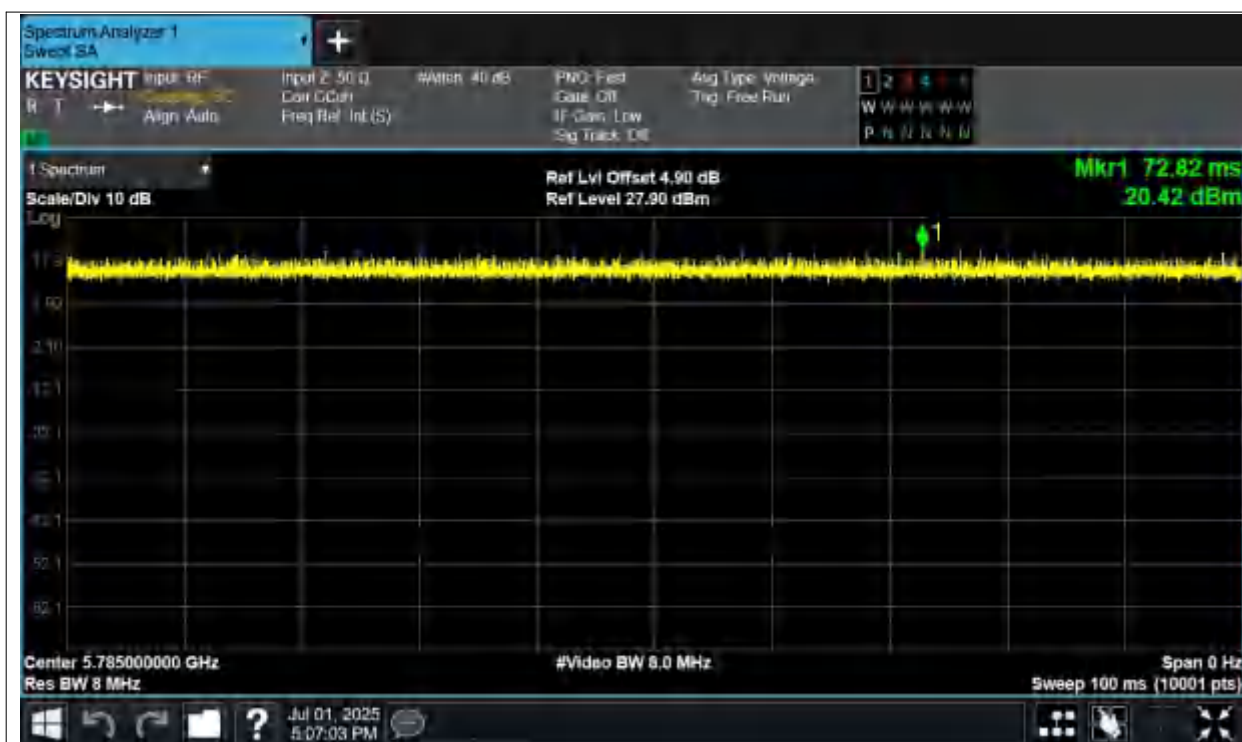
Duty Cycle NVNT a 5825MHz Ant1



Duty Cycle NVNT ac20 5745MHz Ant1



Duty Cycle NVNT ac20 5785MHz Ant1



Duty Cycle NVNT ac20 5825MHz Ant1



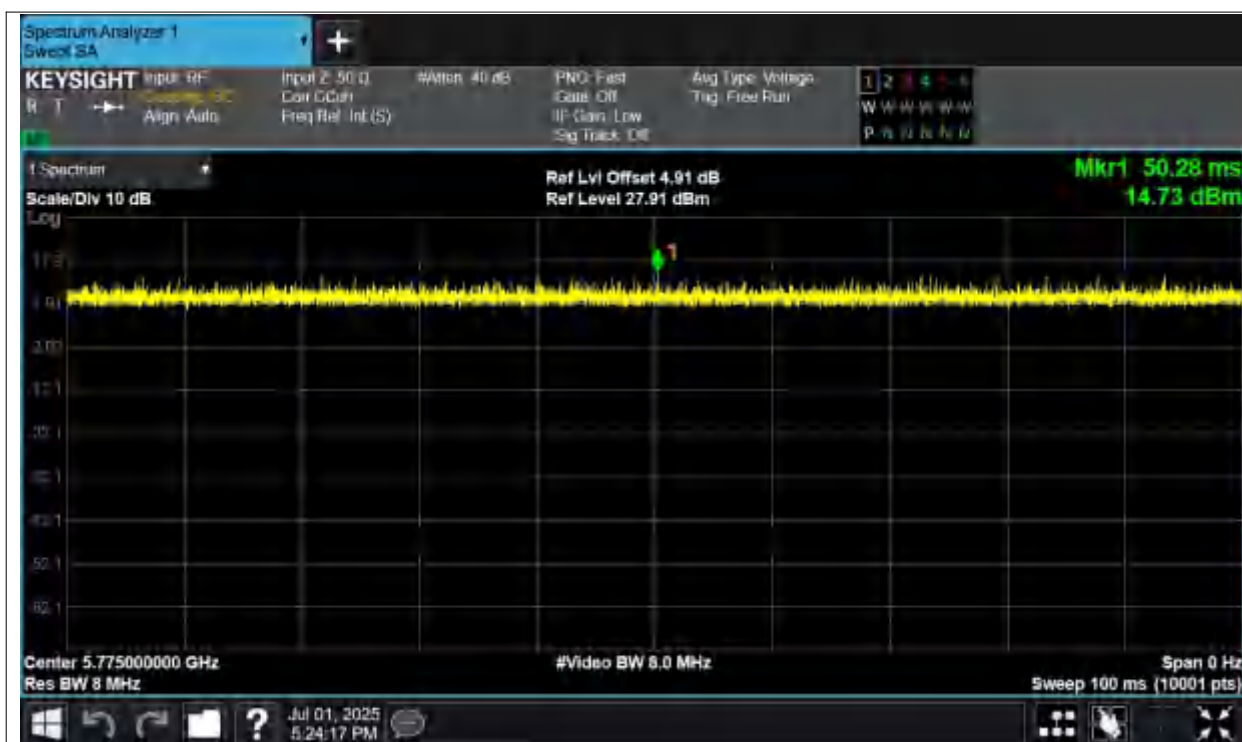
Duty Cycle NVNT ac40 5755MHz Ant1



Duty Cycle NVNT ac40 5795MHz Ant1



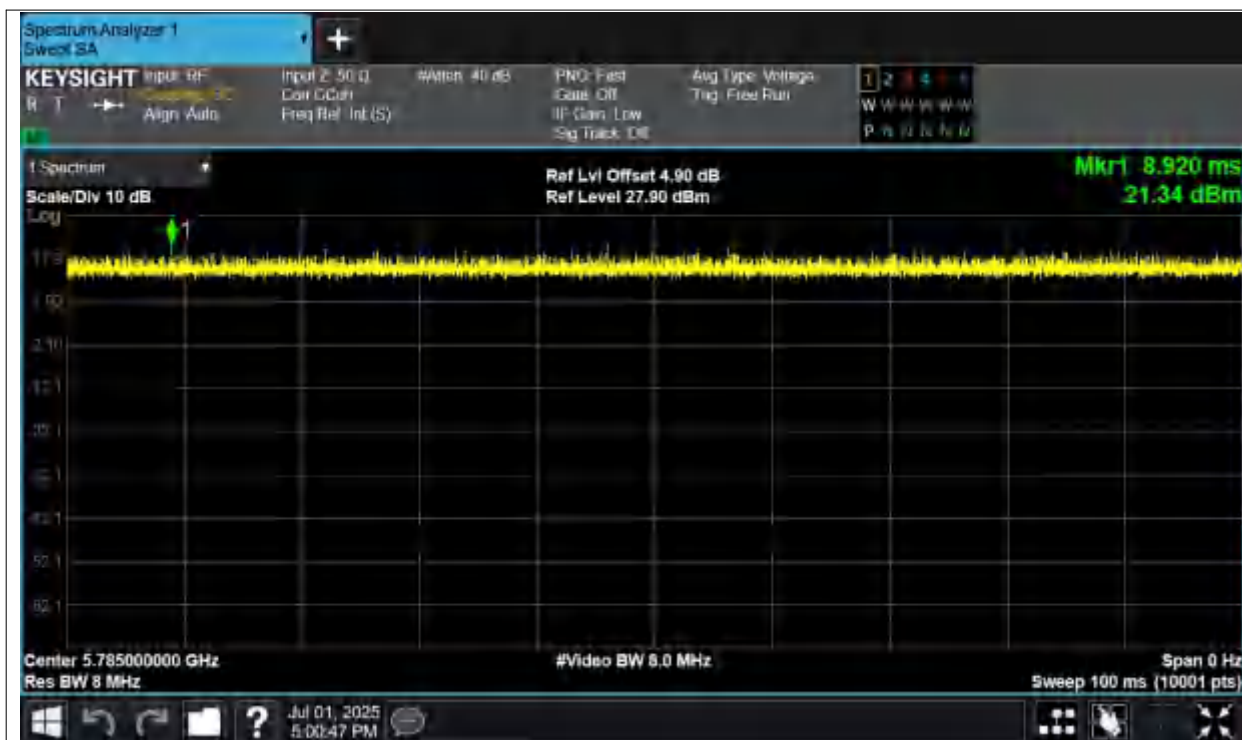
Duty Cycle NVNT ac80 5775MHz Ant1



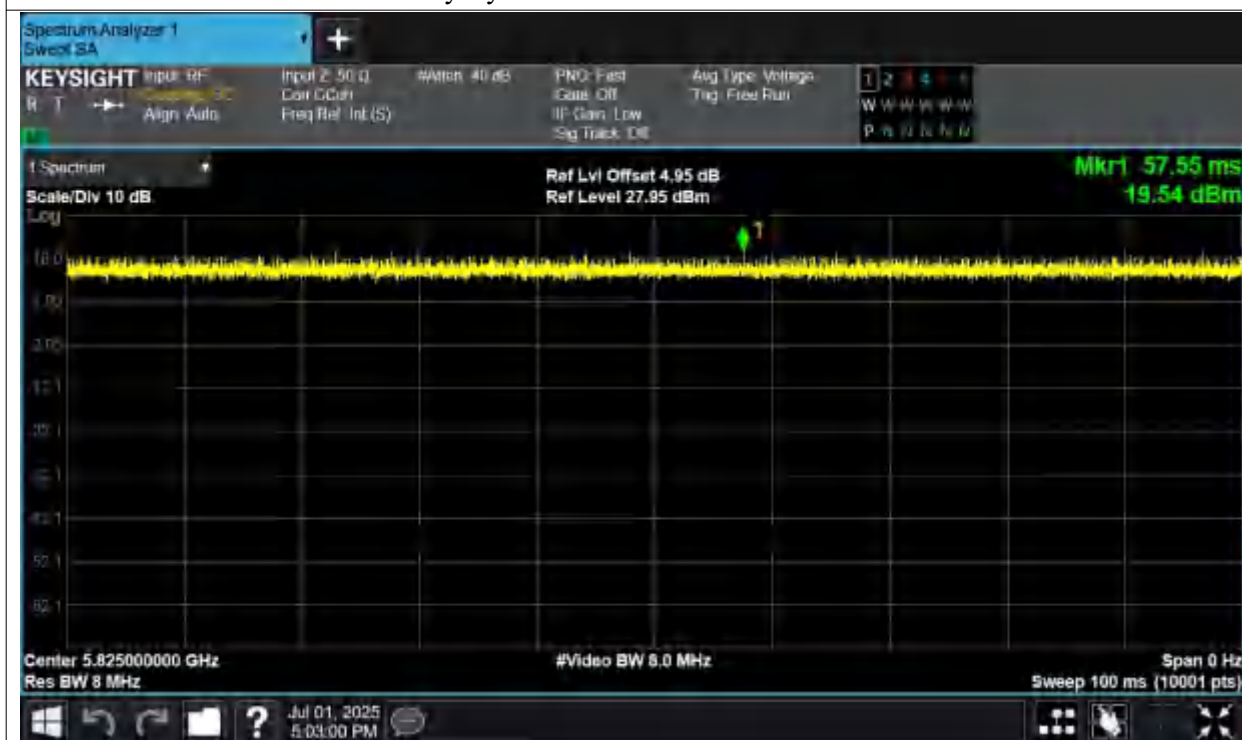
Duty Cycle NVNT n20 5745MHz Ant1



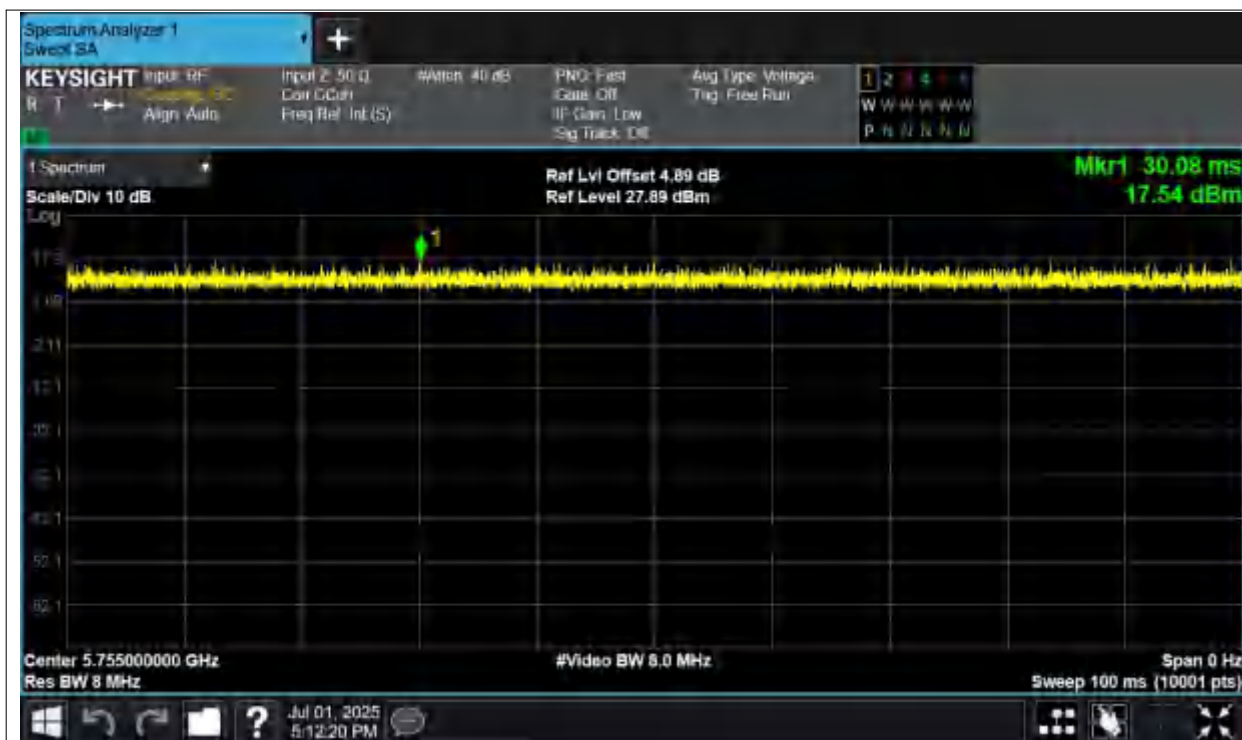
Duty Cycle NVNT n20 5785MHz Ant1



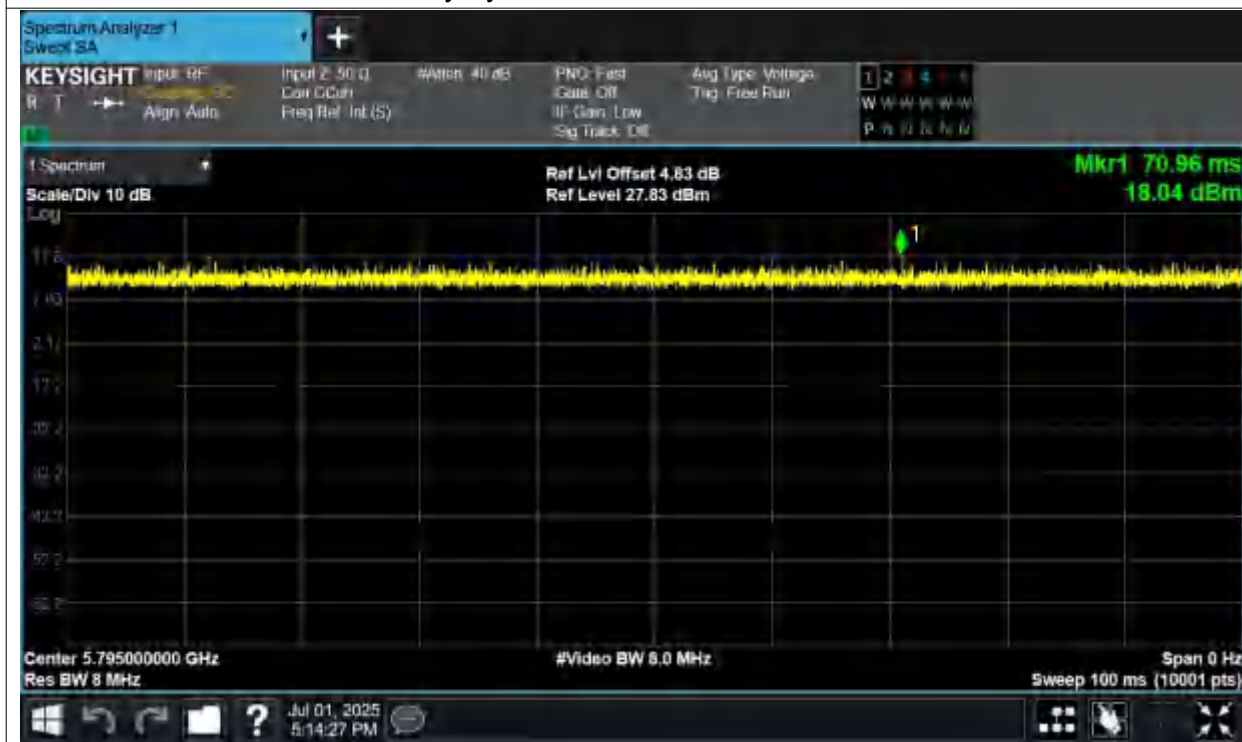
Duty Cycle NVNT n20 5825MHz Ant1



Duty Cycle NVNT n40 5755MHz Ant1



Duty Cycle NVNT n40 5795MHz Ant1





A.2. Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	11.49	0	11.49	24	Pass
NVNT	a	5200	Ant1	11.53	0	11.53	24	Pass
NVNT	a	5240	Ant1	11.86	0	11.86	24	Pass
NVNT	ac20	5180	Ant1	11.42	0	11.42	24	Pass
NVNT	ac20	5200	Ant1	11.3	0	11.3	24	Pass
NVNT	ac20	5240	Ant1	11.95	0	11.95	24	Pass
NVNT	ac40	5190	Ant1	11.32	0	11.32	23	Pass
NVNT	ac40	5230	Ant1	11.7	0	11.7	24	Pass
NVNT	ac80	5210	Ant1	11.26	0	11.26	24	Pass
NVNT	n20	5180	Ant1	11.45	0	11.45	24	Pass
NVNT	n20	5200	Ant1	11.32	0	11.32	24	Pass
NVNT	n20	5240	Ant1	11.71	0	11.71	24	Pass
NVNT	n40	5190	Ant1	11.32	0	11.32	24	Pass
NVNT	n40	5230	Ant1	11.71	0	11.71	24	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	11.79	0	11.79	24	Pass
NVNT	a	5280	Ant1	11.17	0	11.17	24	Pass
NVNT	a	5320	Ant1	12.25	0	12.25	24	Pass
NVNT	ac20	5260	Ant1	11.12	0	11.12	24	Pass
NVNT	ac20	5280	Ant1	11.19	0	11.19	24	Pass
NVNT	ac20	5320	Ant1	12.04	0	12.04	24	Pass
NVNT	ac40	5270	Ant1	11	0	11	24	Pass
NVNT	ac40	5310	Ant1	11.9	0	11.9	24	Pass
NVNT	ac80	5290	Ant1	11.26	0	11.26	24	Pass
NVNT	n20	5260	Ant1	11.15	0	11.15	24	Pass
NVNT	n20	5280	Ant1	11.01	0	11.01	24	Pass
NVNT	n20	5320	Ant1	12.09	0	12.09	24	Pass
NVNT	n40	5270	Ant1	11.05	0	11.05	24	Pass
NVNT	n40	5310	Ant1	12.17	0	12.17	24	Pass



Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant1	12.42	0	12.42	24	Pass
NVNT	a	5600	Ant1	12.19	0	12.19	24	Pass
NVNT	a	5700	Ant1	12.28	0	12.28	24	Pass
NVNT	ac20	5500	Ant1	12.32	0	12.32	24	Pass
NVNT	ac20	5600	Ant1	12.11	0	12.11	24	Pass
NVNT	ac20	5700	Ant1	12	0	12	24	Pass
NVNT	ac40	5510	Ant1	12.64	0	12.64	24	Pass
NVNT	ac40	5590	Ant1	12.08	0	12.08	24	Pass
NVNT	ac40	5670	Ant1	11.55	0	11.55	24	Pass
NVNT	ac80	5530	Ant1	12.65	0	12.65	24	Pass
NVNT	ac80	5610	Ant1	12.08	0	12.08	24	Pass
NVNT	n20	5500	Ant1	12.36	0	12.36	24	Pass
NVNT	n20	5600	Ant1	11.87	0	11.87	24	Pass
NVNT	n20	5700	Ant1	12.01	0	12.01	24	Pass
NVNT	n40	5510	Ant1	12.63	0	12.63	24	Pass
NVNT	n40	5590	Ant1	12.32	0	12.32	24	Pass
NVNT	n40	5670	Ant1	11.56	0	11.56	24	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	12.08	0	12.08	30	Pass
NVNT	a	5785	Ant1	12.68	0	12.68	30	Pass
NVNT	a	5825	Ant1	11.68	0	11.68	30	Pass
NVNT	ac20	5745	Ant1	11.18	0	11.18	30	Pass
NVNT	ac20	5785	Ant1	11.51	0	11.51	30	Pass
NVNT	ac20	5825	Ant1	10.56	0	10.56	30	Pass
NVNT	ac40	5755	Ant1	10.68	0	10.68	30	Pass
NVNT	ac40	5795	Ant1	10.98	0	10.98	30	Pass
NVNT	ac80	5775	Ant1	10.83	0	10.83	30	Pass
NVNT	n20	5745	Ant1	10.97	0	10.97	30	Pass
NVNT	n20	5785	Ant1	11.54	0	11.54	30	Pass
NVNT	n20	5825	Ant1	10.58	0	10.58	30	Pass
NVNT	n40	5755	Ant1	10.7	0	10.7	30	Pass



NVNT	n40	5795	Ant1	10.99	0	10.99	30	Pass
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A.3. Emission Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)
NVNT	a	5180	Ant1	19.93
NVNT	a	5200	Ant1	19.846
NVNT	a	5240	Ant1	20.831
NVNT	ac20	5180	Ant1	20.174
NVNT	ac20	5200	Ant1	20.267
NVNT	ac20	5240	Ant1	19.989
NVNT	ac40	5190	Ant1	40.233
NVNT	ac40	5230	Ant1	40.134
NVNT	ac80	5210	Ant1	93.164
NVNT	n20	5180	Ant1	20.302
NVNT	n20	5200	Ant1	20.11
NVNT	n20	5240	Ant1	20.071
NVNT	n40	5190	Ant1	40.31
NVNT	n40	5230	Ant1	40.322

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.387
NVNT	a	5200	Ant1	16.494
NVNT	a	5240	Ant1	16.45
NVNT	ac20	5180	Ant1	17.577
NVNT	ac20	5200	Ant1	17.55
NVNT	ac20	5240	Ant1	17.567
NVNT	ac40	5190	Ant1	35.955
NVNT	ac40	5230	Ant1	35.999
NVNT	ac80	5210	Ant1	75.243
NVNT	n20	5180	Ant1	17.567
NVNT	n20	5200	Ant1	17.591
NVNT	n20	5240	Ant1	17.584
NVNT	n40	5190	Ant1	35.933
NVNT	n40	5230	Ant1	36.012



Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)
NVNT	a	5260	Ant1	19.875
NVNT	a	5280	Ant1	20.017
NVNT	a	5320	Ant1	22.352
NVNT	ac20	5260	Ant1	20.044
NVNT	ac20	5280	Ant1	19.959
NVNT	ac20	5320	Ant1	20.126
NVNT	ac40	5270	Ant1	40.861
NVNT	ac40	5310	Ant1	40.226
NVNT	ac80	5290	Ant1	80.45
NVNT	n20	5260	Ant1	20.291
NVNT	n20	5280	Ant1	20.056
NVNT	n20	5320	Ant1	19.927
NVNT	n40	5270	Ant1	40.23
NVNT	n40	5310	Ant1	40.013

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5260	Ant1	16.434
NVNT	a	5280	Ant1	16.441
NVNT	a	5320	Ant1	16.432
NVNT	ac20	5260	Ant1	17.556
NVNT	ac20	5280	Ant1	17.566
NVNT	ac20	5320	Ant1	17.539
NVNT	ac40	5270	Ant1	35.94
NVNT	ac40	5310	Ant1	35.979
NVNT	ac80	5290	Ant1	75.203
NVNT	n20	5260	Ant1	17.568
NVNT	n20	5280	Ant1	17.542
NVNT	n20	5320	Ant1	17.565
NVNT	n40	5270	Ant1	35.972
NVNT	n40	5310	Ant1	35.984



REPORT No.: SZ25090313W03

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)
NVNT	a	5500	Ant1	20.083
NVNT	a	5600	Ant1	20.098
NVNT	a	5700	Ant1	19.801
NVNT	ac20	5500	Ant1	20.297
NVNT	ac20	5600	Ant1	20.181
NVNT	ac20	5700	Ant1	20.262
NVNT	ac40	5510	Ant1	40.067
NVNT	ac40	5590	Ant1	40.177
NVNT	ac40	5670	Ant1	40.004
NVNT	ac80	5530	Ant1	80.373
NVNT	ac80	5610	Ant1	80.46
NVNT	n20	5500	Ant1	20.368
NVNT	n20	5600	Ant1	20.248
NVNT	n20	5700	Ant1	20.324
NVNT	n40	5510	Ant1	40.166
NVNT	n40	5590	Ant1	40.28
NVNT	n40	5670	Ant1	39.704



Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5500	Ant1	16.392
NVNT	a	5600	Ant1	16.386
NVNT	a	5700	Ant1	16.434
NVNT	ac20	5500	Ant1	17.547
NVNT	ac20	5600	Ant1	17.529
NVNT	ac20	5700	Ant1	17.569
NVNT	ac40	5510	Ant1	35.952
NVNT	ac40	5590	Ant1	35.972
NVNT	ac40	5670	Ant1	35.925
NVNT	ac80	5530	Ant1	75.122
NVNT	ac80	5610	Ant1	75.246
NVNT	n20	5500	Ant1	17.551
NVNT	n20	5600	Ant1	17.555
NVNT	n20	5700	Ant1	17.563
NVNT	n40	5510	Ant1	35.948
NVNT	n40	5590	Ant1	35.977
NVNT	n40	5670	Ant1	35.95

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	limit (MHz)	Verdic
NVNT	a	5745	Ant1	16.354	0.5	Pass
NVNT	a	5785	Ant1	16.346	0.5	Pass
NVNT	a	5825	Ant1	16.359	0.5	Pass
NVNT	ac20	5745	Ant1	17.571	0.5	Pass
NVNT	ac20	5785	Ant1	17.573	0.5	Pass
NVNT	ac20	5825	Ant1	17.555	0.5	Pass
NVNT	ac40	5755	Ant1	35.841	0.5	Pass
NVNT	ac40	5795	Ant1	35.927	0.5	Pass
NVNT	ac80	5775	Ant1	75.894	0.5	Pass
NVNT	n20	5745	Ant1	17.562	0.5	Pass
NVNT	n20	5785	Ant1	17.57	0.5	Pass
NVNT	n20	5825	Ant1	17.573	0.5	Pass
NVNT	n40	5755	Ant1	36.02	0.5	Pass
NVNT	n40	5795	Ant1	35.778	0.5	Pass



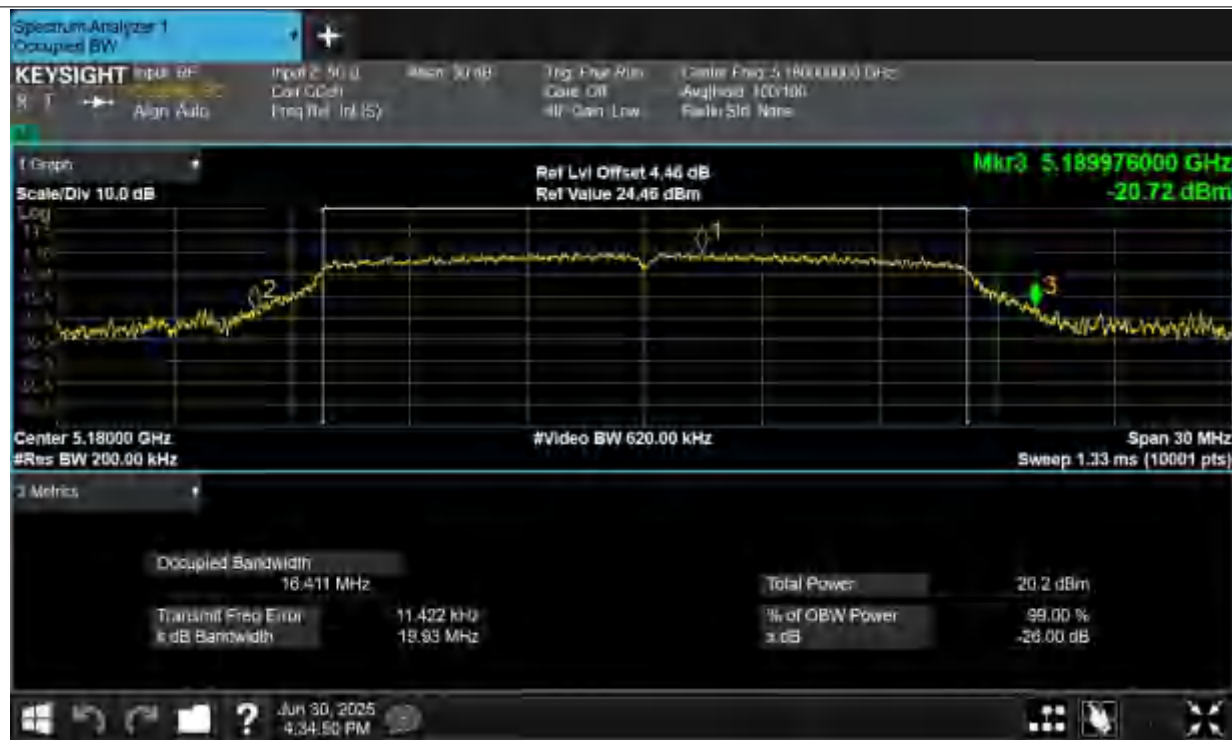
REPORT No.: SZ25090313W03

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant1	16.426
NVNT	a	5785	Ant1	16.435
NVNT	a	5825	Ant1	16.482
NVNT	ac20	5745	Ant1	17.568
NVNT	ac20	5785	Ant1	17.544
NVNT	ac20	5825	Ant1	17.587
NVNT	ac40	5755	Ant1	35.947
NVNT	ac40	5795	Ant1	35.936
NVNT	ac80	5775	Ant1	75.095
NVNT	n20	5745	Ant1	17.56
NVNT	n20	5785	Ant1	17.575
NVNT	n20	5825	Ant1	17.59
NVNT	n40	5755	Ant1	35.928
NVNT	n40	5795	Ant1	35.913



Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1



-26dB Bandwidth NVNT a 5200MHz Ant1



-26dB Bandwidth NVNT a 5240MHz Ant1



-26dB Bandwidth NVNT ac20 5180MHz Ant1



-26dB Bandwidth NVNT ac20 5200MHz Ant1



-26dB Bandwidth NVNT ac20 5240MHz Ant1



-26dB Bandwidth NVNT ac40 5190MHz Ant1





-26dB Bandwidth NVNT n20 5180MHz Ant1



-26dB Bandwidth NVNT n20 5200MHz Ant1



-26dB Bandwidth NVNT n20 5240MHz Ant1



-26dB Bandwidth NVNT n40 5190MHz Ant1



-26dB Bandwidth NVNT n40 5230MHz Ant1





Test Graphs

OBW NVNT a 5180MHz Ant1



OBW NVNT a 5200MHz Ant1



OBW NVNT a 5240MHz Ant1



OBW NVNT ac20 5180MHz Ant1



OBW NVNT ac20 5200MHz Ant1



OBW NVNT ac20 5240MHz Ant1



OBW NVNT ac40 5190MHz Ant1



OBW NVNT ac40 5230MHz Ant1



OBW NVNT ac80 5210MHz Ant1



OBW NVNT n20 5180MHz Ant1



OBW NVNT n20 5200MHz Ant1



OBW NVNT n20 5240MHz Ant1



OBW NVNT n40 5190MHz Ant1



OBW NVNT n40 5230MHz Ant1





Test Graphs

OBW NVNT a 5260MHz Ant1



OBW NVNT a 5280MHz Ant1



OBW NVNT a 5320MHz Ant1



OBW NVNT ac20 5260MHz Ant1



OBW NVNT ac20 5280MHz Ant1



OBW NVNT ac20 5320MHz Ant1



OBW NVNT ac40 5270MHz Ant1



OBW NVNT ac40 5310MHz Ant1



OBW NVNT ac80 5290MHz Ant1



OBW NVNT n20 5260MHz Ant1



OBW NVNT n20 5280MHz Ant1



OBW NVNT n20 5320MHz Ant1



OBW NVNT n40 5270MHz Ant1



OBW NVNT n40 5310MHz Ant1





Test Graphs

-26dB Bandwidth NVNT a 5260MHz Ant1





-26dB Bandwidth NVNT ac20 5260MHz Ant1



-26dB Bandwidth NVNT ac20 5280MHz Ant1



-26dB Bandwidth NVNT ac20 5320MHz Ant1



-26dB Bandwidth NVNT ac40 5270MHz Ant1



-26dB Bandwidth NVNT ac40 5310MHz Ant1



-26dB Bandwidth NVNT ac80 5290MHz Ant1



-26dB Bandwidth NVNT n20 5260MHz Ant1



-26dB Bandwidth NVNT n20 5280MHz Ant1







Test Graphs

-26dB Bandwidth NVNT a 5500MHz Ant1



-26dB Bandwidth NVNT a 5600MHz Ant1



-26dB Bandwidth NVNT a 5700MHz Ant1



-26dB Bandwidth NVNT ac20 5500MHz Ant1



-26dB Bandwidth NVNT ac20 5600MHz Ant1



-26dB Bandwidth NVNT ac20 5700MHz Ant1



-26dB Bandwidth NVNT ac40 5510MHz Ant1



-26dB Bandwidth NVNT ac40 5590MHz Ant1



-26dB Bandwidth NVNT ac40 5670MHz Ant1





-26dB Bandwidth NVNT n20 5500MHz Ant1



-26dB Bandwidth NVNT n20 5600MHz Ant1



-26dB Bandwidth NVNT n20 5700MHz Ant1



-26dB Bandwidth NVNT n40 5510MHz Ant1



-26dB Bandwidth NVNT n40 5590MHz Ant1



-26dB Bandwidth NVNT n40 5670MHz Ant1



Test Graphs

OBW NVNT a 5500MHz Ant1



OBW NVNT a 5600MHz Ant1



OBW NVNT a 5700MHz Ant1



OBW NVNT ac20 5500MHz Ant1



OBW NVNT ac20 5600MHz Ant1



OBW NVNT ac20 5700MHz Ant1



OBW NVNT ac40 5510MHz Ant1



OBW NVNT ac40 5590MHz Ant1



OBW NVNT ac40 5670MHz Ant1



OBW NVNT ac80 5530MHz Ant1



OBW NVNT ac80 5610MHz Ant1



OBW NVNT n20 5500MHz Ant1



OBW NVNT n20 5600MHz Ant1



OBW NVNT n20 5700MHz Ant1



OBW NVNT n40 5510MHz Ant1



OBW NVNT n40 5590MHz Ant1



OBW NVNT n40 5670MHz Ant1



Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant1



-6dB Bandwidth NVNT a 5785MHz Ant1



-6dB Bandwidth NVNT a 5825MHz Ant1



-6dB Bandwidth NVNT ac20 5745MHz Ant1



-6dB Bandwidth NVNT ac20 5785MHz Ant1



-6dB Bandwidth NVNT ac20 5825MHz Ant1



-6dB Bandwidth NVNT ac40 5755MHz Ant1



-6dB Bandwidth NVNT ac40 5795MHz Ant1



-6dB Bandwidth NVNT ac80 5775MHz Ant1



-6dB Bandwidth NVNT n20 5745MHz Ant1



-6dB Bandwidth NVNT n20 5785MHz Ant1



-6dB Bandwidth NVNT n20 5825MHz Ant1



-6dB Bandwidth NVNT n40 5755MHz Ant1



-6dB Bandwidth NVNT n40 5795MHz Ant1





Test Graphs

OBW NVNT a 5745MHz Ant1



OBW NVNT a 5785MHz Ant1



OBW NVNT a 5825MHz Ant1



OBW NVNT ac20 5745MHz Ant1



OBW NVNT ac20 5785MHz Ant1



OBW NVNT ac20 5825MHz Ant1



OBW NVNT ac40 5755MHz Ant1



OBW NVNT ac40 5795MHz Ant1



OBW NVNT ac80 5775MHz Ant1



OBW NVNT n20 5745MHz Ant1



OBW NVNT n20 5785MHz Ant1



OBW NVNT n20 5825MHz Ant1



OBW NVNT n40 5755MHz Ant1



OBW NVNT n40 5795MHz Ant1





A.4. Power Spectral Density

Condition	Mode	Frequency (MHz)	Antenna	Max PSD(dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant1	5.142	0	5.142	11	Pass
NVNT	a	5200	Ant1	5.194	0	5.194	11	Pass
NVNT	a	5240	Ant1	4.842	0	4.842	11	Pass
NVNT	ac20	5180	Ant1	4.025	0	4.025	11	Pass
NVNT	ac20	5200	Ant1	4.206	0	4.206	11	Pass
NVNT	ac20	5240	Ant1	3.427	0	3.427	11	Pass
NVNT	ac40	5190	Ant1	1.547	0	1.547	11	Pass
NVNT	ac40	5230	Ant1	1.191	0	1.191	11	Pass
NVNT	ac80	5210	Ant1	-1.439	0	-1.439	11	Pass
NVNT	n20	5180	Ant1	3.814	0	3.814	11	Pass
NVNT	n20	5200	Ant1	3.662	0	3.662	11	Pass
NVNT	n20	5240	Ant1	3.545	0	3.545	11	Pass
NVNT	n40	5190	Ant1	1.474	0	1.474	11	Pass
NVNT	n40	5230	Ant1	1.478	0	1.478	11	Pass

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5260	Ant1	5.365	0	5.365	11	Pass
NVNT	a	5280	Ant1	5.262	0	5.262	11	Pass
NVNT	a	5320	Ant1	5.195	0	5.195	11	Pass
NVNT	ac20	5260	Ant1	4.207	0	4.207	11	Pass
NVNT	ac20	5280	Ant1	4.373	0	4.373	11	Pass
NVNT	ac20	5320	Ant1	3.917	0	3.917	11	Pass
NVNT	ac40	5270	Ant1	1.706	0	1.706	11	Pass
NVNT	ac40	5310	Ant1	1.237	0	1.237	11	Pass
NVNT	ac80	5290	Ant1	-1.384	0	-1.384	11	Pass
NVNT	n20	5260	Ant1	4.159	0	4.159	11	Pass
NVNT	n20	5280	Ant1	4.015	0	4.015	11	Pass
NVNT	n20	5320	Ant1	4.29	0	4.29	11	Pass
NVNT	n40	5270	Ant1	1.647	0	1.647	11	Pass
NVNT	n40	5310	Ant1	1.352	0	1.352	11	Pass



Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5500	Ant1	3.491	0	3.491	11	Pass
NVNT	a	5600	Ant1	3.637	0	3.637	11	Pass
NVNT	a	5700	Ant1	2.759	0	2.759	11	Pass
NVNT	ac20	5500	Ant1	3.236	0	3.236	11	Pass
NVNT	ac20	5600	Ant1	3.116	0	3.116	11	Pass
NVNT	ac20	5700	Ant1	2.047	0	2.047	11	Pass
NVNT	ac40	5510	Ant1	1.047	0	1.047	11	Pass
NVNT	ac40	5590	Ant1	0.772	0	0.772	11	Pass
NVNT	ac40	5670	Ant1	0.691	0	0.691	11	Pass
NVNT	ac80	5530	Ant1	-1.894	0	-1.894	11	Pass
NVNT	ac80	5610	Ant1	-2.447	0	-2.447	11	Pass
NVNT	n20	5500	Ant1	3.13	0	3.13	11	Pass
NVNT	n20	5600	Ant1	2.943	0	2.943	11	Pass
NVNT	n20	5700	Ant1	2.346	0	2.346	11	Pass
NVNT	n40	5510	Ant1	1.411	0	1.411	11	Pass
NVNT	n40	5590	Ant1	1.181	0	1.181	11	Pass
NVNT	n40	5670	Ant1	0.662	0	0.662	11	Pass



Condition	Mode	Frequency (MHz)	Antenna	RBW (KHz)	Measured Factor (dB)	Duty Factor (dB)	Conducted PSD (dBm/470KHz)	Total PSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
NVNT	a	5745	Ant1	470	0.27	0	-0.538	-0.268	30	Pass
NVNT	a	5785	Ant1	470	0.27	0	-0.537	-0.267	30	Pass
NVNT	a	5825	Ant1	470	0.27	0	-1.106	-0.836	30	Pass
NVNT	ac20	5745	Ant1	470	0.27	0	-1.547	-1.277	30	Pass
NVNT	ac20	5785	Ant1	470	0.27	0	-1.737	-1.467	30	Pass
NVNT	ac20	5825	Ant1	470	0.27	0	-2.369	-2.099	30	Pass
NVNT	ac40	5755	Ant1	470	0.27	0	-3.665	-3.395	30	Pass
NVNT	ac40	5795	Ant1	470	0.27	0	-4.245	-3.975	30	Pass
NVNT	ac80	5775	Ant1	470	0.27	0	-7.518	-7.248	30	Pass
NVNT	n20	5745	Ant1	470	0.27	0	-1.467	-1.197	30	Pass
NVNT	n20	5785	Ant1	470	0.27	0	-2.072	-1.802	30	Pass
NVNT	n20	5825	Ant1	470	0.27	0	-1.983	-1.713	30	Pass
NVNT	n40	5755	Ant1	470	0.27	0	-3.503	-3.233	30	Pass
NVNT	n40	5795	Ant1	470	0.27	0	-4.268	-3.998	30	Pass



Test Graphs

PSD NVNT a 5180MHz Ant1



PSD NVNT a 5200MHz Ant1



PSD NVNT a 5240MHz Ant1



PSD NVNT ac20 5180MHz Ant1



PSD NVNT ac20 5200MHz Ant1



PSD NVNT ac20 5240MHz Ant1



PSD NVNT ac40 5190MHz Ant1



PSD NVNT ac40 5230MHz Ant1



PSD NVNT ac80 5210MHz Ant1



PSD NVNT n20 5180MHz Ant1



PSD NVNT n20 5200MHz Ant1



PSD NVNT n20 5240MHz Ant1



PSD NVNT n40 5190MHz Ant1



PSD NVNT n40 5230MHz Ant1





Test Graphs

PSD NVNT a 5260MHz Ant1



PSD NVNT a 5280MHz Ant1



PSD NVNT a 5320MHz Ant1



PSD NVNT ac20 5320MHz Ant1



PSD NVNT ac40 5270MHz Ant1



PSD NVNT ac40 5310MHz Ant1



PSD NVNT ac80 5290MHz Ant1



PSD NVNT n20 5260MHz Ant1



PSD NVNT n20 5280MHz Ant1



PSD NVNT n20 5320MHz Ant1



PSD NVNT n40 5270MHz Ant1



PSD NVNT n40 5310MHz Ant1





Test Graphs

PSD NVNT a 5500MHz Ant1



PSD NVNT a 5600MHz Ant1



PSD NVNT a 5700MHz Ant1



PSD NVNT ac20 5500MHz Ant1



PSD NVNT ac20 5600MHz Ant1



PSD NVNT ac20 5700MHz Ant1



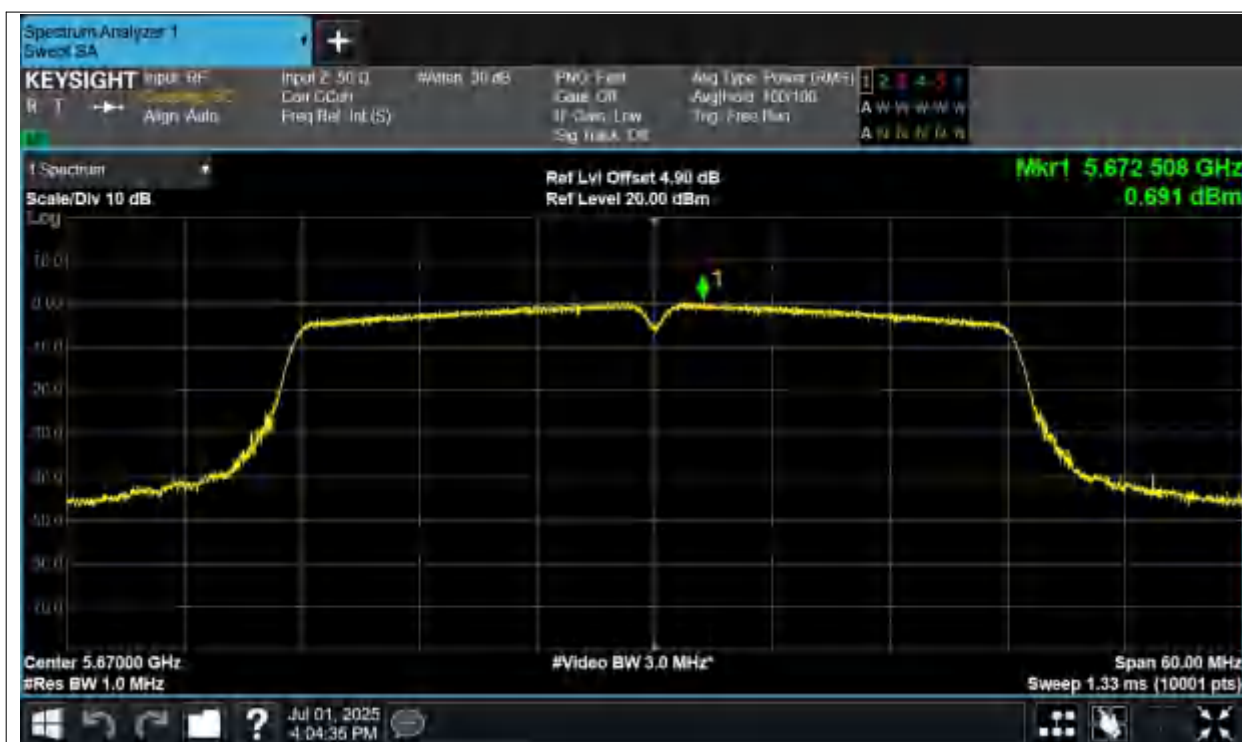
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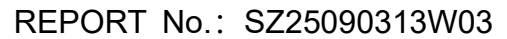
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PSD NVNT ac80 5530MHz Ant1



PSD NVNT ac80 5610MHz Ant1

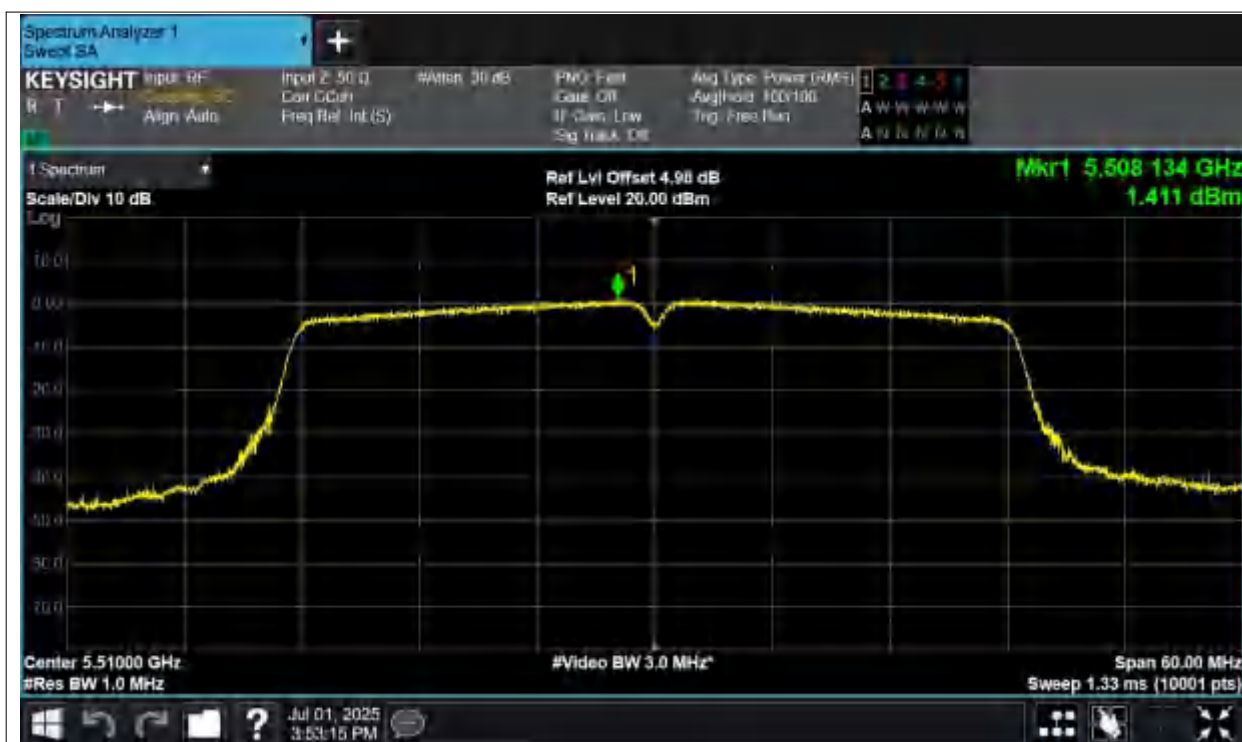




PSD NVNT n20 5700MHz Ant1



PSD NVNT n40 5510MHz Ant1







Test Graphs

PSD NVNT a 5745MHz Ant1



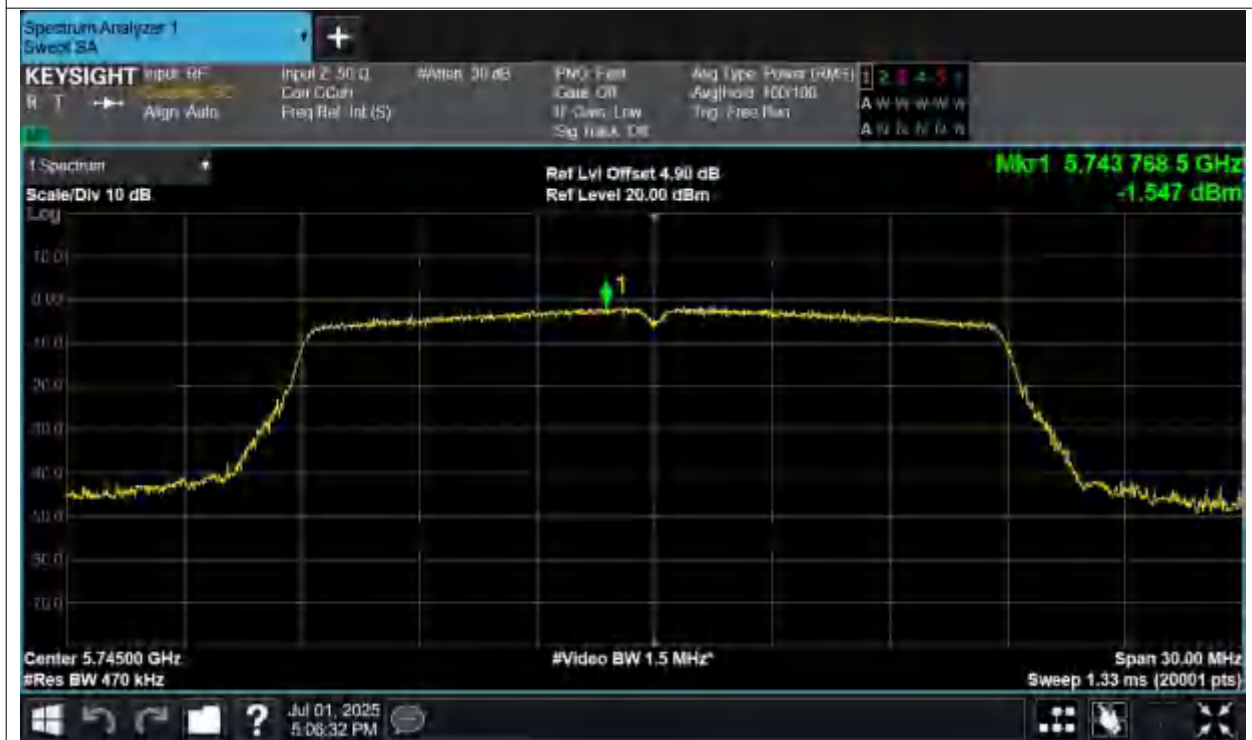
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PSD NVNT a 5825MHz Ant1



PSD NVNT ac20 5745MHz Ant1



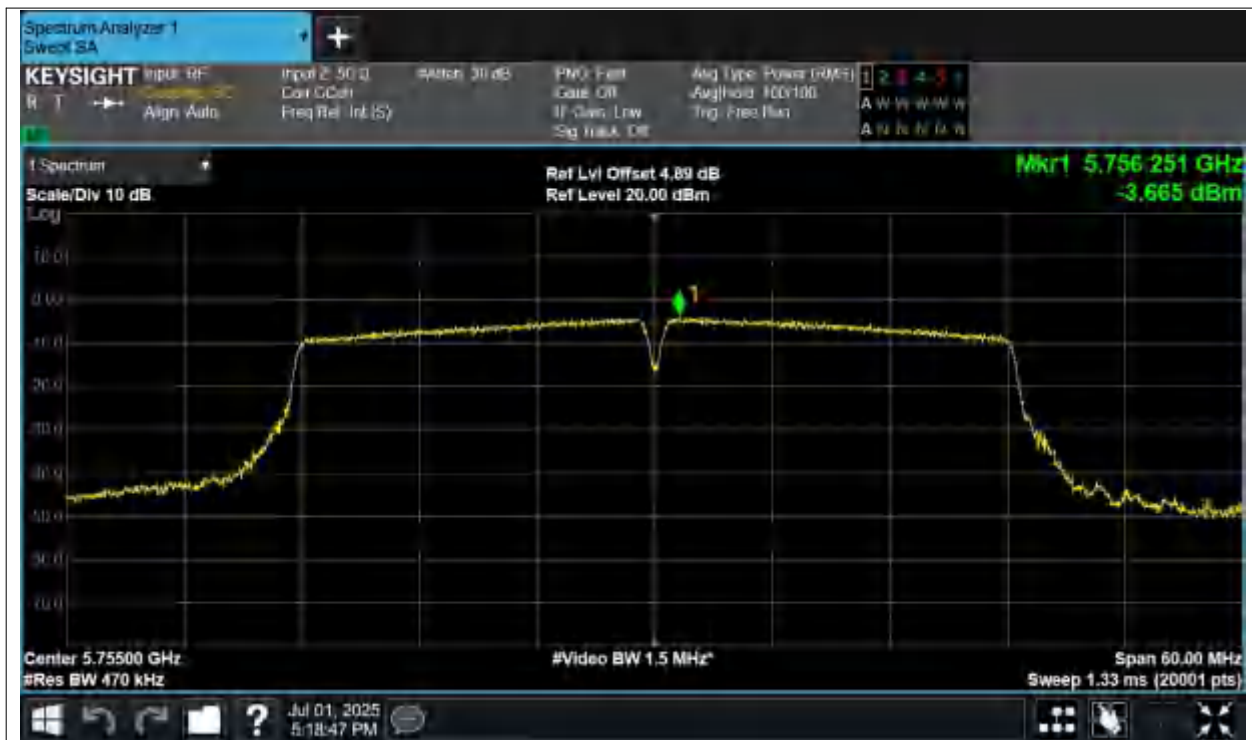
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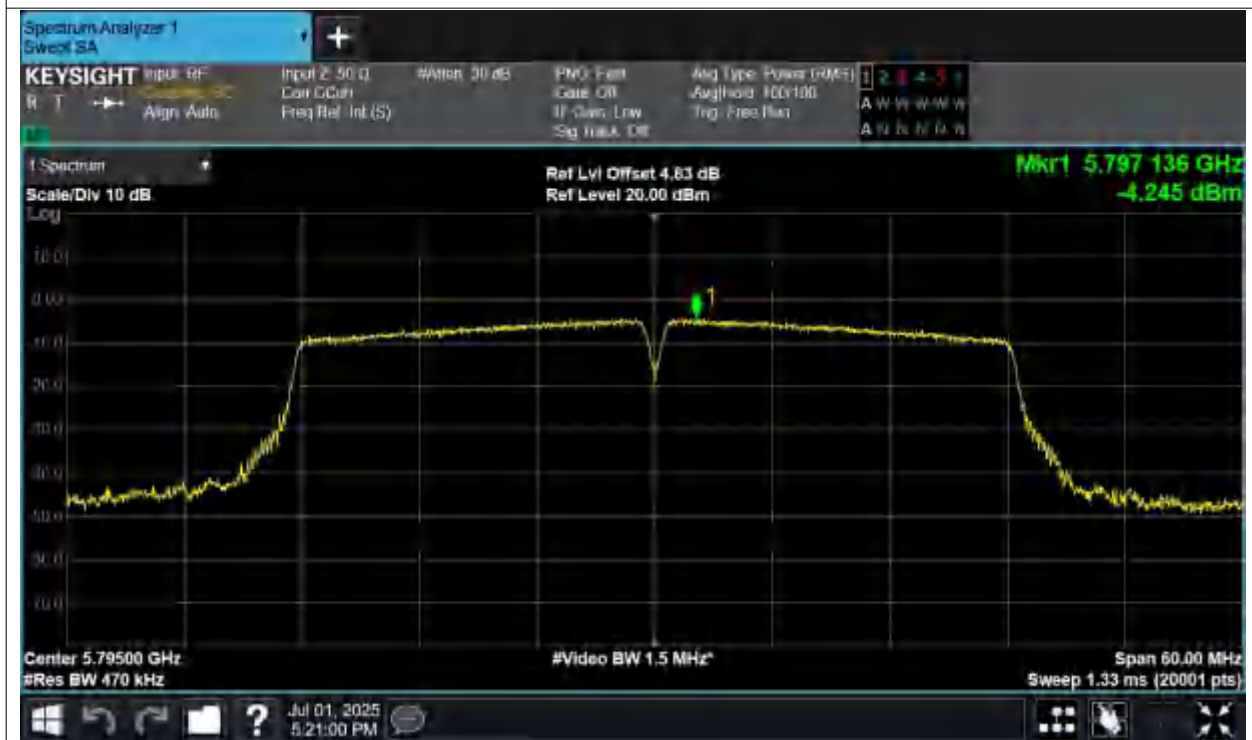
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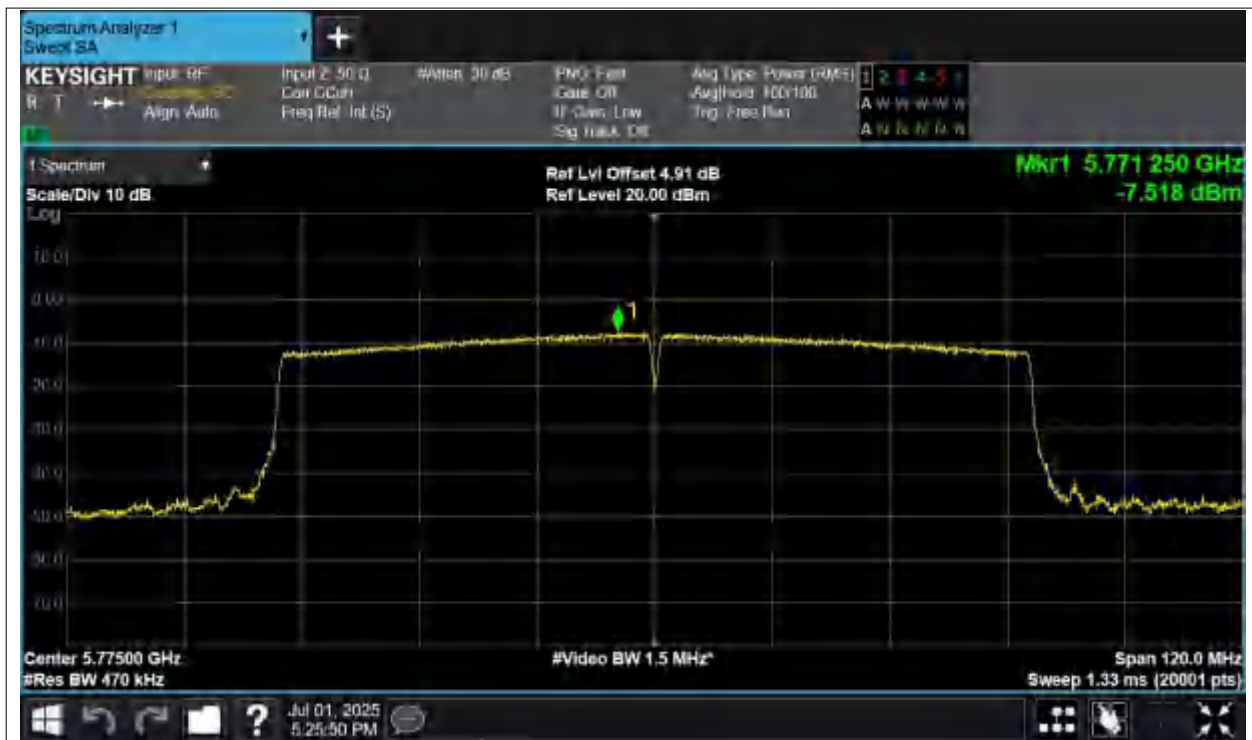
PSD NVNT ac40 5755MHz Ant1



PSD NVNT ac40 5795MHz Ant1



PSD NVNT ac80 5775MHz Ant1



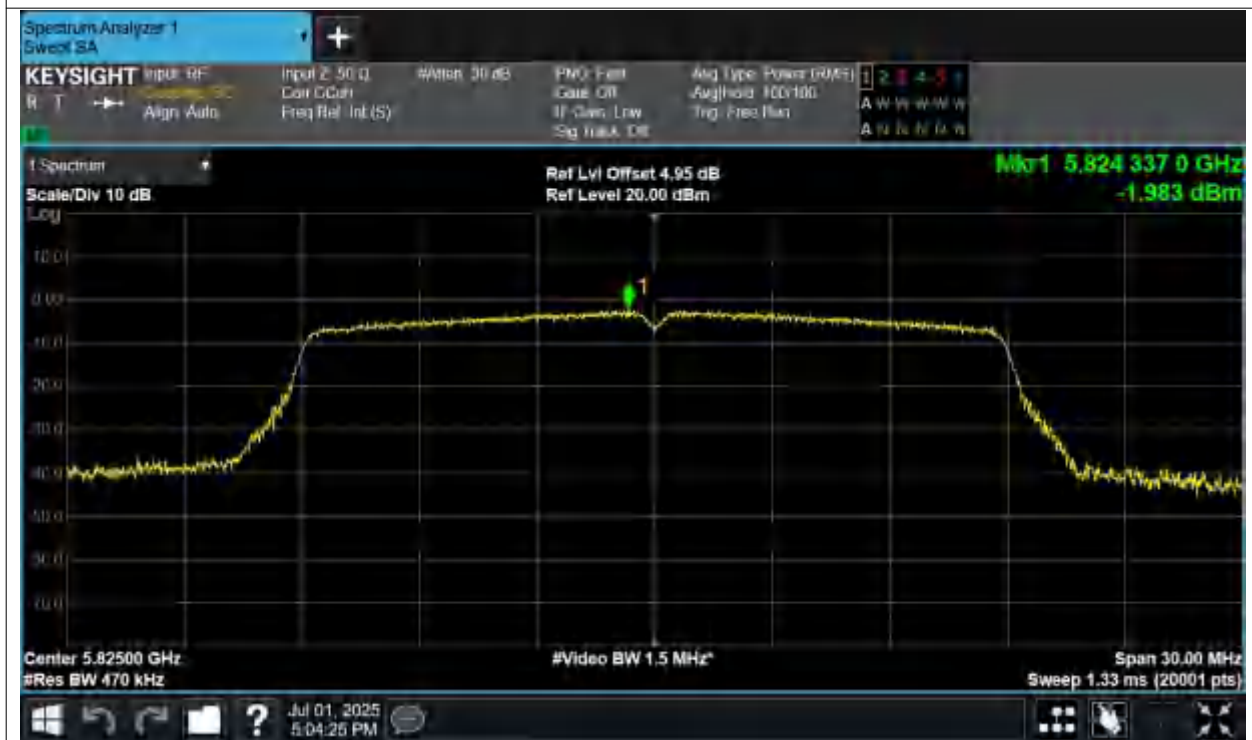
PSD NVNT n20 5745MHz Ant1



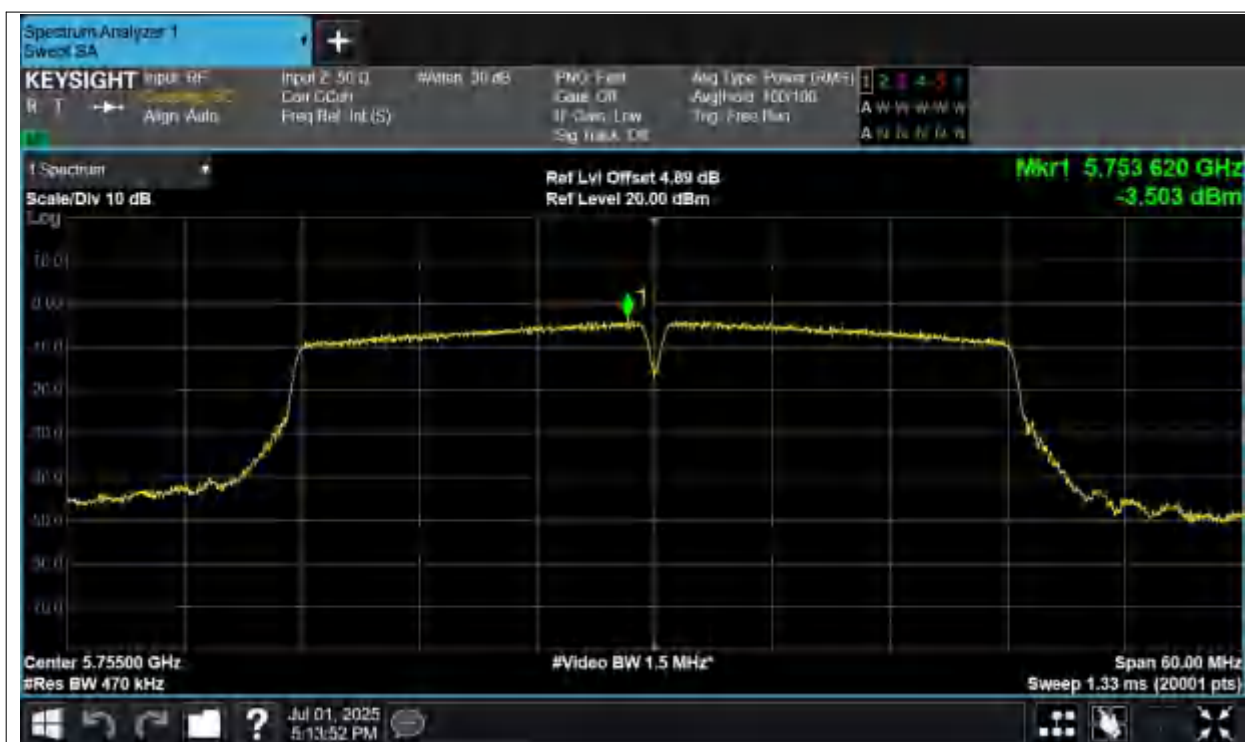
PSD NVNT n20 5785MHz Ant1



PSD NVNT n20 5825MHz Ant1



PSD NVNT n40 5755MHz Ant1



PSD NVNT n40 5795MHz Ant1





A.5. Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVNT	a	5180	Ant1	5179.994	-1.16	Within authorized band	Pass
LVNT	a	5180	Ant1	5179.994	-1.16		Pass
NVHT	a	5180	Ant1	5179.9945	-1.06		Pass
NVLT	a	5180	Ant1	5179.995	-0.97		Pass
NVNT	a	5180	Ant1	5179.9955	-0.87		Pass
HVNT	ac80	5210	Ant1	5209.9925	-1.44		Pass
LVNT	ac80	5210	Ant1	5209.9925	-1.44		Pass
NVHT	ac80	5210	Ant1	5209.993	-1.34		Pass
NVLT	ac80	5210	Ant1	5209.993	-1.34		Pass
NVNT	ac80	5210	Ant1	5209.993270189	-1.29		Pass
HVNT	n40	5190	Ant1	5189.993	-1.35		Pass
LVNT	n40	5190	Ant1	5189.9935	-1.25		Pass
NVHT	n40	5190	Ant1	5189.9935	-1.25		Pass
NVLT	n40	5190	Ant1	5189.994	-1.16		Pass
NVNT	n40	5190	Ant1	5189.9945	-1.06		Pass

Remark: “NTNV” means Normal Temperature Normal Voltage, “NVHT” means Normal Voltage High Temperature, “NVLT” means Normal Voltage Low Temperature, “LVNT” means Low Voltage Normal Temperature, “HVNT” means High Voltage Normal Temperature.



Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVNT	a	5260	Ant1	5259.9945	-1.05	Within authorized band	Pass
LVNT	a	5260	Ant1	5259.995	-0.95		Pass
NVHT	a	5260	Ant1	5259.995	-0.95		Pass
NVLT	a	5260	Ant1	5259.9955	-0.86		Pass
NVNT	a	5260	Ant1	5259.996	-0.76		Pass
HVNT	ac80	5290	Ant1	5289.9935	-1.23		Pass
LVNT	ac80	5290	Ant1	5289.9935	-1.23		Pass
NVHT	ac80	5290	Ant1	5289.9935	-1.23		Pass
NVLT	ac80	5290	Ant1	5289.994	-1.13		Pass
NVNT	ac80	5290	Ant1	5289.9945	-1.04		Pass
HVNT	n40	5270	Ant1	5269.9935	-1.23		Pass
LVNT	n40	5270	Ant1	5269.994	-1.14		Pass
NVHT	n40	5270	Ant1	5269.994	-1.14		Pass
NVLT	n40	5270	Ant1	5269.9945	-1.04		Pass
NVNT	n40	5270	Ant1	5269.995	-0.95		Pass

Remark: “NTNV” means Normal Temperature Normal Voltage, “NVHT” means Normal Voltage High Temperature, “NVLT” means Normal Voltage Low. Temperature, “LVNT” means Low Voltage Normal Temperature, “HVNT” means High Voltage Normal Temperature.



Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVNT	a	5500	Ant1	5499.99	-1.82	Within authorized band	Pass
LVNT	a	5500	Ant1	5499.9905	-1.73		Pass
NVHT	a	5500	Ant1	5499.991	-1.64		Pass
NVLT	a	5500	Ant1	5499.9915	-1.55		Pass
NVNT	a	5500	Ant1	5499.992	-1.45		Pass
HVNT	ac80	5530	Ant1	5529.989	-1.99		Pass
LVNT	ac80	5530	Ant1	5529.989	-1.99		Pass
NVHT	ac80	5530	Ant1	5529.989	-1.99		Pass
NVLT	ac80	5530	Ant1	5529.9895	-1.9		Pass
NVNT	ac80	5530	Ant1	5529.99	-1.81		Pass
HVNT	n40	5510	Ant1	5509.989	-2		Pass
LVNT	n40	5510	Ant1	5509.9895	-1.91		Pass
NVHT	n40	5510	Ant1	5509.9895	-1.91		Pass
NVLT	n40	5510	Ant1	5509.99	-1.81		Pass
NVNT	n40	5510	Ant1	5509.9905	-1.72		Pass

Remark: "NTNV" means Normal Temperature Normal Voltage, "NVHT" means Normal Voltage High Temperature, "NVLT" means Normal Voltage Low. Temperature, "LVNT" means Low Voltage Normal Temperature, "HVNT" means High Voltage Normal Temperature.



Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVNT	a	5745	Ant1	5744.99	-1.74	Within authorized band	Pass
LVNT	a	5745	Ant1	5744.9905	-1.65		Pass
NVHT	a	5745	Ant1	5744.991	-1.57		Pass
NVLT	a	5745	Ant1	5744.991	-1.57		Pass
NVNT	a	5745	Ant1	5744.992	-1.39		Pass
HVNT	ac80	5775	Ant1	5774.989	-1.9		Pass
LVNT	ac80	5775	Ant1	5774.9895	-1.82		Pass
NVHT	ac80	5775	Ant1	5774.9895	-1.82		Pass
NVLT	ac80	5775	Ant1	5774.99	-1.73		Pass
NVNT	ac80	5775	Ant1	5774.99	-1.73		Pass
HVNT	n40	5755	Ant1	5754.9895	-1.82		Pass
LVNT	n40	5755	Ant1	5754.9895	-1.82		Pass
NVHT	n40	5755	Ant1	5754.99	-1.74		Pass
NVLT	n40	5755	Ant1	5754.99	-1.74		Pass
NVNT	n40	5755	Ant1	5754.9905	-1.65		Pass

Remark: “NTNV” means Normal Temperature Normal Voltage, “NVHT” means Normal Voltage High Temperature, “NVLT” means Normal Voltage Low Temperature, “LVNT” means Low Voltage Normal Temperature, “HVNT” means High Voltage Normal Temperature.

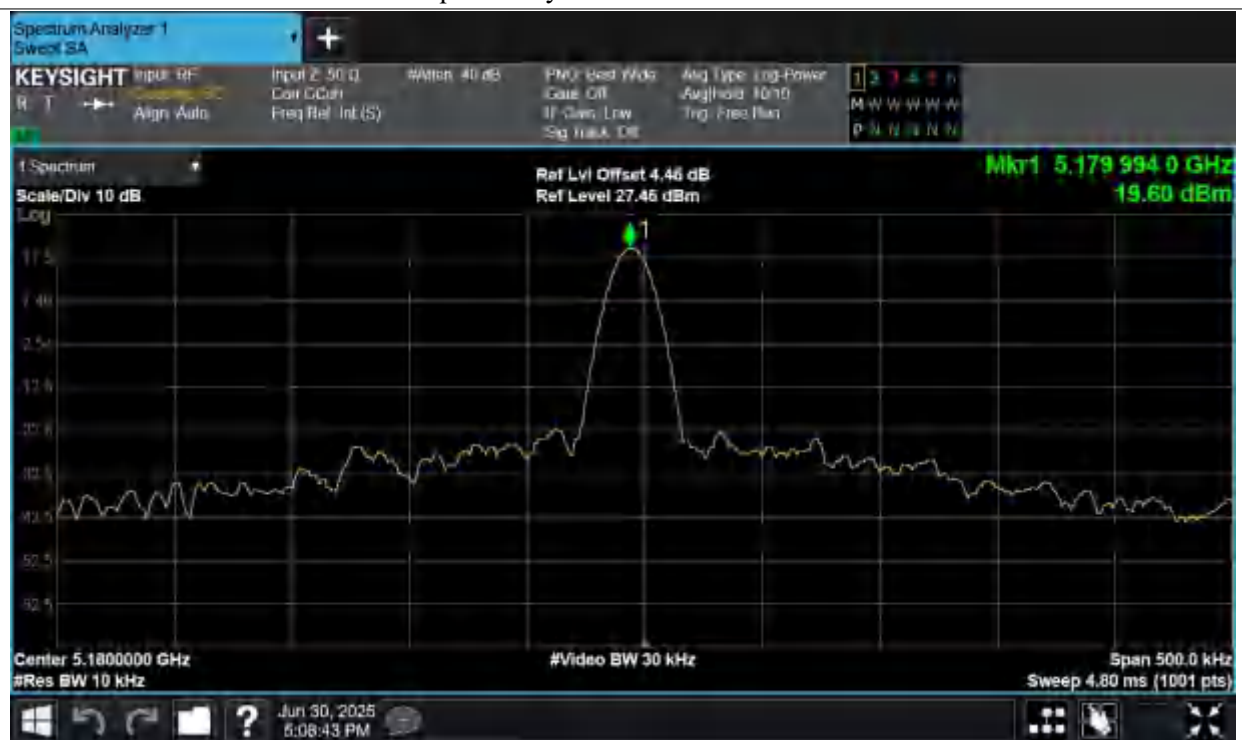


Test Graphs

Freq. Stability HVNT a 5180MHz Ant1



Freq. Stability LVNT a 5180MHz Ant1



Freq. Stability NVHT a 5180MHz Ant1



Freq. Stability NVLT a 5180MHz Ant1



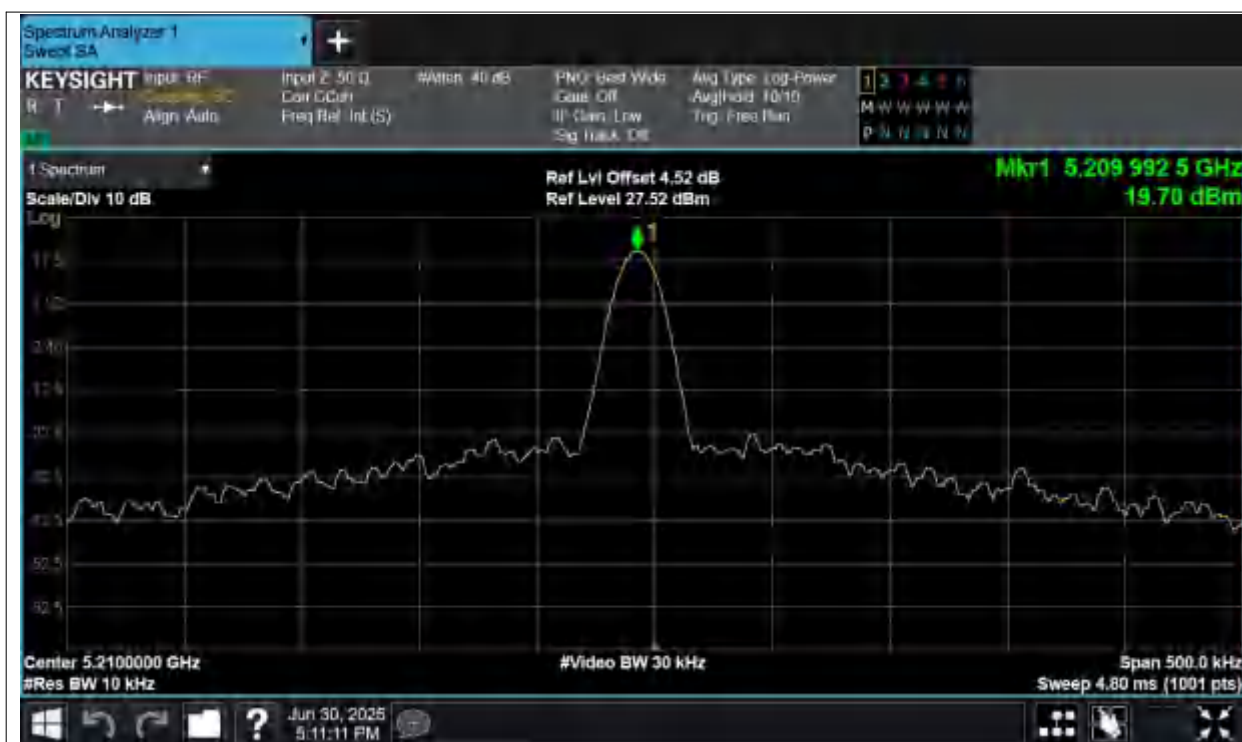
Freq. Stability NVNT a 5180MHz Ant1



Freq. Stability HVNT ac80 5210MHz Ant1



Freq. Stability LVNT ac80 5210MHz Ant1



Freq. Stability NVHT ac80 5210MHz Ant1



Freq. Stability NVLT ac80 5210MHz Ant1



Freq. Stability NVNT ac80 5210MHz Ant1



Freq. Stability HVNT n40 5190MHz Ant1



Freq. Stability LVNT n40 5190MHz Ant1



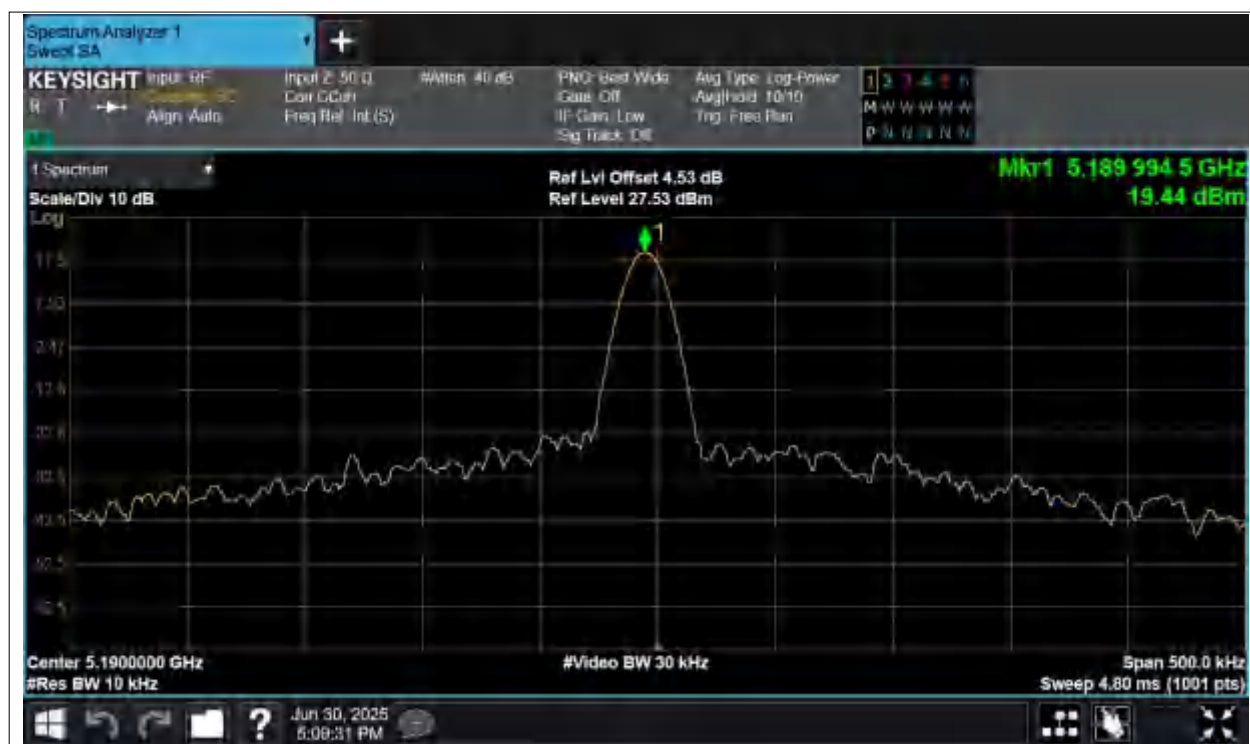
Freq. Stability NVHT n40 5190MHz Ant1

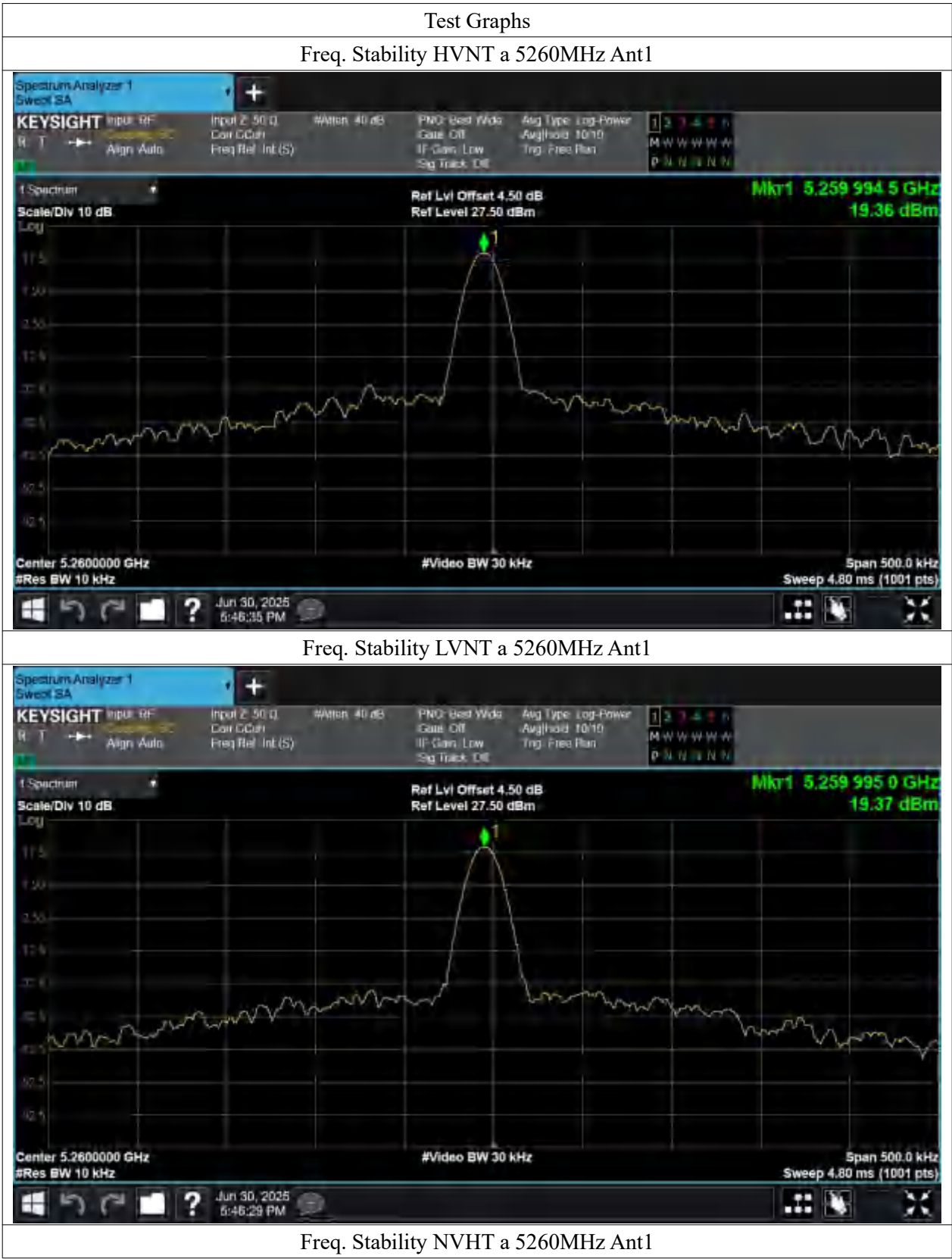


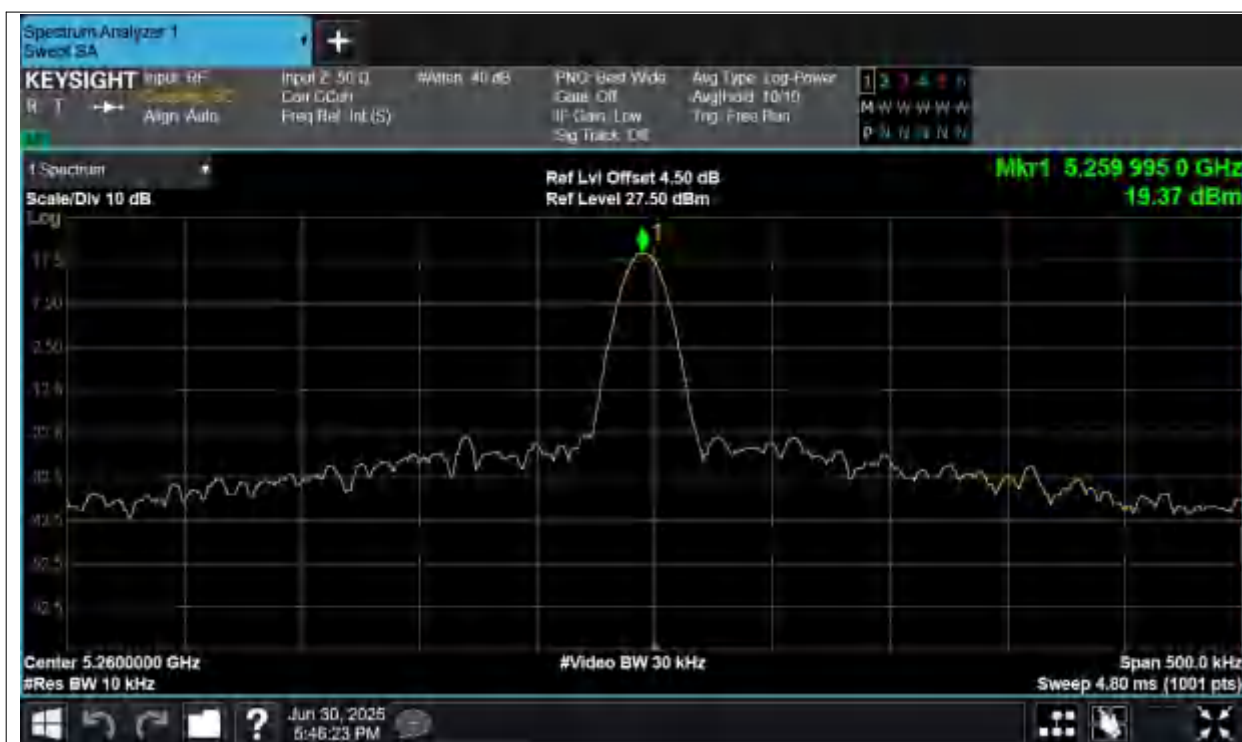
Freq. Stability NVLT n40 5190MHz Ant1



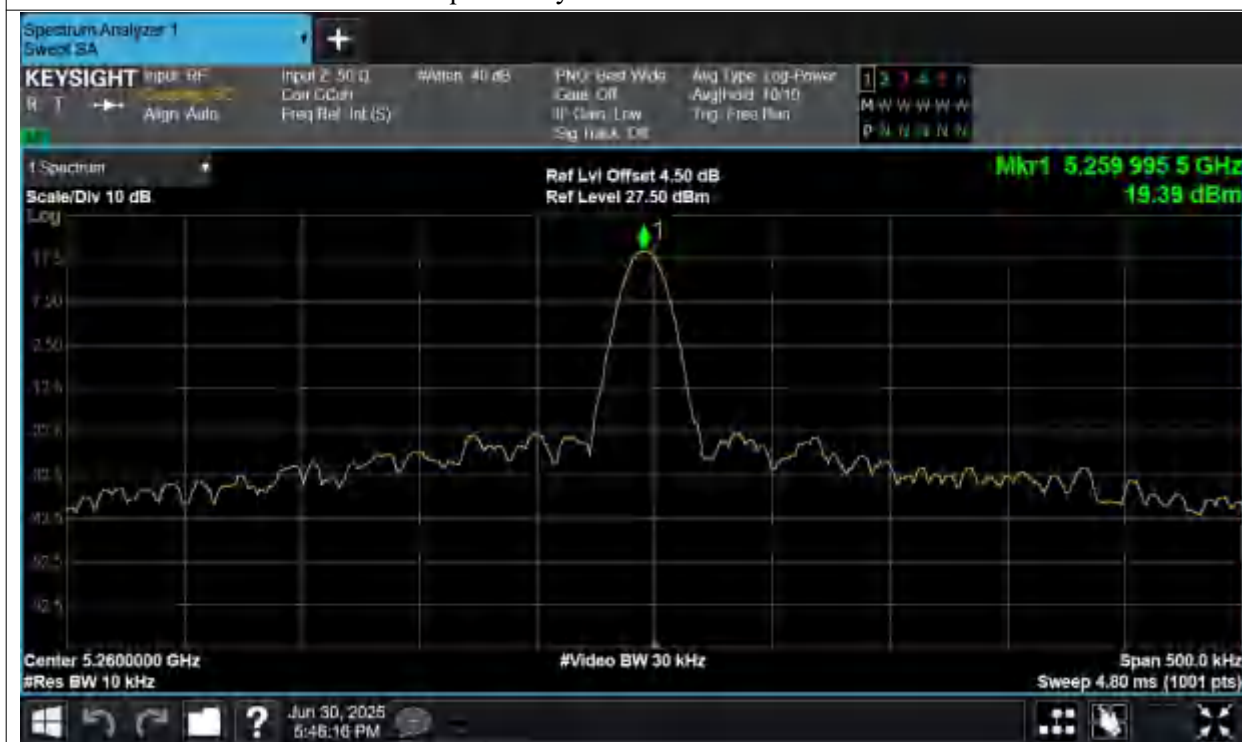
Freq. Stability NVNT n40 5190MHz Ant1







Freq. Stability NVLT a 5260MHz Ant1



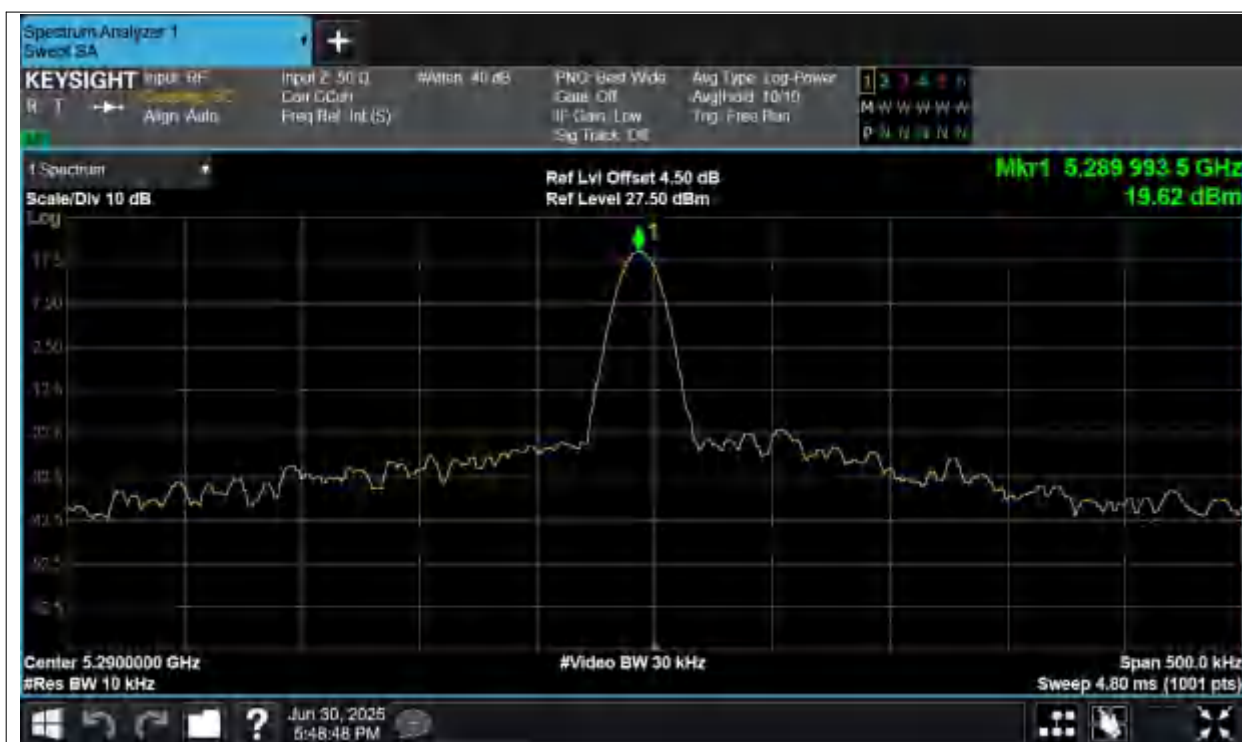
Freq. Stability NVNT a 5260MHz Ant1



Freq. Stability HVNT ac80 5290MHz Ant1



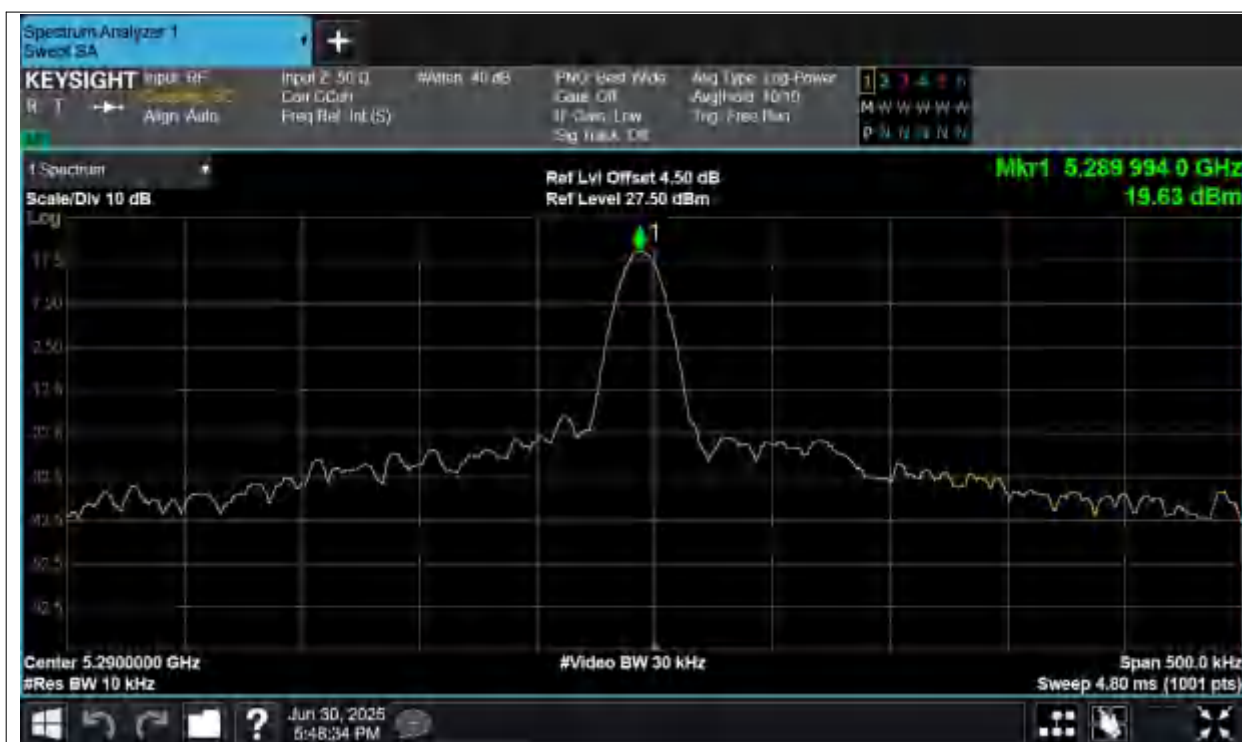
Freq. Stability LVNT ac80 5290MHz Ant1



Freq. Stability NVHT ac80 5290MHz Ant1



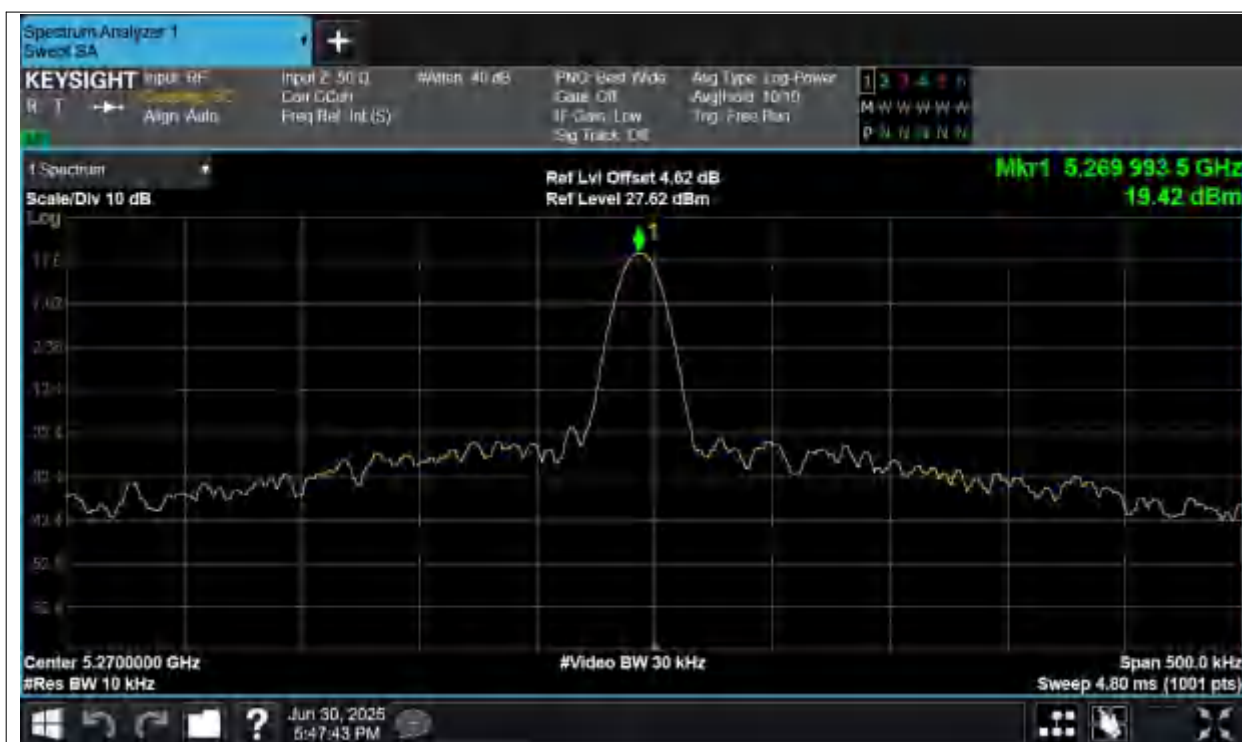
Freq. Stability NVLT ac80 5290MHz Ant1



Freq. Stability NVNT ac80 5290MHz Ant1



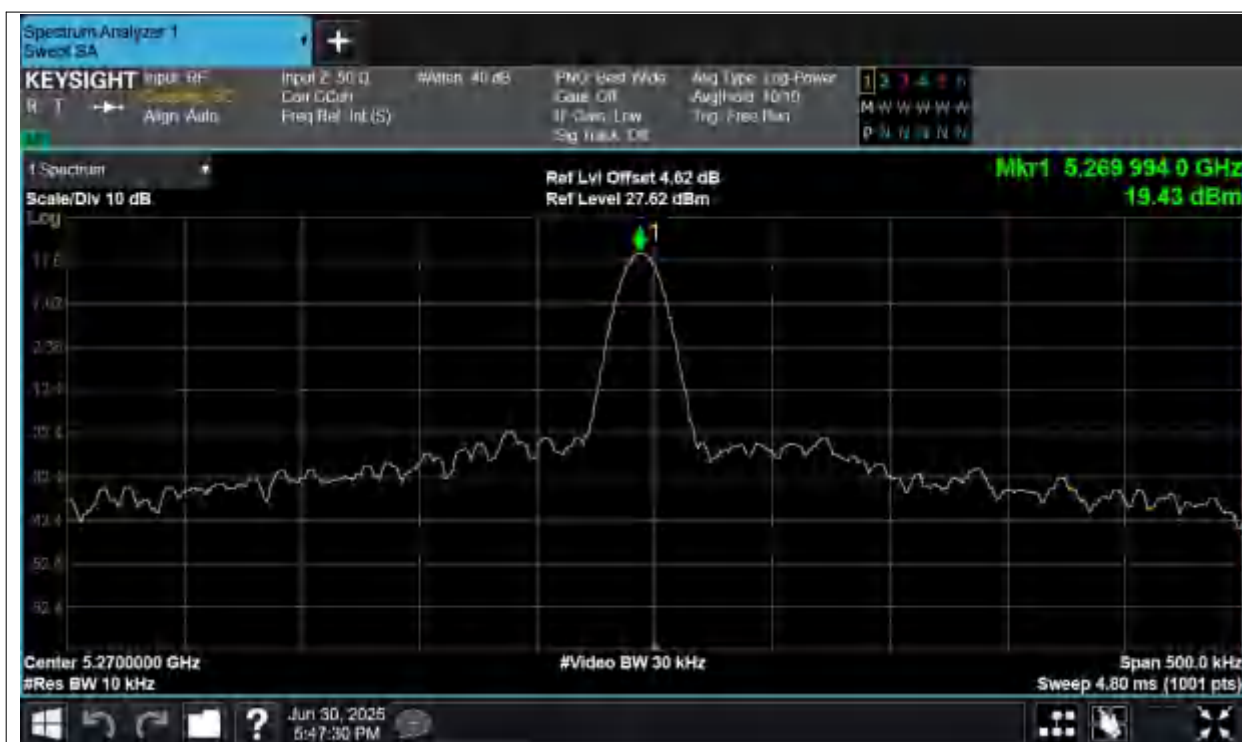
Freq. Stability HVNT n40 5270MHz Ant1



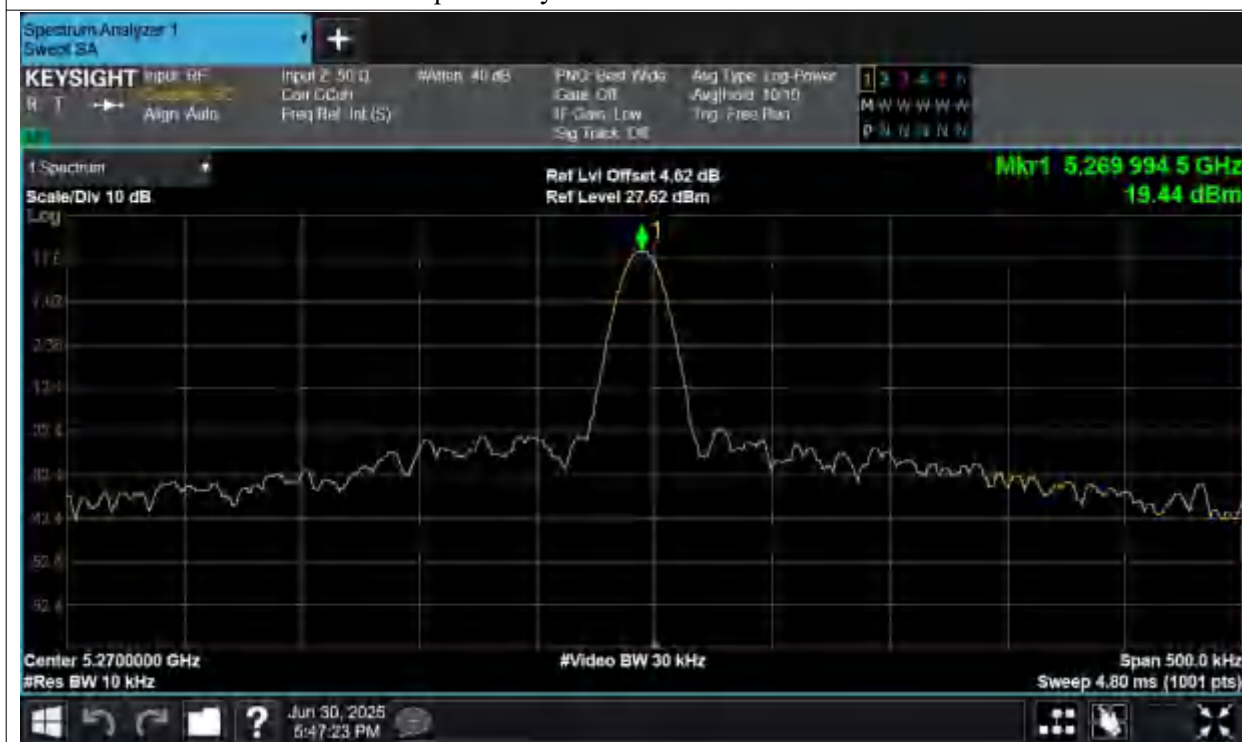
Freq. Stability LVNT n40 5270MHz Ant1



Freq. Stability NVHT n40 5270MHz Ant1



Freq. Stability NVLT n40 5270MHz Ant1



Freq. Stability NVNT n40 5270MHz Ant1





Test Graphs

Freq. Stability HVNT a 5500MHz Ant1



Freq. Stability LVNT a 5500MHz Ant1



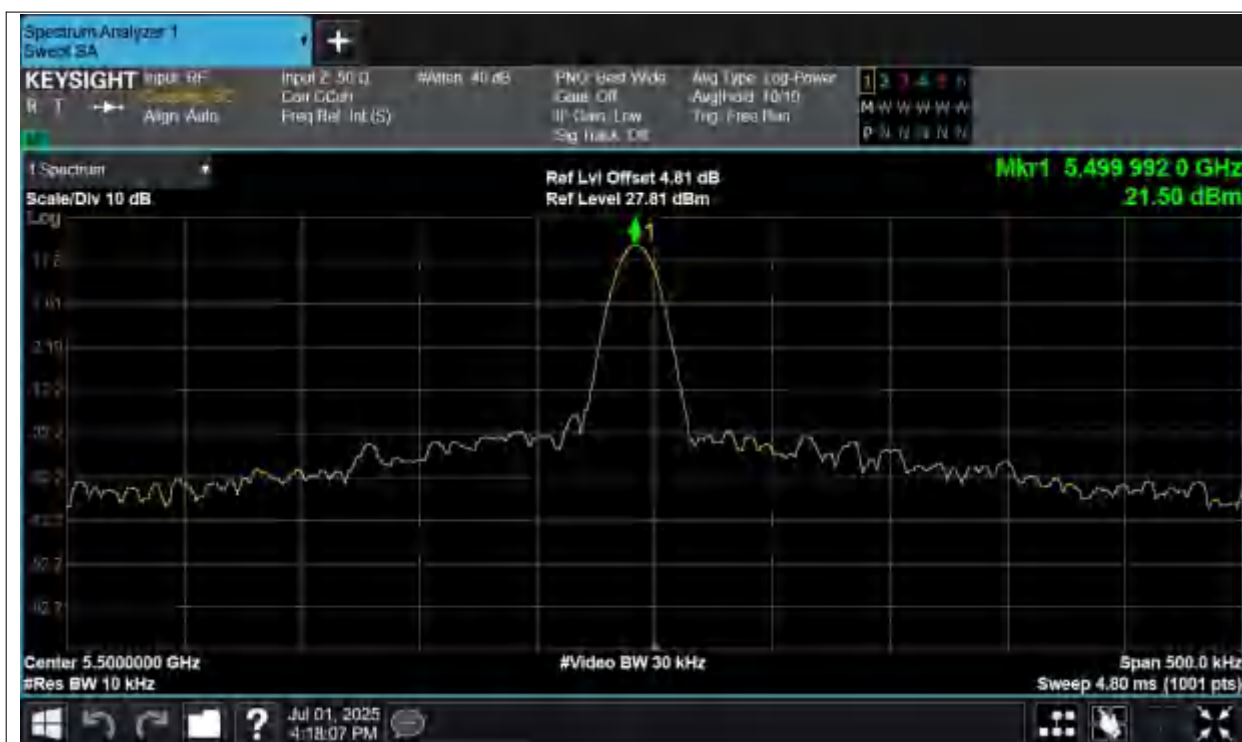
Freq. Stability NVHT a 5500MHz Ant1



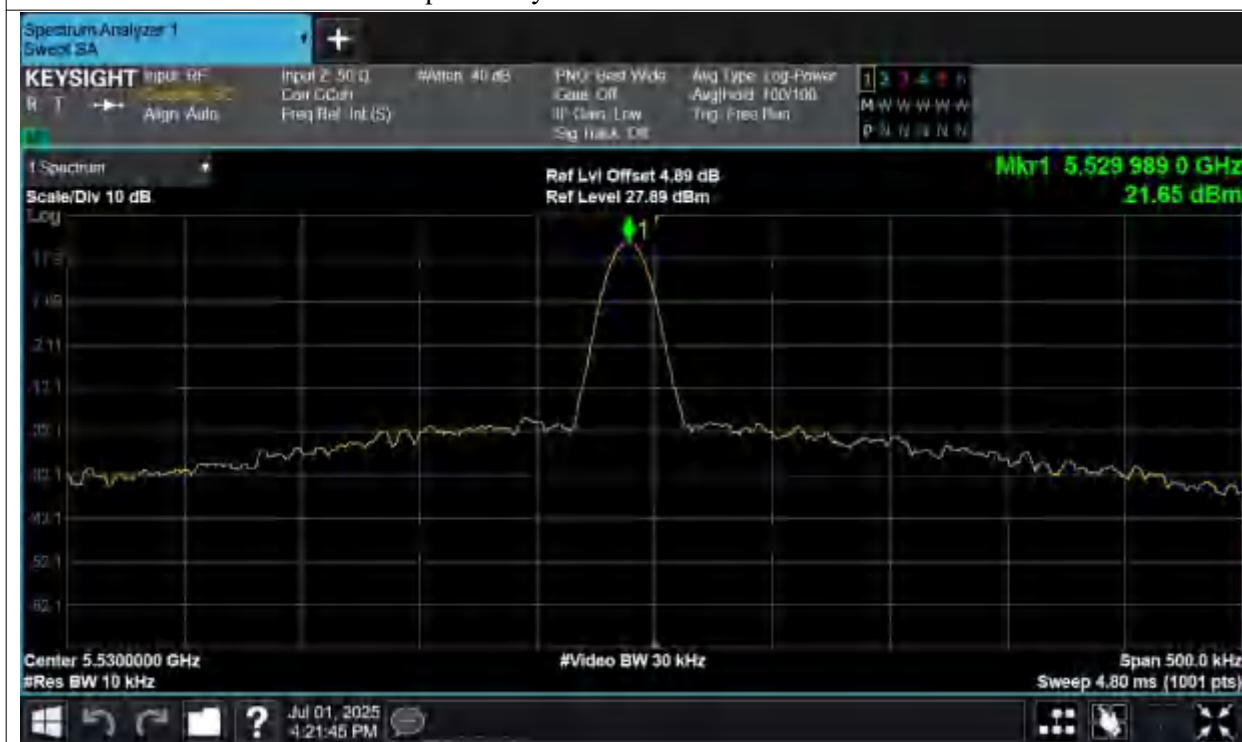
Freq. Stability NVLT a 5500MHz Ant1



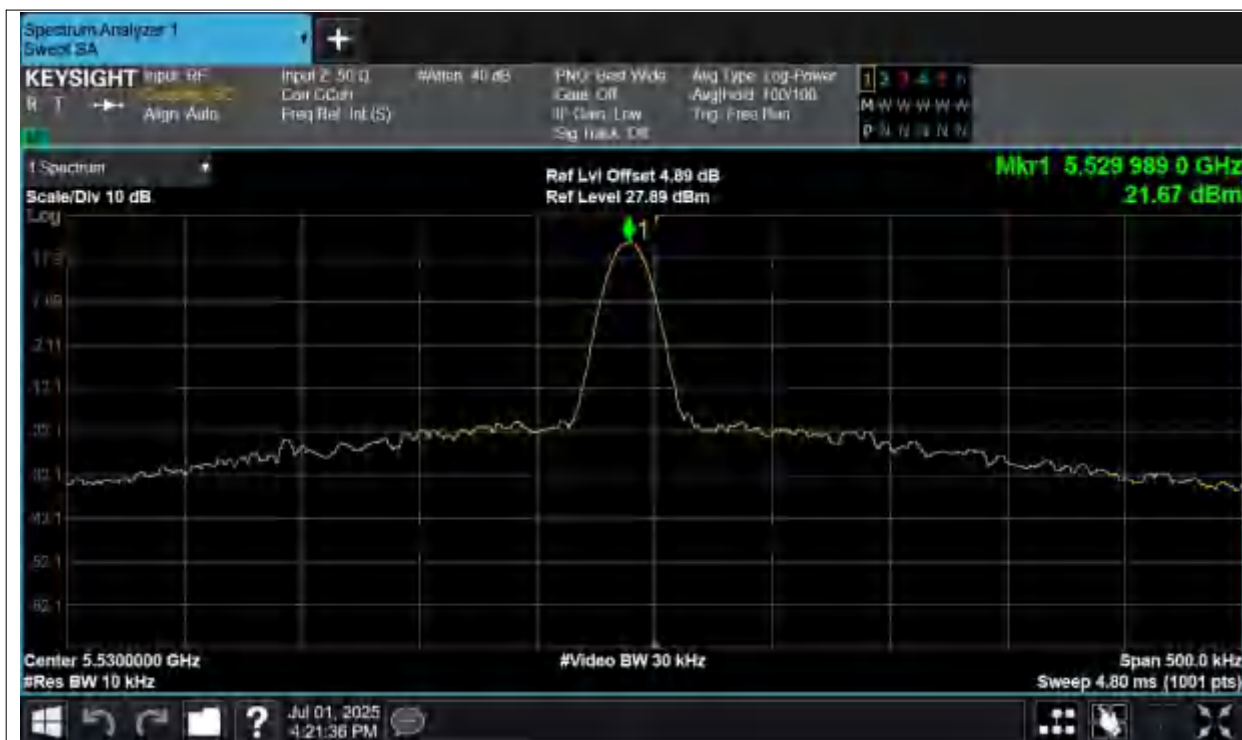
Freq. Stability NVNT a 5500MHz Ant1



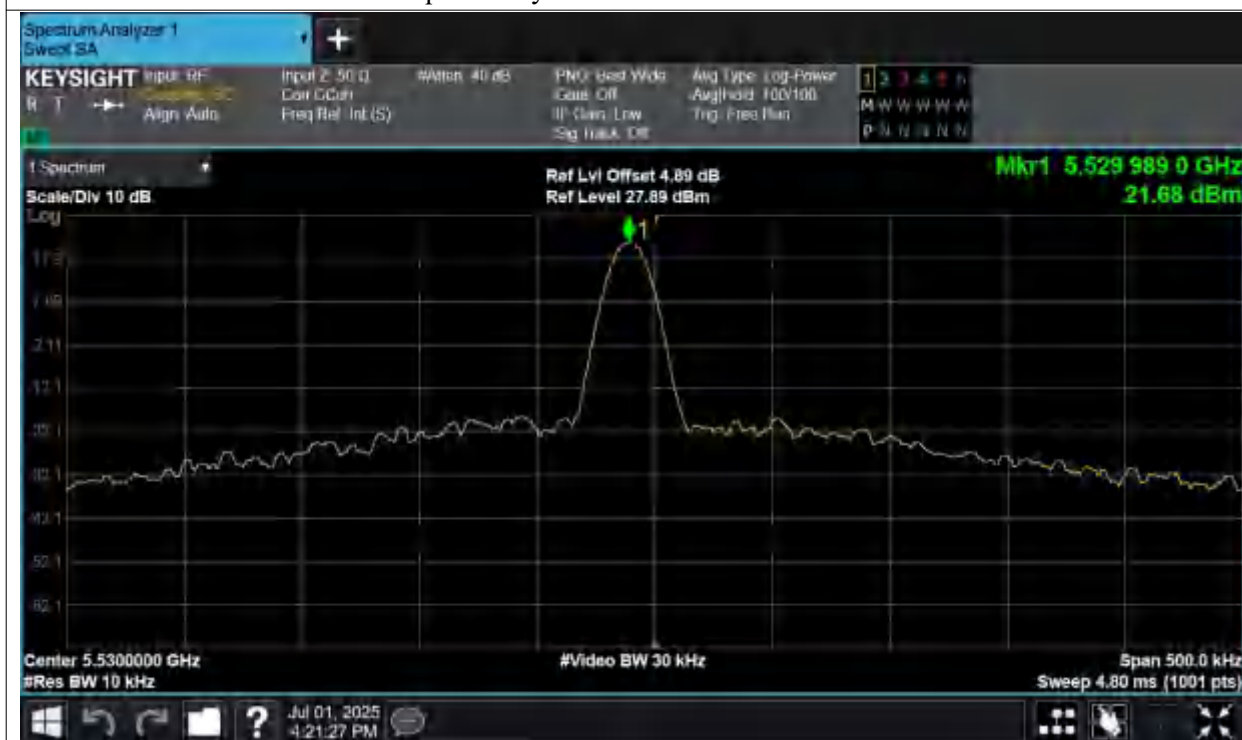
Freq. Stability HVNT ac80 5530MHz Ant1



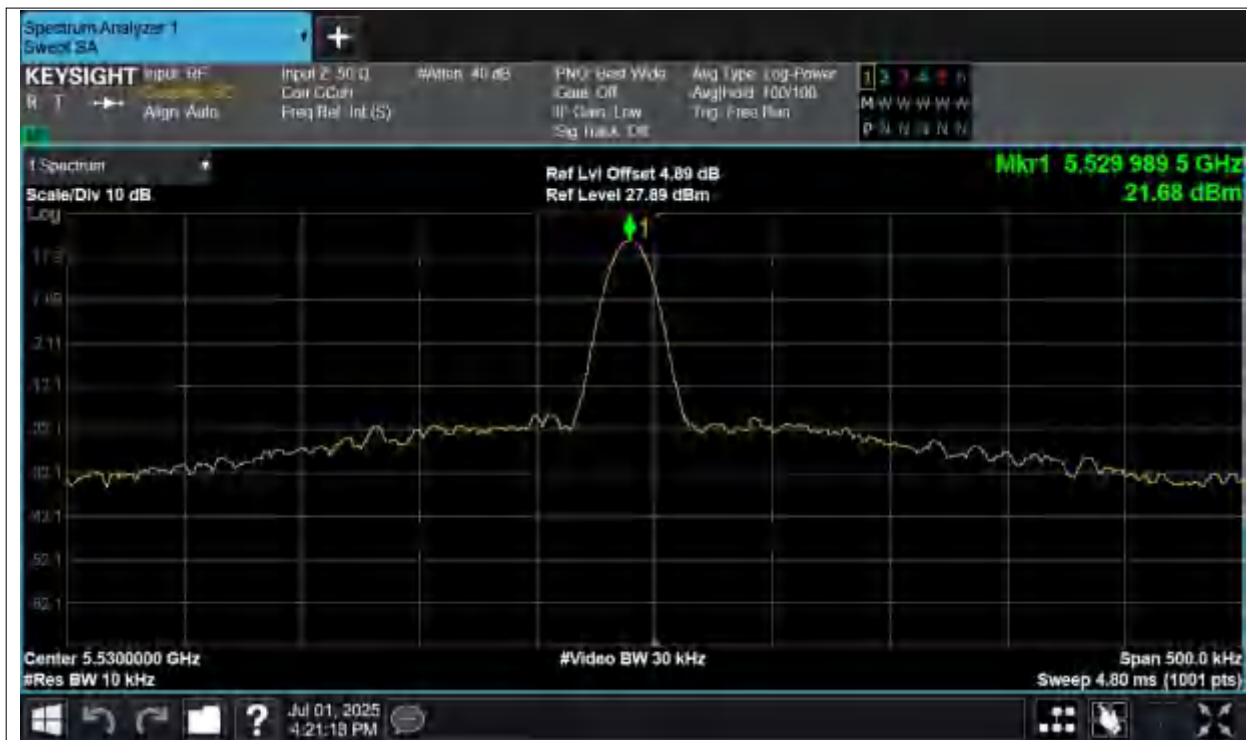
Freq. Stability LVNT ac80 5530MHz Ant1



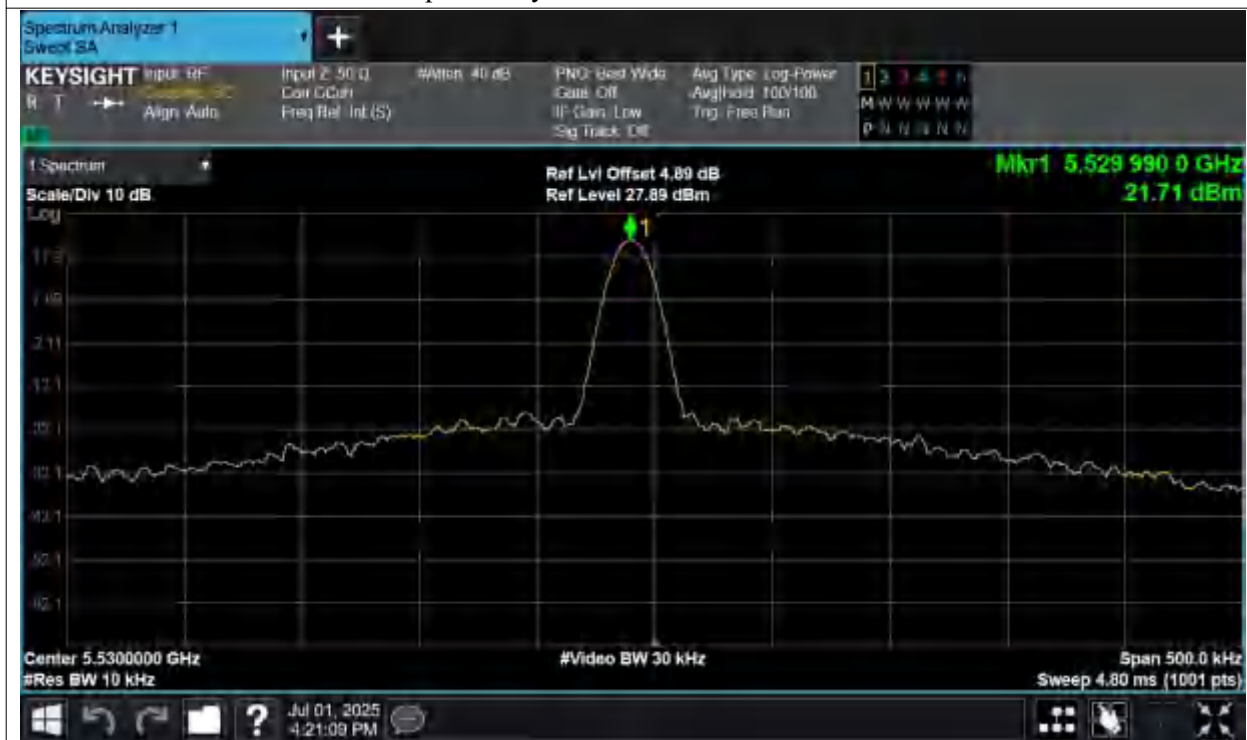
Freq. Stability NVHT ac80 5530MHz Ant1



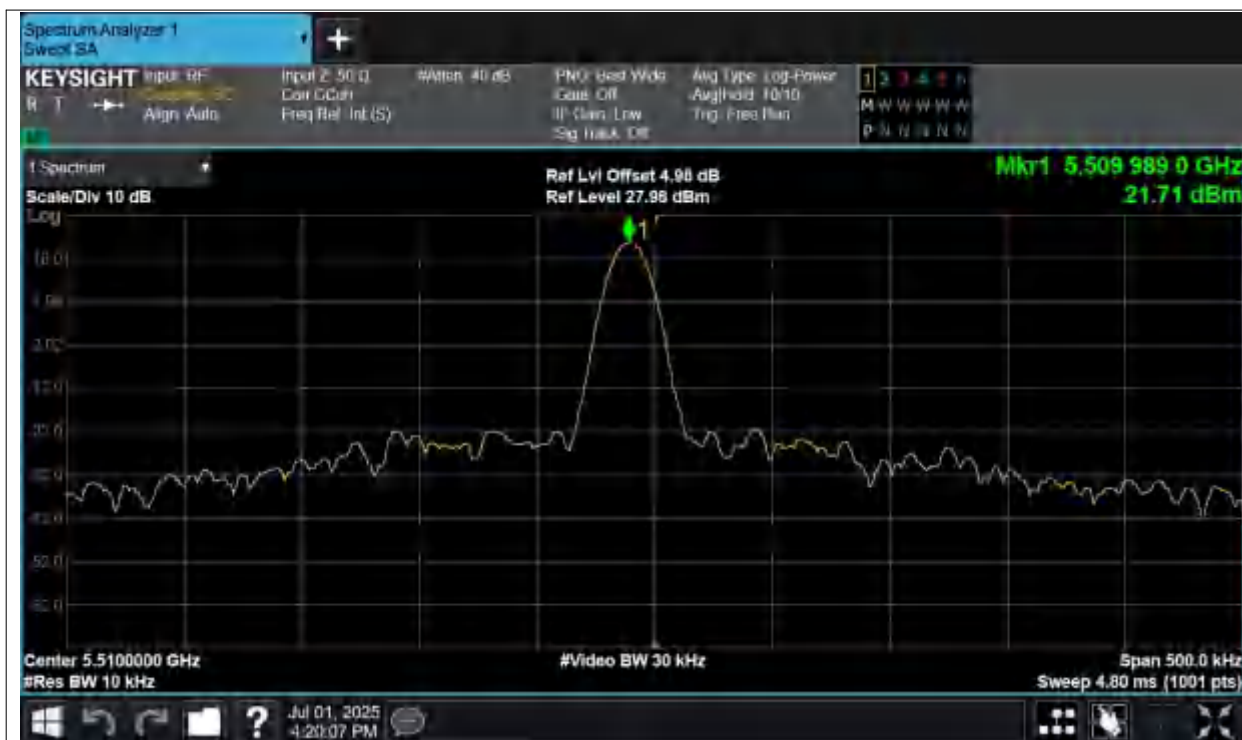
Freq. Stability NVLT ac80 5530MHz Ant1



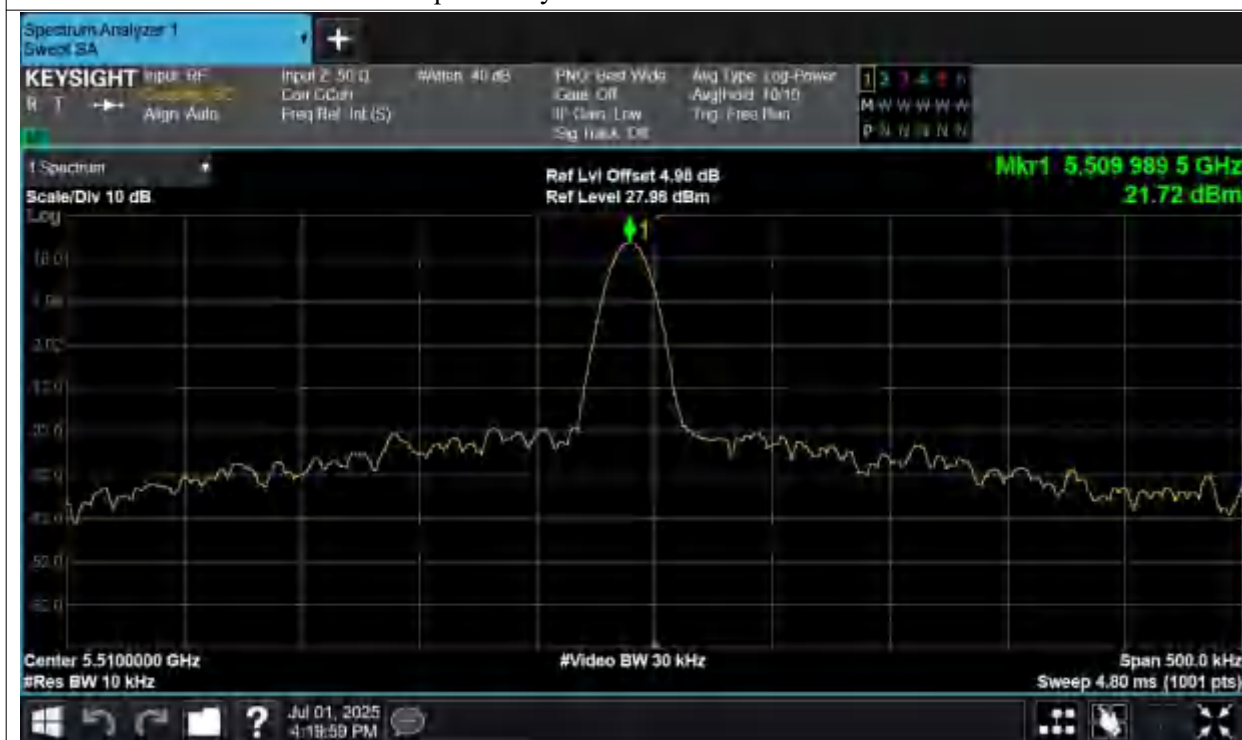
Freq. Stability NVNT ac80 5530MHz Ant1



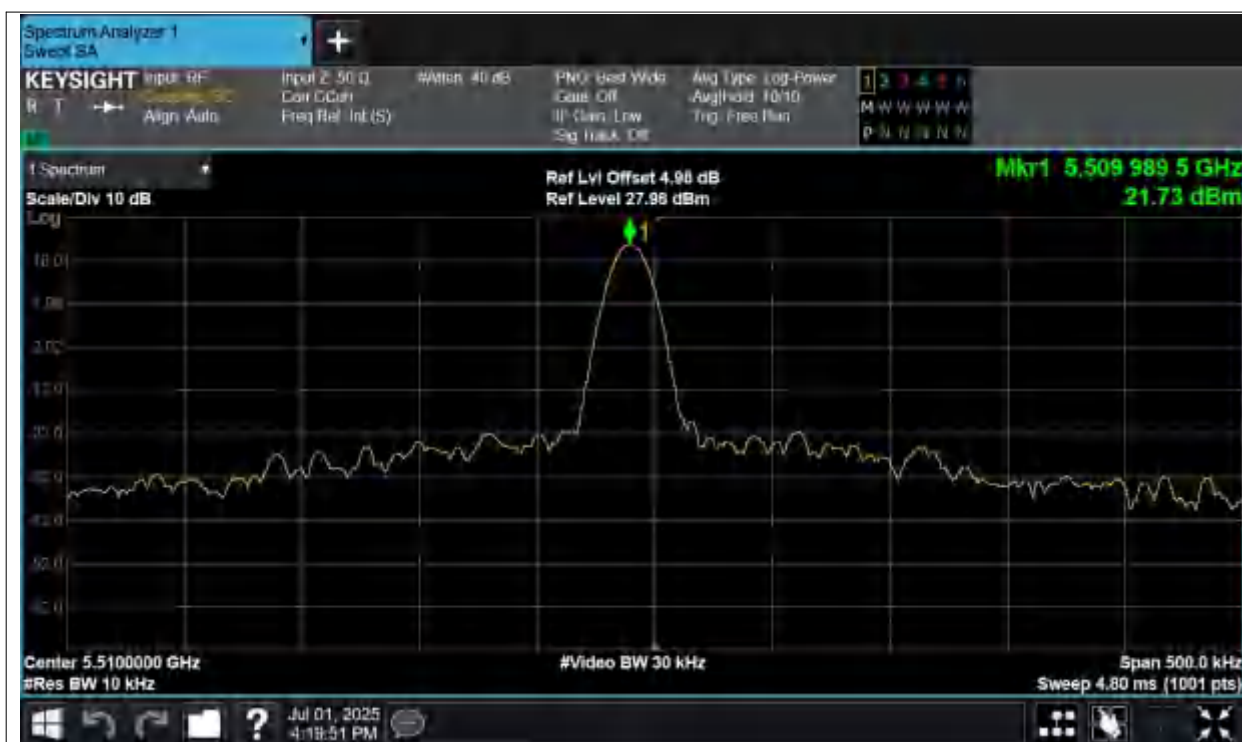
Freq. Stability HVNT n40 5510MHz Ant1



Freq. Stability LVNT n40 5510MHz Ant1



Freq. Stability NVHT n40 5510MHz Ant1



Freq. Stability NVLT n40 5510MHz Ant1



Freq. Stability NVNT n40 5510MHz Ant1



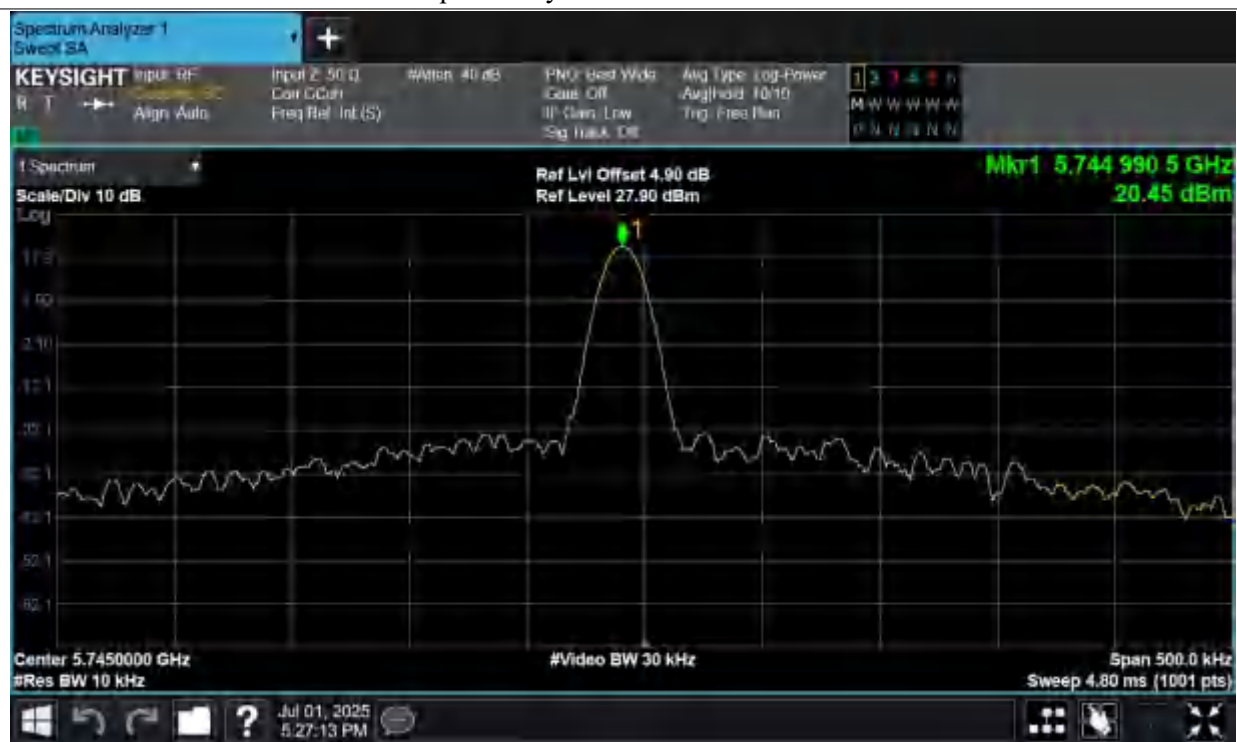


Test Graphs

Freq. Stability HVNT a 5745MHz Ant1



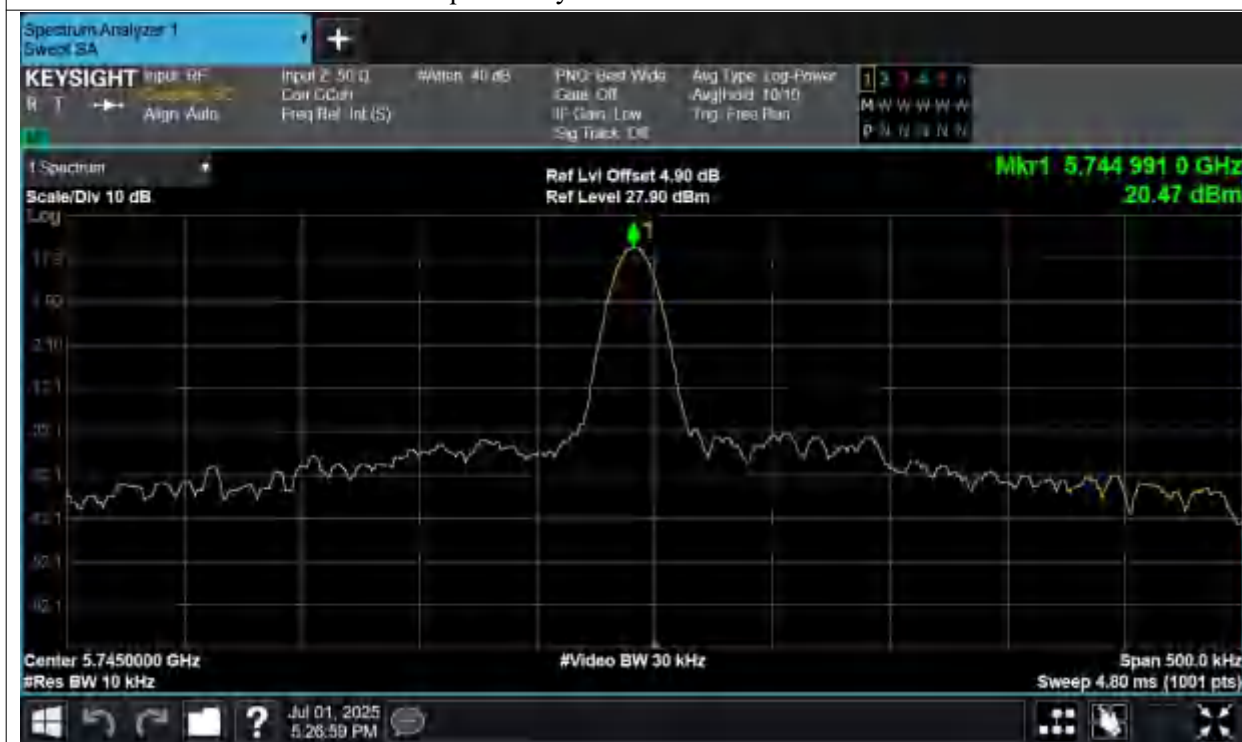
Freq. Stability LVNT a 5745MHz Ant1



Freq. Stability NVHT a 5745MHz Ant1



Freq. Stability NVLT a 5745MHz Ant1



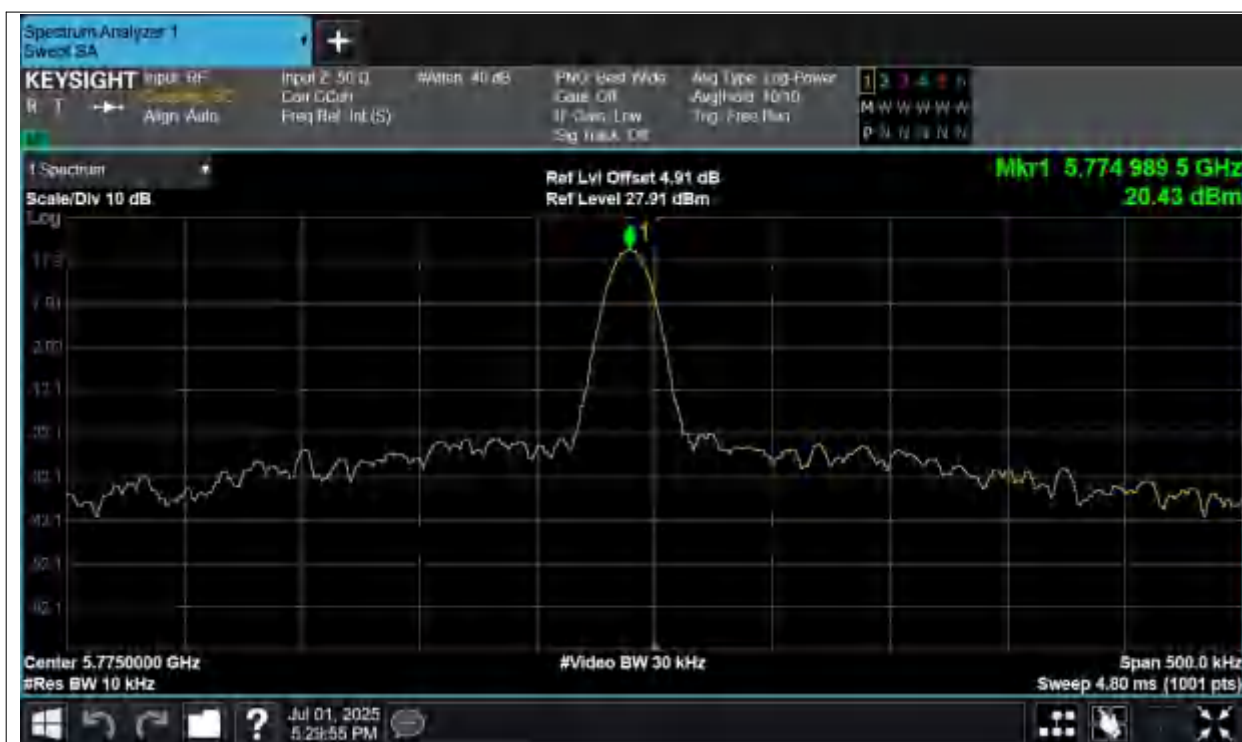
Freq. Stability NVNT a 5745MHz Ant1



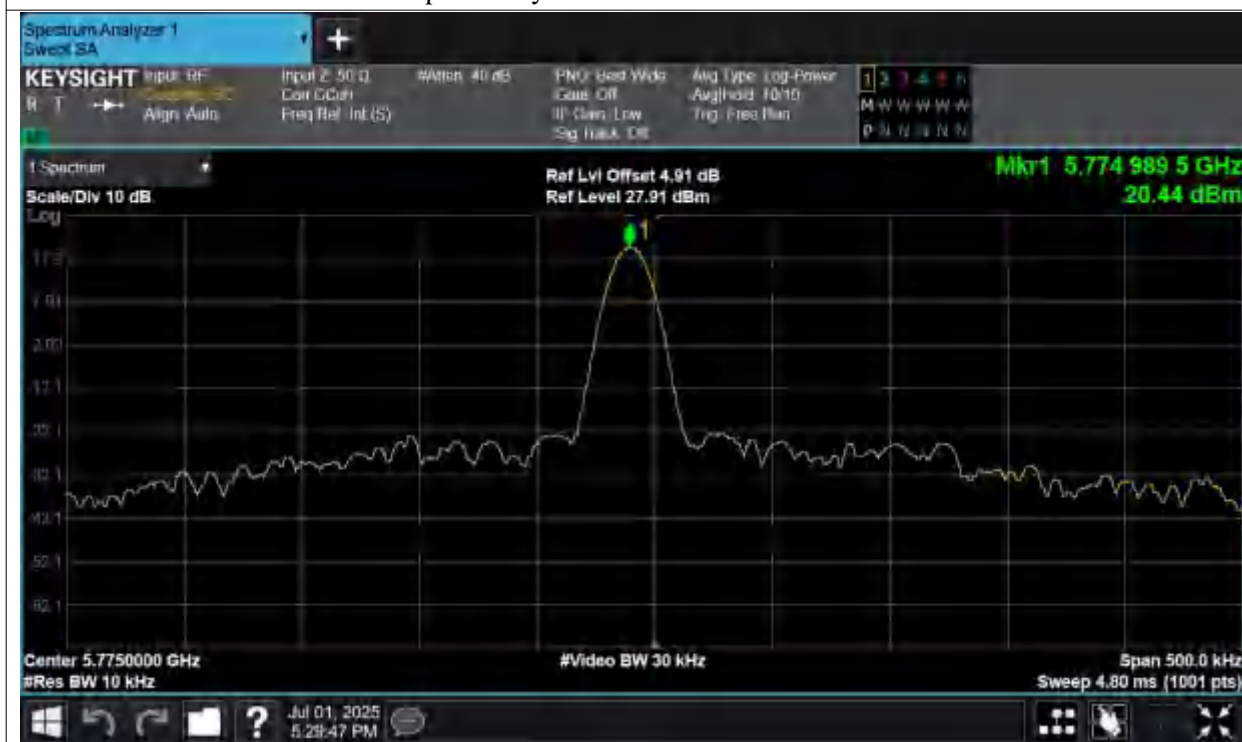
Freq. Stability HVNT ac80 5775MHz Ant1



Freq. Stability LVNT ac80 5775MHz Ant1



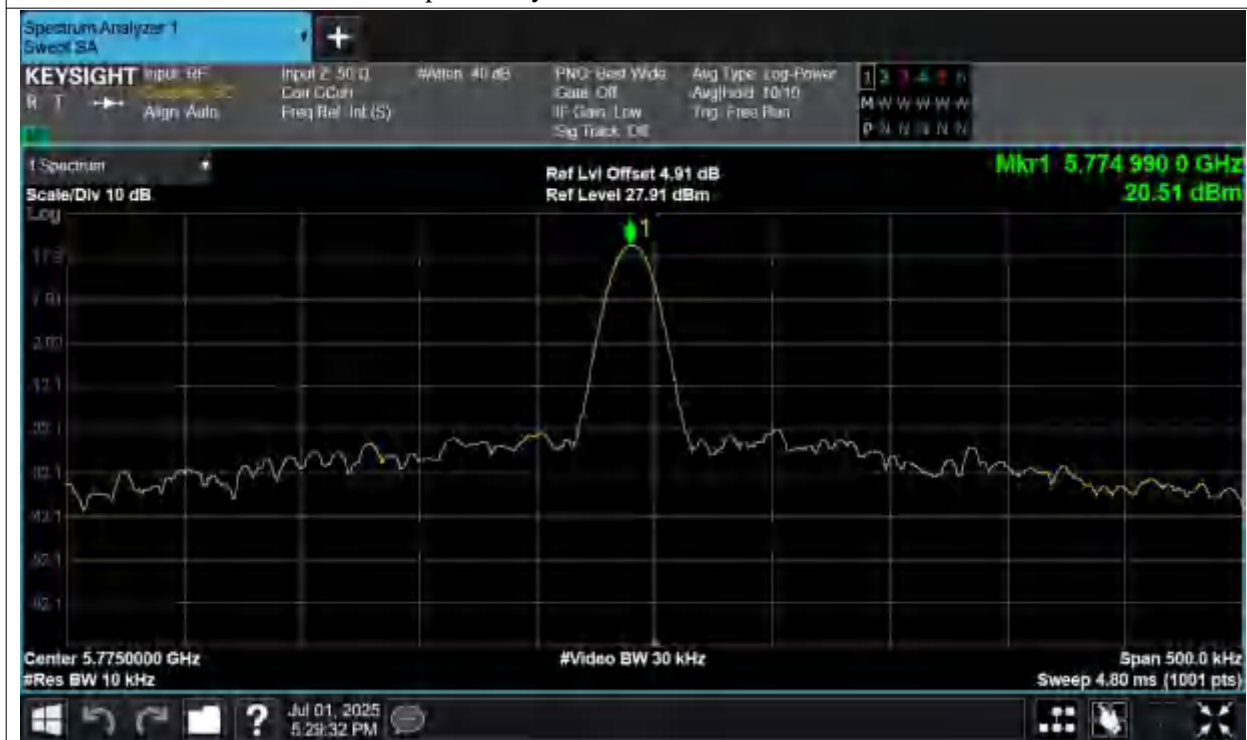
Freq. Stability NVHT ac80 5775MHz Ant1



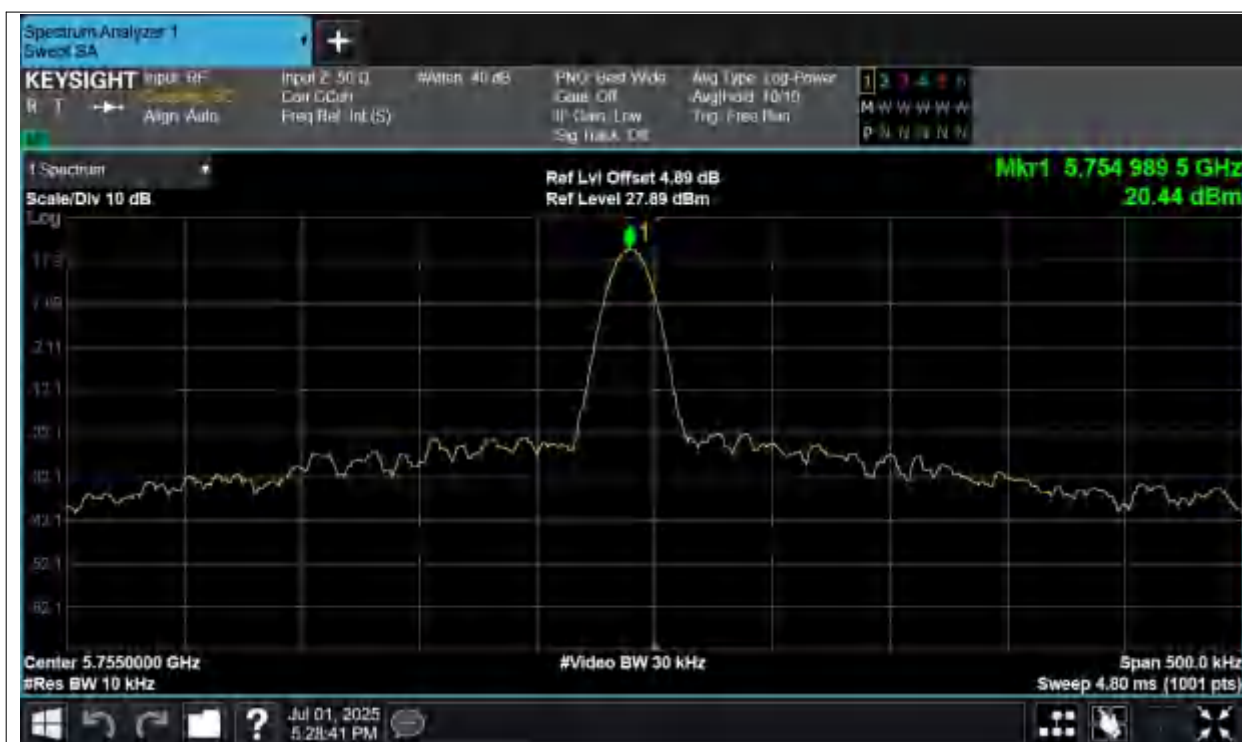
Freq. Stability NVLT ac80 5775MHz Ant1



Freq. Stability NVNT ac80 5775MHz Ant1



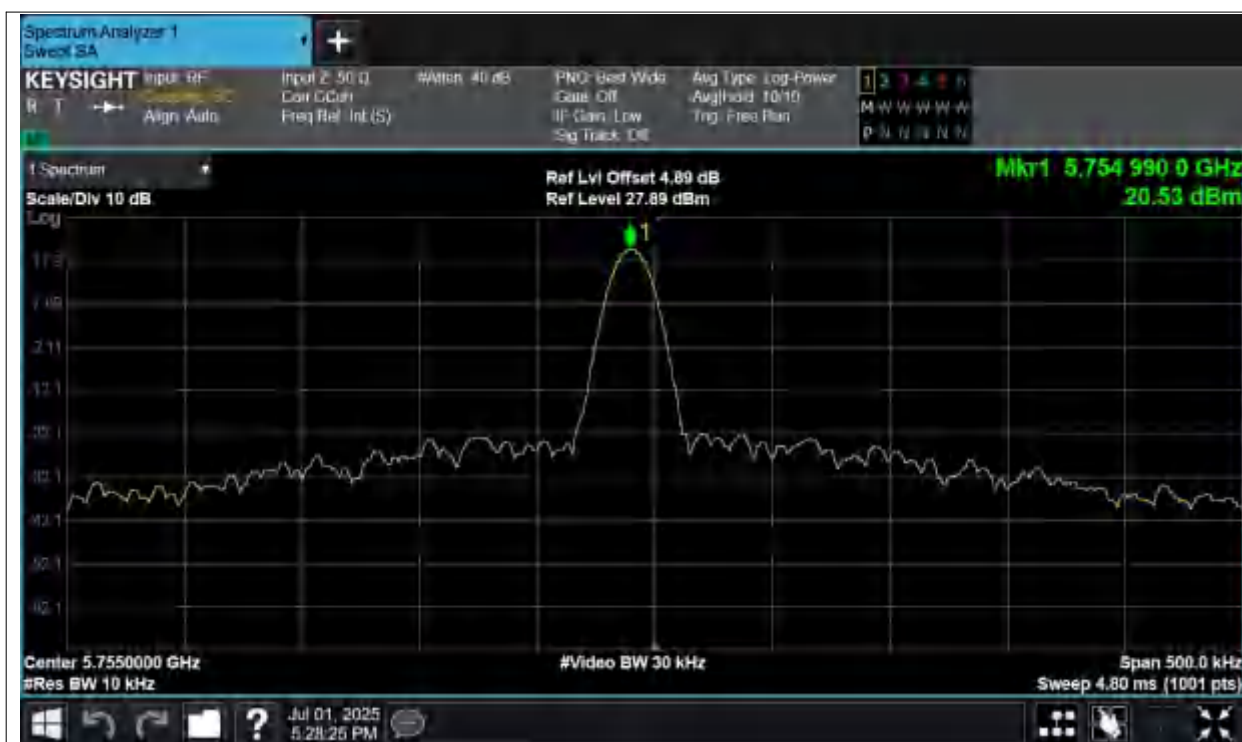
Freq. Stability HVNT n40 5755MHz Ant1



Freq. Stability LVNT n40 5755MHz Ant1



Freq. Stability NVHT n40 5755MHz Ant1



Freq. Stability NVLT n40 5755MHz Ant1



Freq. Stability NVNT n40 5755MHz Ant1



**A.6. Dynamic Frequency Selection**

Detection Thresholds

Mode	Frequency (MHz)	Type	Result	Verdict
ac20	5320	DFS_FCC_T0	See test Graph	Pass
ac20	5500	DFS_FCC_T0	See test Graph	Pass
ac80	5290	DFS_FCC_T0	See test Graph	Pass
ac80	5530	DFS_FCC_T0	See test Graph	Pass

Spectrum analyzer settings:

Span: Zero

Detector Type: Peak

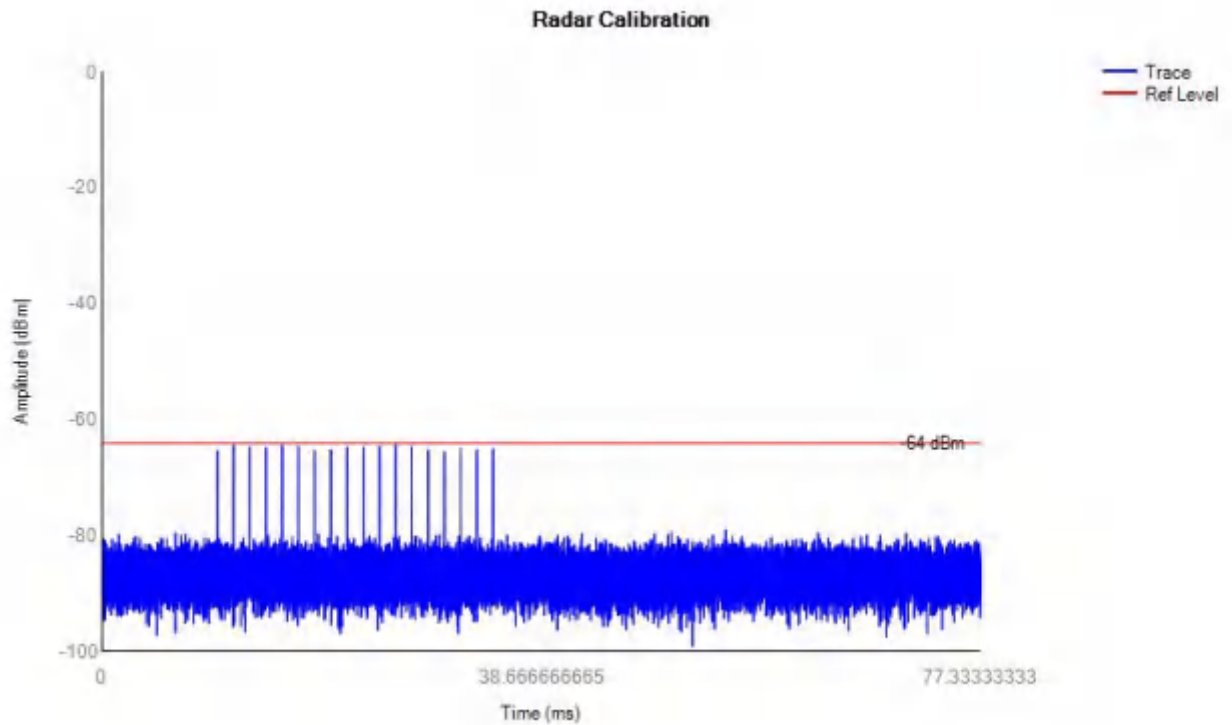
RBW: 3MHz

VBW: 3MHz

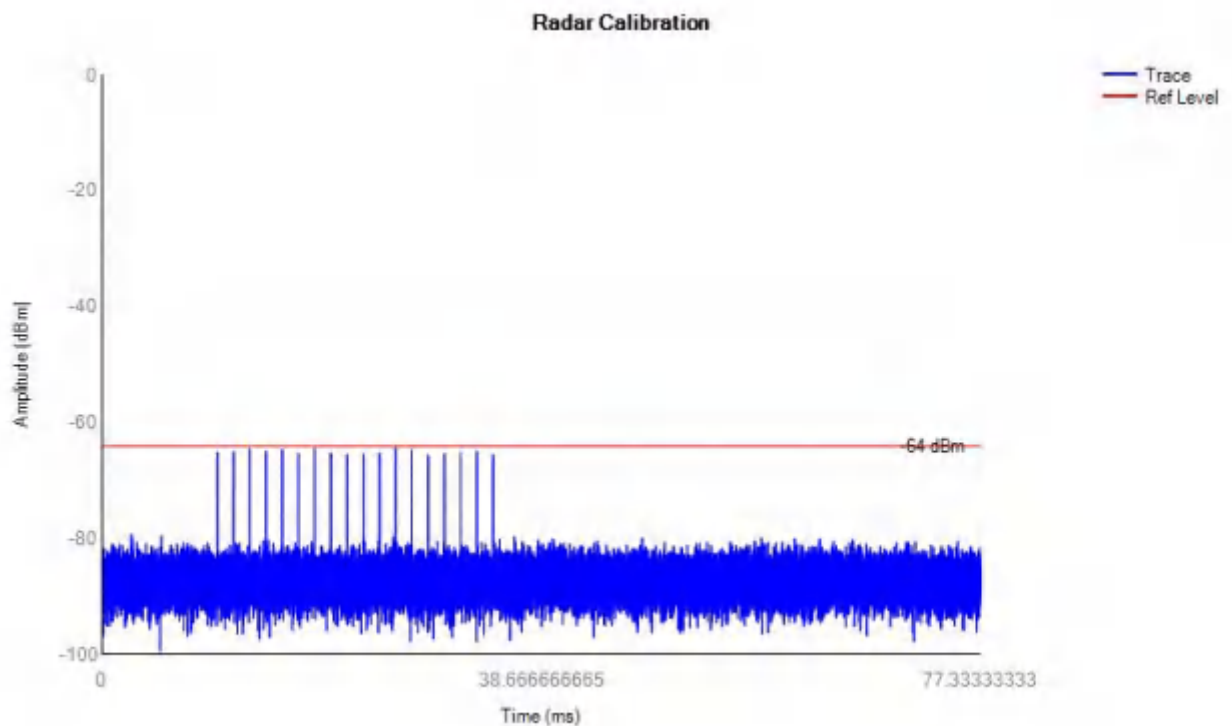


Test Graphs

5290MHz DFS_FCC_T0

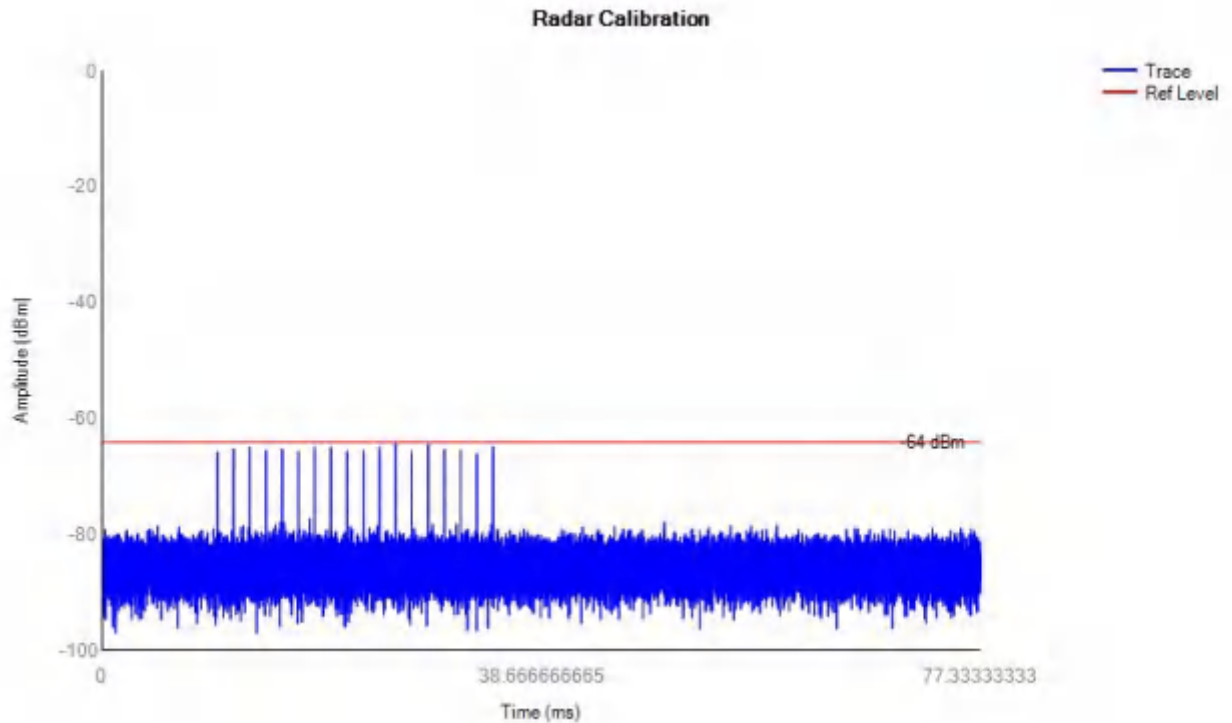


5320MHz DFS_FCC_T0

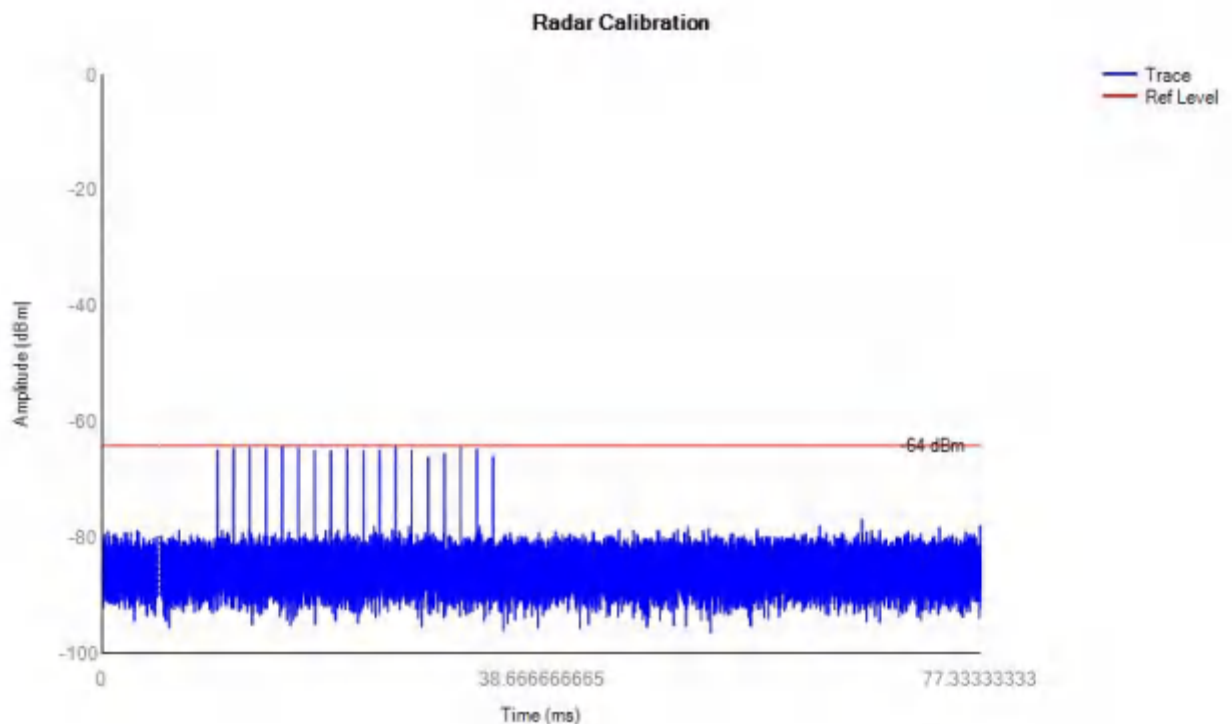




5600MHz DFS_FCC_T0

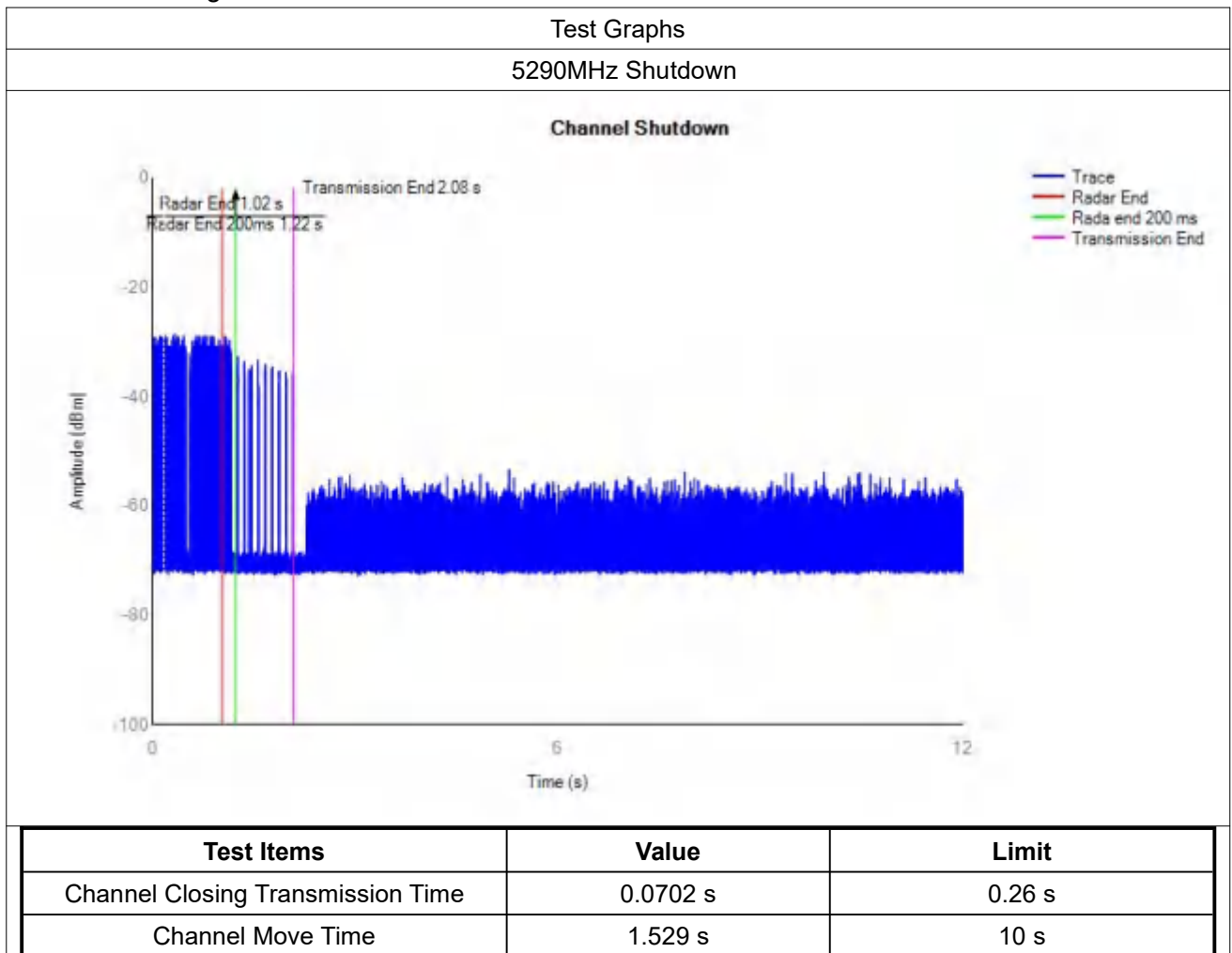


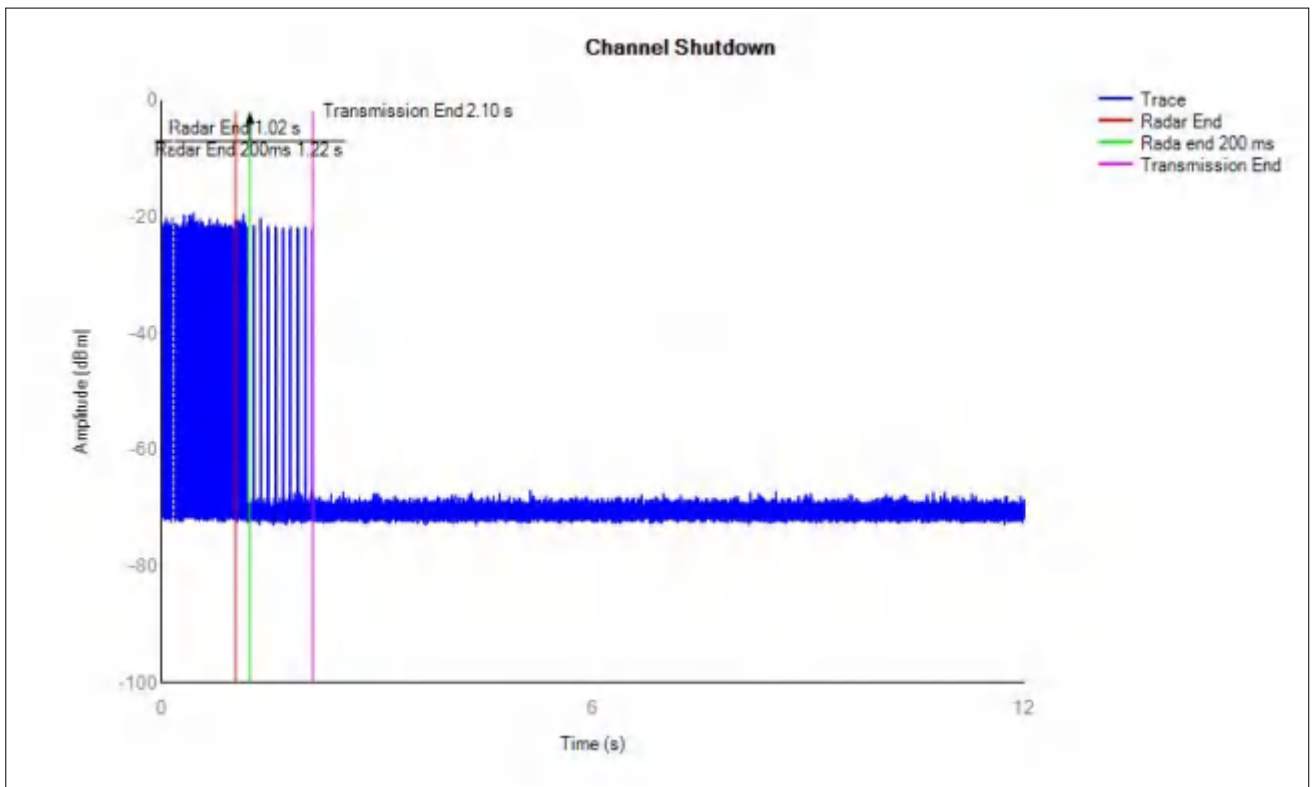
5610MHz DFS_FCC_T0



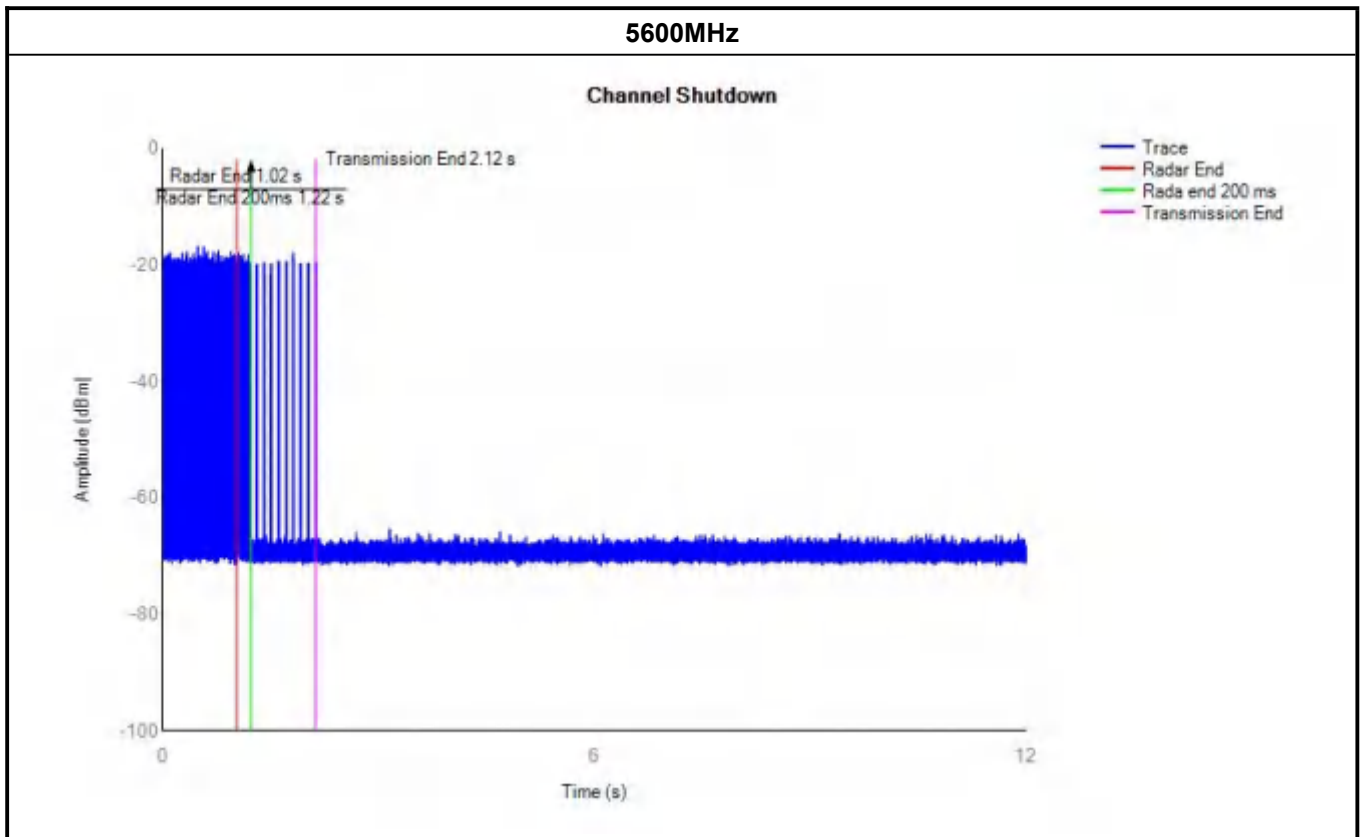


Channel Closing Transmission Time

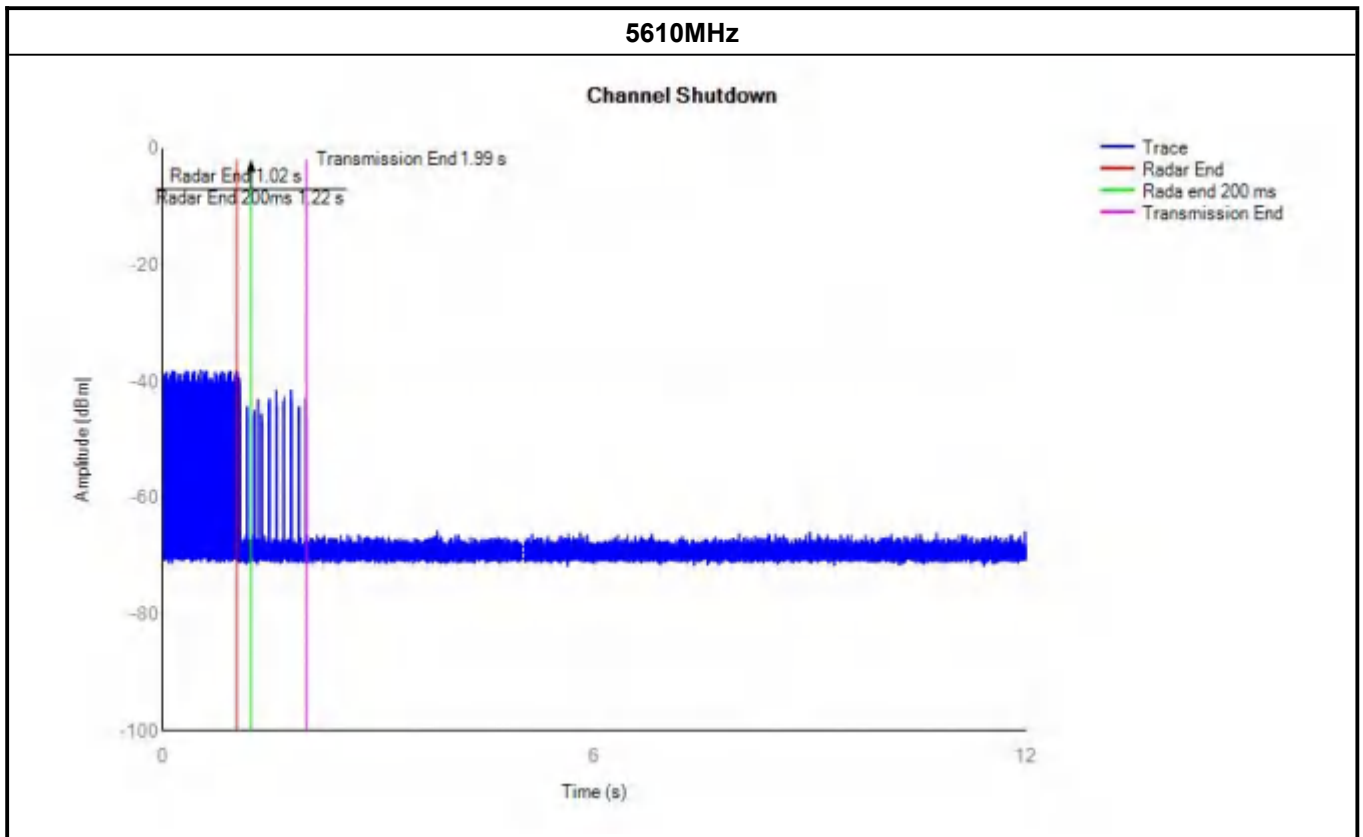




Test Items	Value	Limit
Channel Closing Transmission Time	0.0891 s	0.26 s
Channel Move Time	1.0739 s	10 s



Test Items	Value	Limit
Channel Closing Transmission Time	0.0945 s	0.26 s
Channel Move Time	1.1006 s	10 s



Test Items	Value	Limit
Channel Closing Transmission Time	0.0351 s	0.26 s
Channel Move Time	0.9671 s	10 s



Note: The signal above the noise floor after the radar signal ends is the signal which leaked from other channels that have been moved following the Master device.

A.7. Conducted Emission

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Set RBW=9kHz, VBW=30kHz. Refer to recorded points and plots below.

Note: Both of the test voltage AC 120V/60Hz and AC 230V/50Hz were considered and tested respectively, only the results of the worst case AC 120V/60Hz were recorded in this report.

A. Test Setup:

Test Mode: EUT+Adapter+DATA Cable+Earphone+WIFI TX

Test voltage: AC 120V/60Hz

The measurement results are obtained as below:

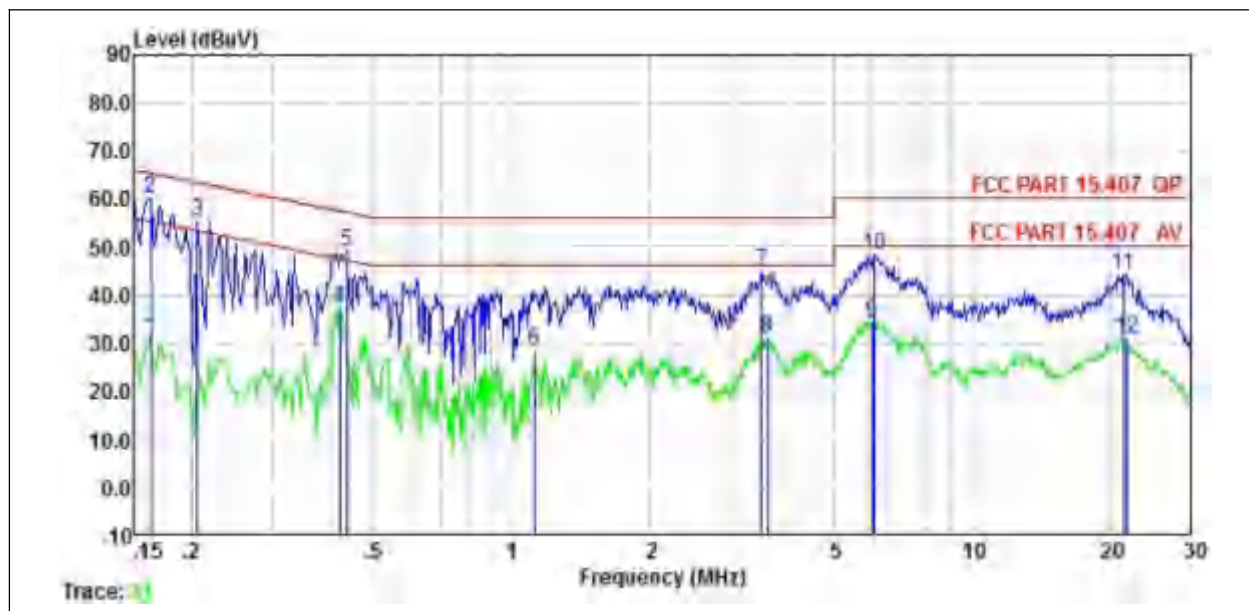
$E [dB\mu V] = U_R + L_{Cable\ loss} [dB] + A_{Factor}$

U_R : Receiver Reading

A_{Factor} : Voltage division factor of LISN

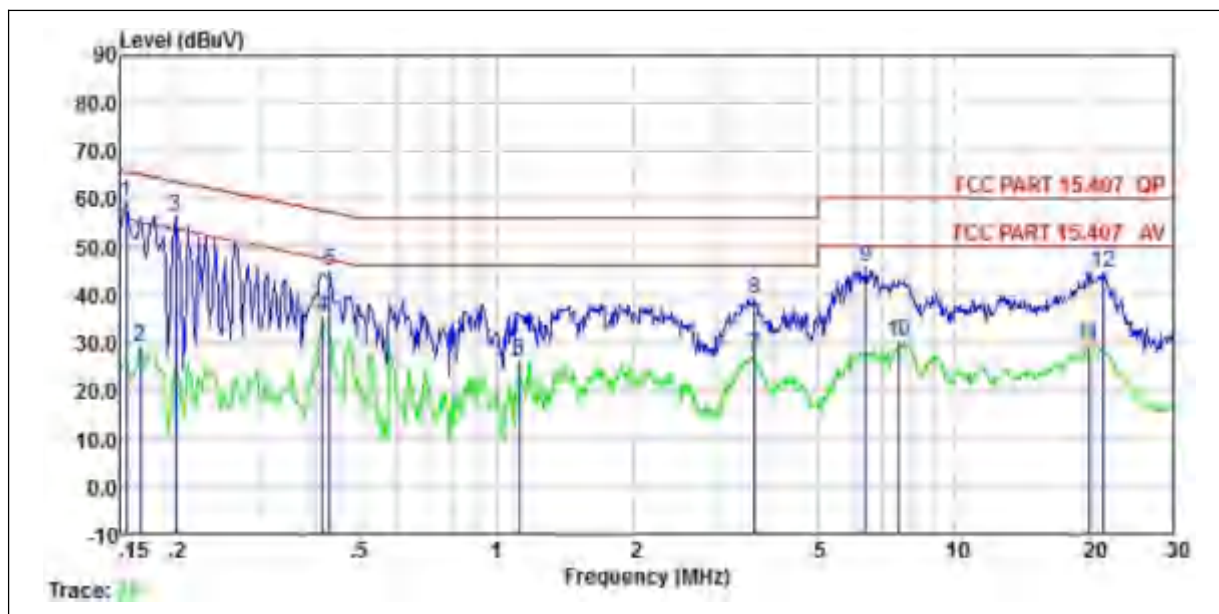


B. Test Plot:



(L Phase)

	Freq	Read Level	LISN Factor	Aux Factor	Aux2 Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dB	dBuV	dBuV	dB	
1	0.162	10.74	10.17	0.00	9.88	0.01	30.80	55.34	-24.54	Average
2	0.162	40.19	10.17	0.00	9.88	0.01	60.25	55.34	-5.09	QP
3	0.206	36.48	10.10	0.00	9.88	0.04	56.60	55.36	-7.86	QP
4	0.421	17.30	10.11	0.00	9.88	0.04	37.33	47.42	-10.09	Average
5	0.435	28.98	10.12	0.00	9.88	0.03	49.01	57.16	-8.14	QP
6	1.117	8.14	10.18	0.00	9.88	0.07	28.27	46.00	-17.73	Average
7	3.491	24.76	10.19	0.00	9.89	0.08	44.94	56.00	-11.06	QP
8	5.603	10.91	10.17	0.00	9.89	0.08	31.05	46.00	-14.95	Average
9	6.089	14.06	10.16	0.00	9.90	0.09	34.41	50.00	-15.59	Average
10	6.153	27.95	10.18	0.00	9.90	0.08	48.30	60.00	-11.70	QP
11	21.486	23.77	10.18	0.00	9.97	0.17	44.29	60.00	-15.71	QP
12	21.946	10.36	10.18	0.00	9.98	0.16	30.80	60.00	-29.12	Average



(N Phase)

	Freq	Read Level	LISM Factor	Aux Factor	Aux2 Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dB	dBuV	dBuV	dB	
1	0.154	39.29	10.20	0.00	9.88	0.01	59.58	65.78	-6.40	QP
2	0.166	8.95	10.20	0.00	9.88	0.01	29.04	65.78	-26.12	Average
3	0.198	36.25	10.20	0.00	9.88	0.04	58.37	63.71	-7.34	QP
4	0.415	15.30	10.12	0.00	9.88	0.04	35.43	47.55	-12.12	Average
5	0.431	24.80	10.14	0.00	9.88	0.03	44.85	57.24	-12.39	QP
6	1.117	6.03	10.22	0.00	9.88	0.07	26.20	48.00	-19.60	Average
7	3.661	7.00	10.20	0.00	9.89	0.08	27.17	46.00	-18.63	Average
8	3.661	18.84	10.20	0.00	9.89	0.08	39.01	56.00	-16.99	QP
9	6.386	25.31	10.27	0.00	9.80	0.09	45.57	60.00	-14.43	QP
10	7.606	9.85	10.30	0.00	9.90	0.10	30.15	60.00	-19.85	Average
11	19.635	8.40	10.60	0.00	9.96	0.15	29.11	60.00	-20.89	Average
12	21.147	23.94	10.59	0.00	9.97	0.17	44.67	60.00	-15.33	QP



A.8. Restricted Frequency Bands

Note 1: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (Horizontal) was recorded in this test report.

Note 2 All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

Above 1GHz

Band 1: 5150 MHz - 5250 MHz, 802.11a						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	37.16	20.12	57.28	74.00	16.72	Vertical
10360.00	45.99	1.40	47.39	68.20	20.81	Vertical
5150.00	38.96	20.12	59.08	74.00	14.92	Horizontal
10360.00	46.25	1.40	47.65	68.20	20.55	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	25.45	20.12	45.57	54.00	8.43	Vertical
5150.00	26.01	20.12	46.13	54.00	7.87	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
10400.00	45.63	2.45	48.08	68.20	20.12	Vertical
10400.00	46.00	2.45	48.45	68.20	19.75	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	36.85	19.93	56.78	74.00	17.22	Vertical
10480.00	45.72	2.74	48.46	68.20	19.74	Vertical



5350.00	35.54	19.93	55.47	74.00	18.53	Horizontal
10480.00	46.29	2.74	49.03	68.20	19.17	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	24.60	19.93	44.53	54.00	9.47	Vertical
5350.00	24.67	19.93	44.60	54.00	9.40	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

Band 1: 5150 MHz - 5250 MHz, 802.11n-HT20						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	36.55	20.12	56.67	74.00	17.33	Vertical
10360.00	45.54	1.40	46.94	68.20	21.26	Vertical
5150.00	38.43	20.12	58.55	74.00	15.45	Horizontal
10360.00	46.06	1.40	47.46	68.20	20.74	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	25.51	20.12	45.63	54.00	8.37	Vertical
5150.00	25.86	20.12	45.98	54.00	8.02	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
10400.00	45.68	2.45	48.13	68.20	20.07	Vertical
10400.00	45.95	2.45	48.40	68.20	19.80	Horizontal



Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	35.59	19.93	55.52	74.00	18.48	Vertical
10480.00	45.60	2.74	48.34	68.20	19.86	Vertical
5350.00	36.59	19.93	56.52	74.00	17.48	Horizontal
10480.00	46.11	2.74	48.85	68.20	19.35	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	24.51	19.93	44.44	54.00	9.56	Vertical
5350.00	24.56	19.93	44.49	54.00	9.51	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

Band 1: 5150 MHz - 5250 MHz, 802.11n-HT40						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	38.01	20.12	58.13	74.00	15.87	Vertical
10380.00	46.02	1.96	47.98	68.20	20.22	Vertical
5150.00	41.08	20.12	61.20	74.00	12.80	Horizontal
10380.00	45.89	1.96	47.85	68.20	20.35	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	25.78	20.12	45.90	54.00	8.10	Vertical
5150.00	26.29	20.12	46.41	54.00	7.59	Horizontal

**Test channel: Highest channel**

Detector: Peak Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	36.17	19.93	56.10	74.00	17.90	Vertical
10460.00	45.72	1.64	47.36	68.20	20.84	Vertical
5350.00	36.43	19.93	56.36	74.00	17.64	Horizontal
10460.00	46.13	1.64	47.77	68.20	20.43	Horizontal

Detector: Average Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	24.66	19.93	44.59	54.00	9.41	Vertical
5350.00	24.86	19.93	44.79	54.00	9.21	Horizontal

Remark:

1. Level = Reading + Factor.
2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.

Band 1: 5150 MHz - 5250 MHz, 802.11ac-VHT20**Test channel: Lowest channel**

Detector: Peak Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	35.45	20.12	55.57	74.00	18.43	Vertical
10360.00	45.61	1.40	47.01	68.20	21.19	Vertical
5150.00	38.42	20.12	58.54	74.00	15.46	Horizontal
10360.00	44.95	1.40	46.35	68.20	21.85	Horizontal

Detector: Average Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	25.17	20.12	45.29	54.00	8.71	Vertical
5150.00	25.98	20.12	46.10	54.00	7.90	Horizontal



Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
10400.00	45.43	2.45	47.88	68.20	20.32	Vertical
10400.00	45.50	2.45	47.95	68.20	20.25	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	35.16	19.93	55.09	74.00	18.91	Vertical
10480.00	44.52	2.74	47.26	68.20	20.94	Vertical
5350.00	36.33	19.93	56.26	74.00	17.74	Horizontal
10480.00	45.39	2.74	48.13	68.20	20.07	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	24.34	19.93	44.27	54.00	9.73	Vertical
5350.00	24.22	19.93	44.15	54.00	9.85	Horizontal
Remark: 1. <i>Level = Reading + Factor.</i> 2. <i>Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.</i>						

Band 1: 5150 MHz - 5250 MHz, 802.11ac-VHT40						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	36.84	20.12	56.96	74.00	17.04	Vertical
10380.00	44.90	1.96	46.86	68.20	21.34	Vertical
5150.00	40.44	20.12	60.56	74.00	13.44	Horizontal



10380.00	44.92	1.96	46.88	68.20	21.32	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	25.49	20.12	45.61	54.00	8.39	Vertical
5150.00	26.23	20.12	46.35	54.00	7.65	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	35.20	19.93	55.13	74.00	18.87	Vertical
10460.00	44.59	1.64	46.23	68.20	21.97	Vertical
5350.00	36.10	19.93	56.03	74.00	17.97	Horizontal
10460.00	45.27	1.64	46.91	68.20	21.29	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	24.23	19.93	44.16	54.00	9.84	Vertical
5350.00	24.47	19.93	44.40	54.00	9.60	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

Band 1: 5150 MHz - 5250 MHz, 802.11ac-VHT80						
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	39.20	20.12	59.32	74.00	14.68	Vertical
5350.00	36.02	19.93	55.95	74.00	18.05	Vertical
10420.00	45.54	1.92	47.46	68.20	20.74	Vertical



5150.00	41.42	20.12	61.54	74.00	12.46	Horizontal
5350.00	35.87	19.93	55.80	74.00	18.2	Horizontal
10420.00	46.31	1.92	48.23	68.20	19.97	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	26.93	20.12	47.05	54.00	6.95	Vertical
5350.00	24.89	19.93	44.82	54.00	9.18	Vertical
5150.00	28.23	20.12	48.35	54.00	5.65	Horizontal
5350.00	24.79	19.93	44.72	54.00	9.28	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

Band 2: 5250 MHz - 5350 MHz, 802.11a						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	36.66	20.12	56.78	74.00	17.22	Vertical
10520.00	47.55	2.93	50.48	68.20	17.72	Vertical
5150.00	36.98	20.12	57.10	74.00	16.90	Horizontal
10520.00	47.53	2.93	50.46	68.20	17.74	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	25.45	20.12	45.57	54.00	8.43	Vertical
5150.00	25.53	20.12	45.65	54.00	8.35	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization



10560.00	47.39	1.68	49.07	68.20	19.13	Vertical
10560.00	47.04	1.68	48.72	68.20	19.48	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	36.13	19.93	56.06	74.00	17.94	Vertical
10640.00	47.08	2.76	49.84	74.00	24.16	Vertical
5350.00	35.99	19.93	55.92	74.00	18.08	Horizontal
10640.00	47.43	2.76	50.19	74.00	23.81	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	24.74	19.93	44.67	54.00	9.33	Vertical
10640.00	36.71	2.76	39.47	54.00	14.53	Vertical
5350.00	25.09	19.93	45.02	54.00	8.98	Horizontal
10640.00	36.74	2.76	39.50	54.00	14.50	Horizontal
Remark:						
1. Level = Reading + Factor.						
2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

Band 2: 5250 MHz - 5350 MHz, 802.11n-HT20						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	36.90	20.12	57.02	74.00	16.98	Vertical
10520.00	47.14	2.93	50.07	68.20	18.13	Vertical
5150.00	37.01	20.12	57.13	74.00	16.87	Horizontal
10520.00	47.25	2.93	50.18	68.20	18.02	Horizontal
Detector: Average Value						



Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	25.29	20.12	45.41	54.00	8.59	Vertical
5150.00	25.48	20.12	45.60	54.00	8.40	Horizontal
Test channel: Middle channel Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
10560.00	47.13	1.68	48.81	68.20	19.39	Vertical
10560.00	47.17	1.68	48.85	68.20	19.35	Horizontal
Test channel: Highest channel Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	35.59	19.93	55.52	74.00	18.48	Vertical
10640.00	47.17	2.76	49.93	74.00	24.07	Vertical
5350.00	36.71	19.93	56.64	74.00	17.36	Horizontal
10640.00	47.62	2.76	50.38	74.00	23.62	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	24.73	19.93	44.66	54.00	9.34	Vertical
10640.00	36.54	2.76	39.30	54.00	14.70	Vertical
5350.00	25.22	19.93	45.15	54.00	8.85	Horizontal
10640.00	36.61	2.76	39.37	54.00	14.63	Horizontal
Remark: 1. <i>Level = Reading + Factor.</i> 2. <i>Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.</i>						



Band 2: 5250 MHz - 5350 MHz, 802.11n-HT40						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	36.45	20.12	56.57	74.00	17.43	Vertical
10540.00	47.67	2.06	49.73	68.20	18.47	Vertical
5150.00	36.90	20.12	57.02	74.00	16.98	Horizontal
10540.00	47.52	2.06	49.58	68.20	18.62	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	25.46	20.12	45.58	54.00	8.42	Vertical
5150.00	25.64	20.12	45.76	54.00	8.24	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	37.79	19.93	57.72	74.00	16.28	Vertical
10620.00	47.27	2.28	49.55	74.00	24.45	Vertical
5350.00	39.29	19.93	59.22	74.00	14.78	Horizontal
10620.00	47.06	2.28	49.34	74.00	24.66	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	25.51	19.93	45.44	54.00	8.56	Vertical
10620.00	36.69	2.28	38.97	54.00	15.03	Vertical
5350.00	26.09	19.93	46.02	54.00	7.98	Horizontal
10620.00	36.74	2.28	39.02	54.00	14.98	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not						



show in test report.

Band 2: 5250 MHz - 5350 MHz, 802.11ac-VHT20						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	35.76	20.12	55.88	74.00	18.12	Vertical
10520.00	46.98	2.93	49.91	68.20	18.29	Vertical
5150.00	36.97	20.12	57.09	74.00	16.91	Horizontal
10520.00	46.56	2.93	49.49	68.20	18.71	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	24.85	20.12	44.97	54.00	9.03	Vertical
5150.00	25.31	20.12	45.43	54.00	8.57	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
10560.00	46.64	1.68	48.32	68.20	19.88	Vertical
10560.00	47.15	1.68	48.83	68.20	19.37	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	35.02	19.93	54.95	74.00	19.05	Vertical
10640.00	46.17	2.76	48.93	74.00	25.07	Vertical
5350.00	36.48	19.93	56.41	74.00	17.59	Horizontal
10640.00	47.59	2.76	50.35	74.00	23.65	Horizontal
Detector: Average Value						



Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	24.34	19.93	44.27	54.00	9.73	Vertical
10640.00	35.81	2.76	38.57	54.00	15.43	Vertical
5350.00	24.10	19.93	44.03	54.00	9.97	Horizontal
10640.00	36.02	2.76	38.78	54.00	15.22	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

Band 2: 5250 MHz - 5350 MHz, 802.11ac-VHT40						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	35.66	20.12	55.78	74.00	18.22	Vertical
10540.00	47.05	2.06	49.11	68.20	19.09	Vertical
5150.00	36.71	20.12	56.83	74.00	17.17	Horizontal
10540.00	46.71	2.06	48.77	68.20	19.43	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	25.52	20.12	45.64	54.00	8.36	Vertical
5150.00	25.62	20.12	45.74	54.00	8.26	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	36.59	19.93	56.52	74.00	17.48	Vertical
10620.00	47.13	2.28	49.41	74.00	24.59	Vertical
5350.00	38.11	19.93	58.04	74.00	15.96	Horizontal



10620.00	46.74	2.28	49.02	74.00	24.98	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	25.01	19.93	44.94	54.00	9.06	Vertical
10620.00	35.55	2.28	37.83	54.00	16.17	Vertical
5350.00	25.98	19.93	45.91	54.00	8.09	Horizontal
10620.00	36.31	2.28	38.59	54.00	15.41	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

Band 2: 5250 MHz - 5350 MHz, 802.11ac-VHT80						
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	35.88	20.12	56.00	74.00	18	Vertical
5350.00	38.65	19.93	58.58	74.00	15.42	Vertical
10580.00	47.58	1.71	49.29	68.20	18.91	Vertical
5150.00	36.86	20.12	56.98	74.00	17.02	Horizontal
5350.00	40.40	19.93	60.33	74.00	13.67	Horizontal
10580.00	47.06	1.71	48.77	68.20	19.43	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	25.51	20.12	45.63	54.00	8.37	Vertical
5350.00	26.41	19.93	46.34	54.00	7.66	Vertical
5150.00	25.65	20.12	45.77	54.00	8.23	Horizontal
5350.00	27.14	19.93	47.07	54.00	6.93	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not						



show in test report.

Band 3: 5470 MHz - 5725 MHz, 802.11a						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5470.00	36.16	20.96	57.12	68.20	11.08	Vertical
11000.00	46.51	2.64	49.15	74.00	24.85	Vertical
5470.00	35.73	20.96	56.69	68.20	11.51	Horizontal
11000.00	47.67	2.64	50.31	74.00	23.69	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11000.00	36.86	2.64	39.50	54.00	14.50	Vertical
11000.00	37.01	2.64	39.65	54.00	14.35	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11120.00	46.29	1.72	48.01	74.00	25.99	Vertical
11120.00	47.58	1.72	49.30	74.00	24.70	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11120.00	36.45	1.72	38.17	54.00	15.83	Vertical
11120.00	36.94	1.72	38.66	54.00	15.34	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5725.00	39.06	21.29	60.35	68.20	7.85	Vertical



11400.00	46.02	1.96	47.98	74.00	26.02	Vertical
5725.00	37.60	21.29	58.89	68.20	9.31	Horizontal
11400.00	47.33	1.96	49.29	74.00	24.71	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11400.00	36.52	1.96	38.48	54.00	15.52	Vertical
11400.00	36.81	1.96	38.77	54.00	15.23	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

Band 3: 5470 MHz - 5725 MHz, 802.11n-HT20						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5470.00	36.15	20.96	57.11	68.20	11.09	Vertical
11000.00	46.60	2.64	49.24	74.00	24.76	Vertical
5470.00	35.93	20.96	56.89	68.20	11.31	Horizontal
11000.00	47.43	2.64	50.07	74.00	23.93	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11000.00	36.88	2.64	39.52	54.00	14.48	Vertical
11000.00	36.57	2.64	39.21	54.00	14.79	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11120.00	46.09	1.72	47.81	74.00	26.19	Vertical



11120.00	47.57	1.72	49.29	74.00	24.71	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11120.00	36.77	1.72	38.49	54.00	15.51	Vertical
11120.00	36.75	1.72	38.47	54.00	15.53	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5725.00	38.62	21.29	59.91	68.20	8.29	Vertical
11400.00	46.32	1.96	48.28	74.00	25.72	Vertical
5725.00	38.31	21.29	59.60	68.20	8.60	Horizontal
11400.00	47.19	1.96	49.15	74.00	24.85	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11400.00	36.92	1.96	38.88	54.00	15.12	Vertical
11400.00	36.54	1.96	38.50	54.00	15.50	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

Band 3: 5470 MHz - 5725 MHz, 802.11n-HT40						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5470.00	37.37	20.96	58.33	68.20	9.87	Vertical
11020.00	46.58	2.43	49.01	74.00	24.99	Vertical
5470.00	37.89	20.96	58.85	68.20	9.35	Horizontal



11020.00	47.34	2.43	49.77	74.00	24.23	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11020.00	36.73	2.43	39.16	54.00	14.84	Vertical
11020.00	36.58	2.43	39.01	54.00	14.99	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11180.00	46.40	2.19	48.59	74.00	25.41	Vertical
11180.00	47.71	2.19	49.90	74.00	24.10	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11180.00	36.54	2.19	38.73	54.00	15.27	Vertical
11180.00	36.60	2.19	38.79	54.00	15.21	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5725.00	37.17	21.29	58.46	68.20	9.74	Vertical
11340.00	46.11	3.58	49.69	74.00	24.31	Vertical
5725.00	36.50	21.29	57.79	68.20	10.41	Horizontal
11340.00	47.27	3.58	50.85	74.00	23.15	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11340.00	36.94	3.58	40.52	54.00	13.48	Vertical
11340.00	36.68	3.58	40.26	54.00	13.74	Horizontal
Remark:						
1. Level = Reading + Factor.						



2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.

Band 3: 5470 MHz - 5725 MHz, 802.11ac-VHT20						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5470.00	36.04	20.96	57.00	68.20	11.20	Vertical
11000.00	45.76	2.64	48.40	74.00	25.60	Vertical
5470.00	35.36	20.96	56.32	68.20	11.88	Horizontal
11000.00	46.49	2.64	49.13	74.00	24.87	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11000.00	36.72	2.64	39.36	54.00	14.64	Vertical
11000.00	36.98	2.64	39.62	54.00	14.38	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11120.00	46.22	1.72	47.94	74.00	26.06	Vertical
11120.00	47.38	1.72	49.10	74.00	24.90	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11120.00	36.56	1.72	38.28	54.00	15.72	Vertical
11120.00	37.10	1.72	38.82	54.00	15.18	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency	Read Level	Factor	Level	Limit	Margin	Polarization



(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5725.00	37.44	21.29	58.73	68.20	9.47	Vertical
11400.00	45.54	1.96	47.50	74.00	26.50	Vertical
5725.00	37.74	21.29	59.03	68.20	9.17	Horizontal
11400.00	46.48	1.96	48.44	74.00	25.56	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11400.00	36.80	1.96	38.76	54.00	15.24	Vertical
11400.00	36.57	1.96	38.53	54.00	15.47	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

Band 3: 5470 MHz - 5725 MHz, 802.11ac-VHT40						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5470.00	37.35	20.96	58.31	68.20	9.89	Vertical
11020.00	45.76	2.43	48.19	74.00	25.81	Vertical
5470.00	37.59	20.96	58.55	68.20	9.65	Horizontal
11020.00	46.57	2.43	49.00	74.00	25.00	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11020.00	36.79	2.43	39.22	54.00	14.78	Vertical
11020.00	36.56	2.43	38.99	54.00	15.01	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency	Read Level	Factor	Level	Limit	Margin	Polarization



(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
11180.00	46.40	2.19	48.59	74.00	25.41	Vertical
11180.00	47.23	2.19	49.42	74.00	24.58	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11180.00	36.74	2.19	38.93	54.00	15.07	Vertical
11180.00	36.69	2.19	38.88	54.00	15.12	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5725.00	36.69	21.29	57.98	68.20	10.22	Vertical
11340.00	45.70	3.58	49.28	74.00	24.72	Vertical
5725.00	35.54	21.29	56.83	68.20	11.37	Horizontal
11340.00	46.43	3.58	50.01	74.00	23.99	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11340.00	36.63	3.58	40.21	54.00	13.79	Vertical
11340.00	36.80	3.58	40.38	54.00	13.62	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						



Band 3: 5470 MHz - 5725 MHz, 802.11ac-VHT80						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5470.00	41.57	20.96	62.53	68.20	5.67	Vertical
11060.00	46.58	1.97	48.55	74.00	25.45	Vertical
5470.00	43.43	20.96	64.39	68.20	3.81	Horizontal
11060.00	47.52	1.97	49.49	74.00	24.51	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11060.00	36.46	1.97	38.43	54.00	15.57	Vertical
11060.00	36.93	1.97	38.90	54.00	15.1	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5725.00	35.87	21.29	57.16	68.20	11.04	Vertical
11220.00	46.45	3.01	49.46	74.00	24.54	Vertical
5725.00	36.24	21.29	57.53	68.20	10.67	Horizontal
11220.00	47.38	3.01	50.39	74.00	23.61	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11220.00	36.95	3.01	39.96	54.00	14.04	Vertical
11220.00	37.00	3.01	40.01	54.00	13.99	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						



Band 4: 5725 MHz - 5825 MHz, 802.11a						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5650.00	35.14	20.81	55.95	68.20	12.25	Vertical
5700.00	36.75	21.58	58.33	105.20	46.87	Vertical
5720.00	36.99	21.35	58.34	110.80	52.46	Vertical
5725.00	40.02	21.29	61.31	122.20	60.89	Vertical
11490.00	46.16	2.44	48.60	74.00	25.40	Vertical
5650.00	35.41	20.81	56.22	68.20	11.98	Horizontal
5700.00	35.92	21.58	57.50	105.20	47.70	Horizontal
5720.00	36.96	21.35	58.31	110.80	52.49	Horizontal
5725.00	39.47	21.29	60.76	122.20	61.44	Horizontal
11490.00	46.65	2.44	49.09	74.00	24.91	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11490.00	36.52	2.44	38.96	54.00	15.04	Vertical
11490.00	36.80	2.44	39.24	54.00	14.76	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11570.00	46.29	2.74	49.03	74.00	24.97	Vertical
11570.00	46.36	2.74	49.10	74.00	24.90	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11570.00	36.16	2.74	38.90	54.00	15.10	Vertical
11570.00	36.72	2.74	39.46	54.00	14.54	Horizontal
Remark:						



1. *Level = Reading + Factor.*
2. *Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.*

Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5850.00	36.50	21.10	57.60	122.20	64.60	Vertical
5855.00	35.76	21.15	56.91	110.80	53.89	Vertical
5875.00	36.37	21.36	57.73	105.20	47.47	Vertical
5925.00	36.22	21.70	57.92	68.20	10.28	Vertical
11650.00	46.29	2.00	48.29	74.00	25.71	Vertical
5850.00	41.22	21.10	62.32	122.20	59.88	Horizontal
5855.00	36.13	21.15	57.28	110.80	53.52	Horizontal
5875.00	35.76	21.36	57.12	105.20	48.08	Horizontal
5925.00	35.28	21.70	56.98	68.20	11.22	Horizontal
11650.00	46.57	2.00	48.57	74.00	25.43	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11650.00	36.16	2.00	38.16	54.00	15.84	Vertical
11650.00	36.72	2.00	38.72	54.00	15.28	Horizontal
Remark:						
1. <i>Level = Reading + Factor.</i>						
2. <i>Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.</i>						



Band 4: 5725 MHz - 5825 MHz, 802.11n-HT20						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5650.00	35.24	20.81	56.05	68.20	12.15	Vertical
5700.00	36.84	21.58	58.42	105.20	46.78	Vertical
5720.00	36.69	21.35	58.04	110.80	52.76	Vertical
5725.00	40.15	21.29	61.44	122.20	60.76	Vertical
11490.00	46.01	2.44	48.45	74.00	25.55	Vertical
5650.00	35.13	20.81	55.94	68.20	12.26	Horizontal
5700.00	35.66	21.58	57.24	105.20	47.96	Horizontal
5720.00	37.10	21.35	58.45	110.80	52.35	Horizontal
5725.00	39.42	21.29	60.71	122.20	61.49	Horizontal
11490.00	46.35	2.44	48.79	74.00	25.21	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11490.00	36.16	2.44	38.60	54.00	15.40	Vertical
11490.00	36.72	2.44	39.16	54.00	14.84	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11570.00	46.19	2.74	48.93	74.00	25.07	Vertical
11570.00	45.89	2.74	48.63	74.00	25.37	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11570.00	36.16	2.74	38.90	54.00	15.10	Vertical
11570.00	36.72	2.74	39.46	54.00	14.54	Horizontal
Remark:						



1. *Level = Reading + Factor.*
2. *Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.*

Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5850.00	36.42	21.10	57.52	122.20	64.68	Vertical
5855.00	36.02	21.15	57.17	110.80	53.63	Vertical
5875.00	36.55	21.36	57.91	105.20	47.29	Vertical
5925.00	36.02	21.70	57.72	68.20	10.48	Vertical
11650.00	46.55	2.00	48.55	74.00	25.45	Vertical
5850.00	41.03	21.10	62.13	122.20	60.07	Horizontal
5855.00	36.34	21.15	57.49	110.80	53.31	Horizontal
5875.00	35.86	21.36	57.22	105.20	47.98	Horizontal
5925.00	35.45	21.70	57.15	68.20	11.05	Horizontal
11650.00	46.32	2.00	48.32	74.00	25.68	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11650.00	36.16	2.00	38.16	54.00	15.84	Vertical
11650.00	36.72	2.00	38.72	54.00	15.28	Horizontal
Remark: 1. <i>Level = Reading + Factor.</i> 2. <i>Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.</i>						



Band 4: 5725 MHz - 5825 MHz, 802.11n-HT40						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5650.00	35.55	20.81	56.36	68.20	11.84	Vertical
5700.00	36.35	21.58	57.93	105.20	47.27	Vertical
5720.00	38.41	21.35	59.76	110.80	51.04	Vertical
5725.00	41.14	21.29	62.43	122.20	59.77	Vertical
11510.00	46.41	2.60	49.01	74.00	24.99	Vertical
5650.00	35.77	20.81	56.58	68.20	11.62	Horizontal
5700.00	36.02	21.58	57.60	105.20	47.60	Horizontal
5720.00	37.00	21.35	58.35	110.80	52.45	Horizontal
5725.00	41.17	21.29	62.46	122.20	59.74	Horizontal
11510.00	46.26	2.60	48.86	74.00	25.14	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11510.00	36.16	2.60	38.76	54.00	15.24	Vertical
11510.00	36.72	2.60	39.32	54.00	14.68	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5850.00	37.43	21.10	58.53	122.20	63.67	Vertical
5855.00	35.79	21.15	56.94	110.80	53.86	Vertical
5875.00	35.54	21.36	56.90	105.20	48.30	Vertical
5925.00	35.20	21.70	56.90	68.20	11.30	Vertical
11590.00	46.30	2.73	49.03	74.00	24.97	Vertical
5850.00	35.79	21.10	56.89	122.20	65.31	Horizontal
5855.00	35.62	21.15	56.77	110.80	54.03	Horizontal
5875.00	35.22	21.36	56.58	105.20	48.62	Horizontal



5925.00	35.49	21.70	57.19	68.20	11.01	Horizontal
11590.00	45.95	2.73	48.68	74.00	25.32	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11590.00	36.29	2.73	39.02	54.00	14.98	Vertical
11590.00	36.54	2.73	39.27	54.00	14.73	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

Band 4: 5725 MHz - 5825 MHz, 8802.11ac-VHT20						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5650.00	36.12	20.81	56.93	68.20	11.27	Vertical
5700.00	36.51	21.58	58.09	105.20	47.11	Vertical
5720.00	37.02	21.35	58.37	110.80	52.43	Vertical
5725.00	41.92	21.29	63.21	122.20	58.99	Vertical
11490.00	46.02	2.44	48.46	74.00	25.54	Vertical
5650.00	36.18	20.81	56.99	68.20	11.21	Horizontal
5700.00	36.34	21.58	57.92	105.20	47.28	Horizontal
5720.00	39.55	21.35	60.90	110.80	49.90	Horizontal
5725.00	42.43	21.29	63.72	122.20	58.48	Horizontal
11490.00	46.94	2.44	49.38	74.00	24.62	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11490.00	36.16	2.44	38.60	54.00	15.40	Vertical
11490.00	36.72	2.44	39.16	54.00	14.84	Horizontal



Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11570.00	46.19	2.74	48.93	74.00	25.07	Vertical
11570.00	45.89	2.74	48.63	74.00	25.37	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11570.00	36.16	2.74	38.90	54.00	15.10	Vertical
11570.00	36.72	2.74	39.46	54.00	14.54	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5850.00	36.82	21.10	57.92	122.20	64.28	Vertical
5855.00	37.17	21.15	58.32	110.80	52.48	Vertical
5875.00	36.01	21.36	57.37	105.20	47.83	Vertical
5925.00	34.83	21.70	56.53	68.20	11.67	Vertical
11650.00	46.29	2.00	48.29	74.00	25.71	Vertical
5850.00	38.14	21.10	59.24	122.20	62.96	Horizontal
5855.00	37.11	21.15	58.26	110.80	52.54	Horizontal
5875.00	35.62	21.36	56.98	105.20	48.22	Horizontal
5925.00	35.82	21.70	57.52	68.20	10.68	Horizontal
11650.00	45.93	2.00	47.93	74.00	26.07	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization



11650.00	36.16	2.00	38.16	54.00	15.84	Vertical
11650.00	36.72	2.00	38.72	54.00	15.28	Horizontal
Remark: 1. <i>Level = Reading + Factor.</i> 2. <i>Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.</i>						

Band 4: 5725 MHz - 5825 MHz, 802.11ac-VHT40						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5650.00	35.47	20.81	56.28	68.20	11.92	Vertical
5700.00	36.62	21.58	58.20	105.20	47.00	Vertical
5720.00	38.59	21.35	59.94	110.80	50.86	Vertical
5725.00	40.94	21.29	62.23	122.20	59.97	Vertical
11510.00	46.23	2.60	48.83	74.00	25.17	Vertical
5650.00	35.54	20.81	56.35	68.20	11.85	Horizontal
5700.00	35.76	21.58	57.34	105.20	47.86	Horizontal
5720.00	37.01	21.35	58.36	110.80	52.44	Horizontal
5725.00	41.24	21.29	62.53	122.20	59.67	Horizontal
11510.00	46.32	2.60	48.92	74.00	25.08	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11510.00	36.19	2.60	38.79	54.00	15.21	Vertical
11510.00	36.64	2.60	39.24	54.00	14.76	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5850.00	37.15	21.10	58.25	122.20	63.95	Vertical



5855.00	35.53	21.15	56.68	110.80	54.12	Vertical
5875.00	35.69	21.36	57.05	105.20	48.15	Vertical
5925.00	35.42	21.70	57.12	68.20	11.08	Vertical
11590.00	46.28	2.73	49.01	74.00	24.99	Vertical
5850.00	35.82	21.10	56.92	122.20	65.28	Horizontal
5855.00	35.65	21.15	56.80	110.80	54.00	Horizontal
5875.00	35.40	21.36	56.76	105.20	48.44	Horizontal
5925.00	35.69	21.70	57.39	68.20	10.81	Horizontal
11590.00	45.80	2.73	48.53	74.00	25.47	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11590.00	36.28	2.73	39.01	54.00	14.99	Vertical
11590.00	36.67	2.73	39.40	54.00	14.60	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

Band 4: 5725 MHz - 5825 MHz, 802.11ac-VHT80						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5650.00	36.29	20.81	57.10	68.20	11.10	Vertical
5700.00	39.14	21.58	60.72	105.20	44.48	Vertical
5720.00	38.76	21.35	60.11	110.80	50.69	Vertical
5725.00	40.75	21.29	62.04	122.20	60.16	Vertical
5850.00	37.43	21.10	58.53	122.20	63.67	Vertical
5855.00	36.02	21.15	57.17	110.80	53.63	Vertical
5875.00	35.25	21.36	56.61	105.20	48.59	Vertical
5925.00	35.67	21.70	57.37	68.20	10.83	Vertical
11550.00	46.26	2.74	49.00	74.00	25.00	Vertical



5650.00	35.77	20.81	56.58	68.20	11.62	Horizontal
5700.00	37.30	21.58	58.88	105.20	46.32	Horizontal
5720.00	42.11	21.35	63.46	110.80	47.34	Horizontal
5725.00	39.40	21.29	60.69	122.20	61.51	Horizontal
5850.00	37.16	21.10	58.26	122.20	63.94	Horizontal
5855.00	39.31	21.15	60.46	110.80	50.34	Horizontal
5875.00	35.19	21.36	56.55	105.20	48.65	Horizontal
5925.00	36.40	21.70	58.10	68.20	10.10	Horizontal
11550.00	46.07	2.74	48.81	74.00	25.19	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11550.00	36.12	2.74	38.86	54.00	15.14	Vertical
11550.00	36.83	2.74	39.57	54.00	14.43	Horizontal
Remark: 1. Level = Reading + Factor. 2. Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

A.9. Radiated Emission

According to ANSI C63.10, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak (or average) limit, it is unnecessary to perform an quasi-peak measurement (or average).

The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V/m]} = U_R + A_T + A_{\text{Factor}} \text{ [dB]}; A_T = L_{\text{Cable loss}} \text{ [dB]} - G_{\text{preamp}} \text{ [dB]}$$

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

During the test, the total correction Factor A_T and A_{Factor} were built in test software.

Note1: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result



REPORT No.: SZ25090313W03

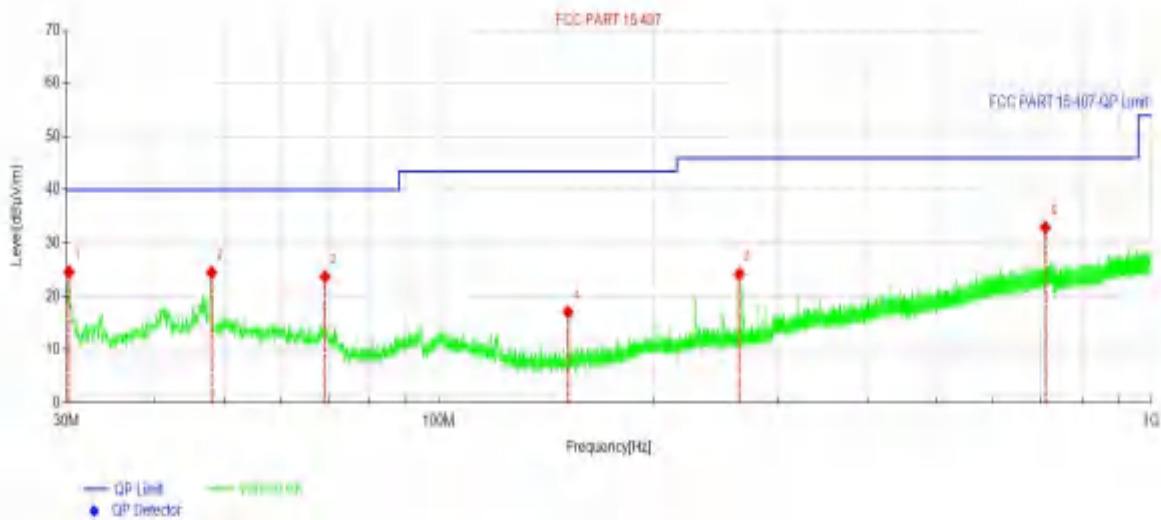
which was 20dB lower than the limit was not recorded.

Note3: For the frequency, which started from 18GHz to 40GHz harmonic of the highest frequency, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note 4: All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.



Product Name:	Tablet	Product Model:	XL100
Test By:	Gao Jianrou	Test mode:	5G Wi-Fi mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	DC 3.8V		



Suspected Data List

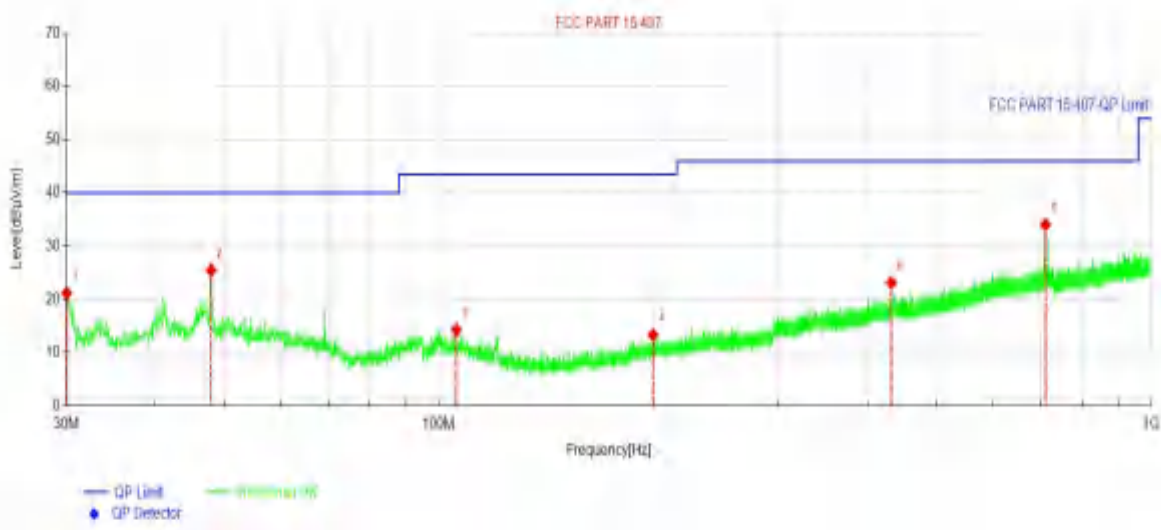
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	30.2910	39.91	-15.34	24.57	40.00	15.43	PK	Vertical
2	47.9944	36.87	-12.42	24.45	40.00	15.55	PK	Vertical
3	69.2385	39.97	-16.26	23.71	40.00	16.29	PK	Vertical
4	151.935	34.98	-17.93	17.05	43.50	26.45	PK	Vertical
5	264.363	37.51	-13.34	24.17	46.00	21.83	PK	Vertical
6	710.925	37.89	-4.96	32.93	46.00	13.07	PK	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).



Product Name:	Tablet	Product Model:	XL100
Test By:	Gao Jianrou	Test mode:	5G Wi-Fi mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	DC 3.8V		



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Trace	Polarity
1	30.0485	36.43	-15.27	21.16	40.00	18.84	PK	Horizontal
2	47.9459	37.88	-12.42	25.46	40.00	14.54	PK	Horizontal
3	105.906	28.54	-14.30	14.24	43.50	29.26	PK	Horizontal
4	200.001	28.30	-15.00	13.30	43.50	30.20	PK	Horizontal
5	432.085	33.00	-9.87	23.13	46.00	22.87	PK	Horizontal
6	710.974	38.97	-4.95	34.02	46.00	11.98	PK	Horizontal

Remark:
1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

————— END OF REPORT —————