



427 West 12800 South  
 Draper, UT 84020

## Test Report Certification

<b>FCC ID</b>	SWX-U6PLR
<b>ISED ID</b>	6545A-U6PLR
<b>Equipment Under Test</b>	U6+LR
<b>Test Report Serial Number</b>	TR7538_04
<b>Date of Tests</b>	August 28 through October 5, 2022
<b>Report Issue Date</b>	October 25, 2022

Test Specification	Applicant
47 CFR FCC Part 15, Subpart E RSS-GEN Issue 5	Ubiquiti Inc. 685 Third Avenue New York, NY 10017 U.S.A.



NVLAP LAB CODE 600241-0

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## Certification of Engineering Report

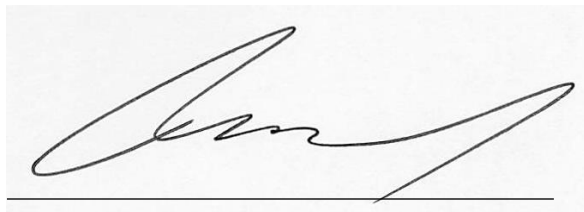
This report has been prepared by Unified Compliance Laboratory (UCL) to document compliance of the device described below with the requirement of Federal Communication Commissions (FCC) Part 15, Subpart E. This report may be reproduced in full. Partial reproduction of this report may only be made with the written consent of the laboratory. The results in this report apply only to the sample tested.

<b>Applicant</b>	Ubiquiti Inc.
<b>Manufacturer</b>	Ubiquiti Inc.
<b>Brand Name</b>	UniFi
<b>Model Number</b>	U6+LR
<b>FCC ID</b>	SWX-U6PLR
<b>ISED ID</b>	6545A-U6PLR

On this 25<sup>th</sup> day of October 2022, I individually and for Unified Compliance Laboratory certify that the statements made in this engineering report are true, complete, and correct to the best of my knowledge and are made in good faith.

Although NVLAP has accredited the Unified Compliance Laboratory testing facilities, this report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the U.S. federal government.

Unified Compliance Laboratory



Written By: Clay Allred



Reviewed By: Joseph W. Jackson

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<b>Revision History</b>		
<b>Revision</b>	<b>Description</b>	<b>Date</b>
01	Original Report Release	13 October 2022
02	Added MRA number and beamforming information	14 October 2022
03	Further details added on beamforming gain.	17 October 17, 2022
04	Further details added on beamforming gain.	24 October 2022

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# 1 Client Information

## 1.1 Applicant

<b>Company</b>	Ubiquiti Inc. 685 Third Avenue New York, NY 10017 U.S.A.
<b>Contact Name</b>	Alex Macon
<b>Title</b>	Compliance

## 1.2 Manufacturer

<b>Company</b>	Ubiquiti Inc. 685 Third Avenue New York, NY 10017 U.S.A.
<b>Contact Name</b>	Alex Macon
<b>Title</b>	Compliance

## 2 Equipment Under Test (EUT)

### 2.1 Identification of EUT

<b>Brand Name</b>	UniFi
<b>Model Number</b>	U6+LR
<b>Serial Number</b>	N/A
<b>Dimensions (cm)</b>	17.6 x 17.6 x 0.43

### 2.2 Description of EUT

The U6+LR is a Wi-Fi 6 access point designed for long range wireless coverage while maintaining overall network capacity. It delivers an aggregate radio rate of up to 1.5 Gbps with 5 GHz (3x3 MU-MIMO and OFDMA) and 2.4 GHz (2x2 MIMO) radios. U6+LR uses a sophisticated antenna design with sideways amplification to offer excellent range when mounted horizontally. U6+LR combines its purpose-built antenna with powerful Wi-Fi 6 features like OFDMA, beamforming, and BSS coloring for reliable long-range wireless performance.

Band	WiFi Mode	Modulation Bandwidth	Modulation Type	Frequency (MHz)
UNII-1	a	20 MHz	OFDM	5180, 5200, 5210, 5240
	n	20 MHz	HT	5180, 5200, 5210, 5240
	n	40 MHz	HT	5190, 5230
	ac	20 MHz	VHT	5180, 5200, 5210, 5240
	ac	40 MHz	VHT	5190, 5230
	ac	80 MHz	VHT	5210
	ax	20 MHz	HE	5180, 5200, 5210, 5240
	ax	40 MHz	HE	5190, 5230
	ax	80 MHz	HE	5210

This report covers the circuitry of the device subject to FCC Part 15, Subpart E. The circuitry of the device subject to FCC Part 15 Subpart B was found to be compliant and is covered under a separate Unified Compliance Laboratory test report.

## 2.3 EUT and Support Equipment

The EUT and support equipment used during the test are listed below.

<b>Brand Name Model Number Serial Number</b>	<b>Description</b>	<b>Name of Interface Ports / Interface Cables</b>
BN: UniFi MN: U6+ (Note 1) SN: N/A	Wireless Access Point	See Section 2.4
BN: Ubiquiti, Inc. MN: U-POE-at SN: N/A	PoE Injector Power Supply	Shielded or Un-shielded Cat 5e cable (Note 2)
BN: Dell MN: XPS 13 SN: N/A	Laptop Computer	Shielded or Un-shielded Cat 5e cable (Note 2)

Notes: (1) EUT

(2) Interface port connected to EUT (See Section 2.4)

The support equipment listed above was not modified in order to achieve compliance with this standard.

## 2.4 Interface Ports on EUT

<b>Name of Ports</b>	<b>No. of Ports Fitted to EUT</b>	<b>Cable Description/Length</b>
Ethernet/PoE	1	Shielded or Un-shielded Cat 5e cable

## 2.5 Operating Environment

<b>Power Supply</b>	120 Volts AC to 48 Volts PoE
<b>AC Mains Frequency</b>	60 Hz
<b>Temperature</b>	22.1-22.8 °C
<b>Humidity</b>	19.3-23.9 %
<b>Barometric Pressure</b>	1009 mBar

## 2.6 Operating Modes

The U6+ was tested using test software in order to enable a constant transmission. The measurements within this report are corrected to reference a 100% duty cycle. All emission modes of 802.11 ax, a, ac and n were investigated.

## 2.7 EUT Exercise Software

EUT firmware version 1.0 was used to operate the transmitter using a constant transmit mode.

## 2.8 Block Diagram of Test Configuration

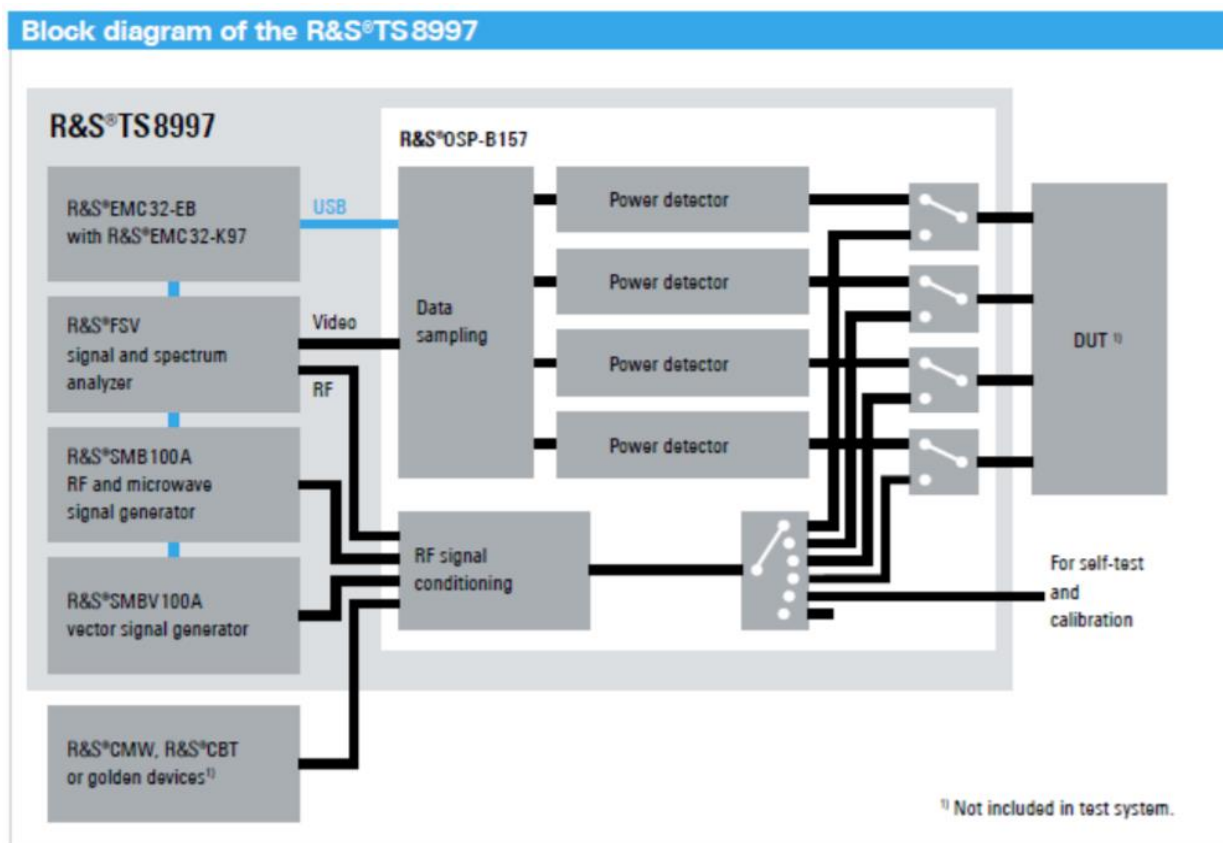


Diagram 1: Test Configuration Block Diagram

## 2.9 Modification Incorporated/Special Accessories on EUT

There were no modifications made to the EUT during testing to comply with the specification.

## 2.10 Deviation, Opinions Additional Information or Interpretations from Test Standard

There were no deviations, opinions, additional information or interpretations from the test specification.



## 3 Test Specification, Method and Procedures

### 3.1 Test Specification

<b>Title</b>	-47 CFR FCC Part 15, Subpart E, Section 15.407 Limits and methods of measurement of radio interference characteristics of Unlicensed National Information Infrastructure Devices -RSS-Gen, issue 5, General Requirements for Compliance of Radio Apparatus -RSS-247, Issue Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSs) and License-Exempt Local Area Network (LE-LAN) Devices
<b>Purpose of Test</b>	The tests were performed to demonstrate initial compliance

### 3.2 Methods & Procedures

#### 3.2.1 47 CFR FCC Part 15 Section 15.407 / RSS-247 Section 5

See test standard for details.

### 3.3 FCC Part 15, Subpart E / RSS-GEN / RSS-247

#### 3.3.1 Summary of Tests

FCC Section	ISED Section	Environmental Phenomena	Frequency Range (MHZ)	Result
15.407(a)	N/A	Antenna requirements	Structural Requirement	Compliant
15.407(b)	RSS-Gen	Conducted Disturbance at Mains Port	0.15 to 30	N/A
15.407(c)	RSS-247 §6.2.2, §6.2.3	Bandwidth Requirement	5165 to 5240	Compliant
15.407(e)	RSS-247 §6.2.2, §6.2.3	Peak Output Power	5165 to 5240	Compliant
15.407(f)	RSS-247 §6.2.2, §6.2.3	Antenna Conducted Spurious Emissions	0.009 to 40000	N/A
15.407(g)	RSS-247 §6.2.2, §6.2.3	Radiated Spurious Emissions	30 to 40000	Compliant
15.407(h)	RSS-247 §6.2.2, §6.2.3	Peak Power Spectral Density	5165 to 5240	Compliant

The testing was performed according to the procedures in ANSI C63.10-2013, KDB 789033 and 47 CFR Part 15. Where applicable, KDB 662911 was followed to sum required measurements.

### **3.4 Results**

In the configuration tested, the EUT complied with the requirements of the specification.

### **3.5 Test Location**

Testing was performed at the Unified Compliance Laboratory 3-meter and 10-meter chambers located at 427 West 12800 South, Draper, UT 84020. Unified Compliance Laboratory is accredited by National Voluntary Laboratory Accreditation Program (NVLAP); NVLAP Code 600241-0. This site has also been registered with Innovations, Science and Economic Development (ISED) department as was accepted under Appendix B, Phase 1 procedures of the APEC Tel MRA for Canadian recognition. ISED No.: 25346. Unified Compliance Laboratory has been assigned Conformity Assessment Number US0223 by ISED and has registered MRA Test Site number US5037.

## 4 Test Equipment

### 4.1 Direct Connect at the Antenna Port Tests

Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
Spectrum Analyzer	R&S	FSV40	UCL-2861	1/03/2022	1/03/2023
Signal Generator	R&S	SMB100A	UCL-2864	N/A	N/A
Vector Signal Generator	R&S	SMBV100A	UCL-2873	N/A	N/A
Switch Extension	R&S	OSP-B157WX	UCL-2867	1/03/2022	1/03/2023
Switch Extension	R&S	OSP-150W	UCL-2870	1/03/2022	1/03/2023

Table 1: List of equipment used for Direct Connect at the Antenna Port

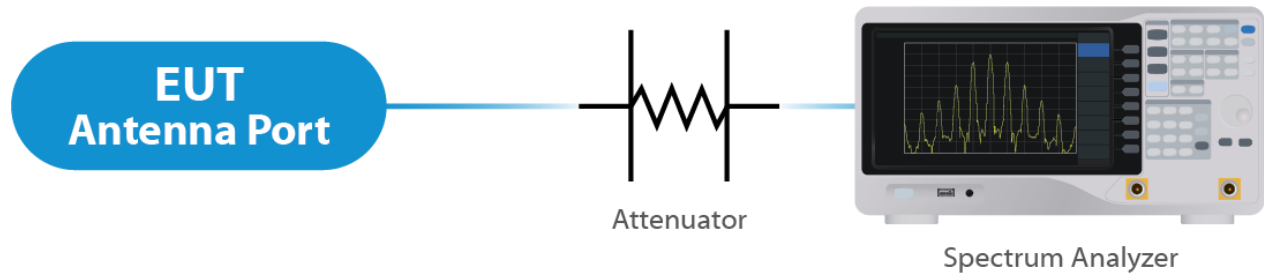


Figure 1: Direct Connect at the Antenna Port Test



Figure 2: Output Power Measurement

## 4.2 Radiated Emissions

Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
EMI Receiver	Keysight	N9038A	UCL-2778	1/4/2022	1/4/2023
Pre-Amplifier 9 kHz – 1 GHz	Sonoma Instruments	310N	UCL-2889	10/7/2021	11/7/2022
Broadband Antenna	Scwarzbeck	VULB 9163	UCL-3062	9/13/2022	9/13/2024
Broadband Antenna	Scwarzbeck	VULB 9163	UCL-3071	6/08/2022	6/22/2024
Double Ridge Horn Antenna	Scwarzbeck	BBHA 9120D	UCL-3065	9/22/2022	9/22/2024
Log Periodic	Scwarzbeck	STLP 9129	UCL-3068	11/16/2020	11/16/2022
15 - 40 GHz Horn Antenna	Scwarzbeck	BBHA 9170	UCL-2487	6/09/2022	6/09/2024
1 – 18 GHz Amplifier	Com-Power	PAM 118A	UCL-3833	10/7/2021	11/7/2022
Test Software	UCL	Revision 1	UCL-3108	N/A	N/A

Table 2: List of equipment used for Radiated Emissions

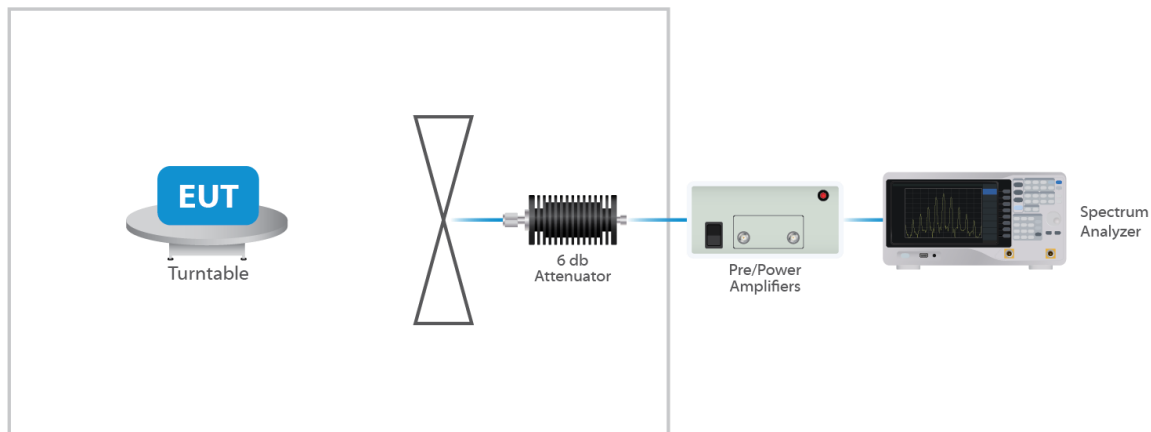


Figure 3: Radiated Emissions Test

## 4.3 Equipment Calibration

All applicable equipment is calibrated using either an independent calibration laboratory or Unified Compliance Laboratory personnel at intervals defined in ANSI C63.4:2014 following outlined calibration procedures. All measurement instrumentation is traceable to the National Institute of Standards and Technology (NIST). Supporting documentation relative to traceability is on file and is available for examination upon request.

#### 4.4 Measurement Uncertainty

Test	Uncertainty ( $\pm$ dB)	Confidence (%)
Conducted Emissions	1.44	95
Radiated Emissions (9 kHz to 30 MHz)	2.50	95
Radiated Emissions (30 MHz to 1 GHz)	4.38	95
Radiated Emissions (1 GHz to 18 GHz)	4.37	95
Radiated Emissions (18 GHz to 40 GHz)	3.93	95
<b>Direct Connect Tests</b>	<b>K Factor</b>	<b>Value</b>
Emissions Bandwidth	2	2.0%
Output Power	2	1.0 dB
Peak Power Spectral Density	2	1.3 dB
Band Edge	2	0.8 dB
Transmitter Spurious Emissions	2	1.8 dB

## 5 Test Results

### 5.1 §15.203 Antenna Requirements

The EUT uses an integral non-user accessible antenna structure. The maximum gain of the antenna per chain is 10.5 dBi. This is an 802.11 device and utilizes MIMO modes as described in KDB 662911 D01 F) 1).

CFR 47 Part 15.407 limits shall account for beamforming techniques; therefore, for RF Power and PSD measurements Directional Gain shall be 10.5 per the following:

The Directional Gain shall be considered Per KDB 662911 D01 Multiple Transmitter Output v02r01 Section 2 d) (i) and the following equation:

Directional Gain =  $10 \text{ Log } [(10G1/20+10G2/20+10G3/20)^2/Nant]$ .

Where:

G1-3 = antenna gain for antenna's 1-3 as reported in antenna datasheet. (G1 = 6.0, G2=6.3, G3=4.8)

Nant = Number of antenna's (Nant =3), or

$10\text{Log } [10(6.0/20) + 10(6.3/20) + 10(4.8/20) ^2]/3$

Directional Gain = 10.5

### Results

The EUT complied with the specification

## 5.2 §15.403(i) 26 dB and 99% Emissions Bandwidth

All chains were measured under the guidance of KDB 789033 Section II.C. and KDB 66291 D01. Please see associated annex for details on instrument settings.

Tested at CFR 47 Part 15.407 test Limit (30dBm)

Modulation	Nominal BW (MHz)	Frequency (MHz)	99% Bandwidth (MHz)	Emissions 26 dB Bandwidth (MHz)
OFDM	20	5180	16.7	26.8
OFDM	20	5210	16.8	24.9
OFDM	20	5240	16.6	27.2
HT	20	5180	18.0	23.2
HT	20	5210	17.8	25.0
HT	20	5240	22.5	38.9
HT	40	5190	36.5	54.9
HT	40	5230	36.5	40.5
VHT	20	5180	18.0	28.6
VHT	20	5210	17.8	26.4
VHT	20	5240	18.0	27.2
VHT	40	5190	36.5	59.6
VHT	40	5230	36.8	50.1
VHT	80	5210	76.0	240.0
HE	20	5180	19.1	34.4
HE	20	5210	19.1	26.8
HE	20	5240	20.4	40.5
HE	40	5190	37.8	50.3
HE	40	5230	37.8	39.6
HE	80	5210	77.0	198.0

**Tested at RSS-247 test limit (23dBm)**

Modulation	Nominal BW (MHz)	Frequency (MHz)	99% Bandwidth (MHz)	Emissions 26 dB Bandwidth (MHz)
OFDM	20	5180	16.6	28.1
OFDM	20	5210	16.5	20.0
OFDM	20	5240	16.6	19.9
HT	20	5180	17.9	29.8
HT	20	5210	17.7	20.5
HT	20	5240	17.7	20.4
HT	40	5190	36.5	48.3
HT	40	5230	36.3	40.1
VHT	20	5180	17.8	30.6
VHT	20	5210	17.7	20.8
VHT	20	5240	17.7	20.3
VHT	40	5190	36.8	53.3
VHT	40	5230	36.3	40.1
VHT	80	5210	76.0	106.5
HE	20	5180	19.1	31.5
HE	20	5210	19.0	21.3
HE	20	5240	18.9	20.1
HE	40	5190	37.8	42.3
HE	40	5230	37.8	39.6
HE	80	5210	77.5	92.0

**Result**

All chains were tested and the highest bandwidth per chain is reported above.

The 26 dB bandwidths are reported for information purposes. Please see Annex for all bandwidth measurements.



### 5.3 §15.407(a)(2) Maximum Average Output Power

All chains were measured and summed under the guidance of KDB 789033 Section II. E.2. and KDB 66291 D01. Please see associated annex for details on instrument settings.

The maximum average RF conducted output power measured for this device was 25.49 dBm or 354.00 mW. The limit is 30 dBm, or 1 Watt when using an antenna with 6 dBi or less gain. If transmitting antennas that have a directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The antenna has a gain of 10.5 dBi therefore the conducted output is 354.8mW or 25.5dBm.

#### Tested at CFR 47 Part 15.407 test Limit (30dBm)

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Conducted Output Power
OFDM 20	5180	Mcs0	18	23.43
OFDM 20	5210	Mcs0	18.5	24.31
OFDM 20	5240	Mcs0	18.5	25.33
HT 20	5180	Mcs0	17.5	22.95
HT 20	5210	Mcs0	17.5	23.32
HT 20	5240	Mcs0	20.5	25.39
HT 40	5190	Mcs0	15.5	21.08
HT 40	5230	Mcs0	17.5	23.40
VHT 20	5180	Mcs0	18	23.26
VHT 20	5210	Mcs0	18	23.78
VHT 20	5240	Mcs0	18.5	24.40
VHT 40	5190	Mcs0	15.5	21.10
VHT 40	5230	Mcs0	18	23.85
VHT 80	5210	Mcs0	13	18.47
HE 20	5180	Mcs0	18	23.40
HE 20	5210	Mcs0	18	23.89
HE 20	5240	Mcs0	18.5	25.49
HE 40	5190	Mcs0	15	20.76
HE 40	5230	Mcs0	17	23.17
HE 80	5210	Mcs0	13	18.66

#### Result

In the configuration tested, the maximum summed average RF output power was less than 354.00mW or 25.49dBm; therefore, the EUT complied with the requirements of the specification (see spectrum analyzer plots in attached Annex).

**Tested at RSS-247 test limit (23dBm)**

The maximum e.i.r.p. shall not exceed 200 mW or  $10 + 10 \log_{10} B$ , dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Conducted Output Power	Measured EIRP
OFDM 20	5180	Mcs0	12	17.39	22.89
OFDM 20	5210	Mcs0	11.5	17.30	22.80
OFDM 20	5240	Mcs0	11.5	17.45	22.95
HT 20	5180	Mcs0	12	17.32	22.82
HT 20	5210	Mcs0	11.5	17.26	22.76
HT 20	5240	Mcs0	11.5	17.43	22.93
HT 40	5190	Mcs0	11.5	17.03	22.53
HT 40	5230	Mcs0	11.5	17.38	22.88
VHT 20	5180	Mcs0	12	17.29	22.79
VHT 20	5210	Mcs0	11.5	17.25	22.75
VHT 20	5240	Mcs0	11.5	17.40	22.90
VHT 40	5190	Mcs0	11.5	16.98	22.48
VHT 40	5230	Mcs0	11.5	17.39	22.89
VHT 80	5210	Mcs0	11.5	16.94	22.44
HE 20	5180	Mcs0	12	17.43	22.93
HE 20	5210	Mcs0	11.5	17.43	22.93
HE 20	5240	Mcs0	11	17.16	22.66
HE 40	5190	Mcs0	11.5	17.23	22.73
HE 40	5230	Mcs0	11	17.11	22.61
HE 80	5210	Mcs0	11.5	17.18	22.68

**Result**

In the configuration tested, the maximum summed e.i.r.p. output power was less than 200mW or 23dBm; therefore, the EUT complied with the requirements of the specification (see spectrum analyzer plots in attached Annex).

## **5.4 §15.407(b) Spurious Emissions**

### **5.4.1 Conducted Spurious Emissions**

The frequency range from the lowest frequency generated or used in the device to the tenth harmonic of the highest fundamental frequency was investigated to measure any antenna-conducted emissions. The graphs show the measurement data from spurious emissions noted across the frequency range when transmitting at the lowest frequency, middle frequency and upper frequency. Shown below are plots with the EUT turned to the upper and lower channels with the antenna gain of 18.2 dBi accounted for. These demonstrate compliance with the provisions of this section at the band edges.

The emissions must be remain below -27 dBm EIRP.

#### **Result**

Conducted spurious emissions were below -27 dBm; therefore, the EUT complies with the specification.

### **5.4.2 Radiated Spurious Emissions in the Restricted Bands of § 15.205**

The EUT uses various power settings based on the channel in use. In order to reduce test time, the radiated spurious emissions at the lowest, middle, and highest channel were measured at the maximum power of TP39, as this setting was found to be worst case for spurious emissions. Power was subsequently reduced during in-band and band edge testing. The band edge at the restricted band ending at 5150 MHz was measured using radiated measurement. All emissions modes were tested, and the worst-case measurement are shown below. For frequencies above 1 GHz, a measurement of 3 meters was used. For frequencies below 1 GHz, a measurement distance of 10 meters was used.

Correction Factor = Antenna Factor + Cable Loss - Pre-Amplifier Gain, and is added to the Receiver reading.

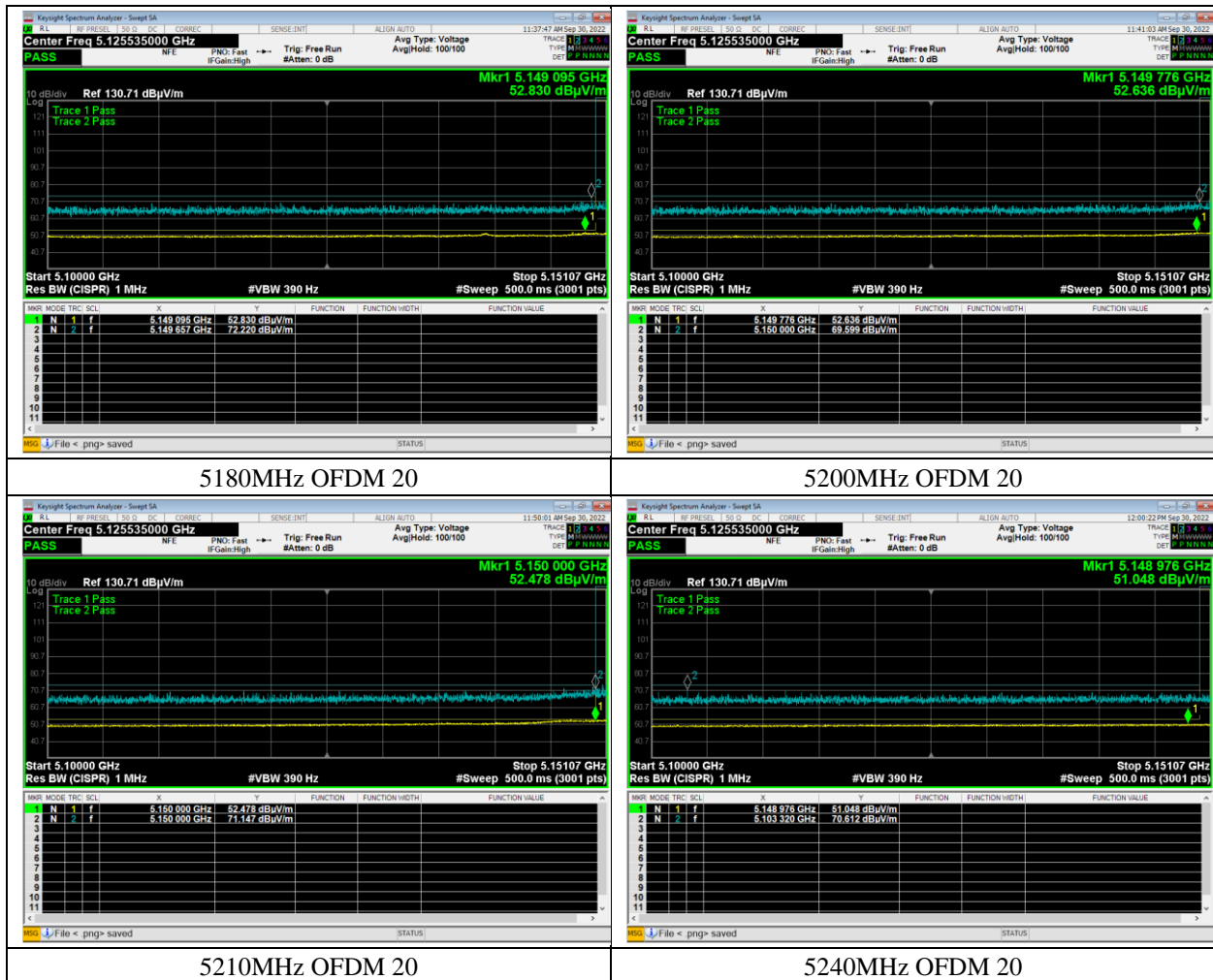
Frequency	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Meas. Time (s)	RBW (Hz)	Detector	Correction (dB)
10.487 GHz	53.071	74	-20.929	147	3.802	Vertical	5	1000000	Peak	1.461
15.719 GHz	62.383	74	-11.617	164	3.307	Vertical	5	1000000	Peak	5.045
10.487 GHz	39.072	54	-14.928	147	3.802	Vertical	5	1000000	Ave.	1.461
15.719 GHz	48.193	54	-5.807	164	3.307	Vertical	5	1000000	Ave.	5.045
10.482 GHz	51.746	74	-22.254	240	3.802	Horizontal	5	1000000	Peak	1.369
15.725 GHz	54.311	74	-19.689	168	3.802	Horizontal	5	1000000	Peak	5.083
10.482 GHz	37.588	54	-16.412	240	3.802	Horizontal	5	1000000	Ave.	1.369
15.725 GHz	40.37	54	-13.63	168	3.802	Horizontal	5	1000000	Ave.	5.083
10.353 GHz	57.903	74	-16.097	154	3.798	Vertical	5	1000000	Peak	1.103
15.537 GHz	58.409	74	-15.591	164	2.815	Vertical	5	1000000	Peak	5.1
10.353 GHz	43.993	54	-10.007	154	3.798	Vertical	5	1000000	Ave.	1.103
15.537 GHz	44.168	54	-9.832	164	2.815	Vertical	5	1000000	Ave.	5.1
10.358 GHz	54.521	74	-19.479	140	3.307	Horizontal	5	1000000	Peak	1.047
15.543 GHz	51.935	74	-22.065	279	3.307	Horizontal	5	1000000	Peak	5.102
10.358 GHz	41.048	54	-12.952	140	3.307	Horizontal	5	1000000	Ave.	1.047
15.543 GHz	38.851	54	-15.149	279	3.307	Horizontal	5	1000000	Ave.	5.102
10.418 GHz	60.133	74	-13.867	147	3.798	Vertical	5	1000000	Ave.	2.206
15.634 GHz	59.033	74	-14.967	166	2.816	Vertical	5	1000000	Peak	5.234
10.418 GHz	45.436	54	-8.564	147	3.798	Vertical	5	1000000	Peak	2.206
15.634 GHz	44.413	54	-9.587	166	2.816	Vertical	5	1000000	Ave.	5.234
10.423 GHz	56.359	74	-17.641	140	3.798	Horizontal	5	1000000	Peak	2.167
15.629 GHz	52.067	74	-21.933	118	2.329	Horizontal	5	1000000	Peak	5.053
10.423 GHz	42.306	54	-11.694	140	3.798	Horizontal	5	1000000	Ave.	2.167
15.629 GHz	37.957	54	-16.043	118	2.329	Horizontal	5	1000000	Ave.	5.053
25.898 GHz	55.029	74	-18.971	217	1.500	Vertical	5	1000000	Peak	0.427
25.898 GHz	42.155	54	-11.845	217	1.500	Vertical	5	1000000	Ave.	0.427
26.5 GHz	48.18	74	-25.82	248	1.500	Horizontal	5	1000000	Peak	-0.197
26.5 GHz	34.921	54	-19.079	248	1.500	Horizontal	5	1000000	Ave.	-0.197
26.052 GHz	56.56	74	-17.44	215	1.500	Vertical	5	1000000	Peak	0.451
26.052 GHz	43.275	54	-10.725	215	1.500	Vertical	5	1000000	Ave.	0.451

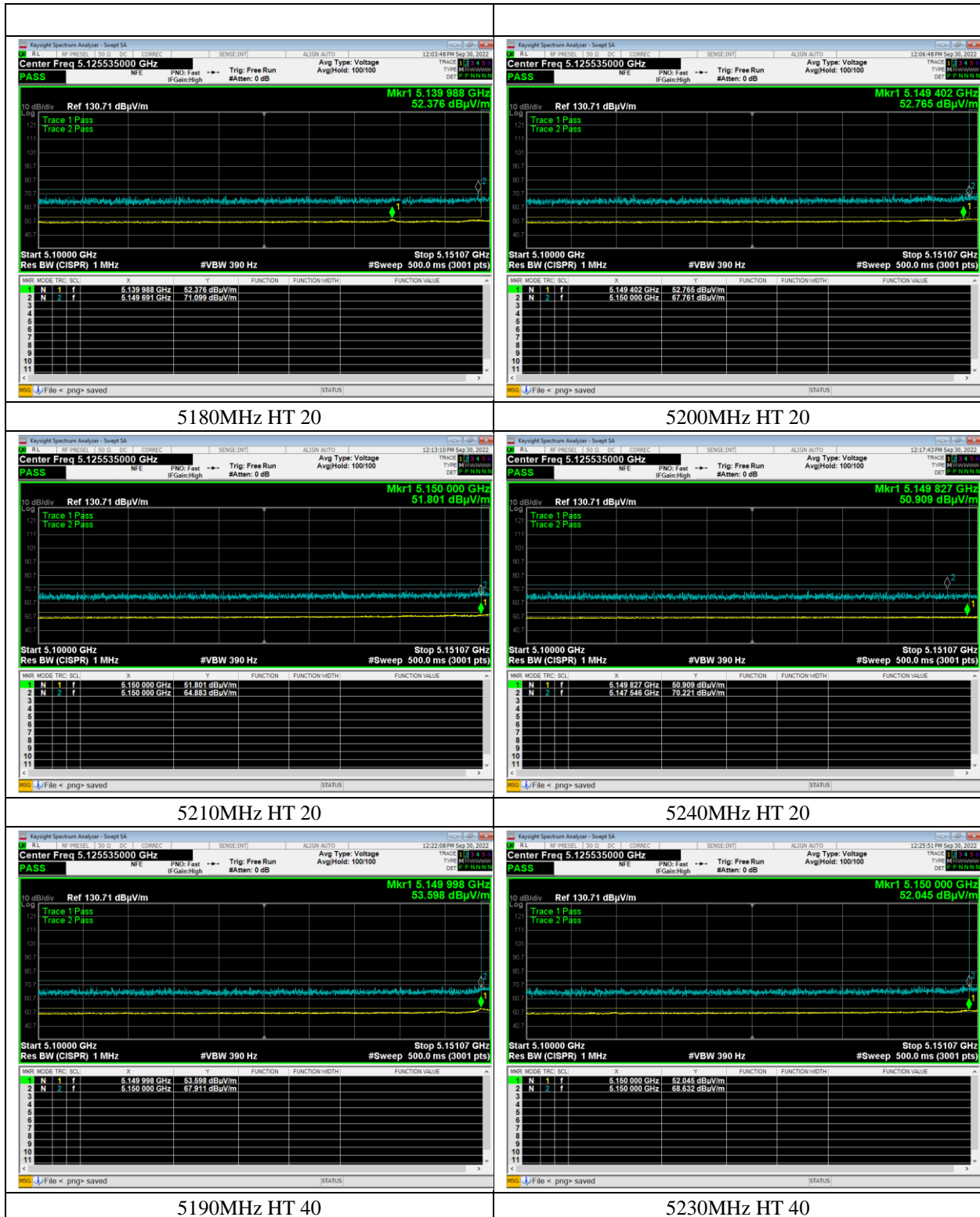
### Radiated Spurious Emissions

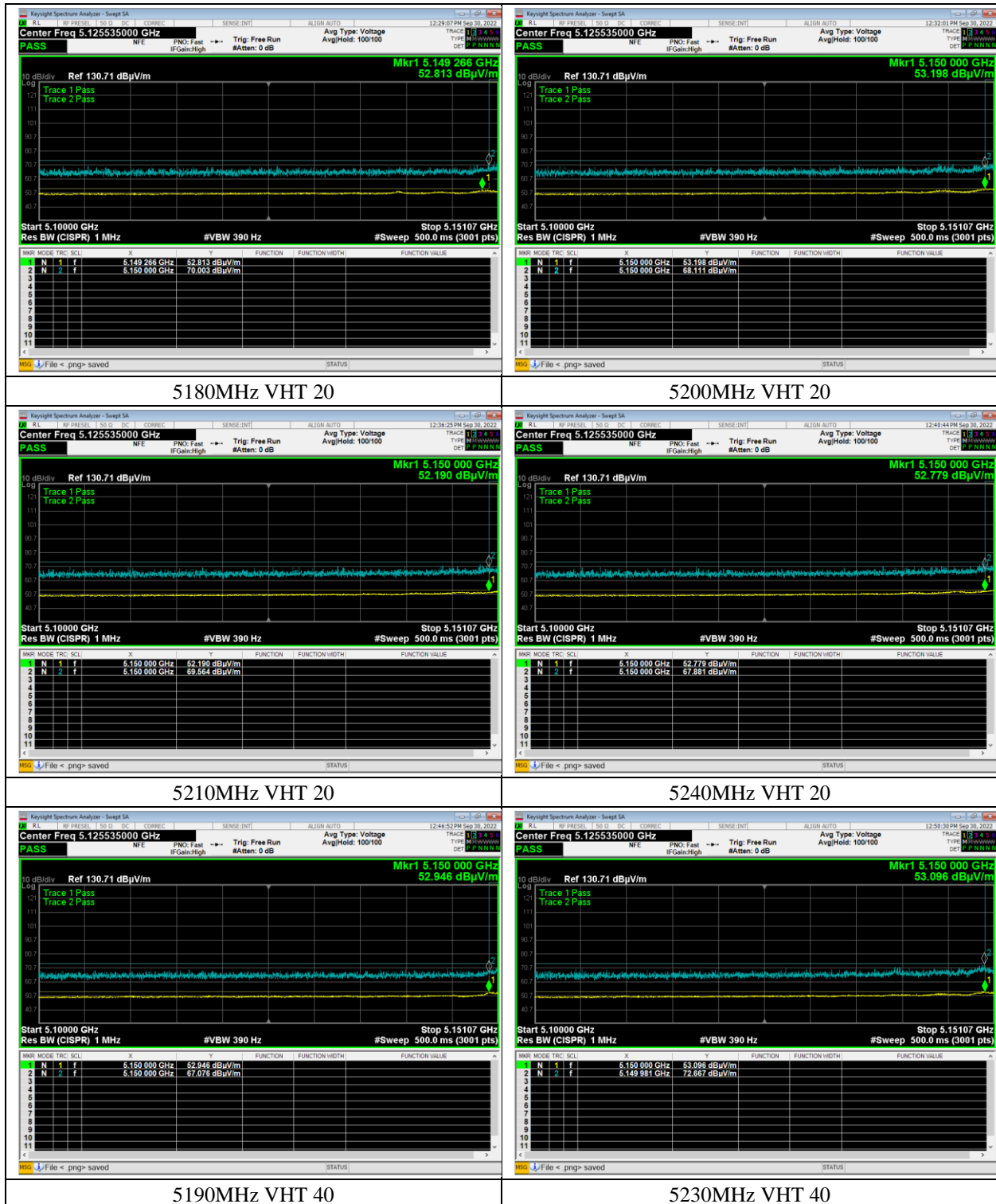
#### Result

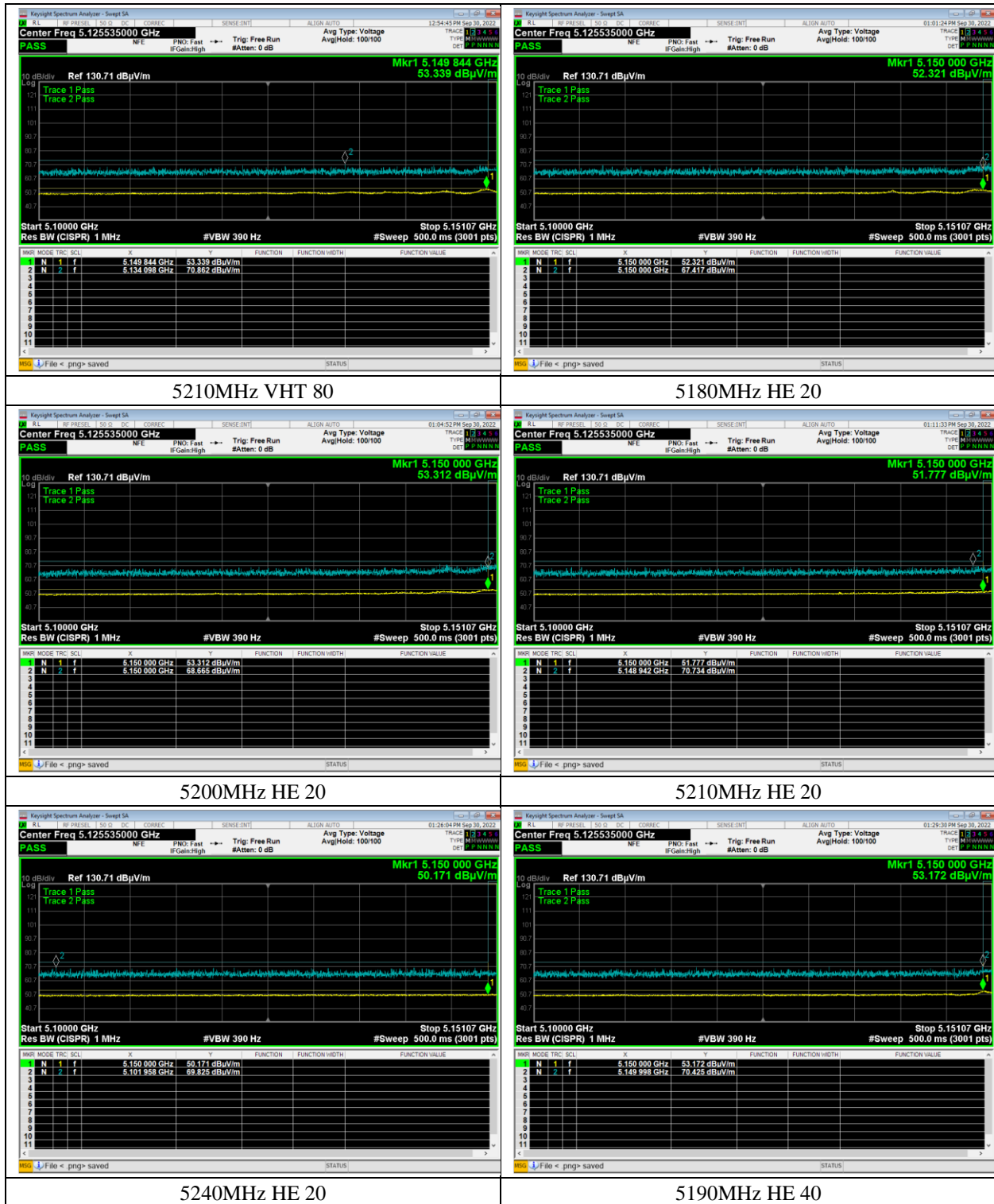
All emissions in the restricted bands of § 15.205 met the limits specified in § 15.209; therefore, the EUT complies with the specification. All emissions met the limits specified in § 15.407(b). Representative band edge plots are included in this report. Tested was applied at CFR 47 Part 15.407 limits, which are considered worst case.

### 5.4.3 Band Edge Results

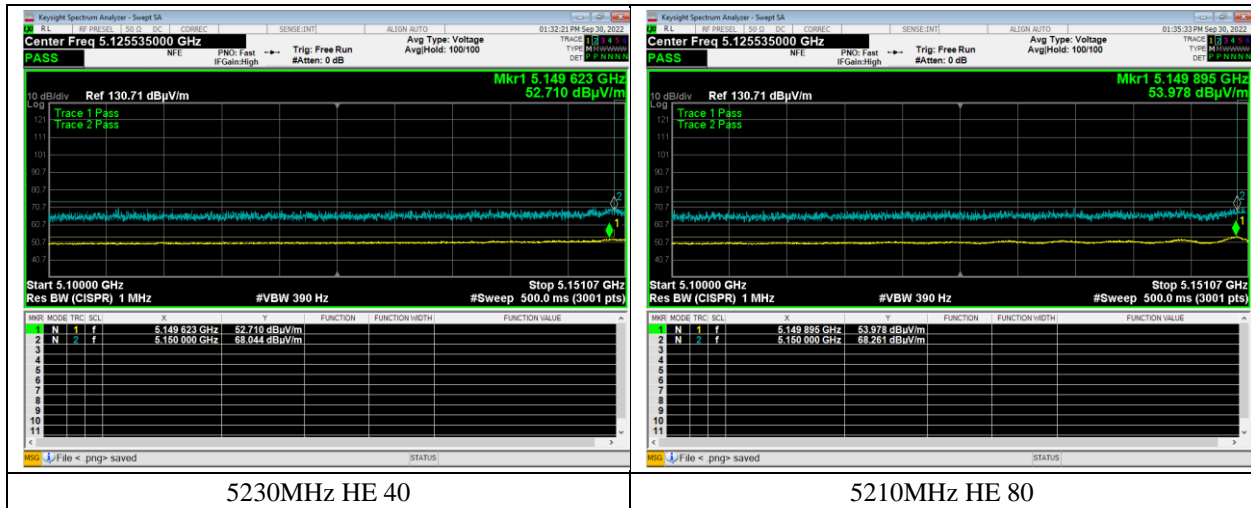












## 5.5 §15.407(a) Maximum Power Spectral Density

All chains were measured and summed under the guidance of KDB 789033 Section II. F. and KDB 66291 D01. Please see associated annex for details on instrument settings.

The maximum average power spectral density conducted from the intentional radiator of the antenna shall not be greater than 17 dBm in any 1 MHz band during any time interval of continuous transmission. If transmitting antennas that have a directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The antenna has a gain of 10.5 dBi therefore the power spectral density has a limit of 12.5dBm.

Results of this testing are summarized.

### Tested at CFR 47 Part 15.407 test Limit (30dBm)

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Measured PSD
OFDM 20	5180	Mcs0	18	8.85
OFDM 20	5210	Mcs0	18.5	9.61
OFDM 20	5240	Mcs0	18.5	11.08
HT 20	5180	Mcs0	17.5	8.04
HT 20	5210	Mcs0	17.5	8.25
HT 20	5240	Mcs0	20.5	11.02
HT 40	5190	Mcs0	15.5	3.84
HT 40	5230	Mcs0	17.5	6.01
VHT 20	5180	Mcs0	18	8.36
VHT 20	5210	Mcs0	18	8.53
VHT 20	5240	Mcs0	18.5	9.05
VHT 40	5190	Mcs0	15.5	3.85
VHT 40	5230	Mcs0	18	6.40
VHT 80	5210	Mcs0	13	-2.23
HE 20	5180	Mcs0	18	8.13
HE 20	5210	Mcs0	18	8.42
HE 20	5240	Mcs0	18.5	10.62
HE 40	5190	Mcs0	15	3.31
HE 40	5230	Mcs0	17	5.45
HE 80	5210	Mcs0	13	-2.21

### Result

The maximum summed average power spectral density was less than the limit of 12.5dBm; therefore, the EUT complies with the specification.

**Tested at RSS-247 test limit (10dBm)**

The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Measured PSD
OFDM 20	5180	Mcs0	12	2.88
OFDM 20	5210	Mcs0	11.5	2.76
OFDM 20	5240	Mcs0	11.5	2.64
HT 20	5180	Mcs0	12	2.53
HT 20	5210	Mcs0	11.5	2.33
HT 20	5240	Mcs0	11.5	2.34
HT 40	5190	Mcs0	11.5	-0.06
HT 40	5230	Mcs0	11.5	0.05
VHT 20	5180	Mcs0	12	2.47
VHT 20	5210	Mcs0	11.5	2.26
VHT 20	5240	Mcs0	11.5	2.15
VHT 40	5190	Mcs0	11.5	-0.05
VHT 40	5230	Mcs0	11.5	0.07
VHT 80	5210	Mcs0	11.5	-3.62
HE 20	5180	Mcs0	12	2.24
HE 20	5210	Mcs0	11.5	2.09
HE 20	5240	Mcs0	11	1.73
HE 40	5190	Mcs0	11.5	-0.14
HE 40	5230	Mcs0	11	-0.44
HE 80	5210	Mcs0	11.5	-3.56

**Result**

The maximum summed average power spectral density was less than the limit of 10dBm; therefore, the EUT complies with the specification.

## **Test Results UNII-1 AX mode**

(Note CFR 47 Part 15.407 AX mode is considered worst case and is displayed here. All other modes were tested but omitted due to report size.)

# FCC 15.407 2018

## DUT Information

### Frequencies

WLAN CH 36 (5180 MHz)	WLAN CH 38 (5190 MHz)	WLAN CH 40 (5200 MHz)
WLAN CH 42 (5210 MHz)	WLAN CH 44 (5220 MHz)	WLAN CH 46 (5230 MHz)
WLAN CH 48 (5240 MHz)	WLAN CH 50 (5250 MHz)	WLAN CH 52 (5260 MHz)
WLAN CH 54 (5270 MHz)	WLAN CH 56 (5280 MHz)	WLAN CH 58 (5290 MHz)
WLAN CH 60 (5300 MHz)	WLAN CH 62 (5310 MHz)	WLAN CH 64 (5320 MHz)
WLAN CH 100 (5500 MHz)	WLAN CH 102 (5510 MHz)	WLAN CH 104 (5520 MHz)
WLAN CH 106 (5530 MHz)	WLAN CH 108 (5540 MHz)	WLAN CH 110 (5550 MHz)
WLAN CH 112 (5560 MHz)	WLAN CH 114 (5570 MHz)	WLAN CH 116 (5580 MHz)
WLAN CH 118 (5590 MHz)	WLAN CH 120 (5600 MHz)	WLAN CH 122 (5610 MHz)
WLAN CH 124 (5620 MHz)	WLAN CH 126 (5630 MHz)	WLAN CH 128 (5640 MHz)
WLAN CH 130 (5650 MHz)	WLAN CH 132 (5660 MHz)	WLAN CH 134 (5670 MHz)
WLAN CH 136 (5680 MHz)	WLAN CH 138 (5690 MHz)	WLAN CH 140 (5700 MHz)
WLAN CH 142 (5710 MHz)	WLAN CH 144 (5720 MHz)	WLAN CH 149 (5745 MHz)
WLAN CH 151 (5755 MHz)	WLAN CH 153 (5765 MHz)	WLAN CH 155 (5775 MHz)
WLAN CH 157 (5785 MHz)	WLAN CH 159 (5795 MHz)	WLAN CH 161 (5805 MHz)
WLAN CH 163 (5815 MHz)	WLAN CH 165 (5825 MHz)	

### Bandwidths

20 MHz (20 MHz)	40 MHz (40 MHz)	80 MHz (80 MHz)
160 MHz (160 MHz)		

### Power

24.000 dBm (24 dBm)

### Beamforming Gain

Powerstep name (value)	Beamforming gain table names
24.000 dBm (24 dBm)	---

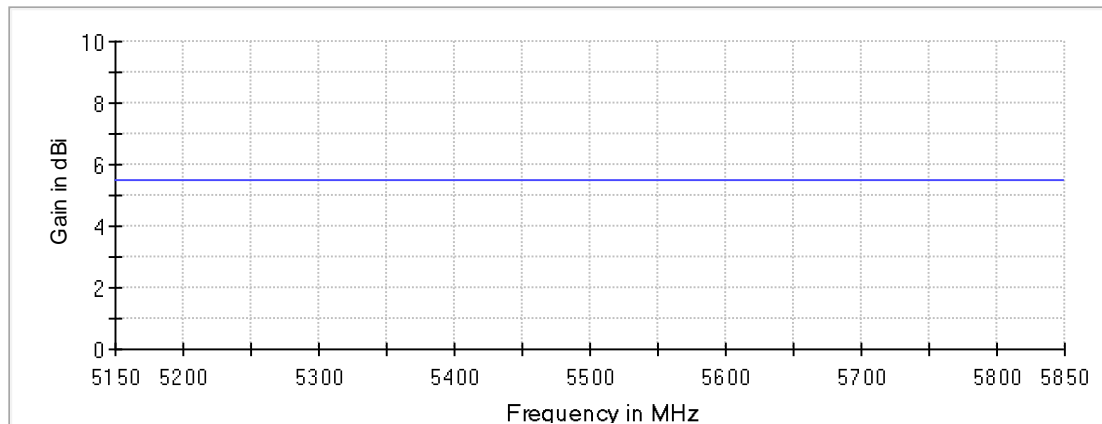
### Gain Tables

Powerstep name (value)	Gain table names
24.000 dBm (24 dBm)	Port 1: Nom. Ant.; Port 2: Nom. Ant.; Port 3: Nom. Ant.;

### DUT Settings

No. of transmission chains	3
DFS capability	Yes
DFS Mode	Client with radar detection
Equipment Type	Outdoor AP
TPC	No

Gaintable Nom. Ant.



— Gaintable: Nom. Ant.

## Hardware Setup: WMS Measurements\TS8997 Hardware Setup

Spectrum Analyzer: SA FSV 40 (SA FSV 40) @ VISA (ADR TCPIP::192.168.48.100::inst0::instr), SN 1321.3008K40/101752, FW 3.70

Vector Generator: VG SMW200A (VG SMW200A) @ VISA (ADR TCPIP0::A-N5182B-301471::inst0::INSTR), SN 101752, FW 3.70

Generator: SMB100A (SMB100A) @ VISA (ADR TCPIP::192.168.48.110::inst0::INSTR), SN 180599, FW 3.20.390.24 / Drv:Rev 2.21.0, 07/2016, CVI 2015

OSP: OSP-B157W8PLUS (OSP-B157W8PLUS) @ VISA (ADR TCPIP::192.168.48.157::inst0::instr), SN 1527.1144.06 / 100955, FW 2.00.1.0

## Summary

Test	Frequency (MHz)	Nominal Power (dBm)	Nominal Bandwidth (MHz)	Result
Emission Bandwidth 26 dB	5180.000	24.0	20.000000	PASS
RF output power	5180.000	24.0	20.000000	PASS
Power Spectral Density	5180.000	24.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5180.000	24.0	20.000000	PASS
Emission Bandwidth 26 dB	5210.000	24.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5210.000	24.0	20.000000	PASS
Emission Bandwidth 26 dB	5240.000	24.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5240.000	24.0	20.000000	PASS
Emission Bandwidth 26 dB	5190.000	24.0	40.000000	PASS
Occupied Channel Bandwidth 99%	5190.000	24.0	40.000000	PASS
Emission Bandwidth 26 dB	5230.000	24.0	40.000000	PASS
Occupied Channel Bandwidth 99%	5230.000	24.0	40.000000	PASS
Emission Bandwidth 26 dB	5210.000	24.0	80.000000	PASS
Occupied Channel Bandwidth 99%	5210.000	24.0	80.000000	PASS

## Emission Bandwidth 26 dB (5180 MHz; 24.000 dBm; 20 MHz)

Customized settings.

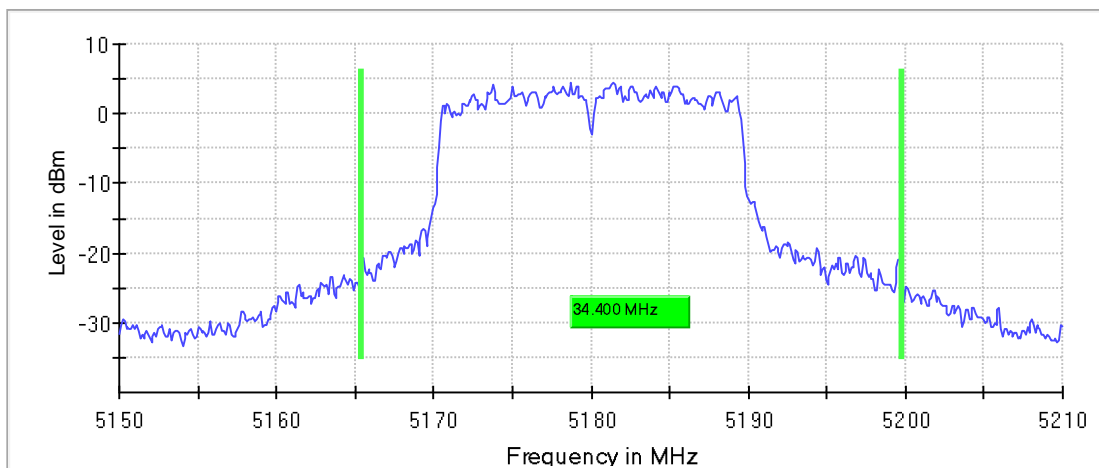
### 26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5180.000000	34.400000	---	---	5165.350000	5199.750000

(continuation of the "26 dB Bandwidth" table from column 6 ...)

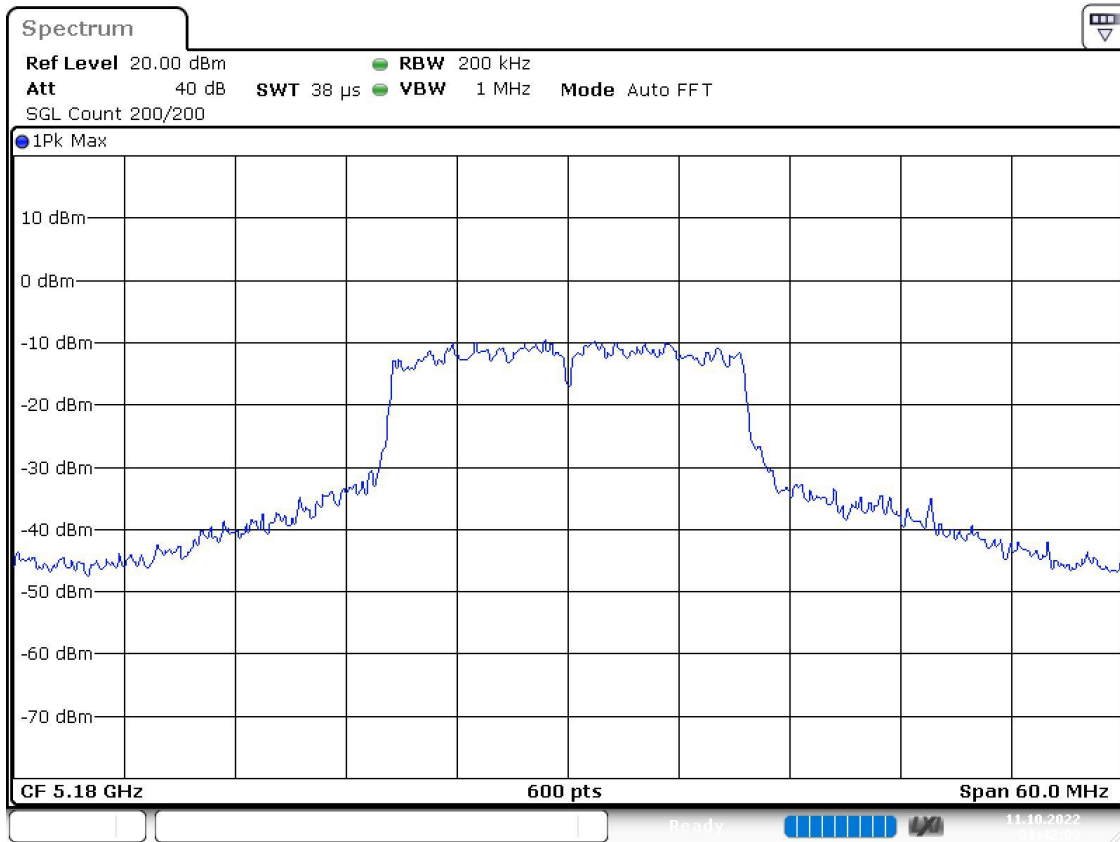
DUT Frequency (MHz)	Max Level (dBm)	Result
5180.000000	4.5	PASS

26 dB Bandwidth



Bandwidth





Date: 11.OCT.2022 01:42:09

### Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.15000 GHz	5.15000 GHz
Stop Frequency	5.21000 GHz	5.21000 GHz
Span	60.000 MHz	60.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	600	~ 600
SweepTime	37.969 µs	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

## RF output power (5180 MHz; 24.000 dBm; 20 MHz)

Customized settings.

### Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5180.000000	23.4	30.0	23.4	90.025	PASS

### OSP PowerMeter settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 $\mu$ s	1.000 $\mu$ s

## Power Spectral Density (5180 MHz; 24.000 dBm; 20 MHz)

Customized settings.

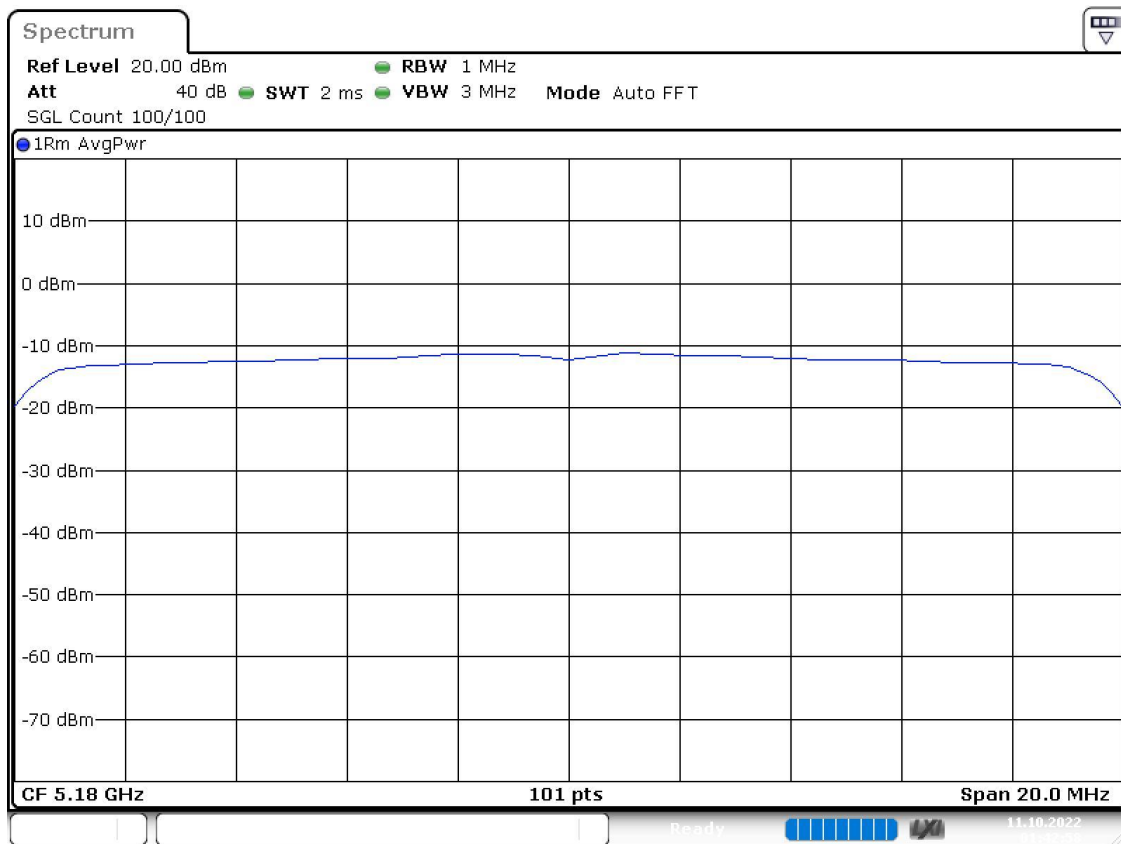
### Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5180.000000	5181.188119	8.129	17.0	PASS

### Ports

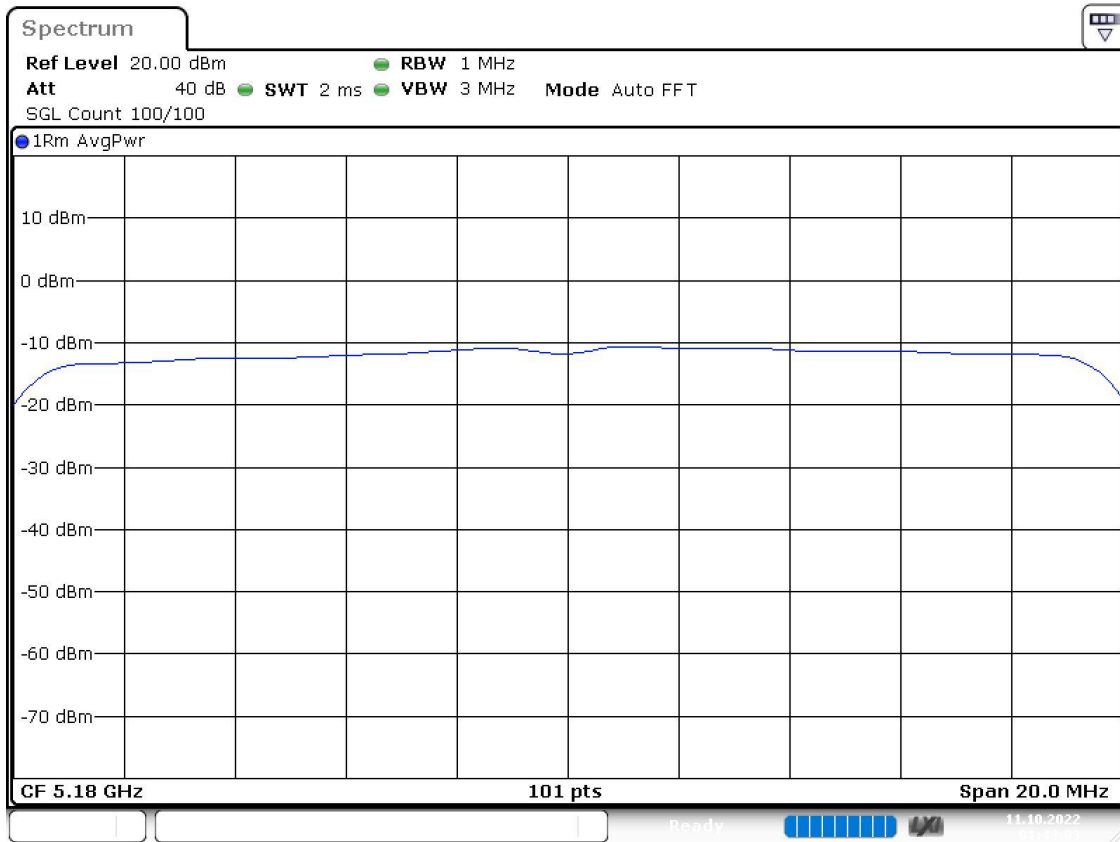
Port	State
1	used
2	used
3	used

### PSD Connector 1



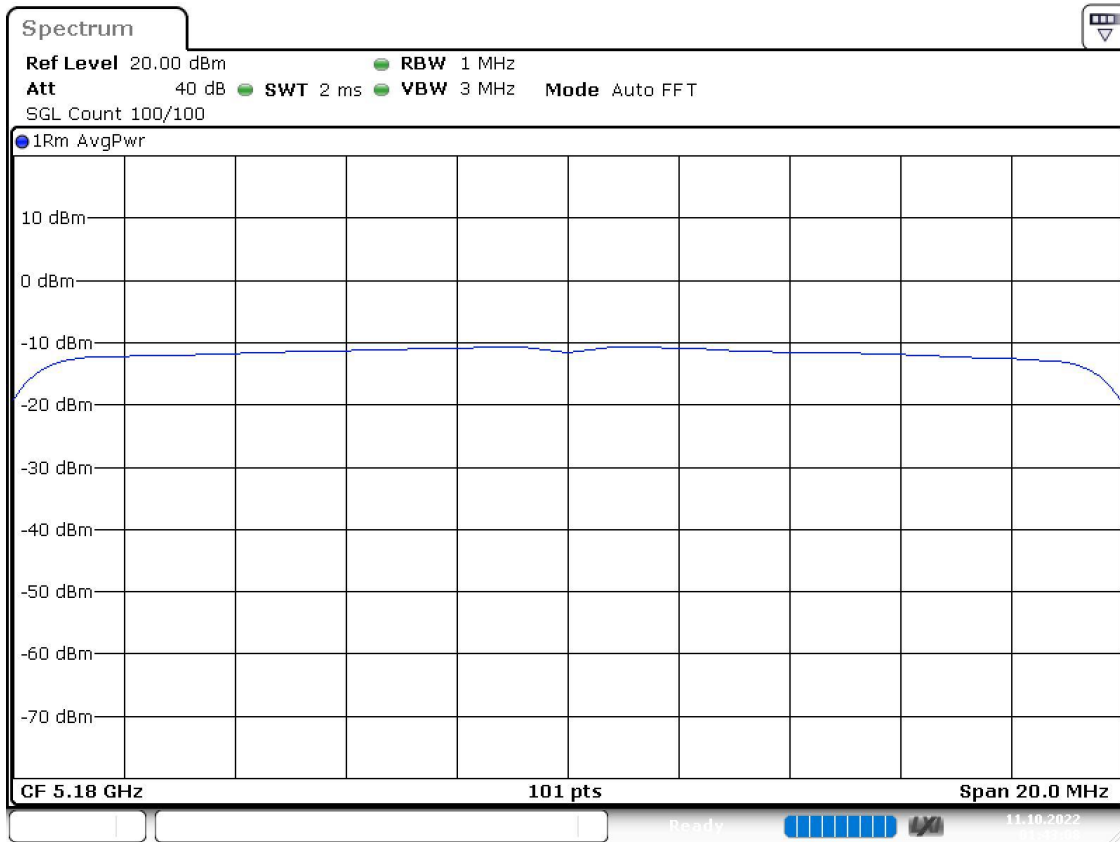
Date: 11.OCT.2022 01:42:58

PSD Connector 2



Date: 11.OCT.2022 01:43:03

PSD Connector 3



Date: 11.OCT.2022 01:43:09

## Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.17000 GHz	5.17000 GHz
Stop Frequency	5.19000 GHz	5.19000 GHz
Span	20.000 MHz	20.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 40
SweepTime	2.020 ms	2.020 ms
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	AUTO
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Average Power	Average Power
SweepType	FFT	AUTO
Preamp	off	off

## Occupied Channel Bandwidth 99% (5180 MHz; 24.000 dBm; 20 MHz)

Customized settings.

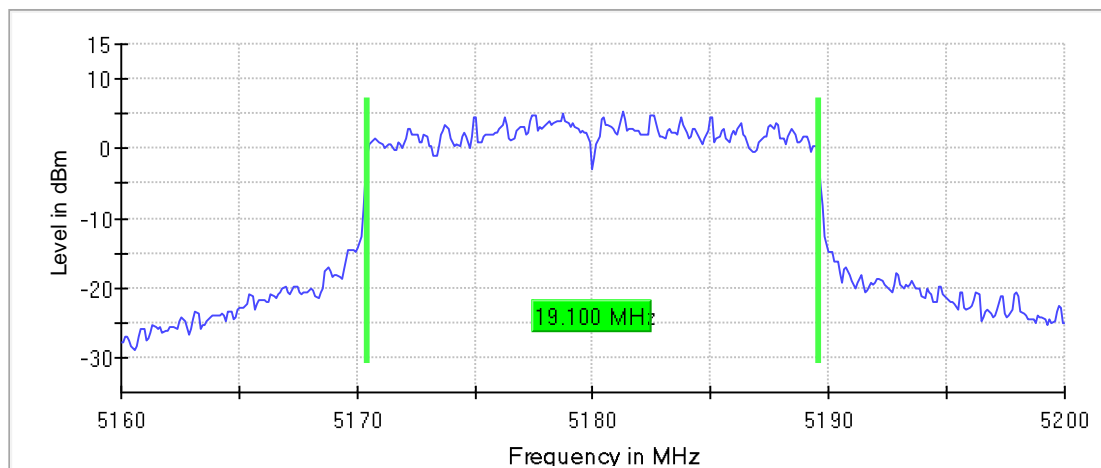
### 99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5180.000000	19.100000	---	---	5170.450000	5189.550000

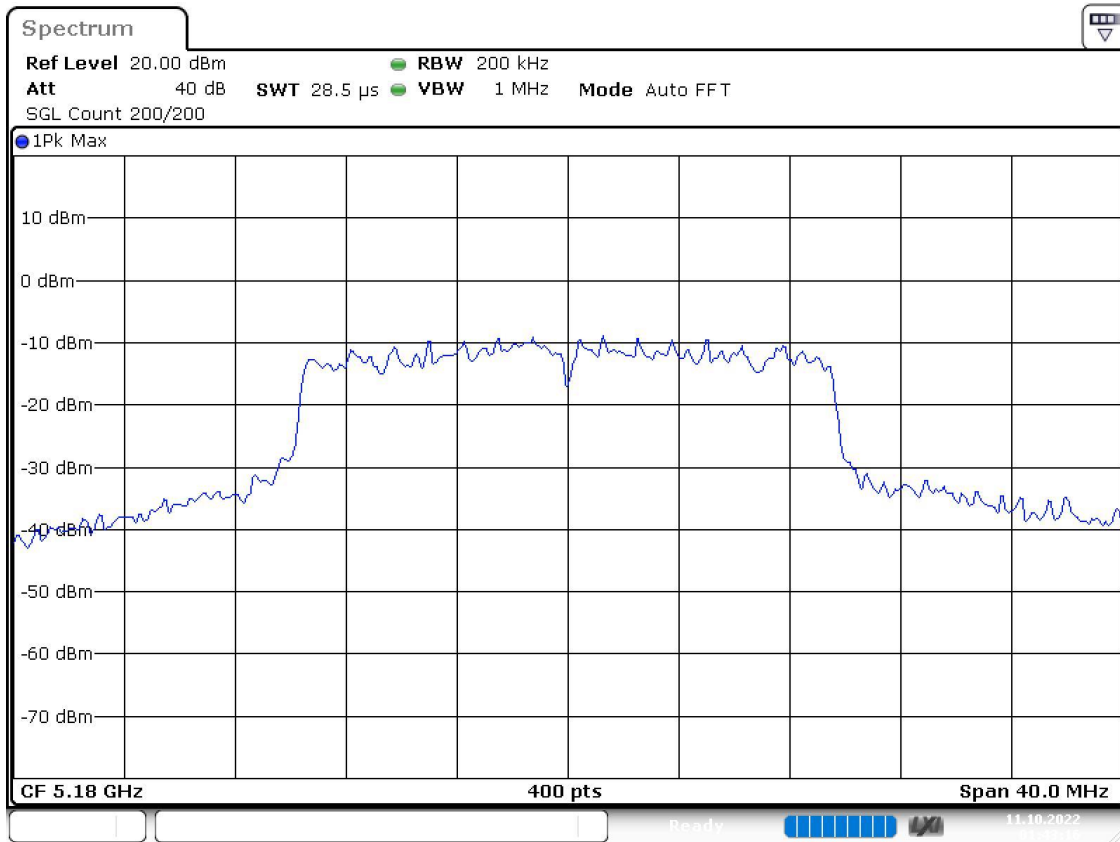
(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
5180.000000	PASS

99 % Bandwidth



Bandwidth



Date: 11.OCT.2022 01:43:16

## Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.16000 GHz	5.16000 GHz
Stop Frequency	5.20000 GHz	5.20000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
SweepTime	28.477 μs	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off



## Emission Bandwidth 26 dB (5210 MHz; 24.000 dBm; 20 MHz)

Customized settings.

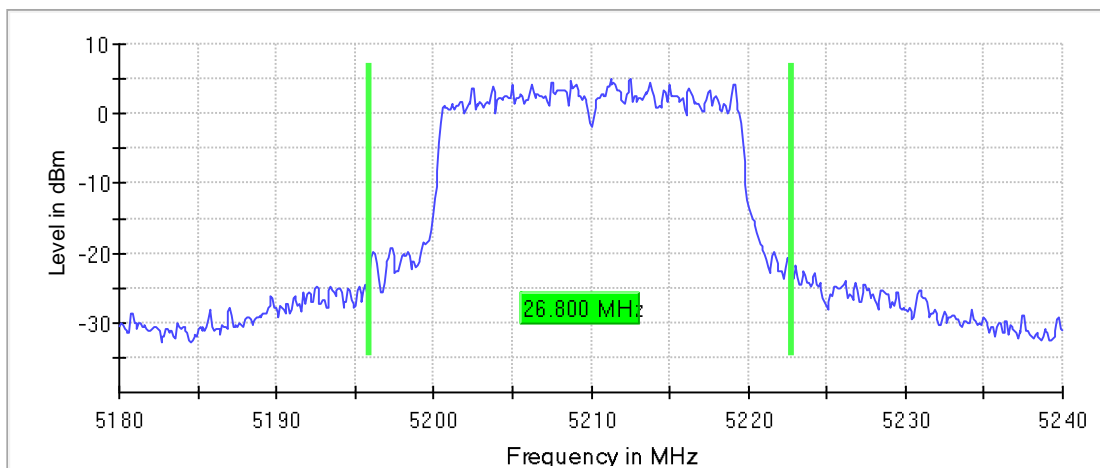
### 26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5210.000000	26.800000	---	---	5195.950000	5222.750000

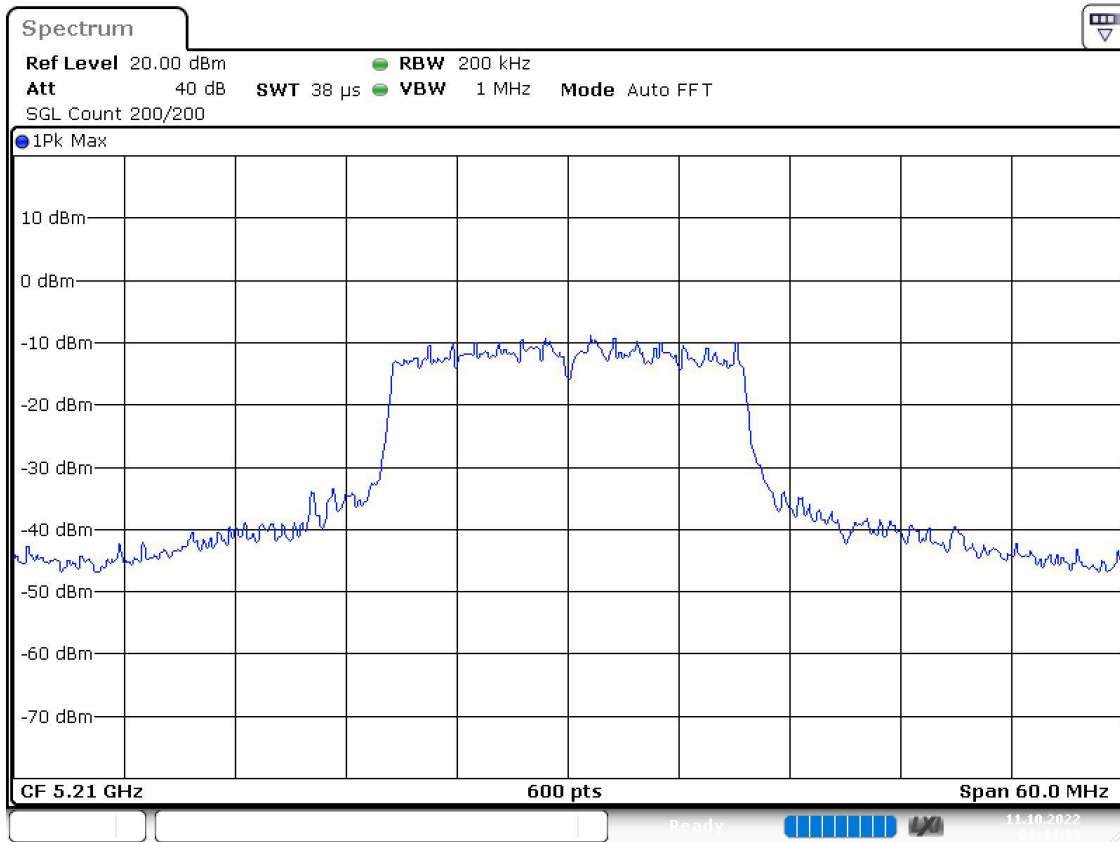
(continuation of the "26 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5210.000000	5.2	PASS

26 dB Bandwidth



Bandwidth



Date: 11.OCT.2022 01:44:39

## Occupied Channel Bandwidth 99% (5210 MHz; 24.000 dBm; 20 MHz)

Customized settings.

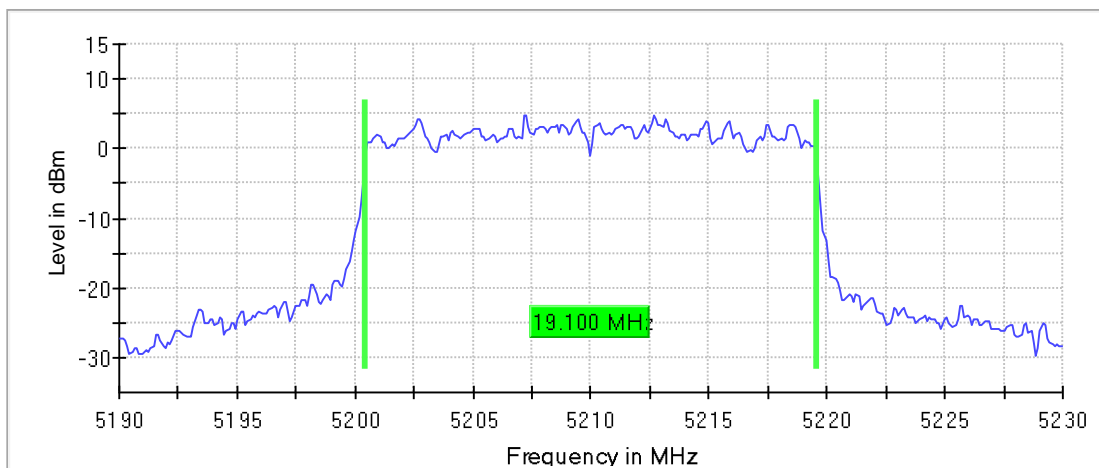
### 99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5210.000000	19.100000	---	---	5200.450000	5219.550000

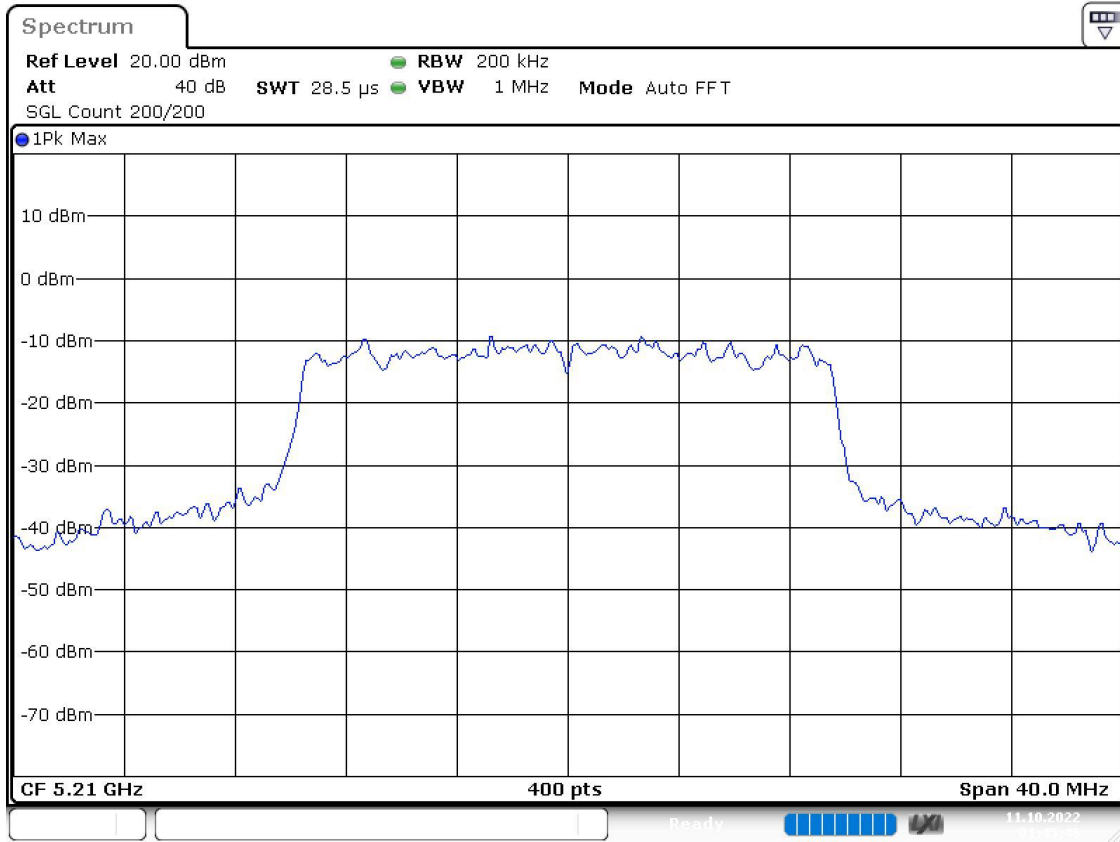
(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
5210.000000	PASS

99 % Bandwidth



Bandwidth



Date: 11.OCT.2022 01:45:46

## Emission Bandwidth 26 dB (5240 MHz; 24.000 dBm; 20 MHz)

Customized settings.

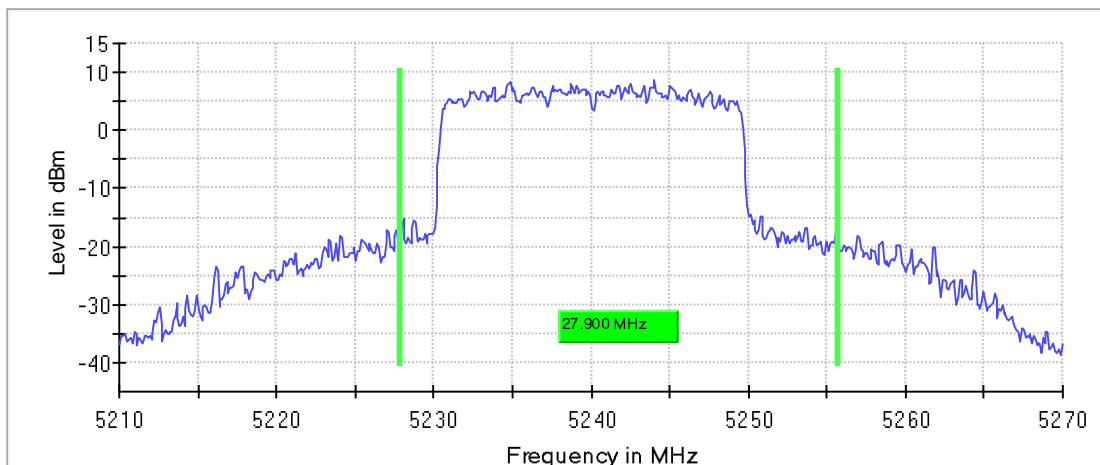
### 26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5240.000000	27.900000	---	---	5227.850000	5255.750000

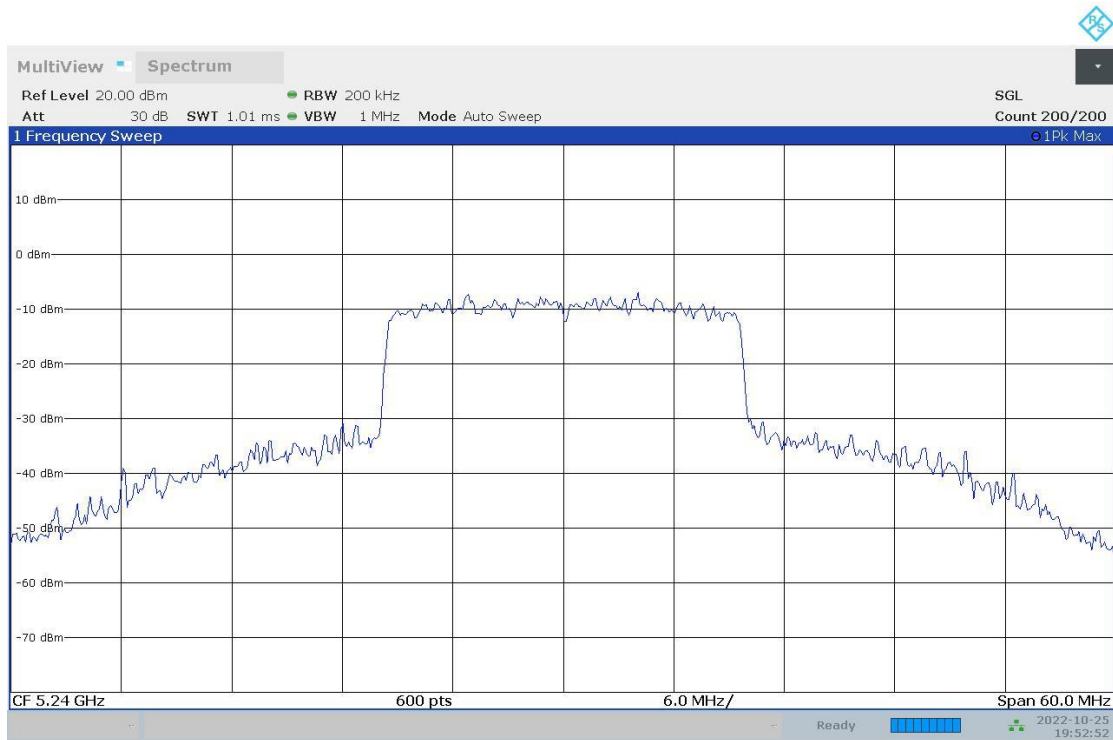
(continuation of the "26 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5240.000000	8.8	PASS

26 dB Bandwidth



Bandwidth



07:52:52 PM 10/25/2022

## Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.21000 GHz	5.21000 GHz
Stop Frequency	5.27000 GHz	5.27000 GHz
Span	60.000 MHz	60.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	600	~ 600
SweepTime	1.010 ms	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

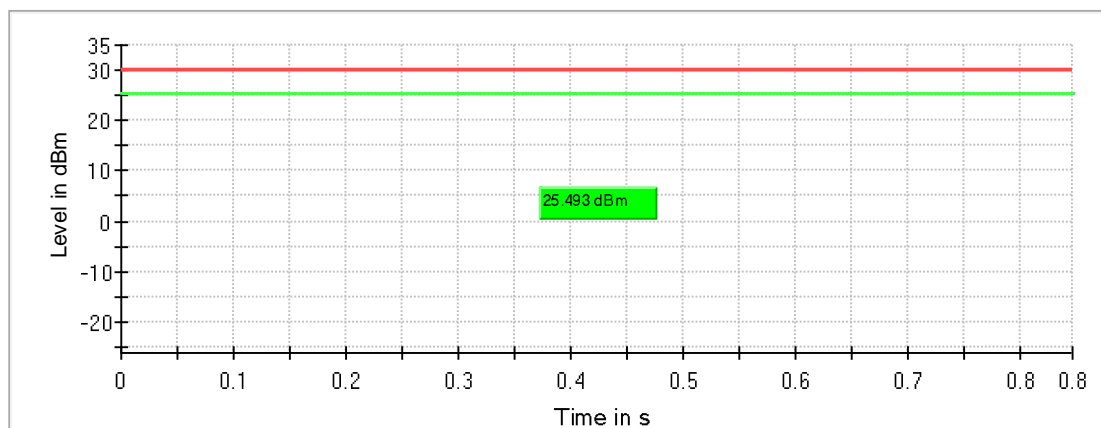
## RF output power (5240 MHz; 24.000 dBm; 20 MHz)

Customized settings.

### Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5240.000000	25.5	30.0	25.5	84.926	PASS

Gated Trace



— Gated Trace — Overall — Limit

### OSP PowerMeter settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 $\mu$ s	1.000 $\mu$ s

## Power Spectral Density (5240 MHz; 24.000 dBm; 20 MHz)

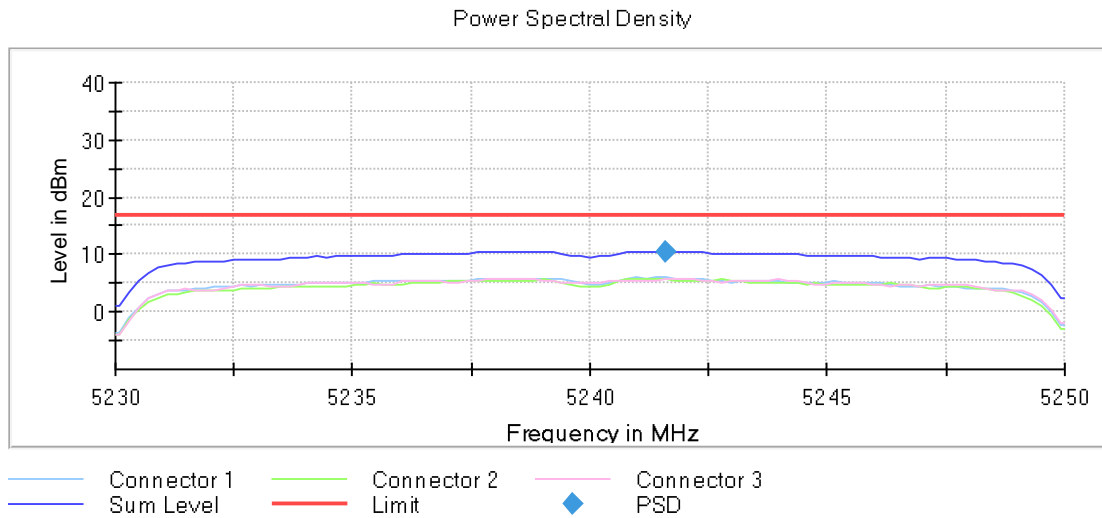
Customized settings.

### Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5240.000000	5241.584158	10.622	17.0	PASS

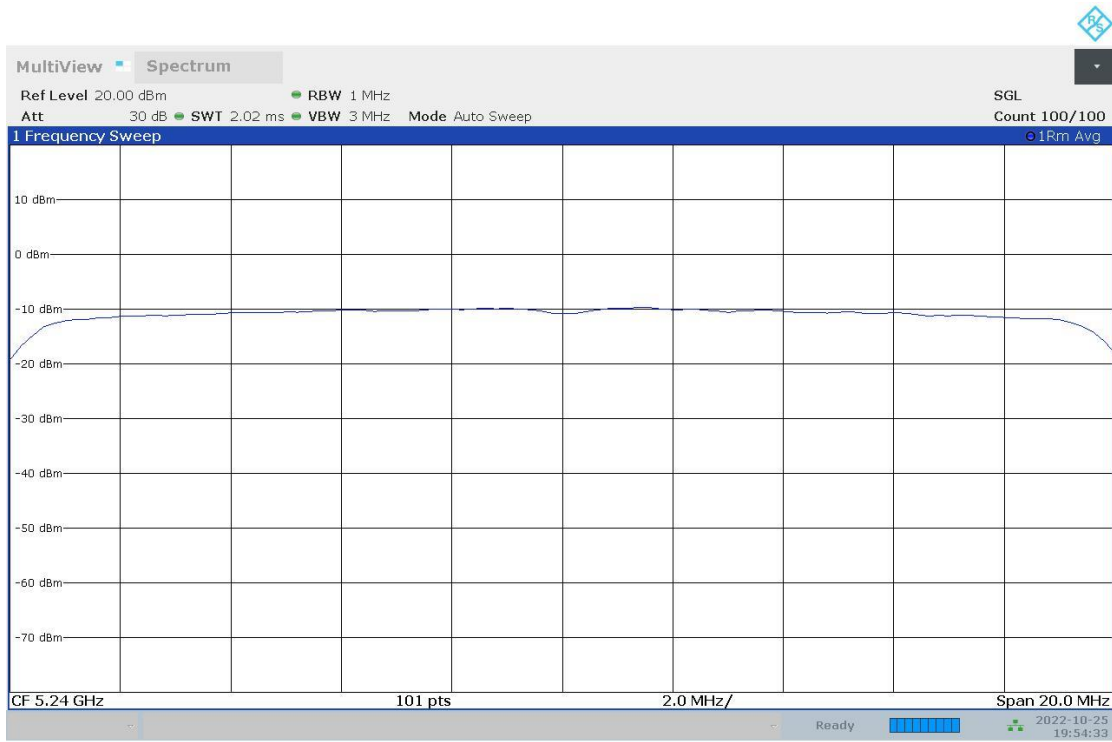
### Ports

Port	State
1	used
2	used
3	used



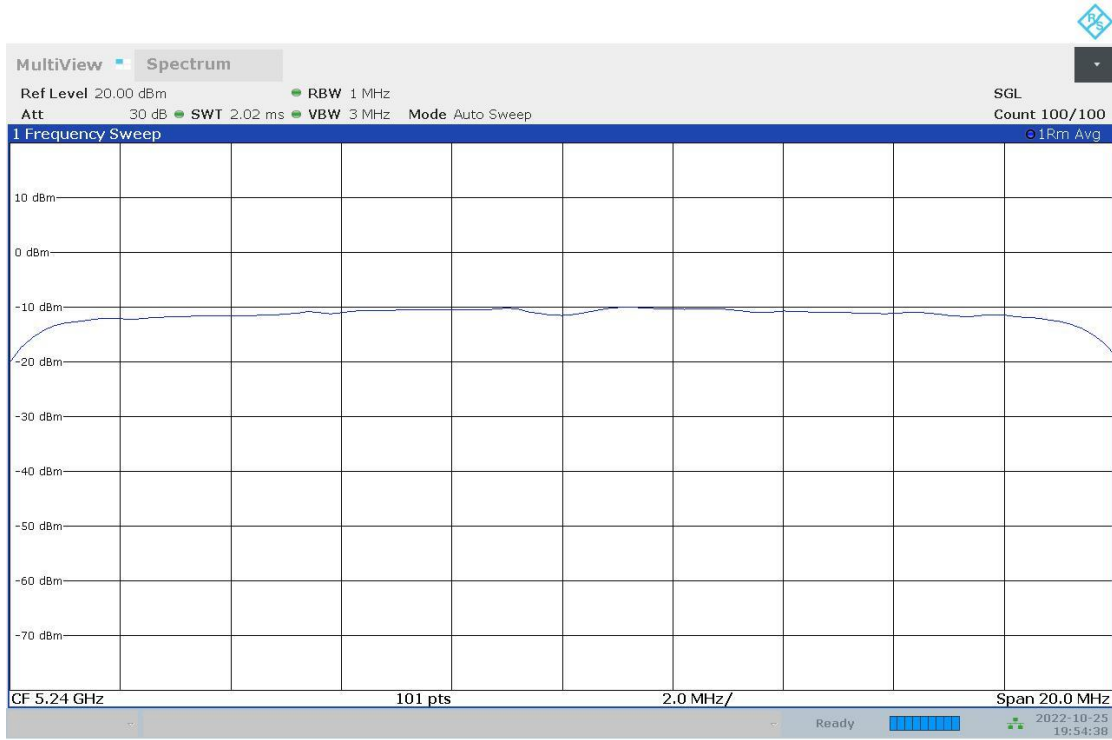
PSD Connector 1





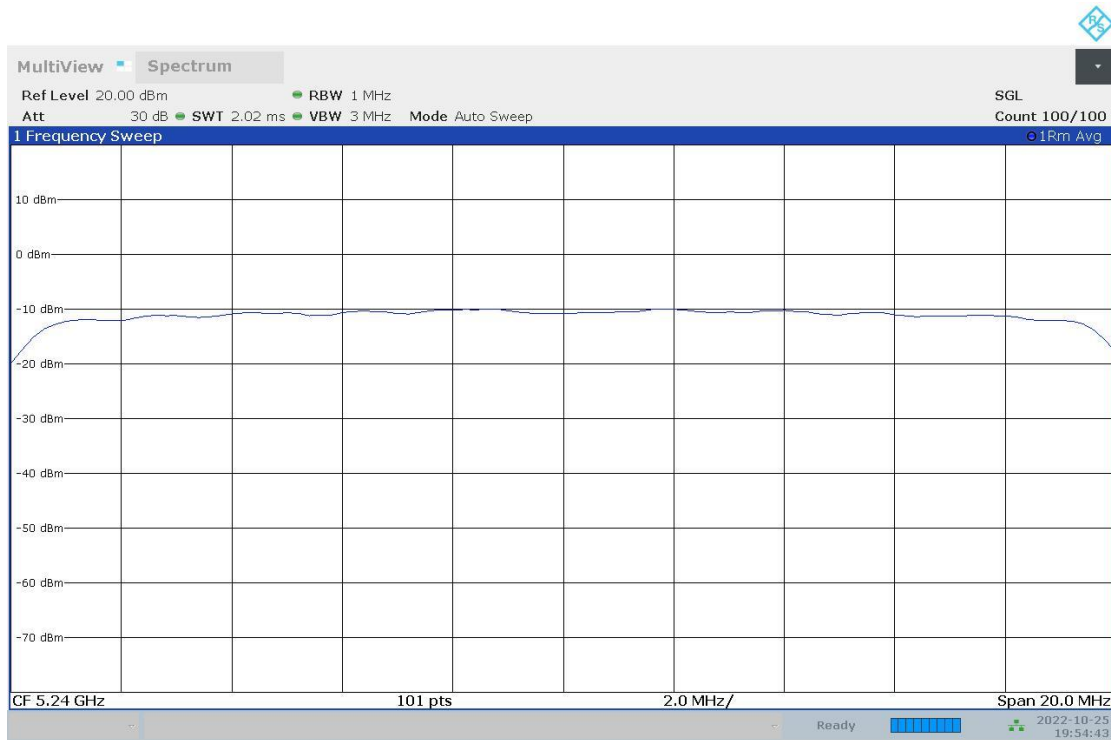
07:54:33 PM 10/25/2022

## PSD Connector 2



07:54:38 PM 10/25/2022

### PSD Connector 3



07:54:43 PM 10/25/2022

## Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.23000 GHz	5.23000 GHz
Stop Frequency	5.25000 GHz	5.25000 GHz
Span	20.000 MHz	20.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 40
Sweeptime	2.020 ms	2.020 ms
Reference Level	20.000 dBm	20.000 dBm
Attenuation	30.000 dB	AUTO
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Average Power	Average Power
Sweeptype	Sweep	AUTO
Preamp	off	off

## Occupied Channel Bandwidth 99% (5240 MHz; 24.000 dBm; 20 MHz)

Customized settings.

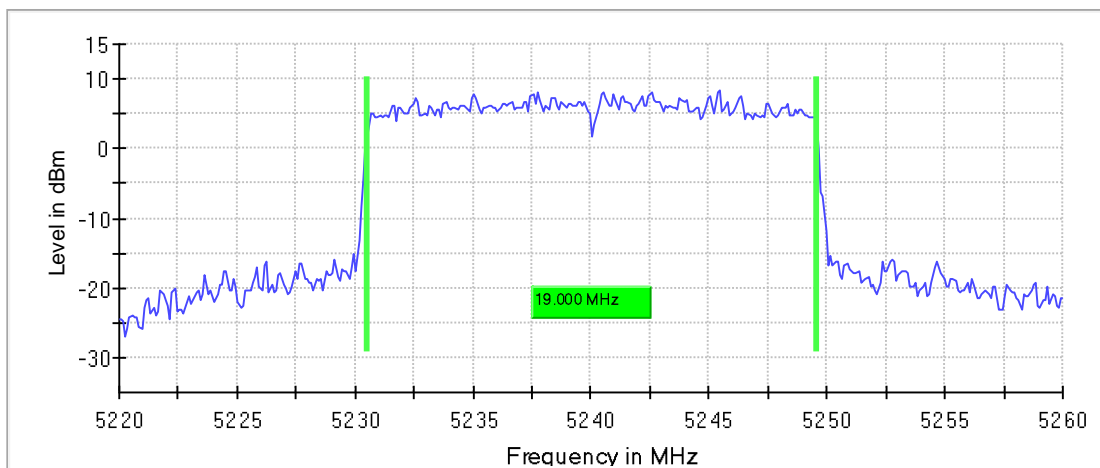
### 99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5240.000000	19.000000	---	---	5230.550000	5249.550000

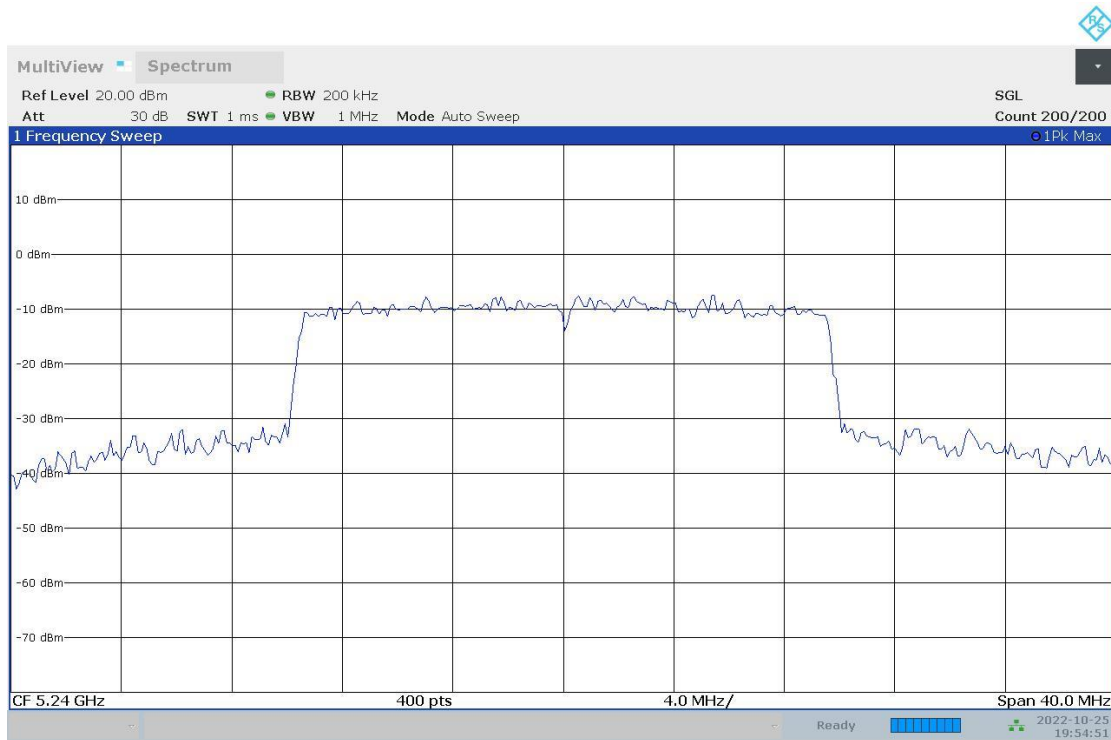
(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
5240.000000	PASS

99 % Bandwidth



Bandwidth



07:54:51 PM 10/25/2022

## Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.22000 GHz	5.22000 GHz
Stop Frequency	5.26000 GHz	5.26000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
Sweptime	1.000 ms	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off

## Emission Bandwidth 26 dB (5190 MHz; 24.000 dBm; 40 MHz)

Customized settings.

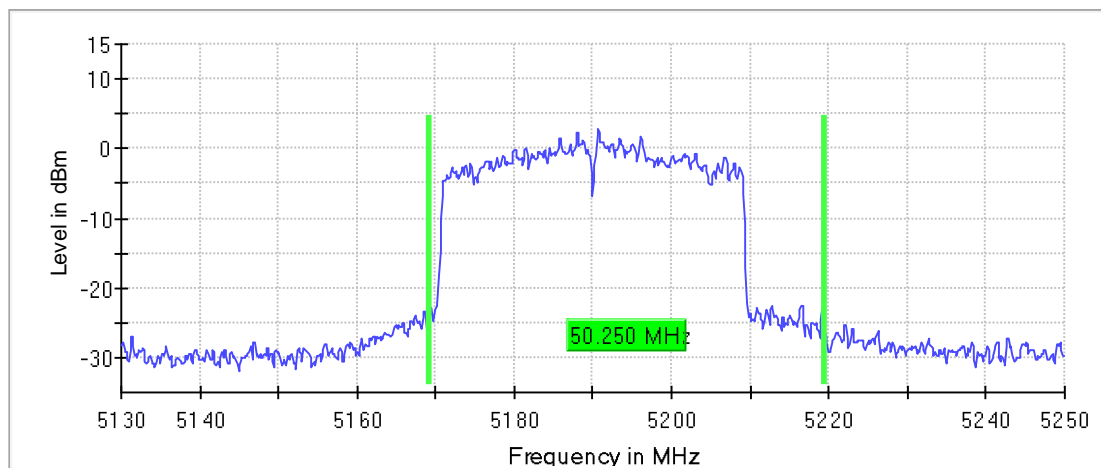
### 26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5190.000000	50.250000	---	---	5169.225000	5219.475000

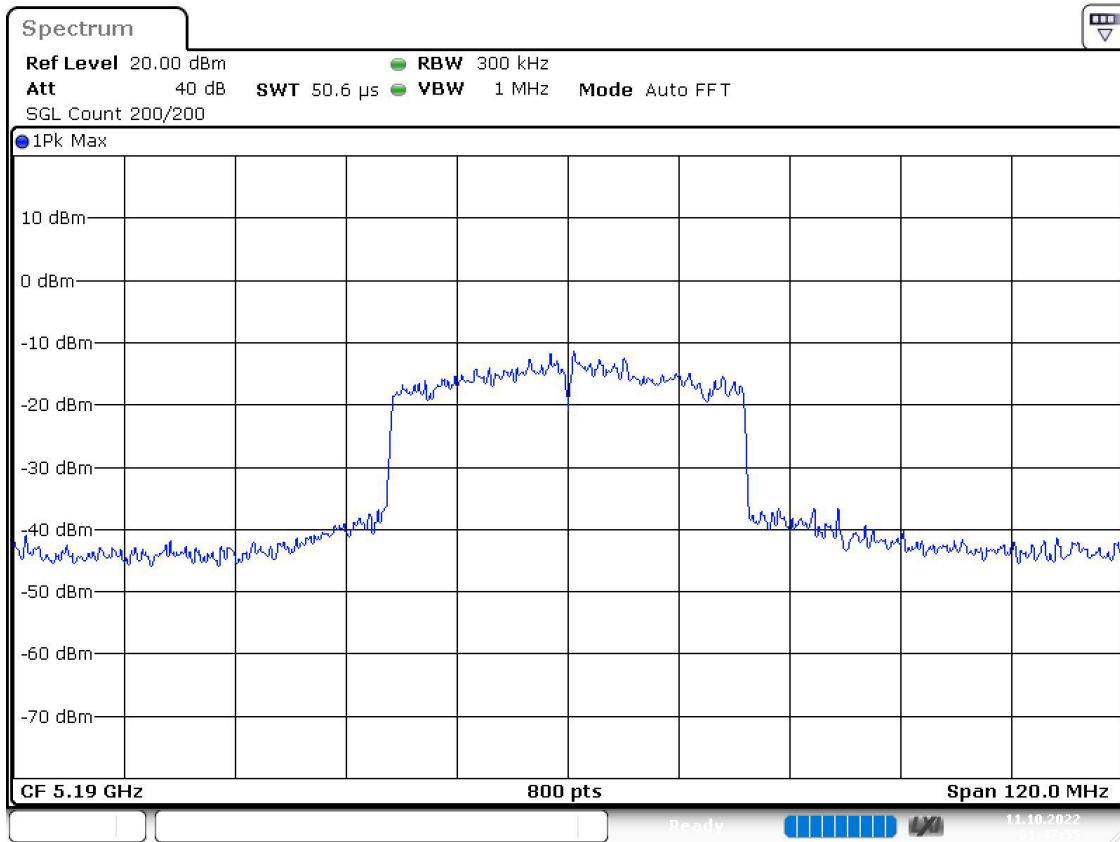
(continuation of the "26 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5190.000000	2.8	PASS

26 dB Bandwidth



Bandwidth



Date: 11.OCT.2022 01:47:55

## Occupied Channel Bandwidth 99% (5190 MHz; 24.000 dBm; 40 MHz)

Customized settings.

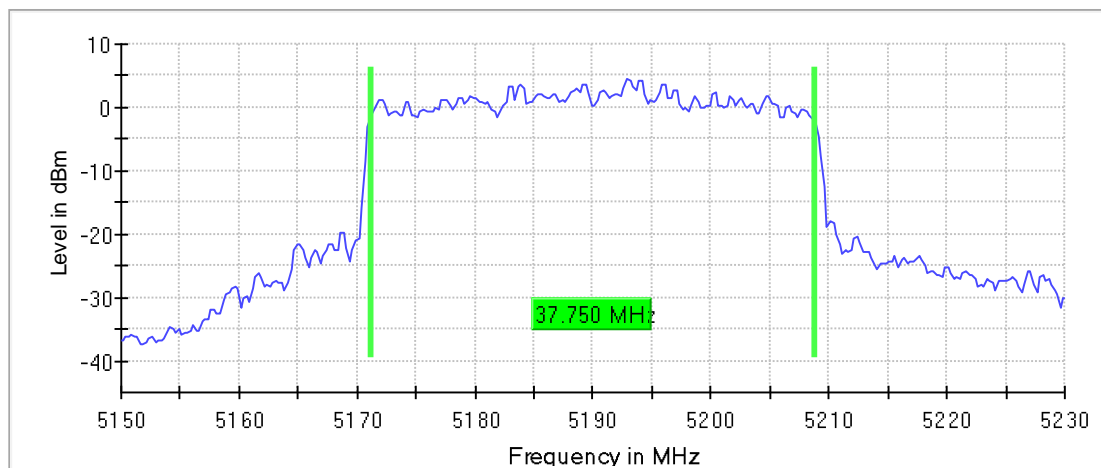
### 99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5190.000000	37.750000	---	---	5171.125000	5208.875000

(continuation of the "99 % Bandwidth" table from column 6 ...)

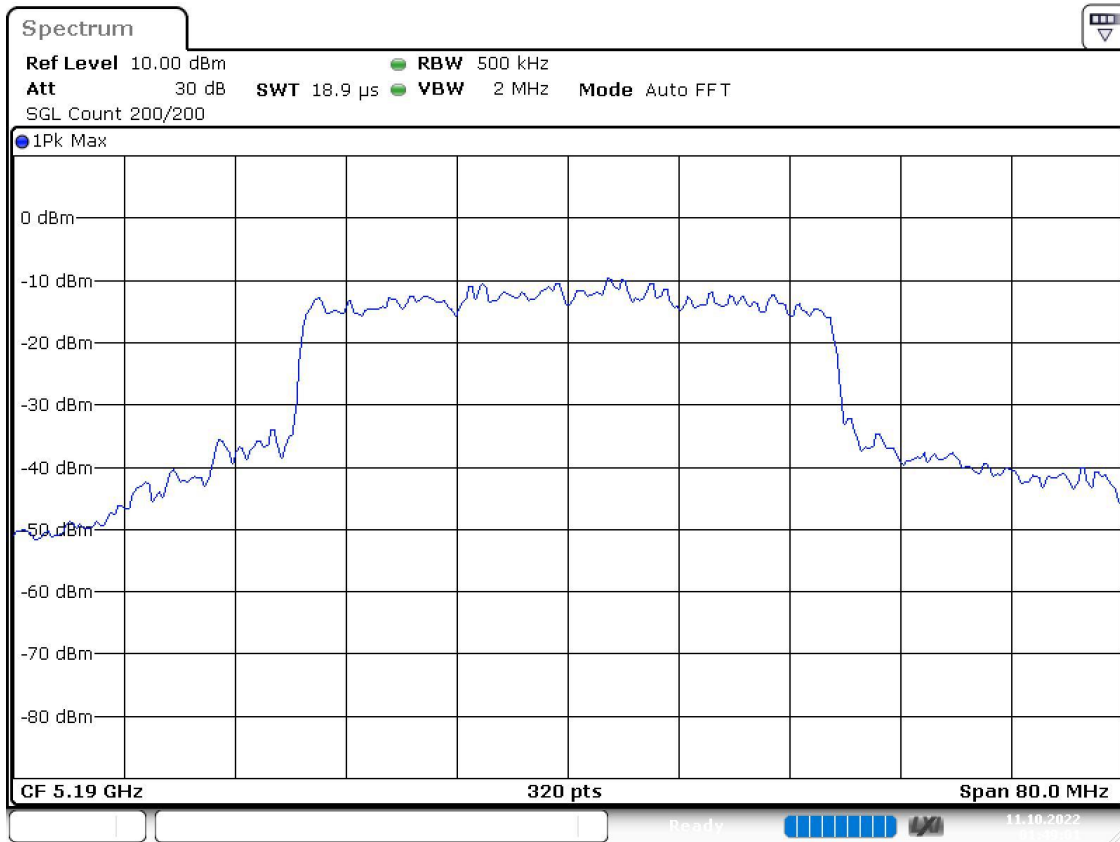
DUT Frequency (MHz)	Result
5190.000000	PASS

99 % Bandwidth



Bandwidth





Date: 11.OCT.2022 01:49:02

## Emission Bandwidth 26 dB (5230 MHz; 24.000 dBm; 40 MHz)

Customized settings.

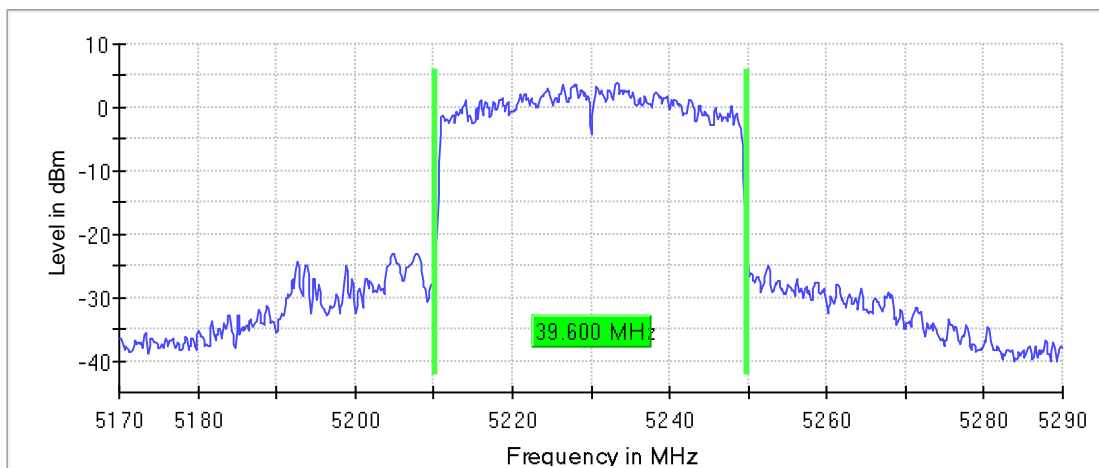
### 26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5230.000000	39.600000	---	---	5210.275000	5249.875000

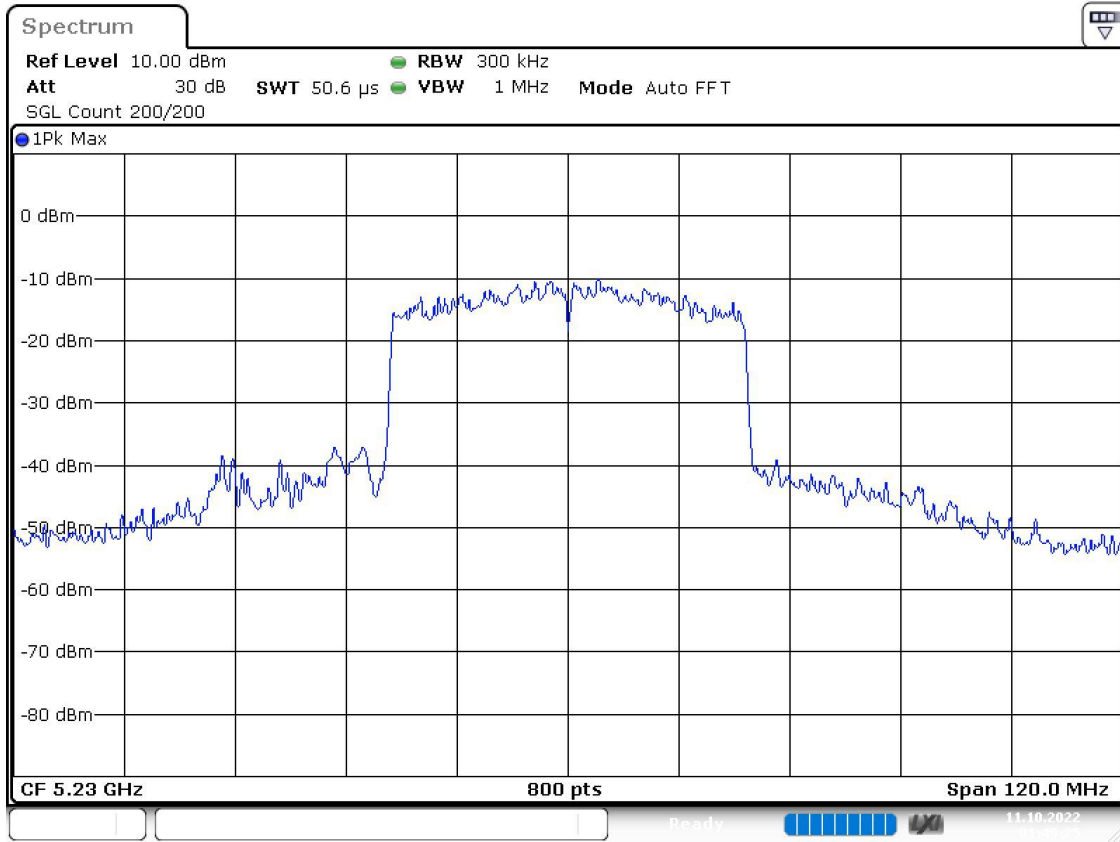
(continuation of the "26 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5230.000000	4.1	PASS

26 dB Bandwidth



Bandwidth



Date: 11.OCT.2022 01:49:25

## Occupied Channel Bandwidth 99% (5230 MHz; 24.000 dBm; 40 MHz)

Customized settings.

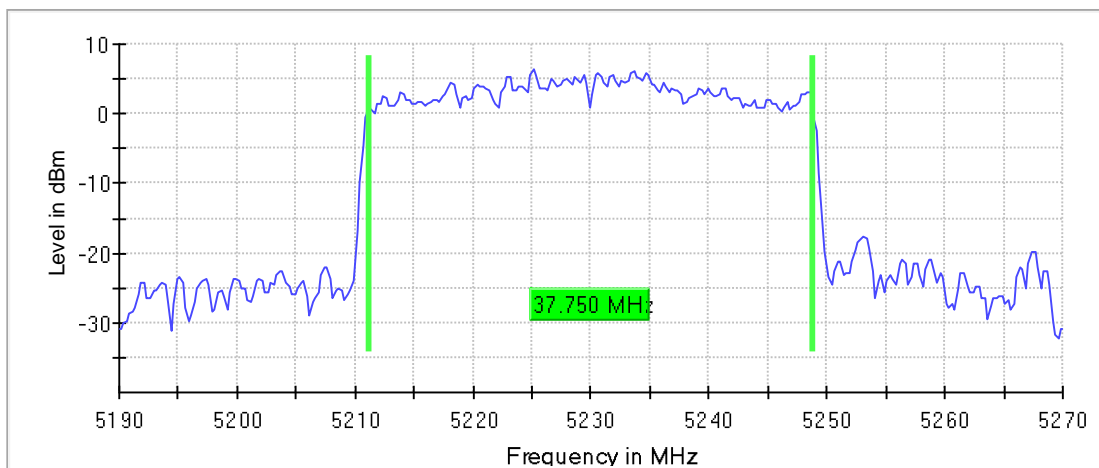
### 99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5230.000000	37.750000	---	---	5211.125000	5248.875000

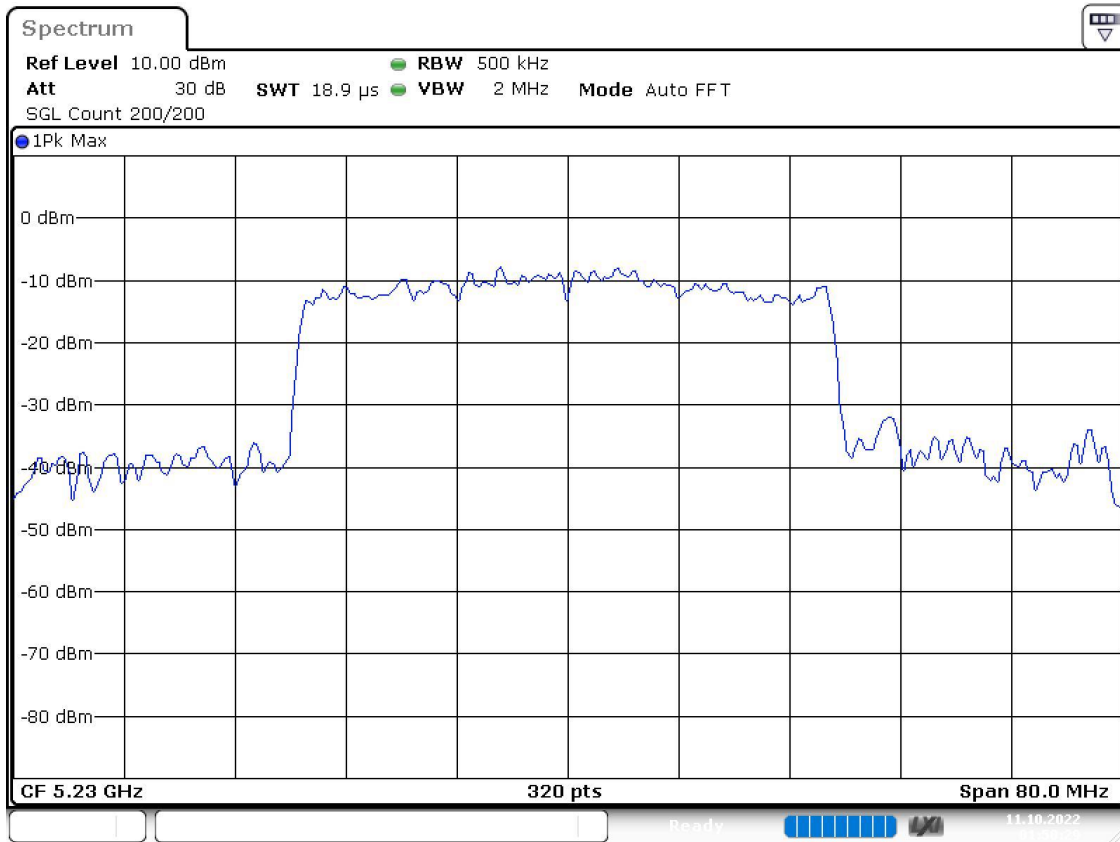
(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
5230.000000	PASS

99 % Bandwidth



Bandwidth



Date: 11.OCT.2022 01:50:30

## Emission Bandwidth 26 dB (5210 MHz; 24.000 dBm; 80 MHz)

Customized settings.

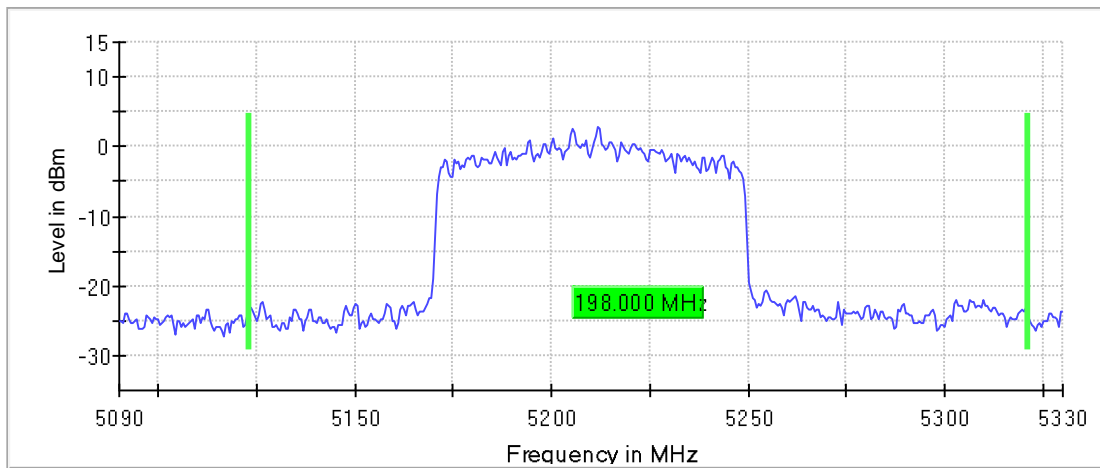
### 26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5210.000000	198.000000	---	---	5123.250000	5321.250000

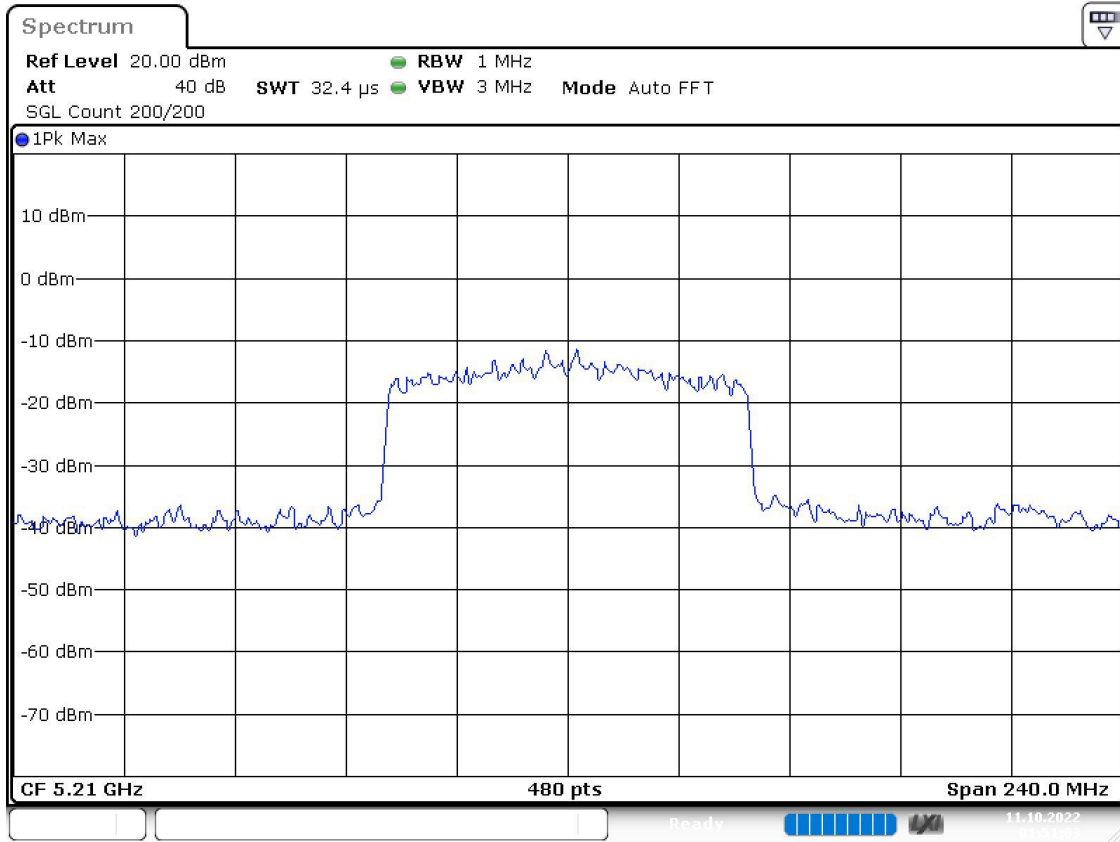
(continuation of the "26 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5210.000000	2.9	PASS

26 dB Bandwidth



Bandwidth



Date: 11.OCT.2022 01:51:03

## Occupied Channel Bandwidth 99% (5210 MHz; 24.000 dBm; 80 MHz)

Customized settings.

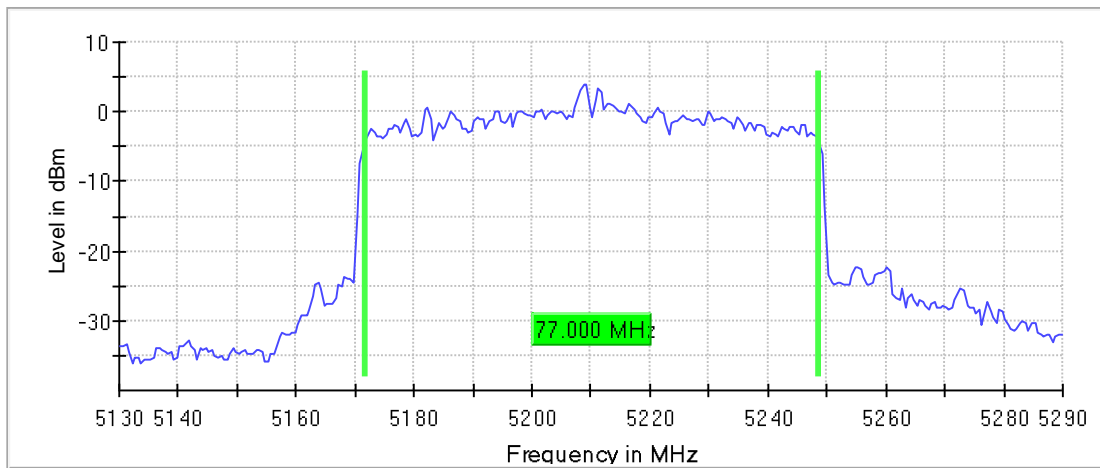
### 99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5210.000000	77.000000	---	---	5171.750000	5248.750000

(continuation of the "99 % Bandwidth" table from column 6 ...)

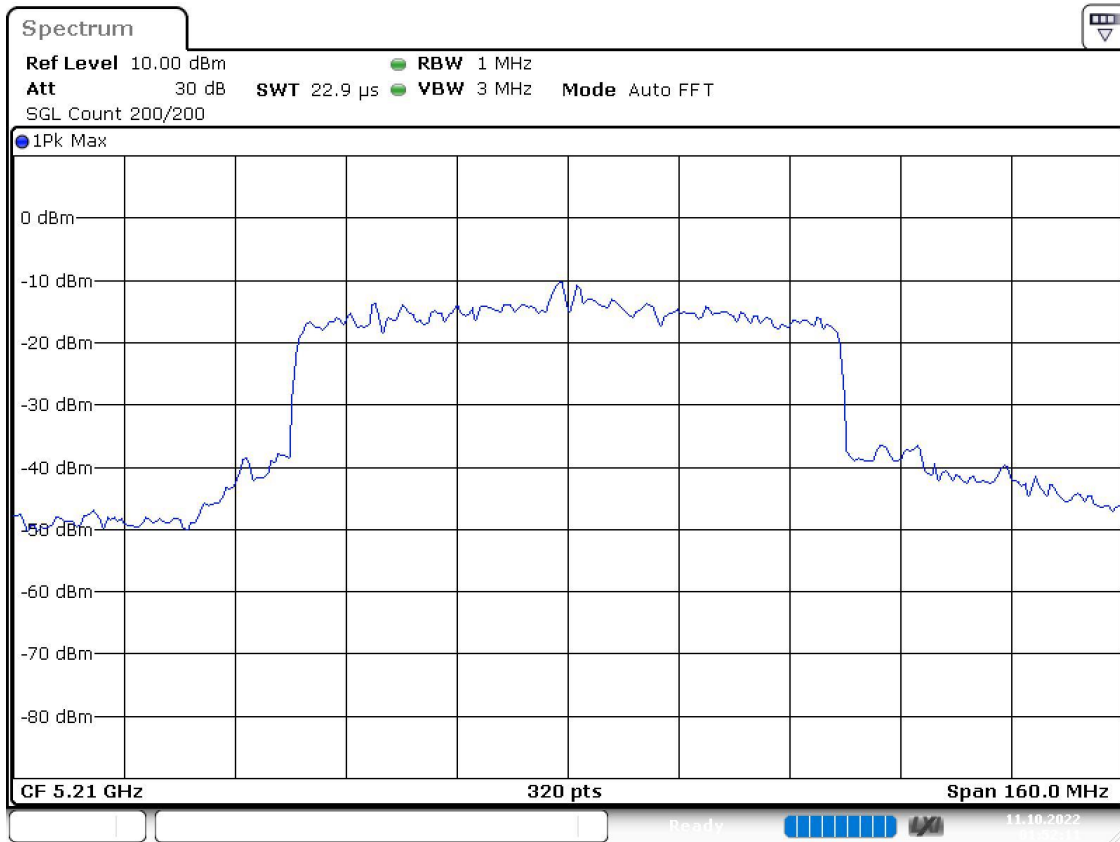
DUT Frequency (MHz)	Result
5210.000000	PASS

99 % Bandwidth



Bandwidth





Date: 11.OCT.2022 01:52:12

-- End of Test Report --