DEKRA Certification, Inc.
405 Glenn Dr. Suite 12,
Sterling, VA 20164
United States of America

FCC LISTED, REGISTRATION NUMBER: 2764.01

ISED LISTED REGISTRATION NUMBER: 23595-1

Test Report No:
4552ERM.021A1

Test report

USA FCC Part 15.407 (U-NII), 15.209; & CANADA RSS-247, RSS-Gen
Unlicensed National Information Infrastructure Devices. General technical requirements.
License-Exempt Radio Apparatus (All Frequency Bands): Category I Equipment.
General Requirements and Information for the Certification of Radio Apparatus.

(*) Identification of item tested	Display Audio Infotainment Unit
(*) Trademark	Visteon
(*) Model and /or type reference	VW REGIO FLOAT
Other identification of the product	FCC ID: NT8-VWREGIOFLOAT IC: 3043A-VWREGIOFLOAT HVIN: H04.1 FVIN: 0850
(*) Features	Features: a. USB 3.0 / USB Video, USB Video, USB Hub b. Bluetooth EDR 2.4GHz, Version 4.2 c. Audio BT streaming music, control and browsing d. Wireless 2.4GHz and 5GHz bands e. GNSS Receiver - GPS f. AM/FM single tuner, seek, scan and manual tunning g. Smartphone integration (Apple Car Play and Android Auto), Capability to run local APPs, e-Call
Manufacturer	Visteon Corporation One Village Center Drive, Van Buren Township, MI 48111, USA
Test method requested, standard	USA FCC Part 15.407 07-1-24 Edition : Unlicensed National Information Infrastructure Devices. General technical requirements. USA FCC Part 15.209 06-28-21 Edition: Radiated emission limits; general requirements. CANADA RSS-247 Issue 3 (August 2023). CANADA RSS-Gen Issue 5 (March 2019). 789033 D02 General UNII Test Procedures New Rules v02r01 Guidance for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.
Summary	IN COMPLIANCE
Approved by (name / position & signature)	Domingo Galvez EMC&RF Lab Manager Digitally signed by Domingo Galvez DN: cn=Domingo Galvez, o=Dekra Certification Inc., ou=Regulatory Lab Manager, email=domingo.galvez@dekra.com, c=US
Date of issue	01-10-2025
Report template No	FDT08_23 (*) “Data provided by the client”

Index

Acronyms

Acronym ID	Acronym Description
	Emission Bandwidth
# of Tx Chains	Number of Transmission Chains
Avg Power	Maximum Average Conducted Output Power
DC	Duty Cycle
Freq	Frequency
Max EIRP	Maximum Burst EIRP
Mod	Modulation
Mode	Mode
Occ Ch BW	Occupied Channel Bandwidth
Operation Band	Operation Band
PSD	Power Spectrum Density
Port	Active Port
TPC	TPC

Competences and guarantees

DEKRA Certification Inc. is a testing laboratory accredited by A2LA (The American Association for Laboratory Accreditation), to perform the tests indicated in the Certificate 2764.01 and CAB ID US0215.

DEKRA Certification Inc. is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA Certification Inc. has a calibration and maintenance program for its measurement equipment.

DEKRA Certification Inc. guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated on the report and, it is based on the knowledge and technical facilities available at DEKRA Certification at the time of performance of the test.

DEKRA Certification Inc. is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

IMPORTANT: No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA Certification Inc.

General conditions

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA Certification Inc.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA Certification Inc. and the Accreditation Bodies.

Uncertainty

Uncertainty (factor k=2) was calculated according to the DEKRA Certification internal document PODT000.

Test case	Frequency (MHz)	U (k=2)	Units
RF Power and PSD	5150-5850	0.88	dB
Occupied Bandwidth		1.87	%
Band Edge		0.64	dB
Radiated Spurious Emission	30-180	4.27	dB
	180-1000	3.14	dB
	1000-18000	3.30	dB
	18000-40000	3.49	dB

Data provided by the client

The following data has been provided by the client:

1. Information relating to the description of the sample ("Identification of the item tested", "Trademark", "Model and/or type reference tested").

2. The sample consists of a Display audio Infotainment Unit with capacitive touch screen with the following functionalities: USB 3.0 / USB Video, USB Video, USB Hub, Bluetooth EDR 2.4GHz, Version 4.2, Audio BT streaming music, control and browsing, Wireless 2.4GHz and 5GHz bands, GNSS Receiver - GPS, AM/FM single tuner, seek, scan and manual tunning, Smartphone integration (Apple Car Play and Android Auto), Capability to run local APPs, e-Call.

DEKRA declines any responsibility with respect to the information provided by the client and that may affect the validity of results.

Usage of samples

Samples undergoing test have been selected by: The client.

Sample S/01 is composed of the following elements, accessories and auxiliary equipment:

Id	Control Number	Description	Manufacturer / Model	Serial Nº	Date of Reception	Application
S/01	4552/02	Volkswagen Infotainment 10" Unit (Conducted)	Visteon / MIB Regio Float	VWZ7Z2C9203361	2024-09-30	Element Under Test
S/01	4555/06	Fakra USB Cable	-		2024-09-09	Accessory
S/01	4555/09	Visteon Skoda Test Panel 1	-	-	2024-09-09	Accessory
S/01	1482	Laptop	LENOVO / V14 G2 ITL	PF3QAFFH	-	Auxiliary

1. Sample S/01, was used for the following test(s): All Conducted tests indicated in appendix A.

Sample S/02 is composed of the following elements, accessories and auxiliary equipment:

Id	Control Number	Description	Manufacturer / Model	Serial Nº	Date of Reception	Application
S/02	4552/09	Volkswagen Infotainment 10" Unit	Visteon / MIB Regio Float	VWZ7Z2C9134311	2024-09-30	Element Under Test
S/02	4555/06	Fakra USB Cable	-		2024-09-09	Accessory
S/02	4555/09	Visteon Skoda Test Panel 1	-	-	2024-09-09	Accessory
S/01	1482	Laptop	LENOVO / V14 G2 ITL	PF3QAFFH	-	Auxiliary

2. Sample S/02, was used for the following test(s): All Radiated tests indicated in appendix A.

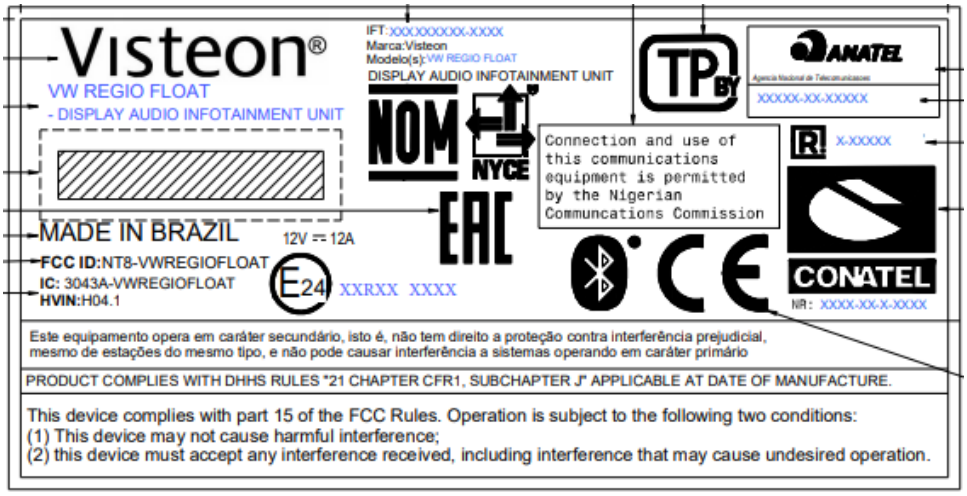
Test sample description

Test Sample description (compulsory information for EMC and RF testing services)

Ports..... :	Port name and description	Cable				
		Specified max length [m]	Attached during test	Shielded	Coupled to patient(3)	
	AM/FM Antenna connector (FAKRA)	1.5	[ ]	[ ]	[ ]	
	GPS Antenna connector (FAKRA)	1.0	[ ]	[ ]	[ ]	
	USB Video Port	0.1	[ ]	[ ]	[ ]	
	USB 3.0	0.1	[ ]	[ ]	[ ]	
	Main connector	-	[ ]	[ ]	[ ]	
	-	-	[ ]	[ ]	[ ]	
Supplementary information to the ports..... :	No Data Provided					
Rated power supply..... :	Voltage and Frequency		Reference poles			
			L1	L2	L3	N	PE
	[ ]	AC:	[ ]	[ ]	[ ]	[ ]	[ ]
	[ ]	AC:	[ ]	[ ]	[ ]	[ ]	[ ]
	[ ]	DC:					
	[X]	DC: 12V, 12A (vehicle battery)					
Rated Power..... :	sleep current: 350uA +-30uA; current in normal mode: 10A					
Clock frequencies ..... :	LVDS/TFT:76.8MHz / LPDDR4: 1.333GHz eMMC: 197MHz					
Other parameters..... :	No Data Provided					
Software version..... :	0850					
Hardware version..... :	H04.1					
Dimensions in cm (W x H x D)..... :	153.5x146.3x275.4 mm					
Mounting position..... :	[ ]	Table top equipment				
	[ ]	Wall/Ceiling mounted equipment				
	[ ]	Floor standing equipment				
	[ ]	Hand-held equipment				
	[X]	Other: Built into vehicle				
Modules/parts ..... :	Module/parts of test item		Type	Manufacturer		
	No Data Provided					
Accessories (not part of the test item) ..... :	Description		Type	Manufacturer		
	AM/FM/GPS Antenna					
	SMA Connector					
	USB Cable					
	Harness					

Documents as provided by the applicant ..... :	Description	File name	Issue date
	Test instructions		
	Technical Files		
	DUT Manual		
	FDT30_18 Declaration Equipment Data - R1 (1)		11/13/2024

Marking Label



Identification of the client

Visteon Corporation
One Village Center Drive, Van Buren Township,
MI 48111, USA

Testing period and place

Test Location	DEKRA Certification Inc.
Date (start)	10-08-2024
Date (finish)	10-16-2024

Document history

Report number	Date	Description
4552ERM.021	11-20-2024	First release.
4552ERM.021A1	01-10-2025	Second release. The “Test method requested, standard” line (Pag.01) is updated according to the new version of the Standard. The information for worst case for radiated spurious emission test result for Wi-Fi 5GHz is updated in the description of test conditions on page 15 and test result section on page 133. This modified test report cancels and replaces the report 4552ERM.021

Environmental conditions

In the control chamber, the following limits were not exceeded during the test:

Temperature	Min. = 15 ºC Max. = 35 ºC
Relative humidity	Min. = 30 % Max. = 75 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

In the semi anechoic chamber, the following limits were not exceeded during the test.

Temperature	Min. = 15 ºC Max. = 35 ºC
Relative humidity	Min. = 30 % Max. = 75 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

In the chamber for conducted measurements, the following limits were not exceeded during the test:

Temperature	Min. = 15 ºC Max. = 35 ºC
Relative humidity	Min. = 30 % Max. = 60 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

Remarks and comments

The tests have been performed by the technical personnel: Juliana Cherry, Ivy Yousuf Moutushi, Prudhvi Kothapalli, Fahim Tahiree, Yuqi Wang, Madhava Gooduru and Yuri Barone.

List of equipment used during the test

Conducted Measurements

Control Number	Description	Serial No	Last Calibration	Next Calibration
897	Power supply (AMETEK / PROG-DC-PS)	1707A01906	N/A	N/A
1039	FSV40 Signal Analyzer 40GHz	101627	2022-11-01	2024-11-01
1042	SMBV 100A Vector Signal Generator	262575	2022-11-01	2024-11-01
1313	Wireless Measurement Software R&S EMC32	-	N/A	N/A
1375	BT/WIFI WIRELESS COMMUNICATION TESTER	102629	2022-10-26	2024-10-26
1491	SMB 100B Signal Generator	17-1018070	2021-12-15	2024-12-15
1497	Espec Chamber UNIT	R21868-04	2022-12-20	2024-12-20

Radiated Measurements

Control Number	Description	Serial No	Last Calibration	Next Calibration
878	Power supply (AMETEK / PROG-DC-PS)	1707A01783	N/A	N/A
1012	ESR26 EMI Test Receiver	101478	2023-01-18	2025-01-18
1039	FSV40 Signal Analyzer 40GHz	101627	2022-11-01	2024-11-01
1056	3115 Double-Ridged Waveguide Horn Antenna 1-18 GHz	213179	2024-07-01	2027-07-01
1057	3115 Double-Ridged Waveguide Horn Antenna 1-18 GHz	211373	2023-07-18	2026-07-18
1064	3142E Biconilog Antenna	208600	2021-12-13	2024-12-13
1108	Ethernet SNMP Thermometer- CR Room	60038026954	2022-10-18	2024-10-18
1111	Ethernet SNMP Thermometer- SAC	60038026577	2022-10-18	2024-10-18
1179	Semi anechoic Absorber Lined Chamber	F169021	N/A	N/A
1314	Wireless Measurement Software R&S EMC32	-	N/A	N/A
1461	Low Noise Preamplifier (1-18GHz)	2213857B	2024-06-06	2026-06-06

Testing verdicts

Fail	F
Not applicable	N/A
Not measured	N/M
Pass	P

Summary

FCC PART 15 PARAGRAPH / RSS-247			
Requirement	**Test case**	**Verdict**	**Remark**
FCC 15.407 (a) / RSS-247 6.2	Power Limits. Maximum Output Power	P	
FCC 15.407 (a) / RSS-247 6.2	Maximum Power Spectral Density	P	
FCC 2.1049 / RSS-Gen 6.7	99% Occupied Bandwidth	P	
FCC 15.403 / RSS-Gen 6.7	26 dB Emission Bandwidth	P	
FCC 15.407 (b) / RSS-247 6.2	Band-edge Conducted Emissions	P	
FCC 15.407 (e) / RSS 247 6.2.4.1	6 dB Emission Bandwidth	P	Refer 1
FCC 15.407 (b), 15.205 & 15.209 / RSS-Gen 8.9 & 8.10	Undesirable radiated emissions	P	

Supplementary information and remarks:

1. Only applicable to sub-band U-NII-3: 5.725 - 5.85 GHz.

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Appendix A: Test results

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PRODUCT INFORMATION

(*): The following information is provided by the client

Information	Description
Equipment type	Wi-Fi 5 GHz a/n
TPC Function	No
Operating Frequency Range	5150 - 5250 MHz 5250 – 5350 MHz 5470 – 5725 MHz 5725 – 5825 MHz
Nominal Channel Bandwidth	20/ 40 MHz
Antenna type	Internal
RF Output Power	18 dBm
Antenna gain	0 dBi
Supply Voltage	12 Vdc
Modulation:	OFDM (QPSK, BPSK,16QAM,64QAM,256QAM,1024QAM)
Transmit Data Rate:	802 .11 a/n Rates: IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps IEEE 802.11n: MCS0-7
Geo-location capability	No

TEST CONDITIONS

(*): Data provided by the client.

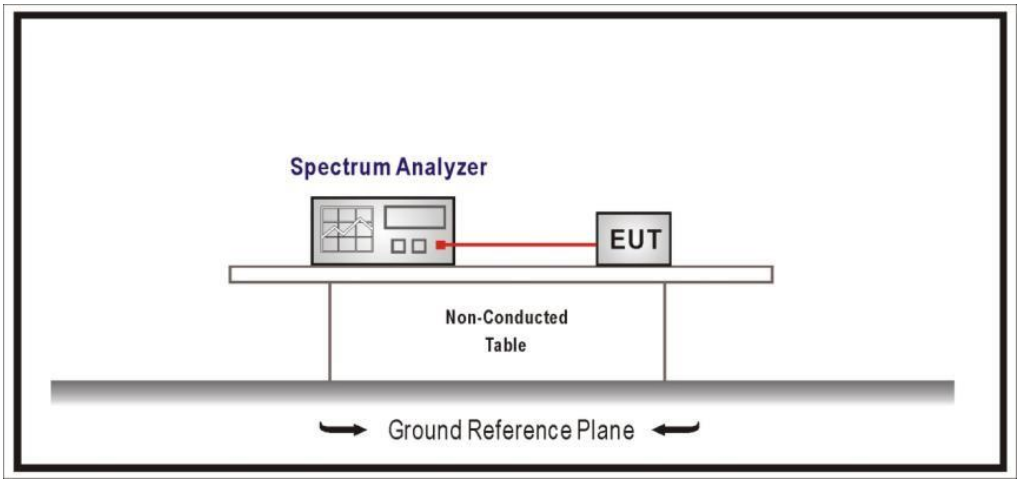
TEST CONDITIONS	DESCRIPTION
TC#01(1) **(a mode)**	Power supply (V): $V_{nominal}$ = 12 Vdc Channel Bandwidth: 20 MHz Test Frequencies for Conducted/Radiated tests: (Radio A) UNII-1: Lowest channel: 5180 MHz Middle channel: 5200 MHz Highest channel: 5240 MHz UNII-2A: Lowest channel: 5260 MHz Middle channel: 5280 MHz Highest channel: 5320 MHz UNII-2C: Lowest channel: 5500 MHz Middle channel: 5580 MHz Highest channel: 5700 MHz UNII-3: Lowest channel: 5745 MHz Middle channel: 5785 MHz Highest channel: 5825 MHz

TEST CONDITIONS	DESCRIPTION
TC#02(1) **(n mode)**	Power supply (V): $V_{nominal}$ = 12 Vdc Channel Bandwidth: 20 MHz Test Frequencies for Conducted tests: (Radio A) UNII-1: Lowest channel: 5180 MHz Middle channel: 5200 MHz Highest channel: 5240 MHz UNII-2A: Lowest channel: 5260 MHz Middle channel: 5280 MHz Highest channel: 5320 MHz UNII-2C: Lowest channel: 5500 MHz Middle channel: 5580 MHz Highest channel: 5700 MHz UNII-3: Lowest channel: 5745 MHz Middle channel: 5785 MHz Highest channel: 5825 MHz Channel Bandwidth: 40 MHz Test Frequencies for Conducted/Radiated tests: (Radio A) UNII-1: Lowest channel: 5190 MHz Highest channel: 5230 MHz UNII-2A: Lowest channel: 5270 MHz Highest channel: 5310 MHz UNII-2C: Lowest channel: 5510 MHz Middle channel: 5550 MHz Highest channel: 5670 MHz UNII-3: Lowest channel: 5755 MHz Highest channel: 5795 MHz

Note (1): For spurious emissions for OFDM modes 802.11a, 802.11n20 and 802.11n40 a preliminary scan was performed to determine the worst case. The following tables and plots show the worst case for the modulation of 802.11a and 802.11n40, hence 802.11n20 is not shown.

The data rates of 6Mb/s for 802.11a and MCS0 for 802.11n40 were selected based on preliminary testing that identified those rates corresponding to the worst cases.

CONDUCTED MEASUREMENTS:



RADIATED MEASUREMENTS:

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna is situated at 3 m for the frequency range 30-1000 MHz (Bilog antenna) and 1-18 GHz Double ridge horn antennas, and 1m for the frequency range 18 GHz- 40 GHz Double ridge horn antenna.

For radiated emissions in the range 18 - 40 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360º and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.

The field strength is calculated by adding correction factor to the measured level from the spectrum analyzer. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.

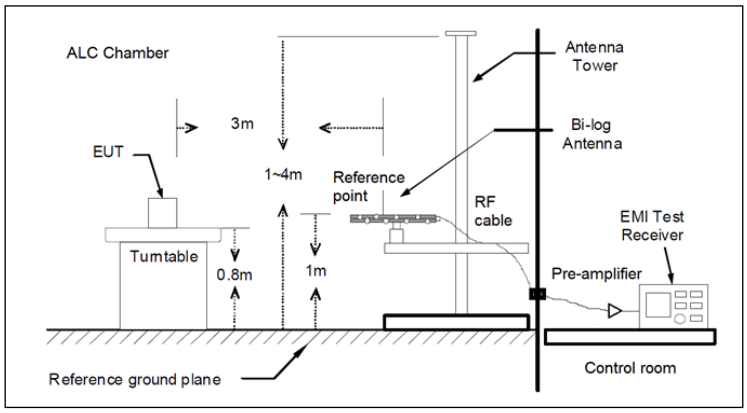


Fig A1: Radiated measurements Setup f < 1 GHz

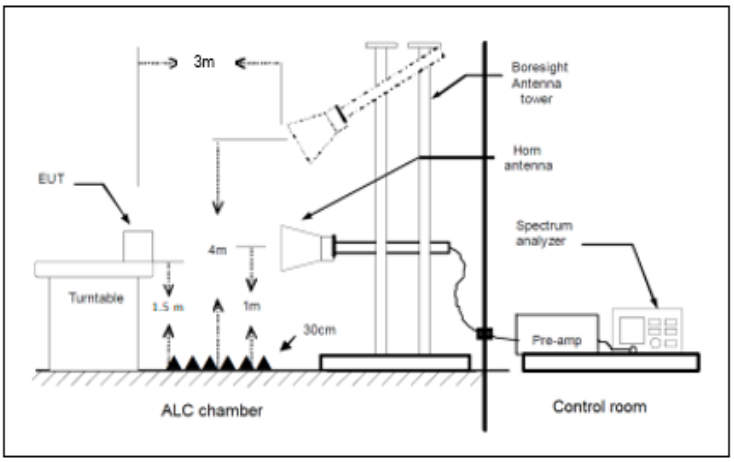


Fig A2: Radiated measurements setup f > 1-18 GHz

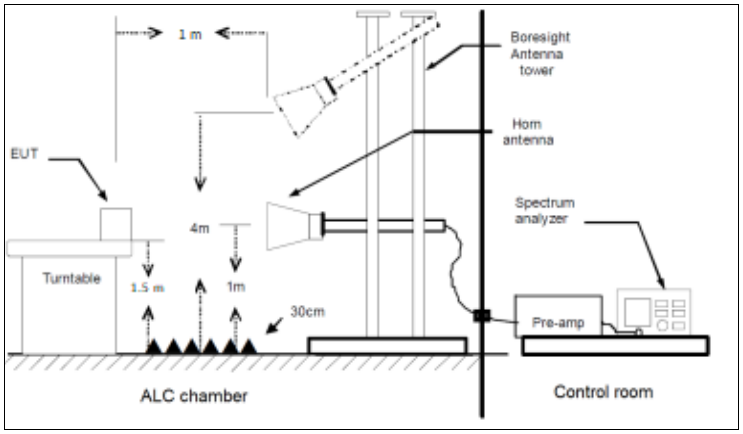


Fig A3: Radiated measurements setup f > 18 GHz

TEST CASES DETAILS

FCC 15.407 (a) / RSS-247 6.2 Power Limits. Maximum Output Power

Limits

FCC 15.407:

For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of 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.

For the band 5.725-5.850 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 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.

RSS-247:

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or 1.76 + 10 $\log_{10}$B, dBm, whichever is less. Devices shall implement TPC in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

For devices other than devices installed in vehicles:

For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW (23 dBm) or 10 + 10 $\log_{10}$ B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

For the 5.25-5.35 GHz, 5.470-5.6 GHz, and 5.650-5.725 GHz bands, the maximum conducted output power shall not exceed 250 mW (24 dBm) or 11 + 10 $\log_{10}$B, dBm, whichever power is less. The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log10B, dBm, whichever is less
For the band 5.725-5.850 GHz, the maximum conducted output power shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the output power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Modulation: 802.11a (OFDM 6 Mbit/s)
Results

Antenna Gain: 0 dBi

Pigtail loss: 0.8 dB

Freq (MHz)	Avg Power (dBm)	Max EIRP (dBm)
5180.00000	12.4	13.2
5200.00000	12.2	13.0
5240.00000	13.6	14.4
5260.00000	11.0	11.8
5280.00000	10.6	11.4
5320.00000	11.4	12.2
5500.00000	12.2	13.0
5580.00000	11.4	12.2
5700.00000	8.4	9.2
5745.00000	13.8	14.6
5785.00000	12.9	13.7
5825.00000	11.7	12.5

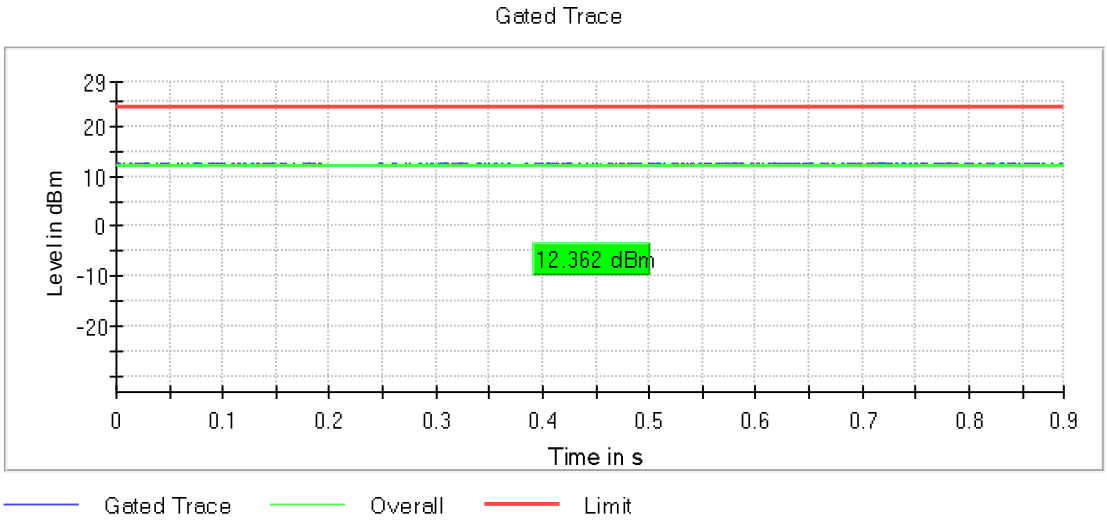
Verdict

Pass

Attachments

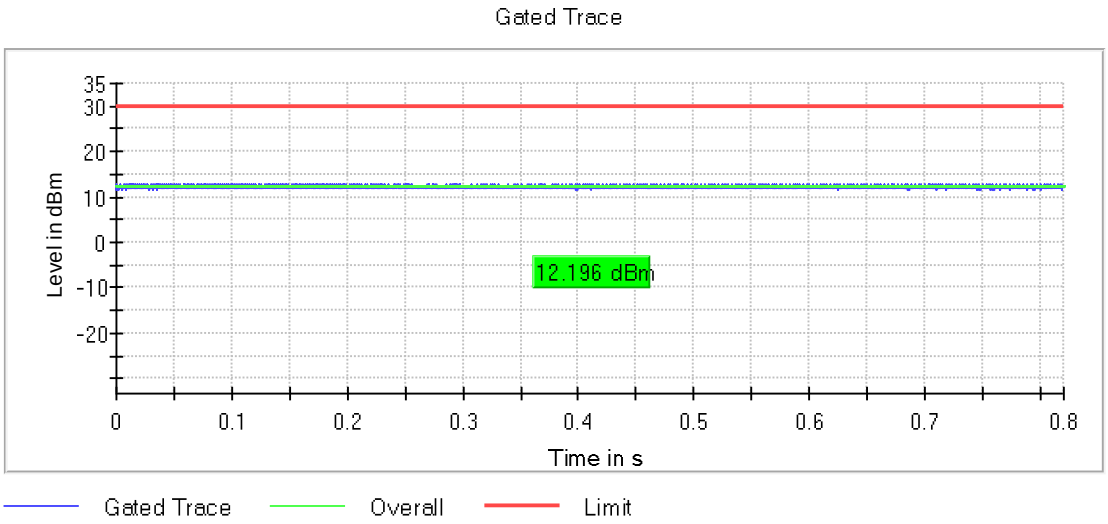
Frequency MHz = 5180.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



Frequency MHz = 5200.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



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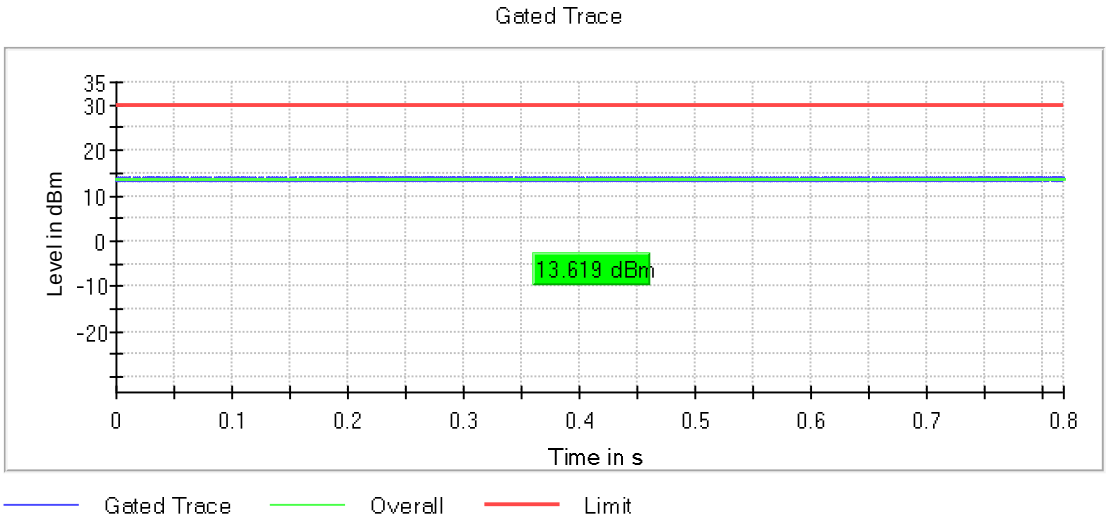
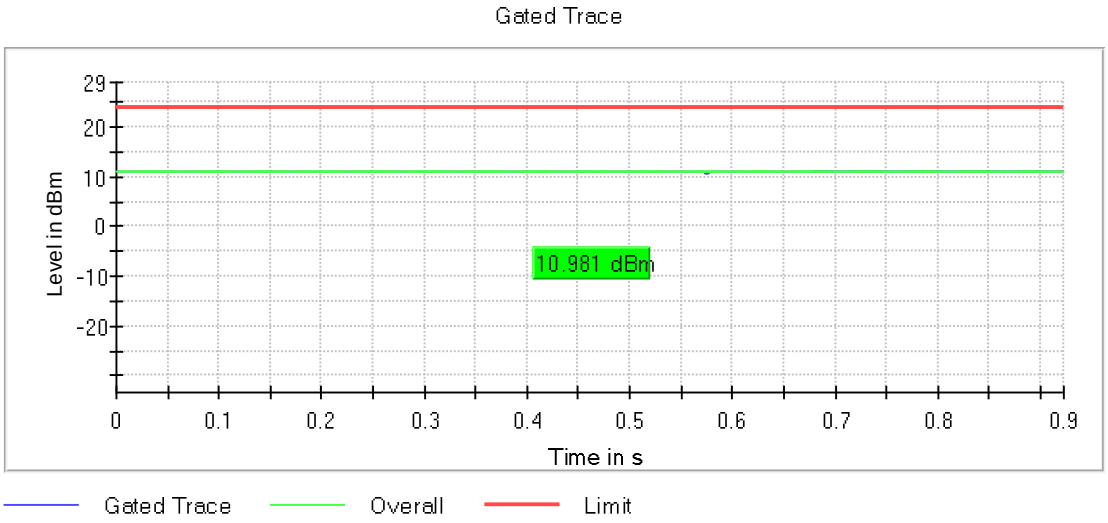
Images:



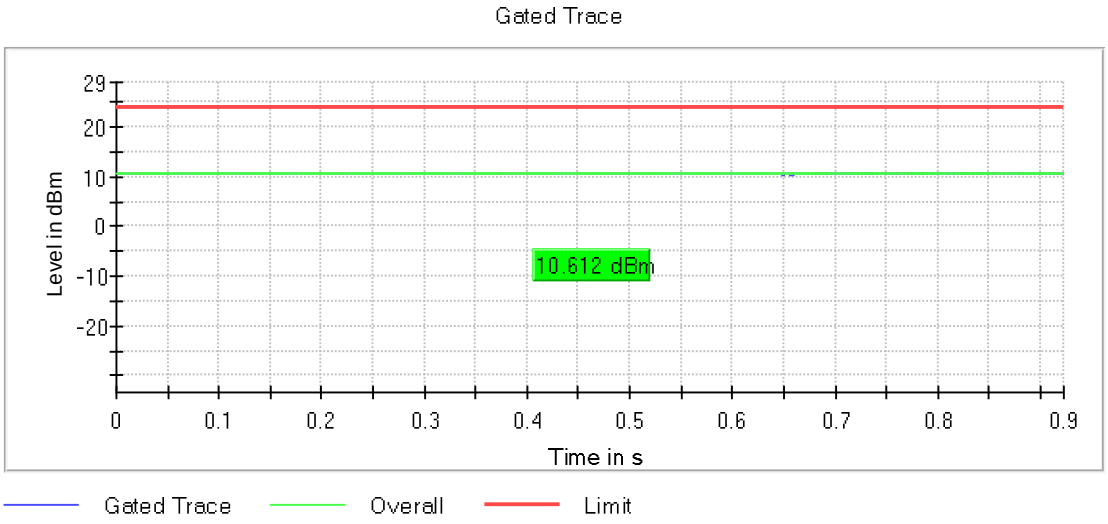
Frequency MHz = 5260.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



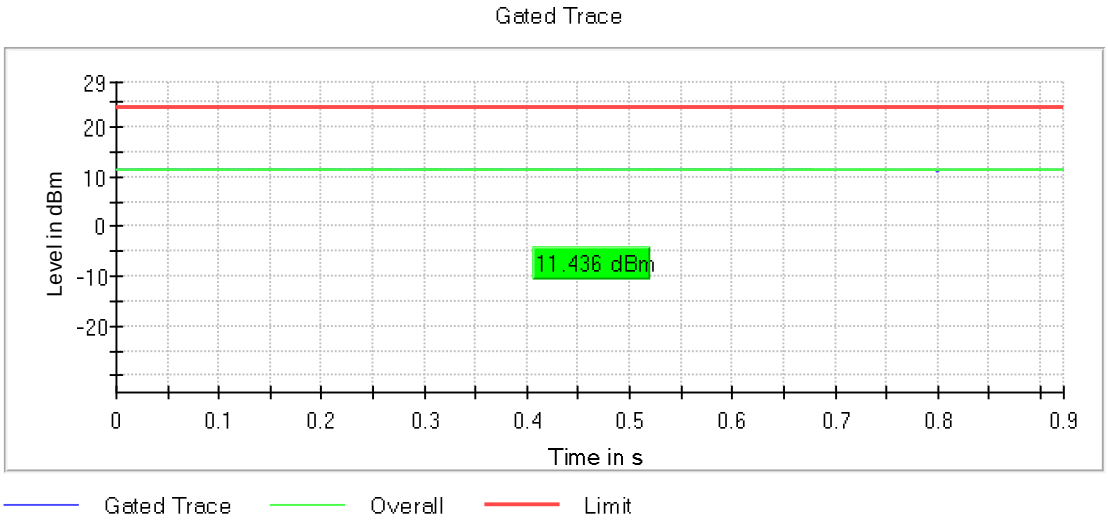
Frequency MHz = 5280.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



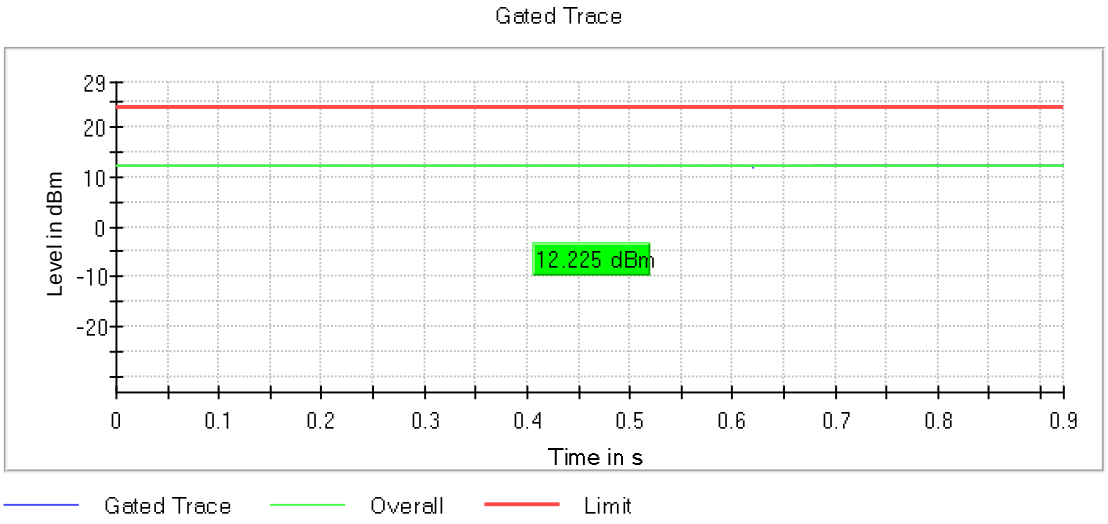
Frequency MHz = 5320.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



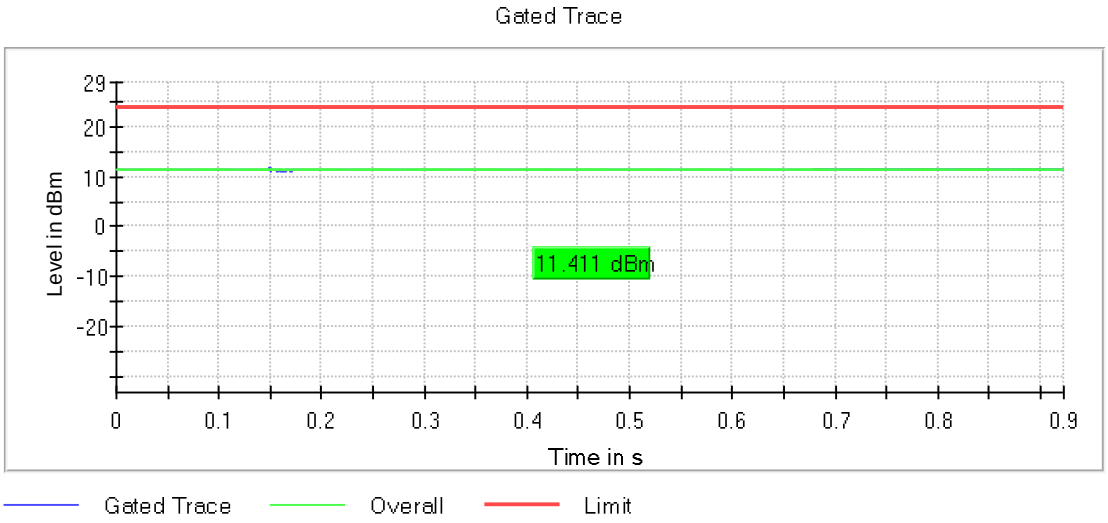
Frequency MHz = 5500.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



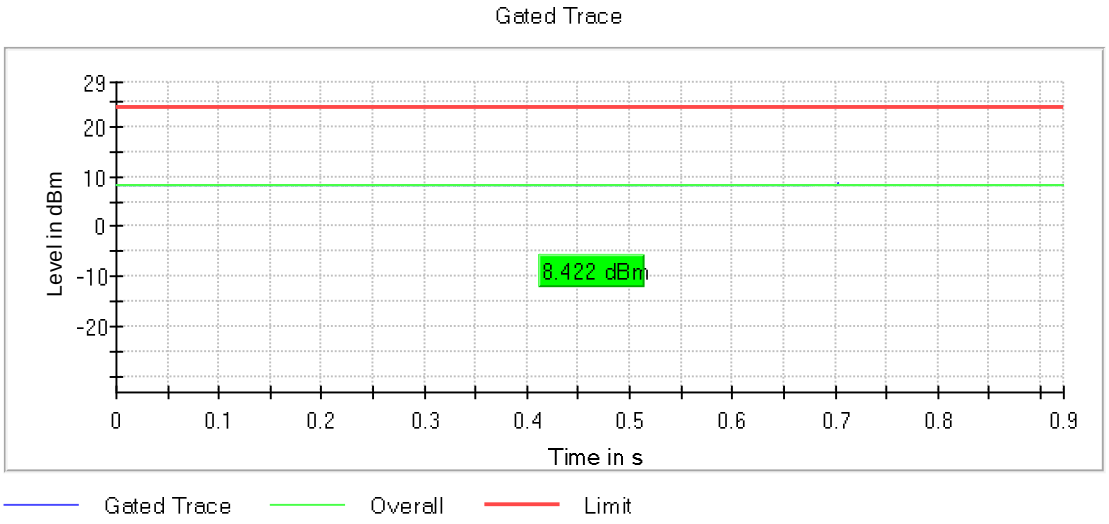
Frequency MHz = 5580.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



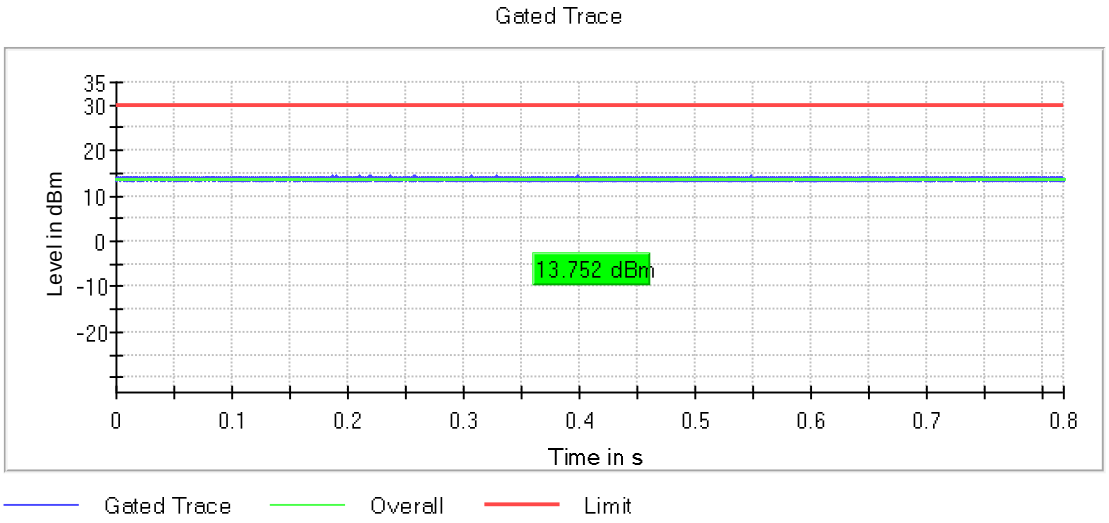
Frequency MHz = 5700.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



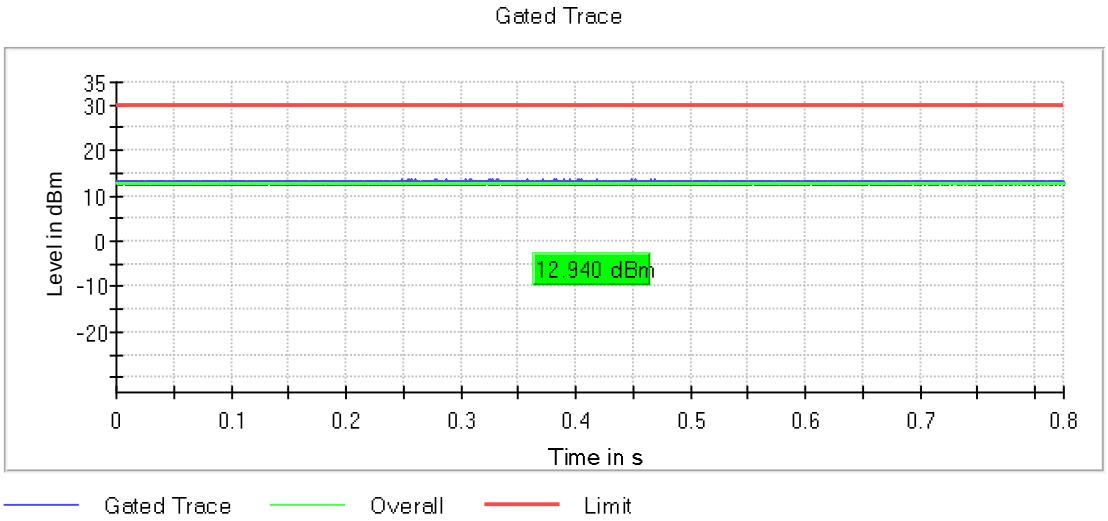
Frequency MHz = 5745.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



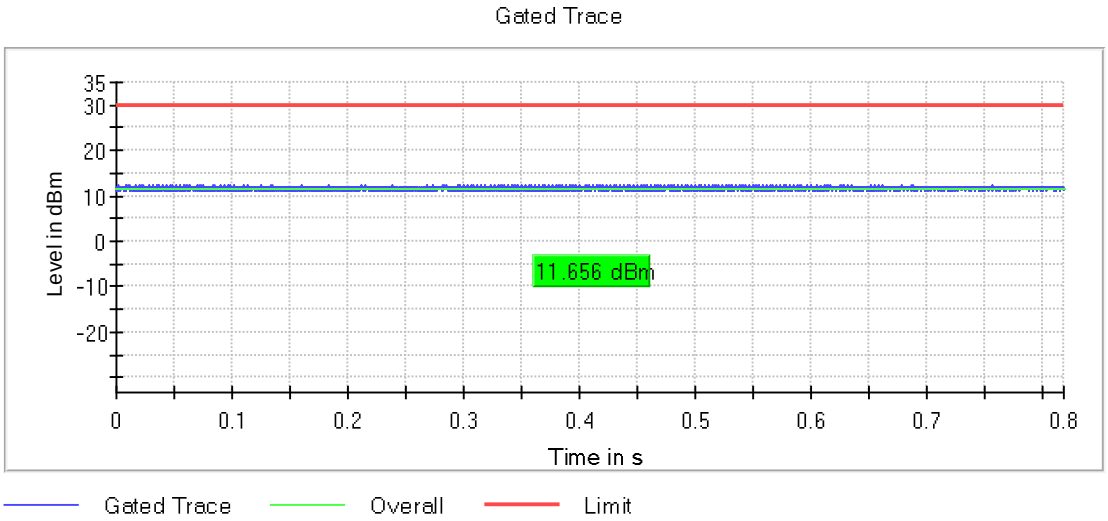
Frequency MHz = 5785.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



Frequency MHz = 5825.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



Modulation: 802.11n HT20 (OFDM MCS0)
Results

Antenna Gain: 0 dBi

Pigtail loss: 0.8 dB

Freq (MHz)	Avg Power (dBm)	Max EIRP (dBm)
5180.00000	6.0	6.8
5200.00000	5.4	6.2
5240.00000	6.6	7.4
5260.00000	7.2	8.0
5280.00000	6.7	7.5
5320.00000	7.6	8.4
5500.00000	8.5	9.3
5580.00000	8.4	9.2
5700.00000	6.6	7.4
5745.00000	6.5	7.3
5785.00000	7.6	8.4
5825.00000	6.5	7.3

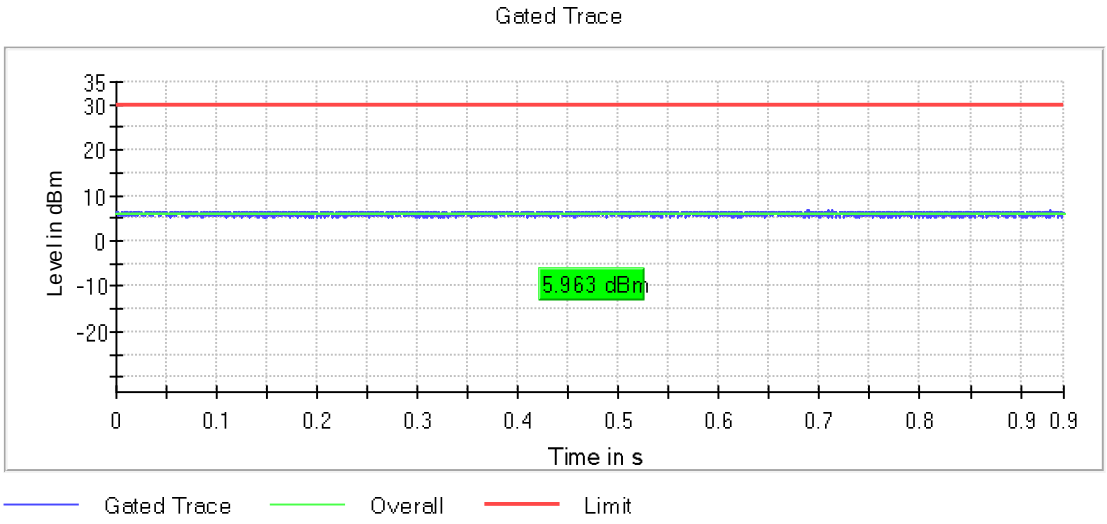
Verdict

Pass

Attachments

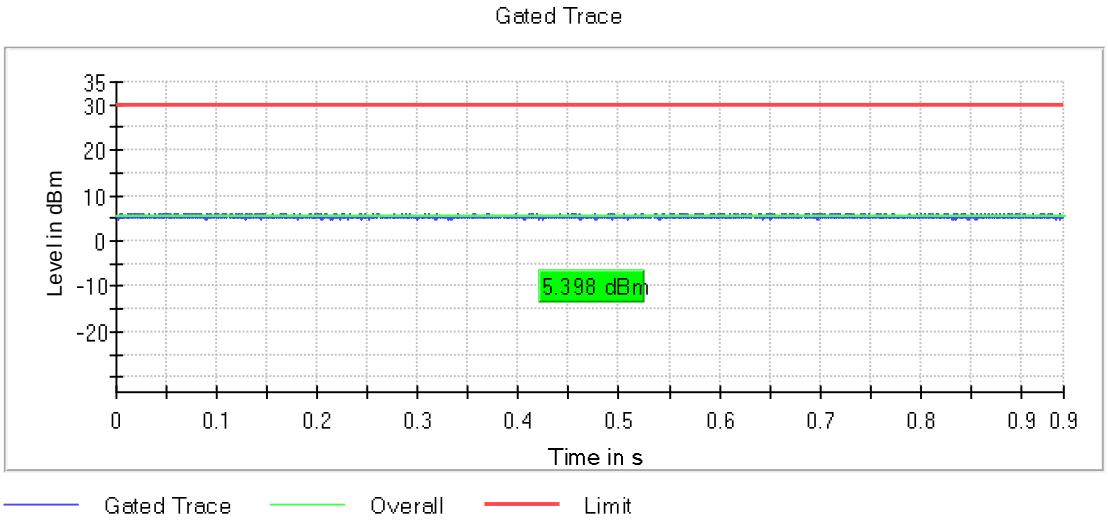
Frequency MHz = 5180.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



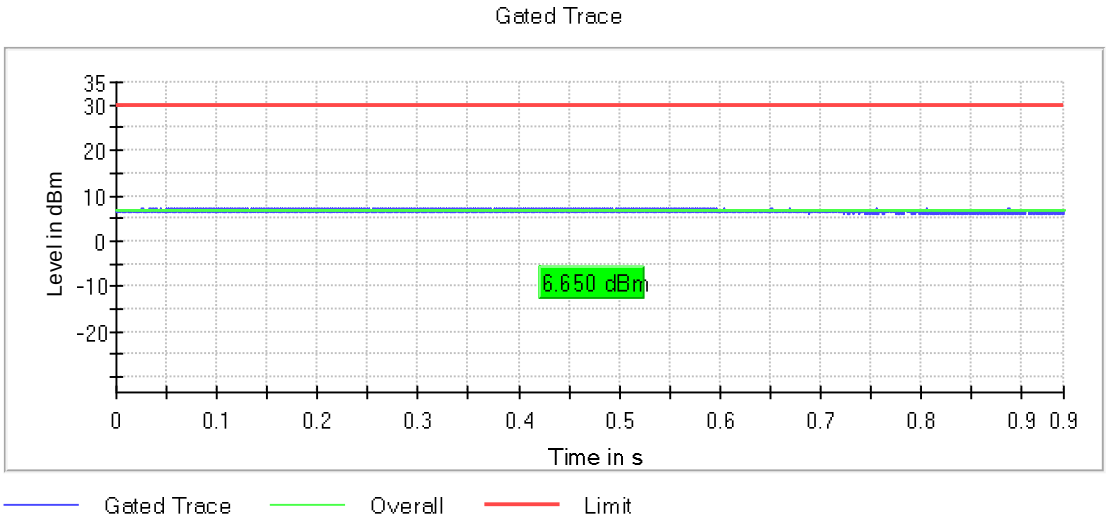
Frequency MHz = 5200.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



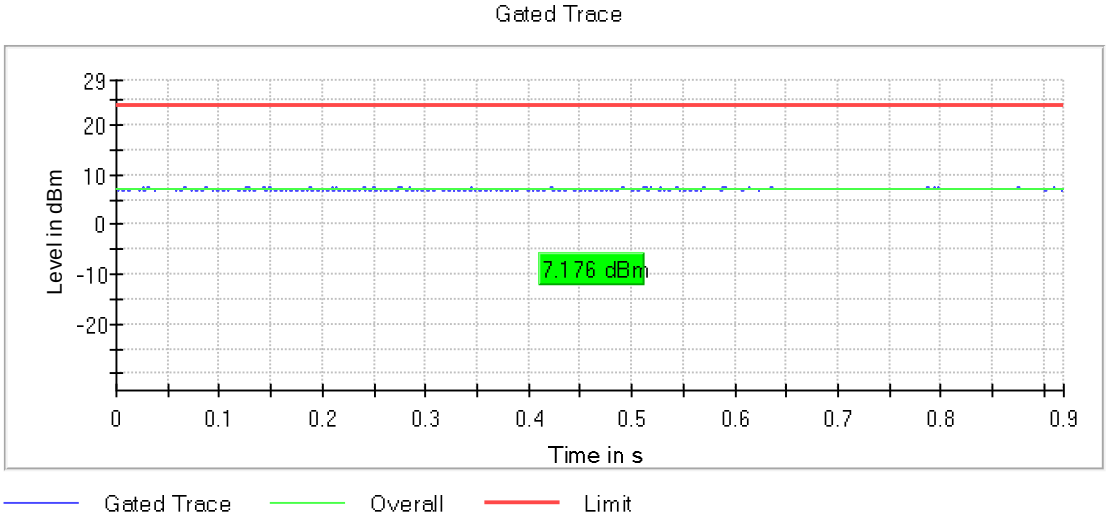
Frequency MHz = 5240.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



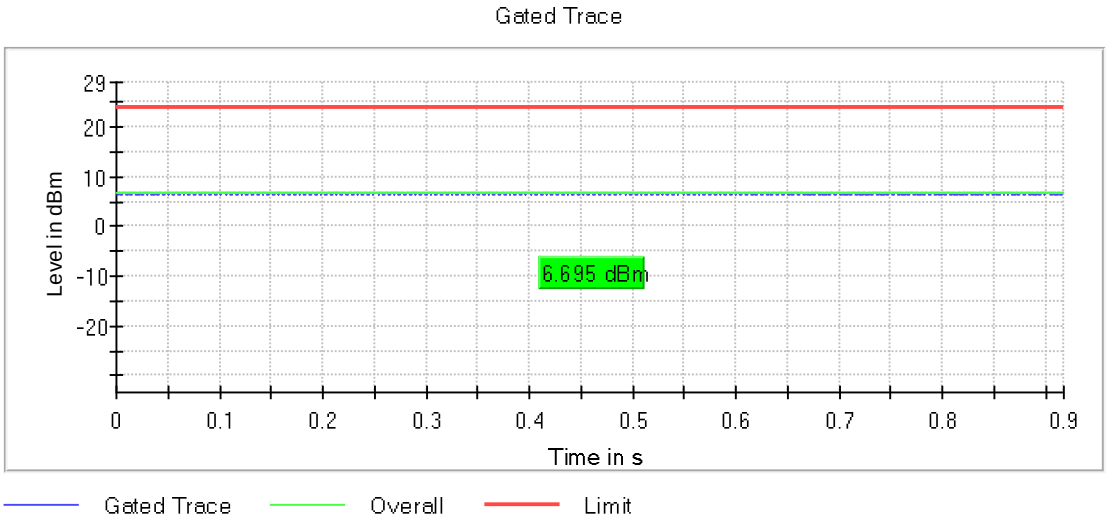
Frequency MHz = 5260.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



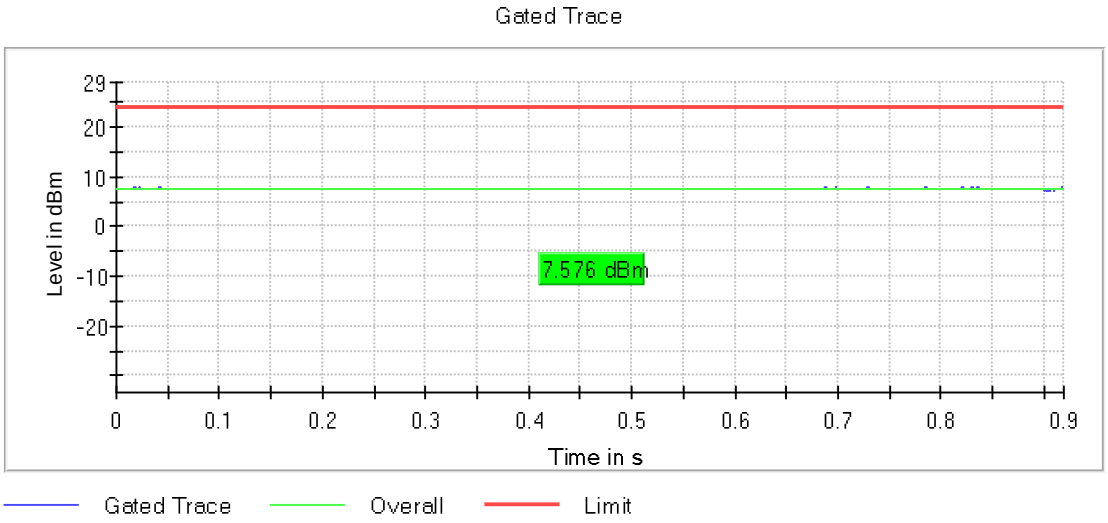
Frequency MHz = 5280.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



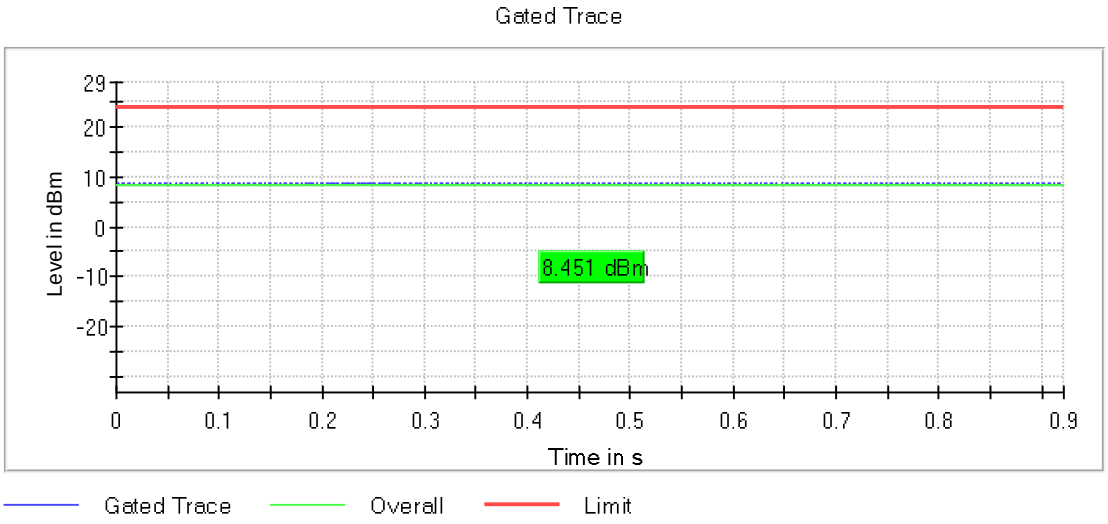
Frequency MHz = 5320.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



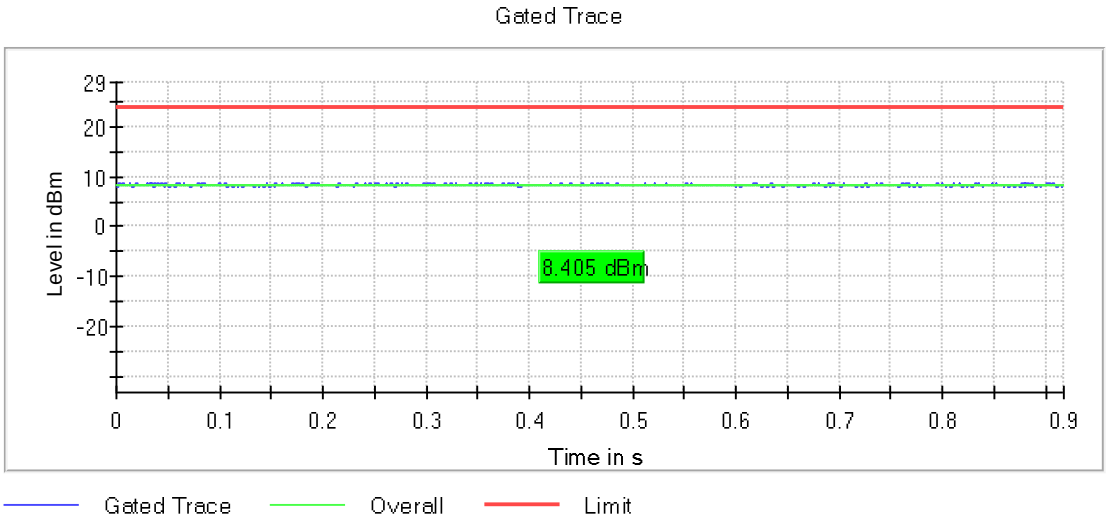
Frequency MHz = 5500.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



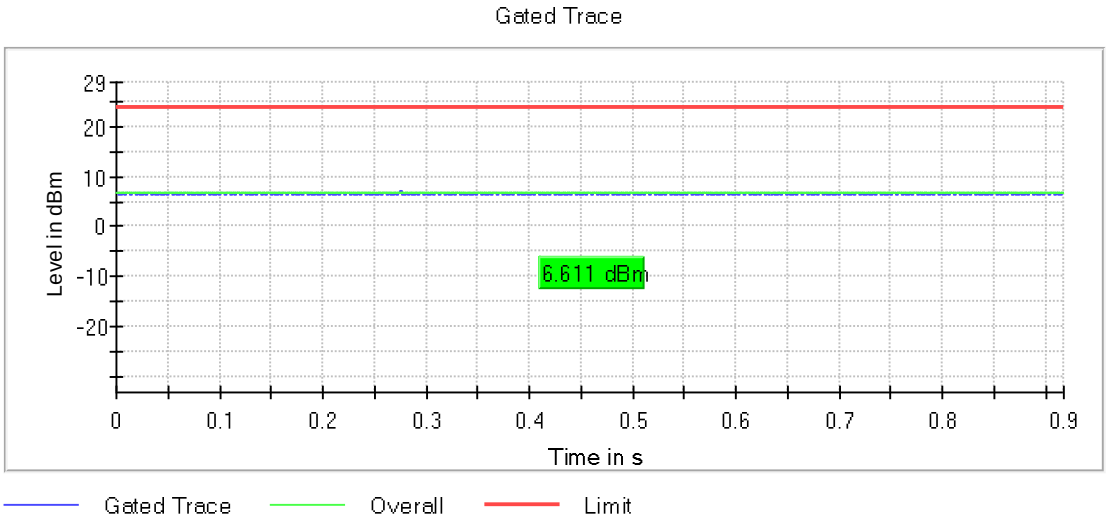
Frequency MHz = 5580.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



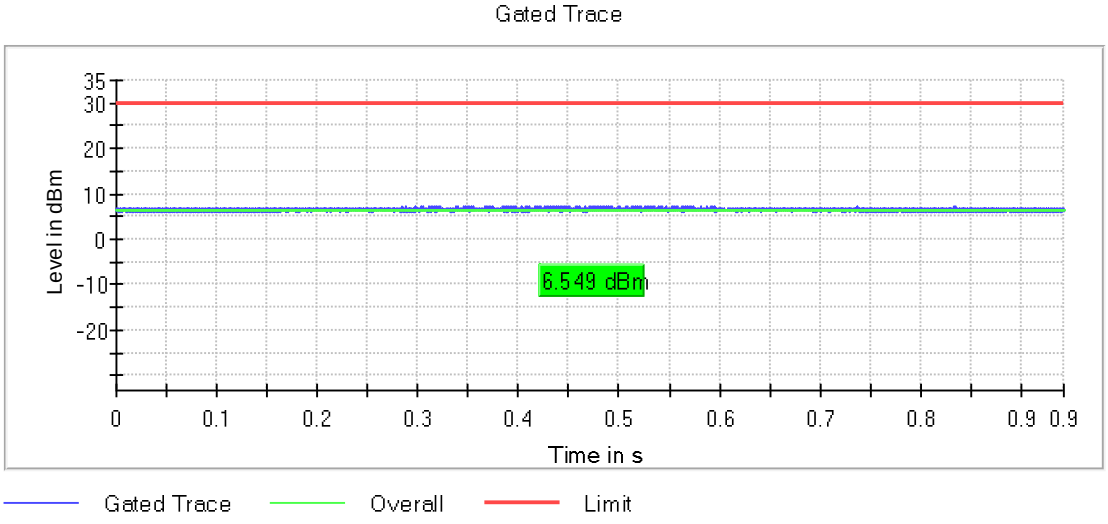
Frequency MHz = 5700.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



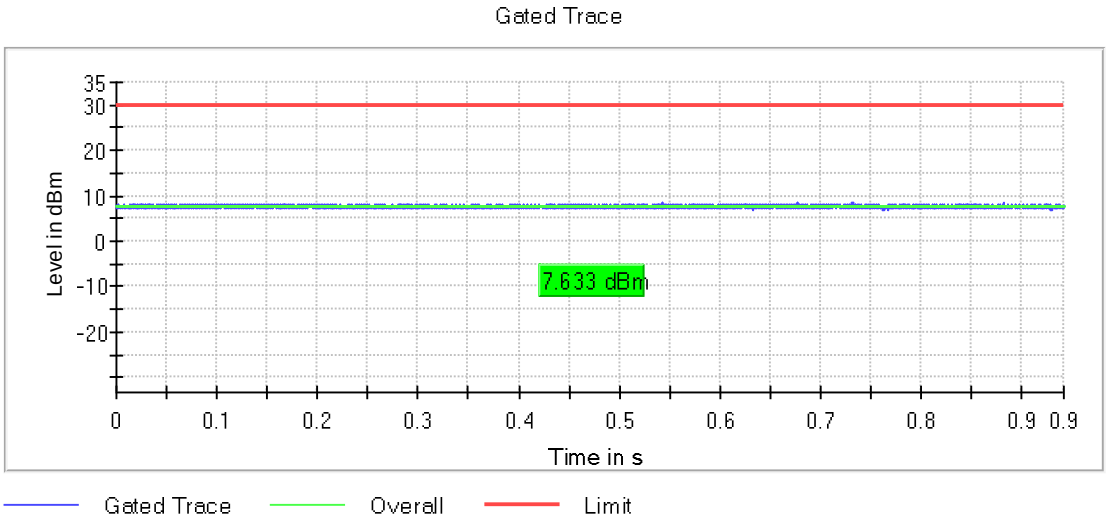
Frequency MHz = 5745.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



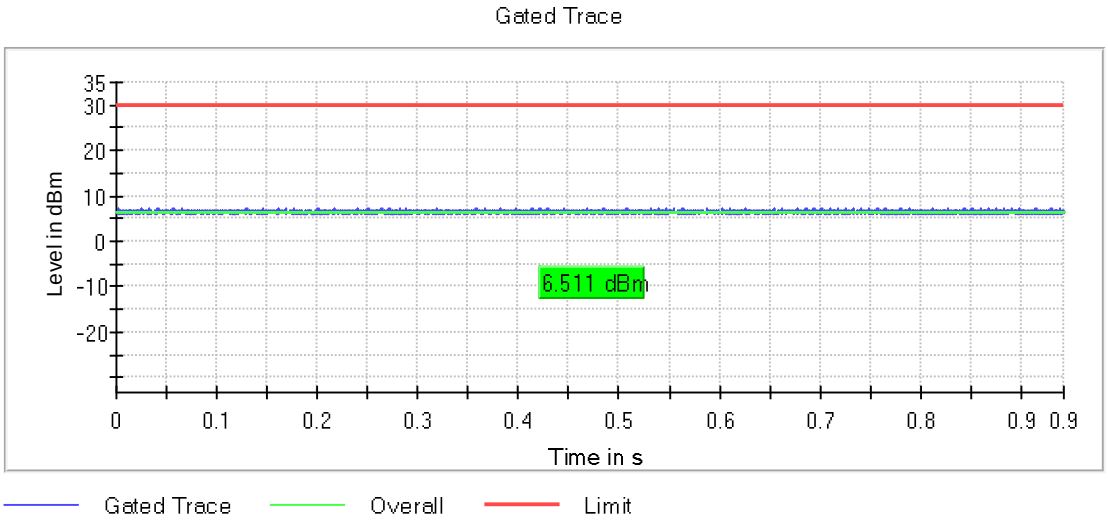
Frequency MHz = 5785.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



Frequency MHz = 5825.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



Modulation: 802.11n HT40 (OFDM MCS0)
Results

Freq (MHz)	Avg Power (dBm)	Max EIRP (dBm)
5190.00000	2.9	3.7
5230.00000	5.5	6.3
5270.00000	6.2	7.0
5310.00000	6.5	7.3
5510.00000	8.1	8.9
5550.00000	8.4	9.2
5670.00000	7.9	8.7
5755.00000	6.1	6.9
5795.00000	6.8	7.6

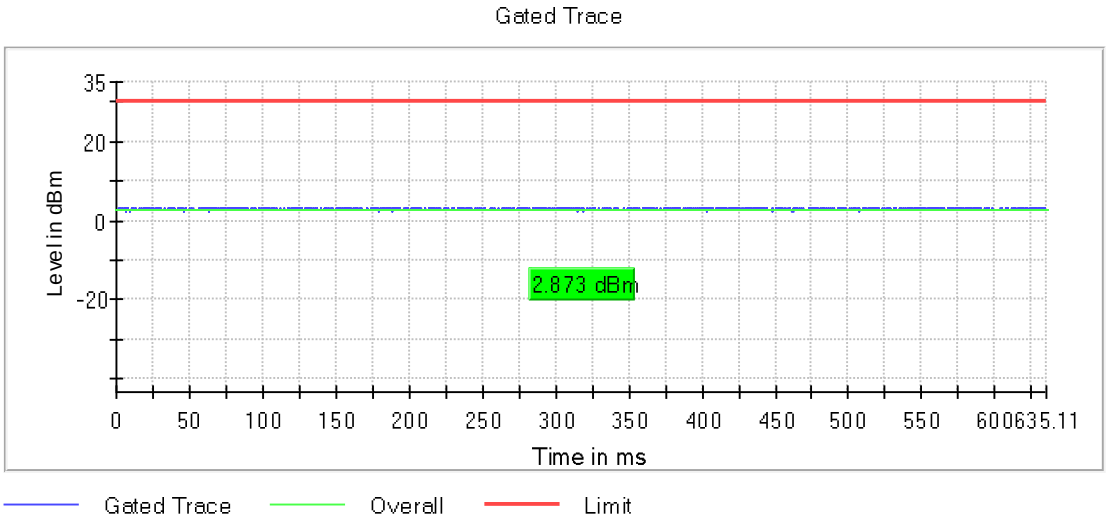
Verdict

Pass

Attachments

Frequency MHz = 5190.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:

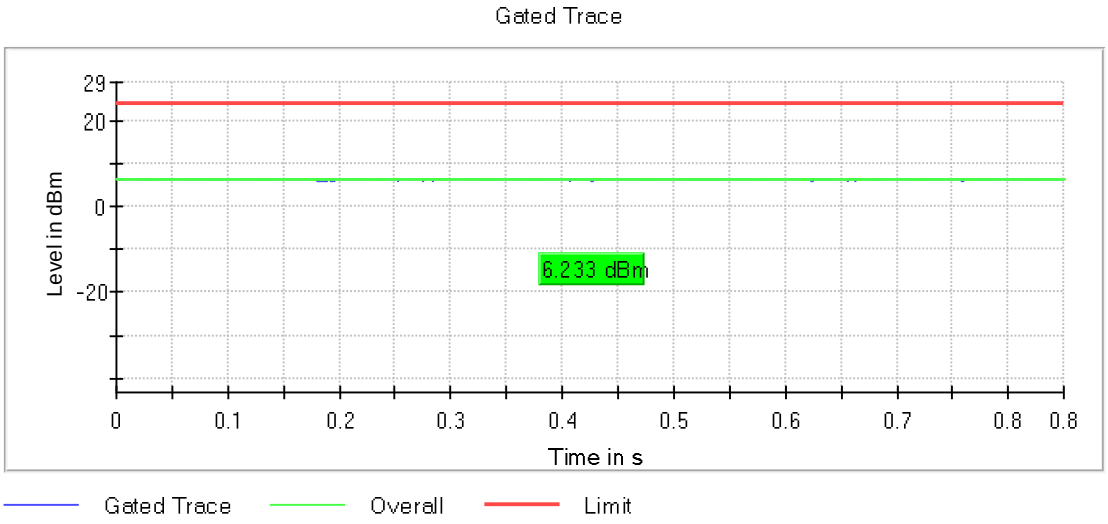


Frequency MHz = 5230.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:

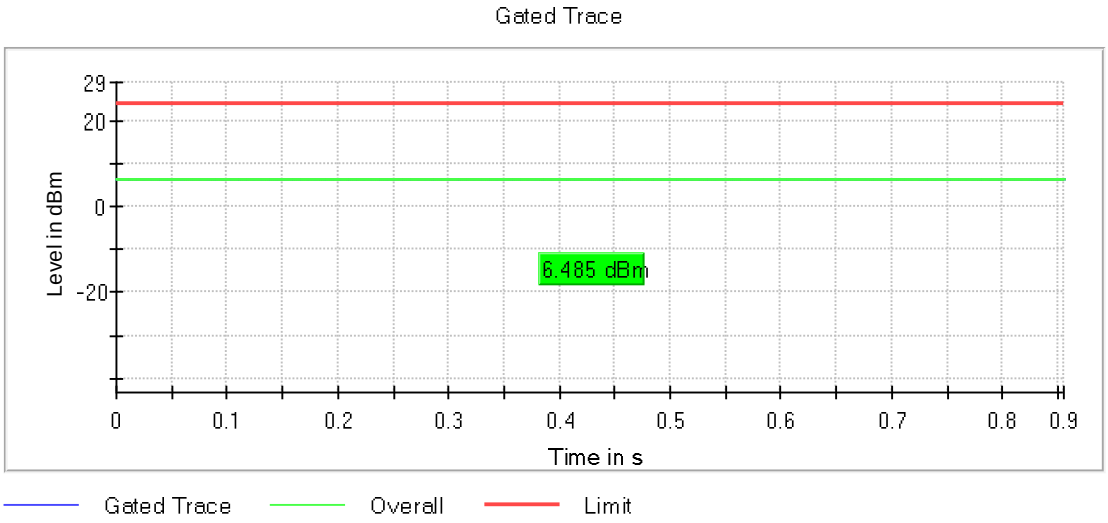
Frequency MHz = 5270.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:



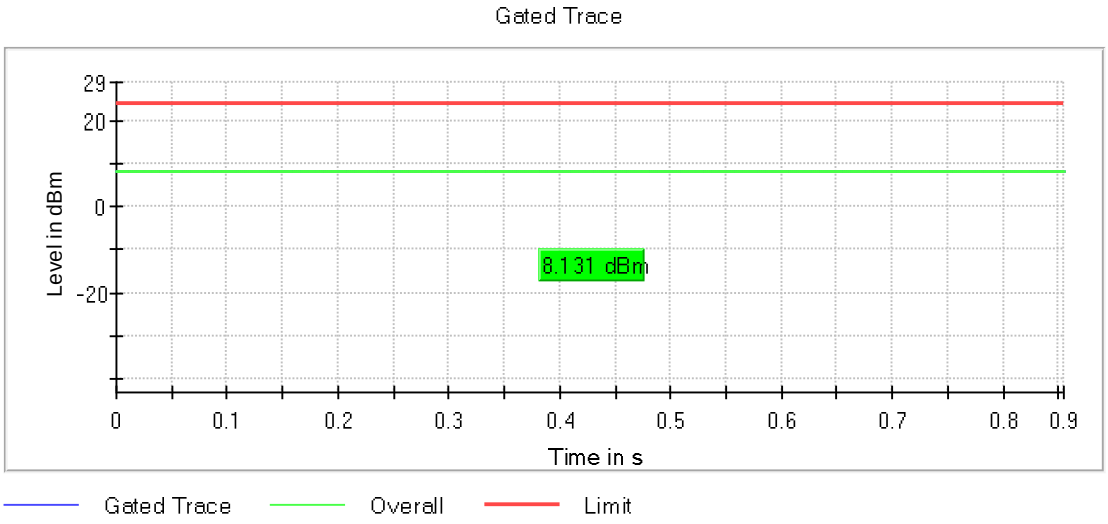
Frequency MHz = 5310.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:



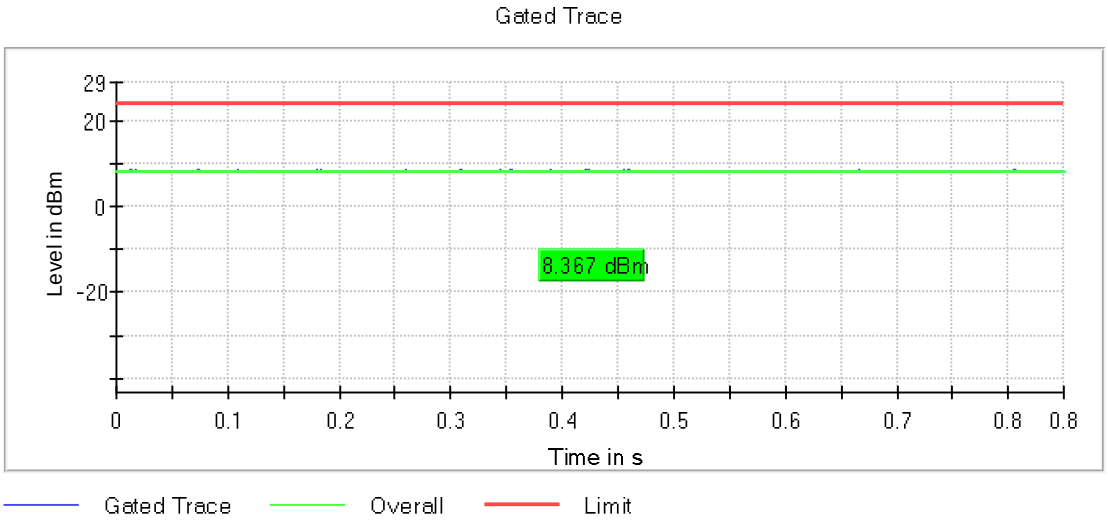
Frequency MHz = 5510.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:



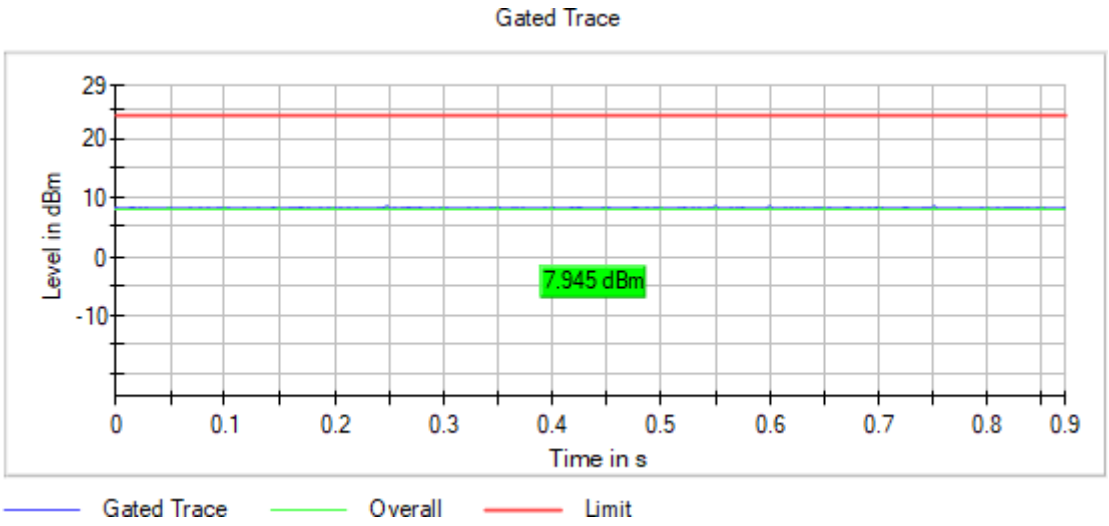
Frequency MHz = 5550.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:



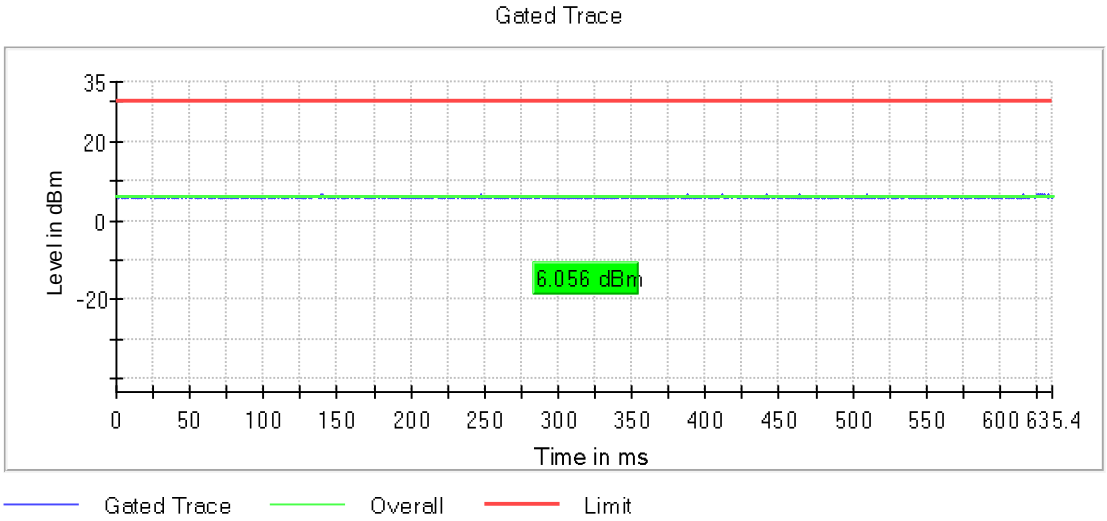
Frequency MHz = 5670.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:



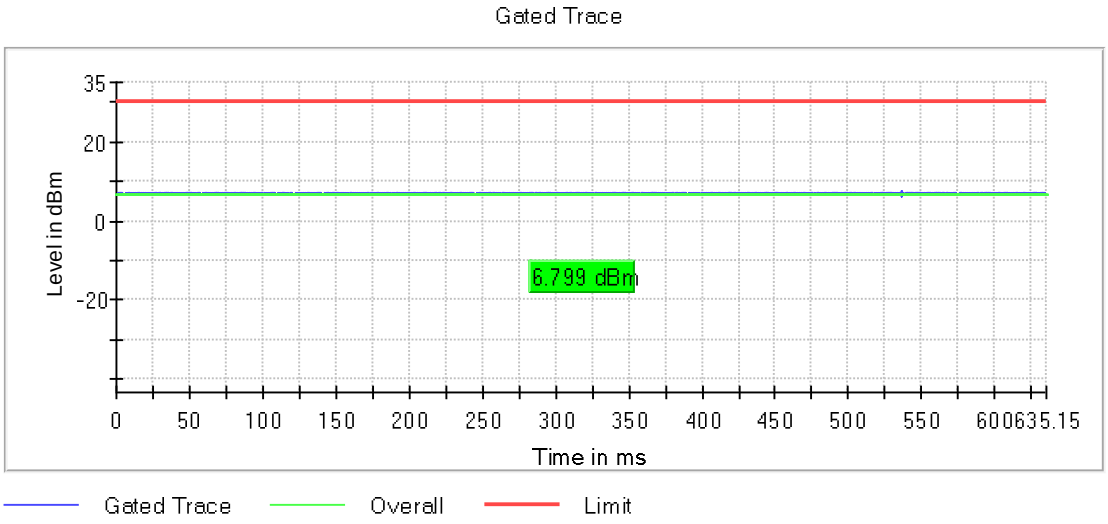
Frequency MHz = 5755.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:



Frequency MHz = 5795.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:



Tables:
Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 µs	1.000 µs

FCC 15.407 (a) / RSS-247 6.2 Maximum Power Spectral Density

Limits

FCC 15.407:

The maximum power spectral density shall not exceed 17 dBm in any 1-megahertz band. If transmitting antennas of 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.

RSS-247: For the 5.25-5.35 GHz, 5.470-5.6 GHz, and 5.650-5.725 GHz bands, the power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

For the band 5.725-5.850 GHz, the output power spectral density shall not exceed 30 dBm in any 500 kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the output power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Modulation: 802.11a (OFDM 6 Mbit/s)

Results

Test Freq (MHz)	Marker Freq (MHz)	PSD (dBm)
5180.00000	5178.811881	3.120
5200.00000	5200.990099	3.444
5240.00000	5241.188119	4.877
5260.00000	5259.009901	1.167
5280.00000	5281.386139	0.844
5320.00000	5321.188119	1.706
5500.00000	5501.584158	3.367
5580.00000	5579.009901	5.345
5700.00000	5701.188119	-1.063
5745.00000	5746.188119	2.948
5785.00000	5785.594059	2.060
5825.00000	5825.594059	0.656

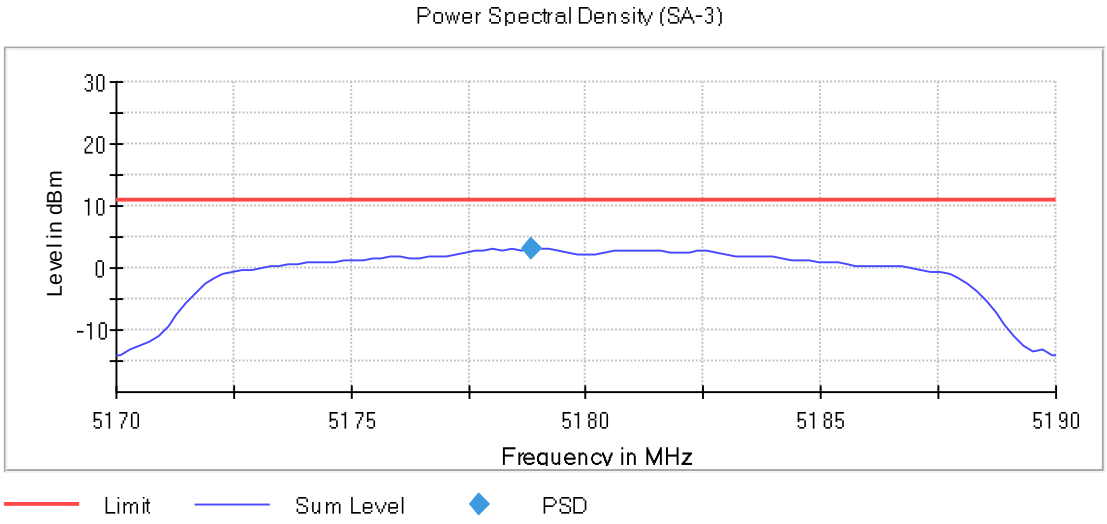
Verdict

Pass

Attachments

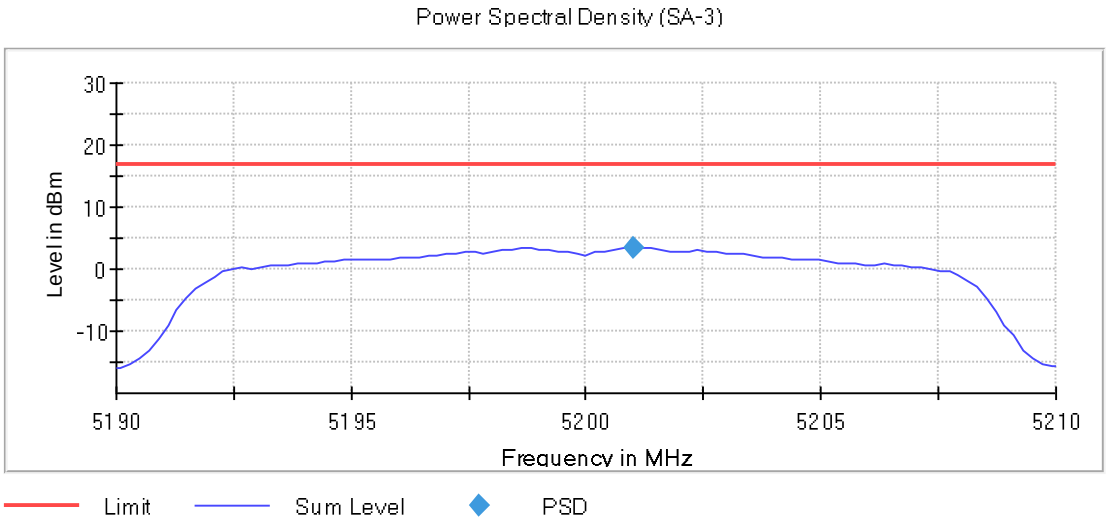
Frequency MHz = 5180.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



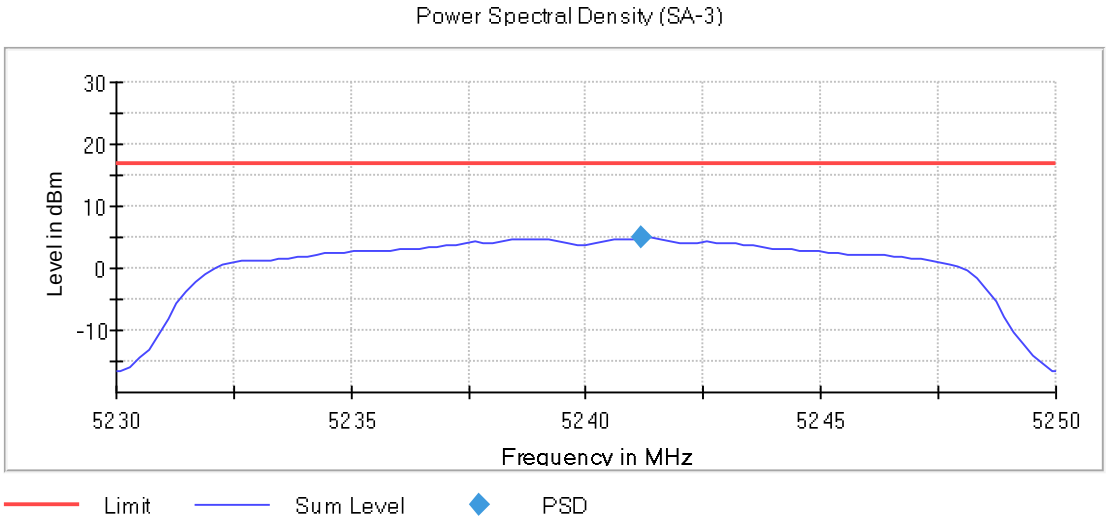
Frequency MHz = 5200.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



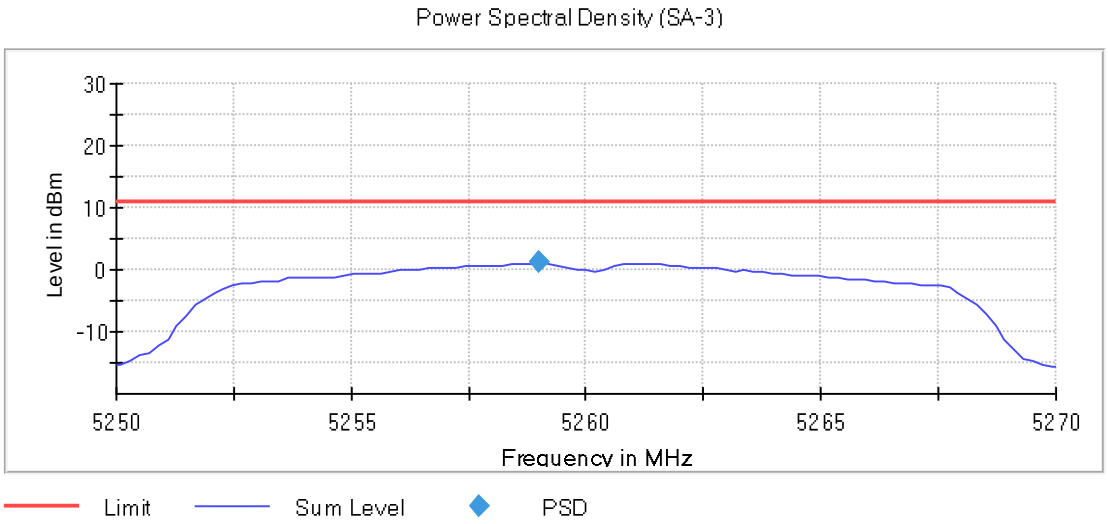
Frequency MHz = 5240.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



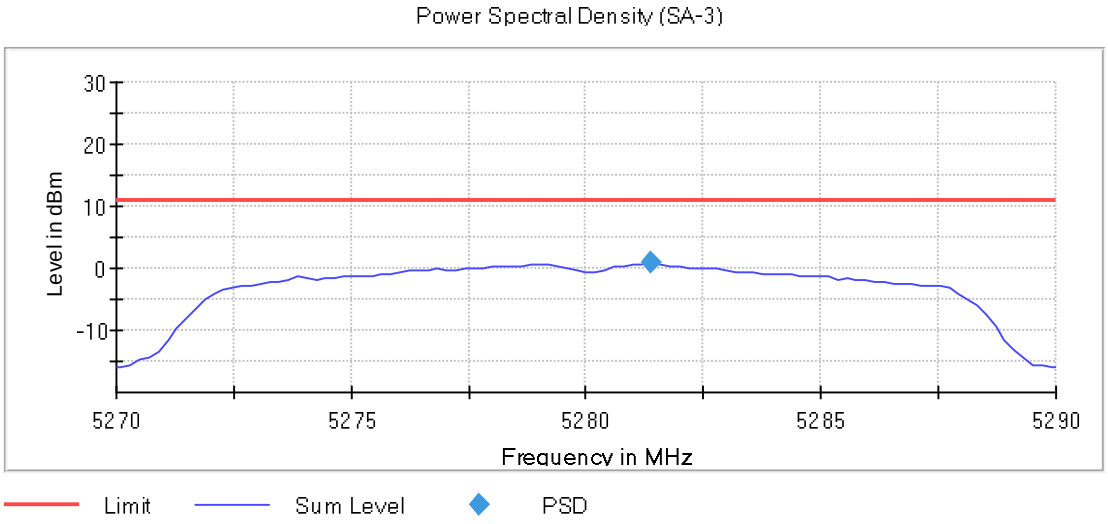
Frequency MHz = 5260.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



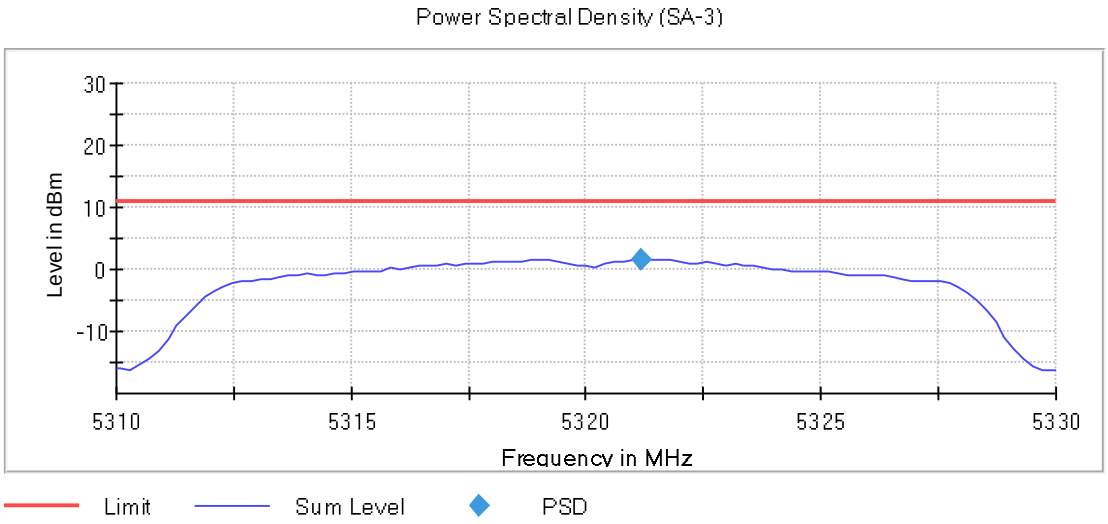
Frequency MHz = 5280.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



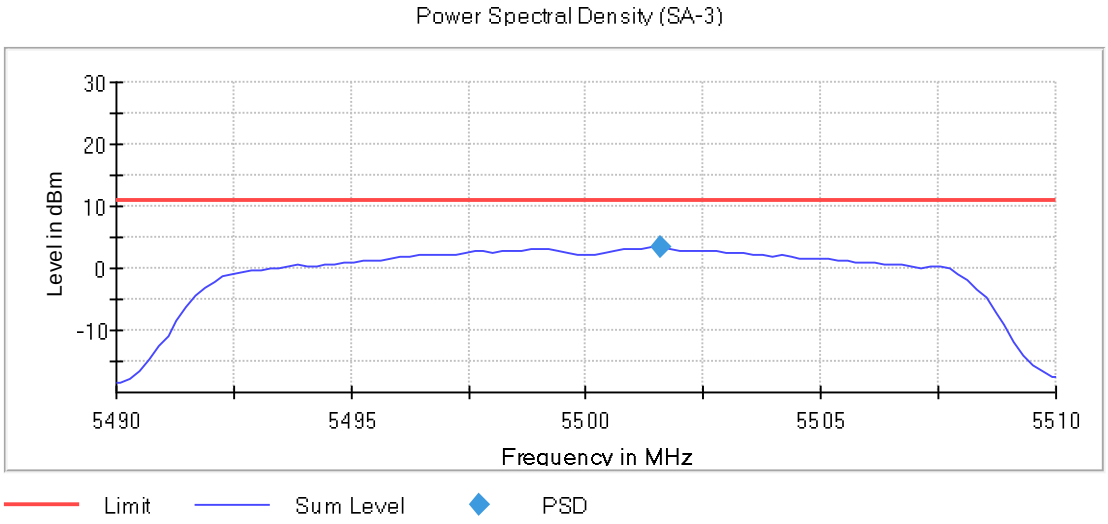
Frequency MHz = 5320.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



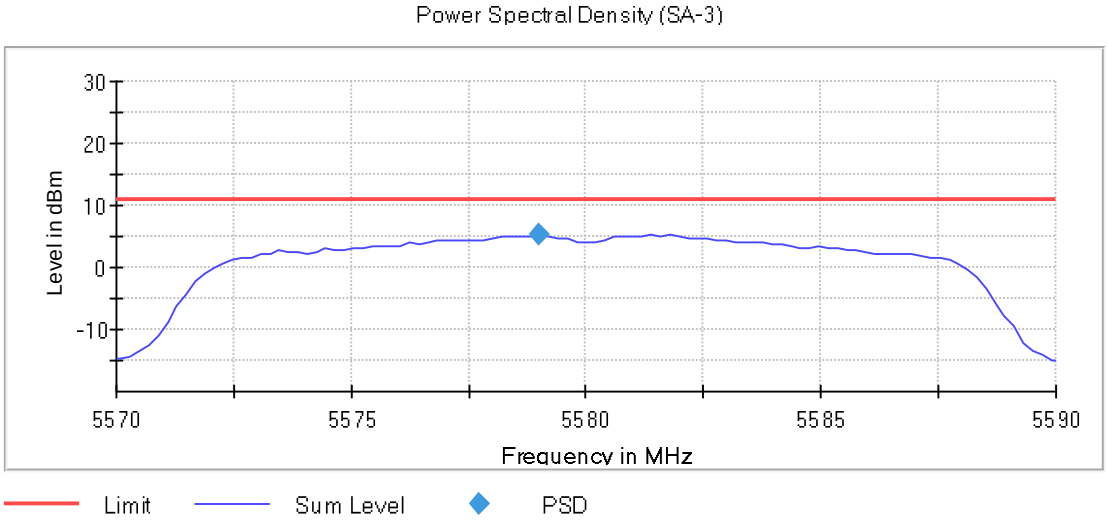
Frequency MHz = 5500.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



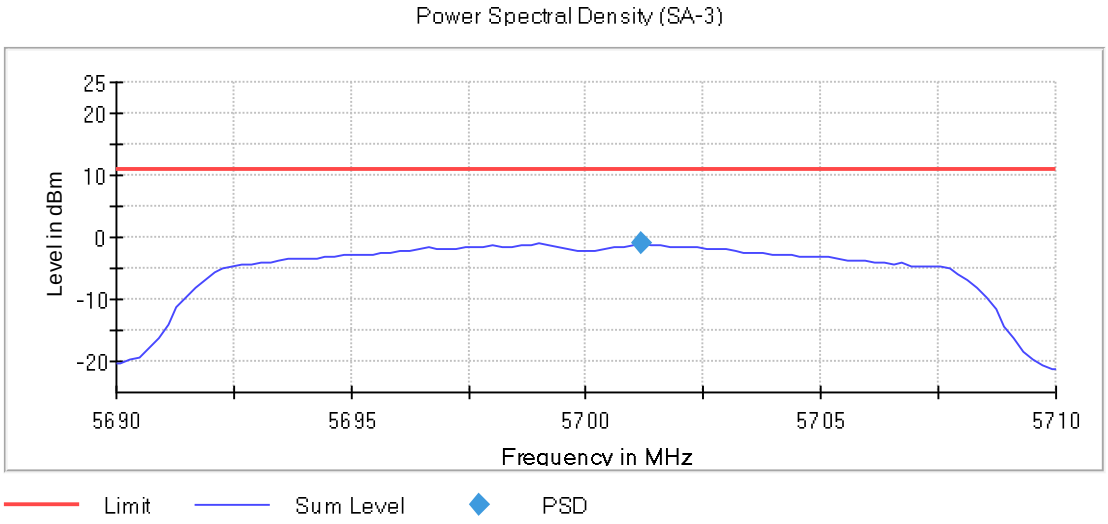
Frequency MHz = 5580.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



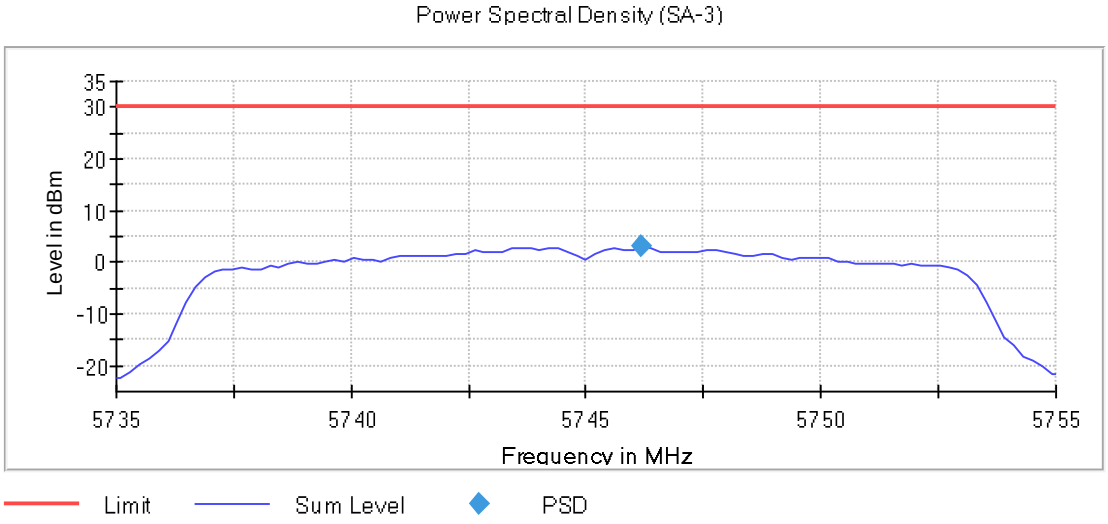
Frequency MHz = 5700.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



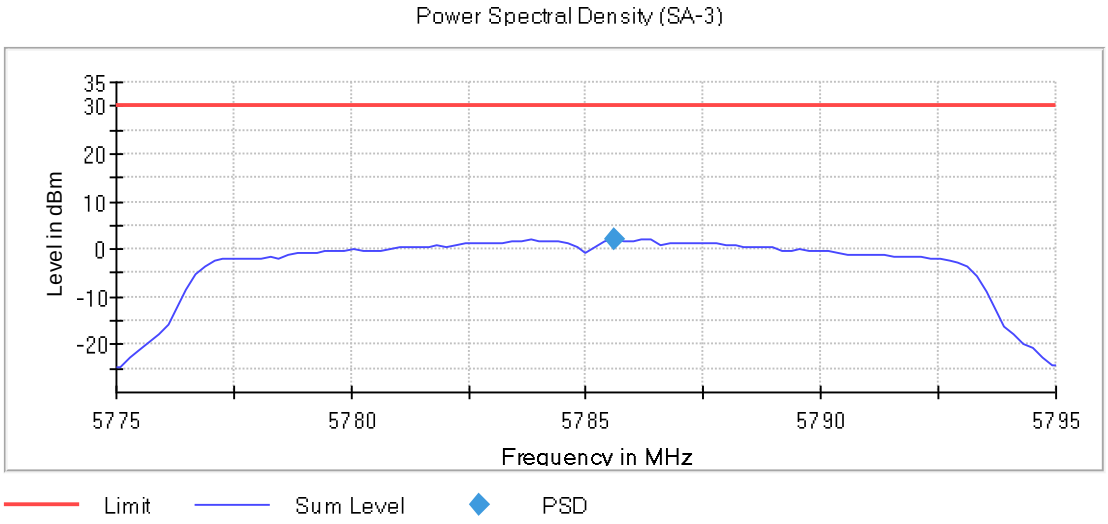
Frequency MHz = 5745.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



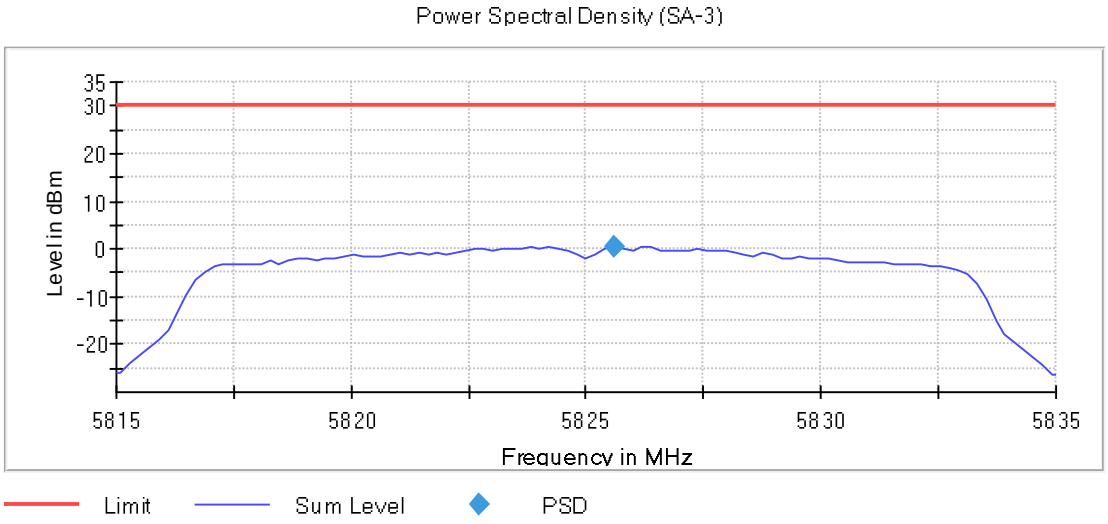
Frequency MHz = 5785.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



Frequency MHz = 5825.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



Tables:
Spectrum Analyzer Parameters

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	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	RMS	RMS
SweepCount	29703	29703
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	2 / max. 15	max. 15
Stable	1 / 1	1
Max Stable Difference	0.28 dB	0.50 dB

Modulation: 802.11n HT20 (OFDM MCS0)
Results

Test Freq (MHz)	Marker Freq (MHz)	PSD (dBm)
5180.00000	5823.811881	-4.782
5200.00000	5200.990099	-3.882
5240.00000	5241.584158	-2.452
5260.00000	5261.386139	-2.744
5280.00000	5280.990099	-3.436
5320.00000	5320.990099	-2.434
5500.00000	5500.792079	-0.502
5580.00000	5579.009901	-0.696
5700.00000	5700.990099	-3.133
5745.00000	5743.811881	-4.445
5785.00000	5786.386139	-2.974
5825.00000	5823.811881	-4.782

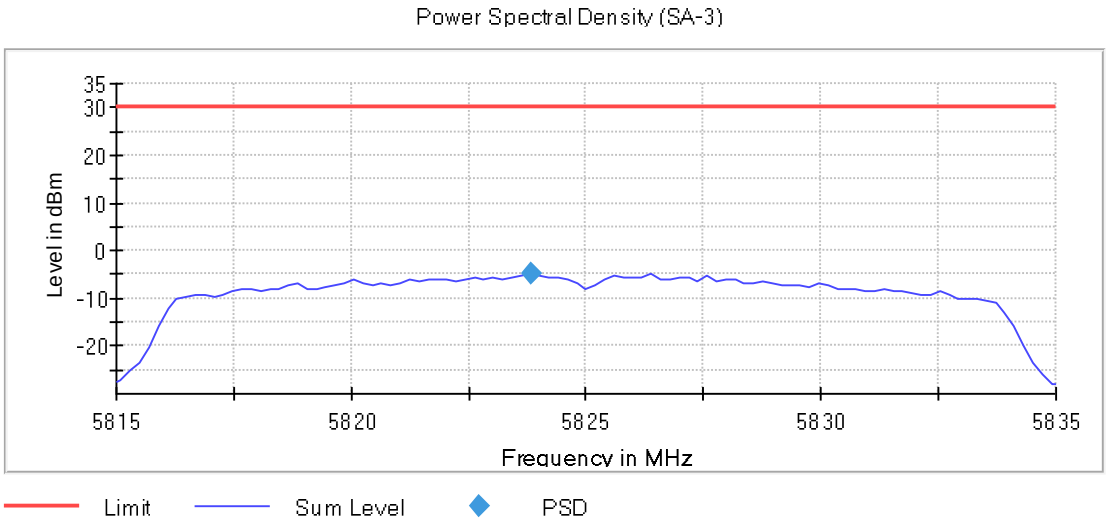
Verdict

Pass

Attachments

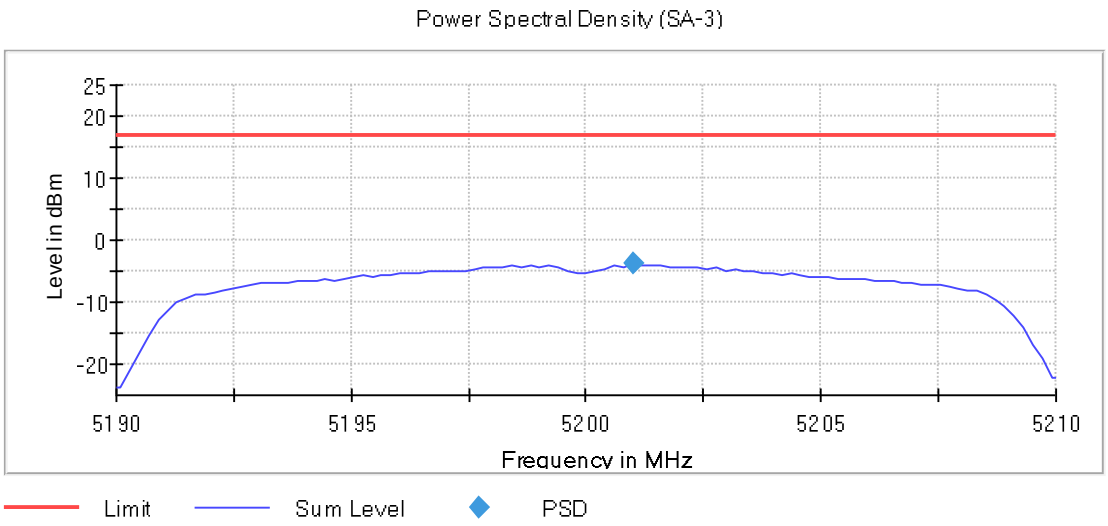
Frequency MHz = 5180.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



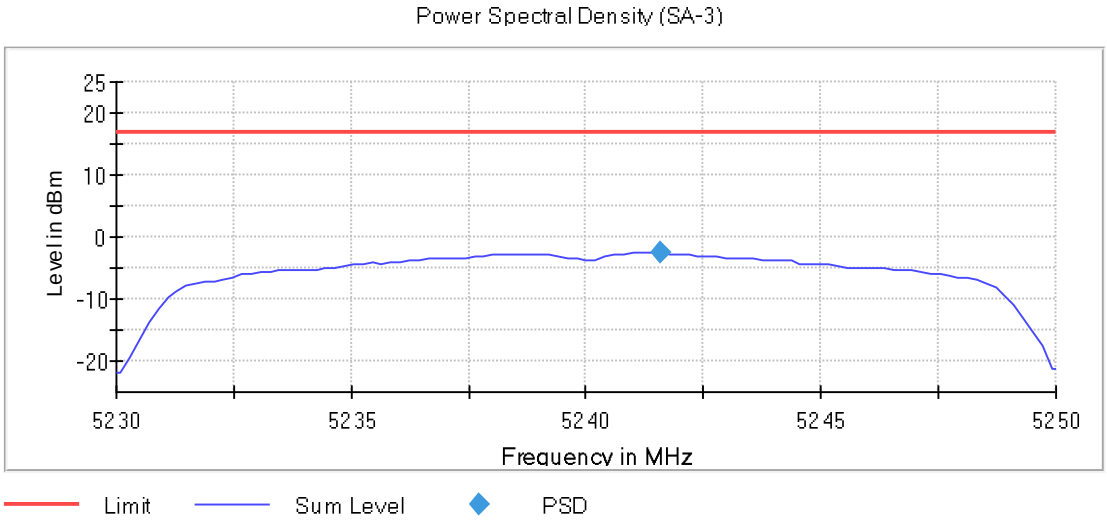
Frequency MHz = 5200.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



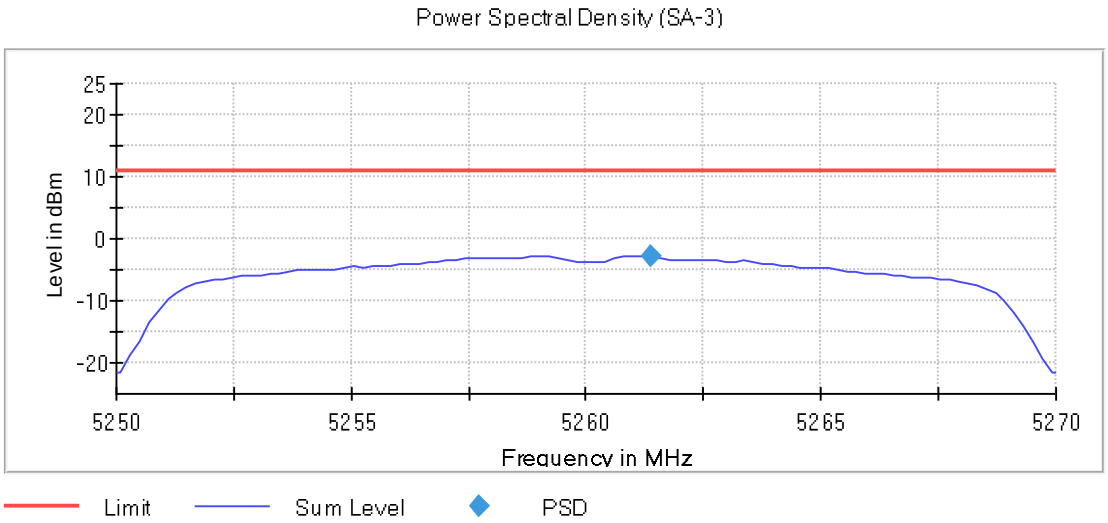
Frequency MHz = 5240.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



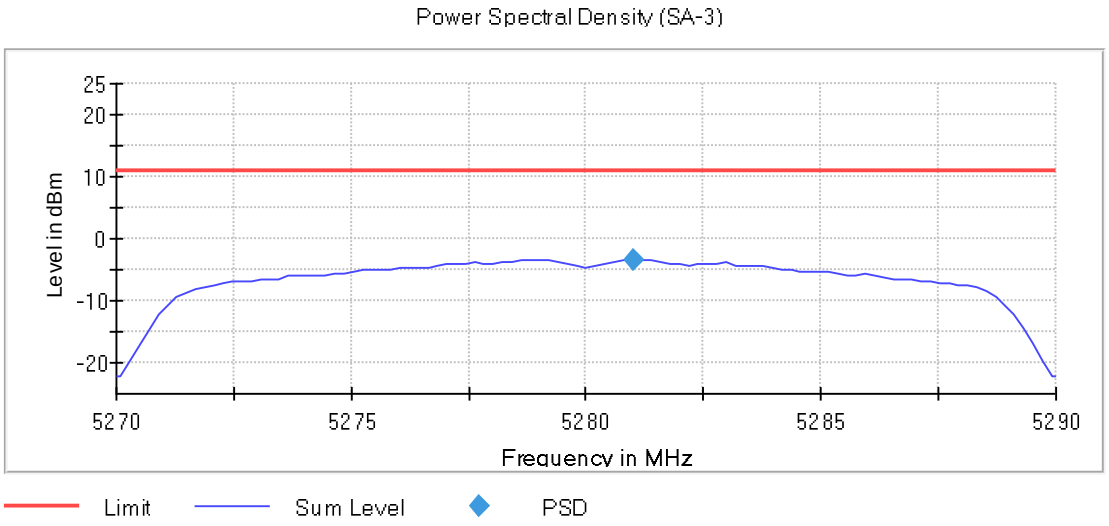
Frequency MHz = 5260.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



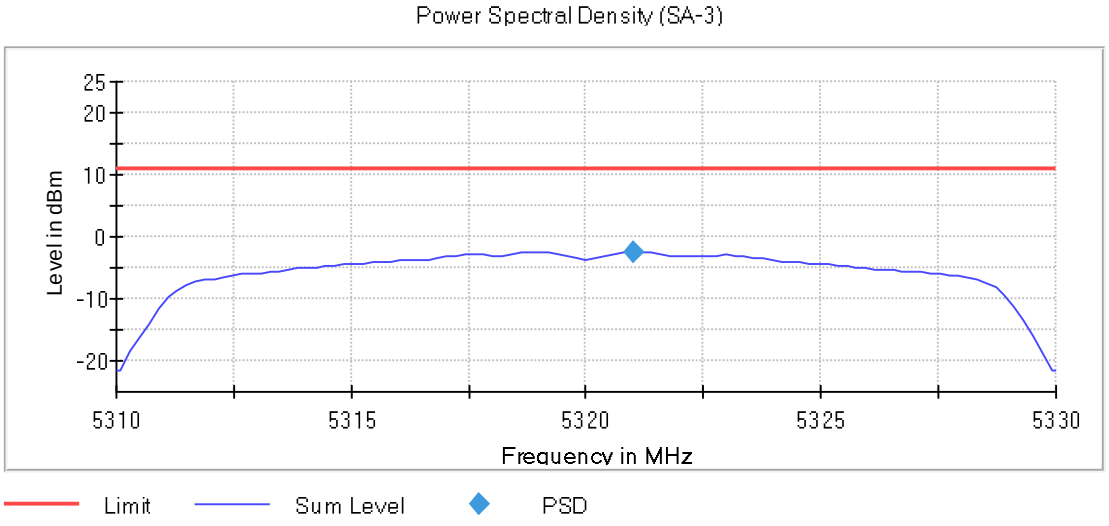
Frequency MHz = 5280.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



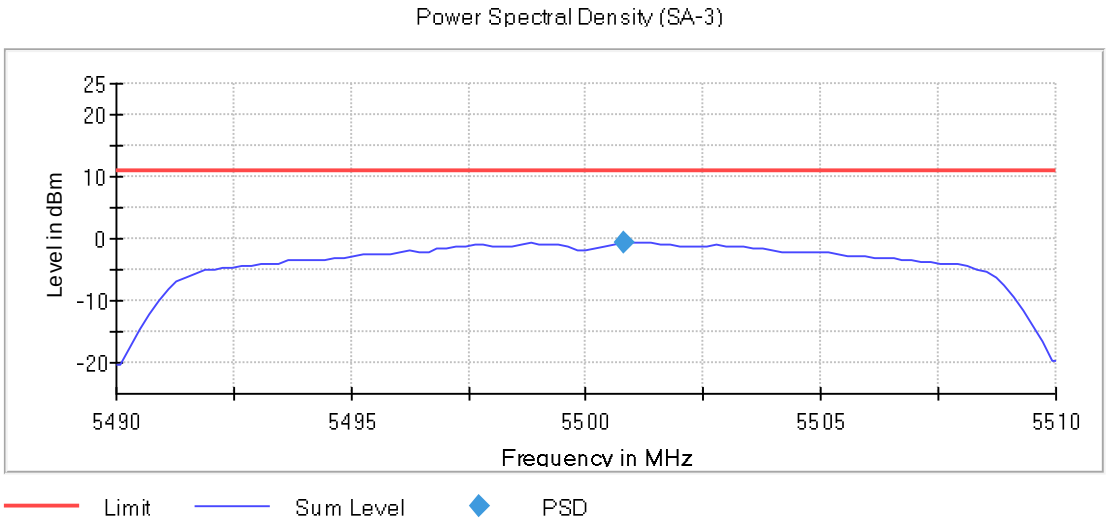
Frequency MHz = 5320.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



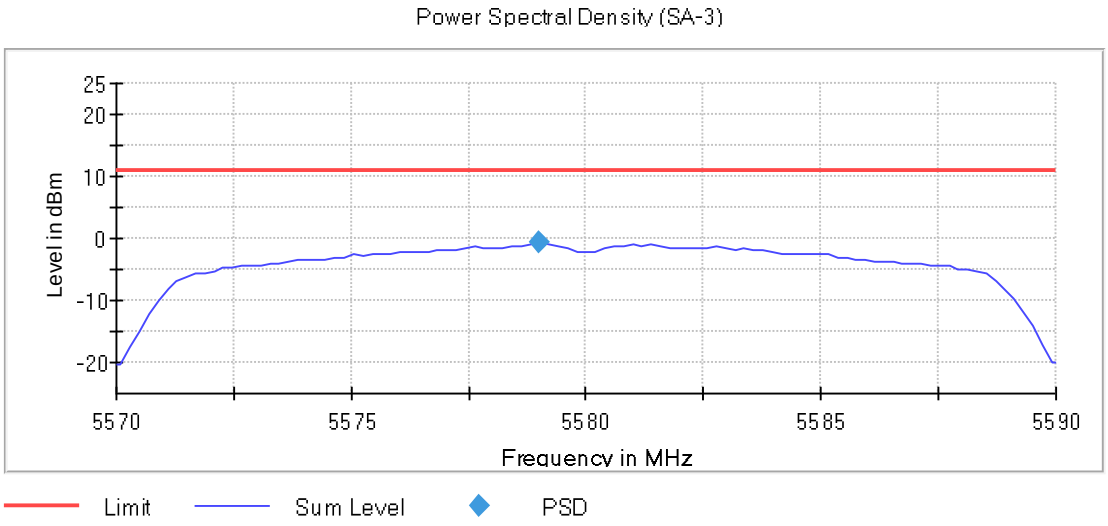
Frequency MHz = 5500.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



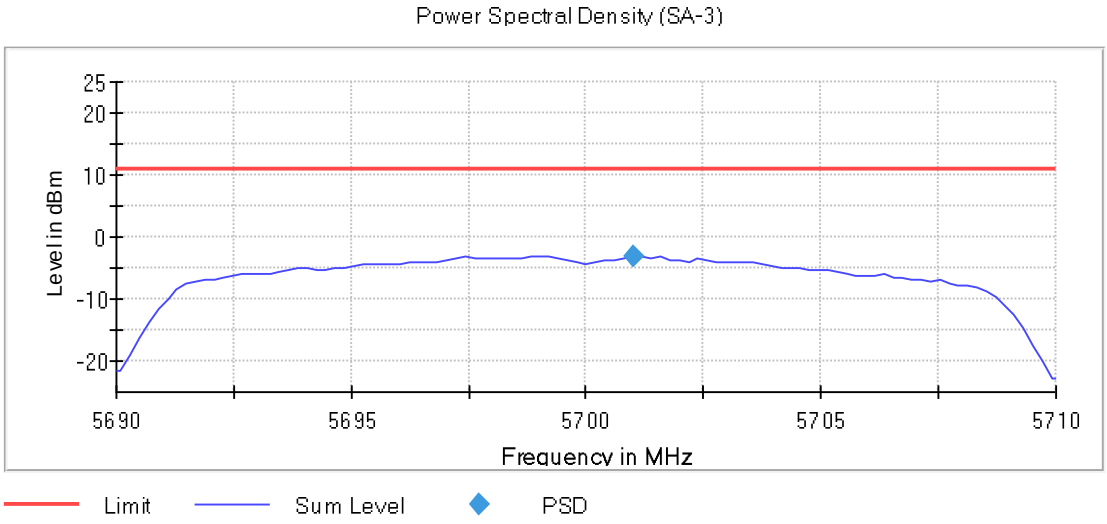
Frequency MHz = 5580.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



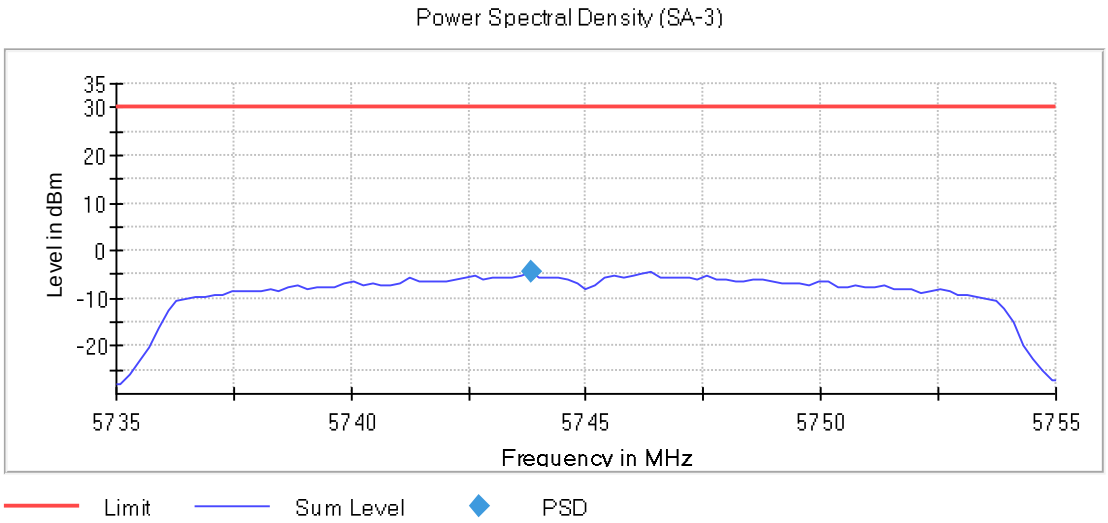
Frequency MHz = 5700.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



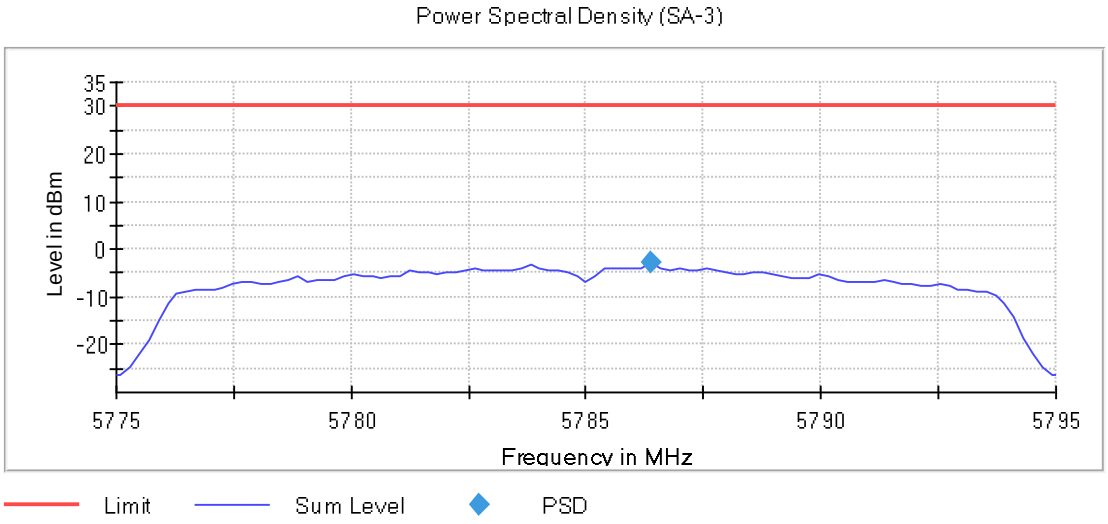
Frequency MHz = 5745.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



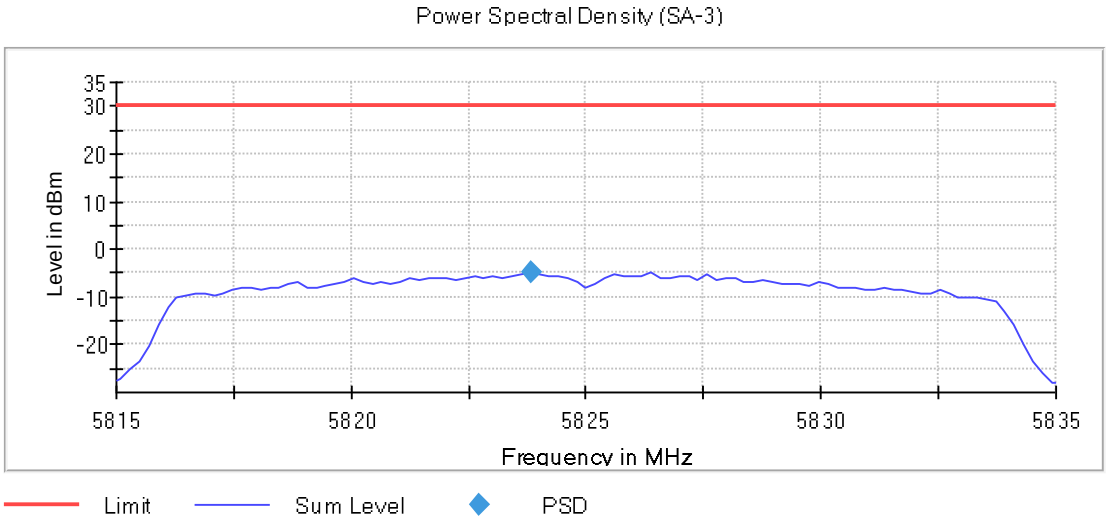
Frequency MHz = 5785.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



Frequency MHz = 5825.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



Tables:
Spectrum Analyzer Parameters

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	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	29703	29703
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	2 / max. 15	max. 15
Stable	1 / 1	1
Max Stable Difference	0.34 dB	0.50 dB

Modulation: 802.11n HT40 (OFDM MCS0)

Results

Test Freq (MHz)	Marker Freq (MHz)	PSD (dBm)
5190.00000	5188.415842	-8.639
5230.00000	5231.980198	-5.835
5270.00000	5273.168317	-6.812
5310.00000	5308.019802	-6.459
5510.00000	5512.772277	-3.845
5550.00000	5547.623762	-3.614
5670.00000	5667.623762	-5.373
5755.00000	5752.625000	-7.508
5795.00000	5792.625000	-6.607

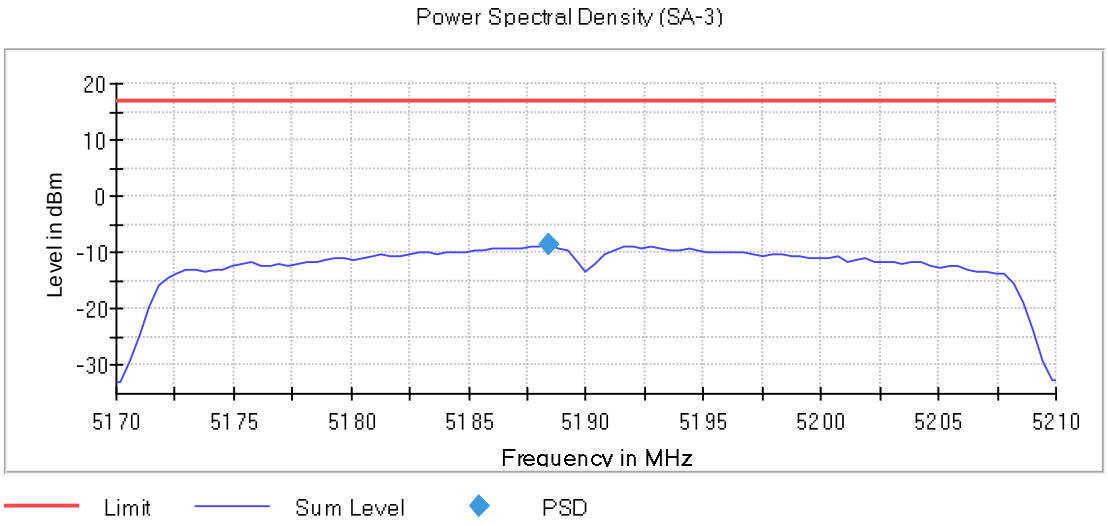
Verdict

Pass

Attachments

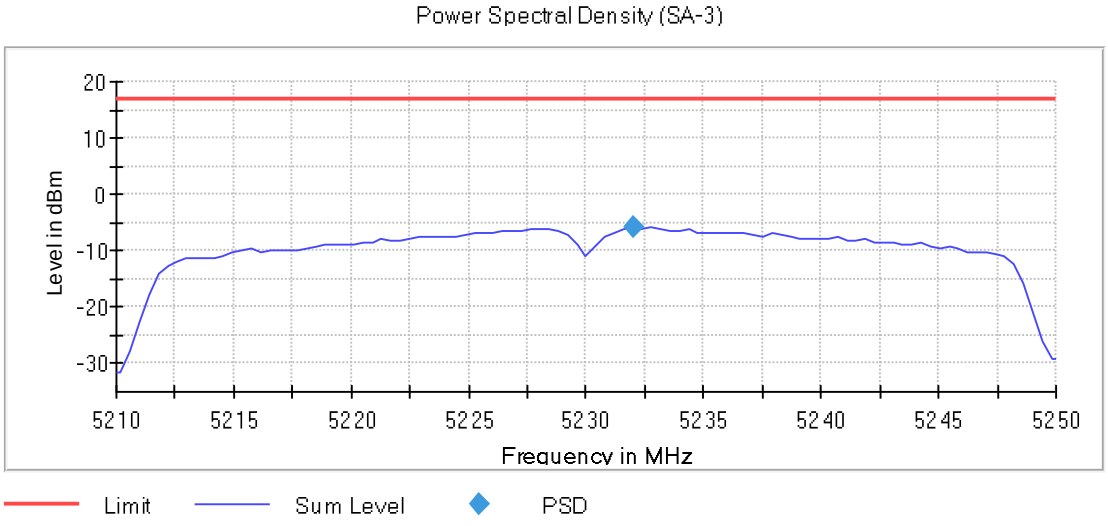
Frequency MHz = 5190.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:



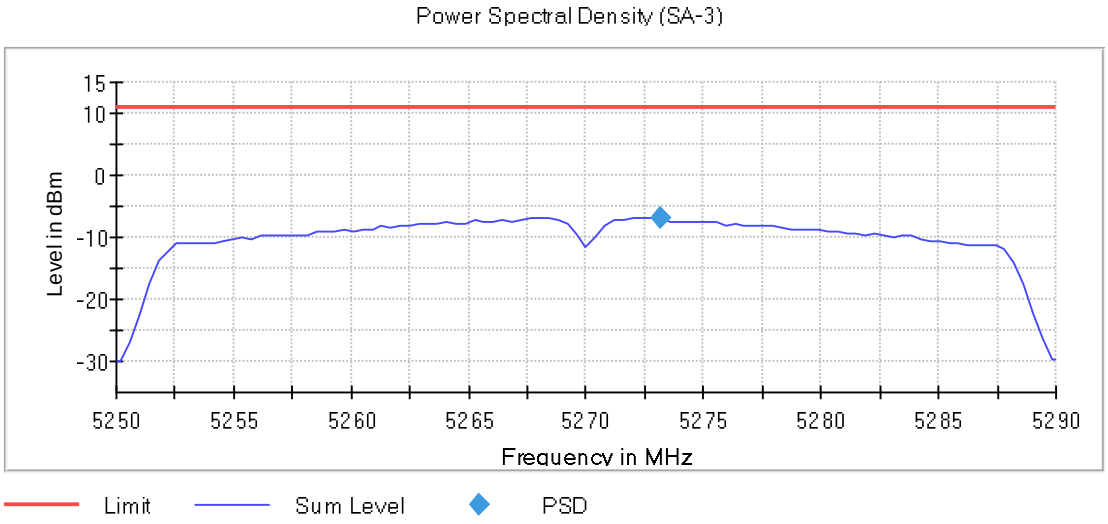
Frequency MHz = 5230.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:



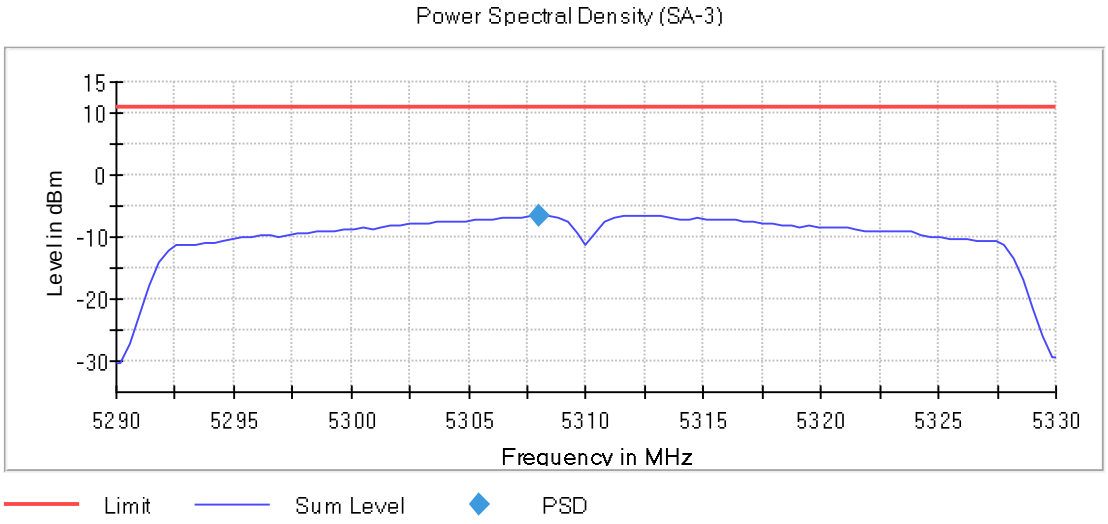
Frequency MHz = 5270.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:



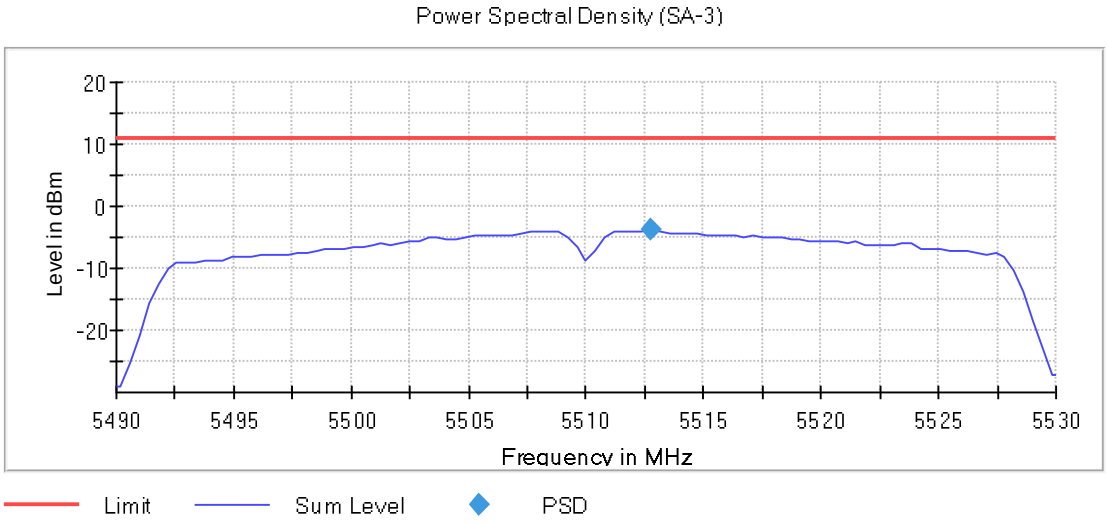
Frequency MHz = 5310.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:



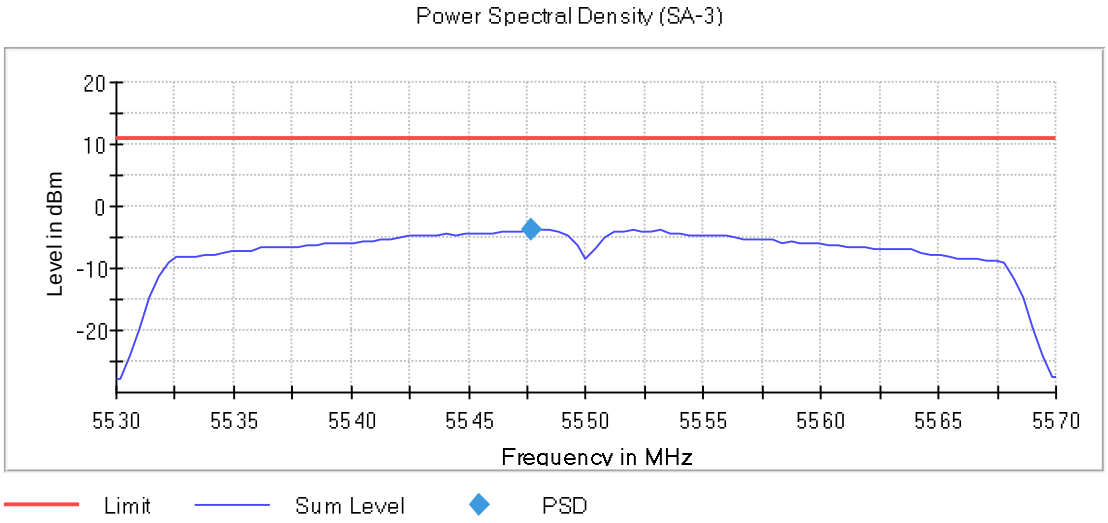
Frequency MHz = 5510.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:



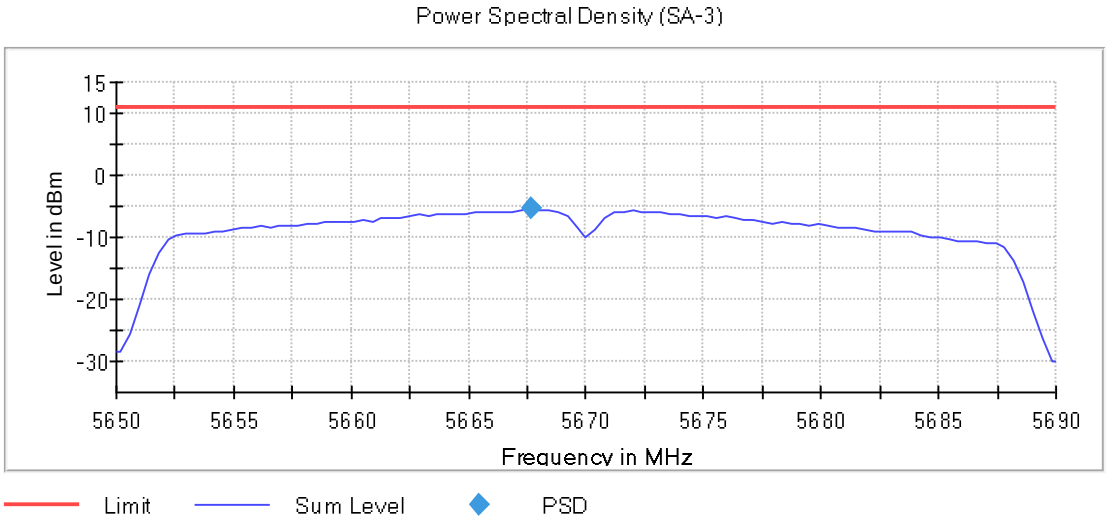
Frequency MHz = 5550.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:



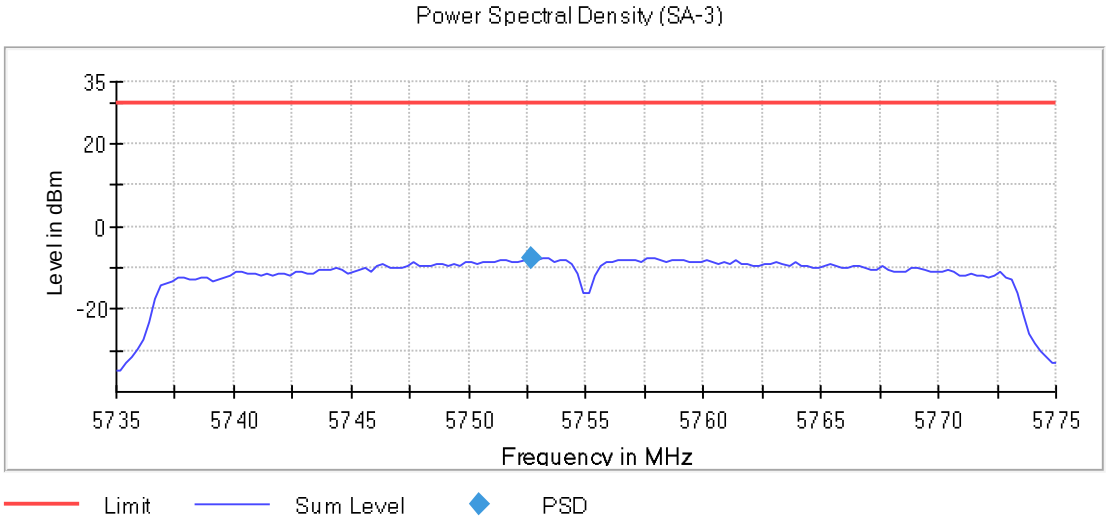
Frequency MHz = 5670.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:



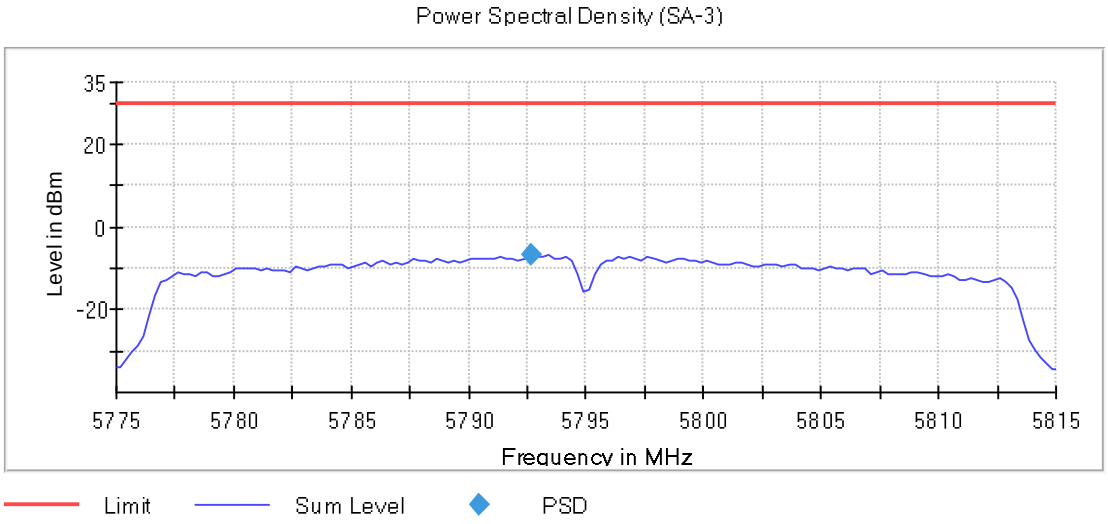
Frequency MHz = 5755.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:



Frequency MHz = 5795.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:



Tables:
Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Start Frequency	5.21000 GHz	5.21000 GHz
Stop Frequency	5.25000 GHz	5.25000 GHz
Span	40.000 MHz	40.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 80
Sweeptime	2.020 ms	2.020 ms
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	29703	29703
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	2 / max. 15	max. 15
Stable	1 / 1	1
Max Stable Difference	0.40 dB	0.50 dB

FCC 2.1049 / RSS-Gen 6.7 99% Occupied Bandwidth

Limits

No Limit has been set to this test case

Modulation: 802.11a (OFDM 6 Mbit/s)

Results

Freq (MHz)	Occ Ch BW (MHz)
5180.00000	18.500
5200.00000	19.000
5240.00000	16.800
5260.00000	23.800
5280.00000	24.100
5320.00000	21.200
5500.00000	16.900
5580.00000	20.800
5700.00000	18.300
5745.00000	16.500
5785.00000	16.400
5825.00000	16.400

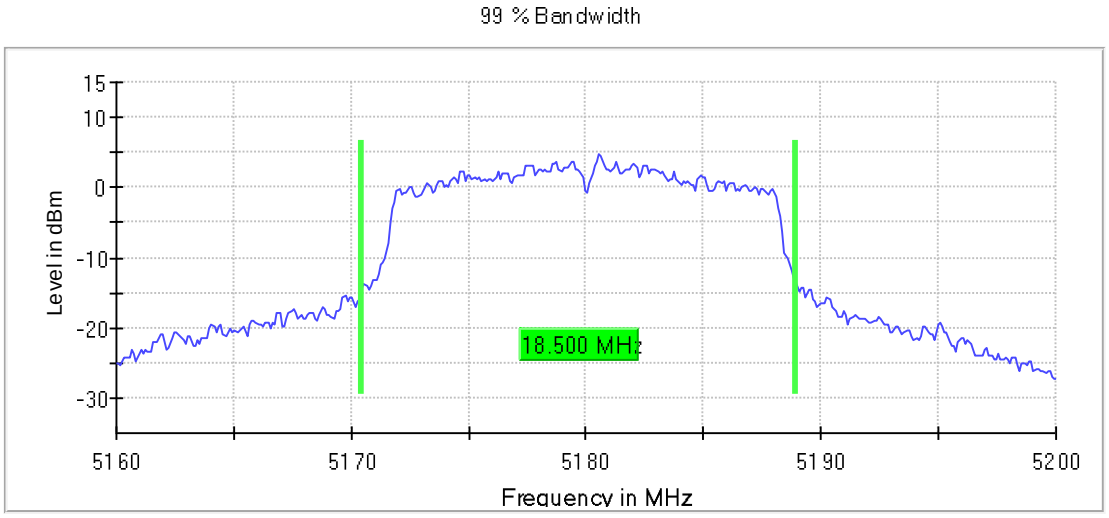
Verdict

Pass

Attachments

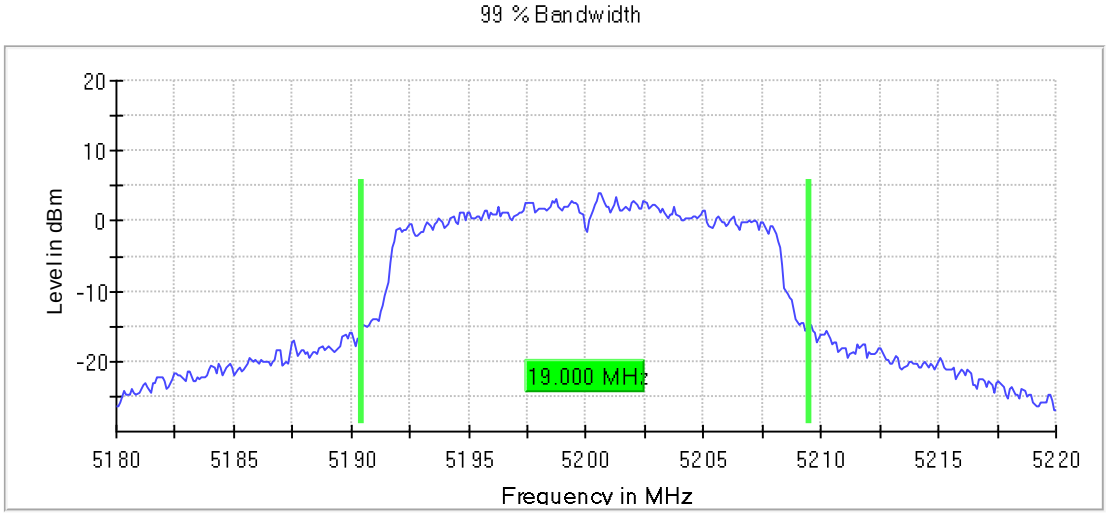
Frequency MHz = 5180.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



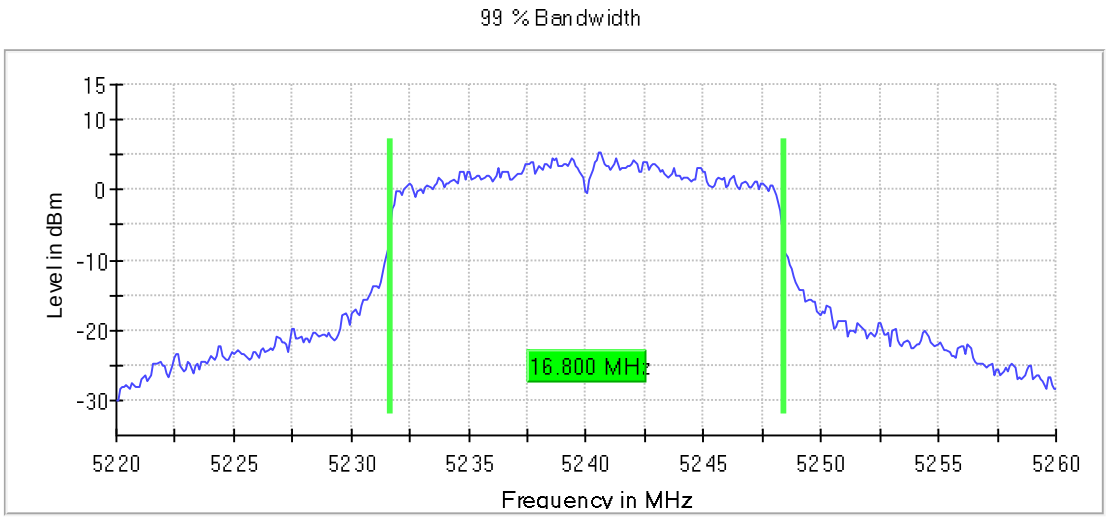
Frequency MHz = 5200.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



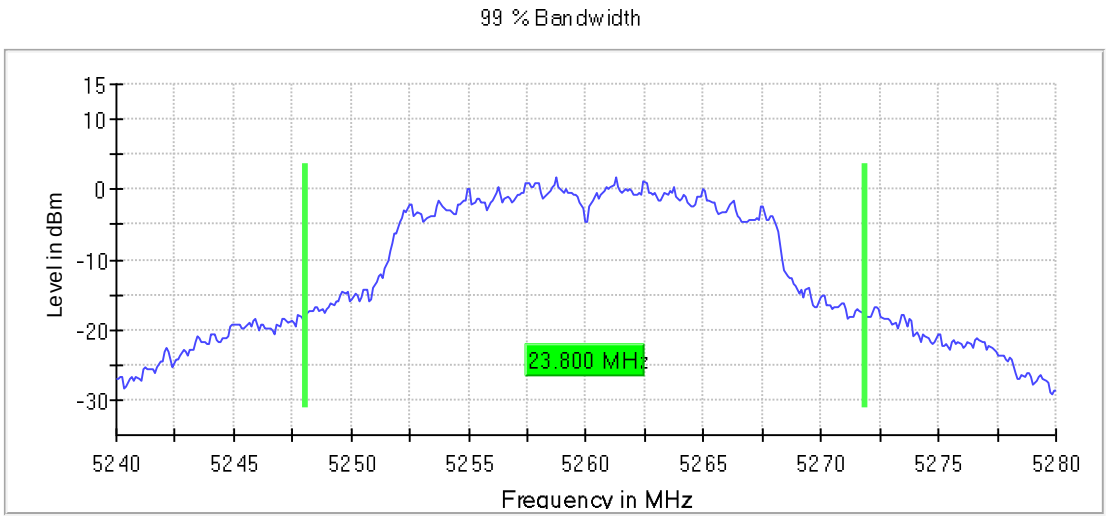
Frequency MHz = 5240.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



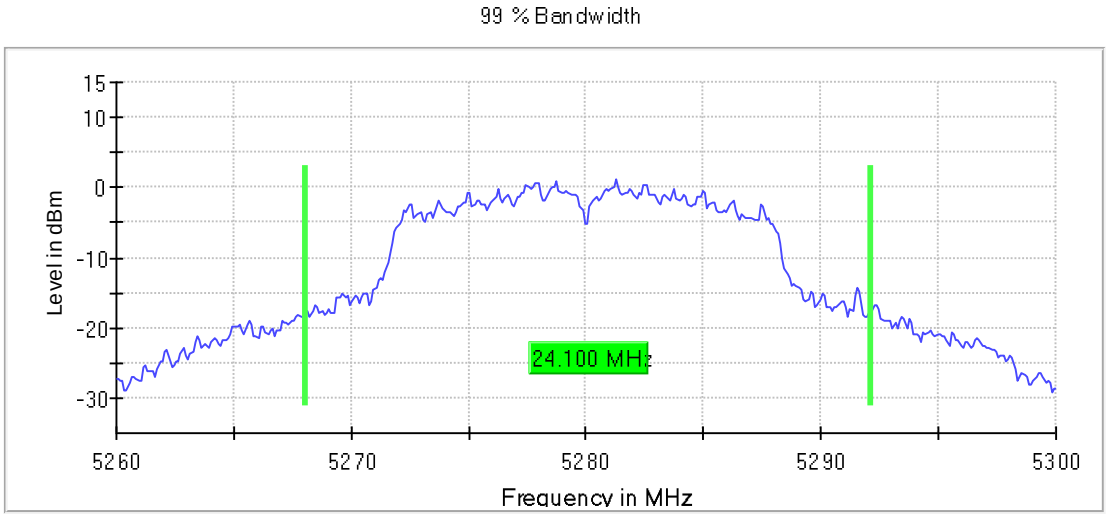
Frequency MHz = 5260.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



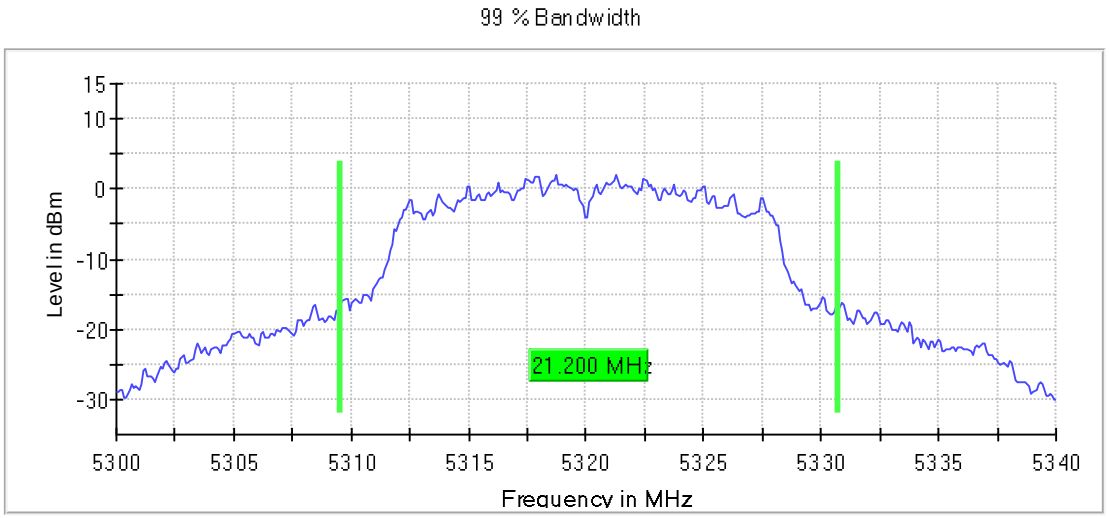
Frequency MHz = 5280.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



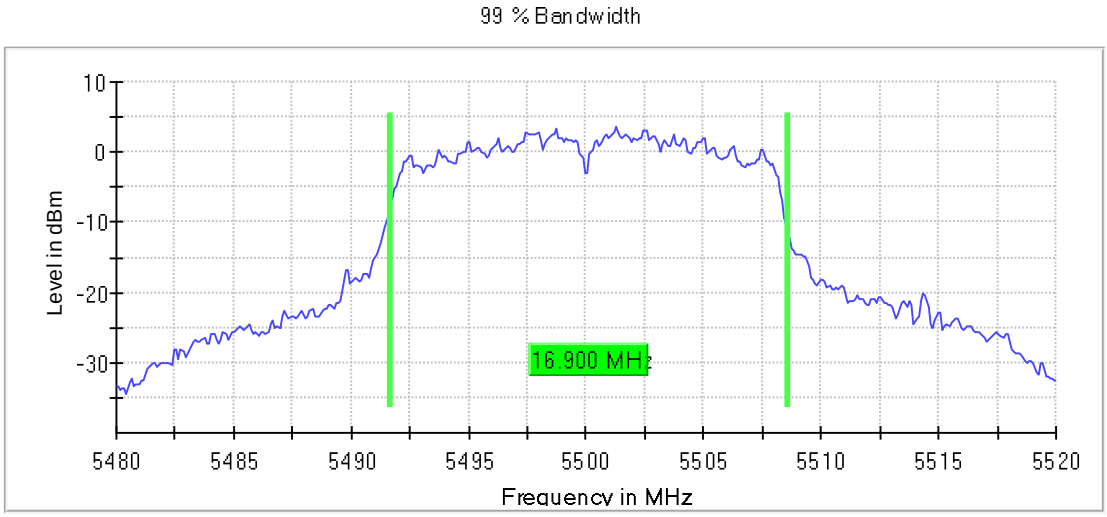
Frequency MHz = 5320.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



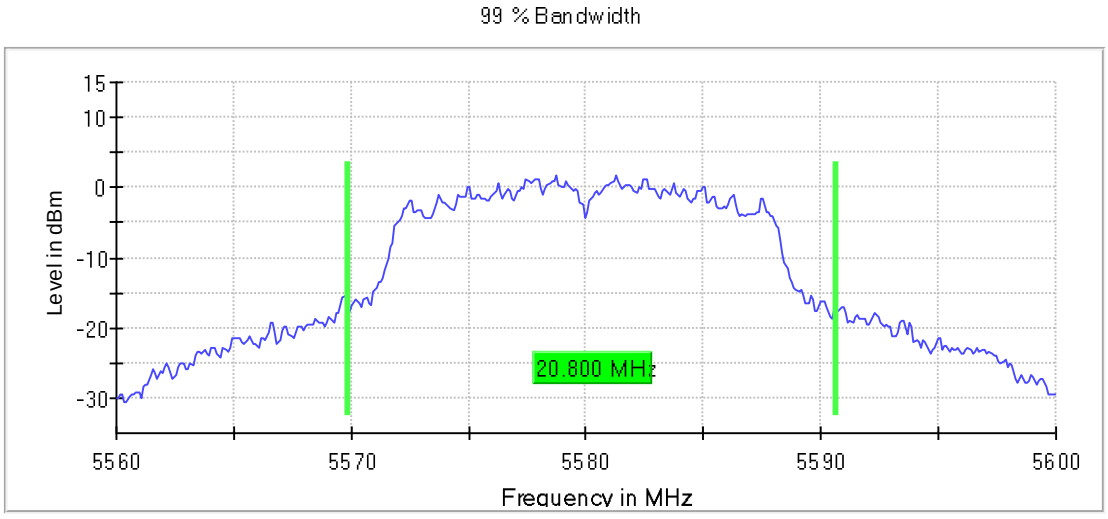
Frequency MHz = 5500.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



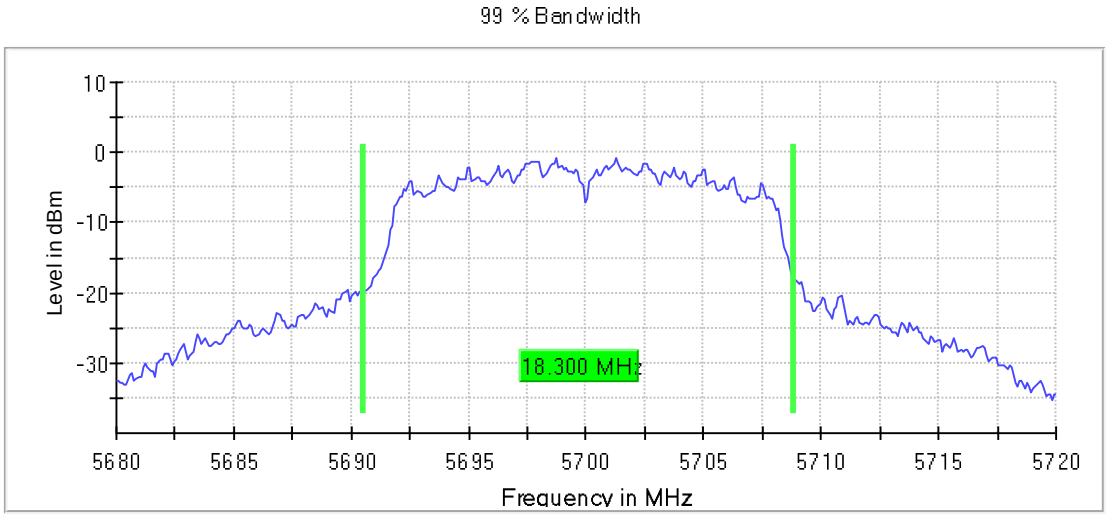
Frequency MHz = 5580.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



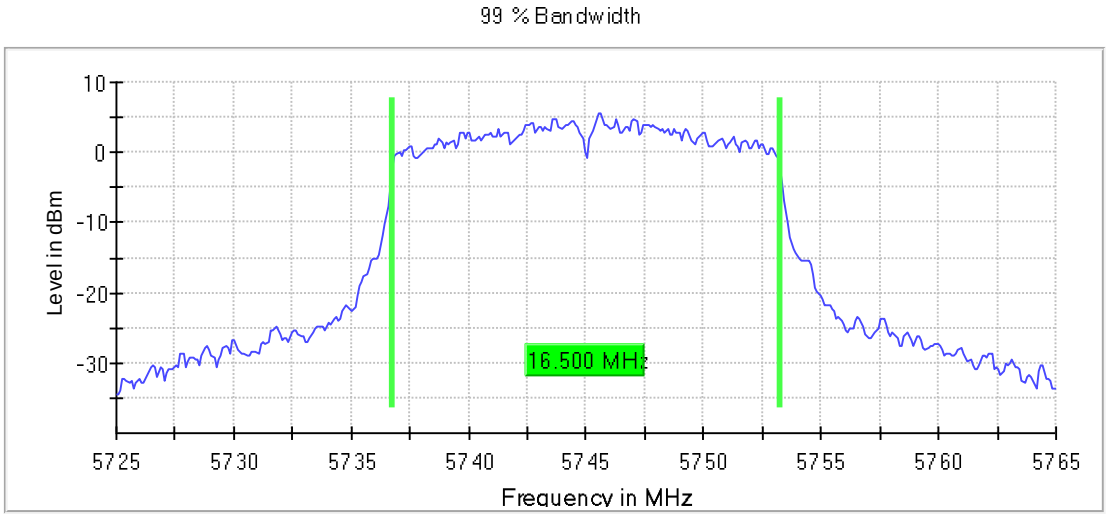
Frequency MHz = 5700.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



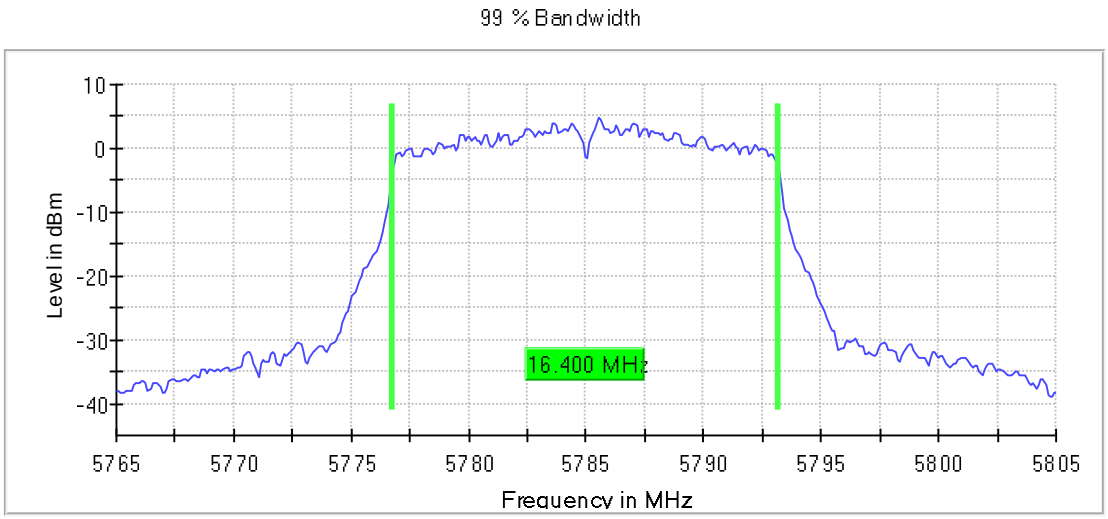
Frequency MHz = 5745.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



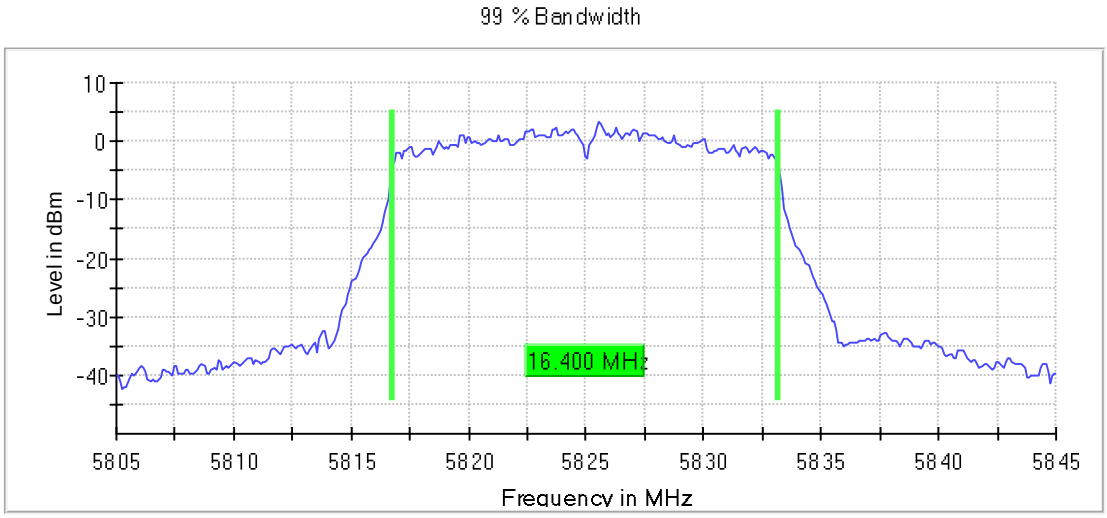
Frequency MHz = 5785.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



Frequency MHz = 5825.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



Tables:
Spectrum Analyzer Parameters

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
Sweeptime	28.477 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	42 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.07 dB	0.30 dB

Modulation: 802.11n HT20 (OFDM MCS0)

Results

Freq (MHz)	Occ Ch BW (MHz)
5180.00000	17.600
5200.00000	17.600
5240.00000	17.600
5260.00000	17.700
5280.00000	17.700
5320.00000	17.600
5500.00000	17.500
5580.00000	17.600
5700.00000	17.600
5745.00000	17.600
5785.00000	17.500
5825.00000	17.600

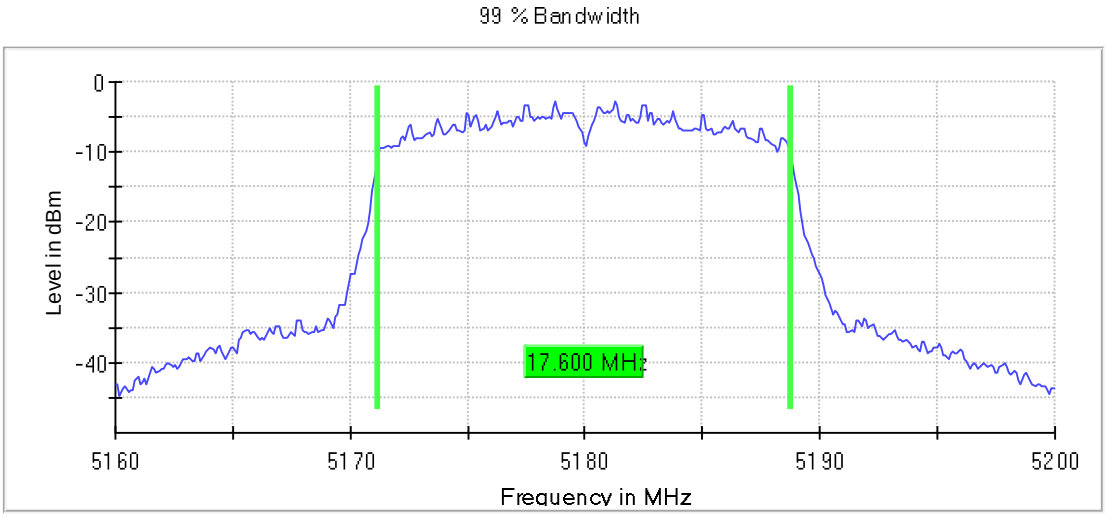
Verdict

Pass

Attachments

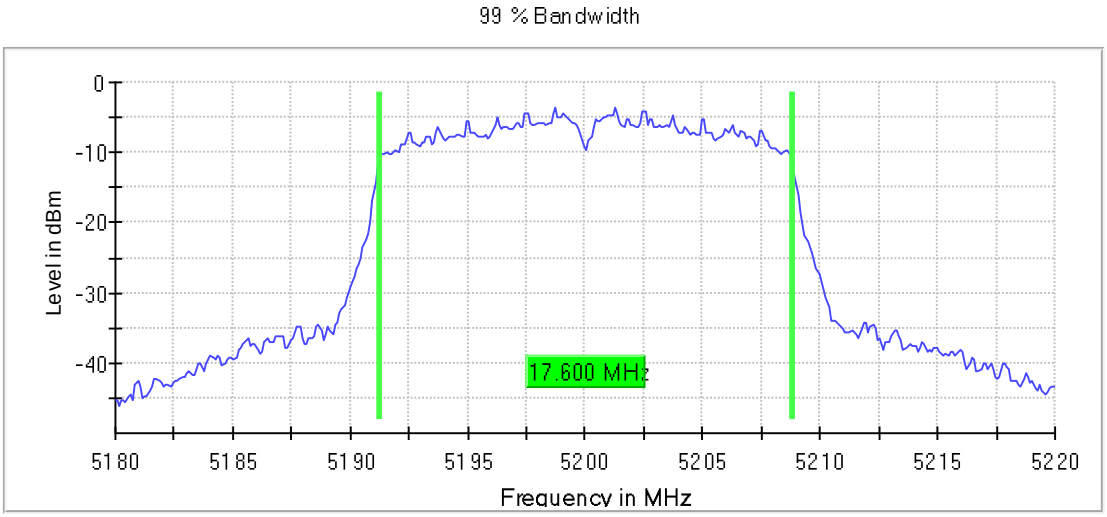
Frequency MHz = 5180.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



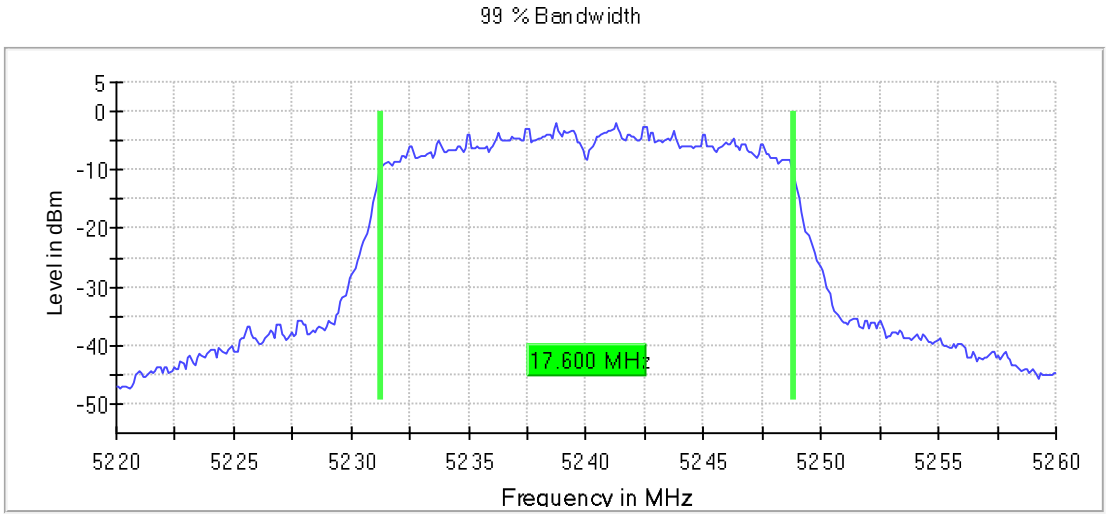
Frequency MHz = 5200.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



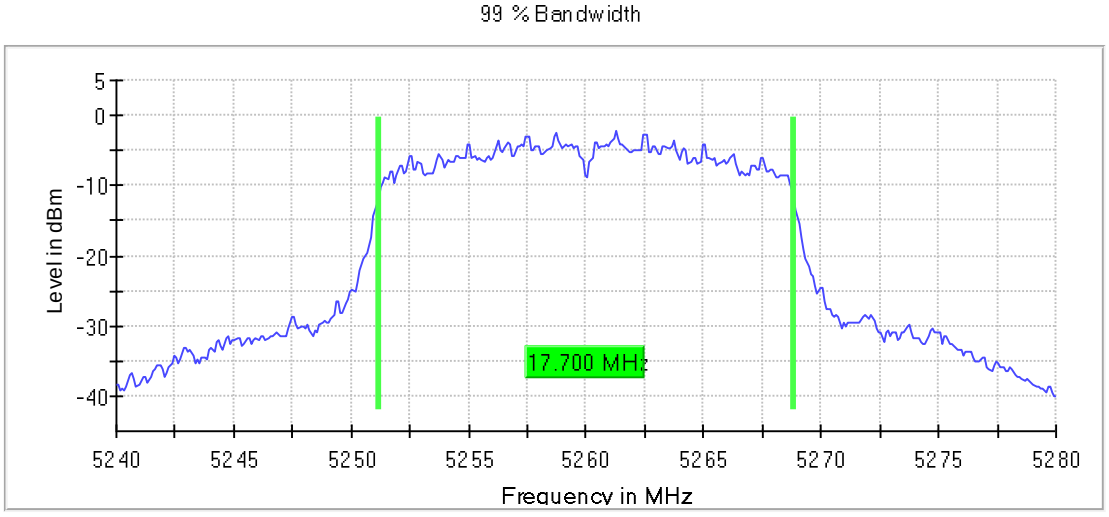
Frequency MHz = 5240.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



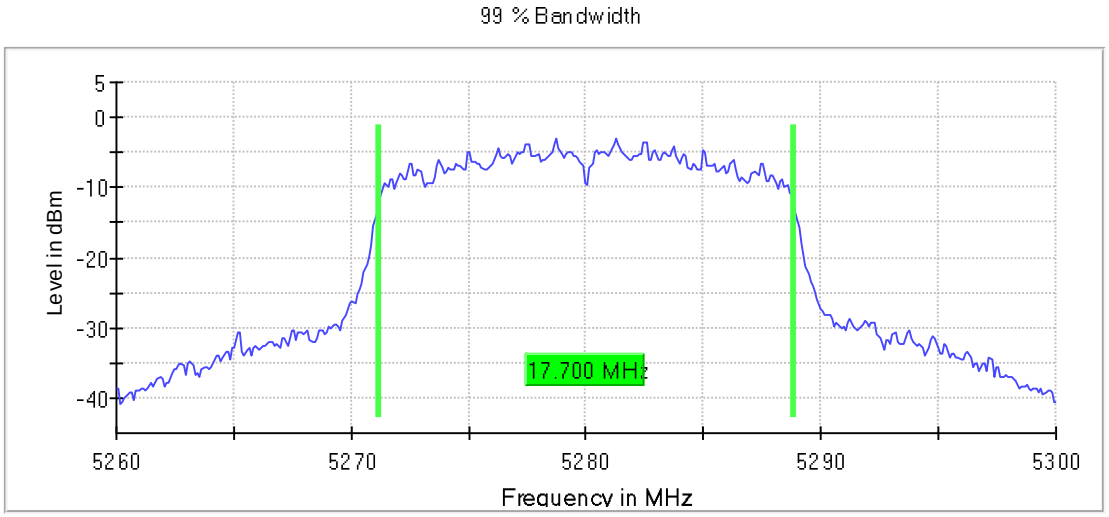
Frequency MHz = 5260.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



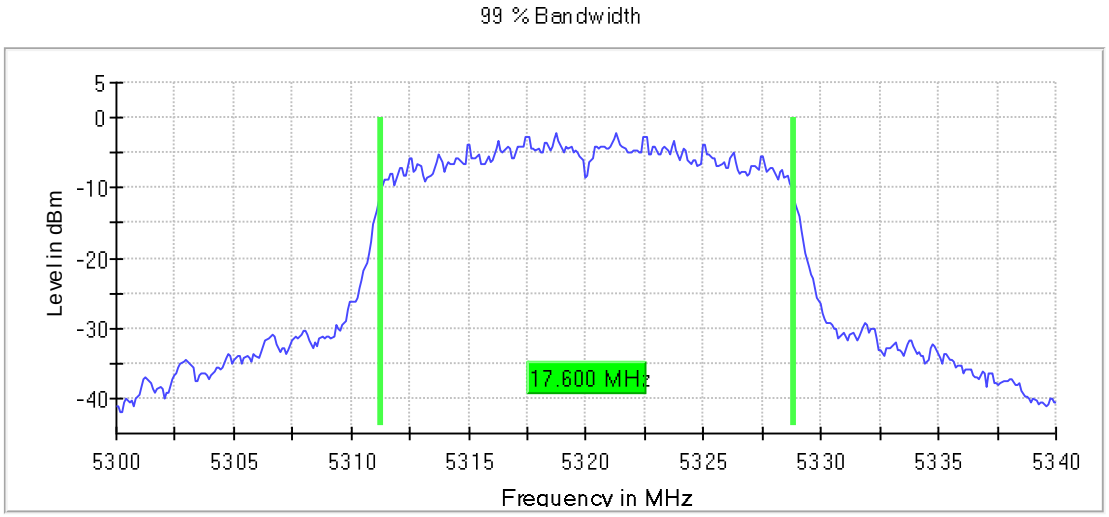
Frequency MHz = 5280.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



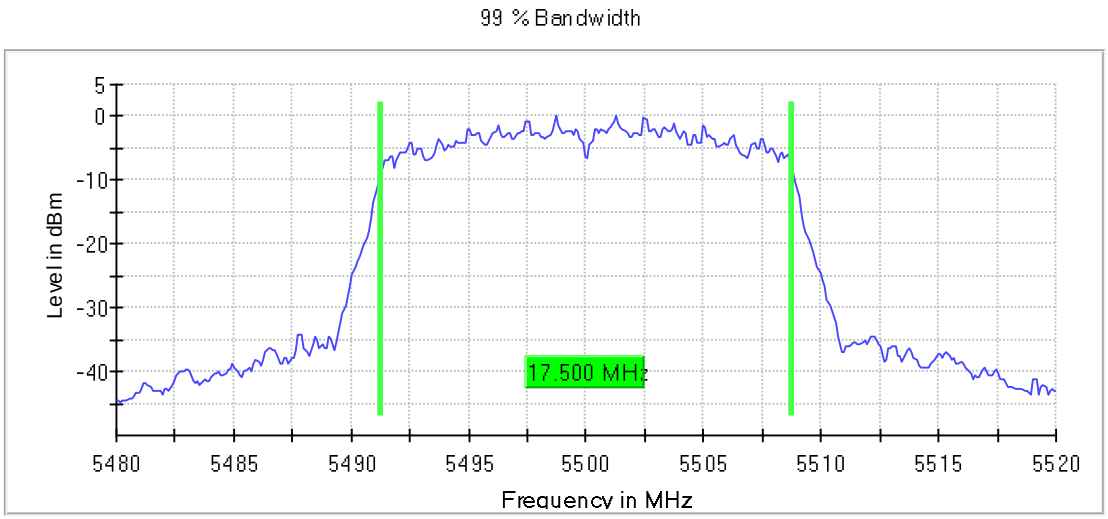
Frequency MHz = 5320.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



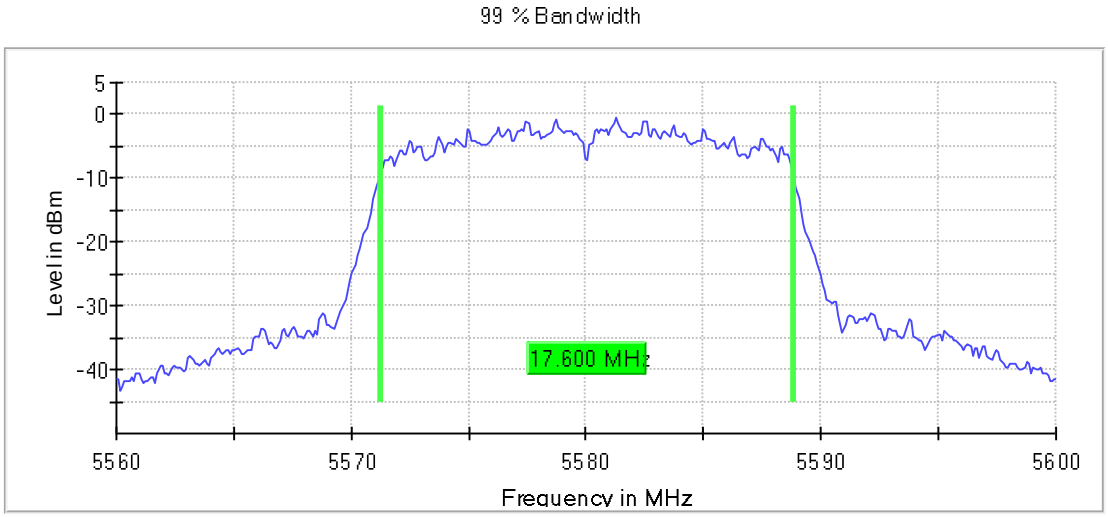
Frequency MHz = 5500.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



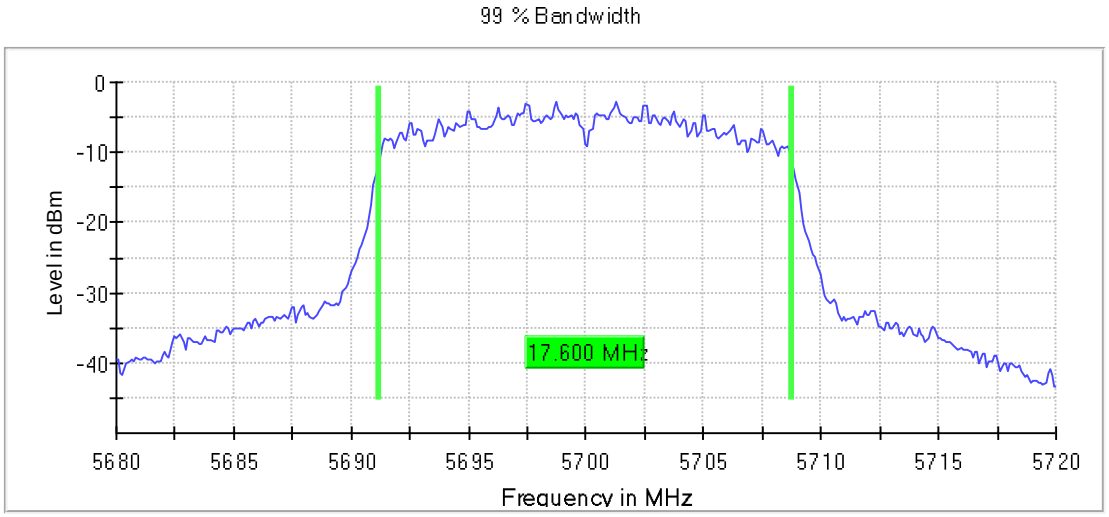
Frequency MHz = 5580.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



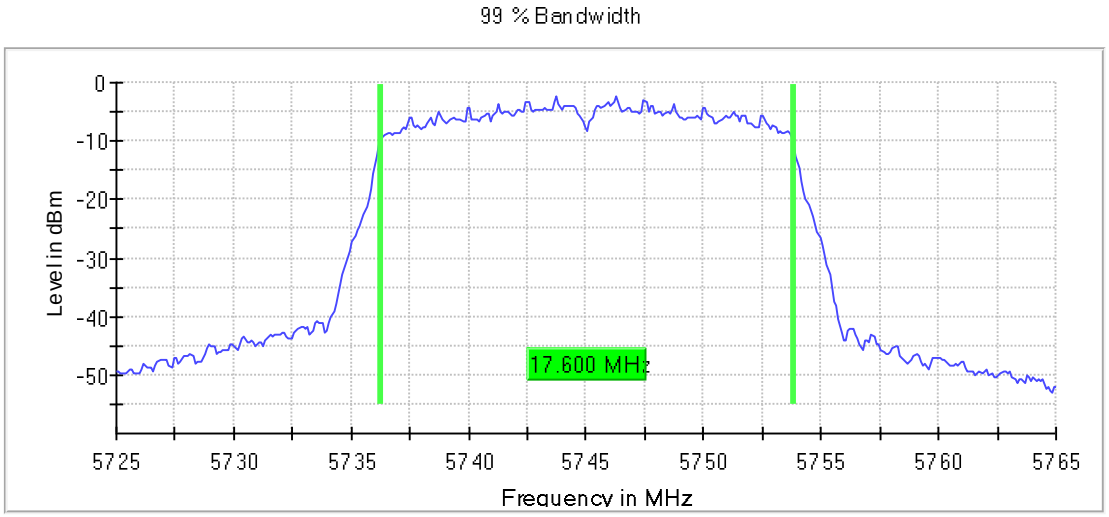
Frequency MHz = 5700.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



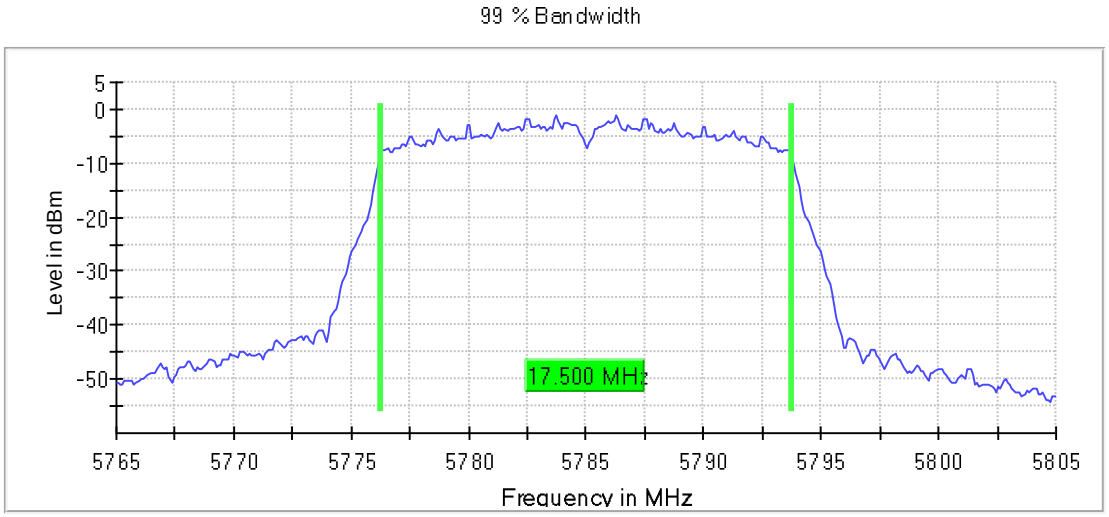
Frequency MHz = 5745.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



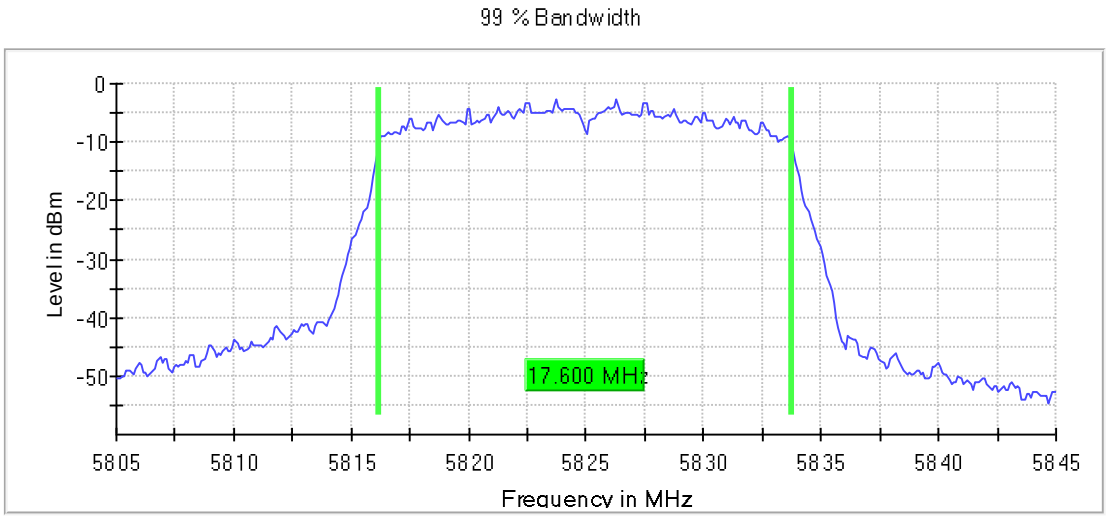
Frequency MHz = 5785.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



Frequency MHz = 5825.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



Tables:
Spectrum Analyzer Parameters

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
Sweeptime	28.477 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 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
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	24 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.26 dB	0.30 dB

Modulation: 802.11n HT40 (OFDM MCS0)
Results

Freq (MHz)	Occ Ch BW (MHz)
5190.00000	36.250
5230.00000	36.250
5270.00000	36.500
5310.00000	36.500
5510.00000	36.250
5550.00000	36.250
5670.00000	36.250
5755.00000	36.250
5795.00000	36.250

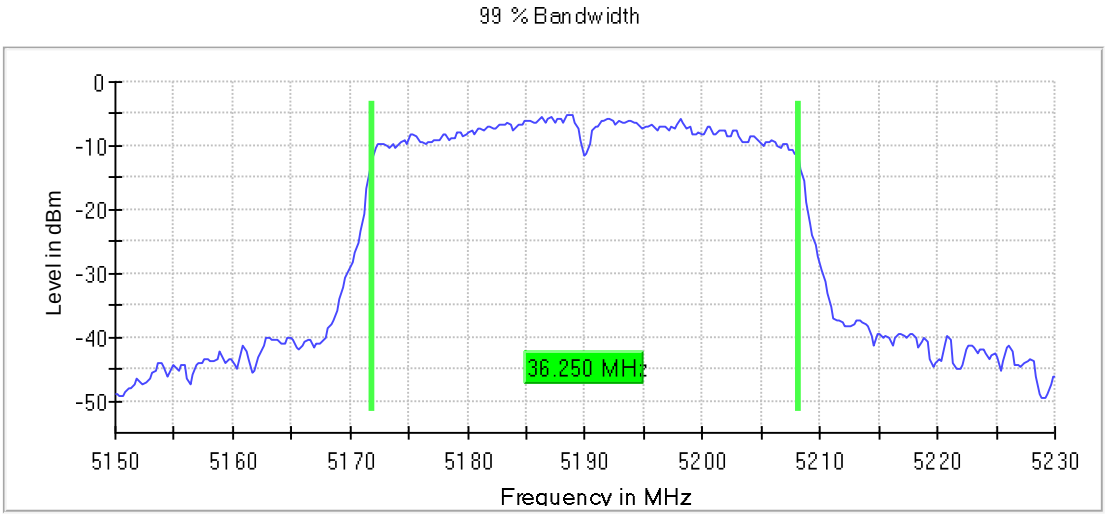
Verdict

Pass

Attachments

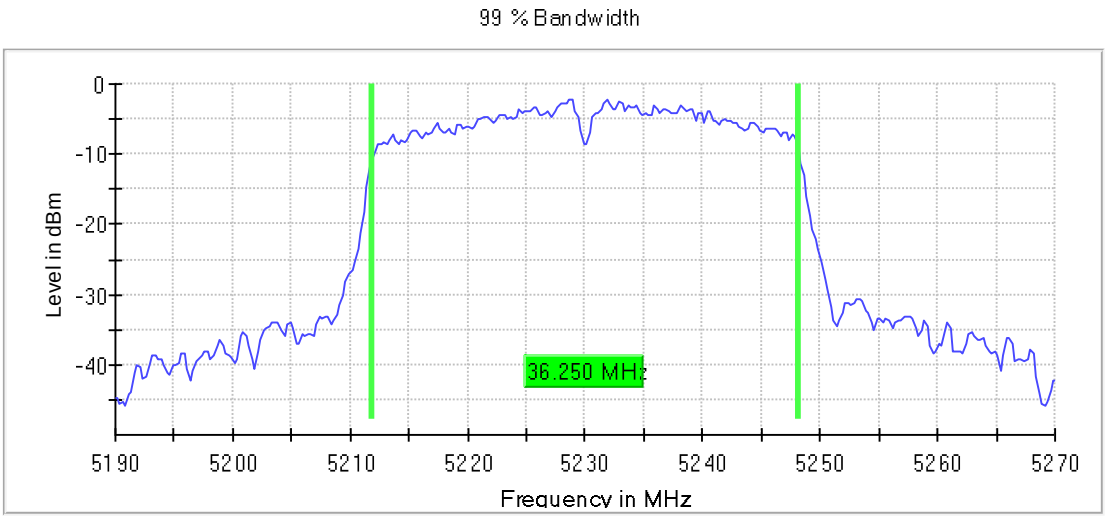
Frequency MHz = 5190.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:



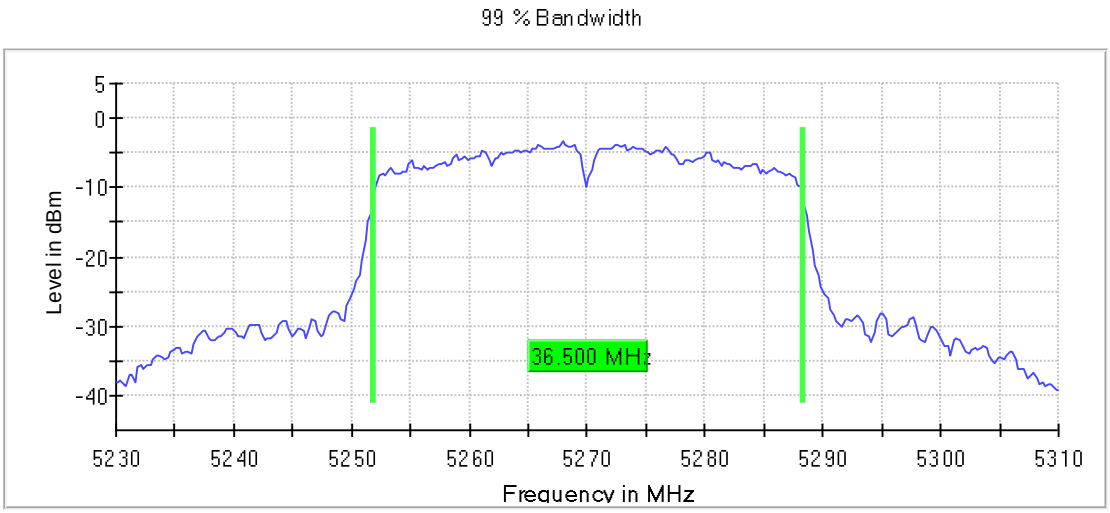
Frequency MHz = 5230.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:



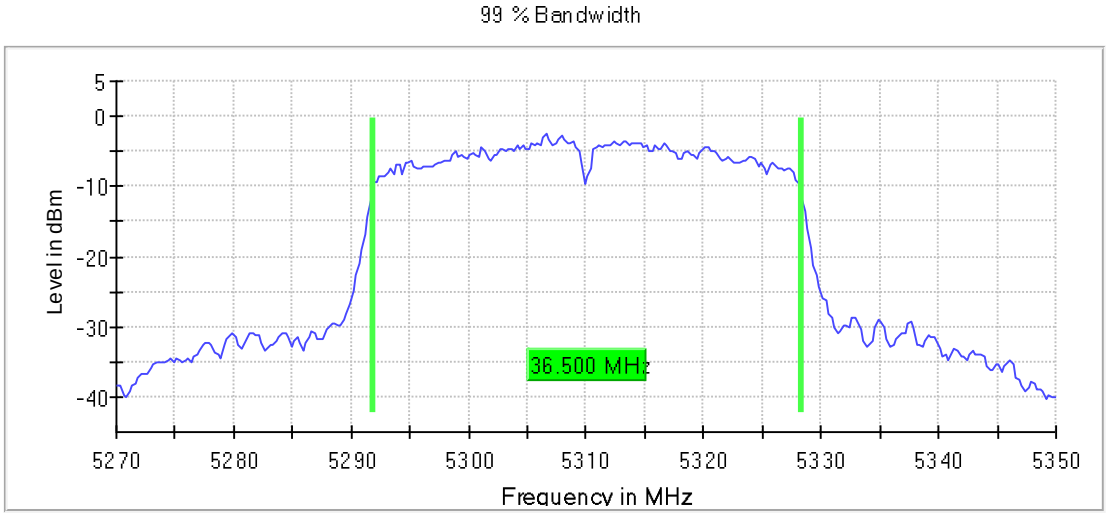
Frequency MHz = 5270.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:



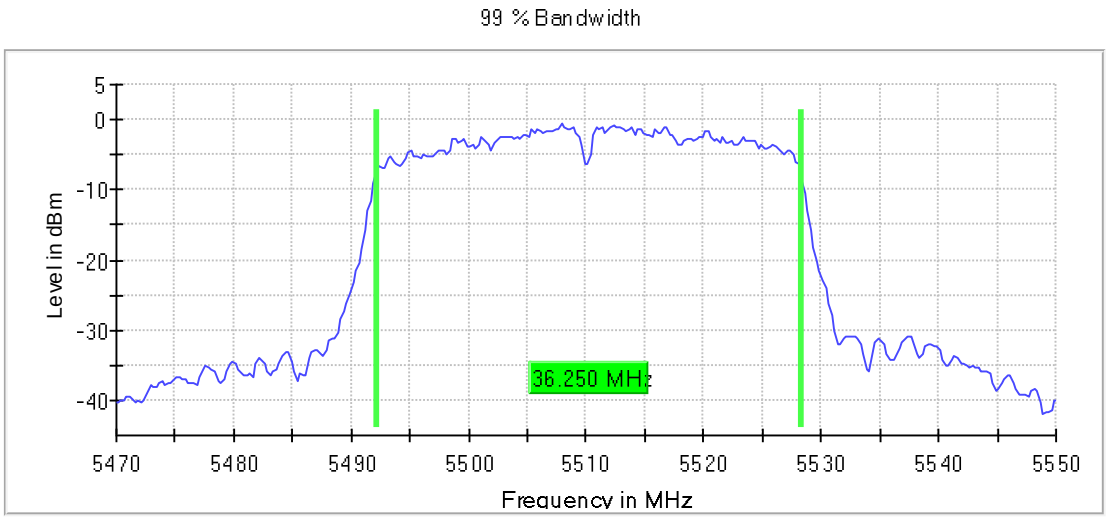
Frequency MHz = 5310.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:



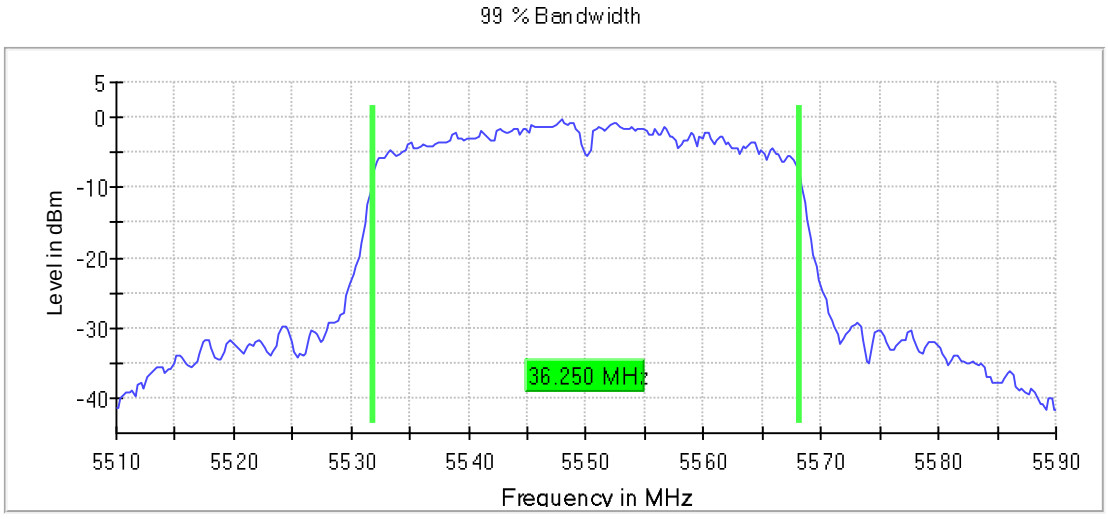
Frequency MHz = 5510.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:



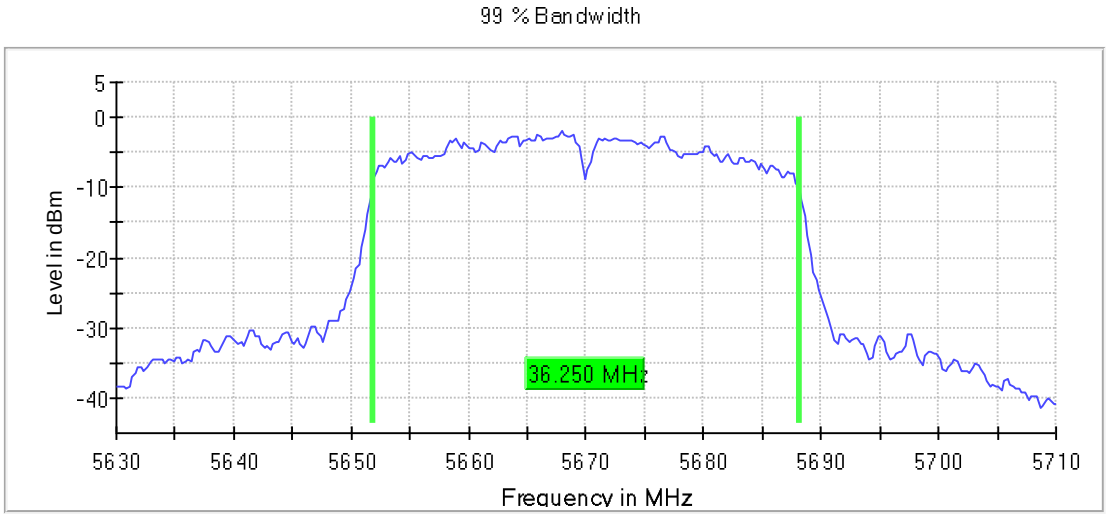
Frequency MHz = 5550.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:



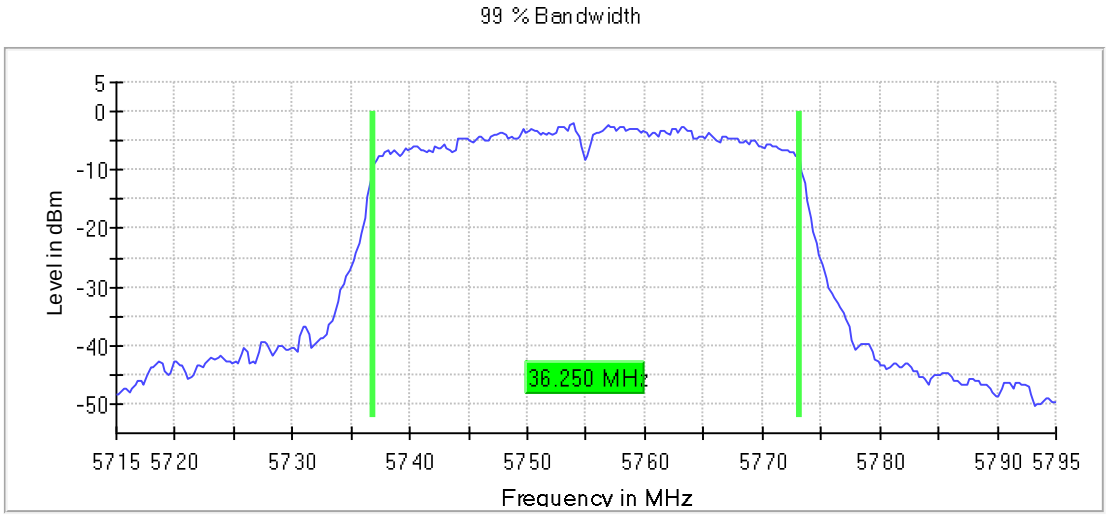
Frequency MHz = 5670.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:



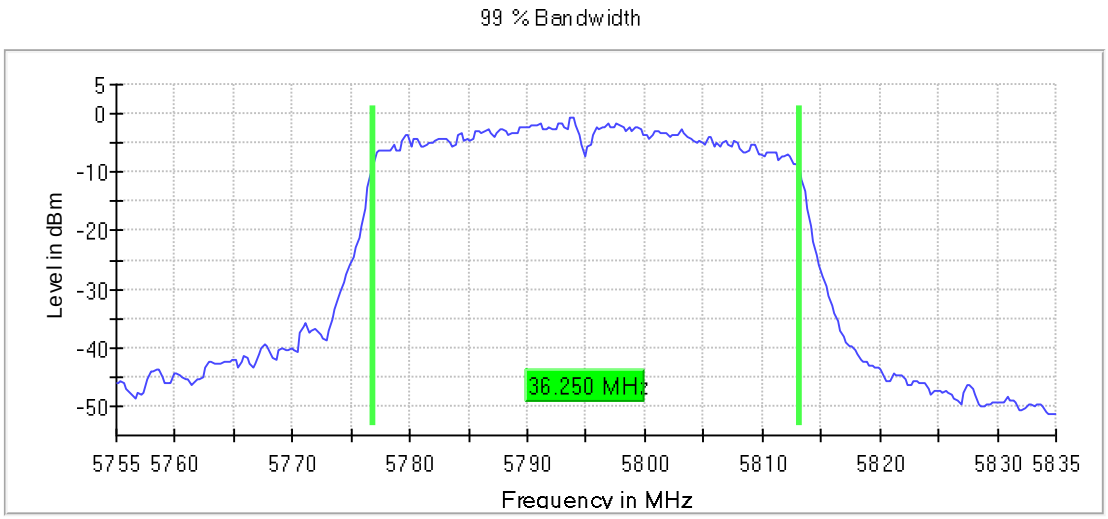
Frequency MHz = 5755.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:



Frequency MHz = 5795.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:



Tables:
Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Start Frequency	5.19000 GHz	5.19000 GHz
Stop Frequency	5.27000 GHz	5.27000 GHz
Span	80.000 MHz	80.000 MHz
RBW	500.000 kHz	>= 400.000 kHz
VBW	2.000 MHz	>= 1.500 MHz
SweepPoints	320	~ 320
Sweeptime	18.906 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 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
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	56 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.27 dB	0.30 dB

FCC 15.403 / RSS-Gen 6.7 26 dB Emission Bandwidth

Limits

No Limit has been set to this test case

Modulation: 802.11a (OFDM 6 Mbit/s)

Results

Freq (MHz)	Emission Bandwidth (MHz)
5180.00000	33.100
5200.00000	35.700
5240.00000	27.000
5260.00000	37.100
5280.00000	36.500
5320.00000	35.000
5500.00000	26.400
5580.00000	34.000
5700.00000	31.100
5745.00000	19.700
5785.00000	19.500
5825.00000	19.500

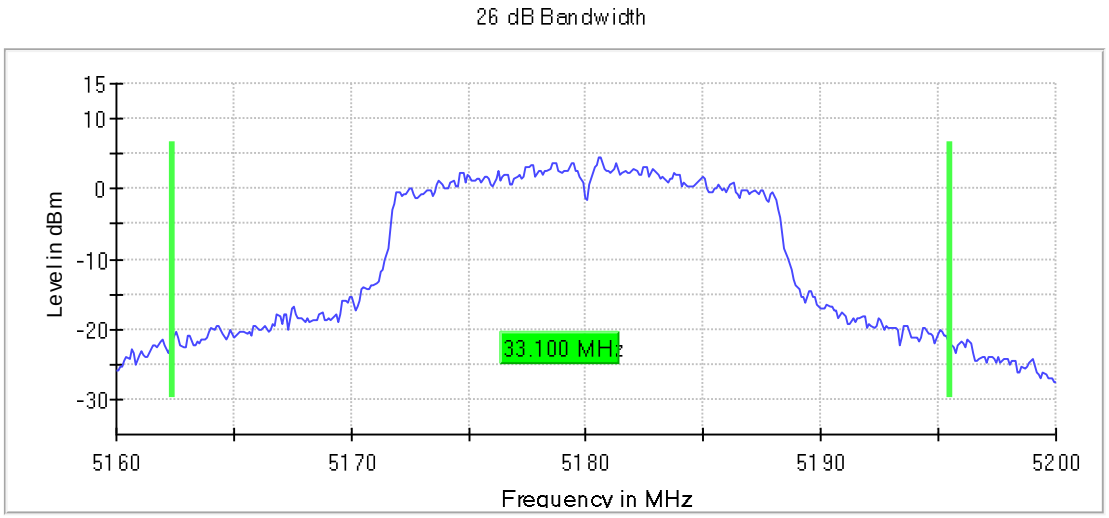
Verdict

Pass

Attachments

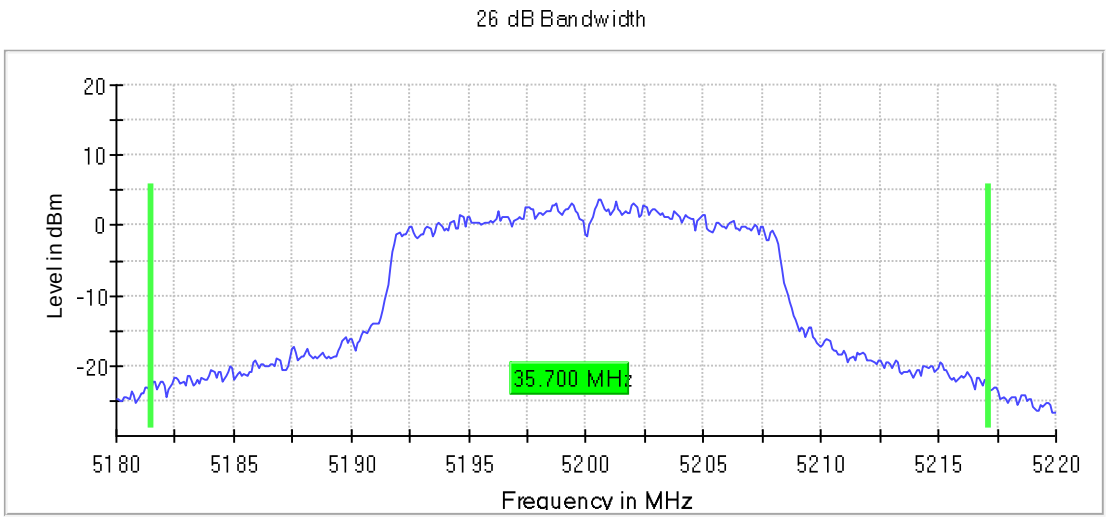
Frequency MHz = 5180.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



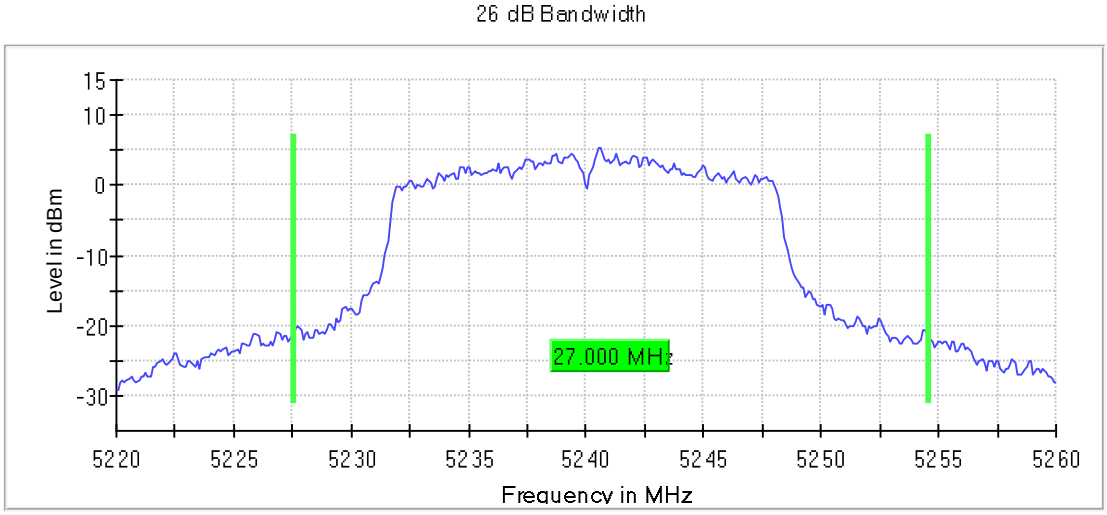
Frequency MHz = 5200.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



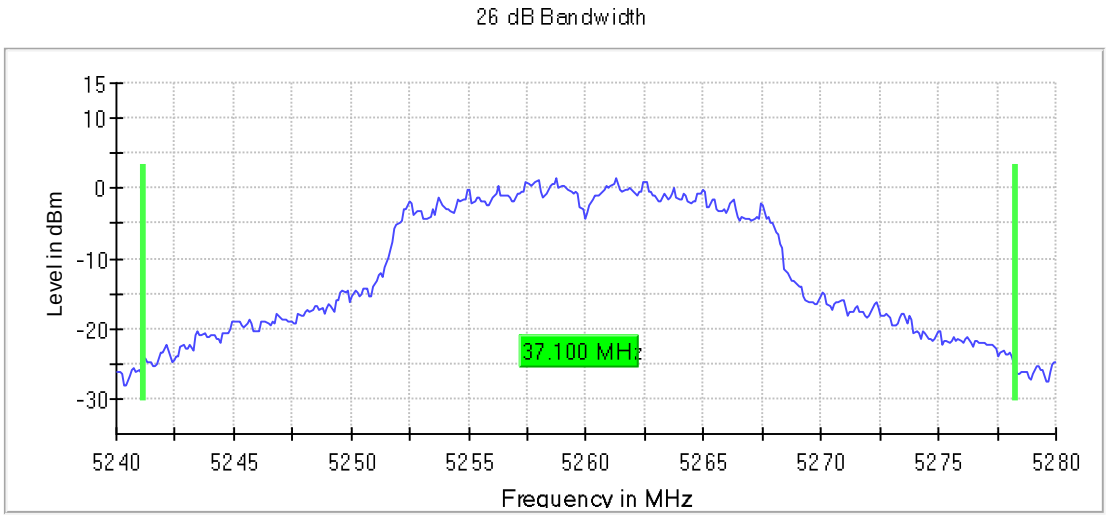
Frequency MHz = 5240.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



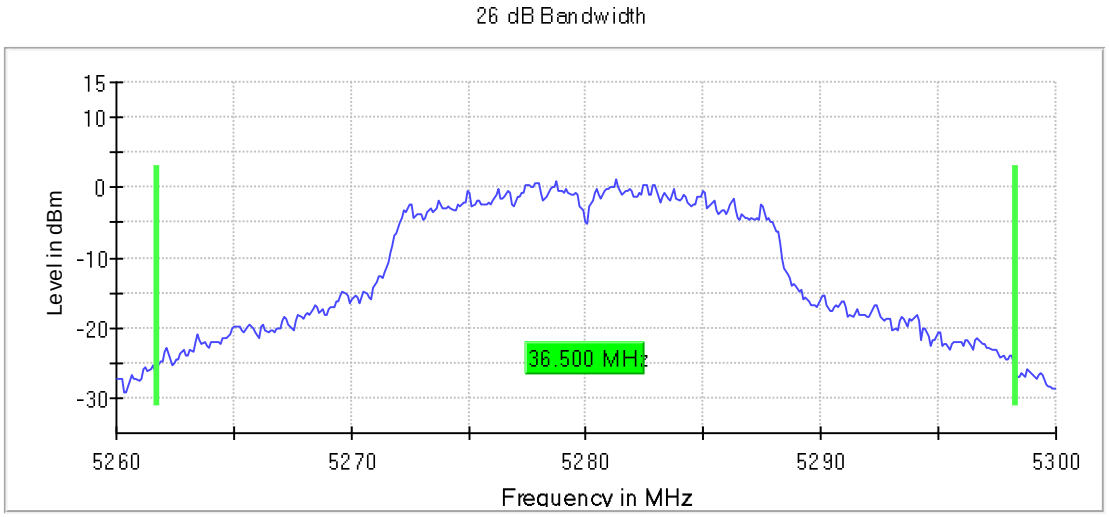
Frequency MHz = 5260.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



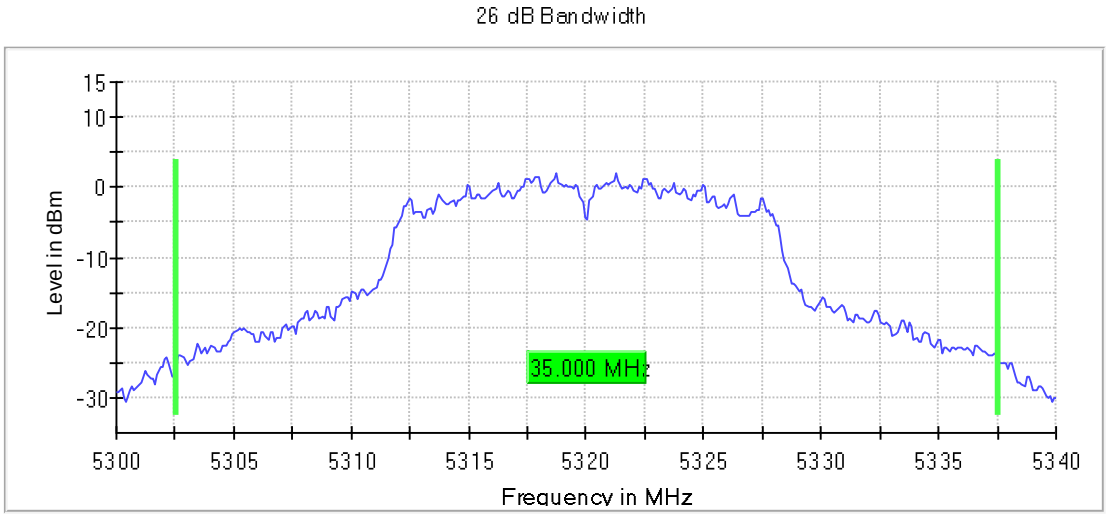
Frequency MHz = 5280.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



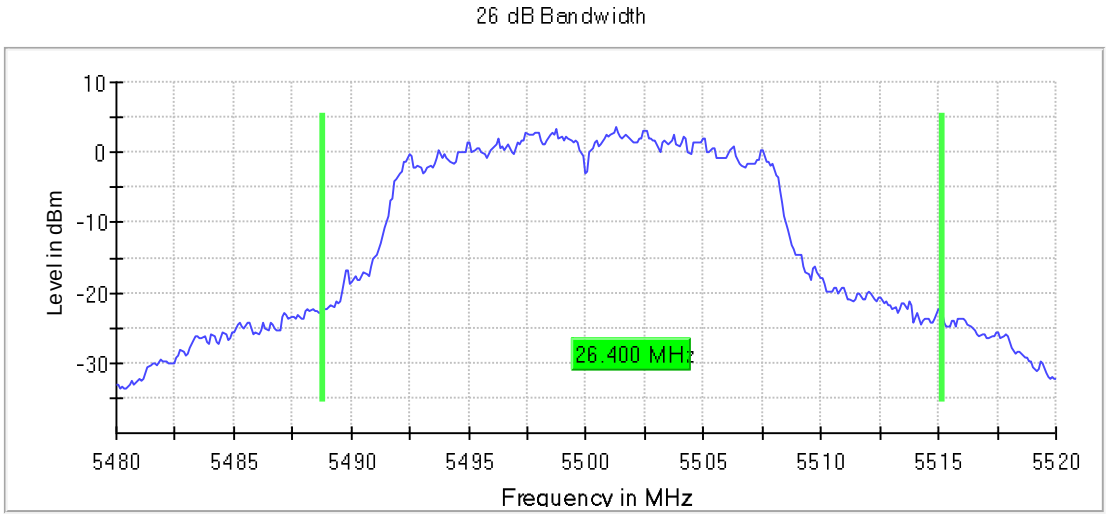
Frequency MHz = 5320.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



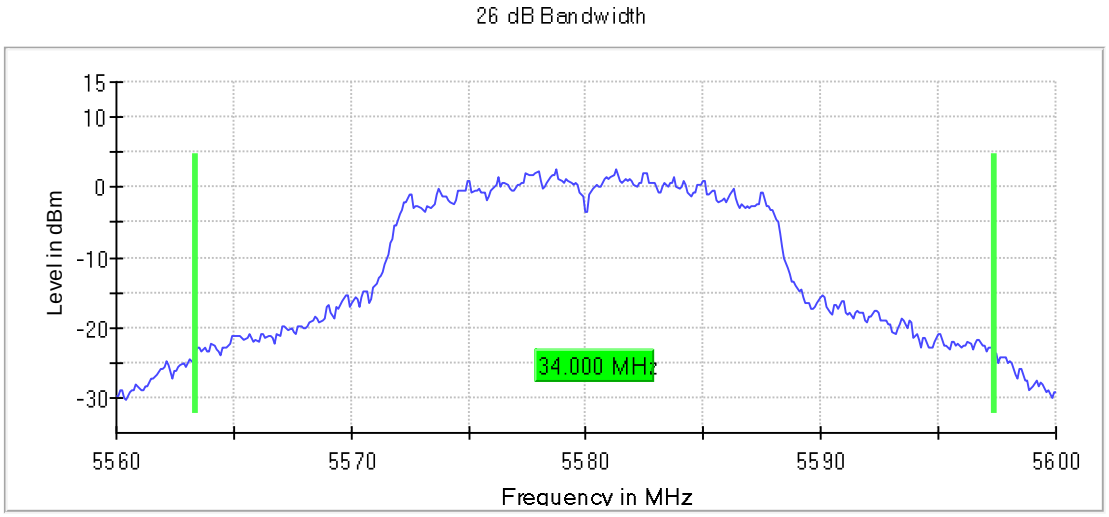
Frequency MHz = 5500.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



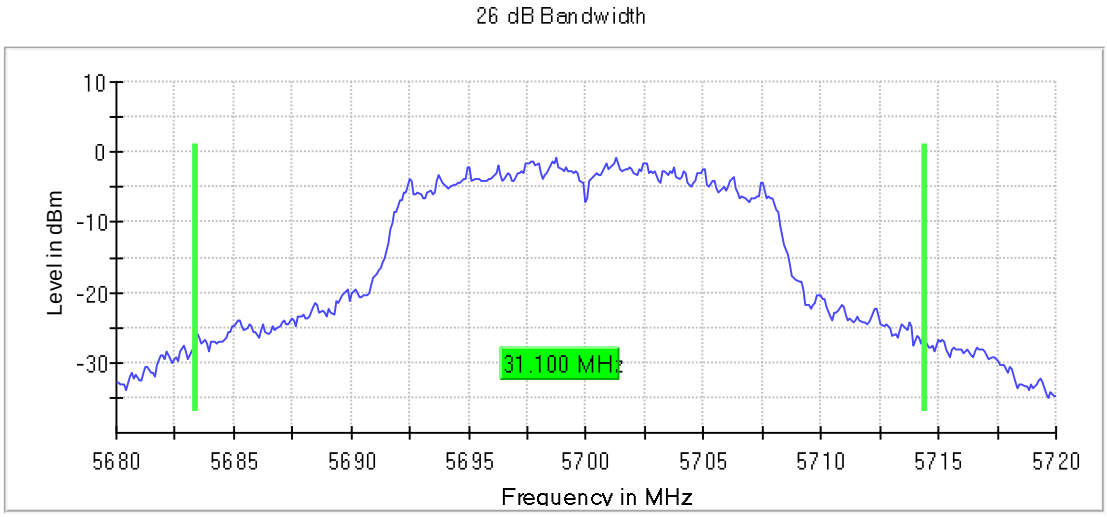
Frequency MHz = 5580.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



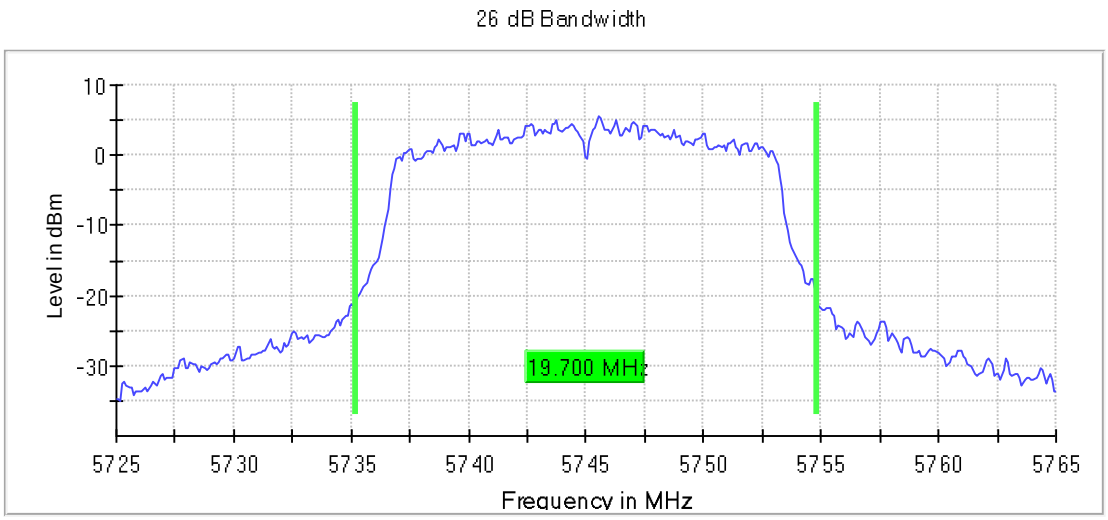
Frequency MHz = 5700.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



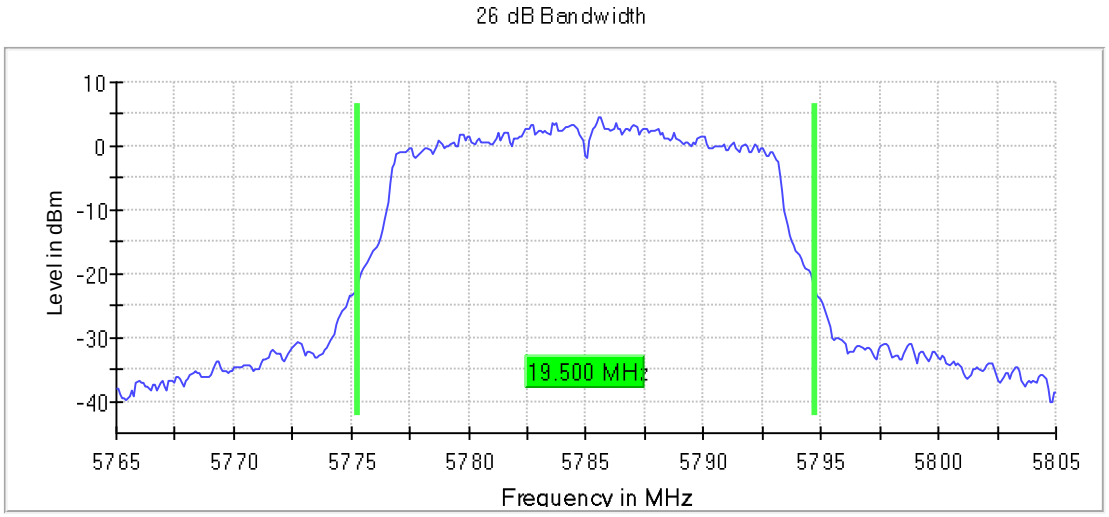
Frequency MHz = 5745.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



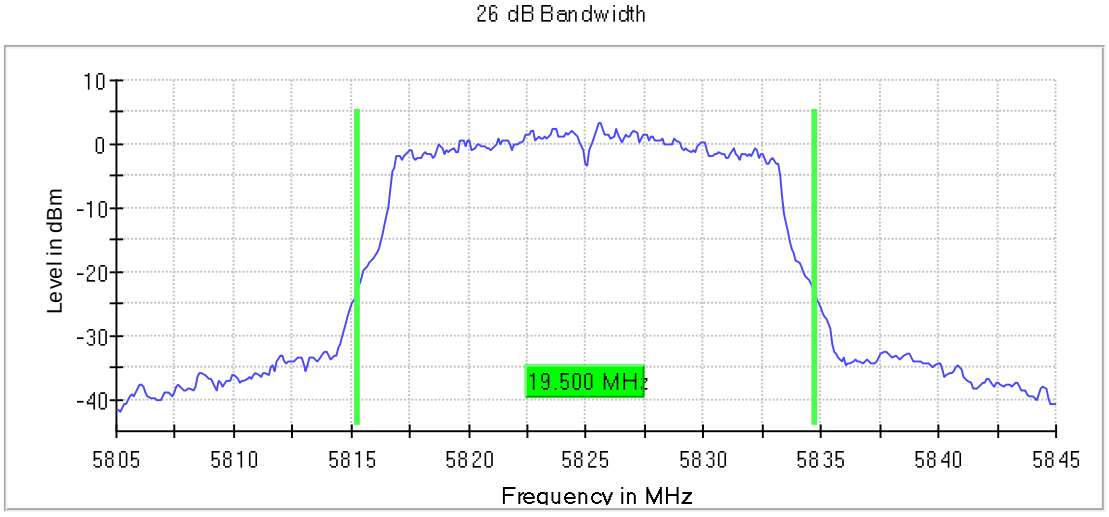
Frequency MHz = 5785.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



Frequency MHz = 5825.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



Tables:
Spectrum Analyzer Parameters

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
Sweeptime	28.477 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	56 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.03 dB	0.30 dB

Modulation: 802.11n HT20 (OFDM MCS0)
Results

Freq (MHz)	Emission Bandwidth (MHz)
5180.00000	20.200
5200.00000	20.200
5240.00000	20.200
5260.00000	23.200
5280.00000	22.300
5320.00000	20.400
5500.00000	20.100
5580.00000	20.100
5700.00000	20.300
5745.00000	20.200
5785.00000	20.100
5825.00000	20.100

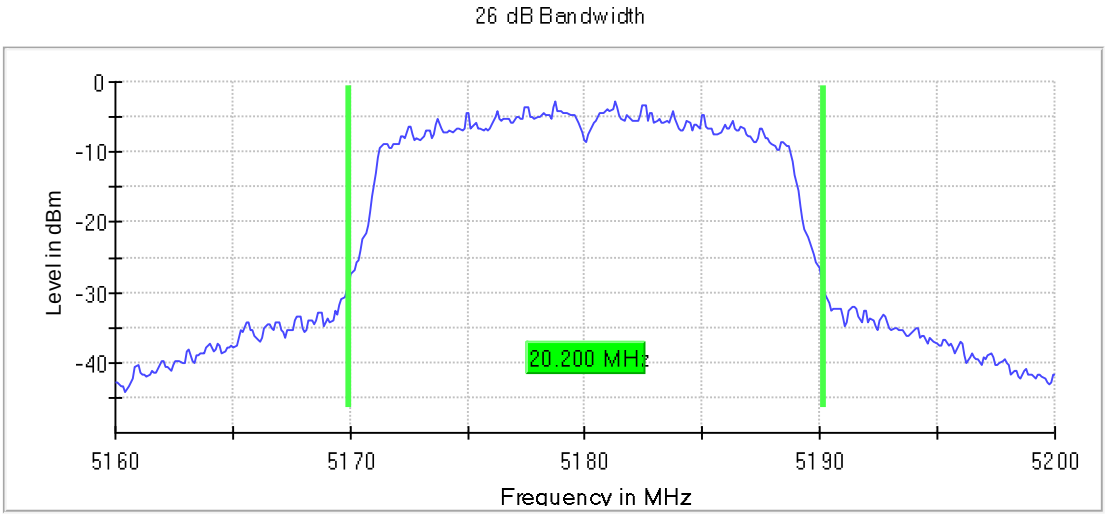
Verdict

Pass

Attachments

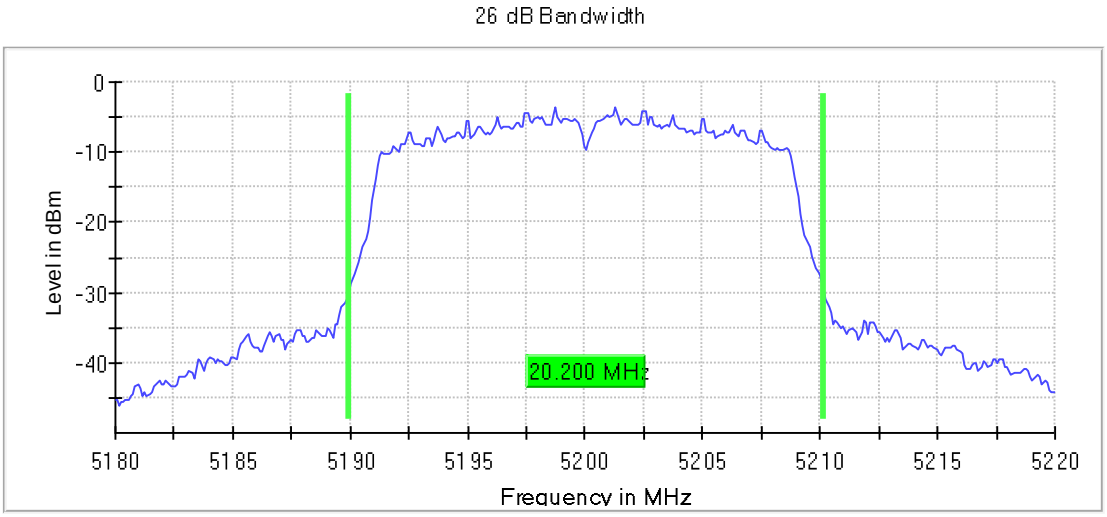
Frequency MHz = 5180.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



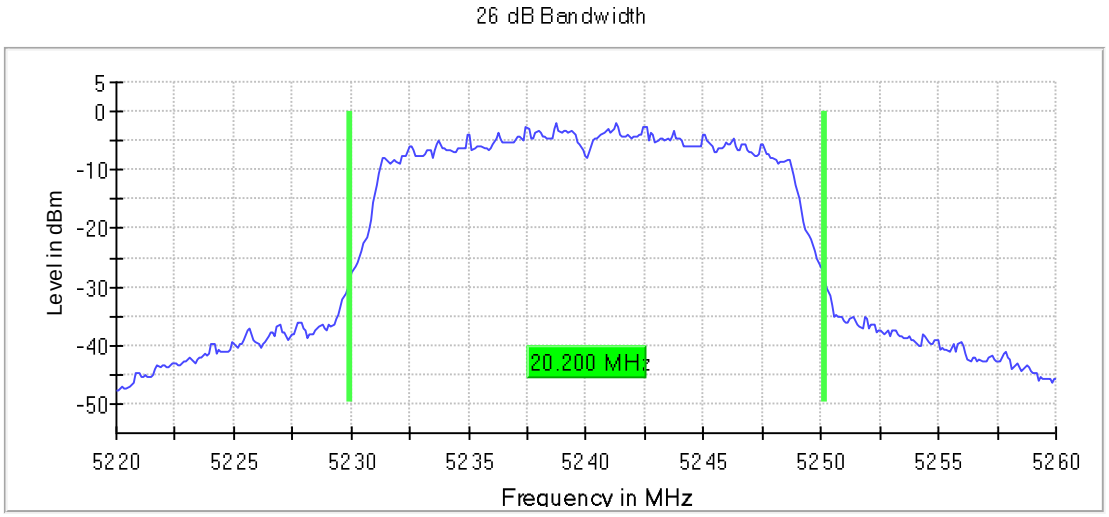
Frequency MHz = 5200.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



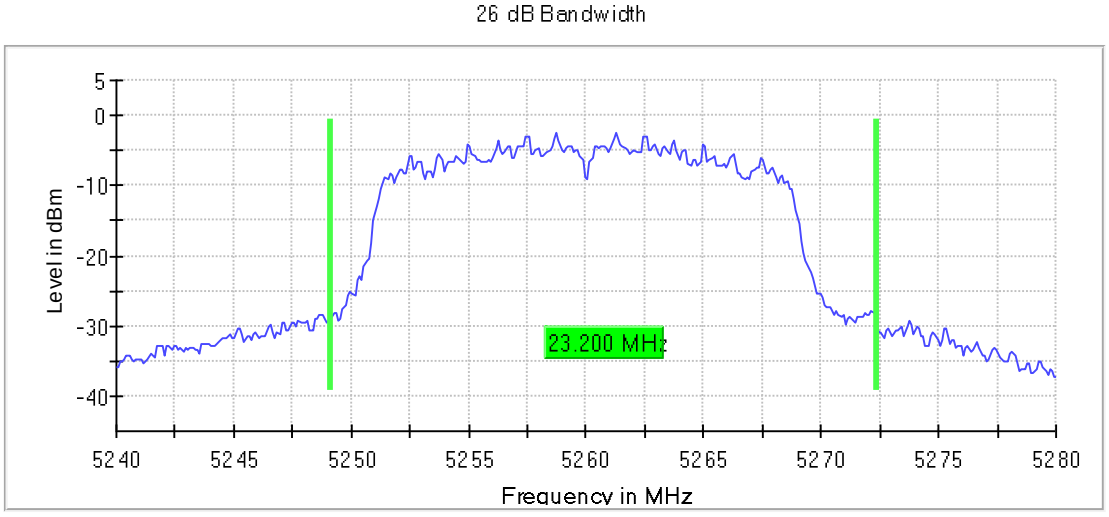
Frequency MHz = 5240.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



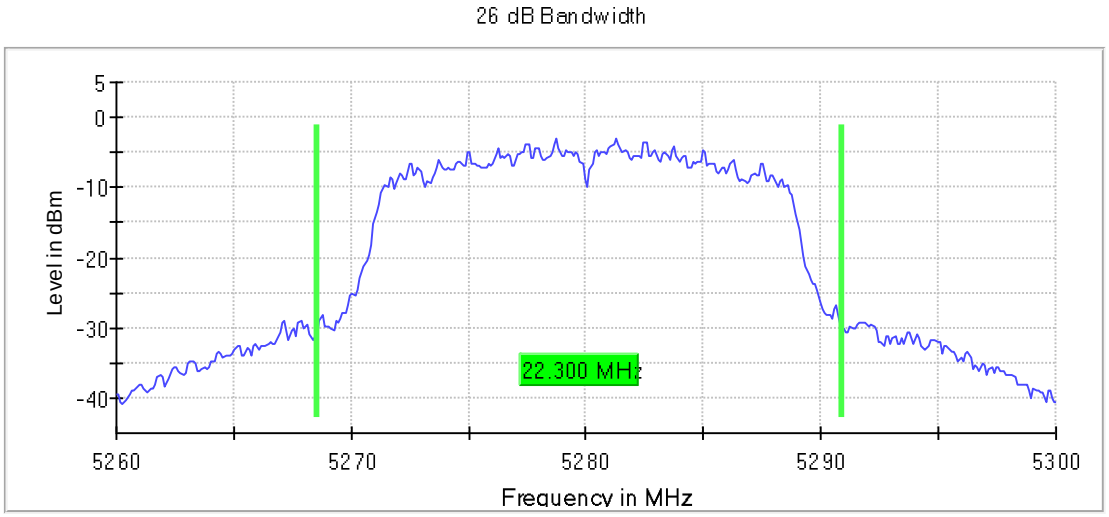
Frequency MHz = 5260.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



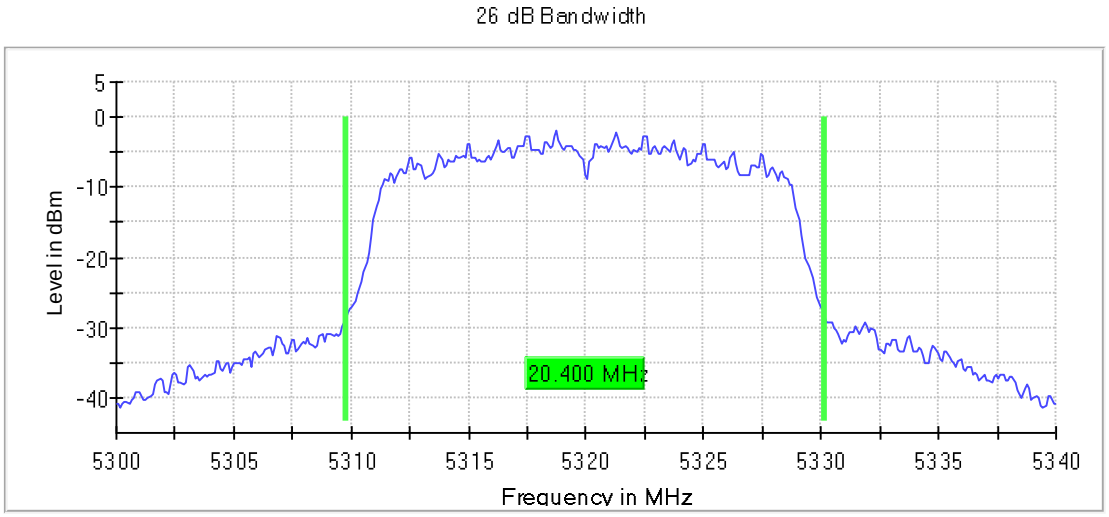
Frequency MHz = 5280.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



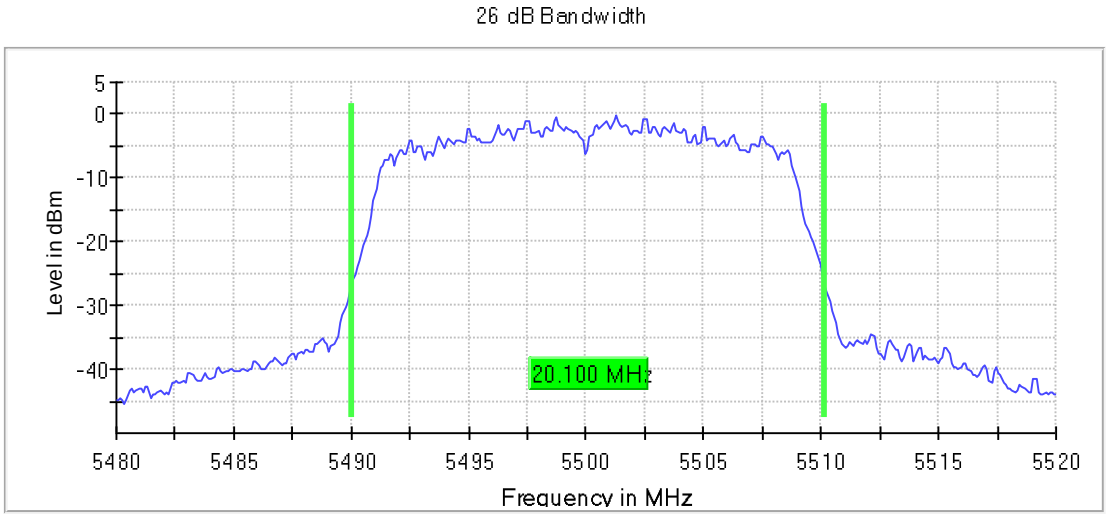
Frequency MHz = 5320.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



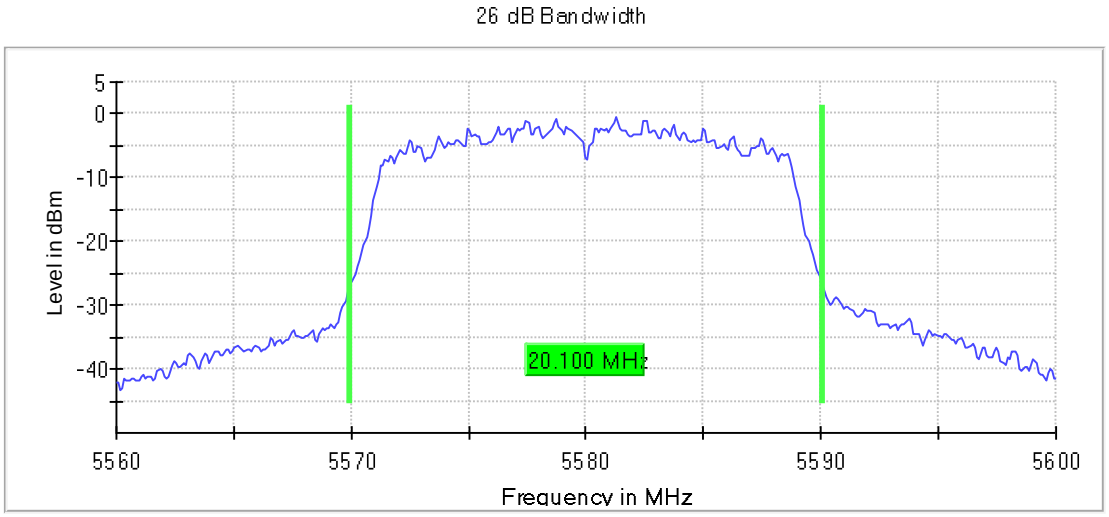
Frequency MHz = 5500.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



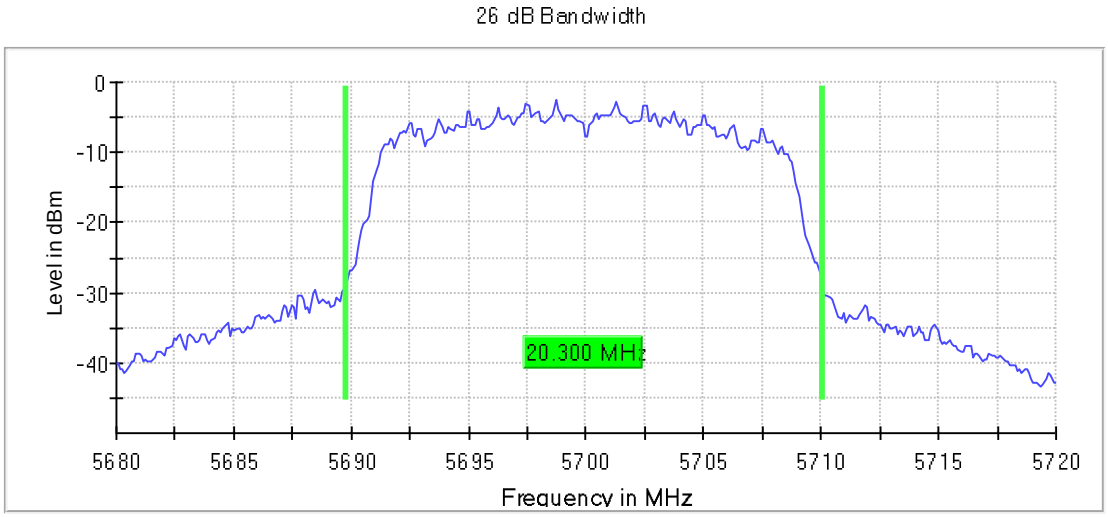
Frequency MHz = 5580.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



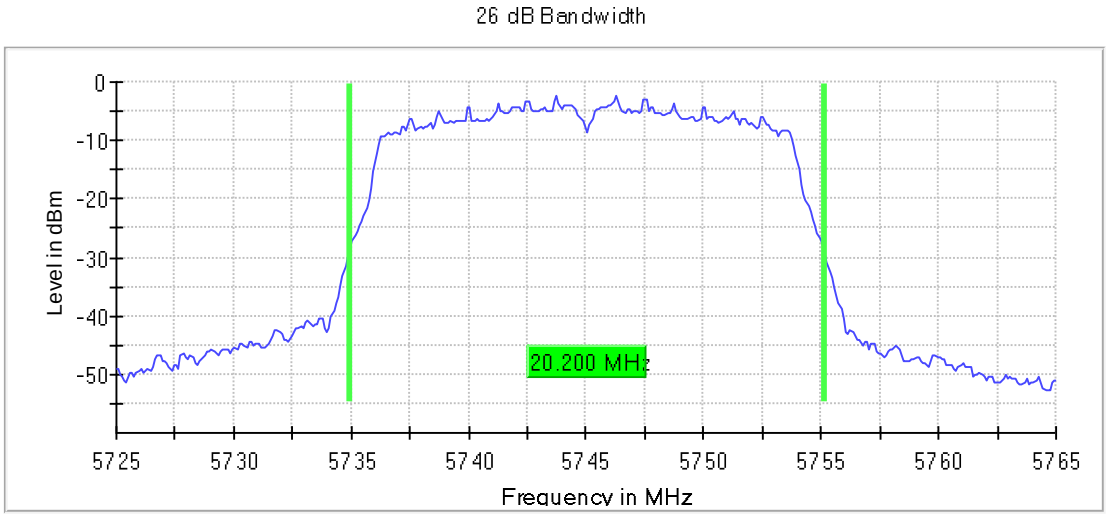
Frequency MHz = 5700.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



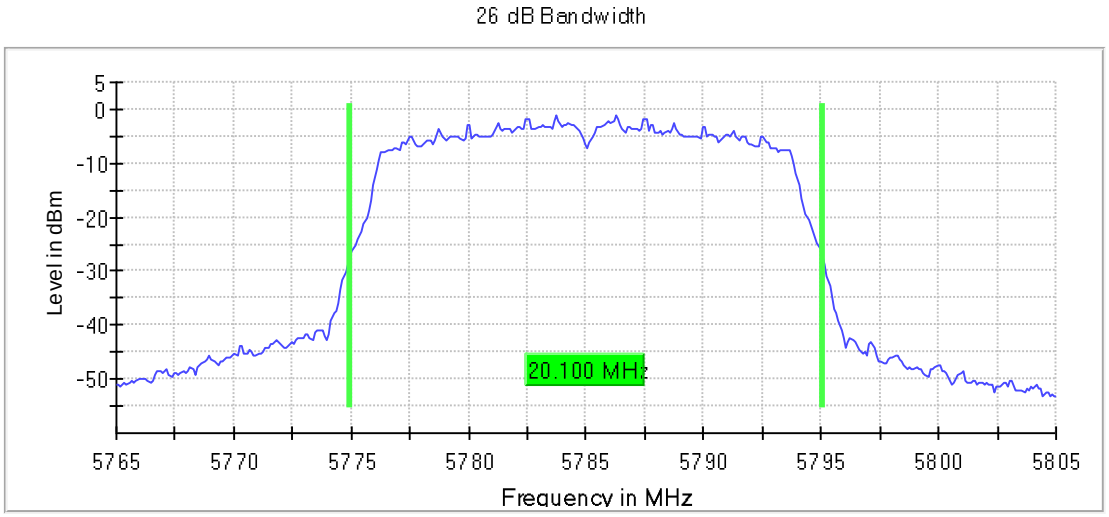
Frequency MHz = 5745.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



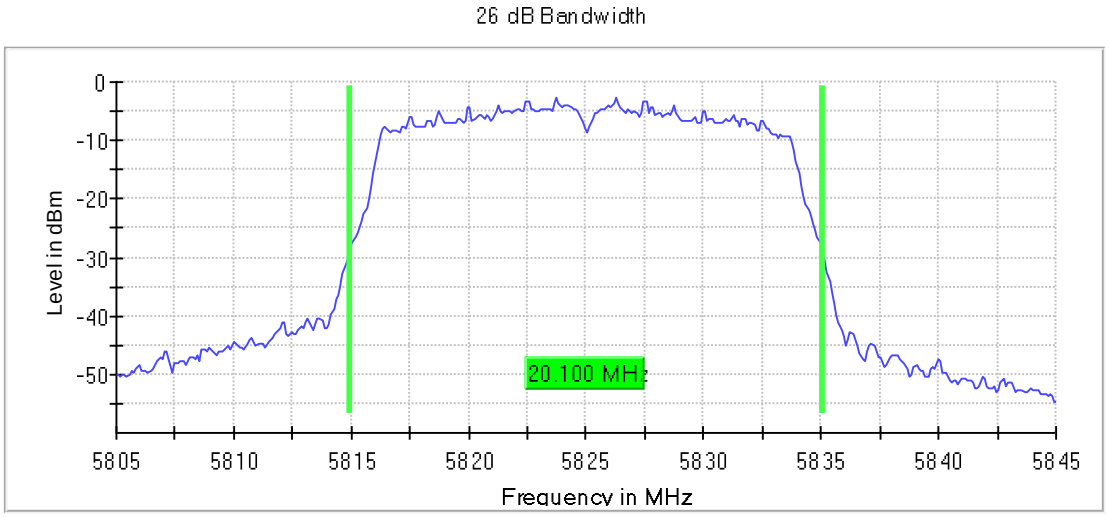
Frequency MHz = 5785.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



Frequency MHz = 5825.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



Tables:
Spectrum Analyzer Parameters

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
Sweeptime	28.477 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 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
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	38 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.16 dB	0.30 dB

Modulation: 802.11n HT40 (OFDM MCS0)
Results

Freq (MHz)	Emission Bandwidth (MHz)
5190.00000	40.075
5230.00000	39.775
5270.00000	53.734
5310.00000	40.375
5510.00000	40.375
5550.00000	40.225
5670.00000	40.976
5755.00000	39.925
5795.00000	39.625

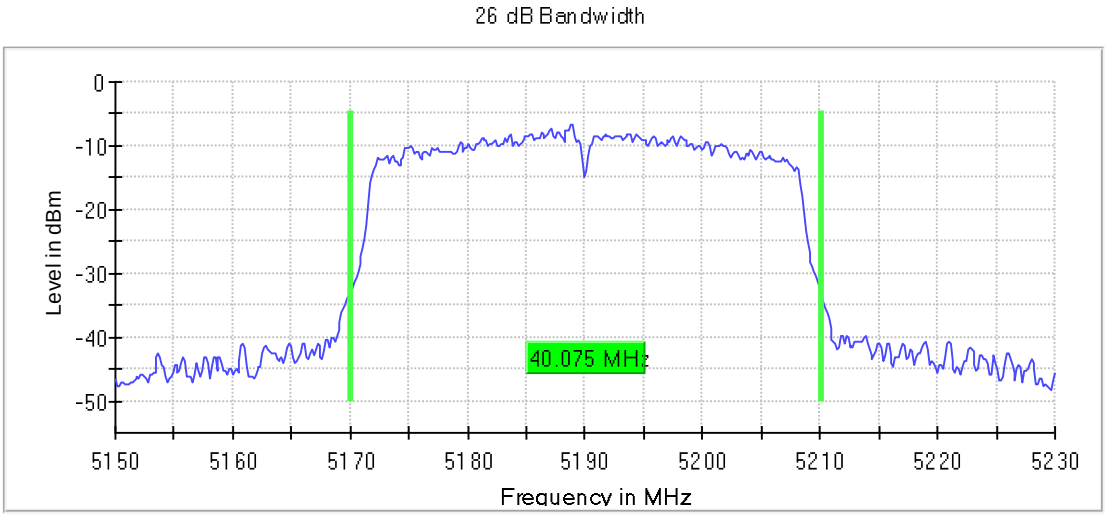
Verdict

Pass

Attachments

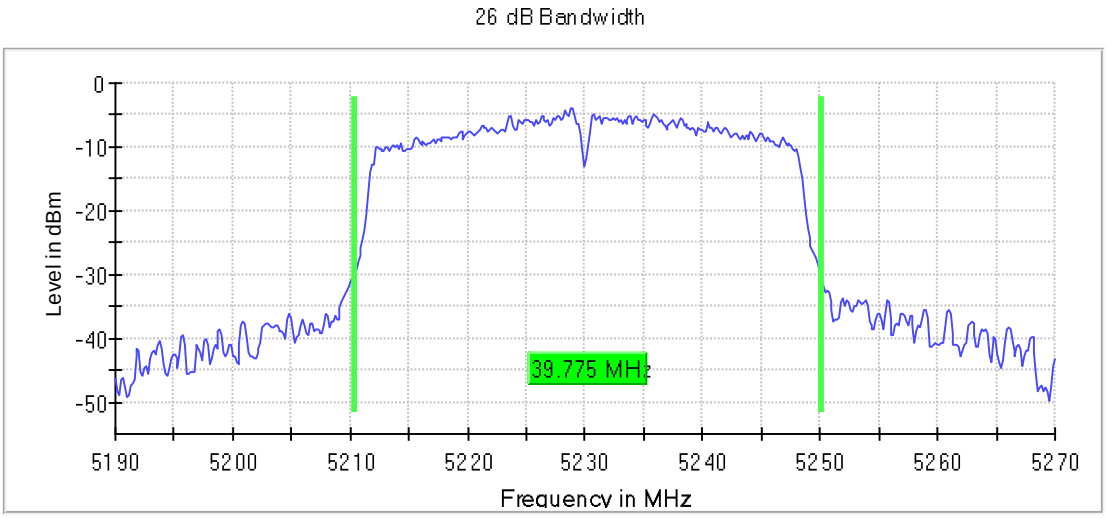
Frequency MHz = 5190.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:



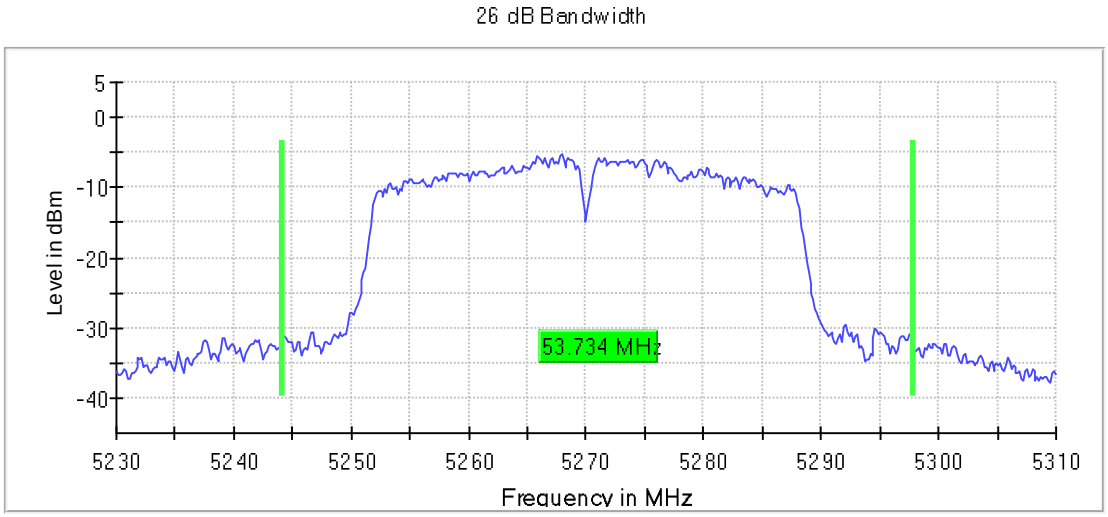
Frequency MHz = 5230.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:



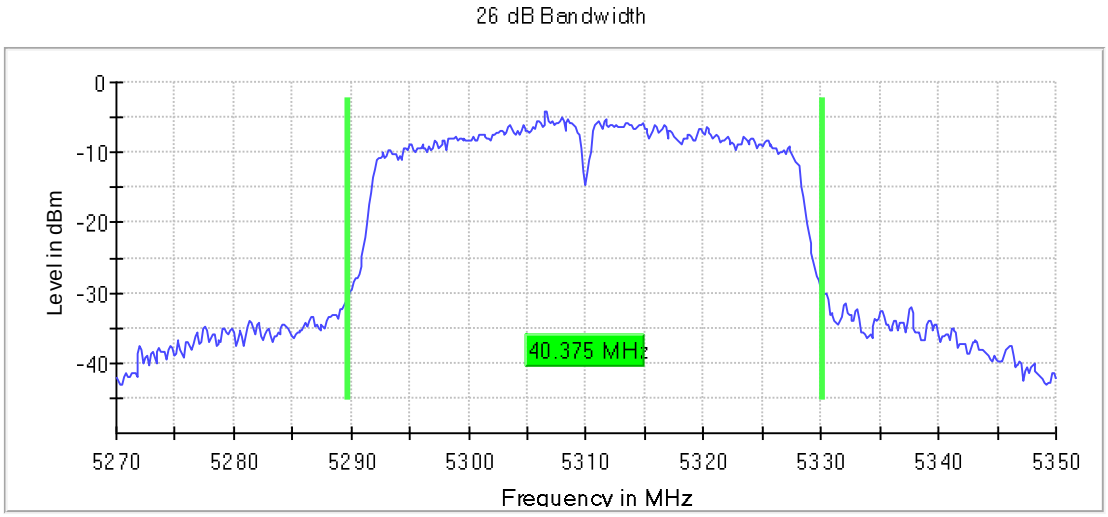
Frequency MHz = 5270.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:



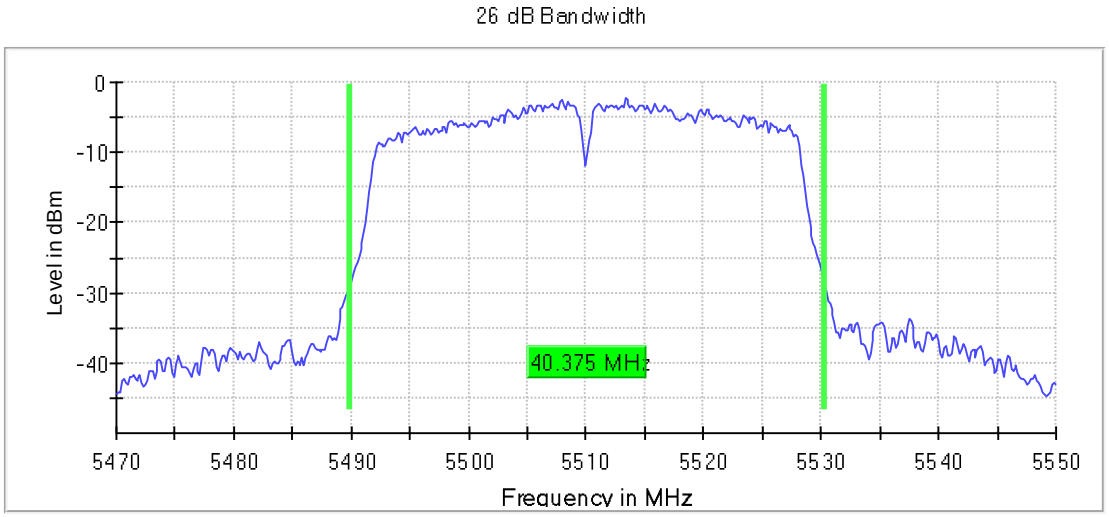
Frequency MHz = 5310.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:



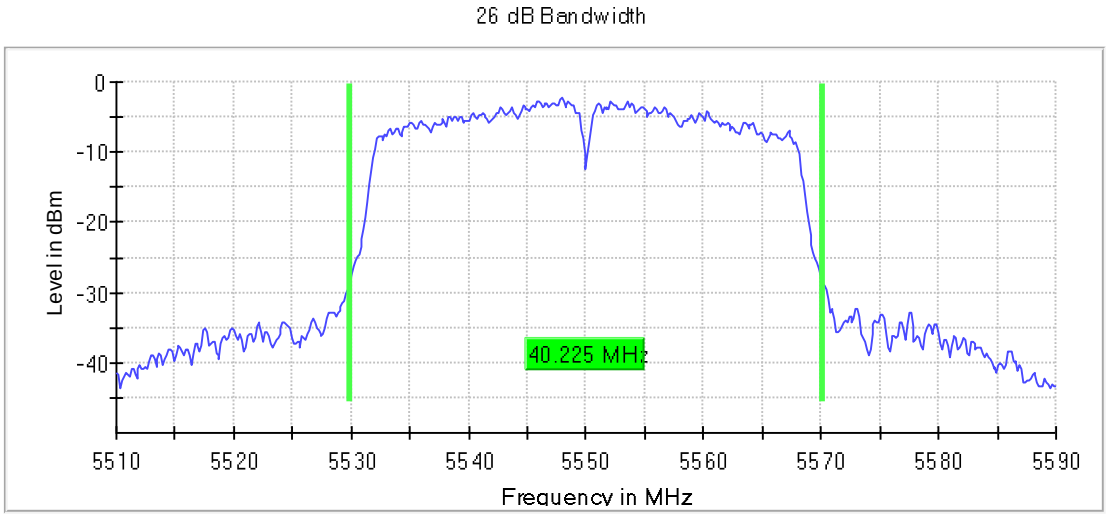
Frequency MHz = 5510.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:



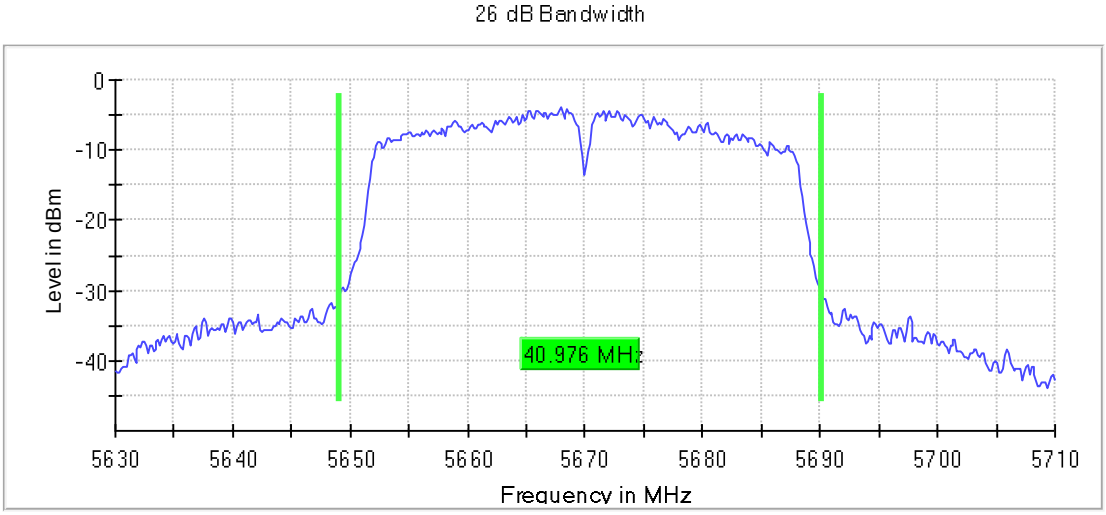
Frequency MHz = 5550.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:



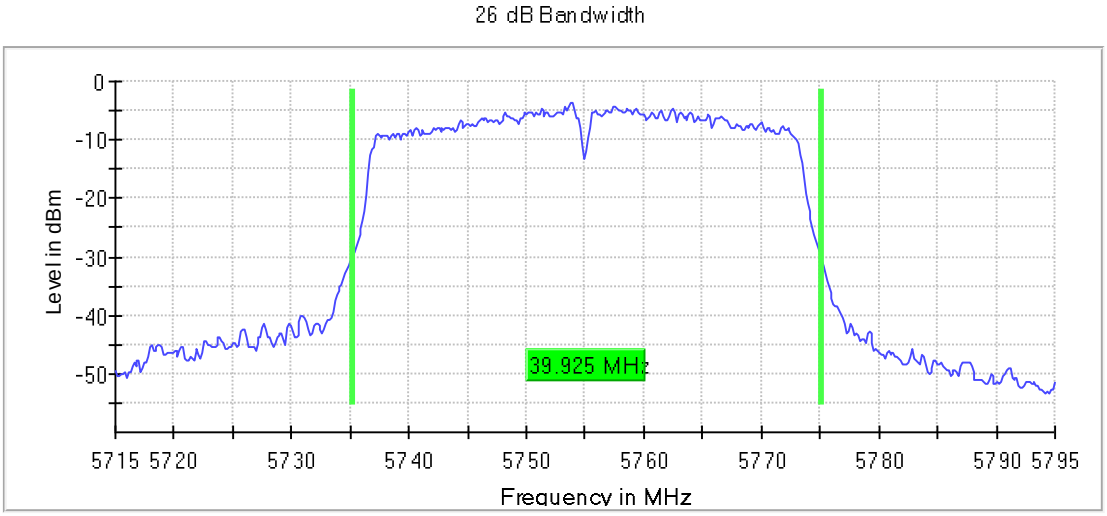
Frequency MHz = 5670.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:



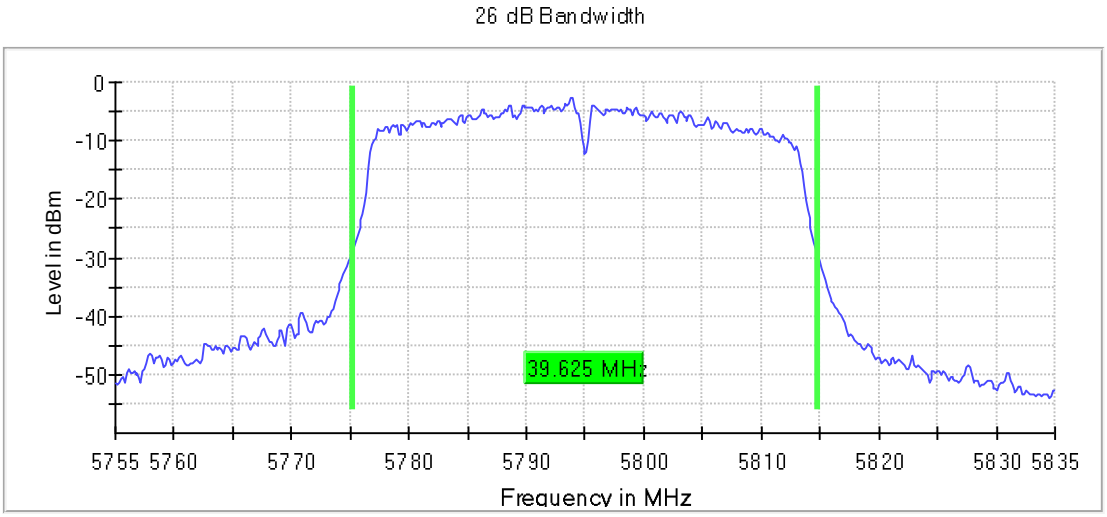
Frequency MHz = 5755.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:



Frequency MHz = 5795.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:



Tables:
Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Start Frequency	5.19000 GHz	5.19000 GHz
Stop Frequency	5.27000 GHz	5.27000 GHz
Span	80.000 MHz	80.000 MHz
RBW	300.000 kHz	~ 400.000 kHz
VBW	1.000 MHz	>= 900.000 kHz
SweepPoints	533	~ 533
Sweeptime	31.621 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 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
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	87 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.06 dB	0.30 dB

FCC 15.407 (b) / RSS-247 6.2 Band-edge Conducted Emissions

Limits

For transmitters operating in the 5.15–5.25 and 5.25–5.35 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of –27 dBm/MHz (68.20 dBµV/m at 3 m distance).

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 e.i.r.p. of −27 dBm/MHz.

For transmitters operating solely in the 5.725-5.850 GHz band: 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.

RSS 247:

For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. Any unwanted emissions that fall into the band 5250-5350 MHz shall be attenuated below the channel power by at least 26 dB, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth (i.e. 99% bandwidth), above 5250 MHz.

Emissions outside the band 5470-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p.

Devices operating in the band 5725-5850 MHz shall have e.i.r.p. of unwanted emissions comply with the following:

a. 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;
b. 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;
c. 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and
d. -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.

Modulation: 802.11a (OFDM 6 Mbit/s)
Results

U-NII-1

DUT Frequency	Result
5180.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5148.750000	-34.1	7.1	-27.0	PASS
5149.250000	-34.7	7.7	-27.0	PASS
5149.750000	-35.0	8.0	-27.0	PASS
5148.250000	-35.6	8.6	-27.0	PASS
5147.250000	-35.8	8.8	-27.0	PASS
5146.750000	-36.3	9.3	-27.0	PASS
5147.750000	-36.9	9.9	-27.0	PASS
5145.750000	-38.2	11.2	-27.0	PASS
5146.250000	-38.6	11.6	-27.0	PASS
5143.250000	-38.9	11.9	-27.0	PASS
5145.250000	-38.9	11.9	-27.0	PASS
5144.750000	-39.1	12.1	-27.0	PASS
5144.250000	-39.4	12.4	-27.0	PASS
5143.750000	-40.2	13.2	-27.0	PASS
5141.750000	-40.4	13.4	-27.0	PASS

DUT Frequency	Result
5240.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5366.750000	-44.8	17.8	-27.0	PASS
5352.750000	-45.0	18.0	-27.0	PASS
5355.250000	-45.4	18.4	-27.0	PASS
5356.750000	-45.5	18.5	-27.0	PASS
5356.250000	-45.5	18.5	-27.0	PASS
5368.750000	-45.5	18.5	-27.0	PASS
5350.250000	-45.5	18.5	-27.0	PASS
5355.750000	-45.5	18.5	-27.0	PASS
5353.750000	-45.7	18.7	-27.0	PASS
5357.250000	-45.8	18.8	-27.0	PASS
5363.250000	-45.9	18.9	-27.0	PASS
5376.750000	-45.9	18.9	-27.0	PASS
5363.750000	-45.9	18.9	-27.0	PASS
5367.250000	-45.9	18.9	-27.0	PASS
5362.750000	-46.0	19.0	-27.0	PASS

U-NII-2A

DUT Frequency	Result
5260.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5146.250000	-48.3	21.3	-27.0	PASS
5125.750000	-48.4	21.4	-27.0	PASS
5127.750000	-48.8	21.8	-27.0	PASS
5136.750000	-48.8	21.8	-27.0	PASS
5132.250000	-48.8	21.8	-27.0	PASS
5144.750000	-48.9	21.9	-27.0	PASS
5146.750000	-48.9	21.9	-27.0	PASS
5145.250000	-48.9	21.9	-27.0	PASS
5130.250000	-48.9	21.9	-27.0	PASS
5131.750000	-48.9	21.9	-27.0	PASS
5142.750000	-49.0	22.0	-27.0	PASS
5134.750000	-49.0	22.0	-27.0	PASS
5129.250000	-49.0	22.0	-27.0	PASS
5132.750000	-49.0	22.0	-27.0	PASS
5149.750000	-49.1	22.1	-27.0	PASS

DUT Frequency	Result
5320.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5350.250000	-32.0	5.0	-27.0	PASS
5351.750000	-32.1	5.1	-27.0	PASS
5352.250000	-32.5	5.5	-27.0	PASS
5352.750000	-32.7	5.7	-27.0	PASS
5353.250000	-33.3	6.3	-27.0	PASS
5350.750000	-34.1	7.1	-27.0	PASS
5353.750000	-34.8	7.8	-27.0	PASS
5351.250000	-34.8	7.8	-27.0	PASS
5354.250000	-38.0	11.0	-27.0	PASS
5355.750000	-38.2	11.2	-27.0	PASS
5357.250000	-38.5	11.5	-27.0	PASS
5356.250000	-38.9	11.9	-27.0	PASS
5358.250000	-39.1	12.1	-27.0	PASS
5356.750000	-39.7	12.7	-27.0	PASS
5354.750000	-40.3	13.3	-27.0	PASS

U-NII-2C

DUT Frequency	Result
5500.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5469.250000	-34.7	7.7	-27.0	PASS
5468.750000	-35.5	8.5	-27.0	PASS
5469.750000	-36.1	9.1	-27.0	PASS
5468.250000	-36.3	9.3	-27.0	PASS
5466.250000	-37.2	10.2	-27.0	PASS
5466.750000	-37.3	10.3	-27.0	PASS
5467.250000	-37.3	10.3	-27.0	PASS
5465.250000	-37.9	10.9	-27.0	PASS
5467.750000	-37.9	10.9	-27.0	PASS
5464.750000	-38.3	11.3	-27.0	PASS
5465.750000	-38.8	11.8	-27.0	PASS
5463.250000	-39.5	12.5	-27.0	PASS
5462.750000	-40.3	13.3	-27.0	PASS
5464.250000	-40.3	13.3	-27.0	PASS
5462.250000	-40.4	13.4	-27.0	PASS

DUT Frequency	Result
5700.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5726.750000	-32.8	5.8	-27.0	PASS
5725.250000	-33.2	6.2	-27.0	PASS
5726.250000	-33.9	6.9	-27.0	PASS
5725.750000	-34.8	7.8	-27.0	PASS
5728.750000	-36.6	9.6	-27.0	PASS
5728.250000	-36.7	9.7	-27.0	PASS
5727.750000	-36.8	9.8	-27.0	PASS
5727.250000	-36.8	9.8	-27.0	PASS
5729.250000	-39.7	12.7	-27.0	PASS
5730.750000	-39.7	12.7	-27.0	PASS
5732.250000	-41.0	14.0	-27.0	PASS
5731.750000	-41.0	14.0	-27.0	PASS
5731.250000	-41.1	14.1	-27.0	PASS
5729.750000	-41.4	14.4	-27.0	PASS
5730.250000	-42.0	15.0	-27.0	PASS

U-NII-3

DUT Frequency	Result
5745.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5613.750000	-42.5	15.5	-27.0	PASS
5618.750000	-42.8	15.8	-27.0	PASS
5630.750000	-42.9	15.9	-27.0	PASS
5632.750000	-43.0	16.0	-27.0	PASS
5608.250000	-43.1	16.1	-27.0	PASS
5610.250000	-43.1	16.1	-27.0	PASS
5615.750000	-43.2	16.2	-27.0	PASS
5612.750000	-43.2	16.2	-27.0	PASS
5610.750000	-43.2	16.2	-27.0	PASS
5619.750000	-43.3	16.3	-27.0	PASS
5645.250000	-43.3	16.3	-27.0	PASS
5622.250000	-43.3	16.3	-27.0	PASS
5618.250000	-43.3	16.3	-27.0	PASS
5606.250000	-43.3	16.3	-27.0	PASS
5552.250000	-43.3	16.3	-27.0	PASS

DUT Frequency	Result
5825.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5967.750000	-33.3	6.3	-27.0	PASS
6010.750000	-36.1	9.1	-27.0	PASS
5913.750000	-31.2	12.6	-18.7	PASS
6074.250000	-43.9	16.9	-27.0	PASS
5984.750000	-44.5	17.5	-27.0	PASS
5950.250000	-44.8	17.8	-27.0	PASS
5960.250000	-45.1	18.1	-27.0	PASS
5927.250000	-45.3	18.3	-27.0	PASS
6021.750000	-45.4	18.4	-27.0	PASS
5925.250000	-45.4	18.4	-27.0	PASS
5981.250000	-45.4	18.4	-27.0	PASS
5945.750000	-45.4	18.4	-27.0	PASS
5978.250000	-45.4	18.4	-27.0	PASS
5981.750000	-45.4	18.4	-27.0	PASS
5985.250000	-45.5	18.5	-27.0	PASS

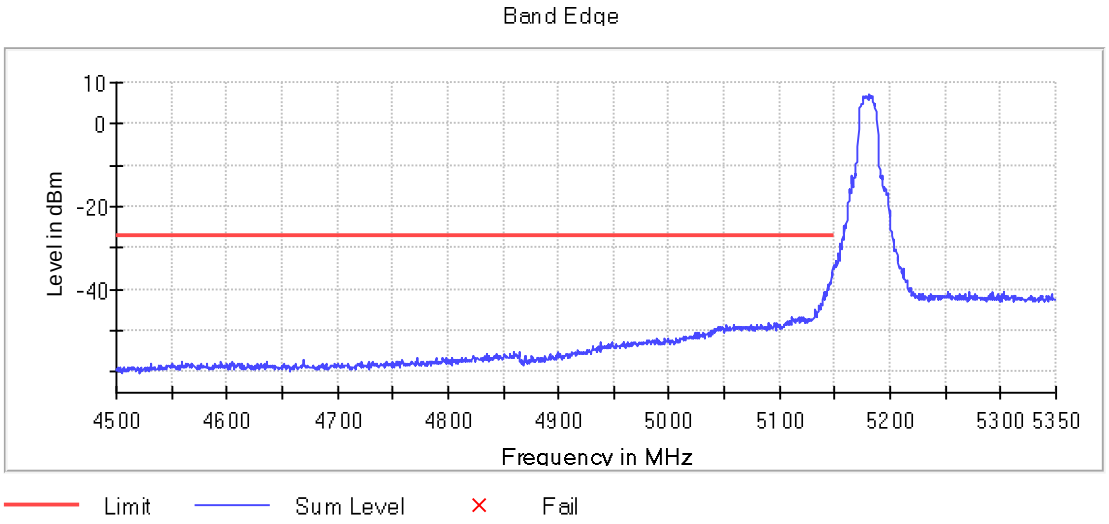
Verdict

Pass

Attachments

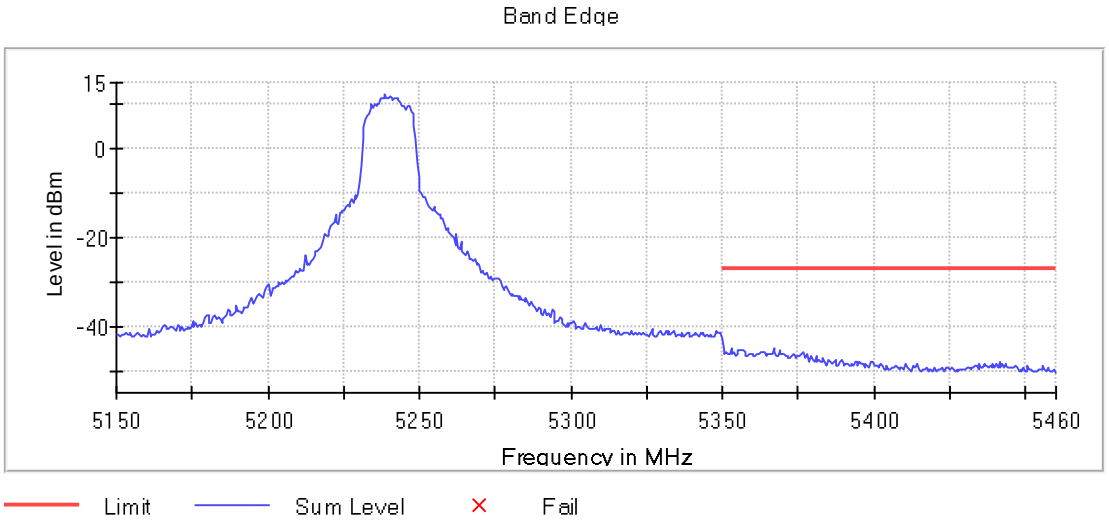
Frequency MHz = 5180.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Mode = SISO A, Measurement Point = 1

Images:



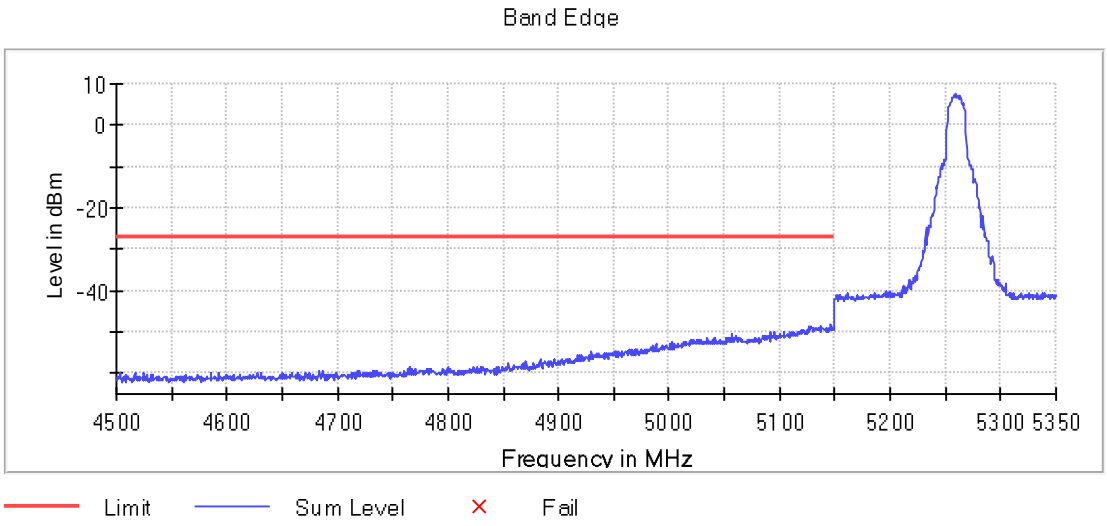
Frequency MHz = 5240.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Mode = SISO A, Measurement Point = 1

Images:



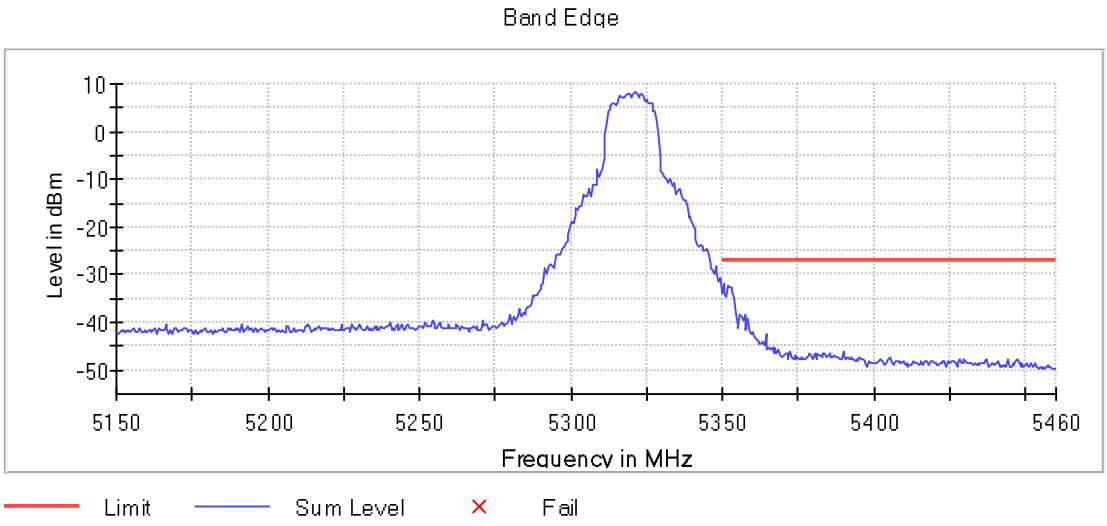
Frequency MHz = 5260.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Mode = SISO A, Measurement Point = 1

Images:



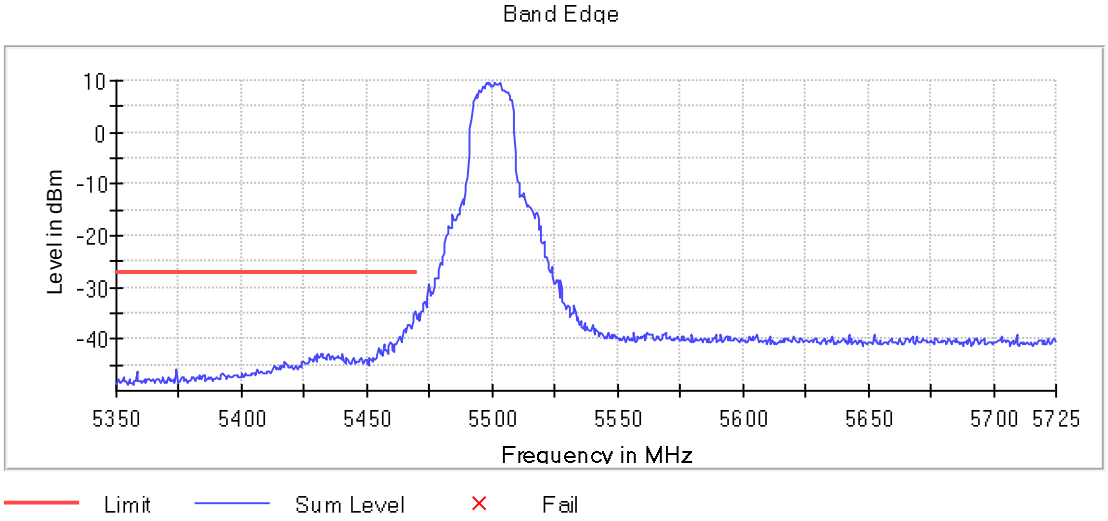
Frequency MHz = 5320.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Mode = SISO A, Measurement Point = 1

Images:



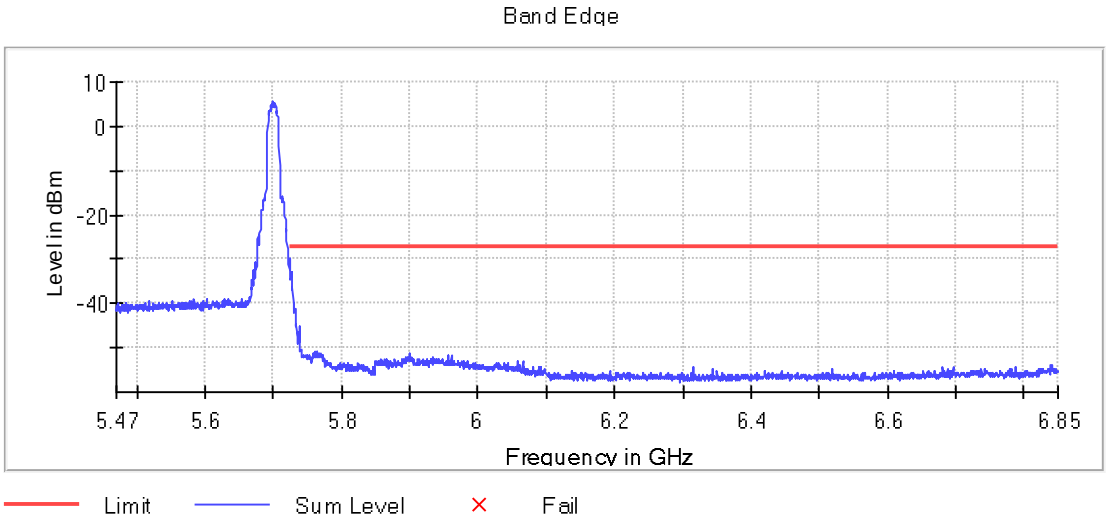
Frequency MHz = 5500.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Mode = SISO A, Measurement Point = 1

Images:



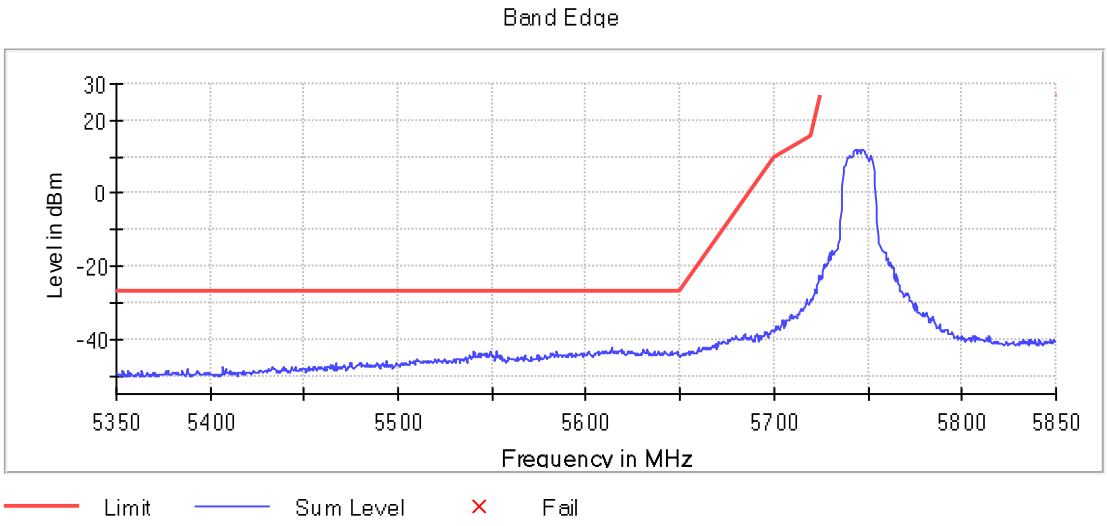
Frequency MHz = 5700.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Mode = SISO A, Measurement Point = 1

Images:



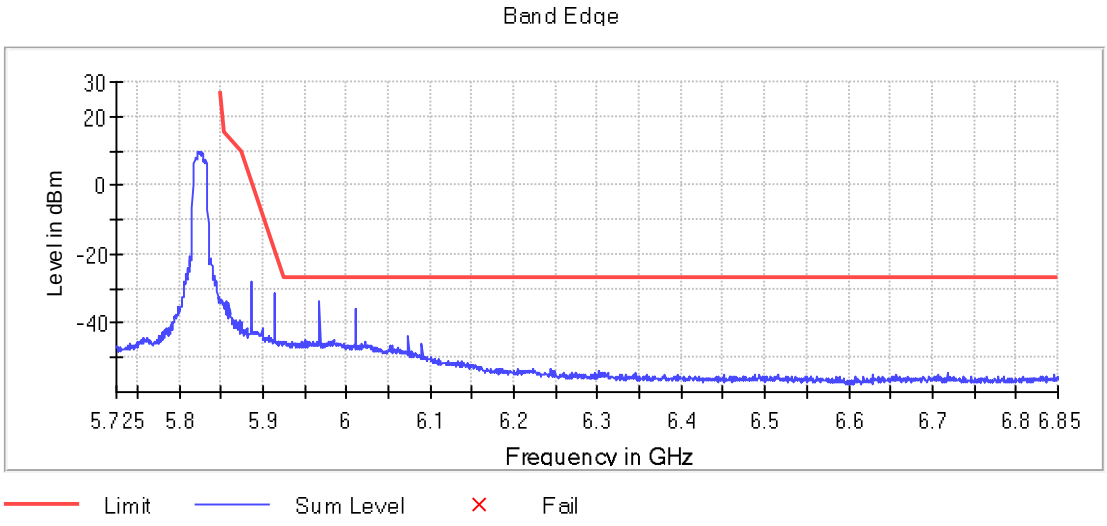
Frequency MHz = 5745.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Mode = SISO A, Measurement Point = 1

Images:



Frequency MHz = 5825.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Mode = SISO A, Measurement Point = 1

Images:



Modulation: 802.11n HT20 (OFDM MCS0)
Results

U-NII-1

DUT Frequency	Result
5180.000000	PASS

DUT Frequency	Result
5240.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5092.250000	-38.2	11.2	-27.0	PASS
5148.250000	-44.5	17.5	-27.0	PASS
5147.750000	-45.0	18.0	-27.0	PASS
5149.750000	-45.7	18.7	-27.0	PASS
5149.250000	-45.7	18.7	-27.0	PASS
5147.250000	-46.1	19.1	-27.0	PASS
5146.250000	-46.2	19.2	-27.0	PASS
5138.250000	-46.3	19.3	-27.0	PASS
5148.750000	-46.4	19.4	-27.0	PASS
5144.750000	-46.5	19.5	-27.0	PASS
5145.250000	-46.5	19.5	-27.0	PASS
4972.250000	-46.5	19.5	-27.0	PASS
5145.750000	-46.6	19.6	-27.0	PASS
5146.750000	-46.6	19.6	-27.0	PASS
5143.750000	-46.7	19.7	-27.0	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5360.250000	-51.5	24.5	-27.0	PASS
5350.750000	-51.6	24.6	-27.0	PASS
5361.250000	-51.6	24.6	-27.0	PASS
5367.750000	-51.7	24.7	-27.0	PASS
5364.250000	-51.9	24.9	-27.0	PASS
5367.250000	-52.0	25.0	-27.0	PASS
5351.750000	-52.0	25.0	-27.0	PASS
5366.750000	-52.0	25.0	-27.0	PASS
5366.250000	-52.2	25.2	-27.0	PASS
5377.250000	-52.2	25.2	-27.0	PASS
5357.750000	-52.2	25.2	-27.0	PASS
5352.250000	-52.3	25.3	-27.0	PASS
5351.250000	-52.3	25.3	-27.0	PASS
5359.750000	-52.3	25.3	-27.0	PASS
5356.250000	-52.4	25.4	-27.0	PASS

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DUT Frequency	Result
5260.000000	PASS

DUT Frequency	Result
5320.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5143.750000	-48.3	21.3	-27.0	PASS
5146.750000	-48.4	21.4	-27.0	PASS
5148.250000	-48.4	21.4	-27.0	PASS
5144.750000	-48.7	21.7	-27.0	PASS
5148.750000	-48.9	21.9	-27.0	PASS
5133.750000	-49.0	22.0	-27.0	PASS
5143.250000	-49.0	22.0	-27.0	PASS
5135.750000	-49.0	22.0	-27.0	PASS
5147.750000	-49.1	22.1	-27.0	PASS
5145.250000	-49.1	22.1	-27.0	PASS
5144.250000	-49.1	22.1	-27.0	PASS
5130.250000	-49.1	22.1	-27.0	PASS
5149.750000	-49.1	22.1	-27.0	PASS
5140.250000	-49.1	22.1	-27.0	PASS
5137.750000	-49.1	22.1	-27.0	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5351.250000	-45.1	18.1	-27.0	PASS
5389.250000	-45.4	18.4	-27.0	PASS
5353.250000	-45.5	18.5	-27.0	PASS
5352.750000	-45.5	18.5	-27.0	PASS
5350.750000	-45.6	18.6	-27.0	PASS
5350.250000	-45.6	18.6	-27.0	PASS
5364.250000	-45.6	18.6	-27.0	PASS
5369.250000	-45.7	18.7	-27.0	PASS
5355.250000	-45.7	18.7	-27.0	PASS
5388.750000	-45.8	18.8	-27.0	PASS
5352.250000	-45.8	18.8	-27.0	PASS
5354.250000	-45.9	18.9	-27.0	PASS
5351.750000	-45.9	18.9	-27.0	PASS
5374.250000	-46.0	19.0	-27.0	PASS
5357.250000	-46.0	19.0	-27.0	PASS

U-NII-2C

DUT Frequency	Result
5500.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5442.750000	-43.3	16.3	-27.0	PASS
5436.750000	-43.4	16.4	-27.0	PASS
5441.750000	-43.5	16.5	-27.0	PASS
5438.250000	-43.8	16.8	-27.0	PASS
5436.250000	-44.0	17.0	-27.0	PASS
5429.750000	-44.0	17.0	-27.0	PASS
5452.750000	-44.0	17.0	-27.0	PASS
5439.250000	-44.1	17.1	-27.0	PASS
5428.250000	-44.1	17.1	-27.0	PASS
5430.250000	-44.2	17.2	-27.0	PASS
5442.250000	-44.2	17.2	-27.0	PASS
5437.750000	-44.2	17.2	-27.0	PASS
5428.750000	-44.2	17.2	-27.0	PASS
5433.750000	-44.3	17.3	-27.0	PASS
5462.250000	-44.3	17.3	-27.0	PASS

DUT Frequency	Result
5700.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5725.250000	-46.4	19.4	-27.0	PASS
5725.750000	-49.4	22.4	-27.0	PASS
5728.750000	-49.7	22.7	-27.0	PASS
5728.250000	-50.1	23.1	-27.0	PASS
5731.750000	-50.2	23.2	-27.0	PASS
5733.750000	-50.3	23.3	-27.0	PASS
5727.250000	-50.4	23.4	-27.0	PASS
5729.750000	-50.6	23.6	-27.0	PASS
5762.250000	-50.6	23.6	-27.0	PASS
5726.750000	-50.6	23.6	-27.0	PASS
5763.250000	-50.8	23.8	-27.0	PASS
5768.750000	-50.8	23.8	-27.0	PASS
5745.750000	-50.9	23.9	-27.0	PASS
5726.250000	-51.0	24.0	-27.0	PASS
5730.250000	-51.0	24.0	-27.0	PASS

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DUT Frequency	Result
5745.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5619.250000	-44.4	17.4	-27.0	PASS
5610.750000	-44.6	17.6	-27.0	PASS
5623.250000	-44.7	17.7	-27.0	PASS
5641.250000	-44.7	17.7	-27.0	PASS
5612.750000	-44.8	17.8	-27.0	PASS
5645.750000	-44.8	17.8	-27.0	PASS
5615.750000	-44.8	17.8	-27.0	PASS
5622.250000	-44.8	17.8	-27.0	PASS
5649.250000	-44.9	17.9	-27.0	PASS
5610.250000	-44.9	17.9	-27.0	PASS
5616.250000	-45.0	18.0	-27.0	PASS
5635.250000	-45.0	18.0	-27.0	PASS
5628.750000	-45.1	18.1	-27.0	PASS
5618.250000	-45.1	18.1	-27.0	PASS
5617.750000	-45.1	18.1	-27.0	PASS

DUT Frequency	Result
5825.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5987.750000	-47.2	20.2	-27.0	PASS
5959.250000	-47.3	20.3	-27.0	PASS
5982.750000	-47.4	20.4	-27.0	PASS
5966.250000	-47.5	20.5	-27.0	PASS
5973.750000	-47.6	20.6	-27.0	PASS
5925.250000	-47.7	20.7	-27.0	PASS
5978.750000	-47.8	20.8	-27.0	PASS
5995.250000	-47.8	20.8	-27.0	PASS
5960.750000	-47.8	20.8	-27.0	PASS
5977.750000	-47.8	20.8	-27.0	PASS
6002.250000	-47.9	20.9	-27.0	PASS
5928.750000	-47.9	20.9	-27.0	PASS
5978.250000	-47.9	20.9	-27.0	PASS
5979.250000	-47.9	20.9	-27.0	PASS
5939.250000	-47.9	20.9	-27.0	PASS

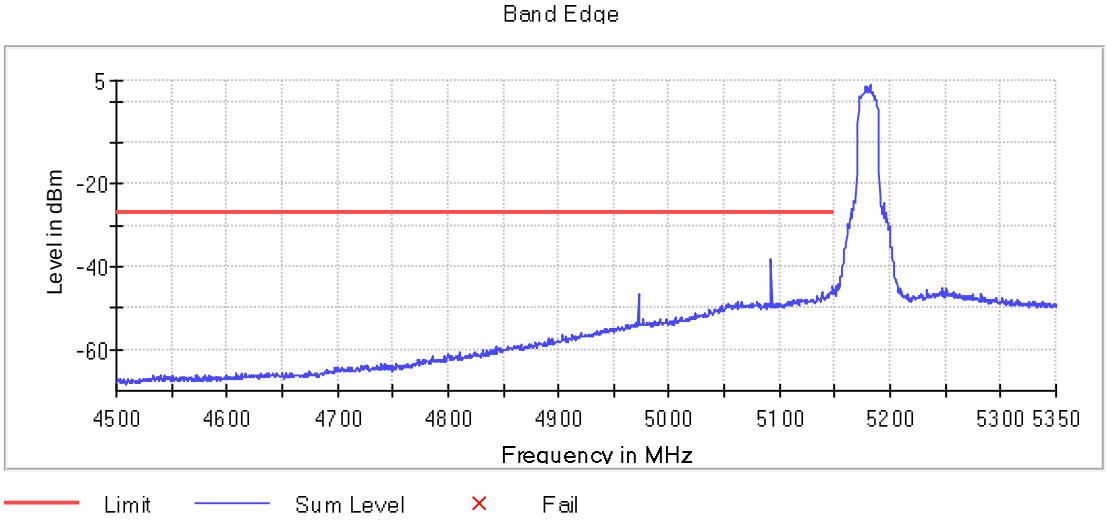
Verdict

Pass

Attachments

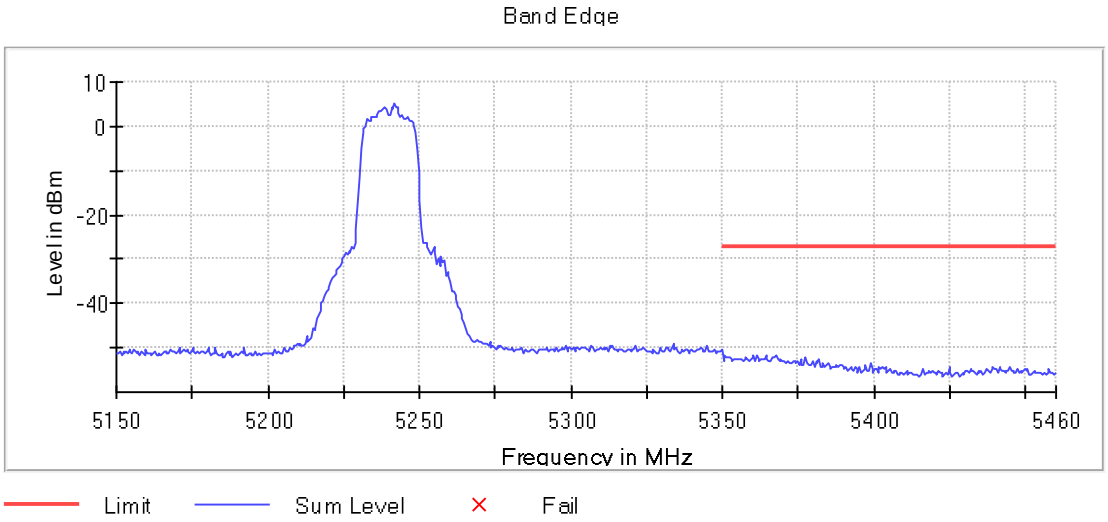
Frequency MHz = 5180.00000, Modulation = 802.11n HT20 (OFDM MCS0), Mode = SISO A, Measurement Point = 1

Images:



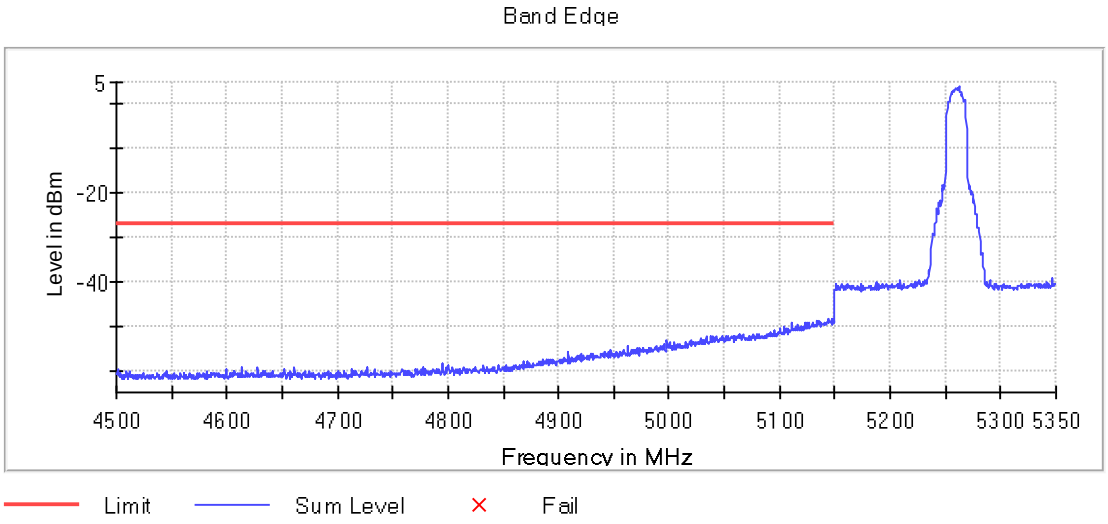
Frequency MHz = 5240.00000, Modulation = 802.11n HT20 (OFDM MCS0), Mode = SISO A, Measurement Point = 1

Images:



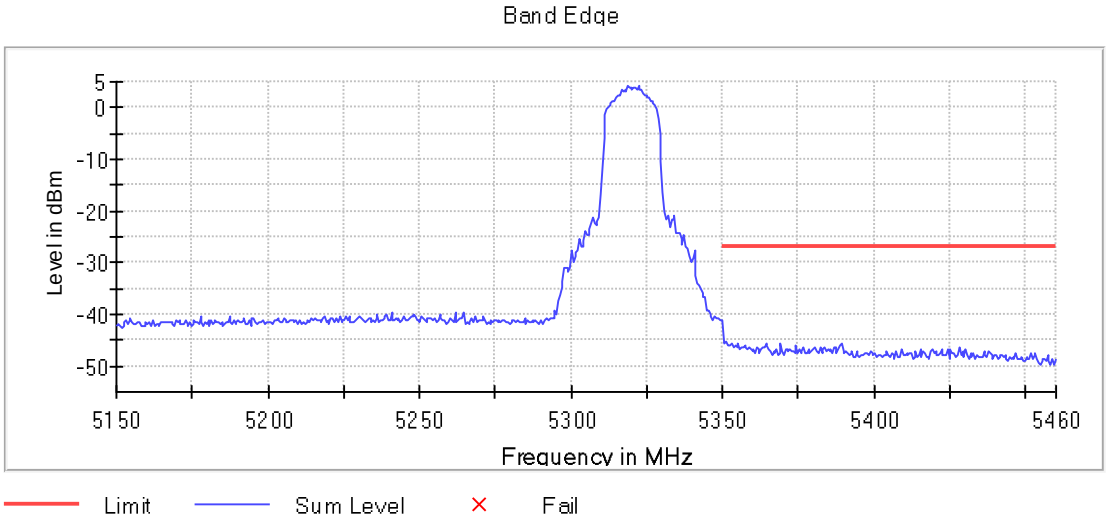
Frequency MHz = 5260.00000, Modulation = 802.11n HT20 (OFDM MCS0), Mode = SISO A, Measurement Point = 1

Images:



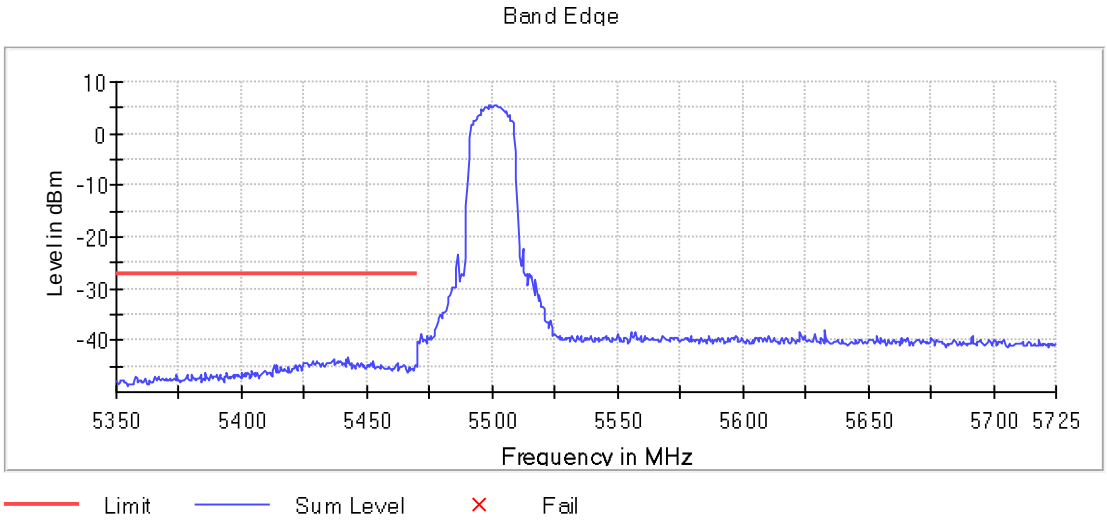
Frequency MHz = 5320.00000, Modulation = 802.11n HT20 (OFDM MCS0), Mode = SISO A, Measurement Point = 1

Images:



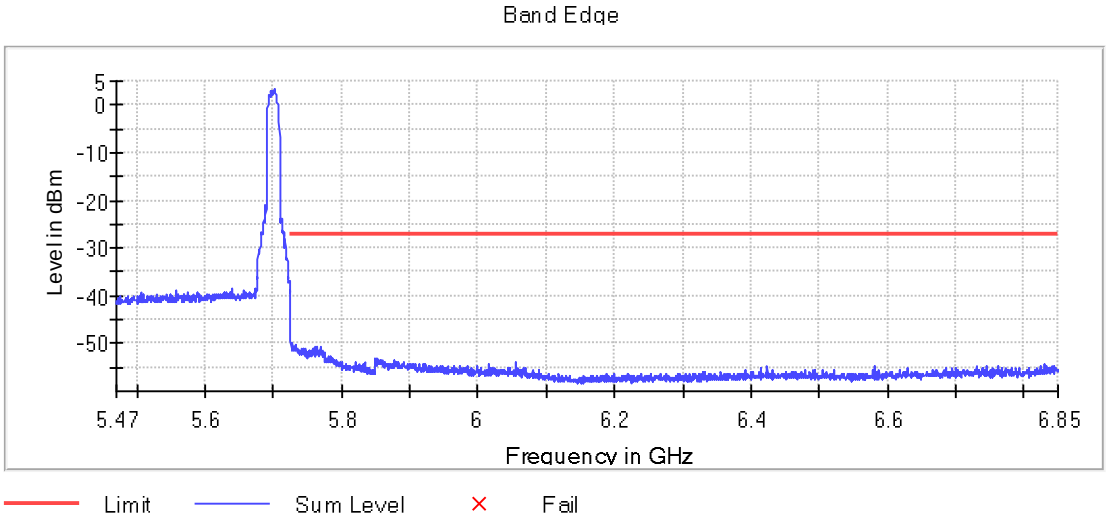
Frequency MHz = 5500.00000, Modulation = 802.11n HT20 (OFDM MCS0), Mode = SISO A, Measurement Point = 1

Images:



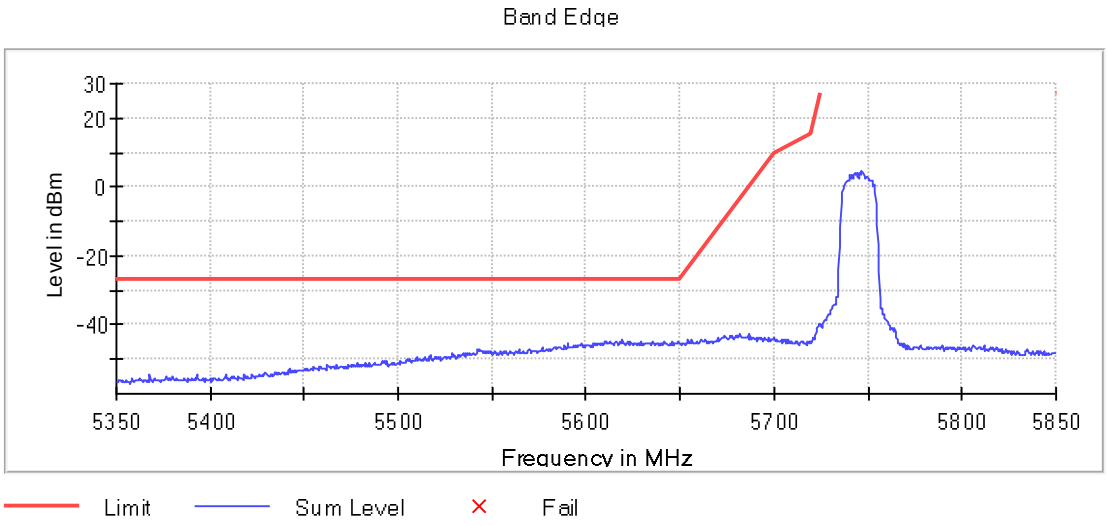
Frequency MHz = 5700.00000, Modulation = 802.11n HT20 (OFDM MCS0), Mode = SISO A, Measurement Point = 1

Images:



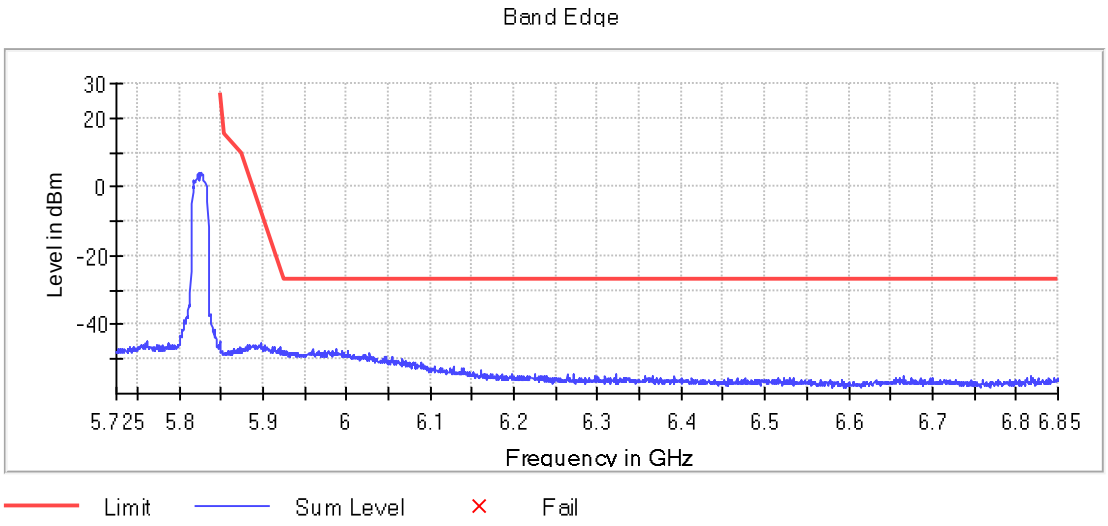
Frequency MHz = 5745.00000, Modulation = 802.11n HT20 (OFDM MCS0), Mode = SISO A, Measurement Point = 1

Images:



Frequency MHz = 5825.00000, Modulation = 802.11n HT20 (OFDM MCS0), Mode = SISO A, Measurement Point = 1

Images:



Modulation: 802.11n HT40 (OFDM MCS0)
Results

U-NII-1

DUT Frequency	Result
5190.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5118.250000	-39.9	12.9	-27.0	PASS
5148.750000	-42.8	15.8	-27.0	PASS
5149.750000	-43.2	16.2	-27.0	PASS
5149.250000	-44.0	17.0	-27.0	PASS
5148.250000	-44.3	17.3	-27.0	PASS
5146.250000	-44.3	17.3	-27.0	PASS
5147.750000	-45.3	18.3	-27.0	PASS
5147.250000	-46.1	19.1	-27.0	PASS
5146.750000	-46.3	19.3	-27.0	PASS
5144.750000	-46.5	19.5	-27.0	PASS
5145.750000	-46.7	19.7	-27.0	PASS
5145.250000	-47.0	20.0	-27.0	PASS
5144.250000	-47.7	20.7	-27.0	PASS
5143.750000	-48.1	21.1	-27.0	PASS
5142.750000	-48.6	21.6	-27.0	PASS

DUT Frequency	Result
5230.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5357.750000	-51.3	24.3	-27.0	PASS
5351.750000	-51.4	24.4	-27.0	PASS
5358.750000	-51.4	24.4	-27.0	PASS
5361.750000	-51.6	24.6	-27.0	PASS
5356.750000	-51.7	24.7	-27.0	PASS
5355.250000	-51.8	24.8	-27.0	PASS
5370.250000	-51.9	24.9	-27.0	PASS
5356.250000	-52.0	25.0	-27.0	PASS
5352.750000	-52.0	25.0	-27.0	PASS
5354.750000	-52.1	25.1	-27.0	PASS
5364.250000	-52.1	25.1	-27.0	PASS
5360.750000	-52.2	25.2	-27.0	PASS
5371.750000	-52.2	25.2	-27.0	PASS
5363.750000	-52.2	25.2	-27.0	PASS
5352.250000	-52.2	25.2	-27.0	PASS

U-NII-2A

DUT Frequency	Result
5270.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5136.250000	-52.9	25.9	-27.0	PASS
5144.250000	-52.9	25.9	-27.0	PASS
5141.750000	-53.0	26.0	-27.0	PASS
5141.250000	-53.1	26.1	-27.0	PASS
5147.250000	-53.2	26.2	-27.0	PASS
5140.250000	-53.3	26.3	-27.0	PASS
5149.250000	-53.3	26.3	-27.0	PASS
5124.750000	-53.3	26.3	-27.0	PASS
5127.750000	-53.3	26.3	-27.0	PASS
5137.750000	-53.4	26.4	-27.0	PASS
5135.750000	-53.4	26.4	-27.0	PASS
5144.750000	-53.4	26.4	-27.0	PASS
5130.250000	-53.5	26.5	-27.0	PASS
5145.250000	-53.5	26.5	-27.0	PASS
5129.750000	-53.5	26.5	-27.0	PASS

DUT Frequency	Result
5310.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5350.250000	-33.0	6.0	-27.0	PASS
5351.250000	-34.0	7.0	-27.0	PASS
5351.750000	-35.3	8.3	-27.0	PASS
5353.750000	-35.7	8.7	-27.0	PASS
5352.250000	-35.7	8.7	-27.0	PASS
5353.250000	-36.9	9.9	-27.0	PASS
5350.750000	-37.1	10.1	-27.0	PASS
5354.750000	-37.2	10.2	-27.0	PASS
5354.250000	-38.5	11.5	-27.0	PASS
5352.750000	-38.8	11.8	-27.0	PASS
5355.250000	-39.0	12.0	-27.0	PASS
5356.750000	-39.5	12.5	-27.0	PASS
5355.750000	-40.0	13.0	-27.0	PASS
5357.250000	-40.0	13.0	-27.0	PASS
5356.250000	-40.4	13.4	-27.0	PASS

U-NII-2C

DUT Frequency	Result
5510.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5469.750000	-38.9	11.9	-27.0	PASS
5468.750000	-38.9	11.9	-27.0	PASS
5469.250000	-39.0	12.0	-27.0	PASS
5468.250000	-39.7	12.7	-27.0	PASS
5466.750000	-40.7	13.7	-27.0	PASS
5466.250000	-41.8	14.8	-27.0	PASS
5467.250000	-41.8	14.8	-27.0	PASS
5467.750000	-42.0	15.0	-27.0	PASS
5465.750000	-42.6	15.6	-27.0	PASS
5463.750000	-42.7	15.7	-27.0	PASS
5464.750000	-43.0	16.0	-27.0	PASS
5465.250000	-43.5	16.5	-27.0	PASS
5463.250000	-43.7	16.7	-27.0	PASS
5464.250000	-43.8	16.8	-27.0	PASS
5461.750000	-44.0	17.0	-27.0	PASS

DUT Frequency	Result
5670.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5726.250000	-49.7	22.7	-27.0	PASS
5750.250000	-49.9	22.9	-27.0	PASS
5726.750000	-50.1	23.1	-27.0	PASS
5725.750000	-50.3	23.3	-27.0	PASS
5725.250000	-50.5	23.5	-27.0	PASS
5746.250000	-50.5	23.5	-27.0	PASS
5745.250000	-50.6	23.6	-27.0	PASS
5741.750000	-50.7	23.7	-27.0	PASS
5729.250000	-50.7	23.7	-27.0	PASS
5739.750000	-50.8	23.8	-27.0	PASS
5728.250000	-50.8	23.8	-27.0	PASS
5731.750000	-50.9	23.9	-27.0	PASS
5730.250000	-50.9	23.9	-27.0	PASS
5737.750000	-50.9	23.9	-27.0	PASS
5747.250000	-51.0	24.0	-27.0	PASS

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DUT Frequency	Result
5755.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5617.750000	-45.2	18.2	-27.0	PASS
5631.750000	-45.5	18.5	-27.0	PASS
5620.750000	-45.5	18.5	-27.0	PASS
5617.250000	-45.6	18.6	-27.0	PASS
5639.250000	-45.6	18.6	-27.0	PASS
5627.250000	-45.6	18.6	-27.0	PASS
5602.250000	-45.7	18.7	-27.0	PASS
5618.250000	-45.7	18.7	-27.0	PASS
5606.750000	-45.8	18.8	-27.0	PASS
5618.750000	-45.8	18.8	-27.0	PASS
5621.250000	-45.9	18.9	-27.0	PASS
5615.250000	-45.9	18.9	-27.0	PASS
5622.250000	-46.0	19.0	-27.0	PASS
5603.750000	-46.0	19.0	-27.0	PASS
5620.250000	-46.0	19.0	-27.0	PASS

DUT Frequency	Result
5795.000000	PASS

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5976.750000	-48.1	21.1	-27.0	PASS
5979.250000	-48.1	21.1	-27.0	PASS
5984.750000	-48.3	21.3	-27.0	PASS
5992.250000	-48.3	21.3	-27.0	PASS
5954.250000	-48.4	21.4	-27.0	PASS
5988.750000	-48.4	21.4	-27.0	PASS
5995.250000	-48.6	21.6	-27.0	PASS
5978.250000	-48.6	21.6	-27.0	PASS
5985.250000	-48.6	21.6	-27.0	PASS
5989.750000	-48.6	21.6	-27.0	PASS
5993.250000	-48.6	21.6	-27.0	PASS
5932.750000	-48.6	21.6	-27.0	PASS
5987.250000	-48.6	21.6	-27.0	PASS
5925.750000	-48.6	21.6	-27.0	PASS
5987.750000	-48.7	21.7	-27.0	PASS

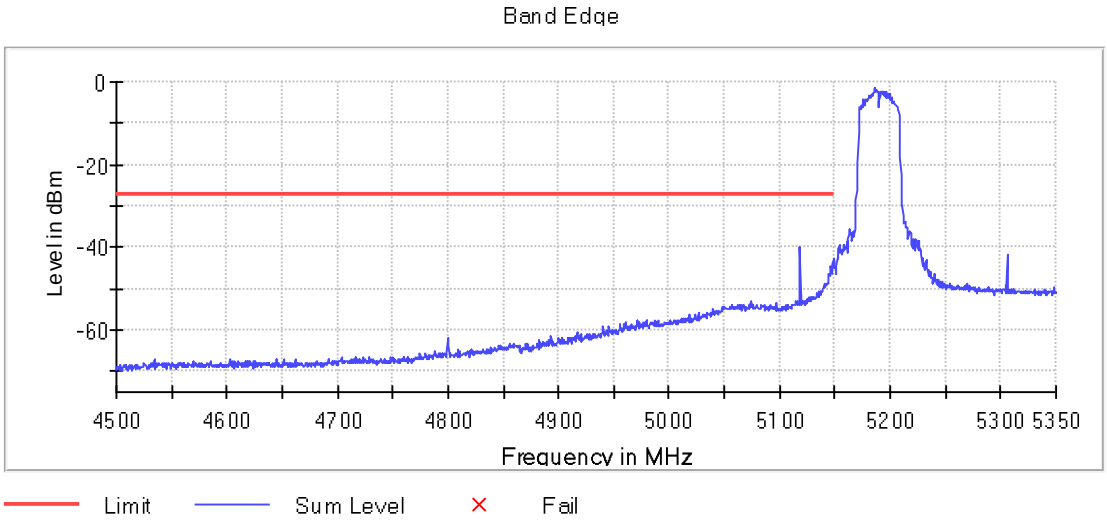
Verdict

Pass

Attachments

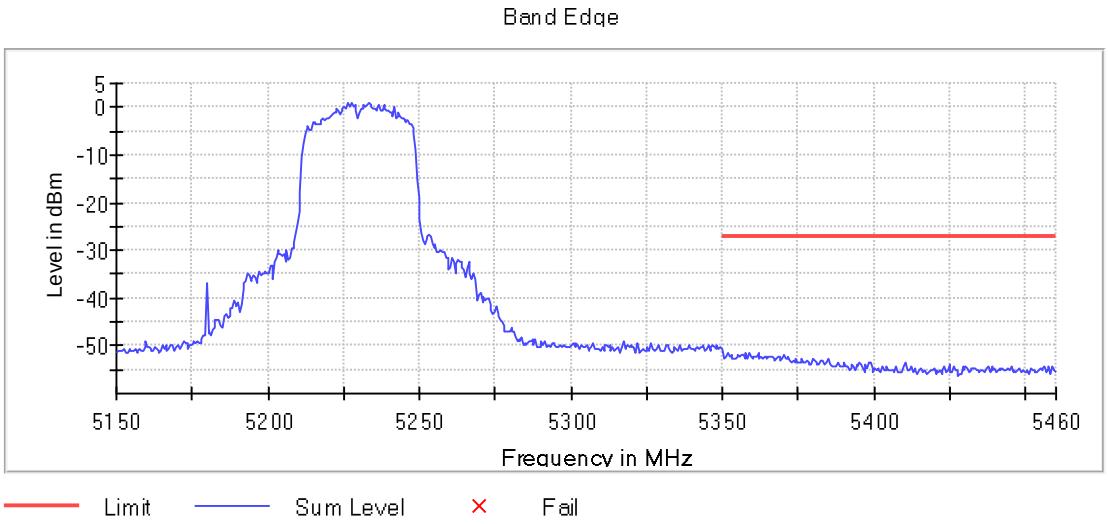
Frequency MHz = 5190.00000, Modulation = 802.11n HT40 (OFDM MCS0), Mode = SISO A, Measurement Point = 1

Images:



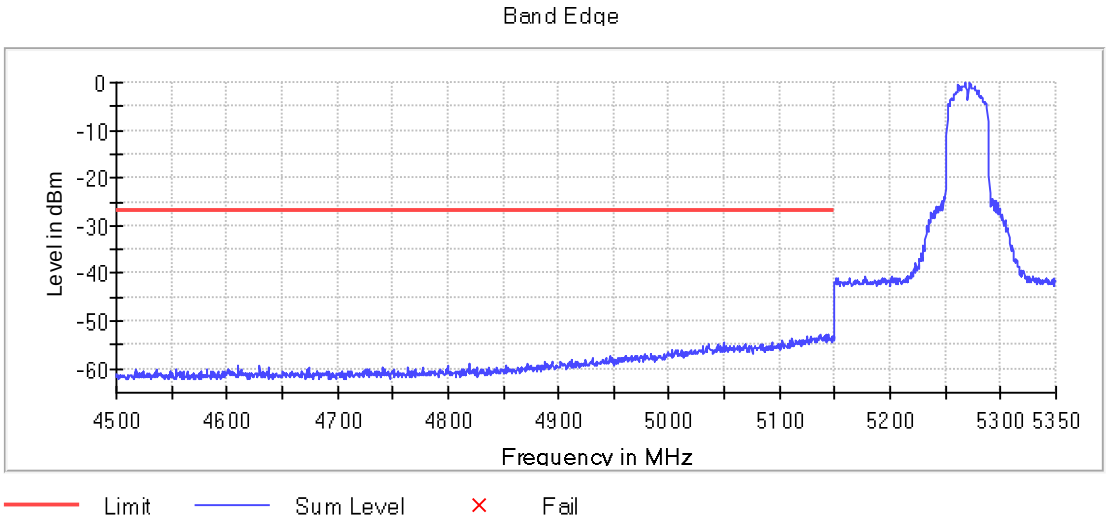
Frequency MHz = 5230.00000, Modulation = 802.11n HT40 (OFDM MCS0), Mode = SISO A, Measurement Point = 1

Images:



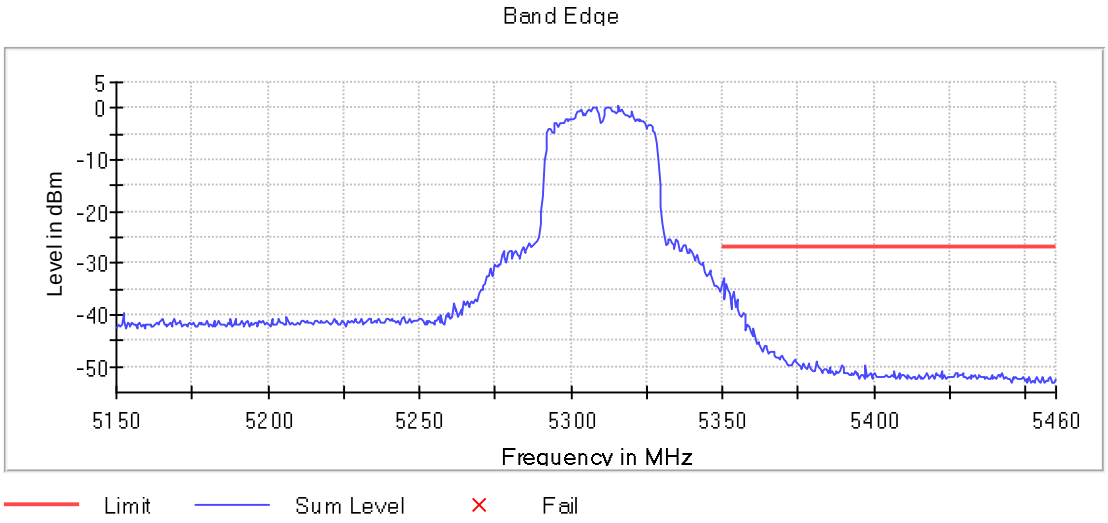
Frequency MHz = 5270.00000, Modulation = 802.11n HT40 (OFDM MCS0), Mode = SISO A, Measurement Point = 1

Images:



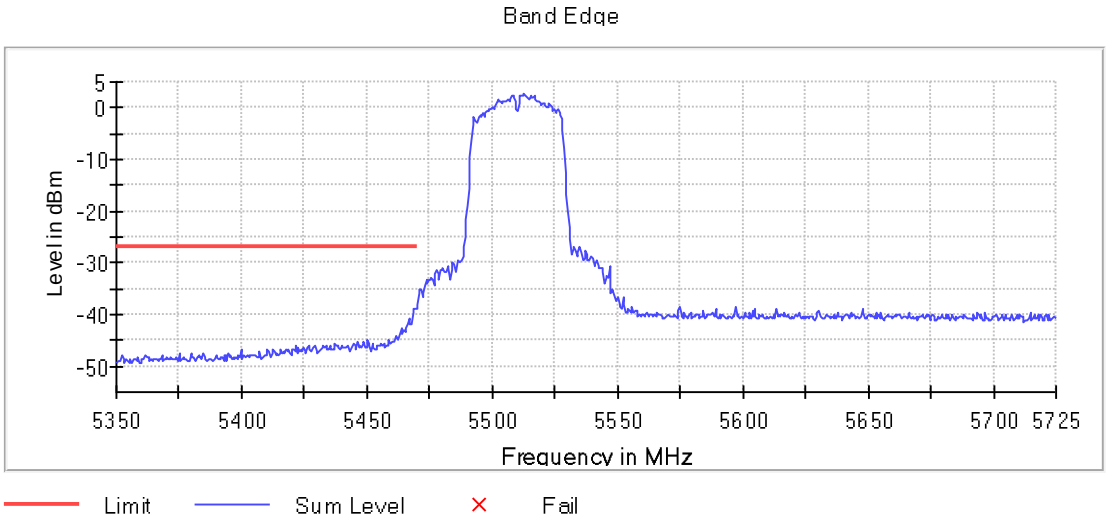
Frequency MHz = 5310.00000, Modulation = 802.11n HT40 (OFDM MCS0), Mode = SISO A, Measurement Point = 1

Images:



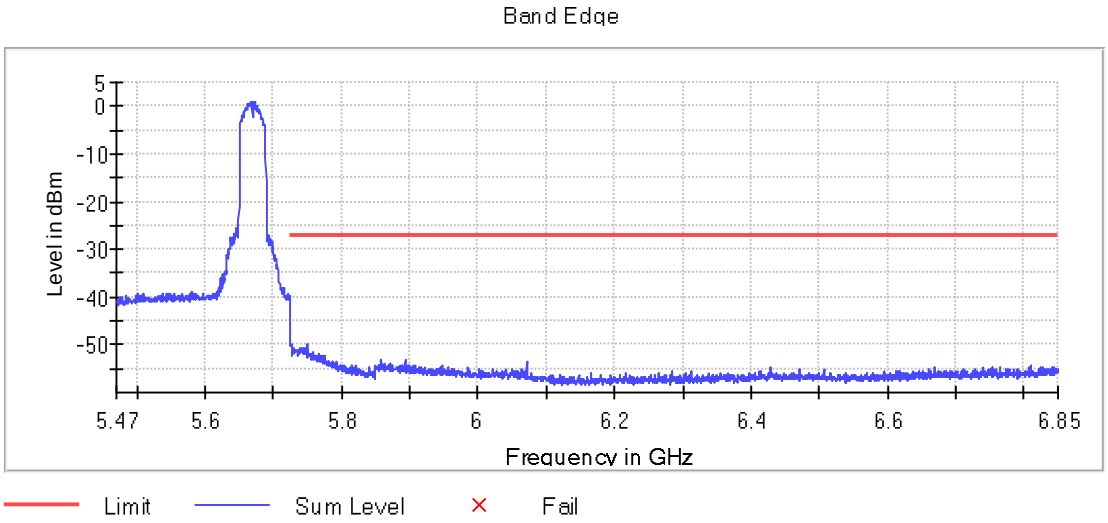
Frequency MHz = 5510.00000, Modulation = 802.11n HT40 (OFDM MCS0), Mode = SISO A, Measurement Point = 1

Images:



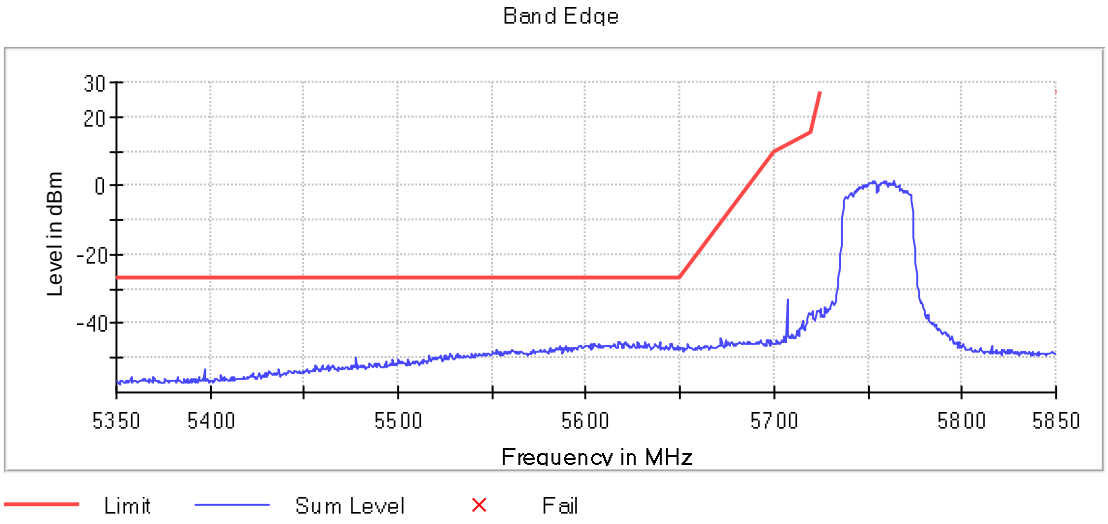
Frequency MHz = 5670.00000, Modulation = 802.11n HT40 (OFDM MCS0), Mode = SISO A, Measurement Point = 1

Images:



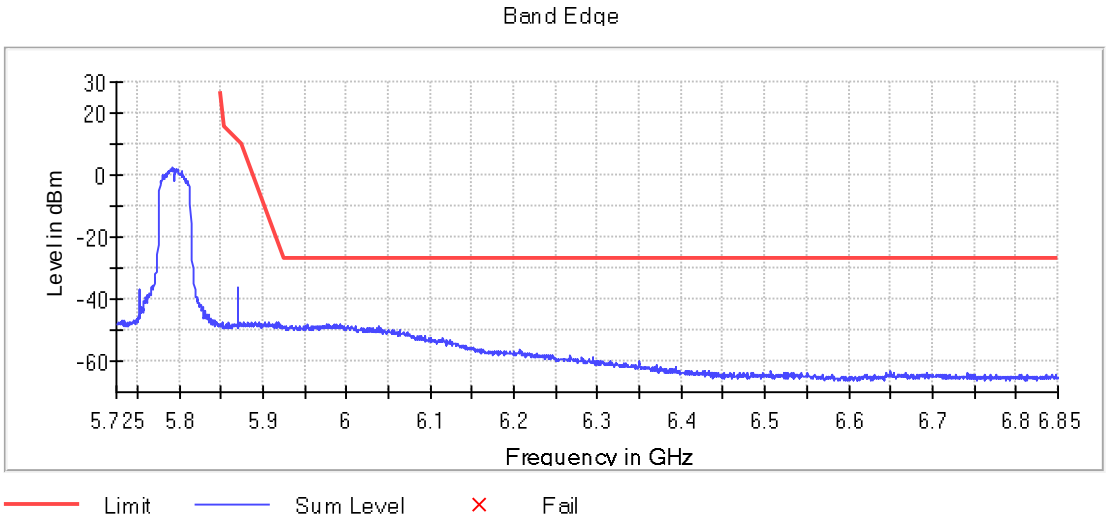
Frequency MHz = 5755.00000, Modulation = 802.11n HT40 (OFDM MCS0), Mode = SISO A, Measurement Point = 1

Images:



Frequency MHz = 5795.00000, Modulation = 802.11n HT40 (OFDM MCS0), Mode = SISO A, Measurement Point = 1

Images:



FCC 15.407 (e) / RSS-247 6.2.4.1 6 dB Emission Bandwidth

Limits

Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

RSS-247: For equipment operating in the band 5725-5850 MHz, the minimum 6 dB bandwidth shall be at least 500 kHz.

Modulation: 802.11a (OFDM 6 Mbit/s)

Results

Freq (MHz)	Emission Bandwidth (MHz)
5745.00000	15.200
5785.00000	15.450
5825.00000	15.500

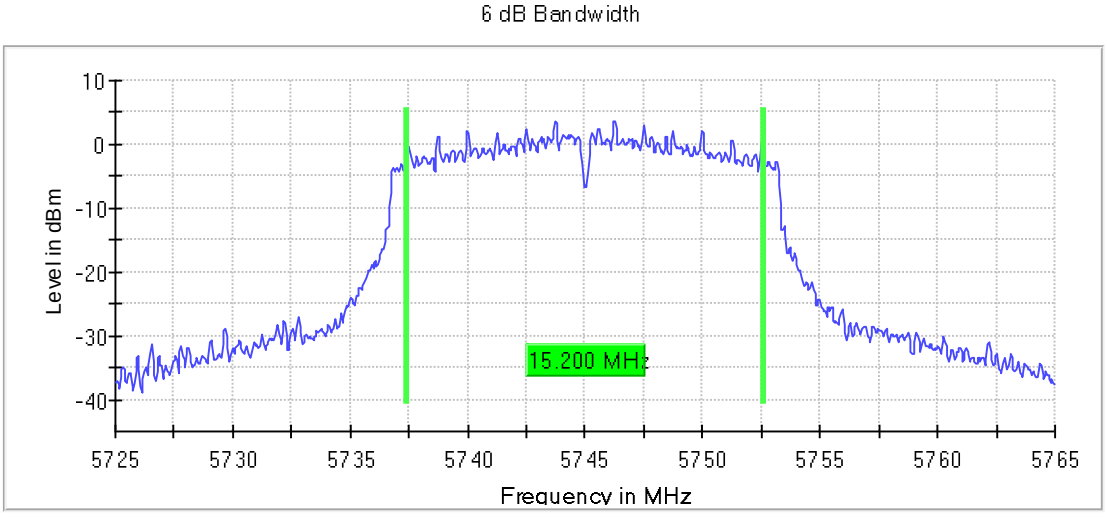
Verdict

Pass

Attachments

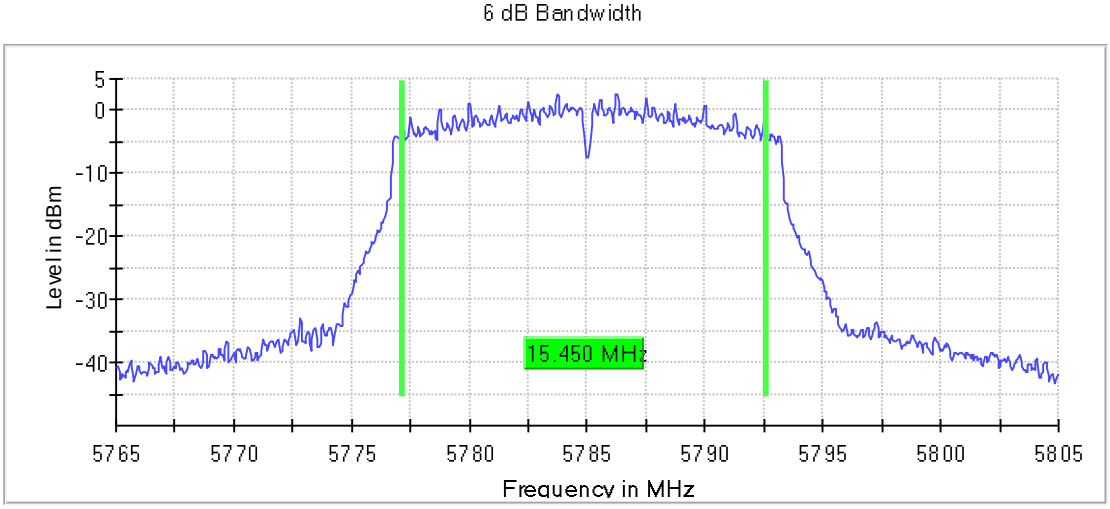
Frequency MHz = 5745.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



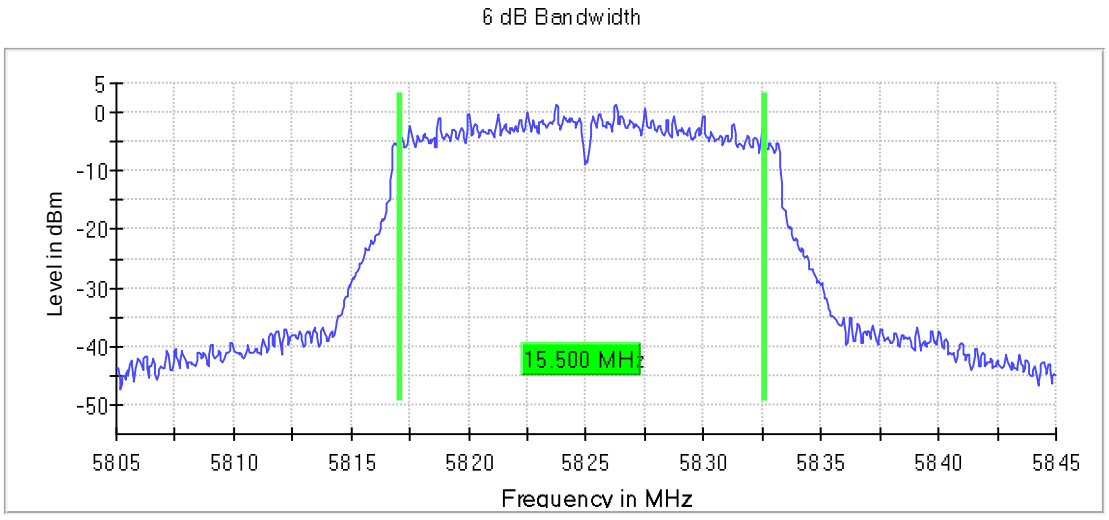
Frequency MHz = 5785.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



Frequency MHz = 5825.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Number of Transmission Chains = 1

Images:



Tables:
Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Start Frequency	5.80500 GHz	5.80500 GHz
Stop Frequency	5.84500 GHz	5.84500 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	800	~ 800
Sweeptime	56.836 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 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
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	71 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.06 dB	0.30 dB

Modulation: 802.11n HT20 (OFDM MCS0)
Results

Freq (MHz)	Emission Bandwidth (MHz)
5745.00000	15.200
5785.00000	15.150
5825.00000	15.150

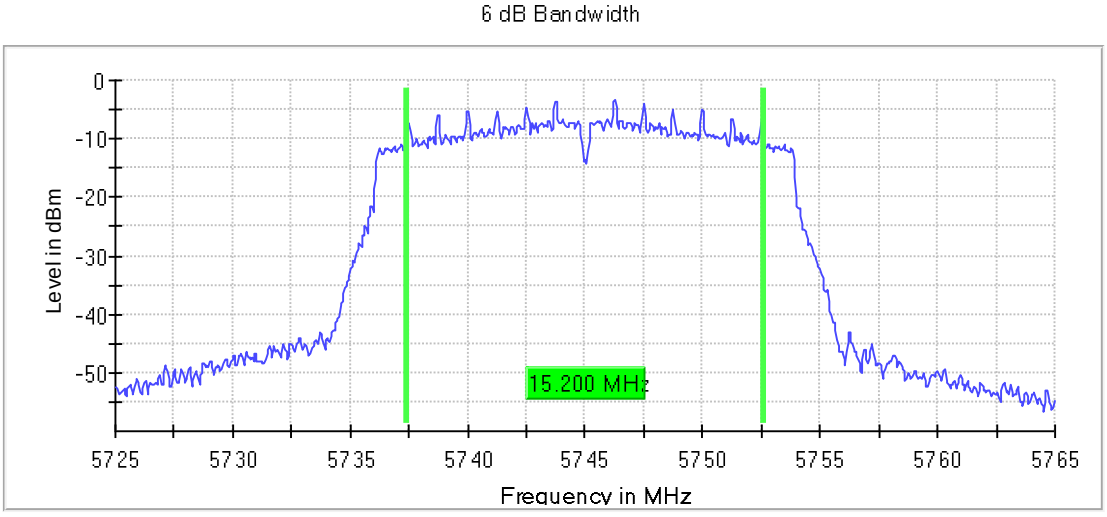
Verdict

Pass

Attachments

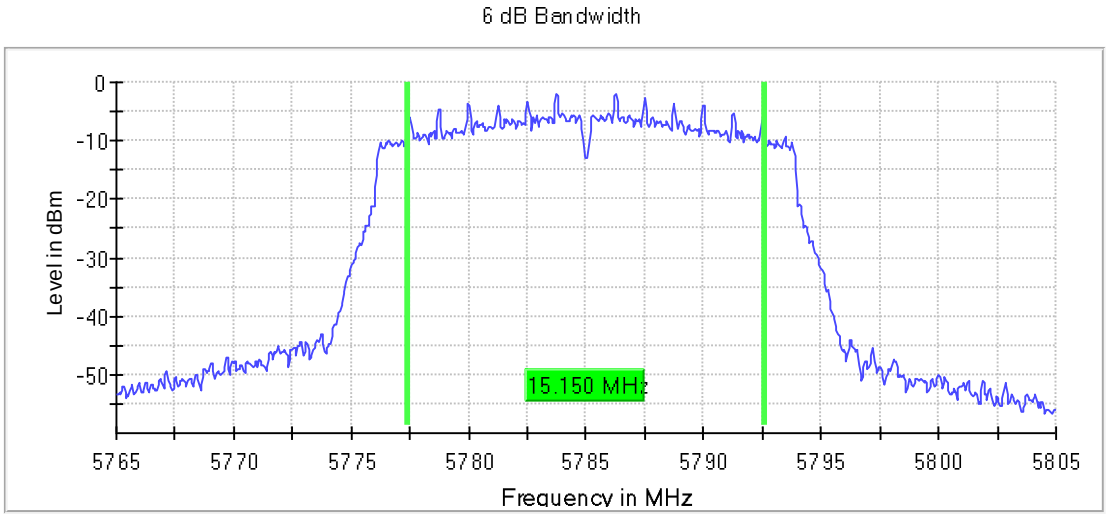
Frequency MHz = 5745.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



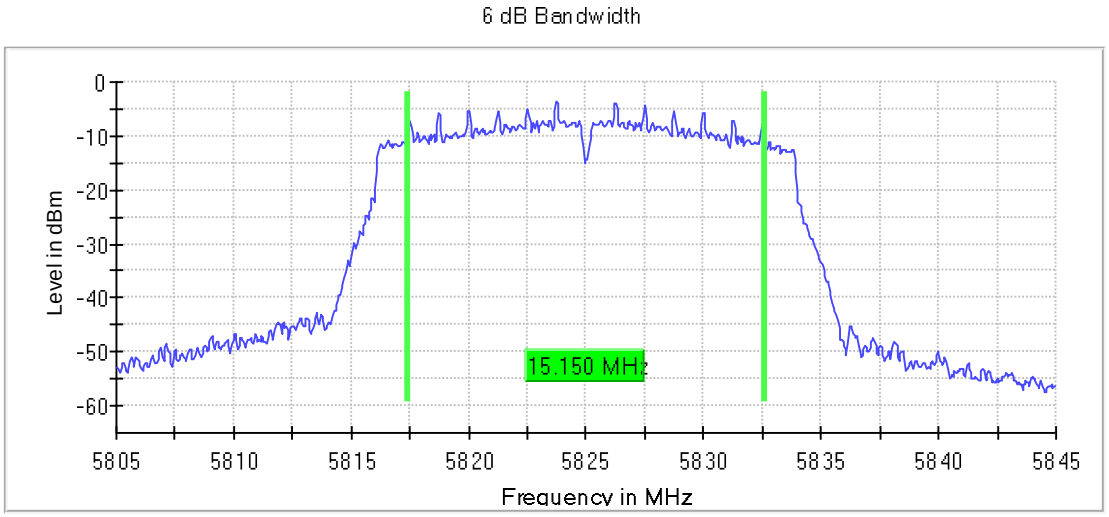
Frequency MHz = 5785.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



Frequency MHz = 5825.00000, Modulation = 802.11n HT20 (OFDM MCS0), Number of Transmission Chains = 1

Images:



Tables:
Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Start Frequency	5.80500 GHz	5.80500 GHz
Stop Frequency	5.84500 GHz	5.84500 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	800	~ 800
Sweeptime	56.836 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 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
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	76 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.03 dB	0.30 dB

Modulation: 802.11n HT40 (OFDM MCS0)
Results

Freq (MHz)	Emission Bandwidth (MHz)
5755.00000	35.200
5795.00000	35.150

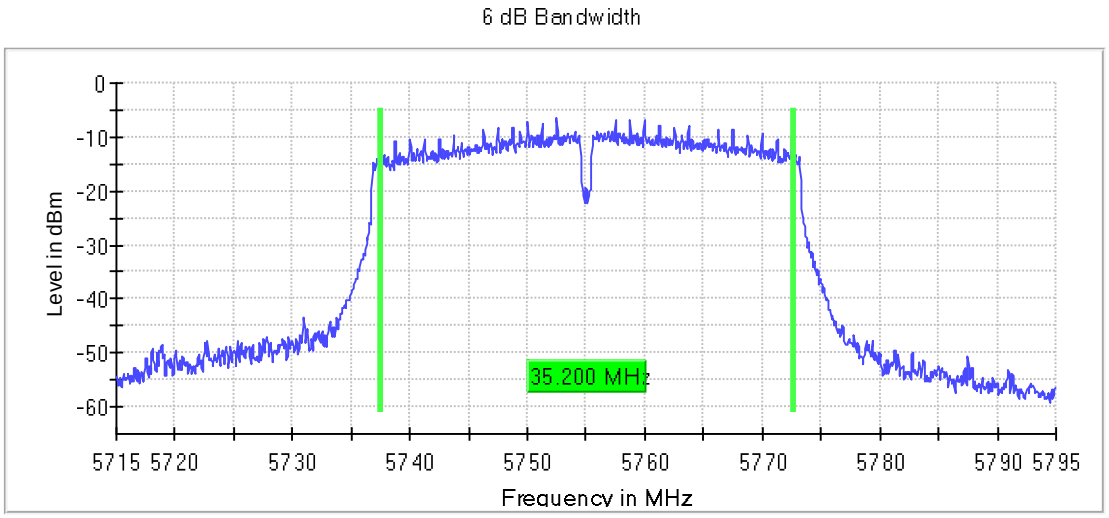
Verdict

Pass

Attachments

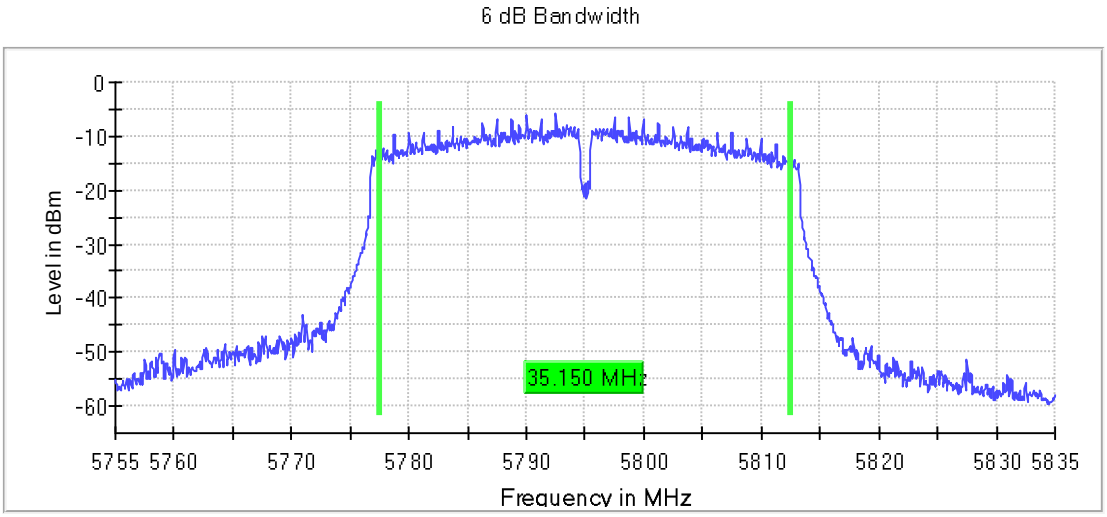
Frequency MHz = 5755.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:



Frequency MHz = 5795.00000, Modulation = 802.11n HT40 (OFDM MCS0), Number of Transmission Chains = 1

Images:



Tables:
Spectrum Analyzer Parameters

Setting	Instrument Value	Target Value
Start Frequency	5.75500 GHz	5.75500 GHz
Stop Frequency	5.83500 GHz	5.83500 GHz
Span	80.000 MHz	80.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	1600	~ 1600
Sweeptime	94.727 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 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
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	108 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.00 dB	0.30 dB

FCC 15.407 (b), 15.205 & 15.209 / RSS-Gen 8.9 & 8.10 Undesirable radiated emissions

Limits

Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)):

Frequency Range (MHz)	Field strength (µV/m)	Field strength (dBµV/m)	Measurement distance (m)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	300
1.705 - 30.0	30	-	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
960 - 40000	500	54	3

The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

For average radiated emission measurements above 1000 MHz, there is also a limit corresponding to 20 dB above the indicated values in the table is specified when measuring with peak detector function.

UNII-1:

Modulation: 802.11a (OFDM 6 Mbit/s)

Frequency range 30 MHz – 1000 MHz

The spurious emissions below 1 GHz do not depend on the operating channel and modulation selected in the EUT.

Results

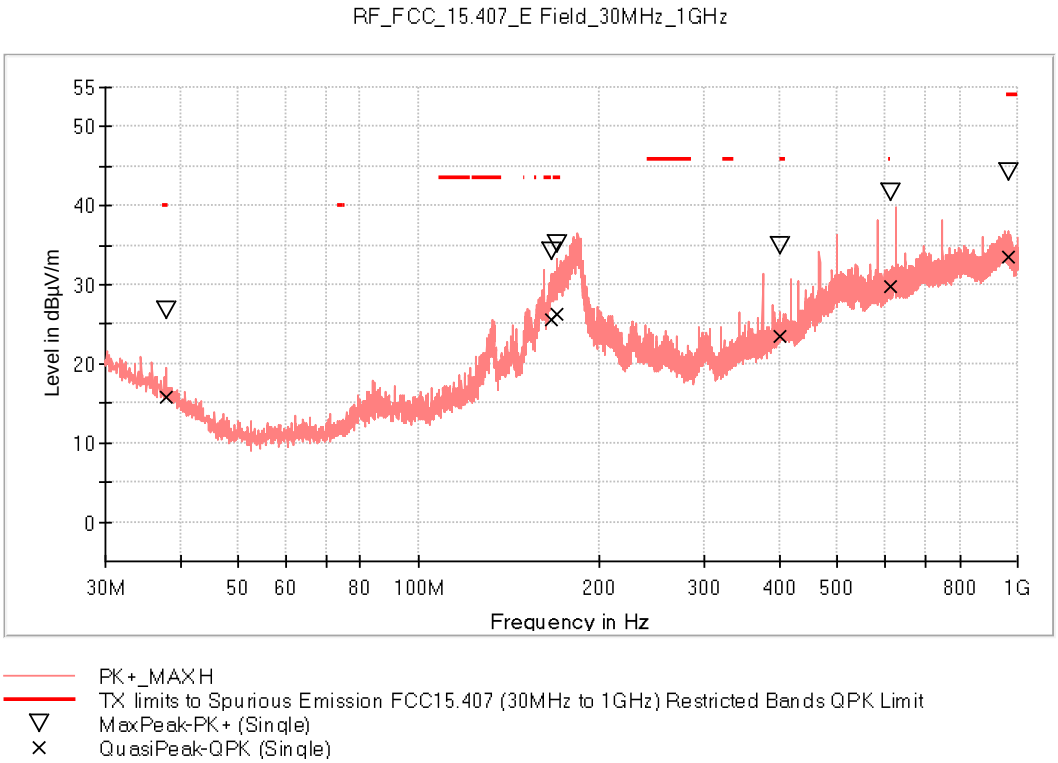
Verdict

Pass

Attachments

Frequency Range GHz = [0.03, 1], Frequency MHz = 5180.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Measurement Point = 1

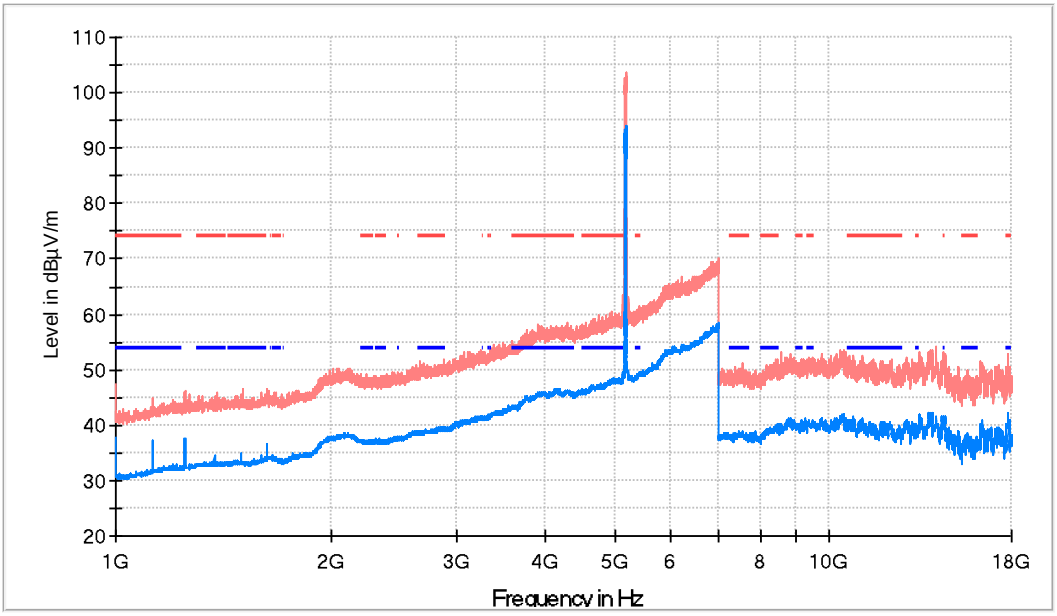
Images:



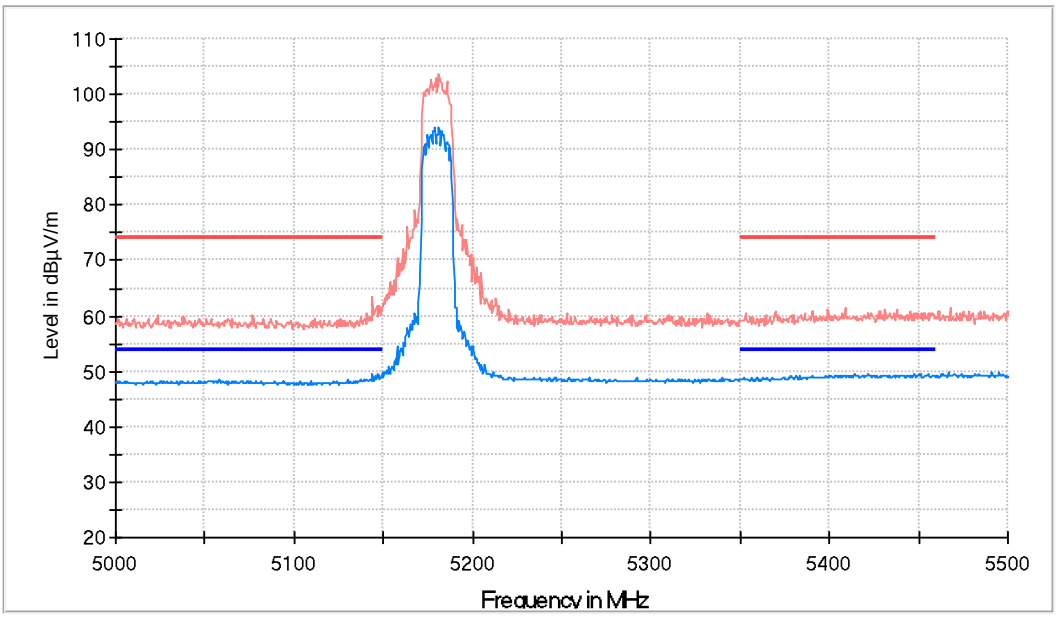
Frequency (MHz)	MaxPeak (dBµV/m)	QuasiPeak (dBµV/m)	Pol	`Margin - QPK (dB)	Limit - QPK (dBµV/m)
37.954000	26.8	15.8	V	24.2	40.0
167.158000	34.2	25.7	V	17.8	43.5
170.407500	35.1	26.3	V	17.3	43.5
400.152000	34.9	23.4	H	22.6	46.0
611.903000	41.8	29.9	V	16.1	46.0
963.382500	44.2	33.6	V	20.4	54.0

Frequency Range GHz = [1, 18], Frequency MHz = 5180.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Measurement Point = 1

Images:

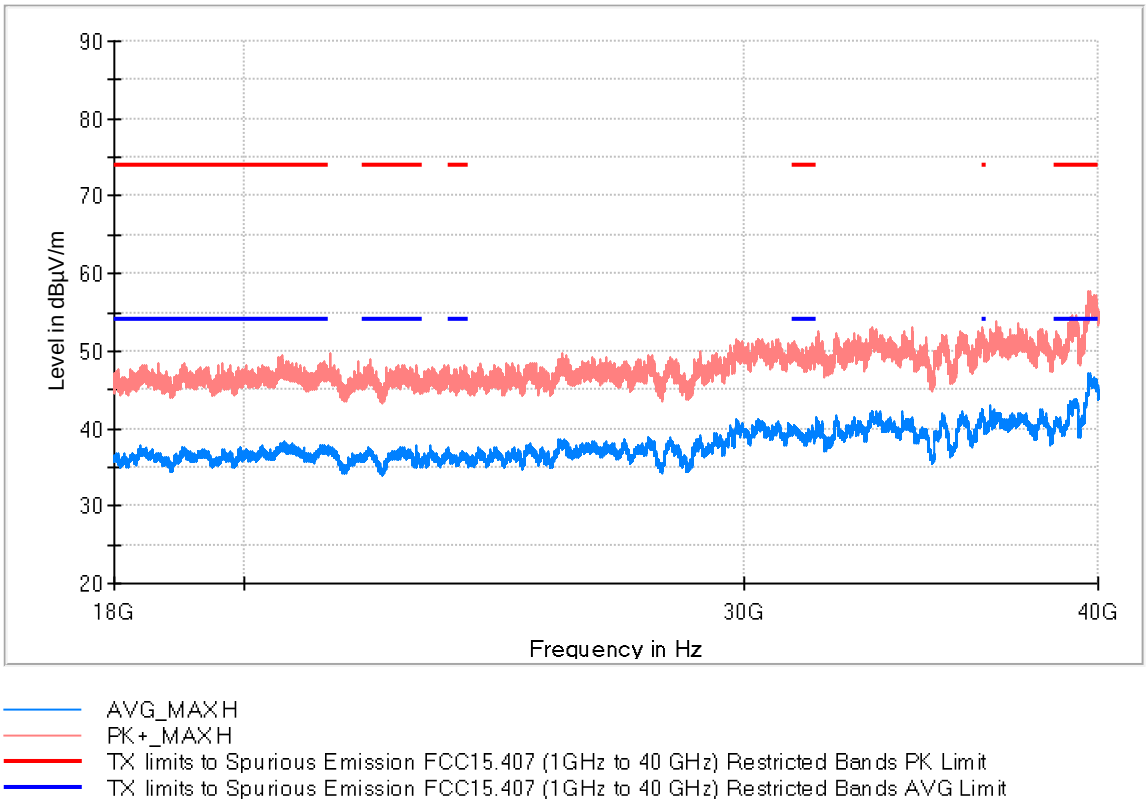


Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
1125.000000	44.5	36.6	H	17.4	54.0	
5149.500000	62.1	49.7	H	4.3	54.0	
5181.000000	103.8	94.1	H	---	---	Fundamental


110
100
90
80
70
60
50
40
30
20
Level in dBµV/m
5000
5100
5200
5300
5400
5500
Frequency in MHz
PK+_MAXH
TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit
AVG_MAXH

Frequency Range GHz = [18, 40], Frequency MHz = 5180.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Measurement Point = 1

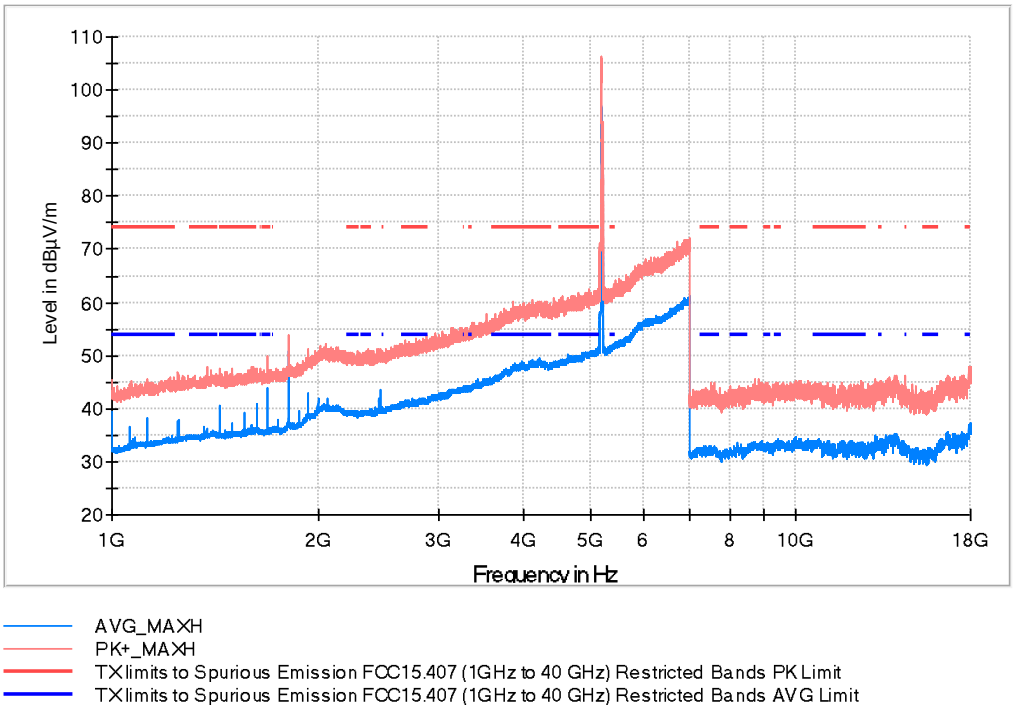
Images:



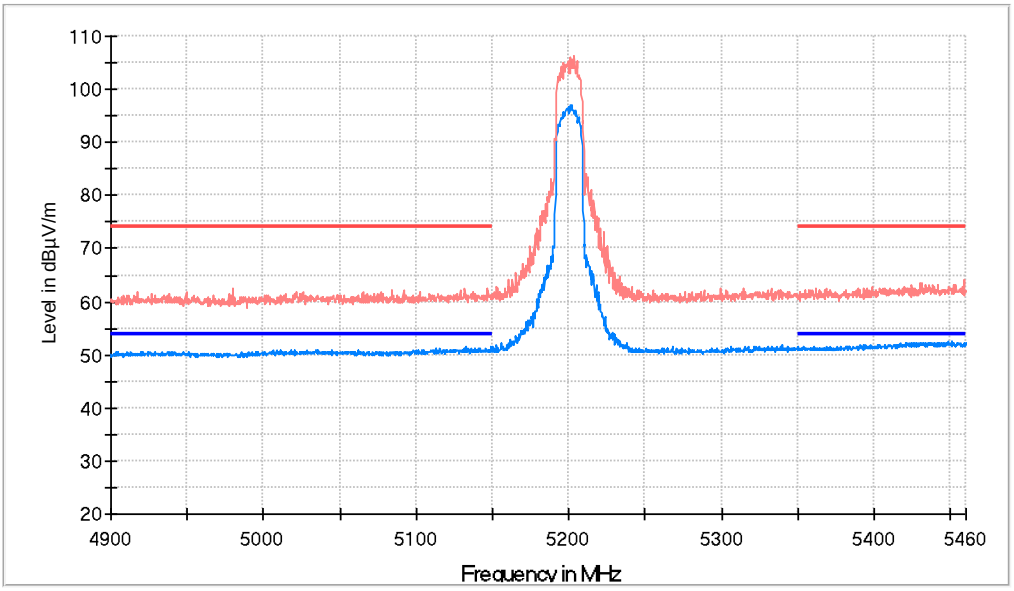
Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)
39731.187500	55.9	47.2	H	6.8	54.0

Frequency Range GHz = [1, 18], Frequency MHz = 5200.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Measurement Point = 1

Images:



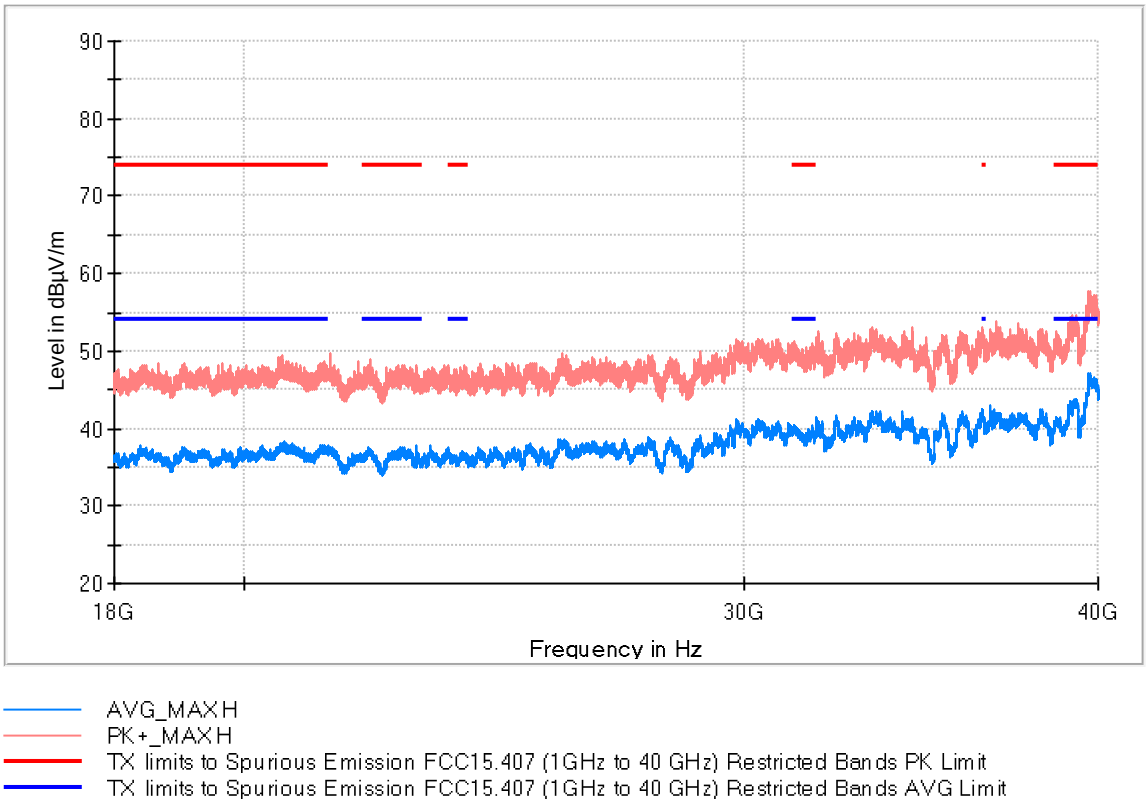
Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
1124.909091	45.4	38.1	H	15.9	54.0	
1437.454546	47.3	40.5	V	13.5	54.0	
1687.272727	49.5	44.0	H	10.0	54.0	
5203.545455	106.2	95.5	H	---	---	Fundamental



AVG_MAXH
PK+_MAXH
TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency Range GHz = [18, 40], Frequency MHz = 5200.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Measurement Point = 1

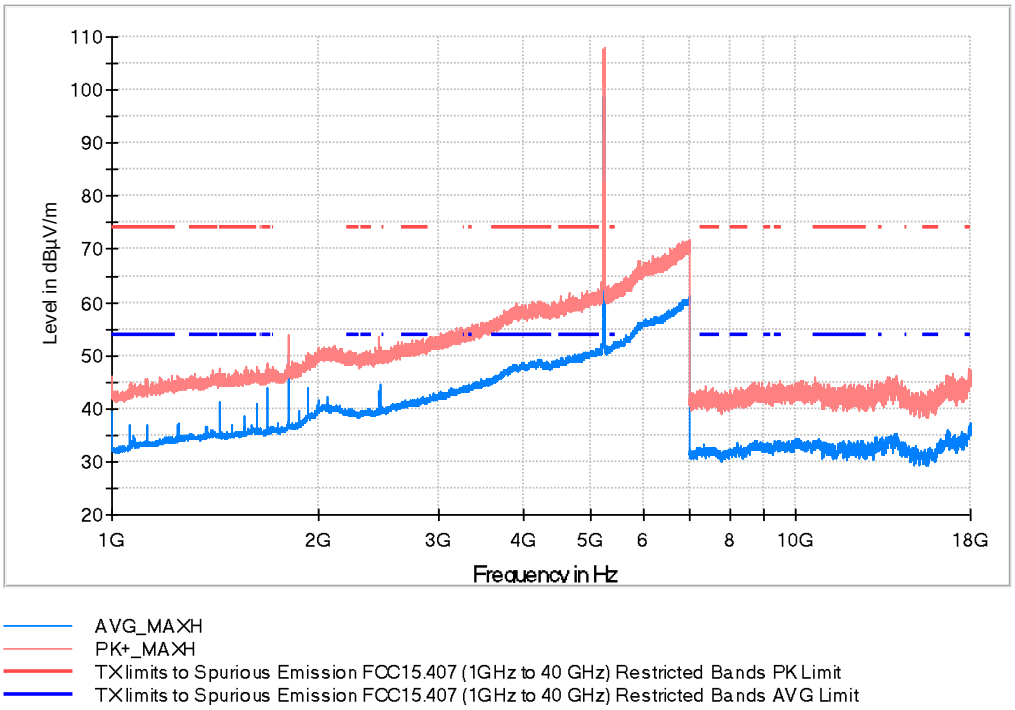
Images:



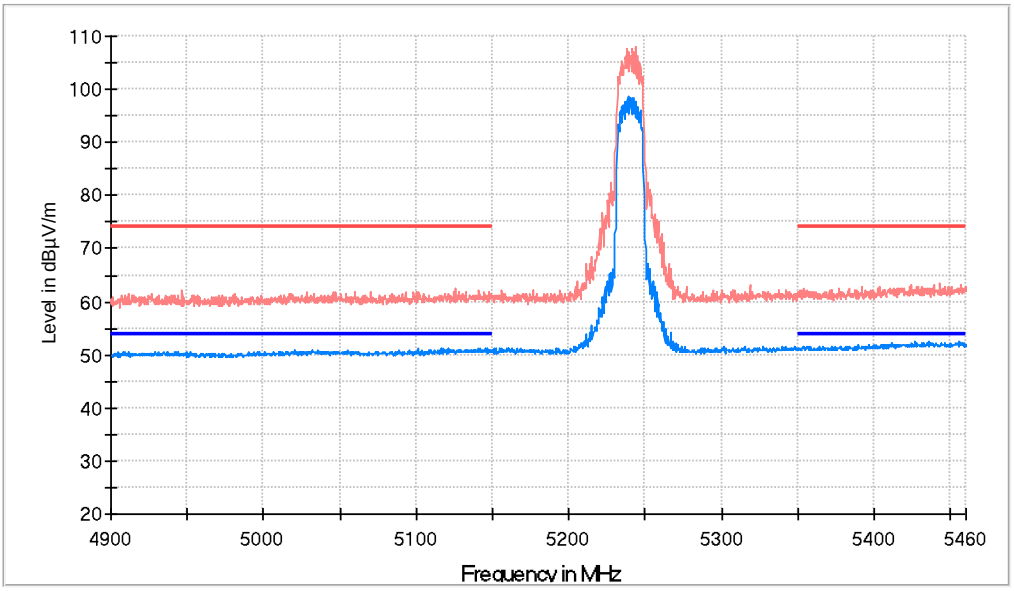
Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)
39731.187500	55.9	47.2	H	6.8	54.0

Frequency Range GHz = [1, 18], Frequency MHz = 5240.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Measurement Point = 1

Images:



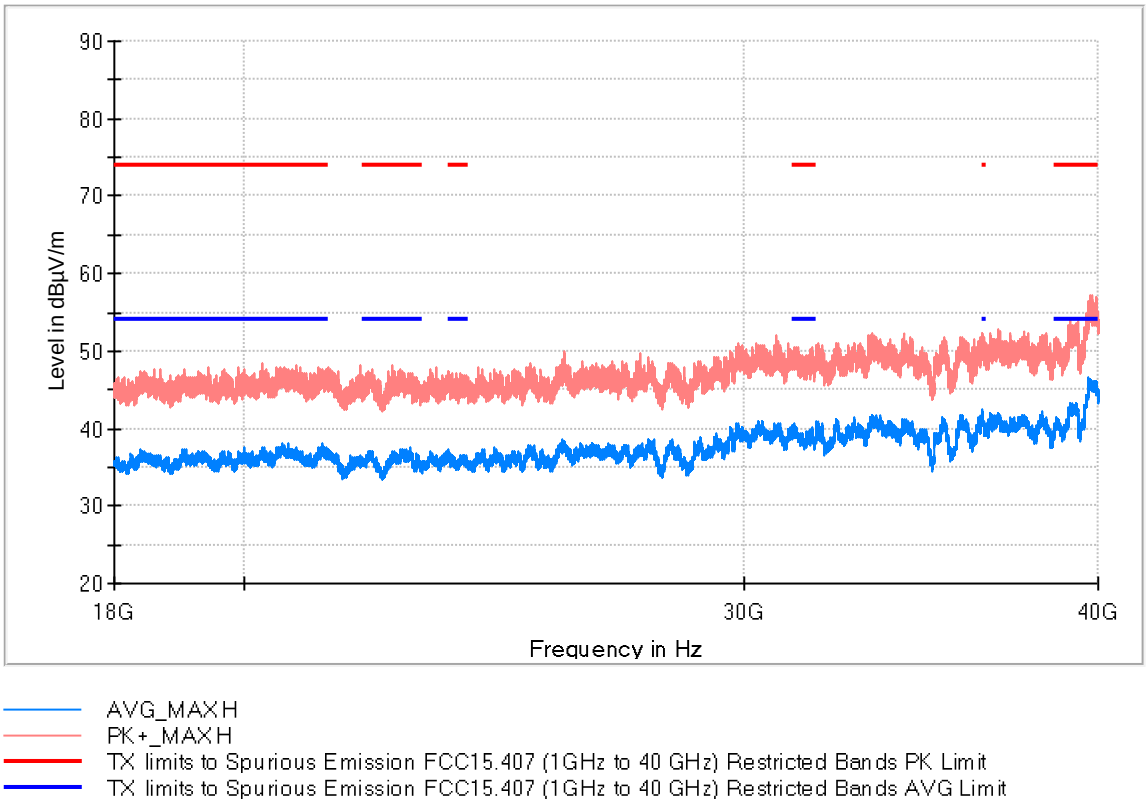
Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
1062.454546	44.4	37.0	V	17.0	54.0	
1437.454546	46.9	41.3	V	12.7	54.0	
1687.272727	48.4	43.9	H	10.1	54.0	
5243.363636	108.1	97.6	H	---	---	Fundamental



AVG_MAXH
PK+_MAXH
TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency Range GHz = [18, 40], Frequency MHz = 5240.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Measurement Point = 1

Images:



Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)
39703.687500	56.4	46.5	H	7.5	54.0

Modulation: 802.11n HT40 (OFDM MCS0)
Results

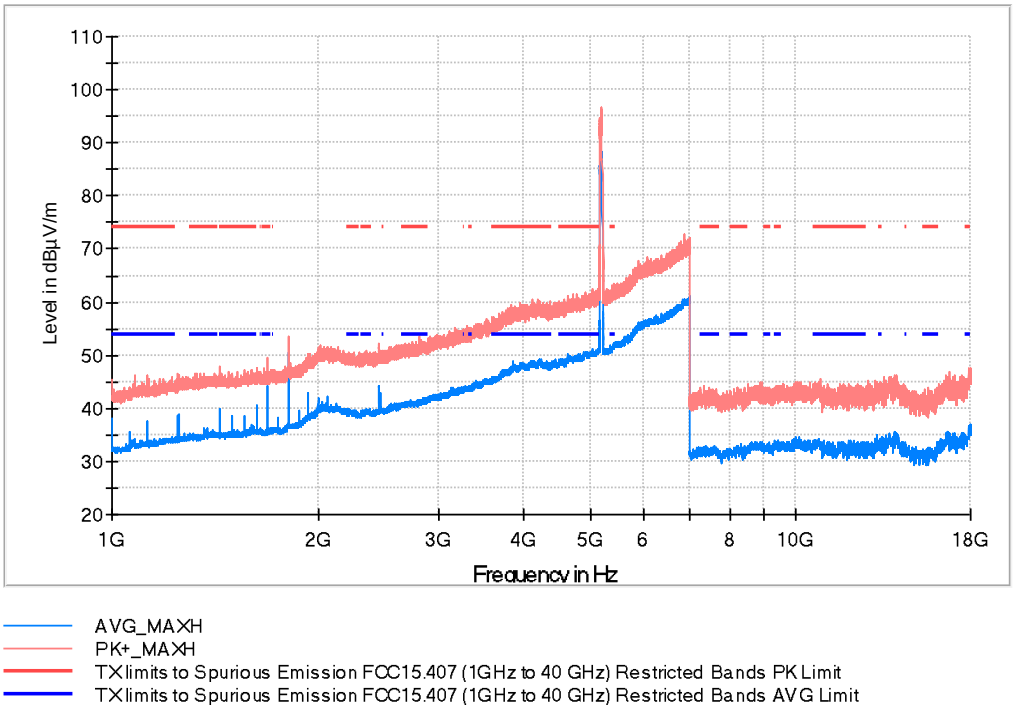
Verdict

Pass

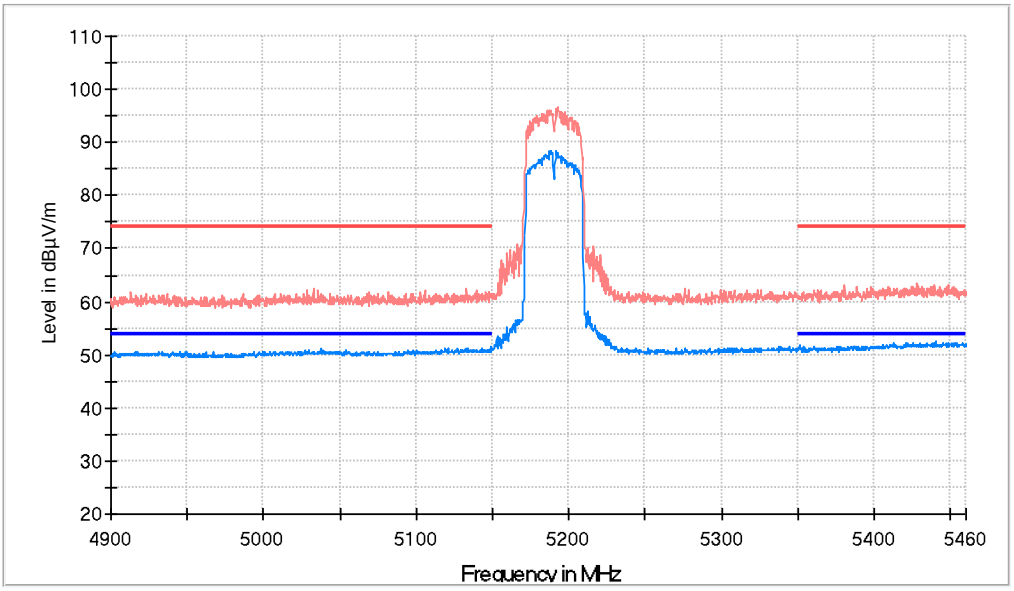
Attachments

Frequency Range GHz = [1, 18], Frequency MHz = 5190.00000, Modulation = 802.11n HT40 (OFDM MCS0), Measurement Point = 1

Images:



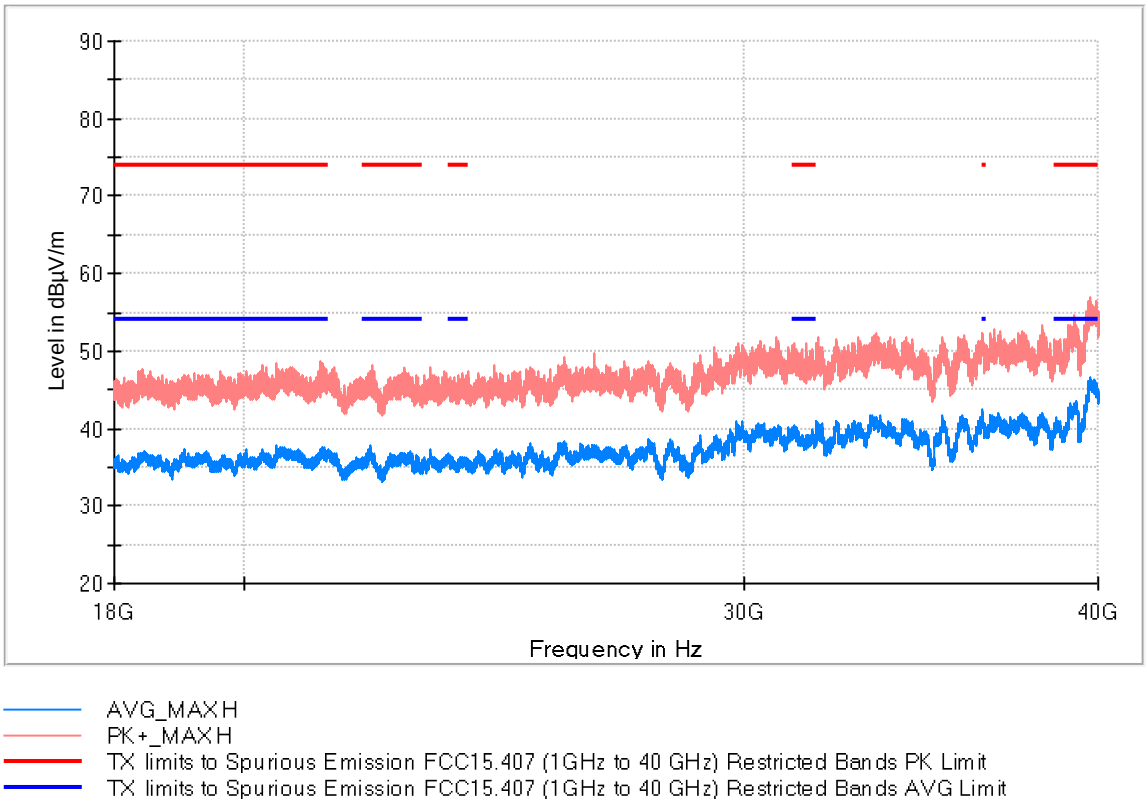
Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
1124.909091	45.3	37.4	H	16.6	54.0	
1625.090909	46.2	40.7	H	13.3	54.0	
1687.545455	49.5	43.9	V	10.1	54.0	
5187.454546	95.5	88.4	H	---	---	Fundamental



AVG_MAXH
PK+_MAXH
TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency Range GHz = [18, 40], Frequency MHz = 5190.00000, Modulation = 802.11n HT40 (OFDM MCS0), Measurement Point = 1

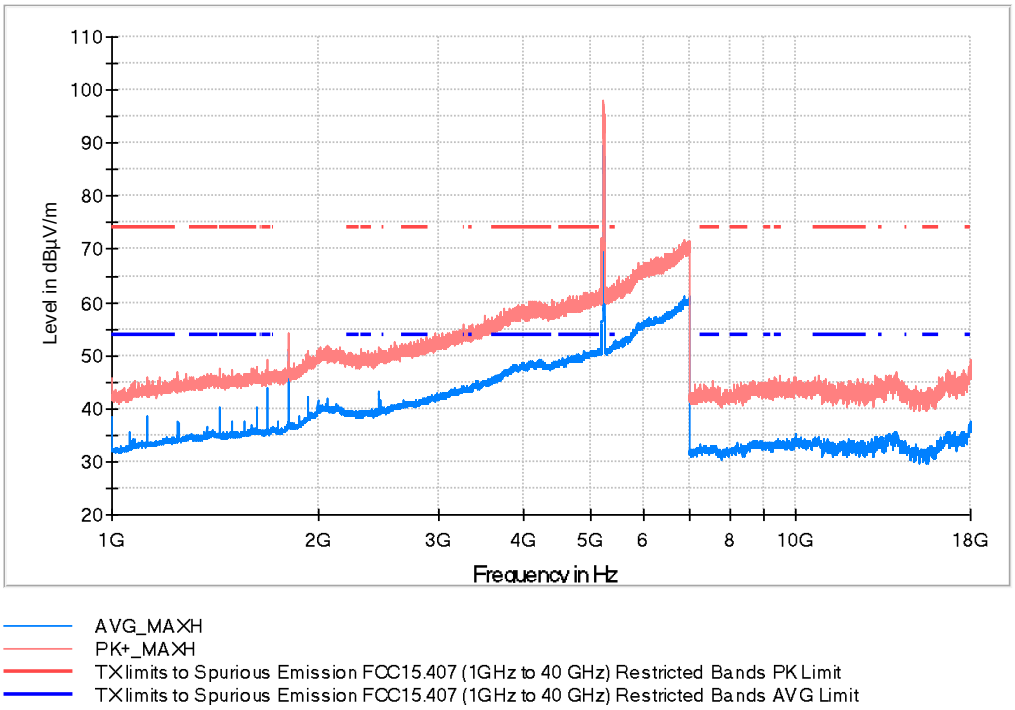
Images:



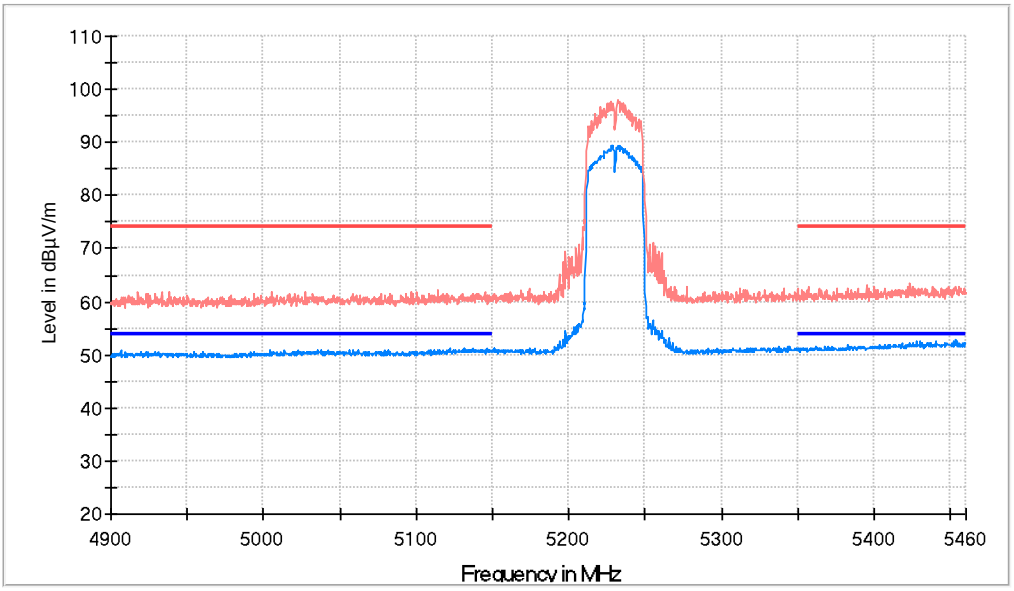
Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)
39718.812500	55.5	46.5	V	7.5	54.0

Frequency Range GHz = [1, 18], Frequency MHz = 5230.00000, Modulation = 802.11n HT40 (OFDM MCS0), Measurement Point = 1

Images:



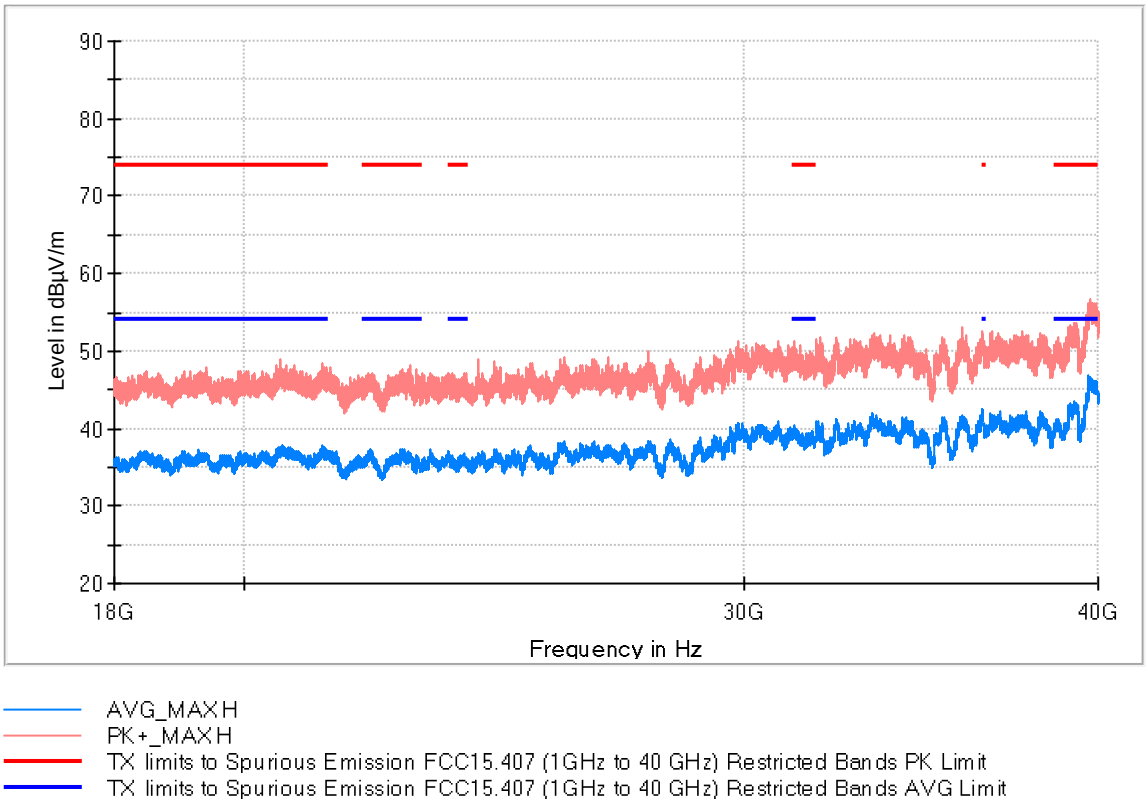
Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
1124.909091	45.0	38.5	V	15.5	54.0	
1437.181818	47.5	40.2	V	13.8	54.0	
1687.272727	48.9	43.9	H	10.1	54.0	
5232.454546	97.4	89.3	H	---	---	Fundamental



AVG_MAXH
PK+_MAXH
TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency Range GHz = [18, 40], Frequency MHz = 5230.00000, Modulation = 802.11n HT40 (OFDM MCS0), Measurement Point = 1

Images:



Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)
39703.687500	54.7	46.8	V	7.2	54.0

UNII-2A:

Modulation: 802.11a (OFDM 6 Mbit/s)
Results

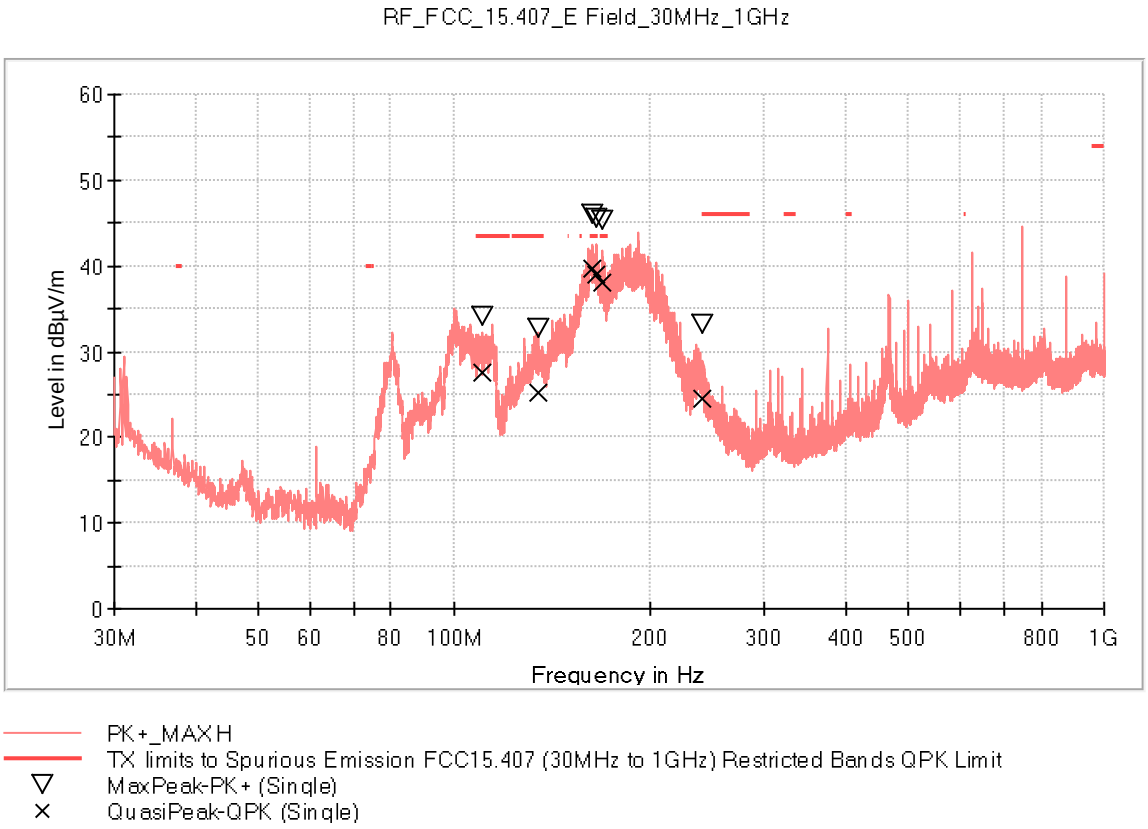
Verdict

Pass

Attachments

Frequency Range GHz = [0.03, 1], Frequency MHz = 5280.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Measurement Point = 1

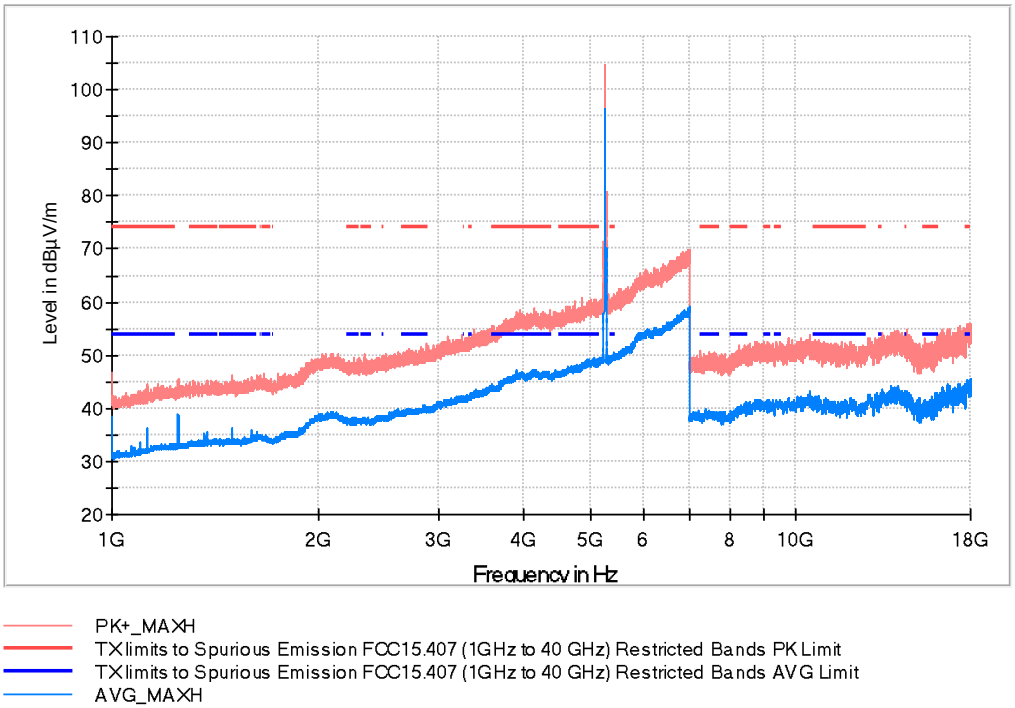
Images:



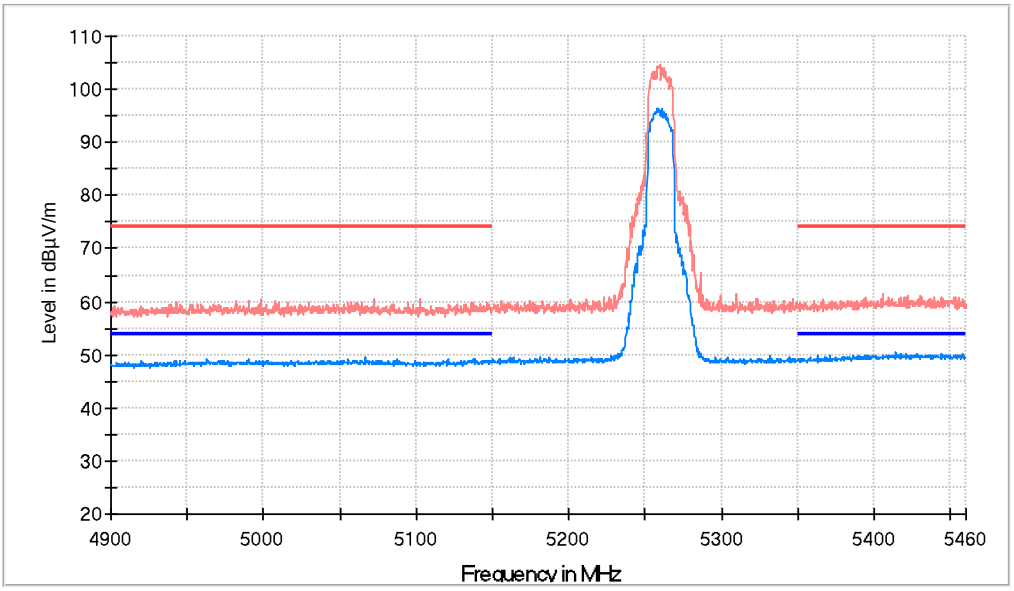
Frequency (MHz)	MaxPeak (dBµV/m)	QuasiPeak (dBµV/m)	Pol	`Margin - QPK (dB)	Limit - QPK (dBµV/m)
110.655500	34.1	27.6	V	15.9	43.5
134.517500	32.6	25.3	V	18.2	43.5
163.617500	46.0	39.6	V	3.9	43.5
165.315000	45.6	39.1	V	4.4	43.5
168.952500	45.2	38.1	V	5.4	43.5
241.605500	33.2	24.5	V	21.5	46.0

Frequency Range GHz = [1, 18], Frequency MHz = 5260.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Measurement Point = 1

Images:

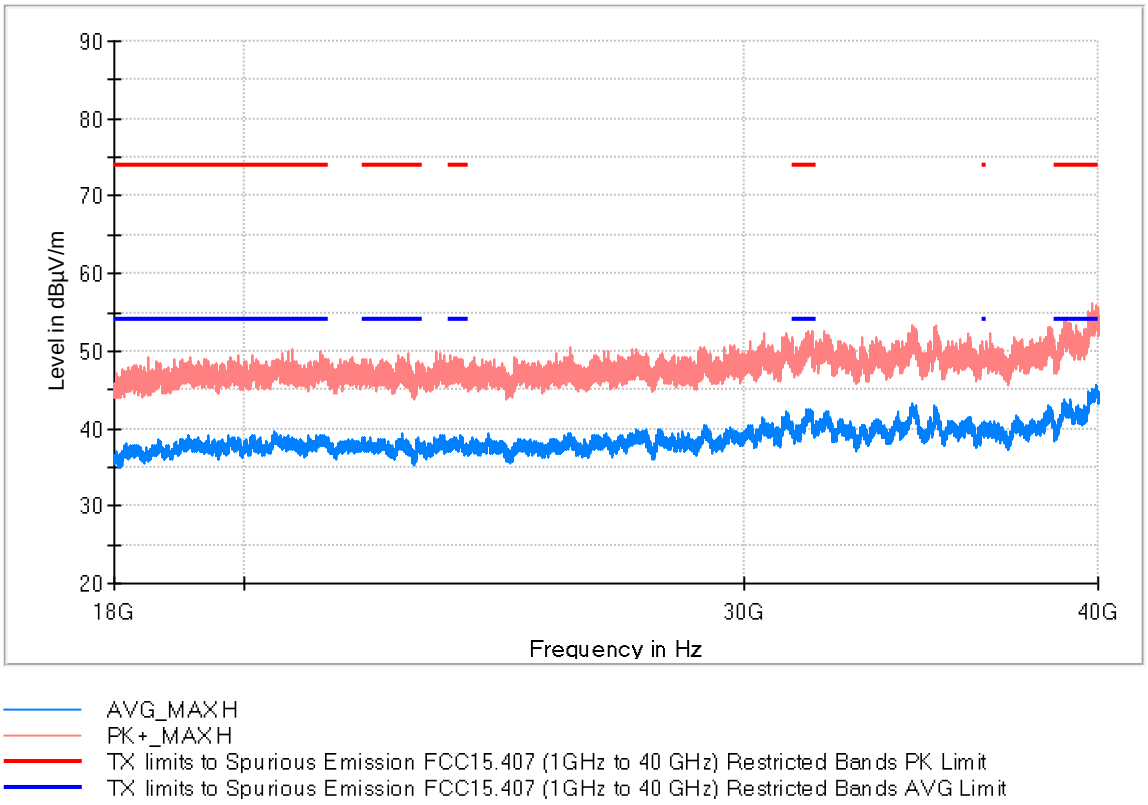


Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
1124.909091	44.6	36.3	V	17.7	54.0	
1499.909091	46.2	36.3	H	17.7	54.0	
5260.545455	104.0	95.3	H	---	---	Fundamental


110
100
90
80
70
60
50
40
30
20
Level in dBµV/m
4900
5000
5100
5200
5300
5400
5460
Frequency in MHz
AVG_MAXH
PK+_MAXH
TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency Range GHz = [18, 40], Frequency MHz = 5260.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Measurement Point = 1

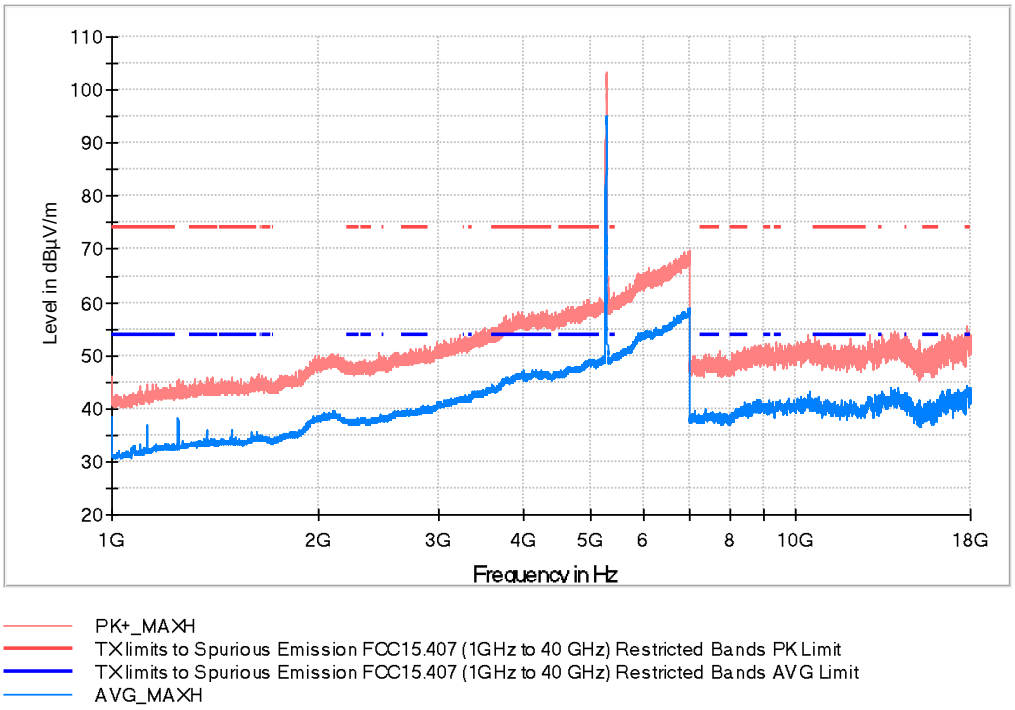
Images:



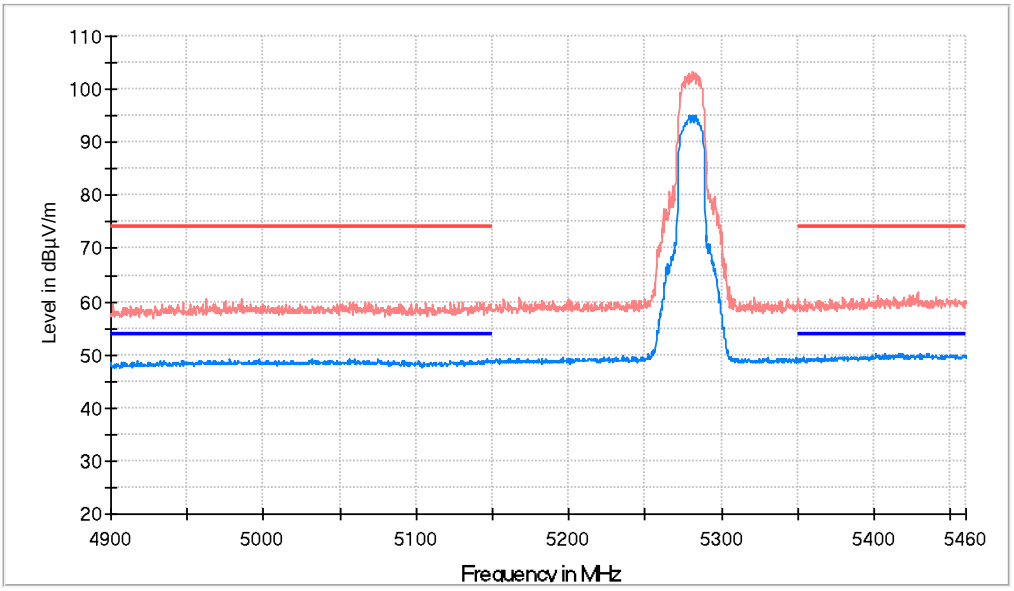
Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)
22736.187500	48.3	39.4	H	14.6	54.0

Frequency Range GHz = [1, 18], Frequency MHz = 5280.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Measurement Point = 1

Images:



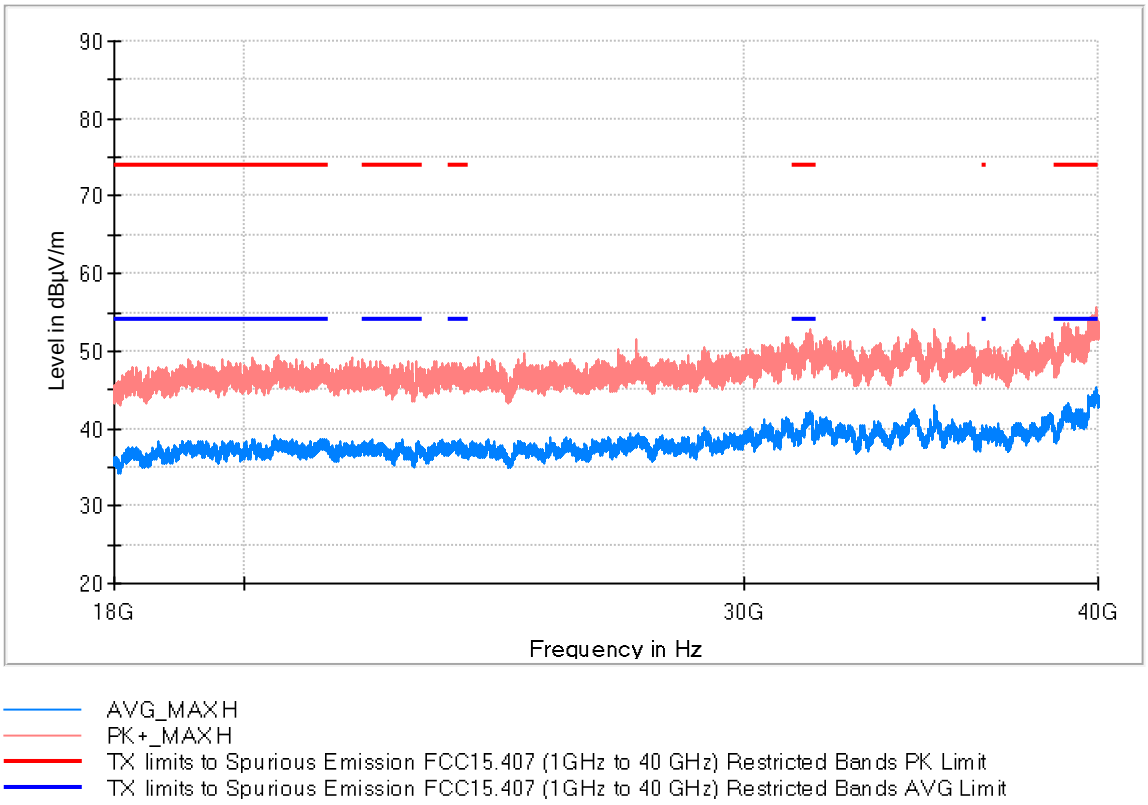
Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
1124.909091	44.2	36.8	V	17.2	54.0	
1375.000000	44.0	36.0	V	18.0	54.0	
5282.363636	103.1	95.1	H	---	---	Fundamental



AVG_MAXH
PK+_MAXH
TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency Range GHz = [18, 40], Frequency MHz = 5280.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Measurement Point = 1

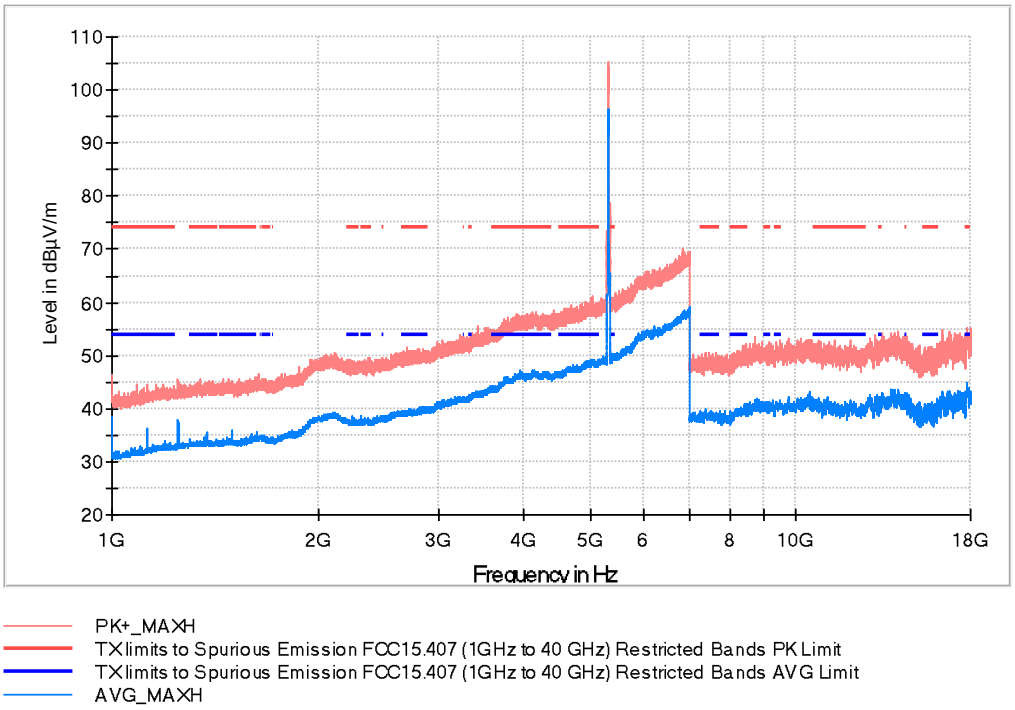
Images:



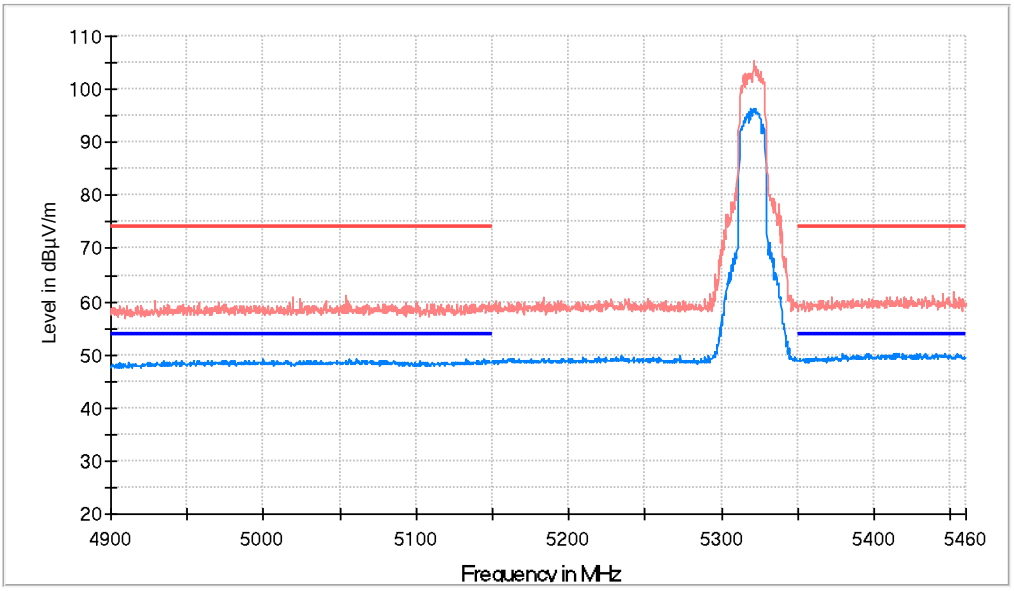
Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)
20504.562500	47.7	39.1	V	14.9	54.0

Frequency Range GHz = [1, 18], Frequency MHz = 5320.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Measurement Point = 1

Images:



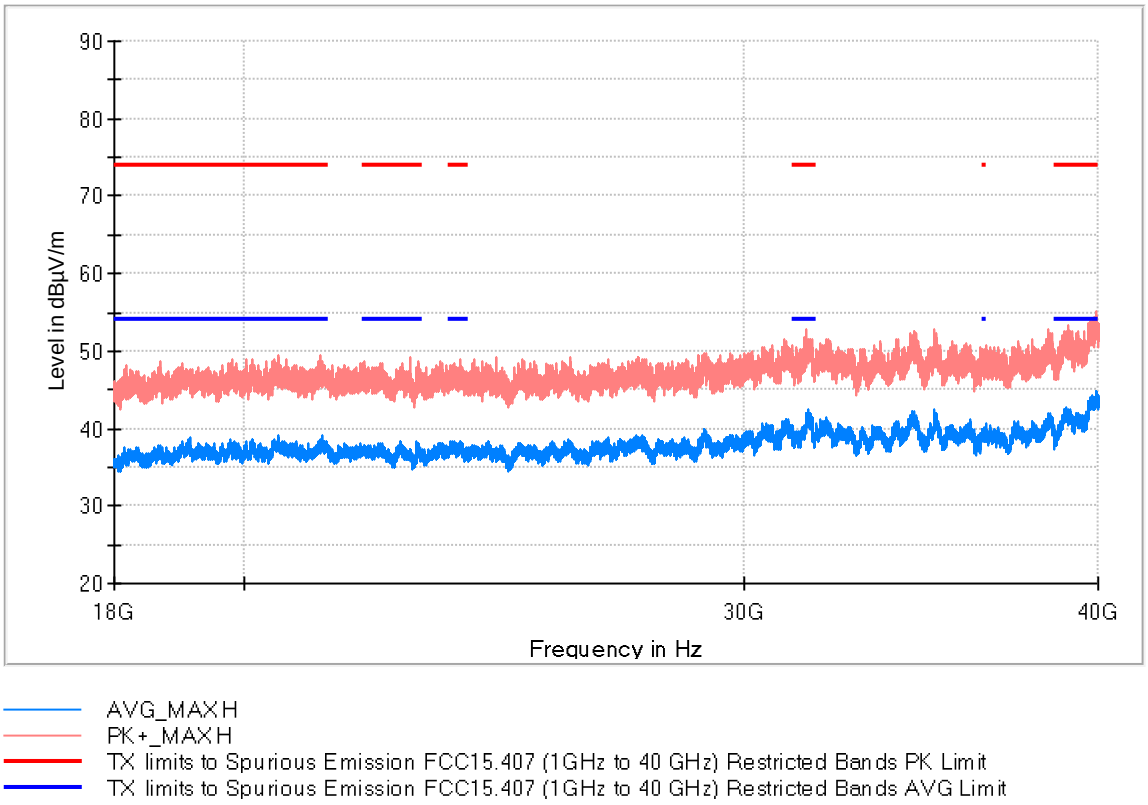
Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
1124.636364	44.6	36.1	V	17.9	54.0	
1499.363636	44.7	35.4	H	18.6	54.0	
5321.363636	105.2	95.7	H	---	---	Fundamental



AVG_MAXH
PK+_MAXH
TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit

Frequency Range GHz = [18, 40], Frequency MHz = 5320.00000, Modulation = 802.11a (OFDM 6 Mbit/s), Measurement Point = 1

Images:



Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)
19137.125000	47.0	38.9	H	15.1	54.0

Modulation: 802.11n HT40 (OFDM MCS0)
Results

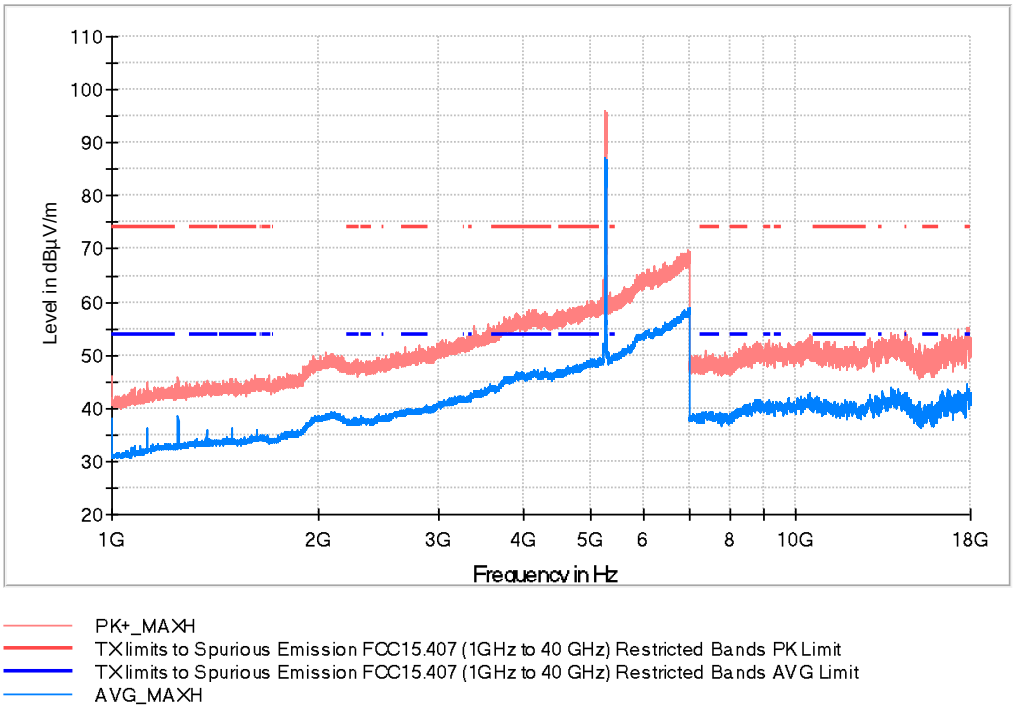
Verdict

Pass

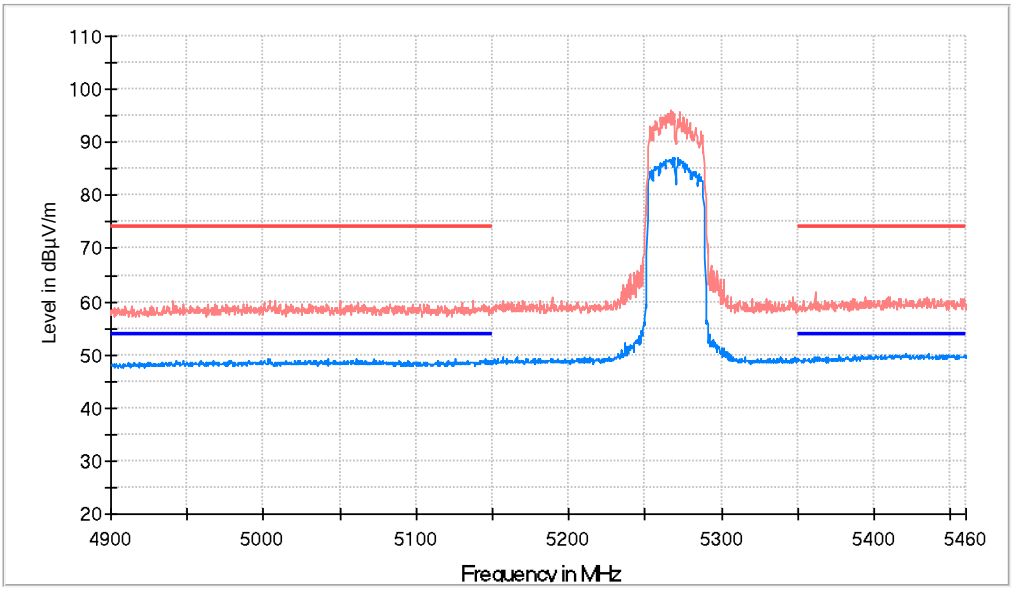
Attachments

Frequency Range GHz = [1, 18], Frequency MHz = 5270.00000, Modulation = 802.11n HT40 (OFDM MCS0), Measurement Point = 1

Images:



Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Comment
1124.636364	43.9	36.1	V	17.9	54.0	
1375.000000	45.2	36.1	V	17.9	54.0	
1499.909091	45.4	36.2	V	17.8	54.0	
5268.454546	94.9	87.2	H	---	---	Fundamental


110
100
90
80
70
60
50
40
30
20
Level in dBµV/m
4900
5000
5100
5200
5300
5400
5460
Frequency in MHz
AVG_MAXH
PK+_MAXH
TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands PK Limit
TX limits to Spurious Emission FCC15.407 (1GHz to 40 GHz) Restricted Bands AVG Limit