

Prüfbericht-Nr.: Test report no.:	IN23ULAF 001	Auftrags-Nr.: Order no.:	146815199 0010	Seite 1 von 198 Page 1 of 198
Kunden-Referenz-Nr.: Client reference no.:	2324191	Auftragsdatum: Order date:	2023-07-28	
Auftraggeber: Client:	elInfochips Inc 181 Metro Drive, Suite 170, San Jose, CA 95110			
Prüfgegenstand: Test item:	Aikri-82X-50AS-8	Product Type	Wi-Fi BT Module	
Bezeichnung: Identification.:	EIC-QCS8250-200-001			
Auftrags-Inhalt: Order content:	Testing and issue of Test Report and Grant Certificate			
Prüfgrundlage: Test specification:	FCC Part 15 Subpart C & E, 15.247, 15.407,15.207, 15.209 & 15.205			
Wareneingangsdatum: Date of sample receipt:	2023-08-18			
Prüfmuster-Nr & Serien-Nr.: Test sample no & serial no.:	A003542986-001 A003542986-002			
Prüfzeitraum: Testing period:	2023-08-18 - 2023-08-24			
Ort der Prüfung: Place of testing:	Wireless laboratory, Bangalore			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (India) Pvt.Ltd., 27/B, 2nd Cross, Electronic City Phase1 Bangalore -560 100, India FCC Test site registration number: 496599			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:			genehmigt von: authorized by:	
Datum: Date:	2024-05-30		Ausstellatum: Issue date:	2024-05-31
Stellung / Position:	Likhithesh M D Senior Engineer		Stellung / Position:	Madhu K N Assistant Manager
Sonstiges / Other:	FCC ID: 2ATUP-AIKRI-82X-50S			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend N/A = nicht anwendbar	4 = ausreichend N/T = nicht
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory N/A = not applicable	4 = sufficient N/T = not tested
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- | | |
|---|---|
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| 4 | <p>Die Entscheidungsregel für Konformitätserklärungen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird.</p> <p><i>The decision rule for statements of conformity in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report.</i></p> |

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TEST SUMMARY

Test Item	Applicable Clause	Result
	FCC	
Emission Bandwidth	15.247 (a) (2), 15.407 (a) & (e)	Pass
Frequency Stability	15.407 (g)	Pass
Maximum conducted output power	15.247 (b) & 15.407 (a)	Pass
Maximum Power spectral density	15.247 (e) & 15.407 (a)	Pass
Dynamic Frequency Selection	15.407 (h) FCC KDB Publication 905462 D02 & 905462 D03	Pass
Spurious Radiated Emissions & Restricted Bands of Operation	15.407 (b) / (15.205 & 15.209)	Pass
Conducted AC Power Lines	15.207	Pass

Product Category: Electronics Testing
Test Discipline : EMC Test Facility

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REVISION HISTORY OF THIS REPORT

Report Number	Version	Description	Issue date
IN23ULAF 001	01	Initial issue of report	2024-05-31

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1 GENERAL REMARKS

1.1 Attachments

All attachments are part of this test report and are issued in separate document

1. TEST SETUP PHOTOS
- 2: EUT EXTERNAL PHOTOS
- 3: EUT INTERNAL PHOTOS
- 4: FCC LABEL AND LABEL LOCATION
- 5: BLOCK DIAGRAM
- 6: SPECIFICATION OF EUT
- 7: SCHEMATIC DIAGRAM
- 8: BILL OF MATERIAL
- 9: USER MANUAL
- 10: MAXIMUM PERMISSIBLE EXPOSURE INFORMATION

2 TEST SITES

2.1 Testing Facilities

1. TÜV Rheinland (India) Pvt.Ltd.,
27/B, 2nd Cross,
ElectronicCityPhase1
Bangalore – 560 100,
India
2. TUV Rheinland (India) Pvt.Ltd.,
108 , Beside ISBR Business School,
Electronic city Phase I
Bangalore - 560 100.
India

Radiated Measurement site type :
Fully anechoic chamber (used for above 1 GHz
measurements)

Radiated Measurement site type :
Semi anechoic chamber (used for below 1 GHz
measurements)

2.2 List of Test and Measurement Instruments

Table 1: List of test and measurement instruments

Equipment	Manufacturer	Model Name	Serial Number	Firmware Versions	Calibration Due Date	Periodicity	Test Facility
EMI Receiver	Rohde & Schwarz	ESW 44	101732	4.73 SP5	30.07.2024	Yearly	Radiated Spurious Emission
Active loop antenna	Frankonia	LAX-10	LAX-10-800	-	02.03.2024	Yearly	
Baloon and Biconical Antenna	Schwarzbeck mess-elektronik	VHBB-9124 / BBA-9106	01028	-	16.02.2024	Yearly	
Log-Periodic Antenna	Schwarzbeck mess-elektronik	VUSLP-9111B	9111B-111	-	17.02.2024	Yearly	
Horn Antenna	Schwarzbeck	BBHA 9120 D	9120D-01944	-	18.10.2023	Yearly	
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA 9170-0904	-	13.10.2023		
EMI Test Receiver	Rohde & Schwarz	ESW44	101773	1.72.SP1	15.02.2024	Yearly	
Semi Anechoic Chamber	Frankonia	-	-	-	-	-	
Fully Anechoic Chamber	Albatross	-	-	-	-	-	
Spectrum Analyzer	Agilent	E4407B	US411927 72	A.14.07	27-12-2023	Yearly	Conducted Test Parameters
Signal Analyser	Rohde & Schwarz	FSV7	101644	FW 3.40	03-02-2024	Yearly	Conducted AC Power line Test
EMI Receiver	Rohde & Schwarz	ESR7	101133	3.48 SP3	29.07.2024	Yearly	
Line Impedance Stabilization Network	Rohde & Schwarz	ENV 216	101434	-	10.10.2023	Yearly	
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100811	-	12.07.2024	Yearly	

Table 2: Instrument application Software versions

SL. No.	Test Type	Application software	Version
1	Radiated spurious emission measurement in SAC	EMC 32	10.60.00
2	Radiated spurious emission measurement in FAC	EMC 32	10.60.00
3	Conducted Antenna Port Measurement	WMS32	11.10.00

3 GENERAL PRODUCT INFORMATION

3.1 Product Function and Intended Use

This is a system on module (SoM) device based on QCS8250 processor. This SoM further can be used in any type of end product as a core of the system which can control the operations of the end product as well as can also provide interfaces like DSI, CSI, PCIe, I2S, I2C, GPIOs which can be accessible through its board to board connector on the host board.

The SoM is designed to be used in various product segments and the end usecase will be dependent on the end product.

3.2 Ratings and System Details of Equipment under Test

Table 3: Ratings and System Details as declared by the Client*

Radio Protocol		WI-FI 5GHz
Operating Frequency Range		UNII-1 _ 5150MHz to 5250MHz UNII-3 _ 5725MHz to 5825MHz
No. of Channels		(Refer Table 5)
Channel Spacing		5 MHz
Modulation		802.11b: DSSS ; 802.11g: OFDM; 802.11n: OFDM 802.11b: 1, 2, 5.5 , 11Mbps; 802.11g: 6 to 54Mbps 802.11n: MCS0 to MCS7; 802.11a: 6Mbps & 54Mbps 802.11ac : MCS0 to MCS9 802.11ax : MCS0 to MCS11
Power level setting used		Refer Clause 12
Maximum Measured Power		22.37dBm at 5190MHz ac mode MCS0 21.91dBm at 5755MHz VHT40 MCS0
Number of antennas		2 (2X2) MIMO
Antenna type & gain		Patch Antenna FXP840.07.0055B 1.30dBi
Supply Voltage to Product		3.8V DC through AC/DC Adapter , < 2.0A
Environmental Conditions	Storage	-20°C to +50 °C Relative Humidity <95%
	Operating	
EUT Dimension(LXW)		59.7 mm x 32.2 mm

***Disclaimer:** The information/data is supplied by the client and the same is considered to arrive at the final value. Any changes made apart from the specified specification, can directly impact on the tests results. Refer the products user manual for more details.

3.3 Measurement Uncertainty:

Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$

Table 4: Measurement Uncertainty

Parameter	Uncertainty
Occupied Channel Bandwidth	$\pm 5 \%$
RF output power, conducted	$\pm 1.5 \text{ dB}$
Power Spectral Density, conducted	$\pm 3 \text{ dB}$
Unwanted Emissions, conducted	$\pm 3 \text{ dB}$
SAC, radiated measurement	$\pm 6 \text{ dB}$
FAC, radiated measurement	$\pm 6 \text{ dB}$
Temperature	$\pm 3 \text{ }^{\circ}\text{C}$
Supply Voltages	$\pm 3 \%$
Time	$\pm 5 \%$

4 TEST SET-UP AND OPERATION MODE

4.1 Principle of Configuration Selection

Transmission was enabled with highest possible duty cycle on low, mid and high channels.

4.2 UUT Operation and Software

Hardware Version Identification number (HVIN) : QCS8250 SOM REV 2.0
Software version : QCS8250_AND.10.0.0_EI.2.2.0

4.3 Special Accessories and Auxiliary Equipment

Test laptop (QRCT Radio control tool V4.0 Software Version : 4.0.00192.0),
USB cable

4.4 Simultaneous Transmission

This product supports Simultaneous transmission

4.5 Countermeasures to achieve EMC Compliance

None

4.6 List of frequencies

Frequency Band	Channel No.	Frequency (MHz)
5150–5250 MHz	36	5180
	38	5190
	42	5210
	46	5230
	48	5240
5725-5825 MHz	149	5745
	151	5755
	155	5775
	159	5795
	165	5825

Table 5: List of Wi-Fi center Frequencies

Channel used for Wi-Fi Testing

Channel Bandwidth (20MHz)	Channel Bandwidth (40MHz)	Channel Bandwidth (80MHz)
5180	5190	5210
5240	5230	5755
5745	5755	-
5825	5795	-

Note:

TUV Sample Identification number A003542986-001 Radiated test Sample
A003542986-002 Conducted test Sample

4.7 Report Reference

Note: Product **Aikri-82X-50AS-8** has multiple protocols. All the supported wireless protocols and their respective test results are issued in separate test reports, following table lists the report numbers.

Radio Protocol	Report Number
RF test report for Wi-Fi (2.4GHz) & BLE (2.4GHz)	IN23LG3K 001
RF test report for Bluetooth (2.4GHz)	IN23I1L3 001
RF test report for Wi-Fi (5GHz) – (This report)	IN23ULAF 001

5 OPERATIONAL DESCRIPTION

QCS8250 SOM can be used in different types of end product as an main processing unit. Application can be used with a custom designed carrier board. SOM will be connected to Carrier board using its 4 Board to Board connector.

- Video Streaming over ethernet/USB with Audio.
- Video Streaming over Display with Audio
- In robotics application with motion and camera recording.
- Video Conferencing Devices (Camera and Display both are required).
- Camera related application ex.: drone, in robotics.
- Medical Devices which requires camera and display interfaces like endoscopy device etc... any medical related certification needs to be considered at end product level

Main parts on SOM and respective top level features are as below:

1. Processor QCS8250 Features:

- QCS8250 SoM is based on QCS8250 Qualcomm® processor.
- QCS8250 is the new generation Qualcomm® Snapdragon™ premium-tier processor with robotic application. It is designed with the 7 nm process, for superior performance and power efficiency.

2. Memory:

LPDDR5:

- The QCS8250 device PoP supports 64-bit (4 × 16) 4-channel stacked memory LPDDR5, thereby increasing operational bandwidth and simplifying routing—no pre-stacking is needed.

UFS:

- The UFS host controller support UFS 3.1, QCS8250 kit memory configuration is UFS 2.1

3. Multimedia Features:

- Supports 6x 4-lane CSIs (D-PHY V1.2), supporting 2.5Gbps per lane. Dedicated camera I2C ports for the camera control interface
- Supports 2x 4-Lane MIPI DSI D-PHY 1.2 supporting resolutions up to 4K@60 (after combined 2 MIPI ports)
- Support USB Display port 1.4 over Type C, can support two 4K@60 streams using MST HUB or one 4K@60 stream using SST adapter.
- Supports 2x PCIe Gen3 2-lane.
- Supports 1x USB 3.1 Type-C connector.
- Supports 1x USB 3.1 Type-A connector.
- Supports 1x Micro-SD card V3.0 interface.

4. Audio Features:

- Six Native DMIC support on carrier board
- SLIMBUS – BT Audio (with Wi-Fi/BT chipset on SoM)

5. Wireless Connectivity:

- Wi-Fi and BT combo chipset QCA6391 of Qualcomm on SOM
- QCA6391 chipset supports Wi-Fi 6 (802.11 b/g/n/a/ac/ax) and Bluetooth 5.1 (with BLE) with external power amplifier for 2.4G, 5G frequencies.
- QCA6391 Chipset supports simultaneous 2.4GHZ and 5GHZ (MIMO).
- Supports 2 Channel MIMO (2 x 2)
- To connect external antenna on SoM board, U.FL connector is provided.
- Throughput and performance have been measured using external antenna: PN# FXP840.07.0055B by eInfochips.

6. Power Management:

Six PMICs:

- PM8150B
- PM8250
- PM8150L
- PM8002
- PM8009
- PM3003
- Different PMIC supply provisions are available at B2B connector, if required.

Above listed are the features of SOM Board, it can be used in below mentioned applications with a custom designed carrier board. SOM will be connected to Carrier board using its 4 Board to Board connector.

- Video Streaming over ethernet/USB with Audio.
- Video Streaming over Display with Audio
- In robotics application with motion and camera recording.
- Video Conferencing Devices (Camera and Display both are required).
- Camera related application ex.: drone, in robotics.
- Medical Devices

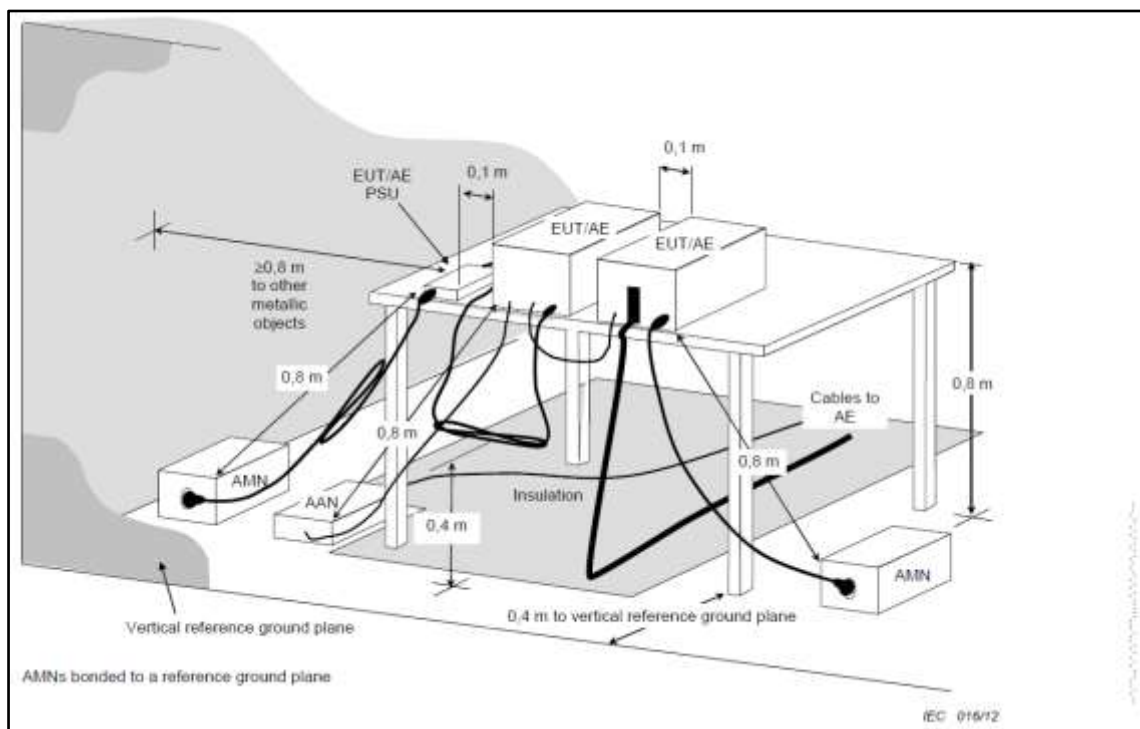
6 TEST METHODOLOGY

6.1 Conducted Spurious Emission AC Power line Test

Measured levels of ac power-line conducted emission across the 50Ω LISN port (to which the EUT is connected). All emission voltage and current measurements shall be made on each current-carrying conductor at the plug end of the EUT power cord by the use of mating plugs and receptacles on the LISN, if used. Equipment shall be tested with power cords that are normally supplied or recommended by the manufacturer and that have electrical and shielding characteristics that are the same as those cords normally supplied or recommended by the manufacturer.

The device is placed on the test table, raised 80cm above the reference ground plane. The vertical conducting plane is located 40cm to the rear of the device. AC Conducted emission measurement is made over frequency range from 150kHz to 30MHz, this measurement was performed with EUT powered by 2 methods and both method are tested individually, one with an AC adaptor with 110V AC 60Hz supply and second with Wireless charger with supply 110V AC 60Hz.

6.1.1 Test Setup Configuration



6.2 Radiated Emission Test

The radiated emission measurement was performed according to the procedures in ANSI C63.10-2013. The equipment under test (EUT) was placed at the middle of the 80 cm high turntable for below 1 GHz & 1.5 m height for above 1 GHz measurement, and the EUT is 3 meters far from the measuring antenna. The turntable was rotated 360° for obtaining the maximum emission. The height of the measuring antennas was scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations. Repeat the measurement steps until the maximum emissions were obtained. The measurement above 1000 MHz was performed by horn antenna, The measurement below 30 MHz was performed by loop antenna, Measurement from 30 MHz to 200 MHz was performed by Baloon and Biconical Antenna, and measurement from 200 MHz to 1 GHz was performed by Log-Periodic Antenna.

The EUT was rotated around the X-, Y-, and Z-Axis and the results from worst case axis are recorded

6.2.1 Test Setup Configuration

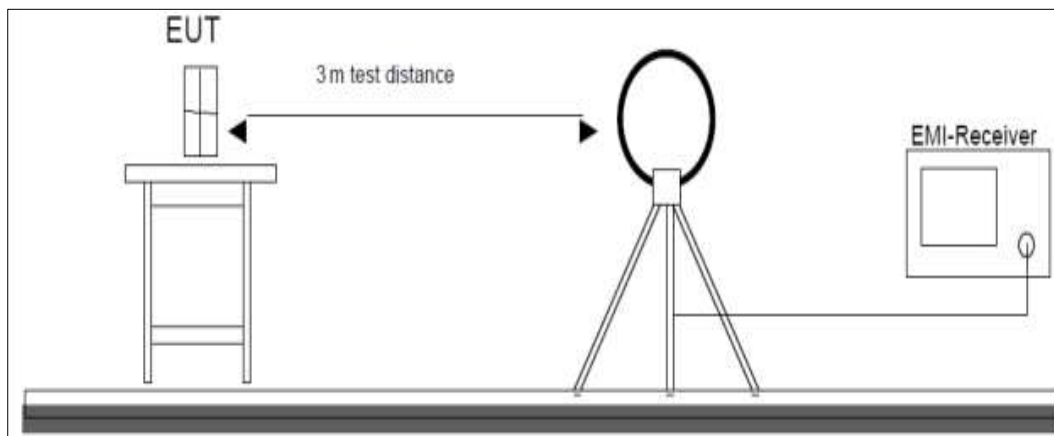


Figure 1: Frequency Range 9 kHz- 30 MHz

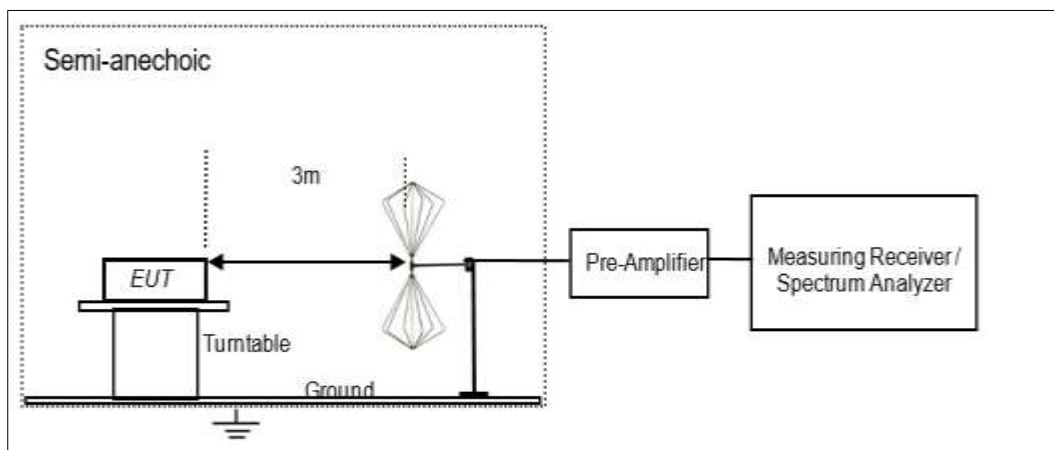


Figure 2: Frequency Range 30 MHz – 200 MHz

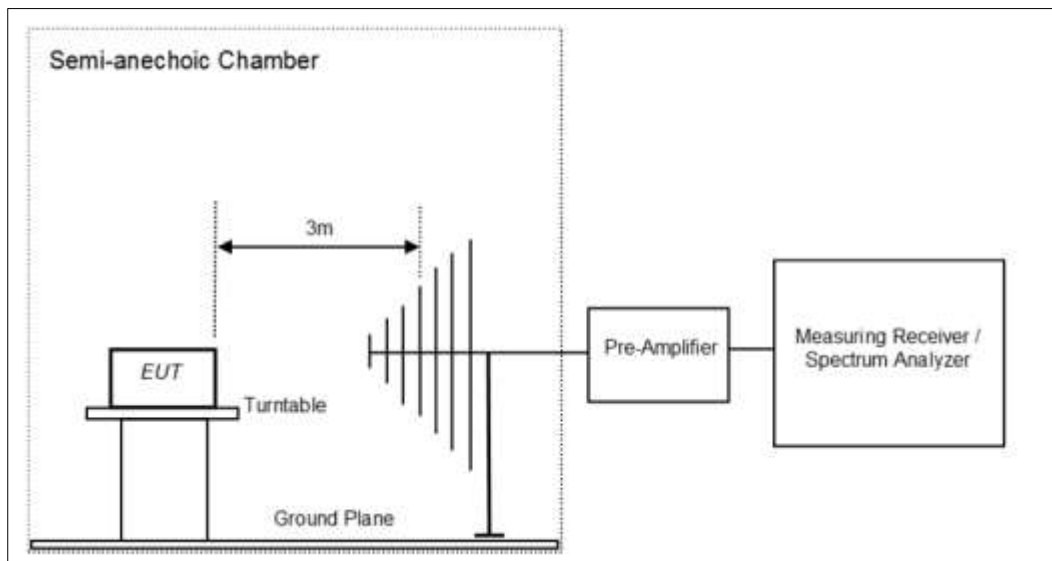


Figure 3: Frequency Range 200 MHz - 1GHz

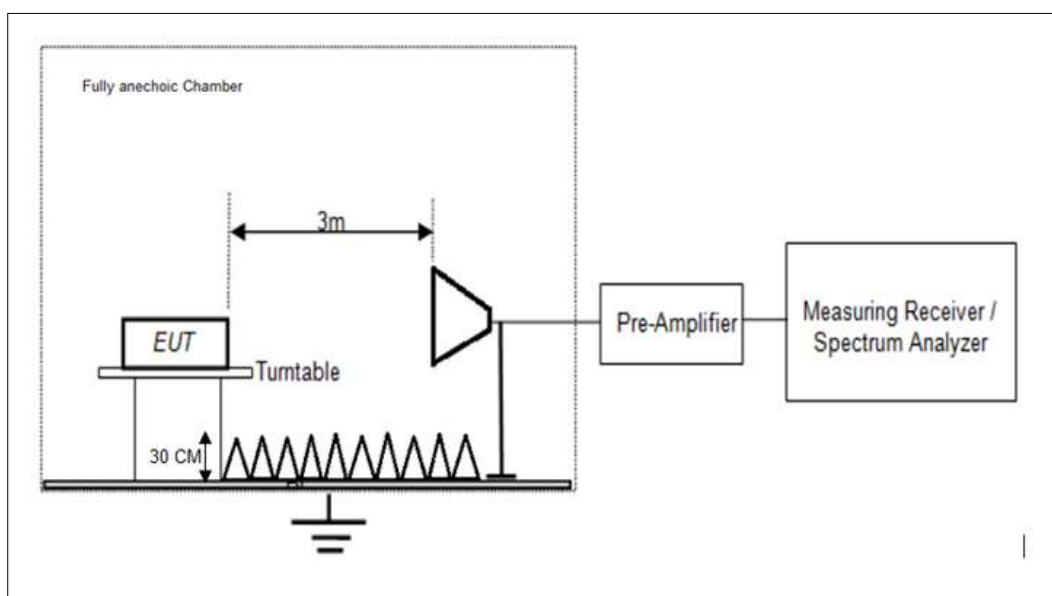


Figure 4: Frequency Range above 1 GHz

Frequency Range 30MHz to 10th harmonics of the highest fundamental frequency

Test performed as per ANSI C63.10-2013

Radiated spurious emission test are performed as below.

All the radiated emission measurements are performed in accordance with common requirement specified in 5.2 followed by substitution measurement as listed below

The equipment under test is placed on non-conductive table at 3m away from the receive antenna in accordance with above mentioned standard. Turn table is rotated through 360 degree, and receiver antenna height is varied in order to determine the level of maximum emission. The maximum emission level and position of the maximized emission is recorded with use of spectrum analyzer.

EUT power measured in a radiated test configuration using the signal (antenna) substitution techniques as per ANSI C63.10-2013 clause G.5.3

The ERP/EIRP may be determined from the power setting of a signal generator used in the signal (antenna) substitution test configuration as follows in Equation

$$\text{ERP EIRP} = \text{PT} + \text{GT} - \text{LC}$$

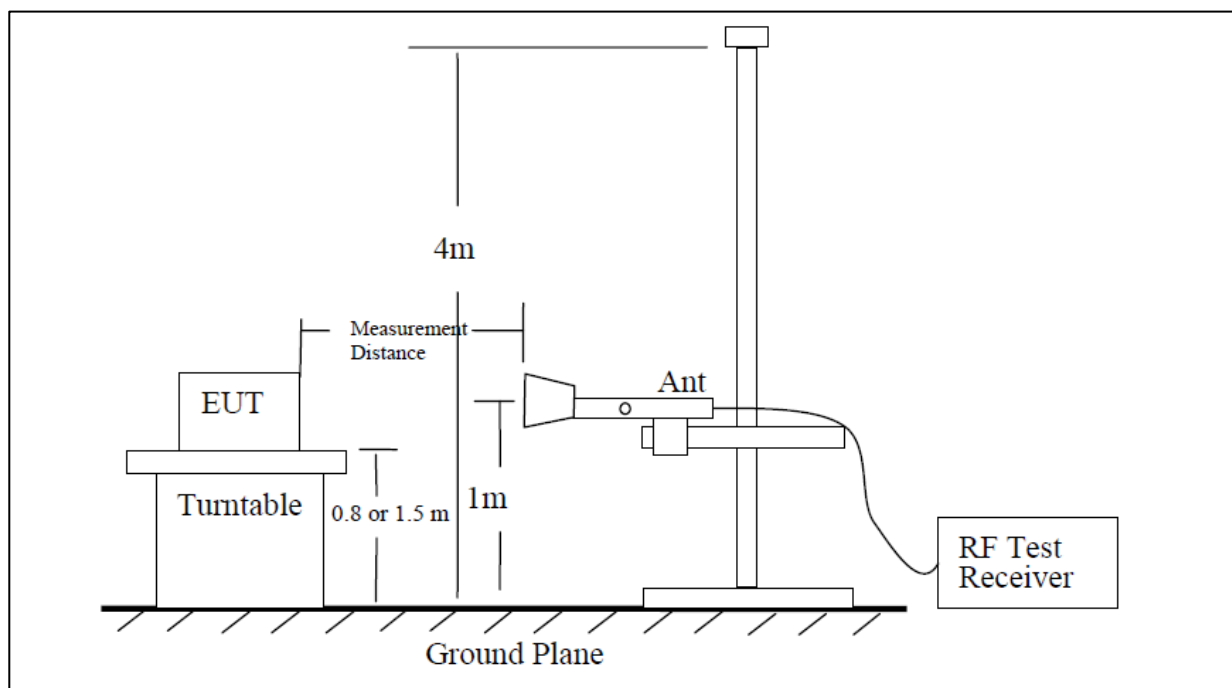
where

PSG is the power setting of the signal generator that produces the same received power reading as the DUT, in dBm, dBW, or psd

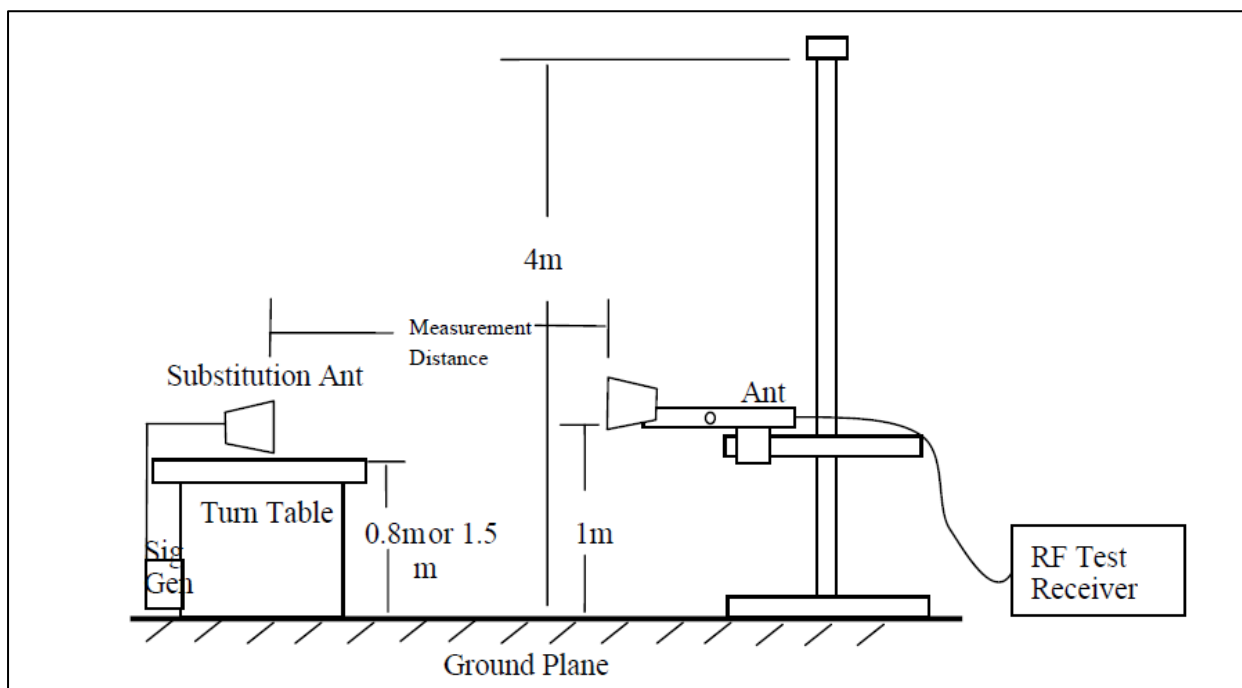
GT is the gain of the substitute antenna, in dBd (i.e., ERP) or dBi (i.e., EIRP)

LC is the signal loss in the cable connecting the signal generator to the substitute antenna, in dB

Test site-up for radiated measurements



Substitution method set-up for radiated emission



7 TEST RESULTS

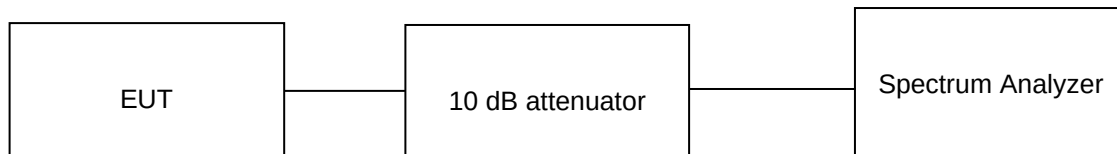
7.1 Emission Bandwidth

Result

Pass

Test Specification	FCC part 15 Subpart C & E, 15.247 (a) (2), 15.407 (a) & (e)
Test Method	Subclause 6.9.2 of ANSI C63.10
Measurement Bandwidth	Refer Test Method below
Detector	Refer Test Method below
Port of testing	Antenna port
Requirement	1. 99% emission band width measurement for reporting purpose only in the band 5150-5250 MHz 2. For equipment operating in the band 5725-5850 MHz, the minimum 6 dB bandwidth shall be at least 500 kHz

Test Method:



The following procedure shall be used for measuring (99%) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency
2. Set span = 1.5 times to 5.0 times the OBW
3. Set RBW = 1% to 5% of the OBW
4. Set VBW $\geq 3 \times$ RBW
5. Use the 99% power bandwidth function of the instrument
6. Use sample detector with single sweep mode, or use Peak detector and Max Hold mode (until the trace is stabilized)

The following procedure shall be used for measuring 6dB or 26dB emission bandwidth:

1. Set center frequency to the nominal EUT channel center frequency
2. Set span = 1.5 times to 5.0 times the OBW
3. Set RBW = 1% to 5% of the OBW (for 26 dB BW) & 100 kHz (for 6dB BW)
4. Set VBW $\geq 3 \times$ RBW
5. Determine the “-xx dB down amplitude” using [(reference value) – xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument.

Note : All the steps in measurement method of KDB 789033 D02, ANSI C63.10 section 6.9.2 & 6.9.3 are followed

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Test Condition:

Normal Test Condition:

Temperature (Norm) = + 25 °C Voltage = 3.8 V DC through AC to Dc adaptor Relative humidity: 62 %

KDB Guidelines applied:

Measurements were made as per section C & D in KDB 789033 D02 General UNII Test Procedures New Rules v02r01

Test results:

Modulation: 802.11a :

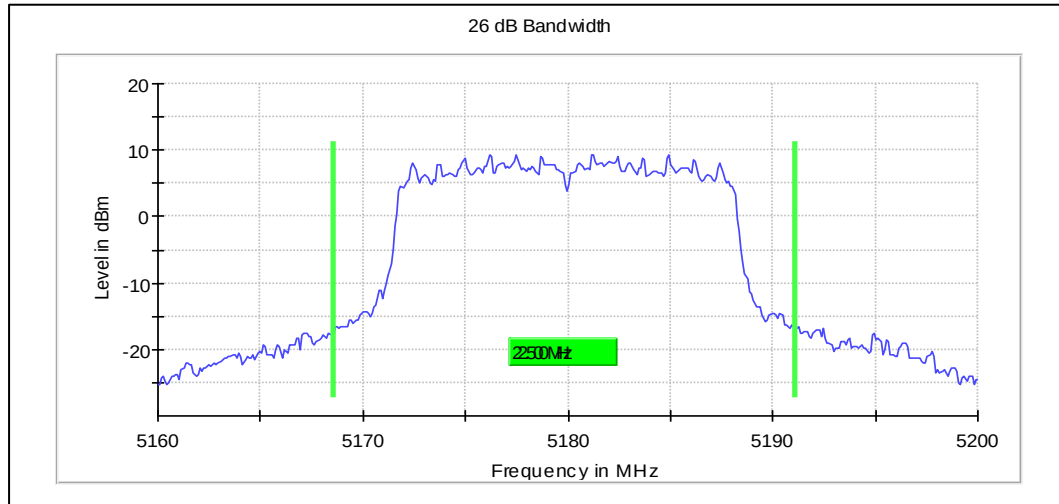
Modulation	Data rate (Mbps)	Measured Frequency (MHz)	26 dB emission bandwidth (MHz)	99% Occupied Bandwidth (MHz)
802.11a : UNII 1	6	5180	22.50	16.40
		5240	21.60	16.50
	54	5180	26.80	16.70
		5240	26.20	16.70

Modulation: 802.11a : UNII 3

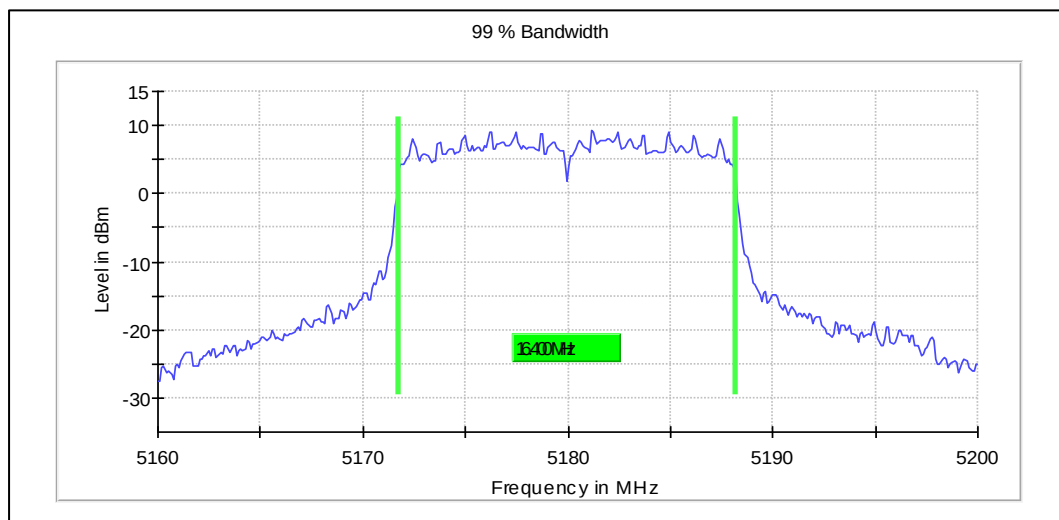
Data rate (Mbps)	Measured Frequency (MHz)	6 dB emission bandwidth (MHz)	Minimum Limit (MHz)
6	5745	16.35	0.5
	5825	16.00	0.5
54	5745	16.55	0.5
	5825	16.50	0.5

Data rate (Mbps)	Measured Frequency (MHz)	99% Occupied Bandwidth (MHz)
6	5745	16.40
	5825	16.80
54	5745	16.70
	5825	16.80

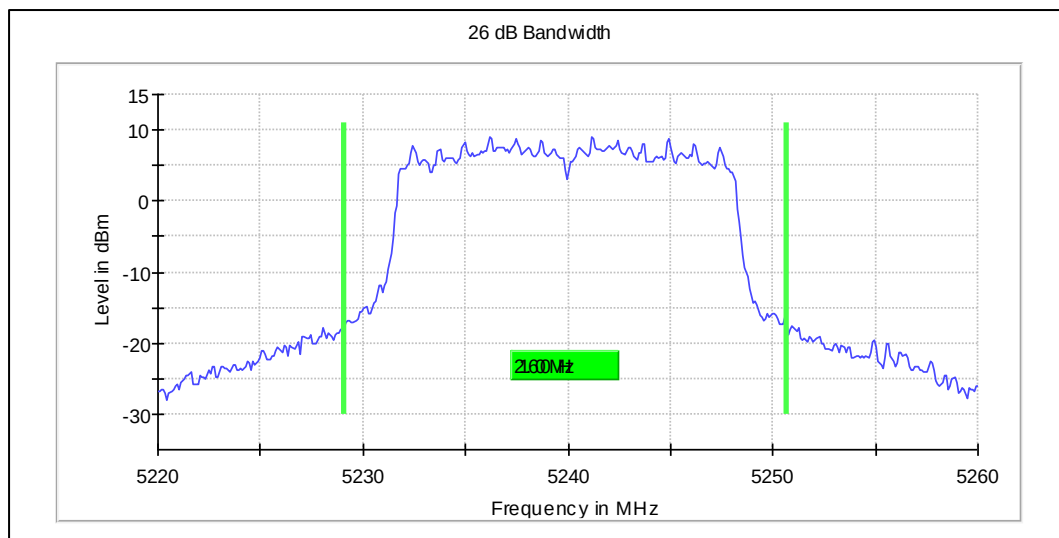
Data Rate: 6Mbps



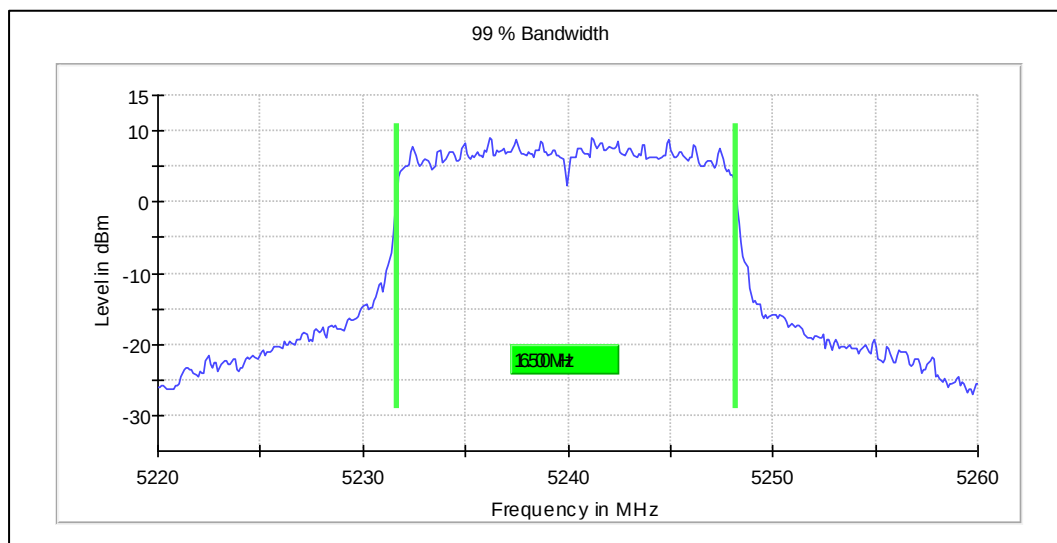
Channel Frequency 5180MHz



Channel Frequency 5180MHz

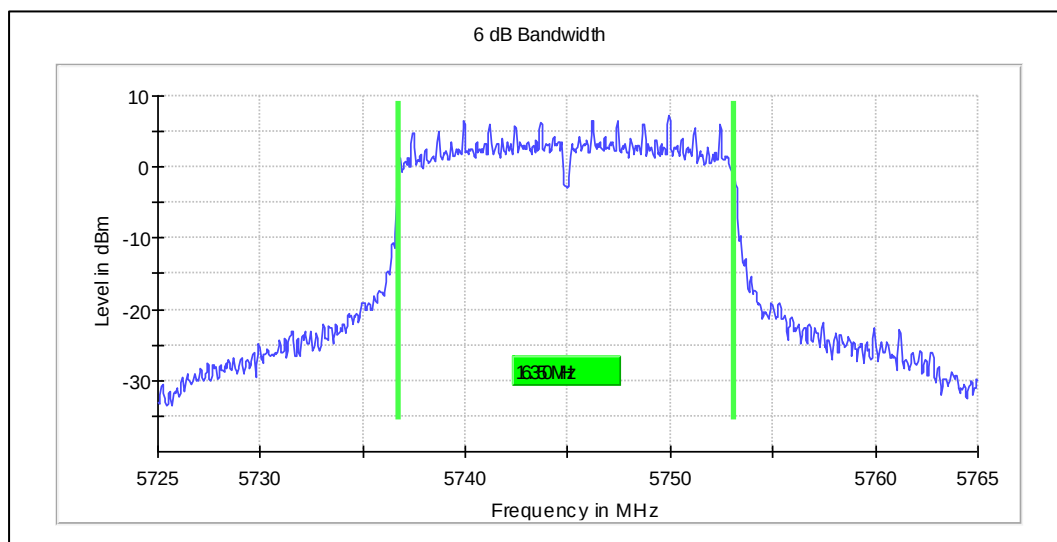


Channel Frequency 5240MHz

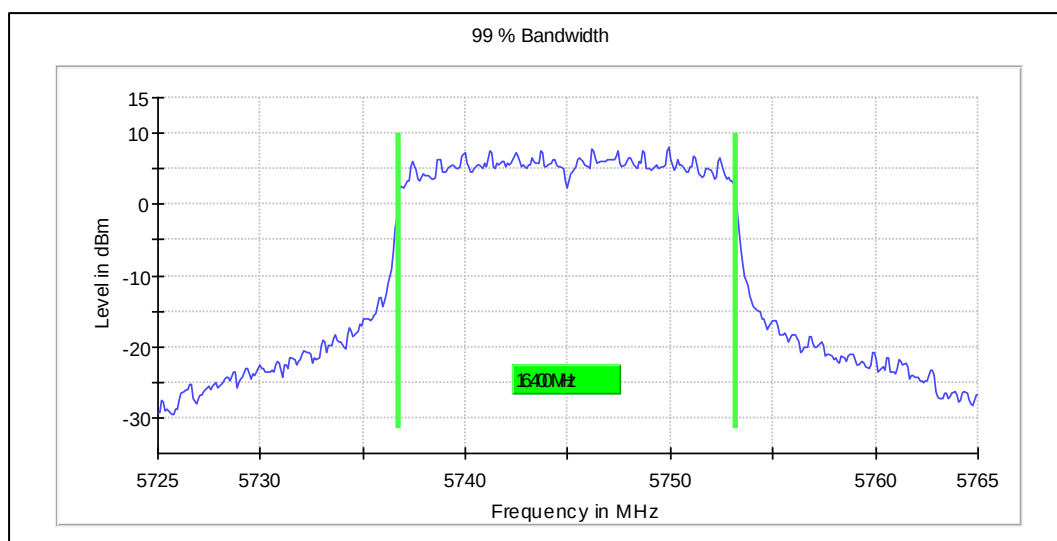


Channel Frequency 5240MHz

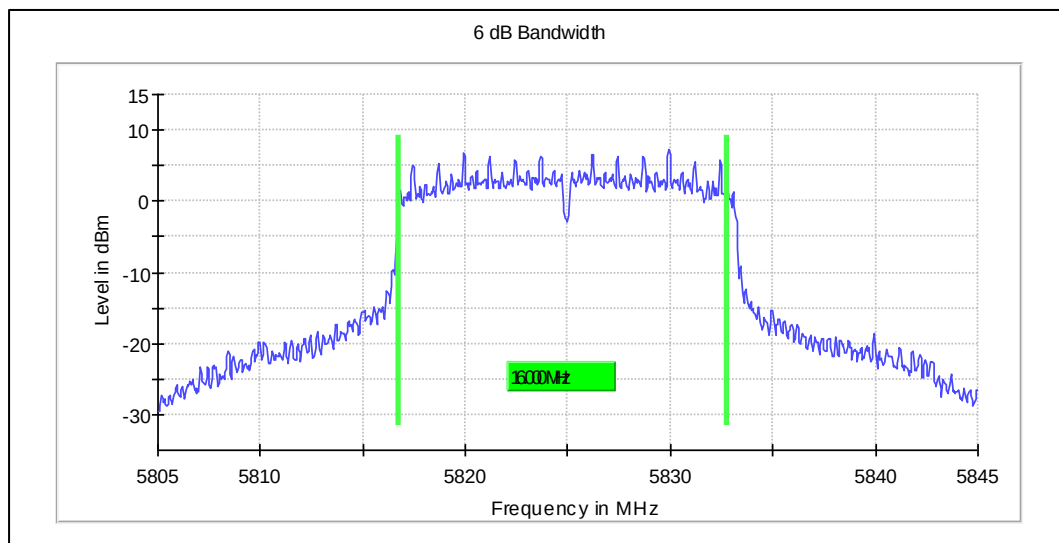
UNII-3



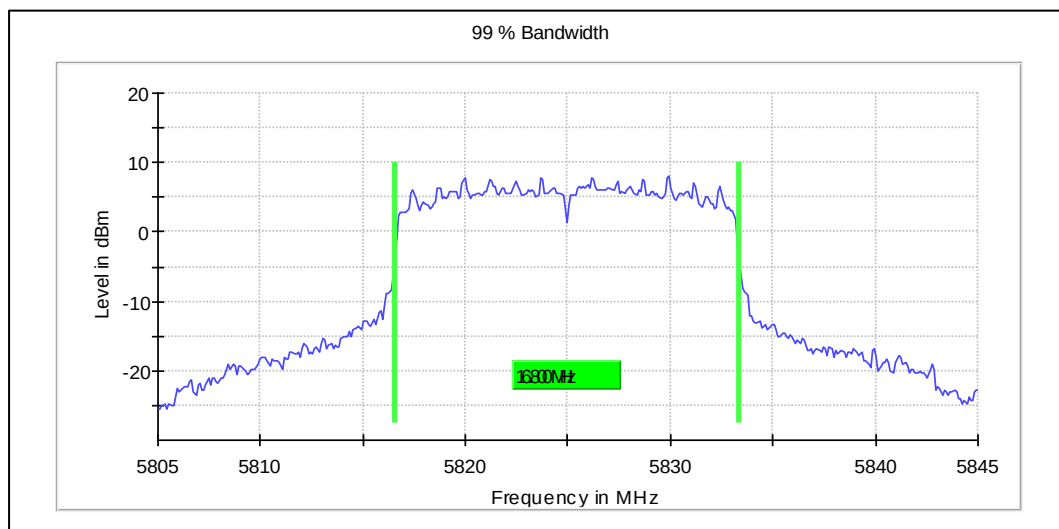
Channel Frequency 5745MHz



Channel Frequency 5745MHz

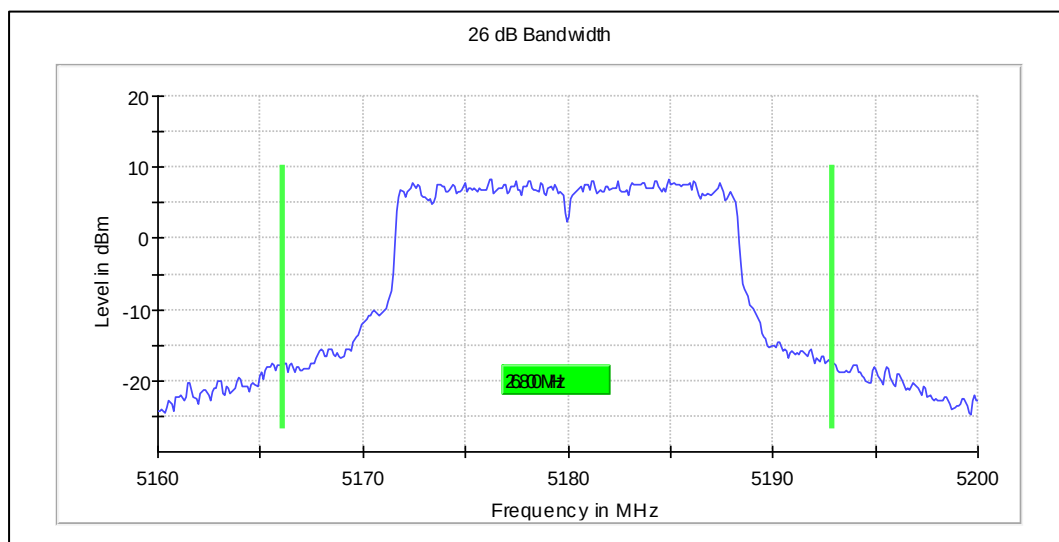


Channel Frequency 5825MHz

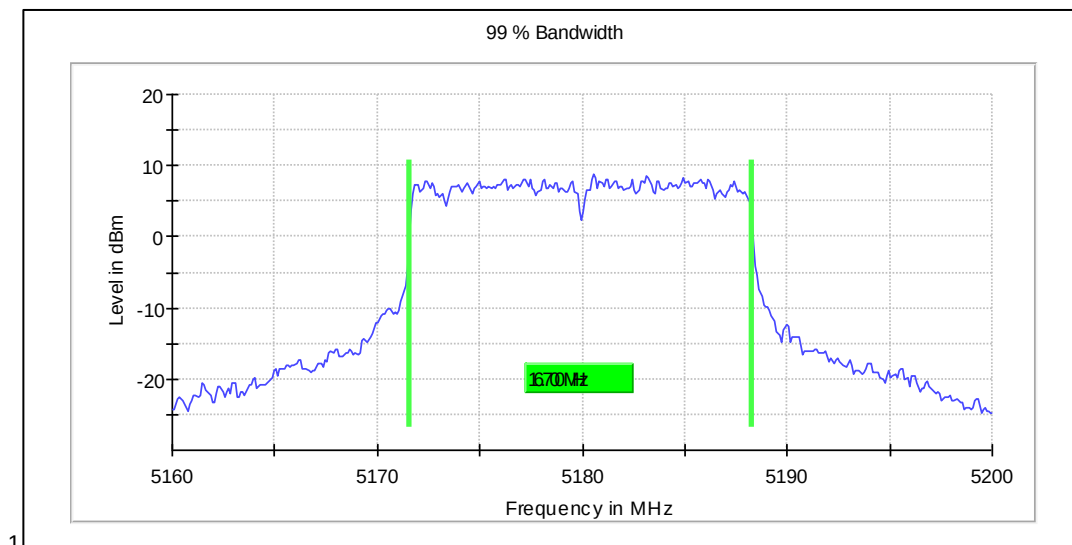


Channel Frequency 5825MHz

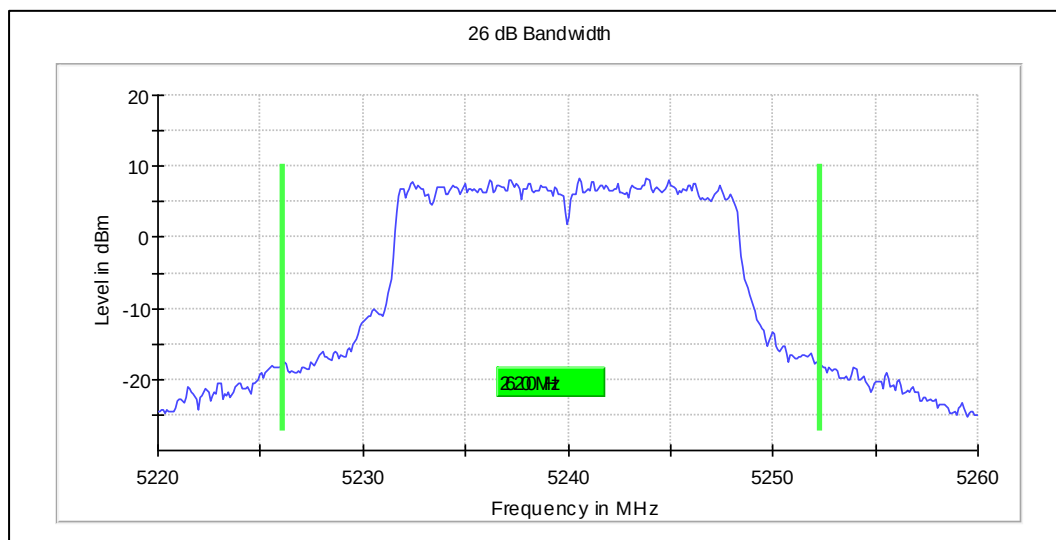
Data Rate: 54Mbps



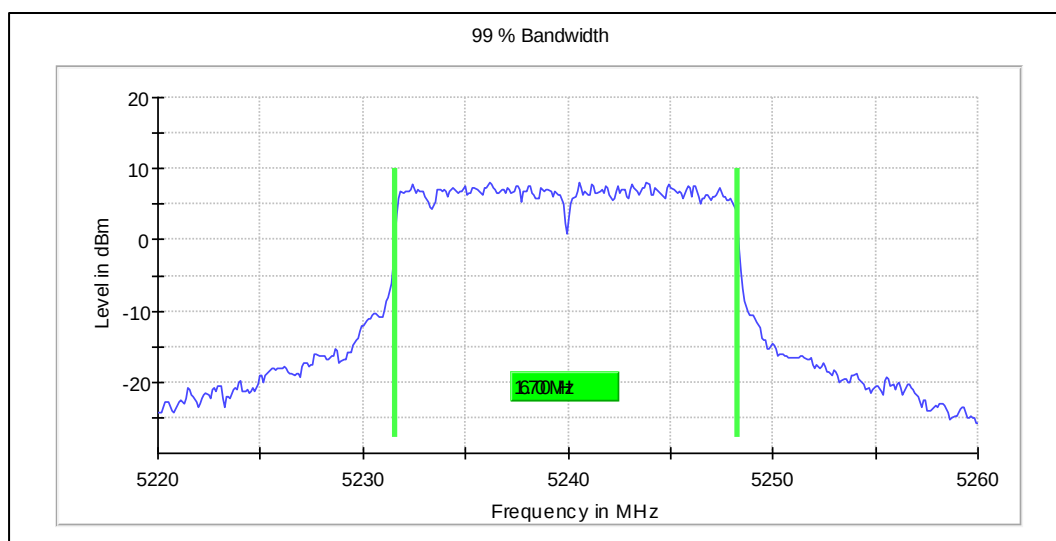
Channel Frequency 5180MHz



Channel Frequency 5180MHz

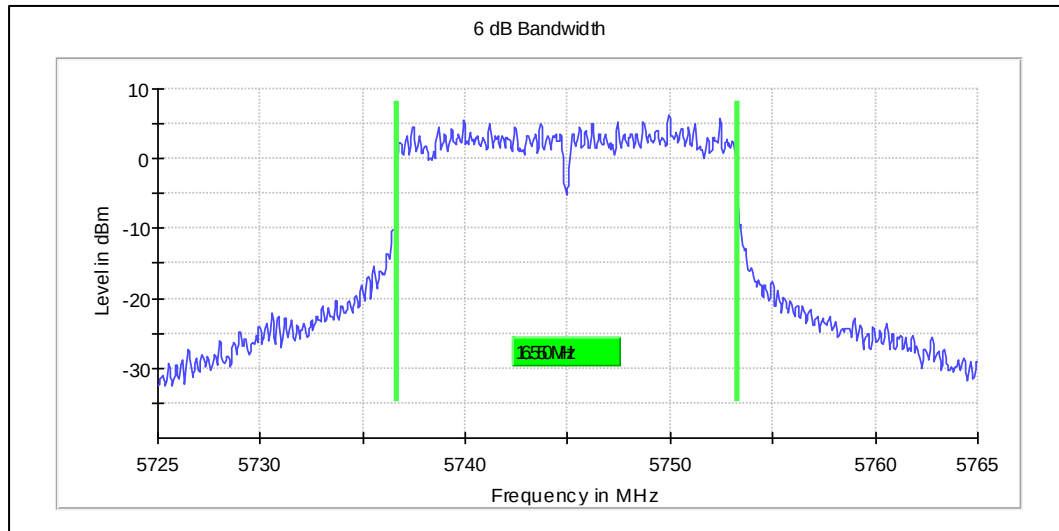


Channel Frequency 5240MHz

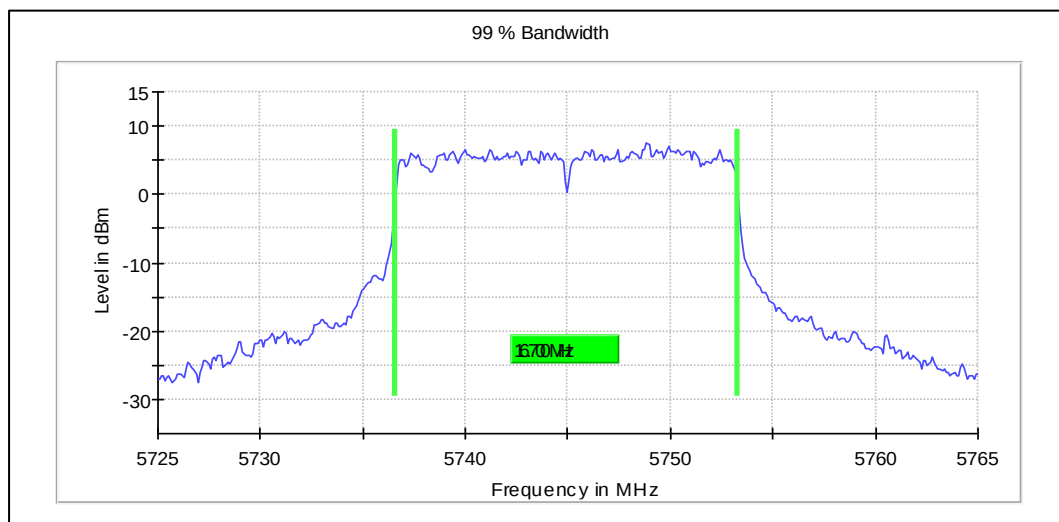


Channel Frequency 5240MHz

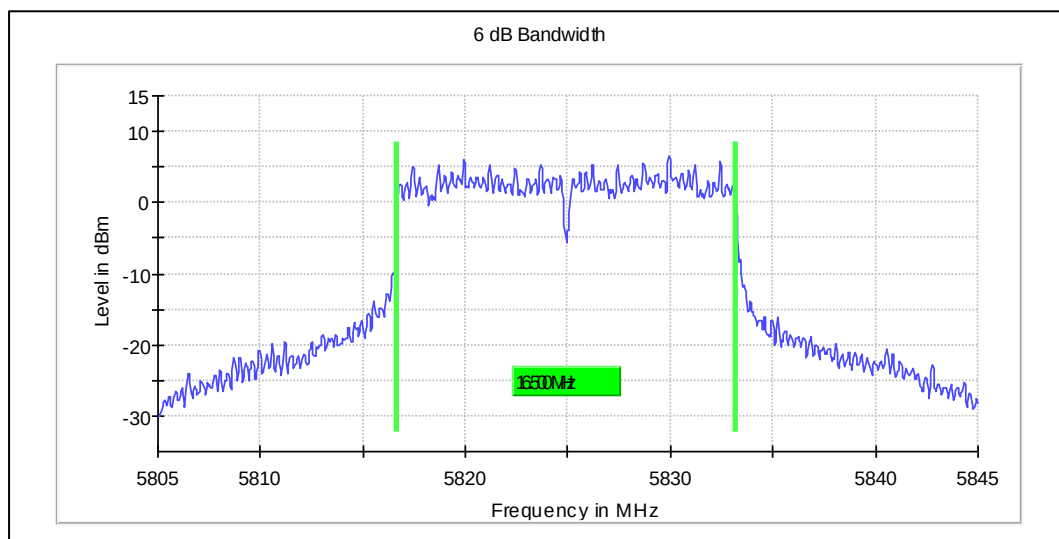
U-NII-3



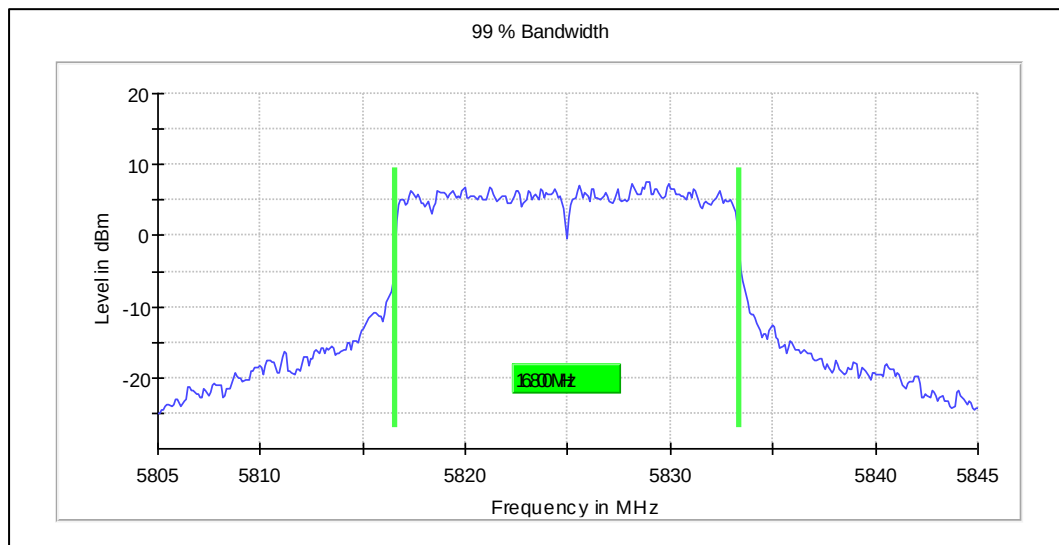
Channel Frequency 5745MHz



Channel Frequency 5745MHz



Channel Frequency 5825MHz



Channel Frequency 5825MHz

Modulation: 802.11n-HT20:

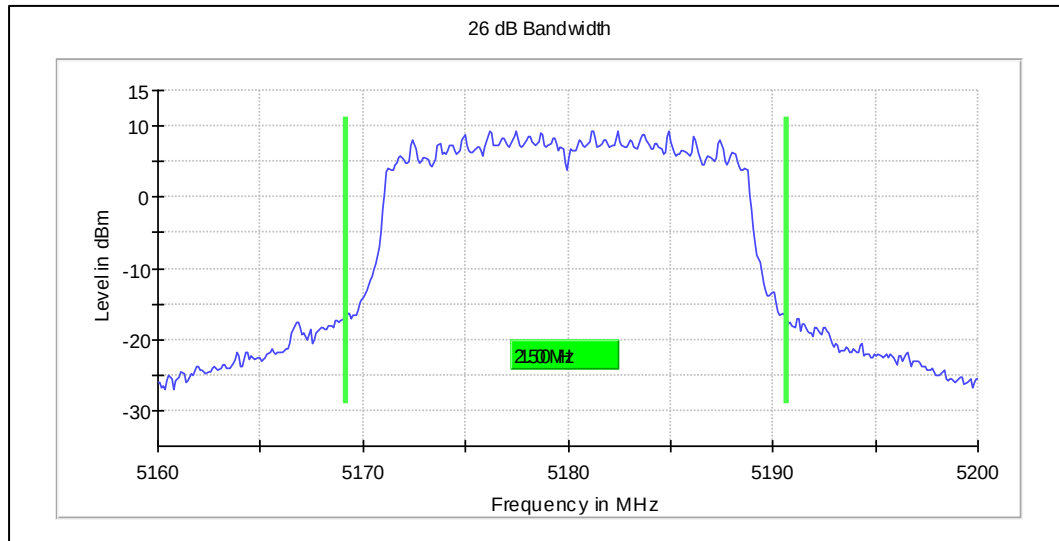
Modulation	Data rate	Measured Frequency (MHz)	26 dB emission bandwidth (MHz)	99% Occupied Bandwidth (MHz)
802.11n-HT20: UNII 1	MCS0	5180	21.50	17.60
		5240	21.40	17.60
	MCS7	5180	24.90	17.90
		5240	24.50	17.90

Modulation: 802.11n-HT20: UNII 3

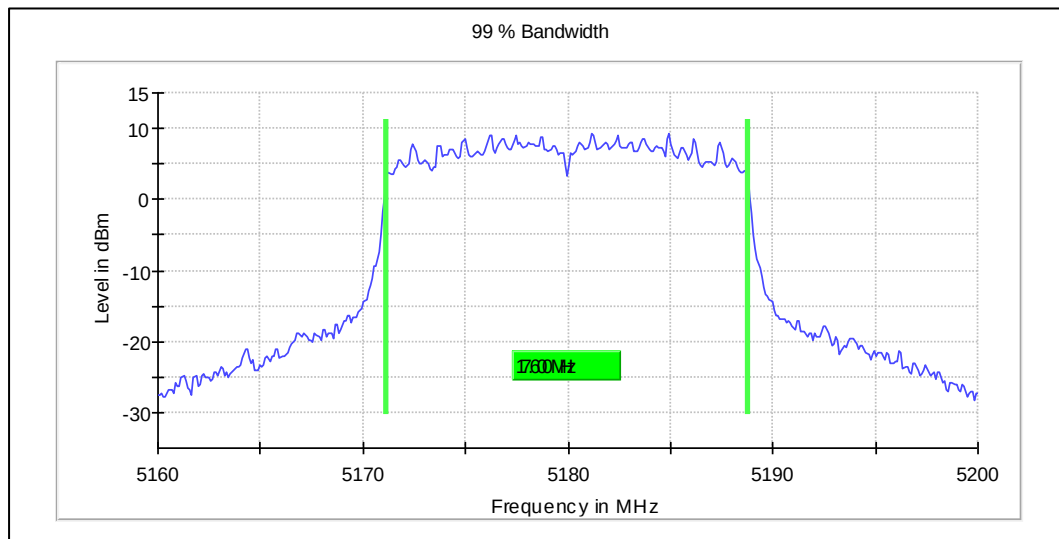
Data rate	Measured Frequency (MHz)	6 dB emission bandwidth (MHz)	Minimum Limit (MHz)
MCS0	5745	17.65	0.5
	5825	17.25	0.5
MCS7	5745	17.80	0.5
	5825	17.80	0.5

Data rate	Measured Frequency (MHz)	99% Occupied Bandwidth (MHz)
MCS0	5745	17.60
	5825	17.80
MCS7	5745	17.80
	5825	17.90

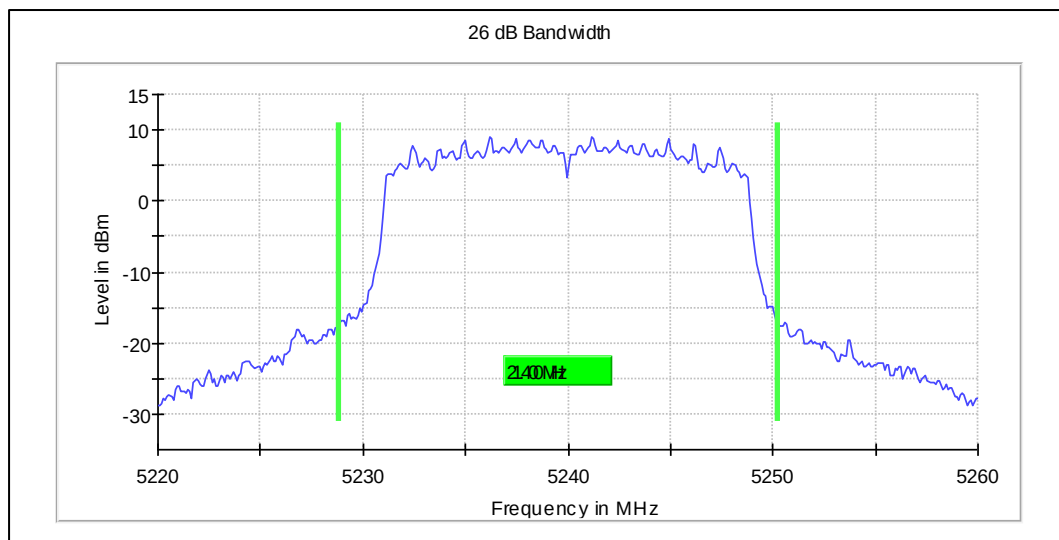
Data Rate: MCS0



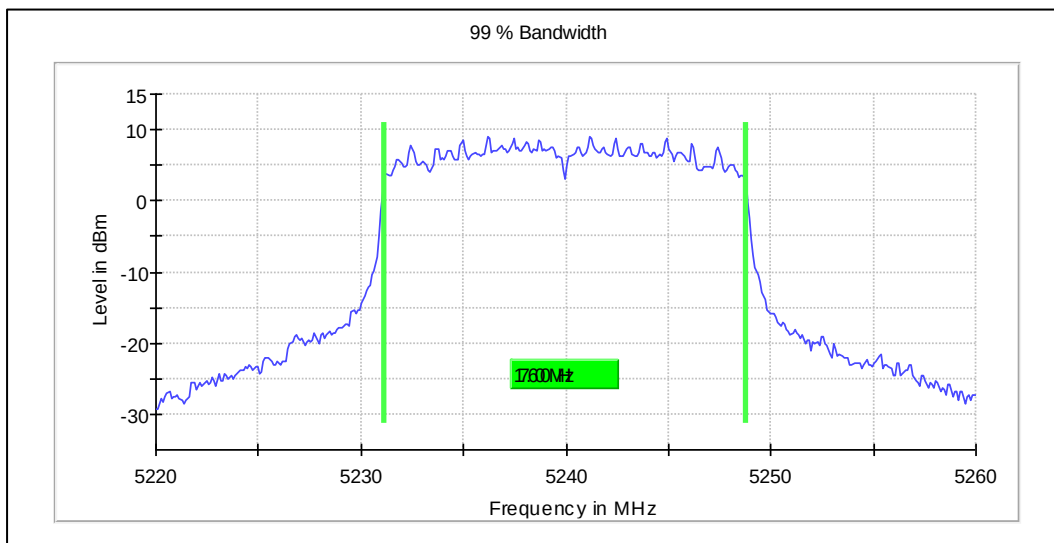
Channel Frequency 5180MHz



Channel Frequency 5180MHz

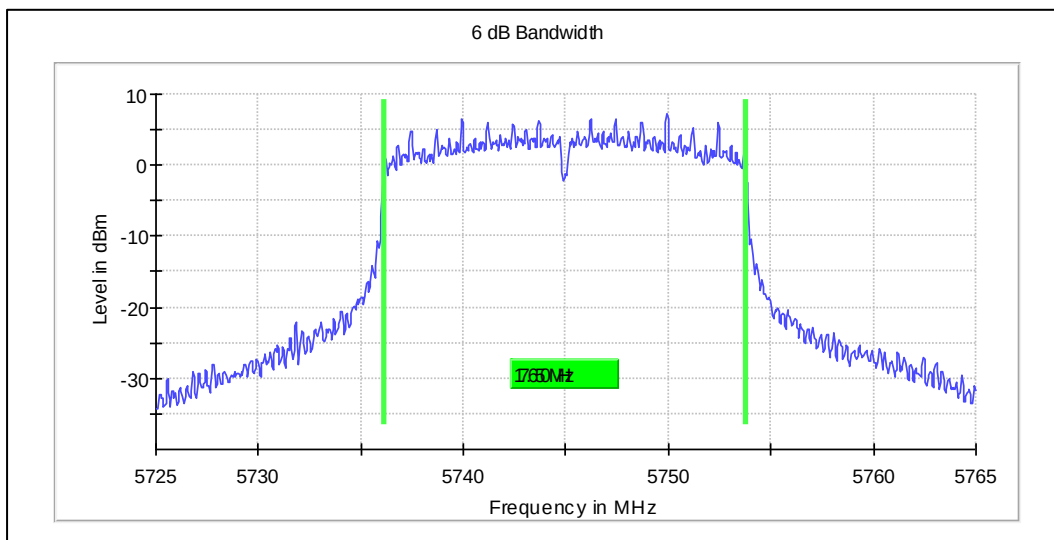


Channel Frequency 5240MHz

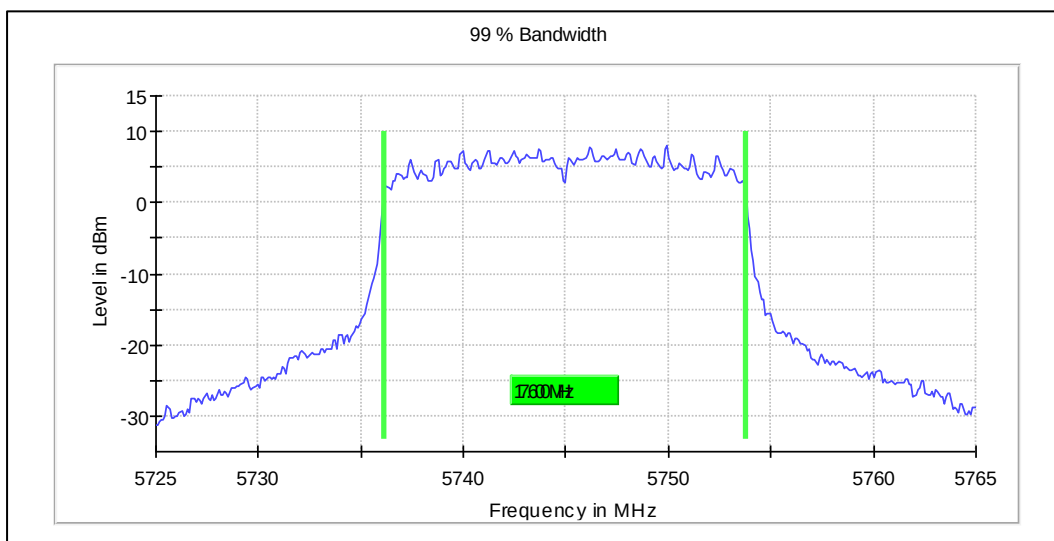


Channel Frequency 5240MHz

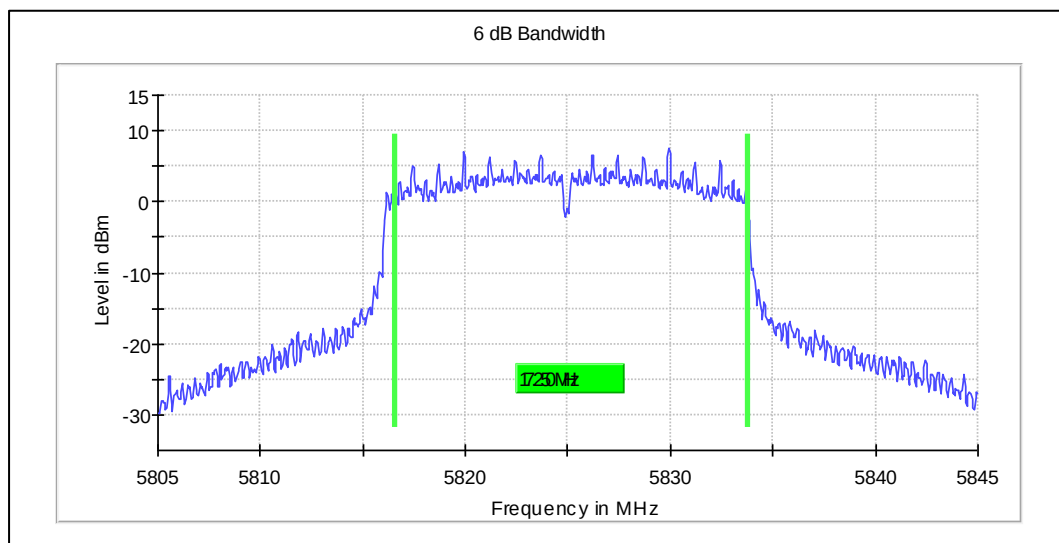
UNII-3



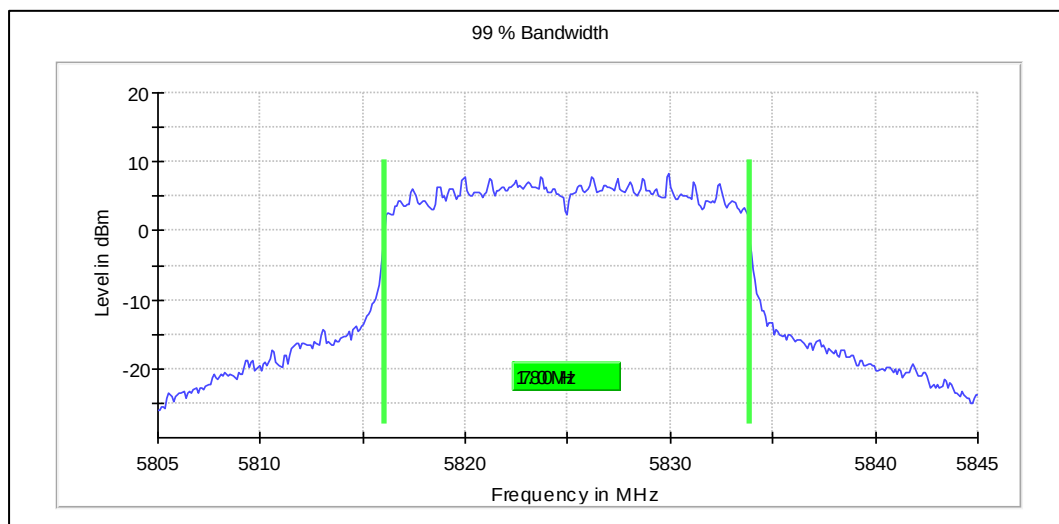
Channel frequency 5745MHz



Channel Frequency 5745MHz

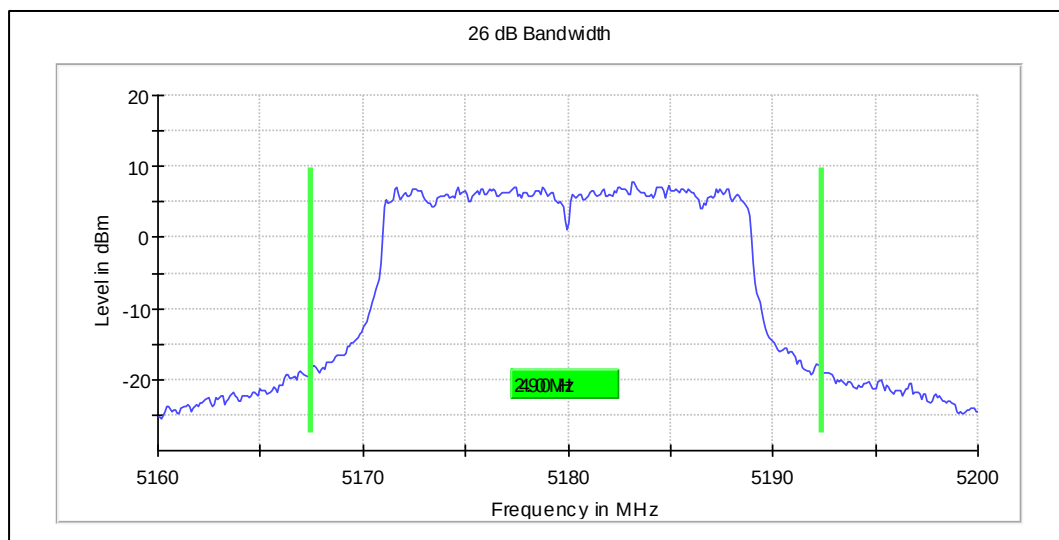


Channel Frequency 5825MHz

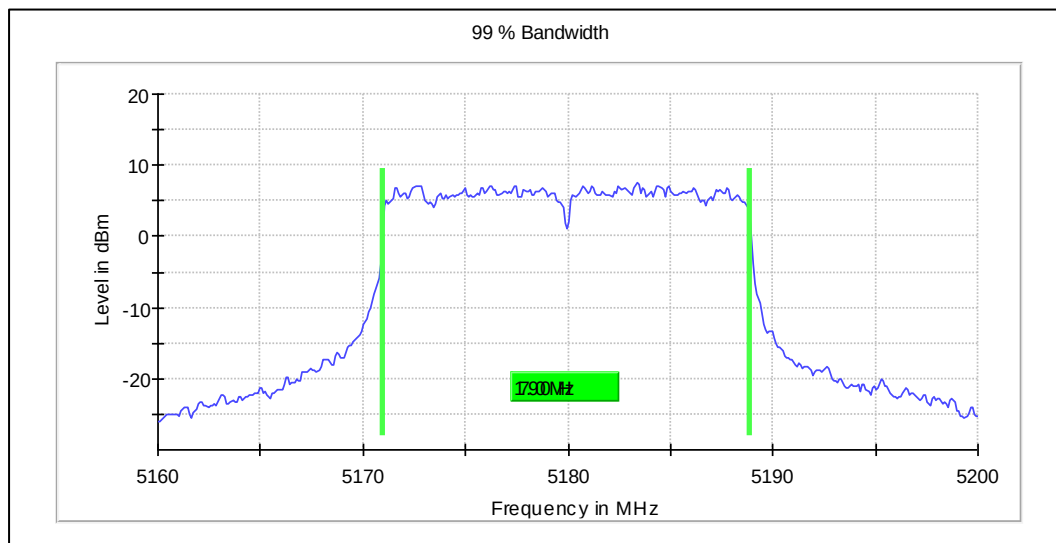


Channel Frequency 5825MHz

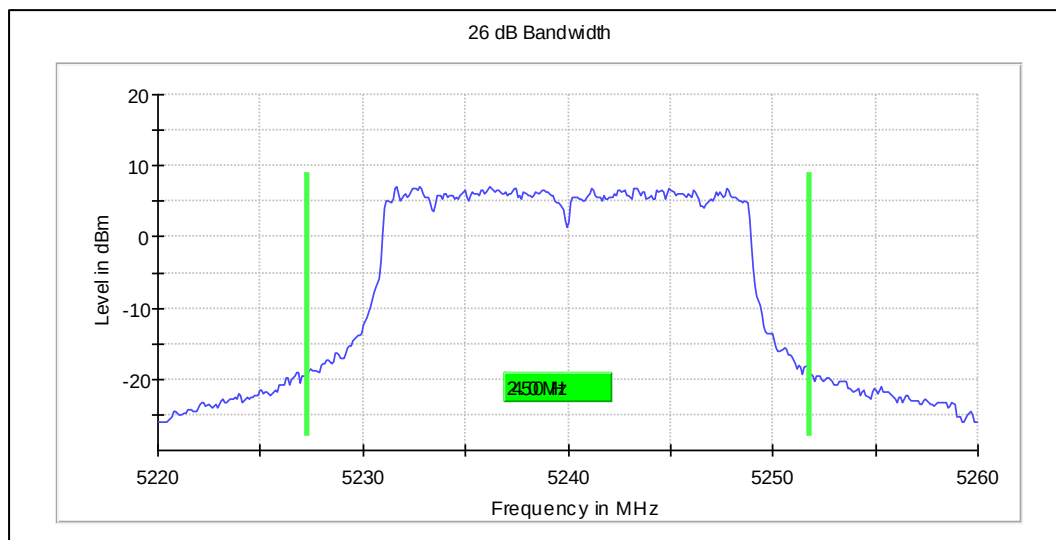
Data Rate: MCS7



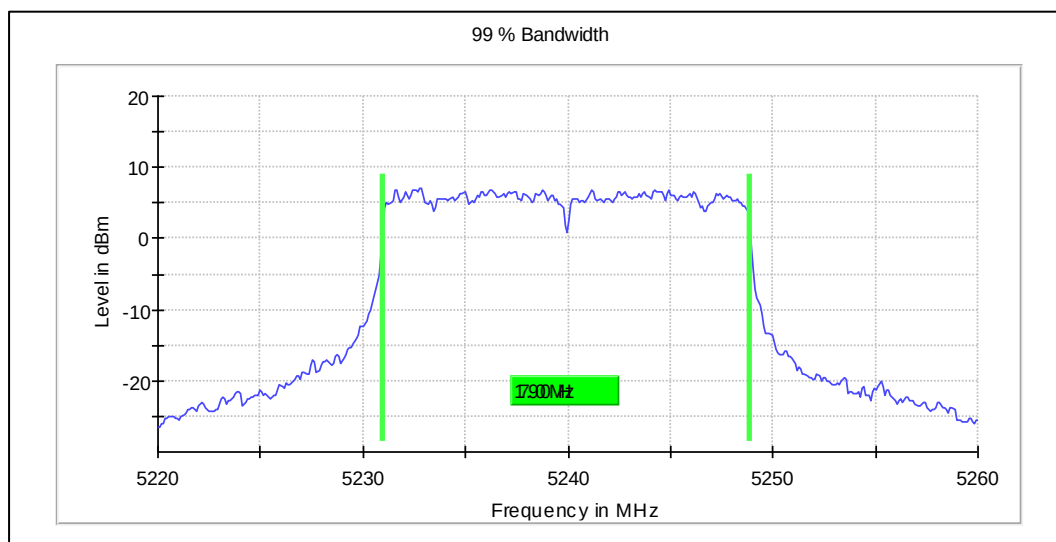
Channel Frequency 5180MHz



Channel Frequency 5180MHz

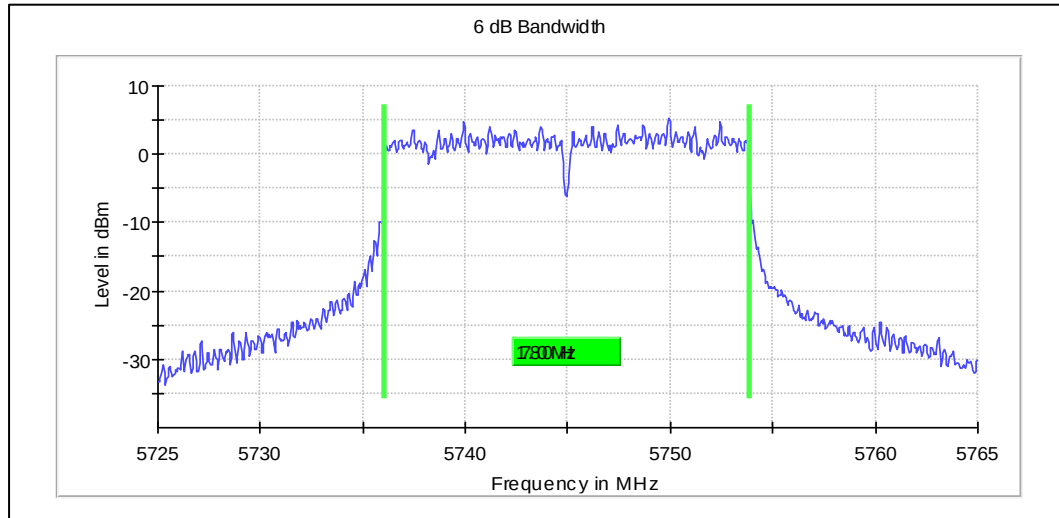


Channel Frequency 5240MHz

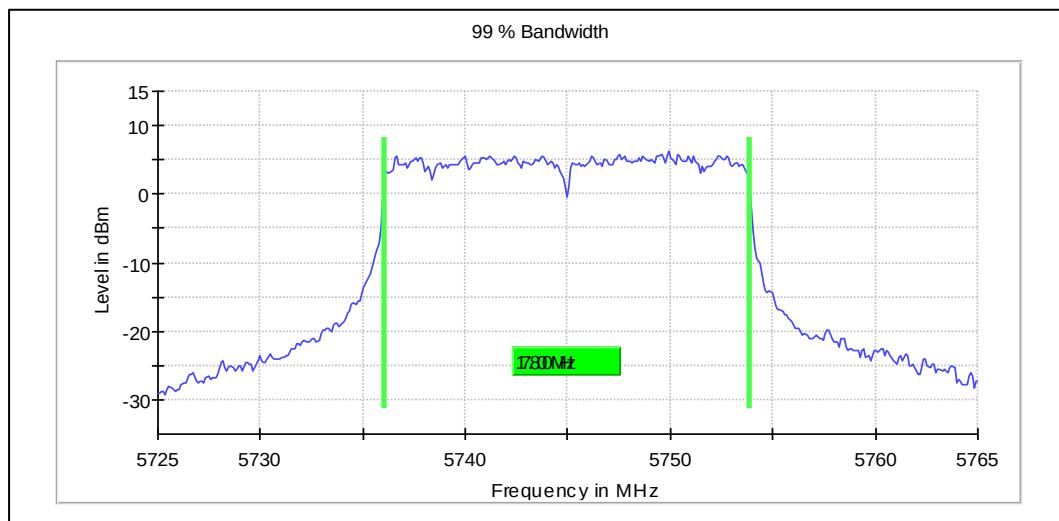


Channel Frequency 5240MHz

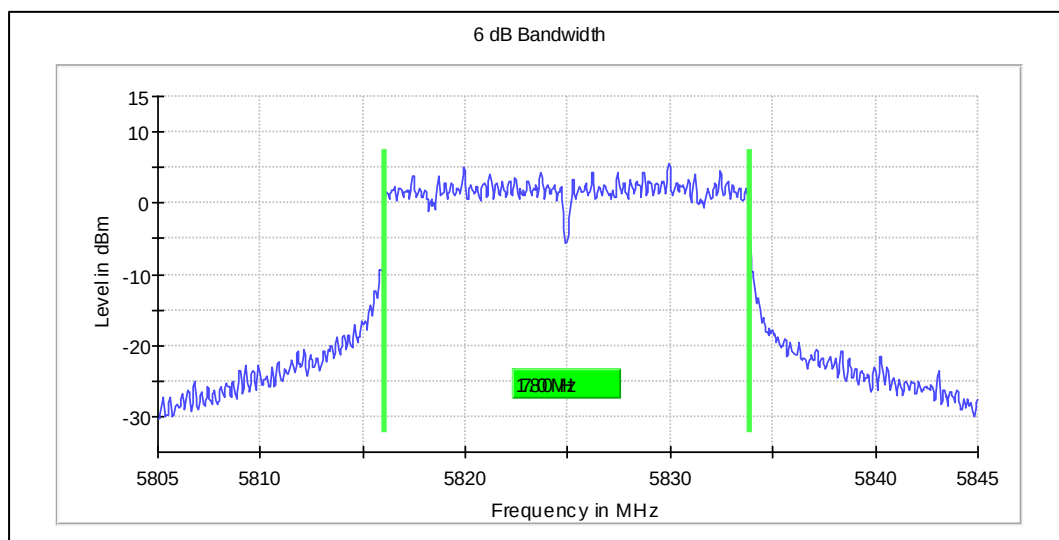
UNII-3



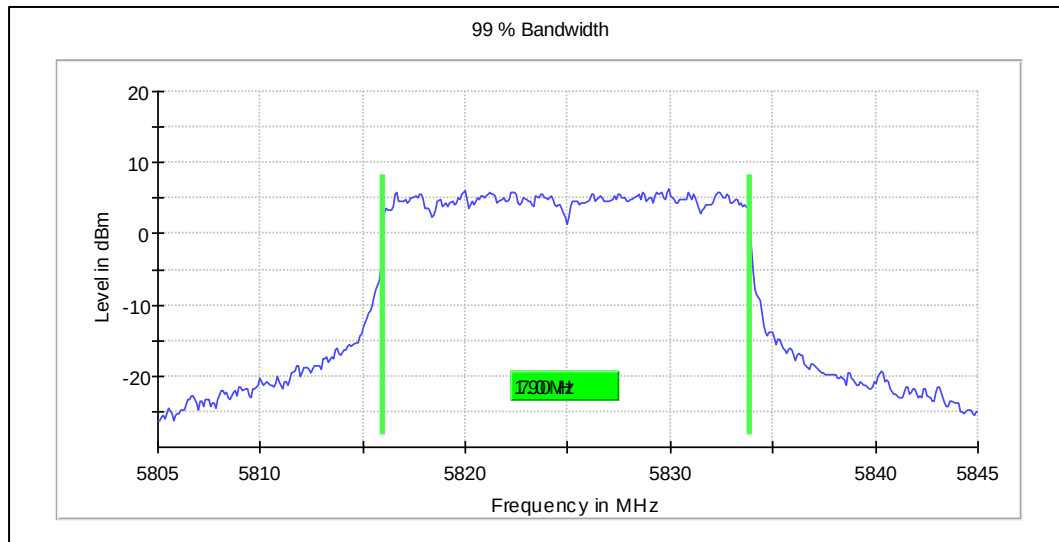
Channel Frequency 5745MHz



Channel Frequency 5745MHz



Channel Frequency 5825MHz



Channel Frequency 5825MHz

Modulation: 802.11ac-VHT20:

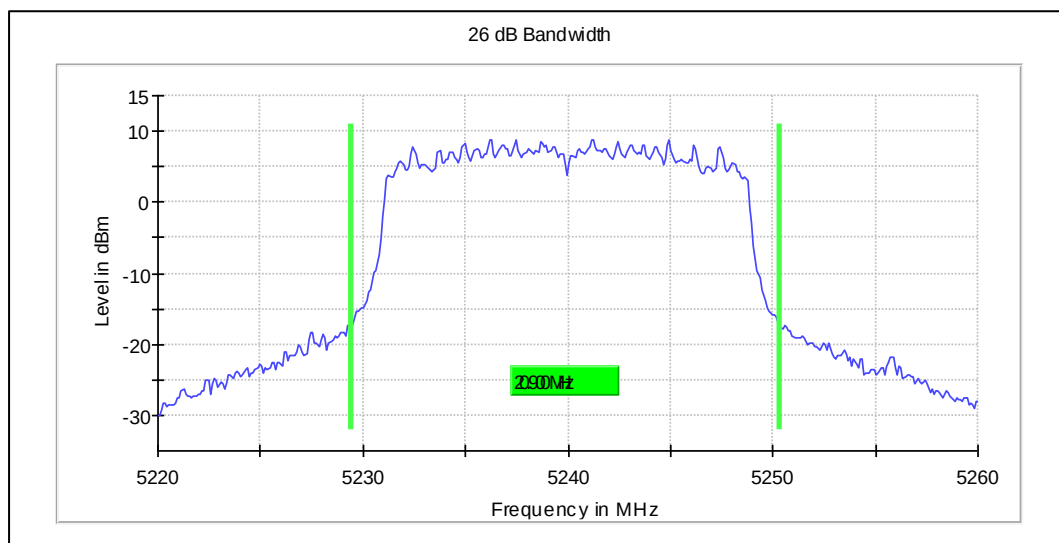
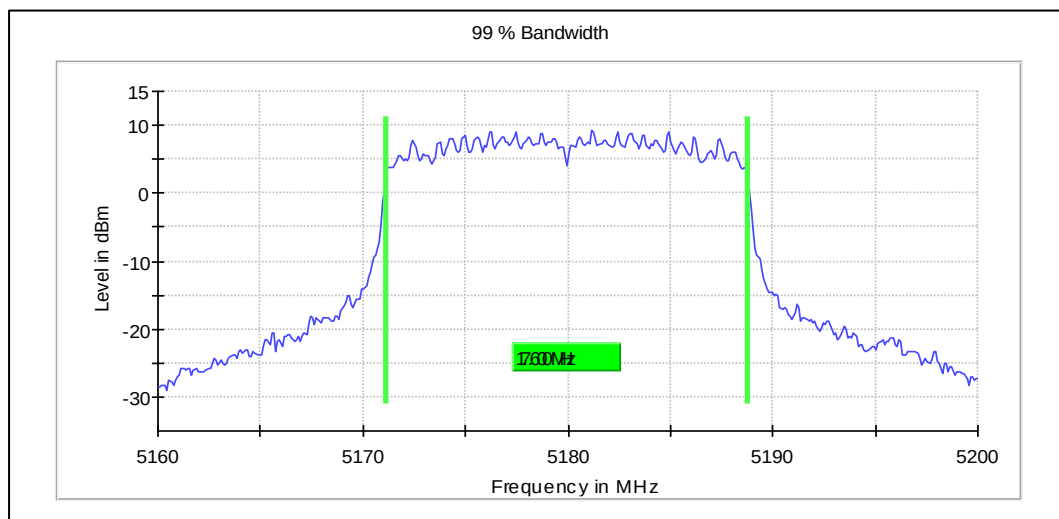
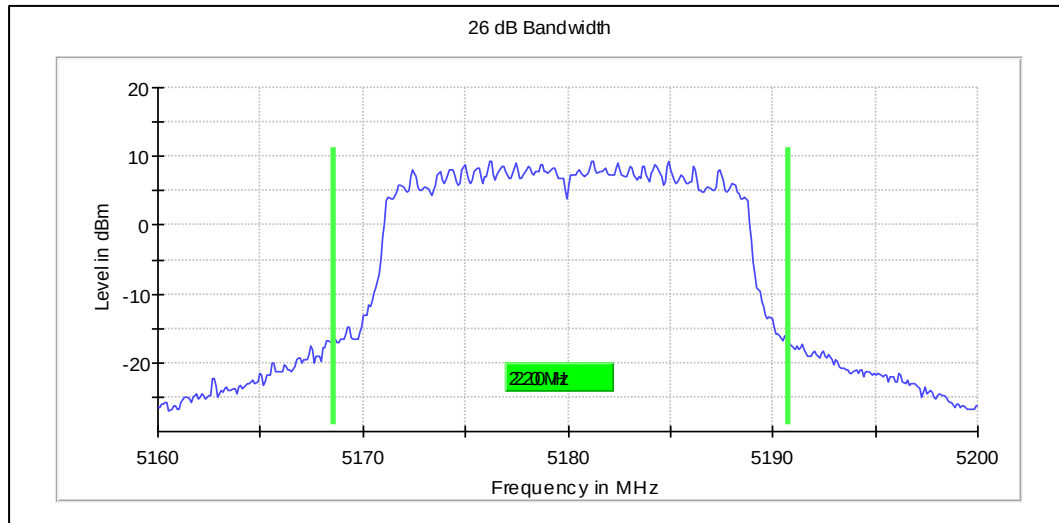
Modulation	Data rate	Measured Frequency (MHz)	26 dB emission bandwidth (MHz)	99% Occupied Bandwidth (MHz)
802.11ac-VHT20: UNII 1	MCS0	5180	22.20	17.60
		5240	20.90	17.60
	MCS9	5180	24.10	17.80
		5240	22.80	17.80

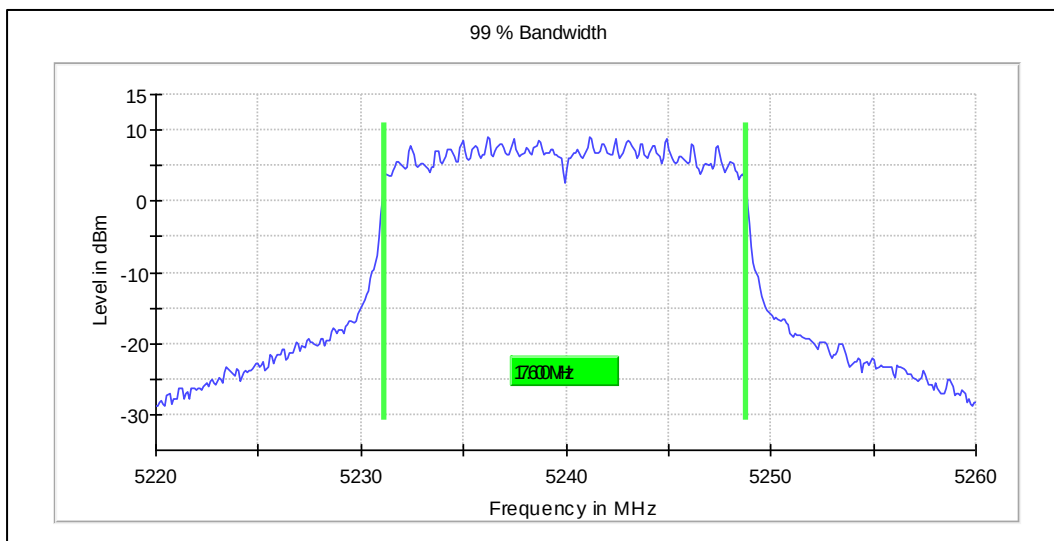
Modulation: 802.11ac-VHT20: UNII 3

Data rate	Measured Frequency (MHz)	6 dB emission bandwidth (MHz)	Minimum Limit (MHz)
MCS0	5745	17.00	0.5
	5825	17.20	0.5
MCS9	5745	17.00	0.5
	5825	17.20	0.5

Data rate	Measured Frequency (MHz)	99% Occupied Bandwidth (MHz)
MCS0	5745	17.60
	5825	17.80
MCS9	5745	17.60
	5825	17.80

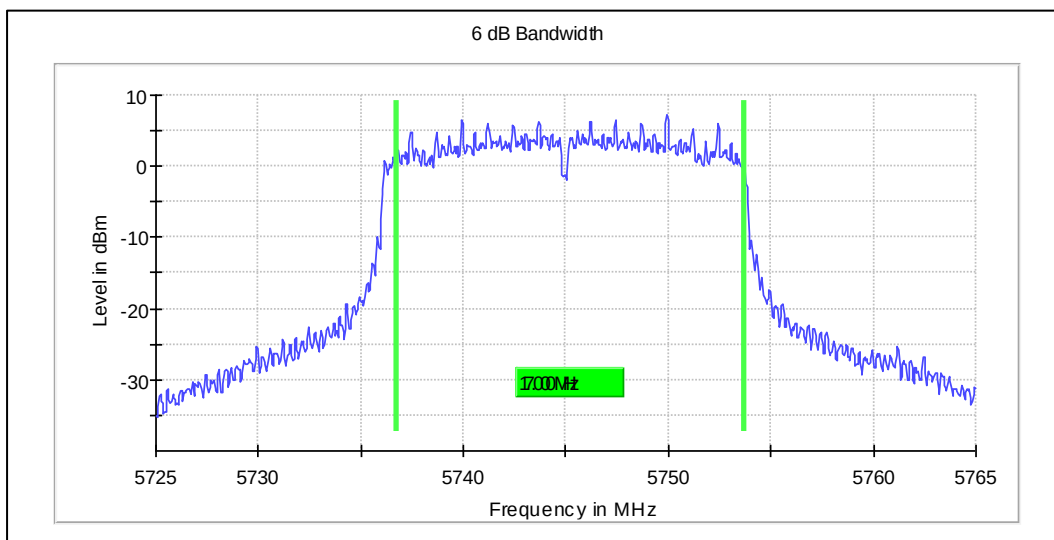
Data Rate: MCS0



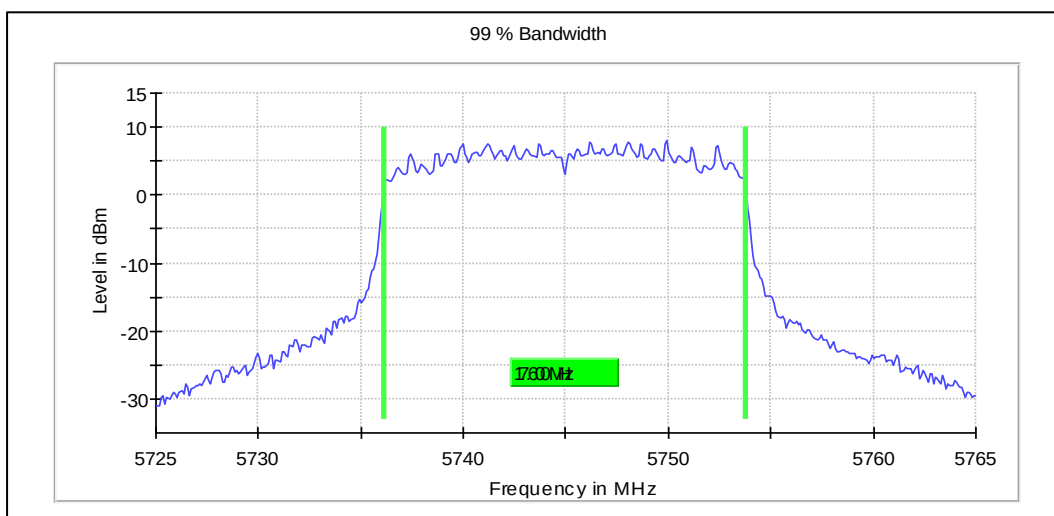


Channel Frequency 5240MHz

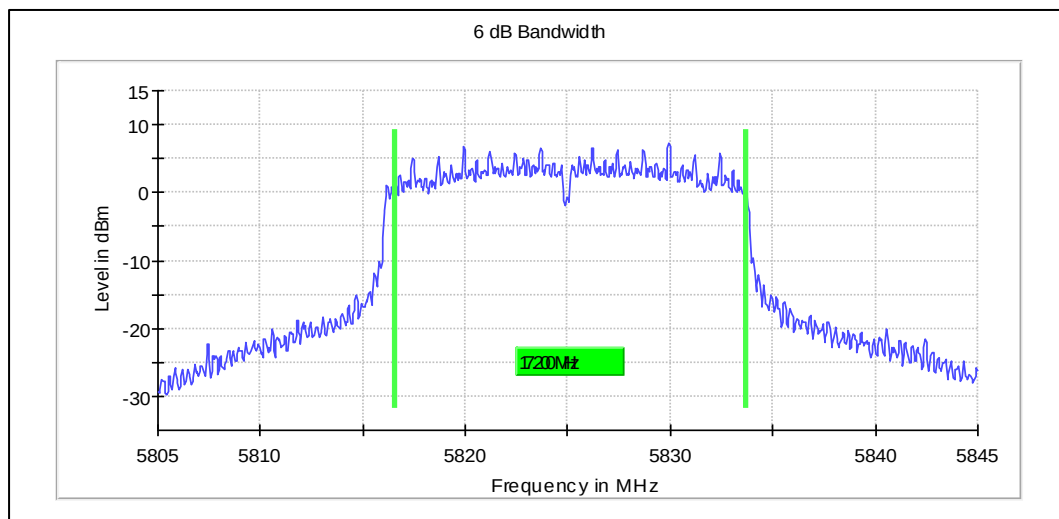
UNII-3



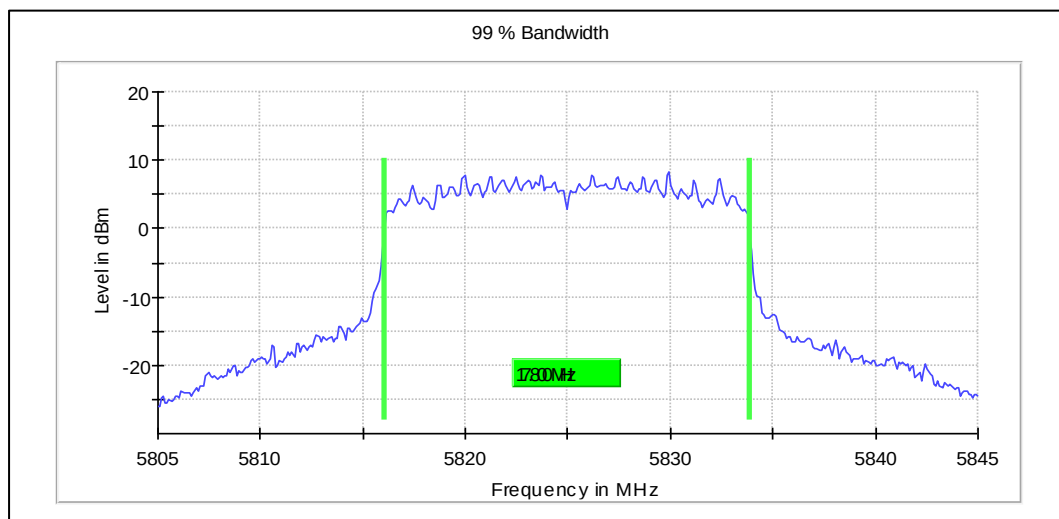
Channel Frequency 5745MHz



Channel Frequency 5745MHz

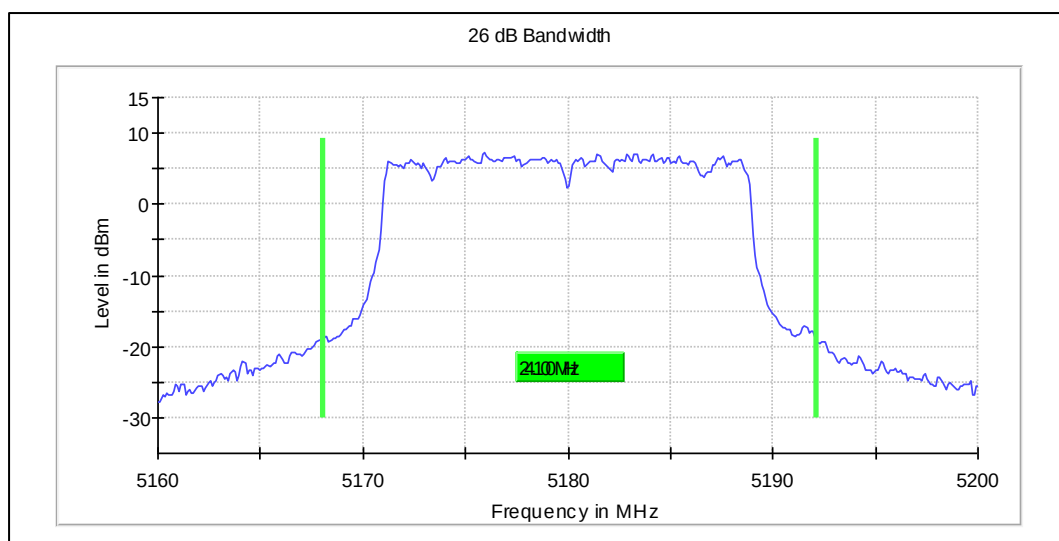


Channel Frequency 5825MHz

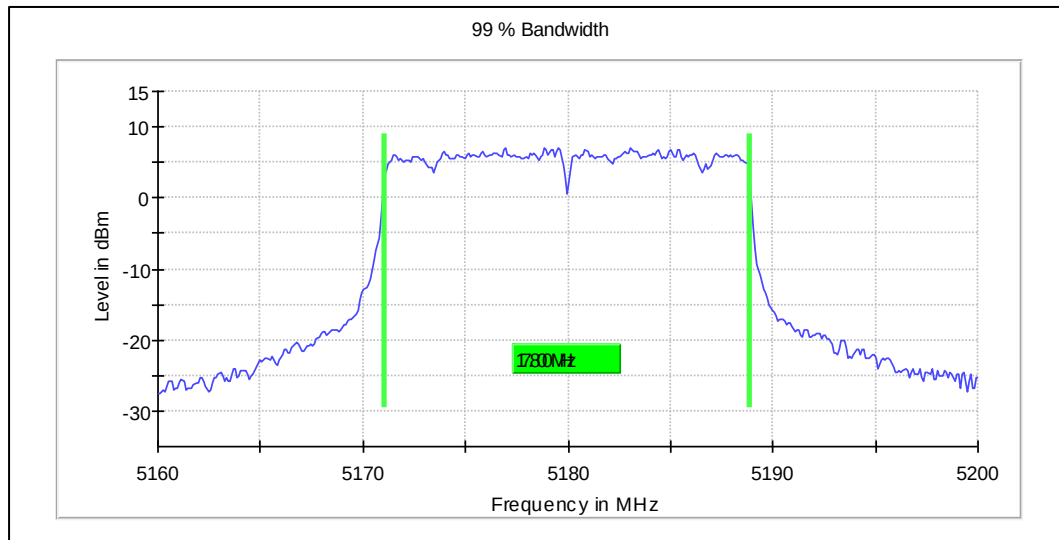


Channel Frequency 5825MHz

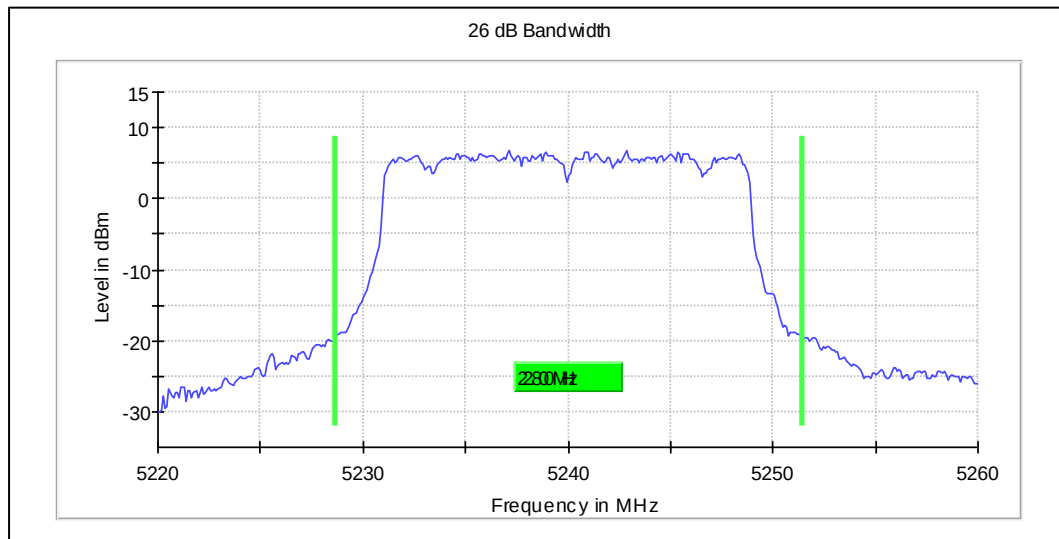
Data Rate: MCS9



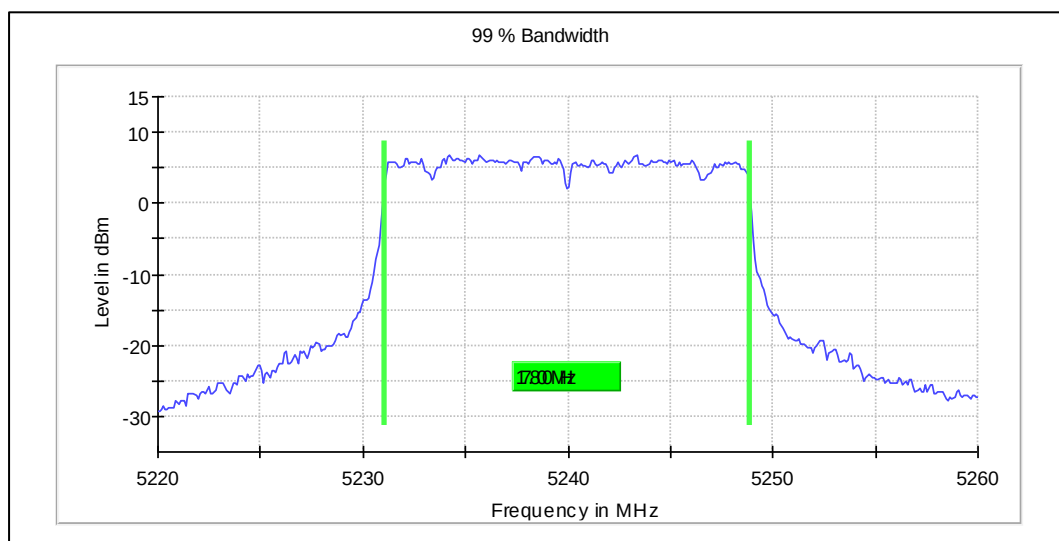
Channel Frequency 5180MHz



Channel Frequency 5180MHz

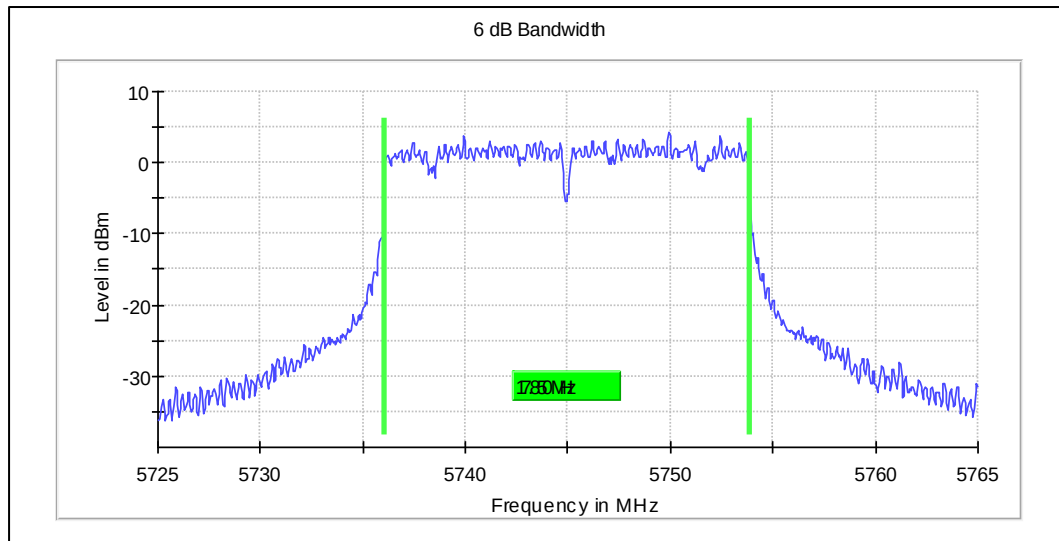


Channel Frequency 5240MHz

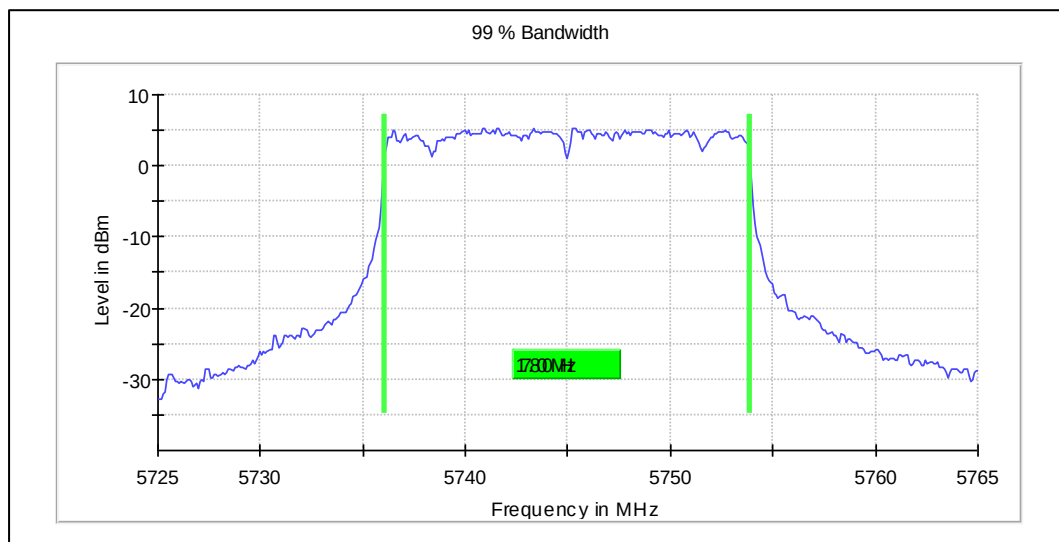


Channel Frequency 5240MHz

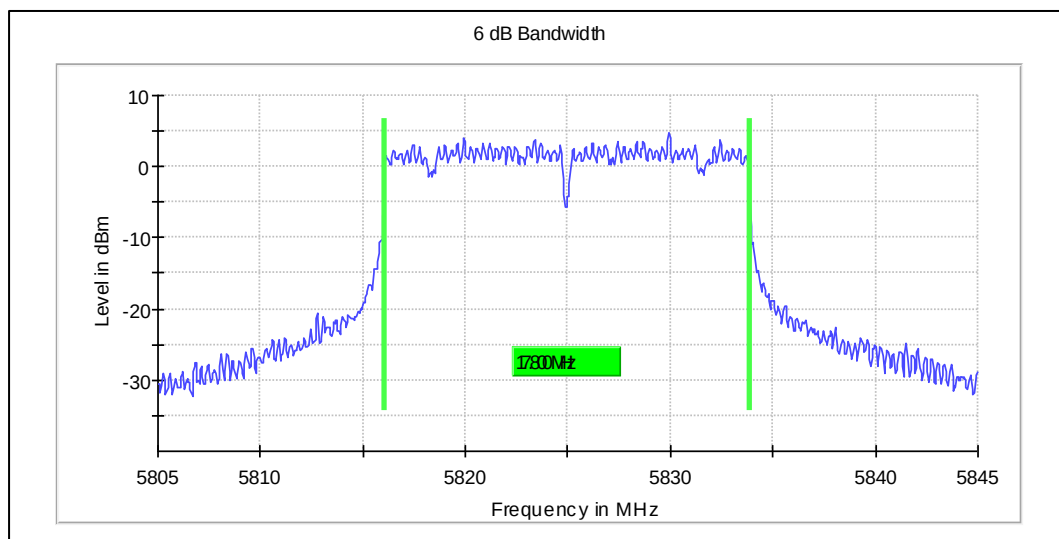
UNII-3



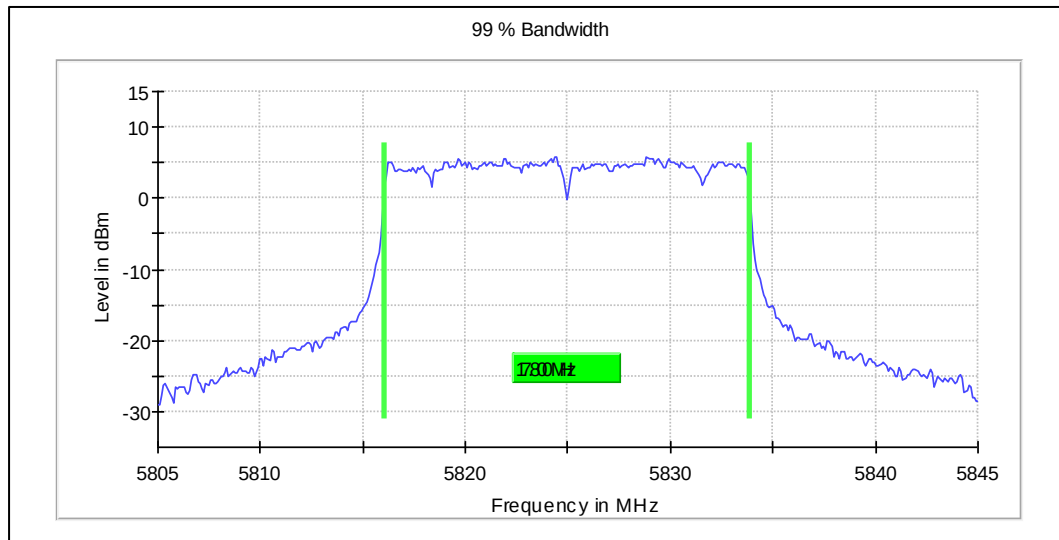
Channel Frequency 5745MHz



Channel Frequency 5745MHz



Channel Frequency 5825MHz



Channel Frequency 5825MHz

Modulation: 802.11ax-HE20:

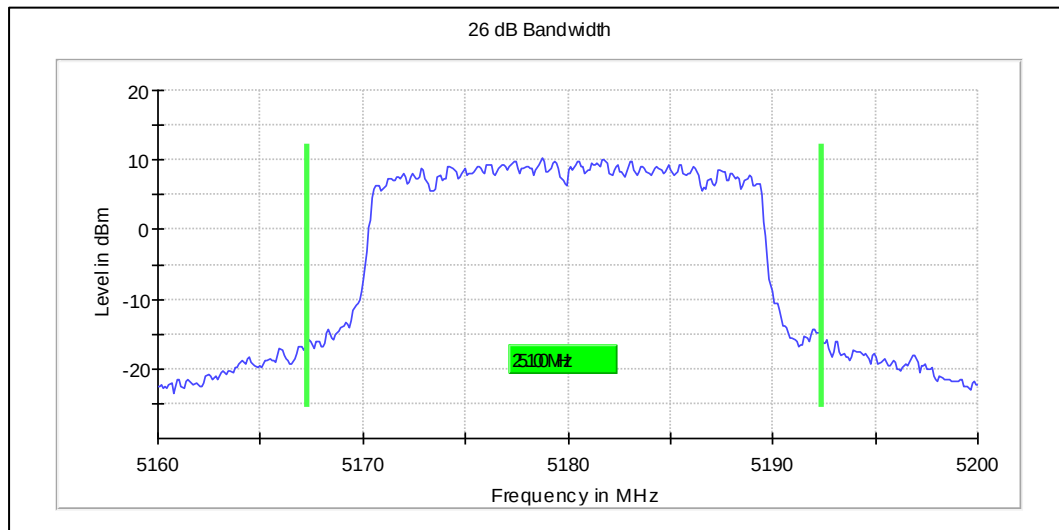
Modulation	Data rate	Measured Frequency (MHz)	26 dB emission bandwidth (MHz)	99% Occupied Bandwidth (MHz)
802.11ax-HE20: UNII 1	MCS0	5180	25.10	19.00
		5240	24.70	19.00
	MCS11	5180	22.30	19.10
		5240	23.00	19.10

Modulation: 802.11ax-HE20: UNII 3

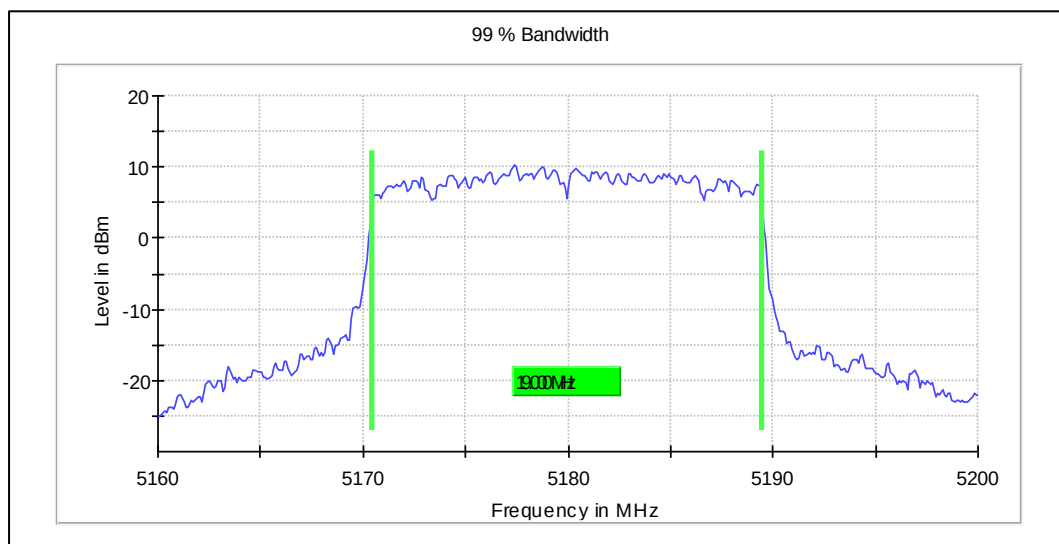
Data rate	Measured Frequency (MHz)	6 dB emission bandwidth (MHz)	Minimum Limit (MHz)
MCS0	5745	17.80	0.5
	5825	17.50	0.5
MCS11	5745	19.20	0.5
	5825	19.20	0.5

Data rate	Measured Frequency (MHz)	99% Occupied Bandwidth (MHz)
MCS0	5745	19.00
	5825	19.10
MCS11	5745	19.10
	5825	19.20

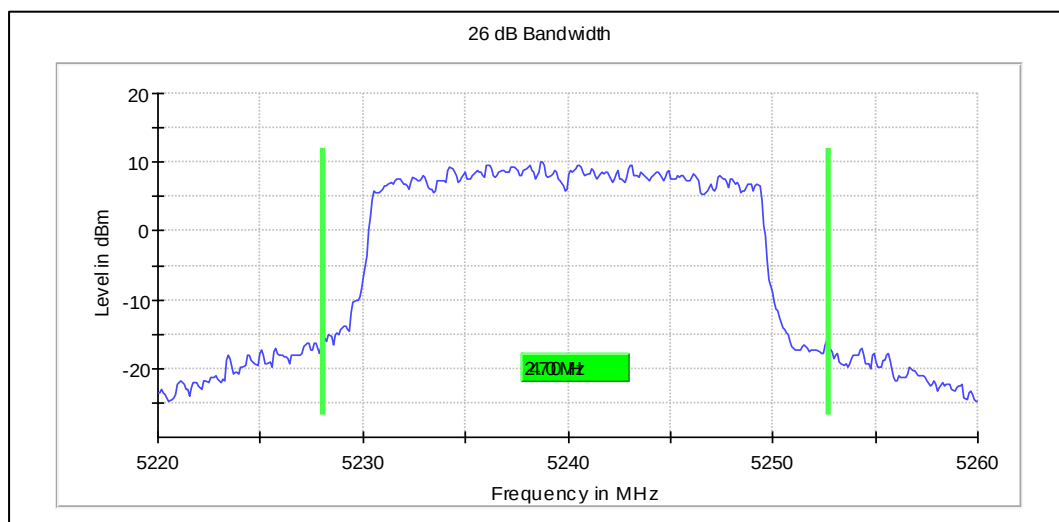
Data Rate: MCS0



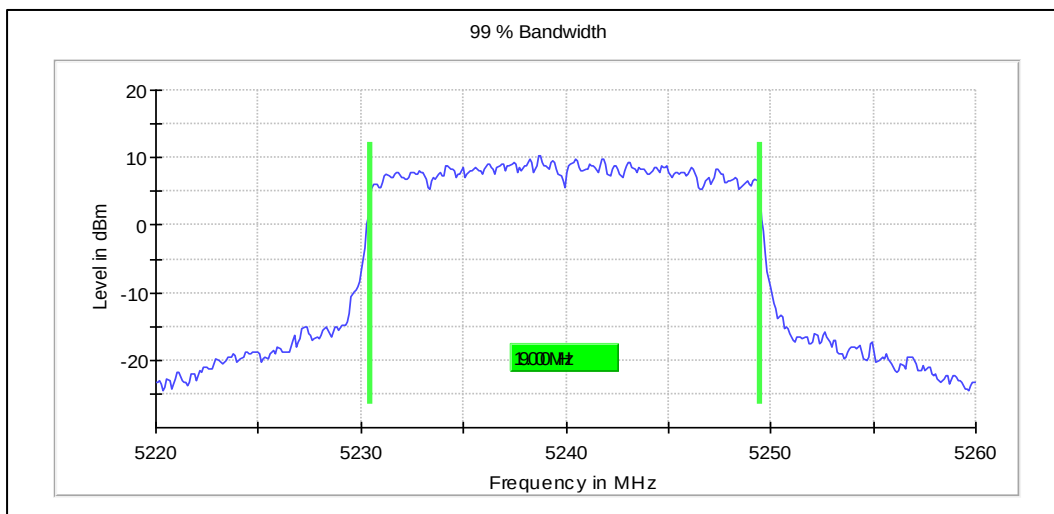
Channel Frequency 5180MHz



Channel Frequency 5180MHz

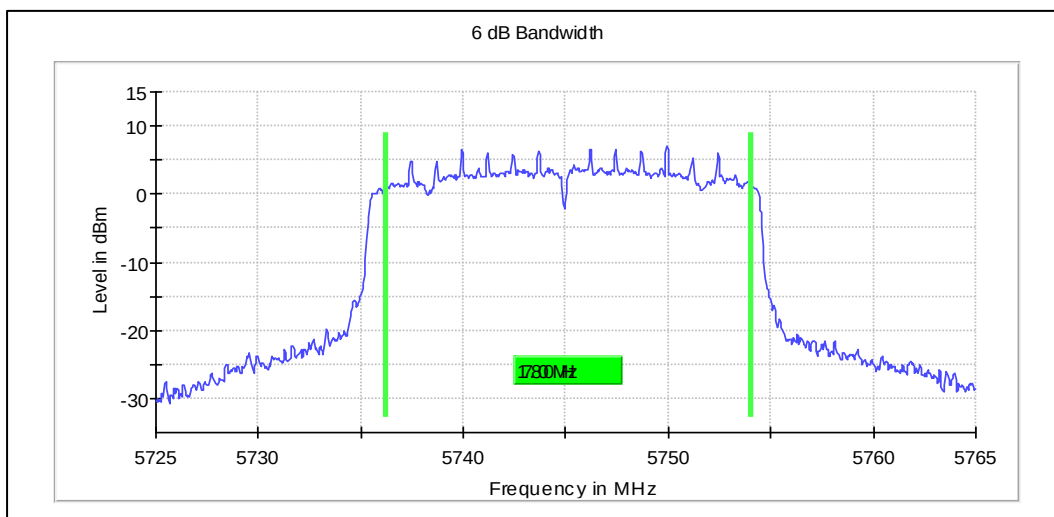


Channel Frequency 5240MHz

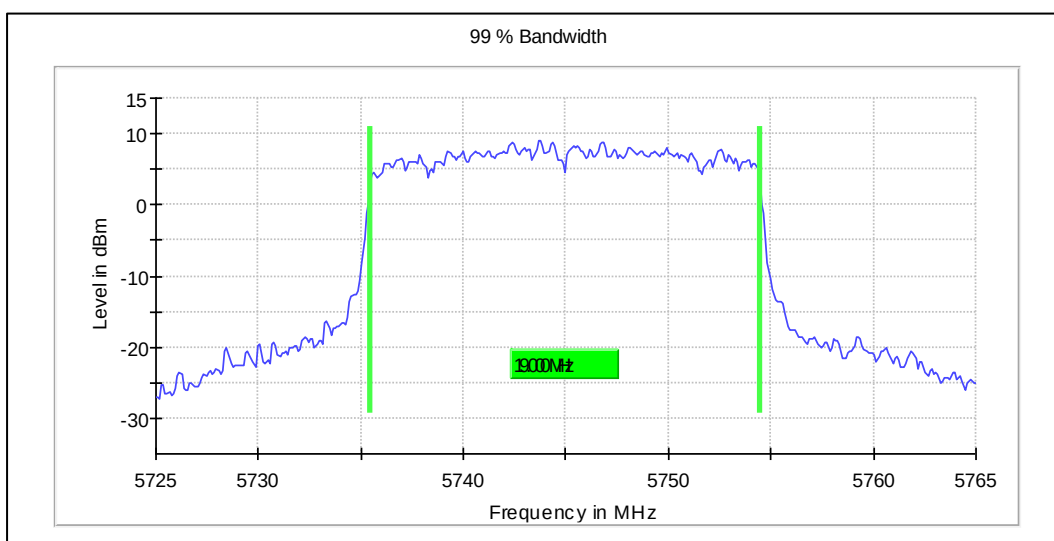


Channel Frequency 5240MHz

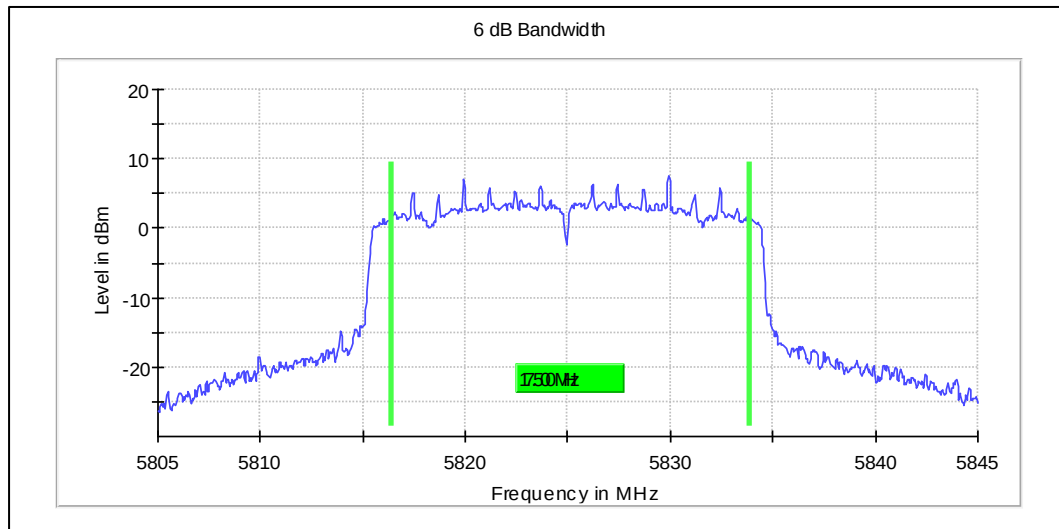
UNII-3



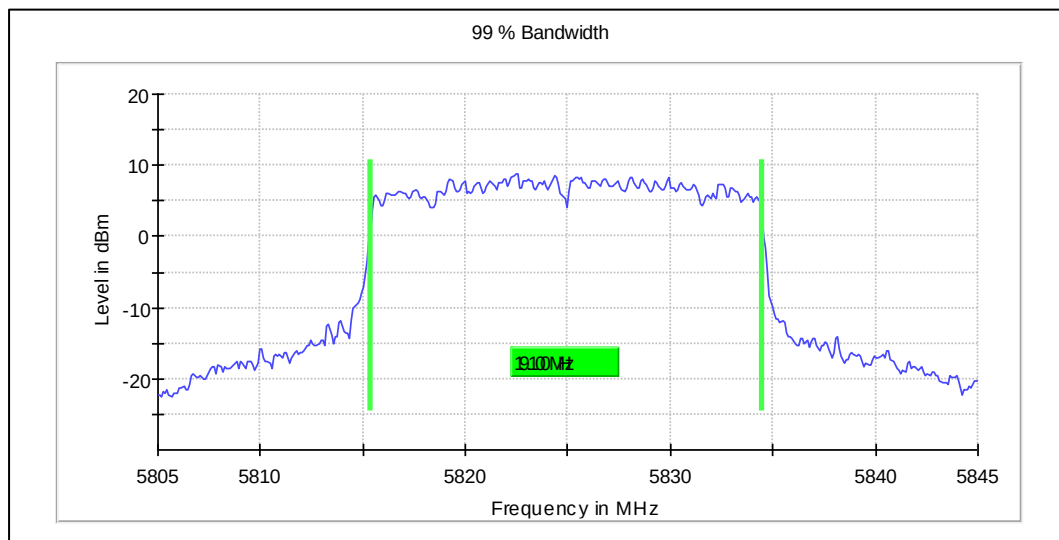
Channel Frequency 5745MHz



Channel Frequency 5745MHz

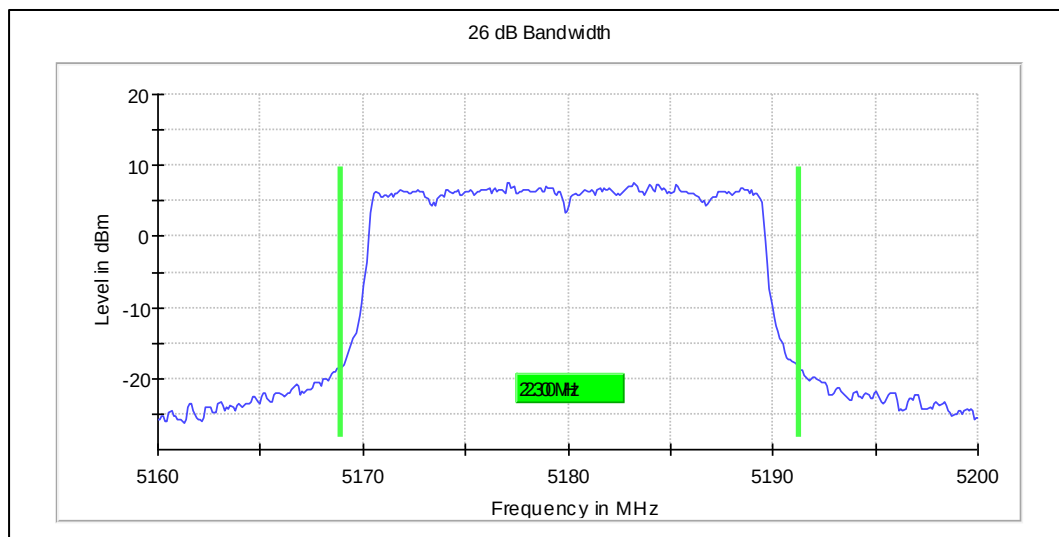


Channel Frequency 5825MHz

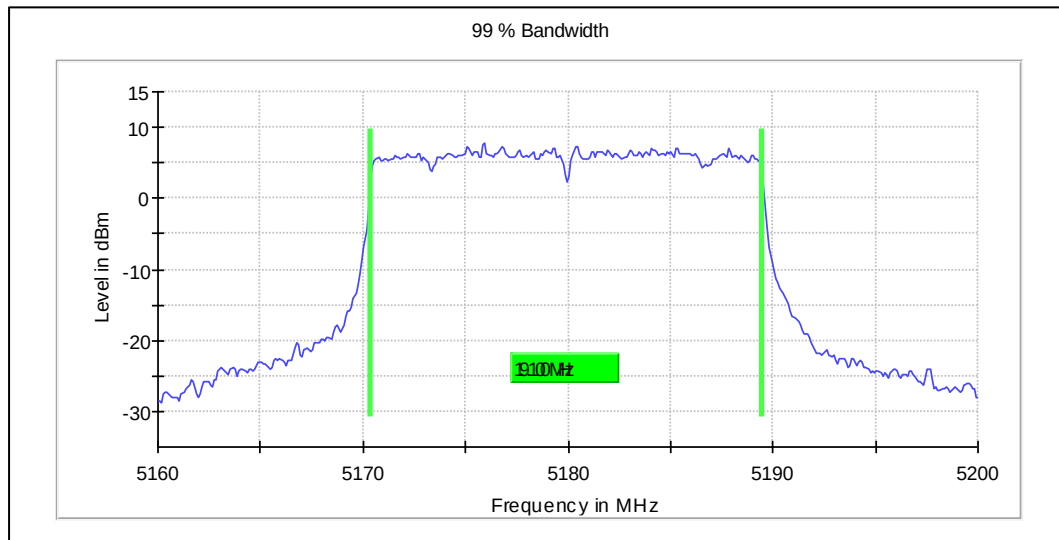


Channel Frequency 5825MHz

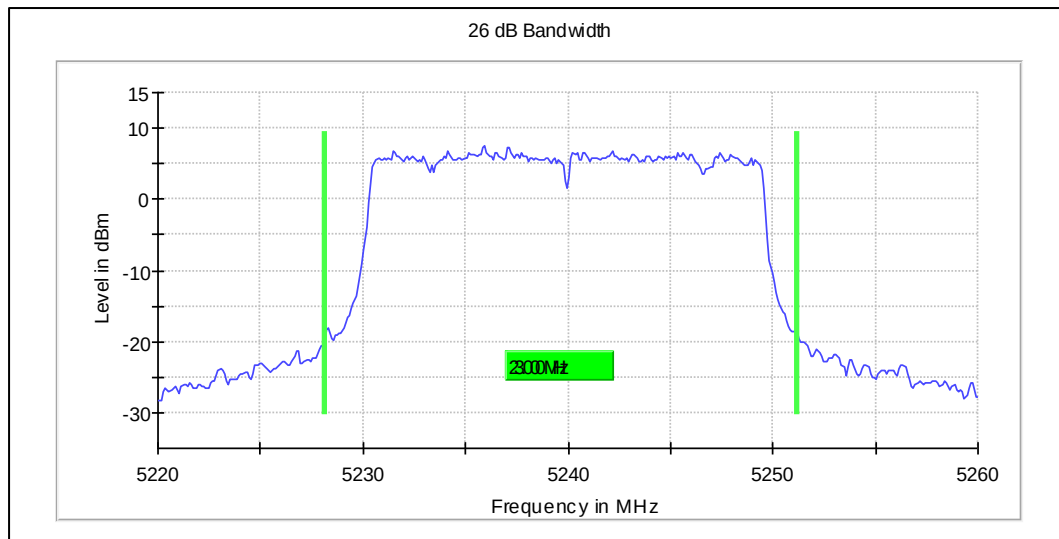
Data Rate: MCS11



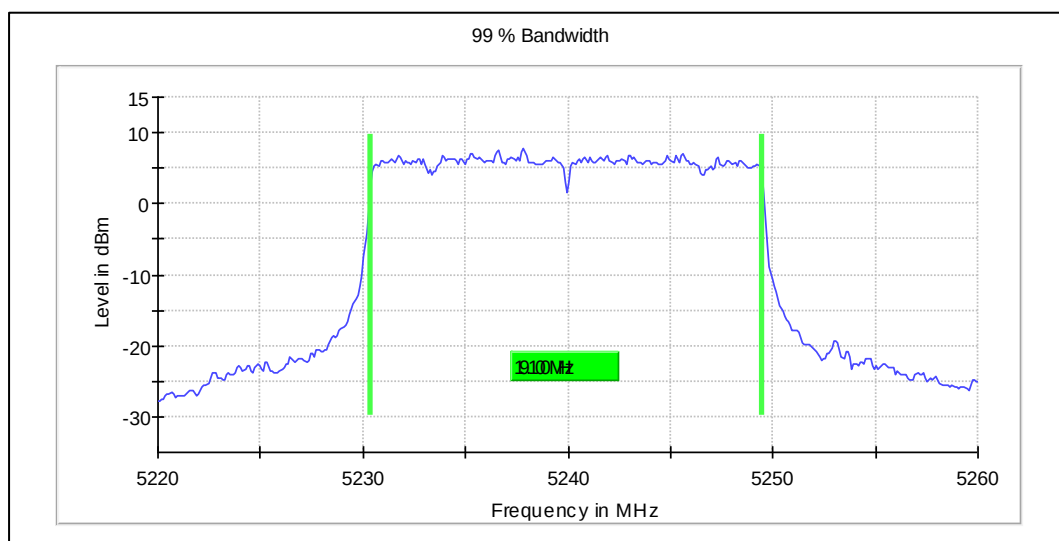
Channel Frequency 5180MHz



Channel Frequency 5180MHz

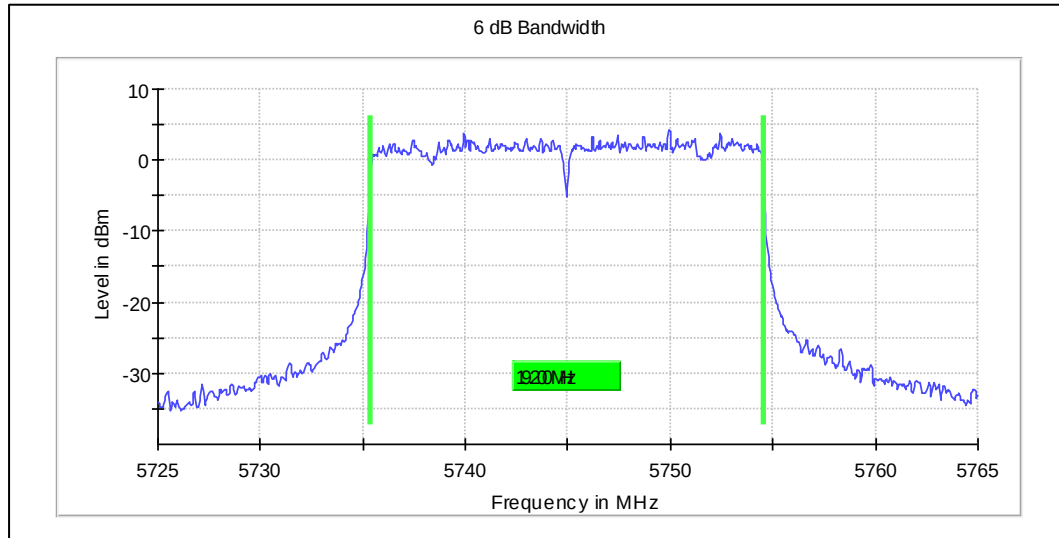


Channel Frequency 5240MHz

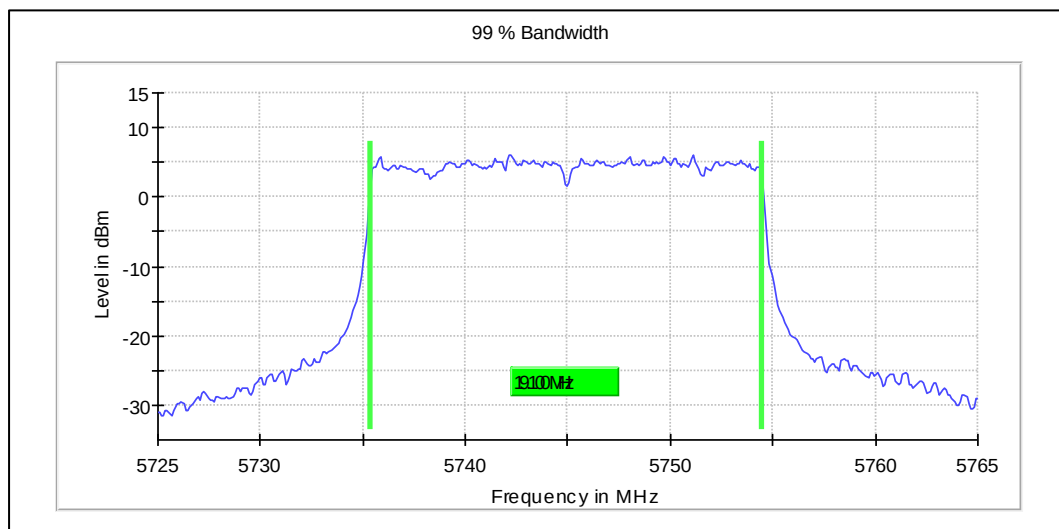


Channel Frequency 5240MHz

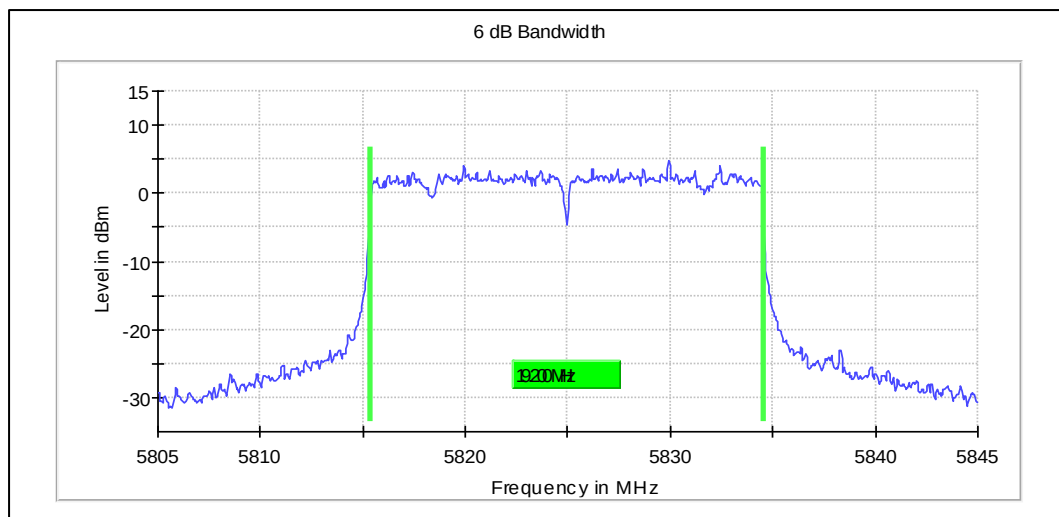
UNII-3



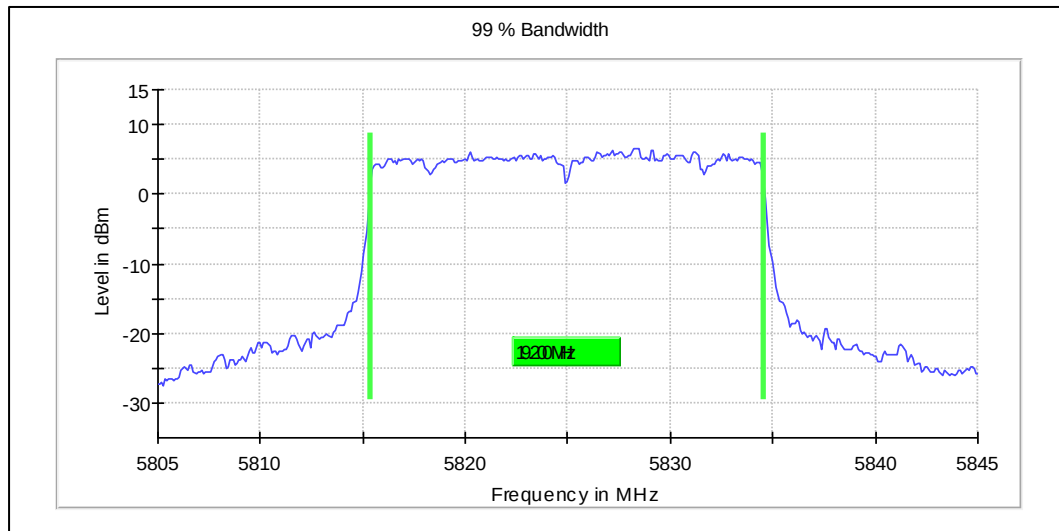
Channel Frequency 5745MHz



Channel Frequency 5745MHz



Channel Frequency 5825MHz



Channel Frequency 5825MHz

Modulation: 802.11n-HT40:

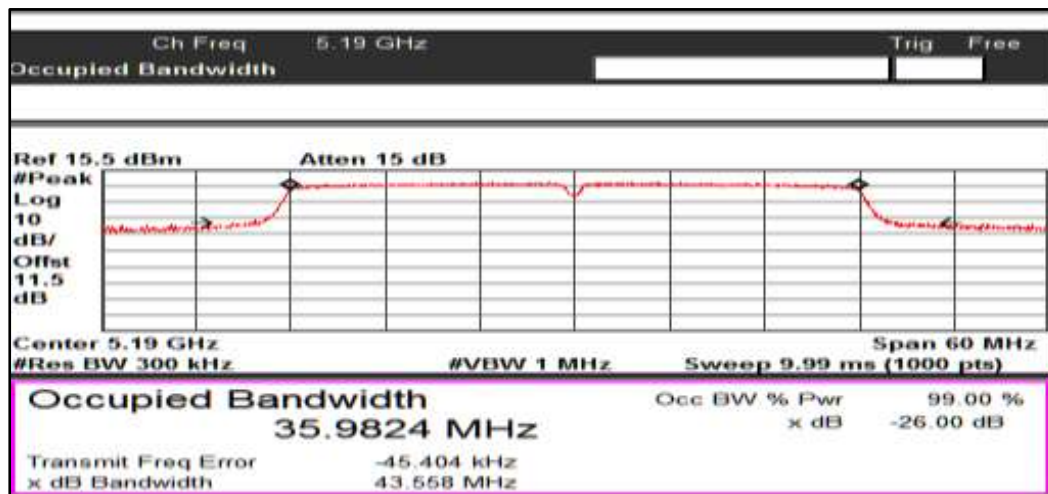
Modulation	Data rate	Measured Frequency (MHz)	26 dB emission bandwidth (MHz)	99% Occupied Bandwidth (MHz)
802.11n-HT40: UNII 1	MCS0	5190	43.55	36.25
		5230	44.99	36.25
	MCS7	5190	46.97	36.75
		5230	46.09	37.00

Modulation: 802.11n-HT40: UNII 3

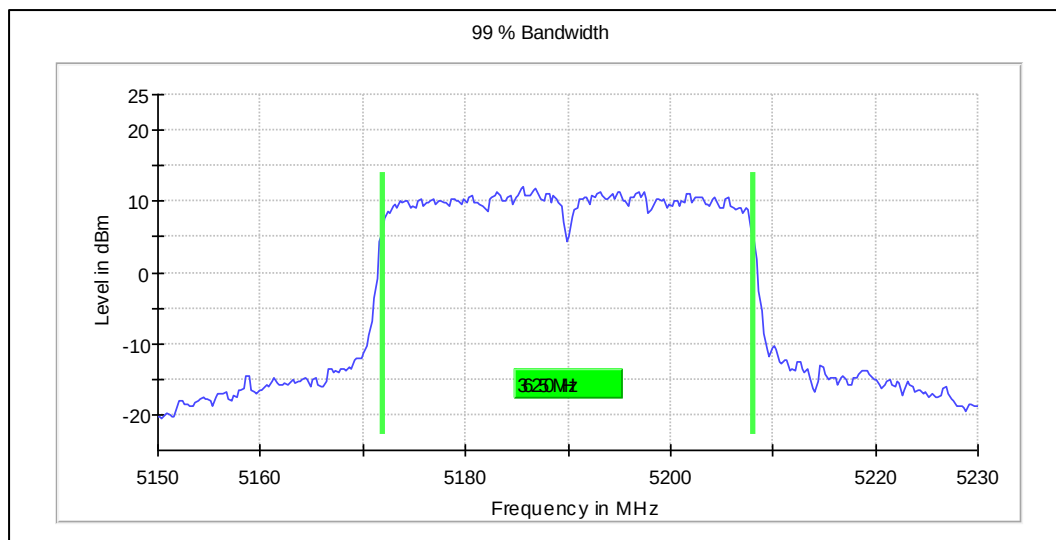
Data rate	Measured Frequency (MHz)	6 dB emission bandwidth (MHz)	Minimum Limit (MHz)
MCS0	5755	35.45	0.5
	5795	35.60	0.5
MCS7	5755	36.55	0.5
	5795	36.55	0.5

Data rate	Measured Frequency (MHz)	99% Occupied Bandwidth (MHz)
MCS0	5755	36.25
	5795	36.50
MCS7	5755	36.75
	5795	37.00

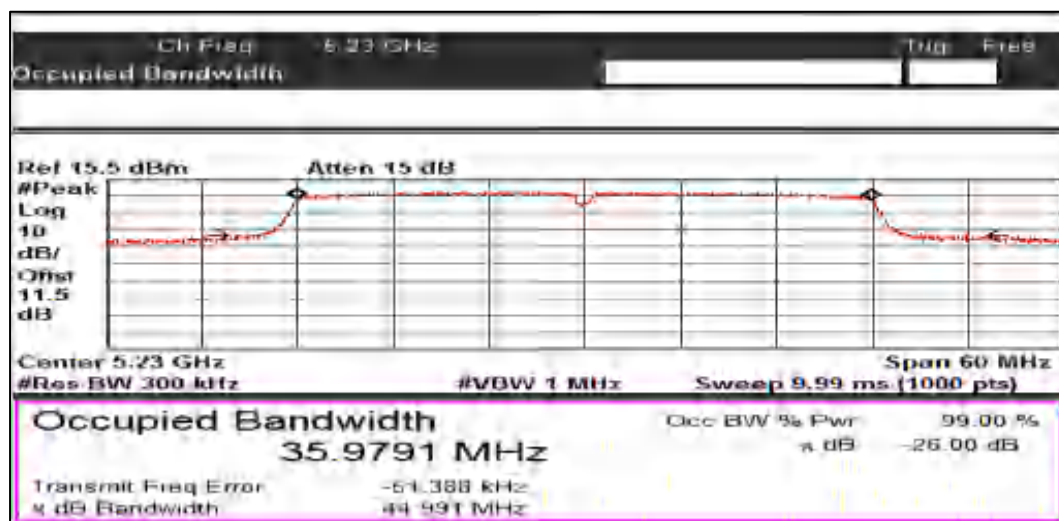
Data Rate: MCS0



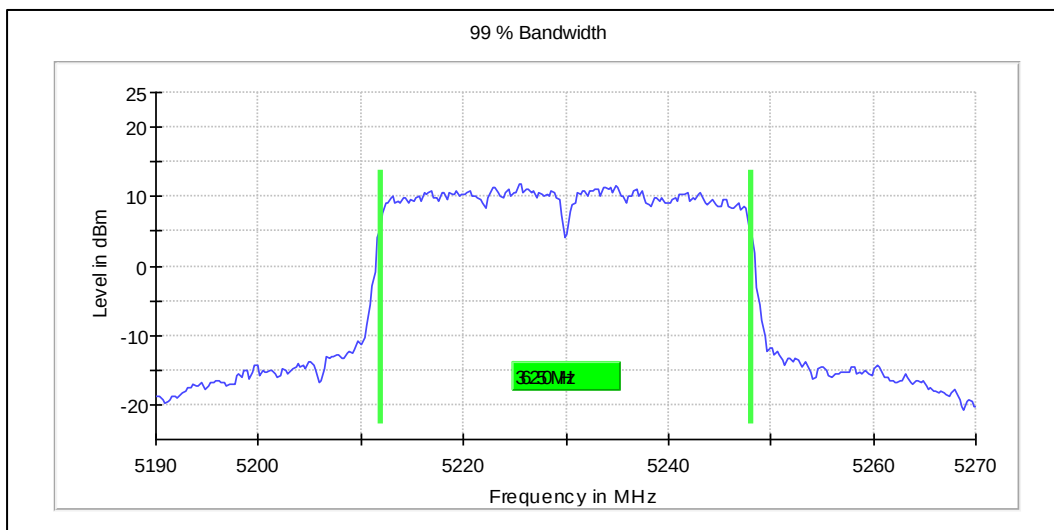
Channel Frequency 5190MHz



Channel Frequency 5190MHz

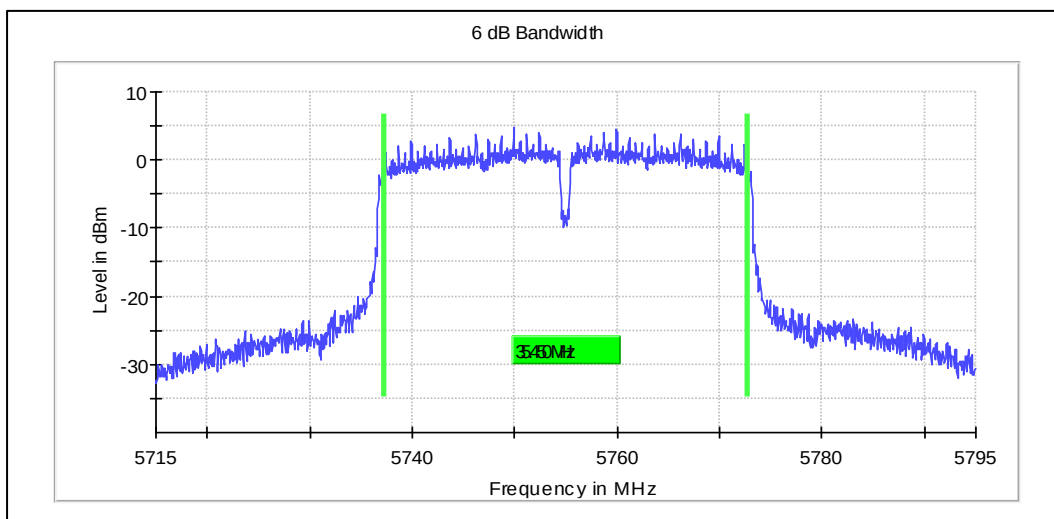


Channel Frequency 5230MHz

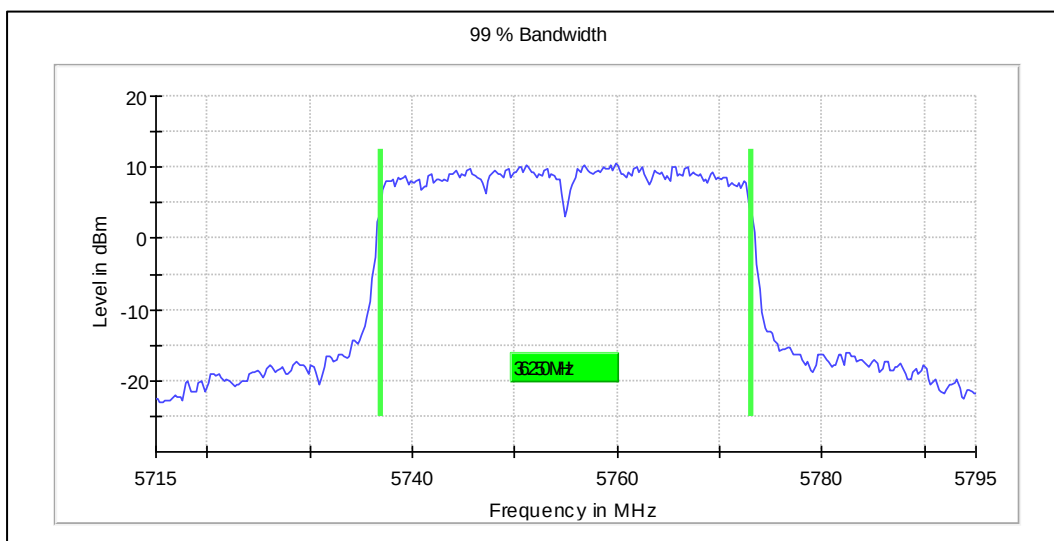


Channel Frequency 5230MHz

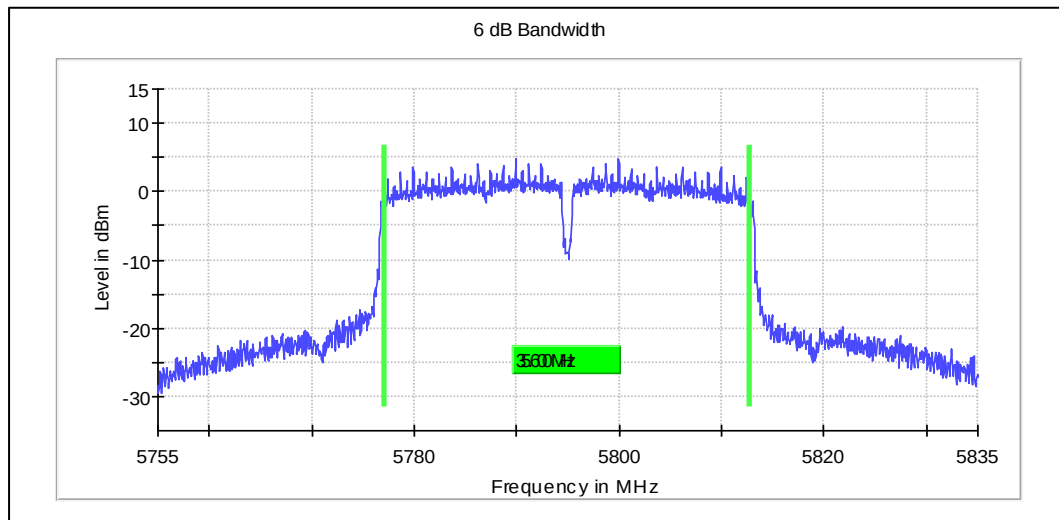
UNII-3



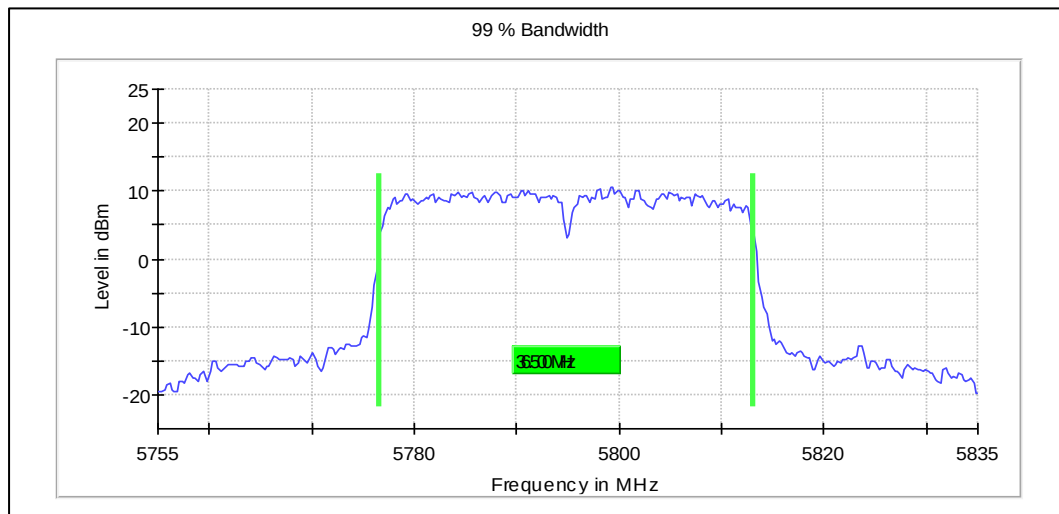
Channel Frequency 5745MHz



Channel Frequency 5745MHz

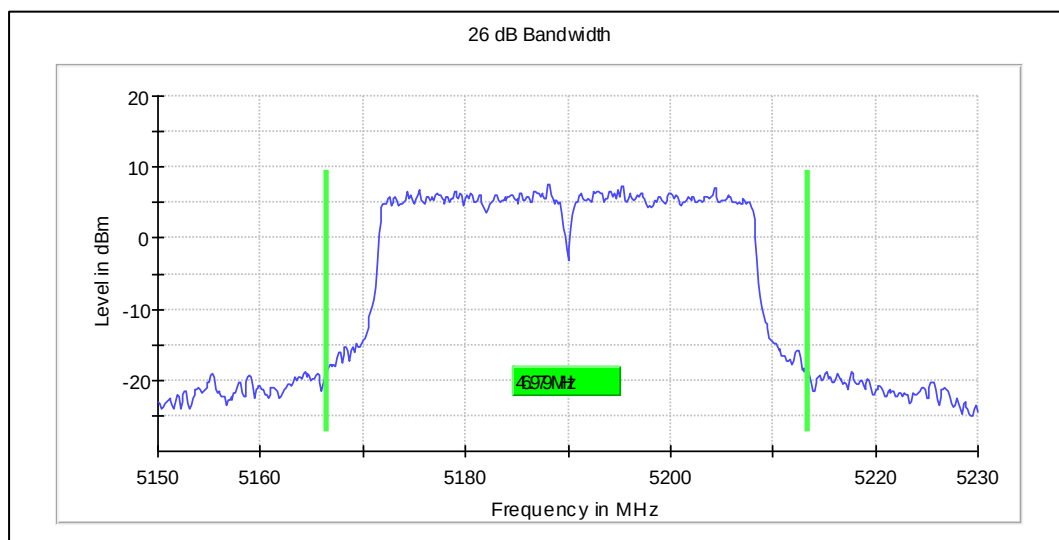


Channel Frequency 5795MHz

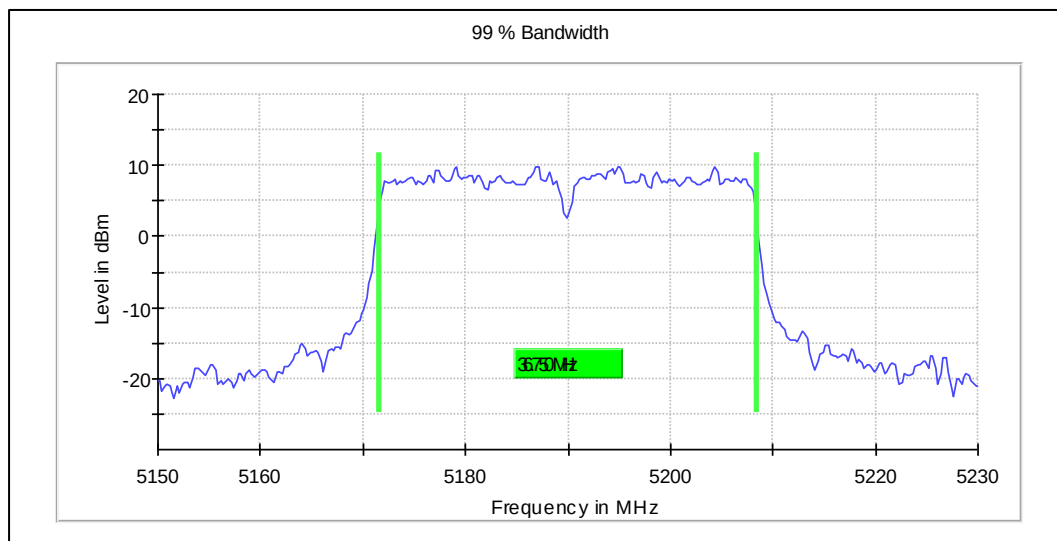


Channel Frequency 5795MHz

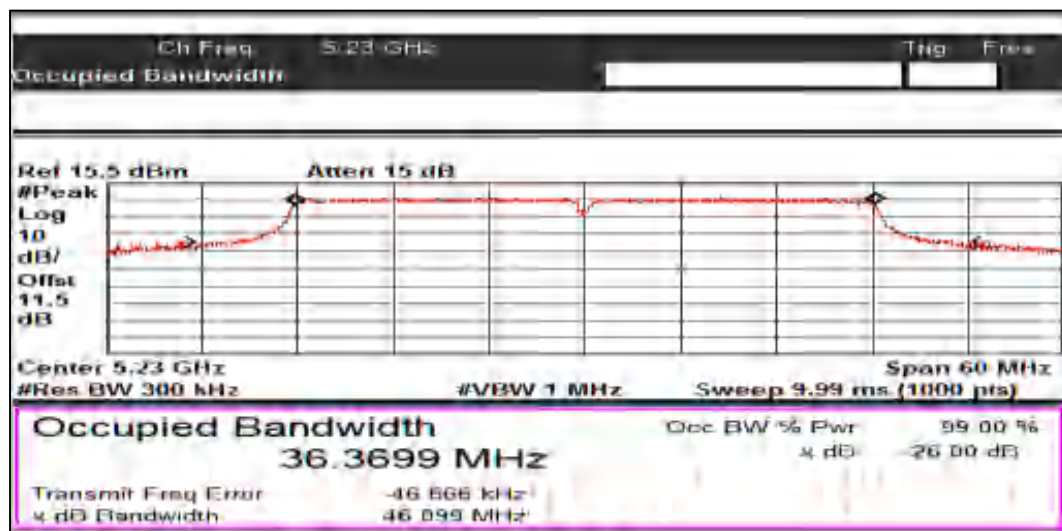
Data Rate: MCS7



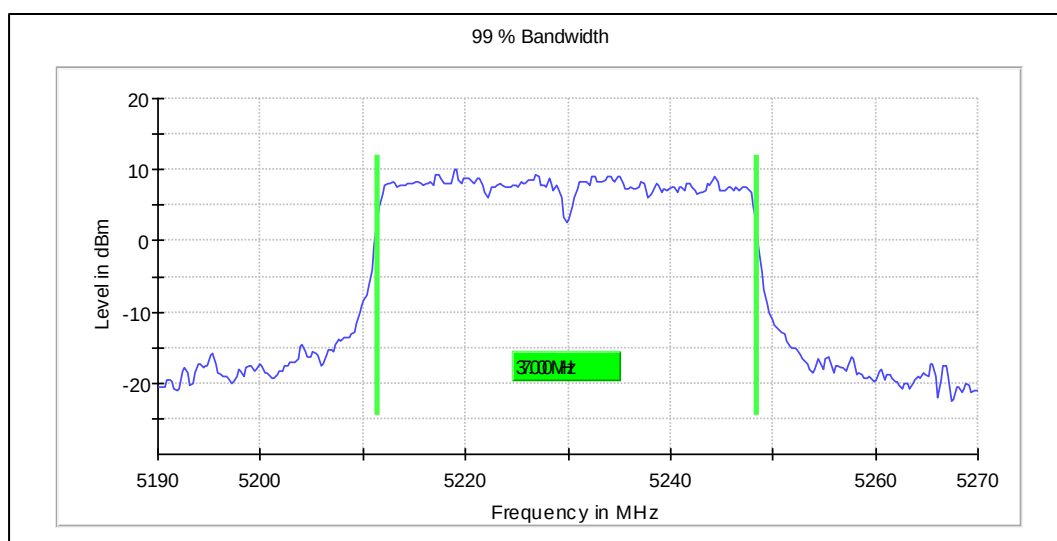
Channel Frequency 5190MHz



Channel Frequency 5190MHz

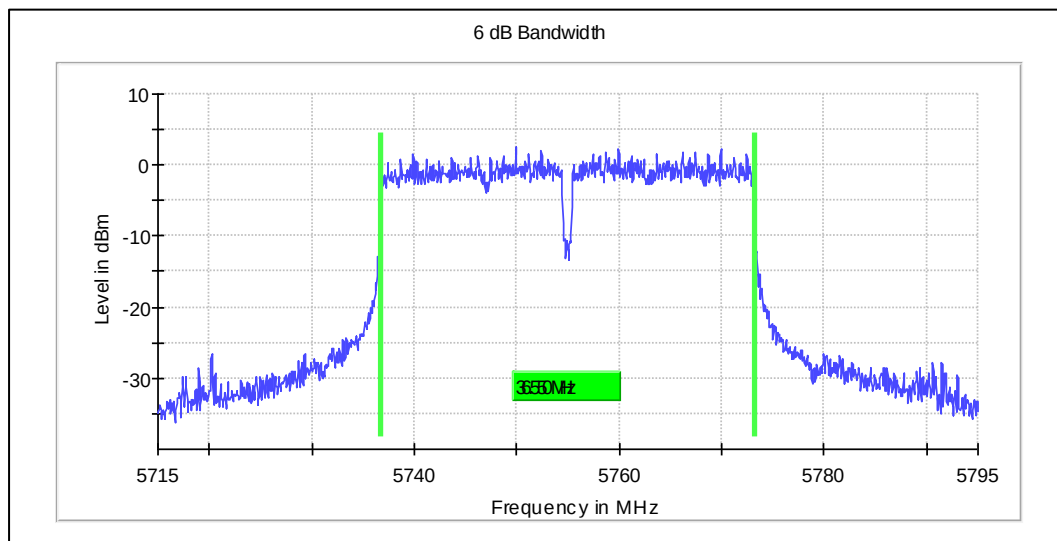


Channel Frequency 5230MHz

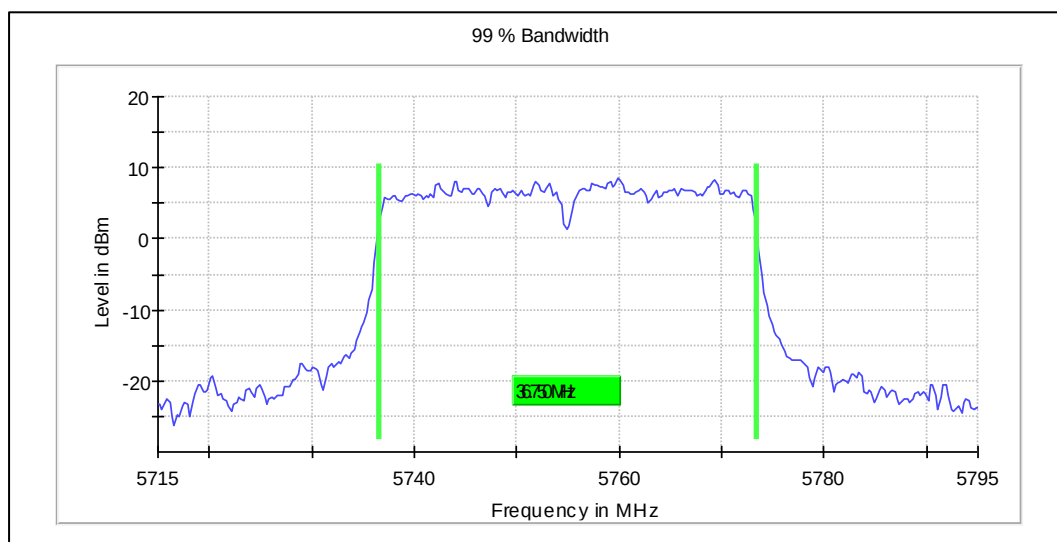


Channel Frequency 5230MHz

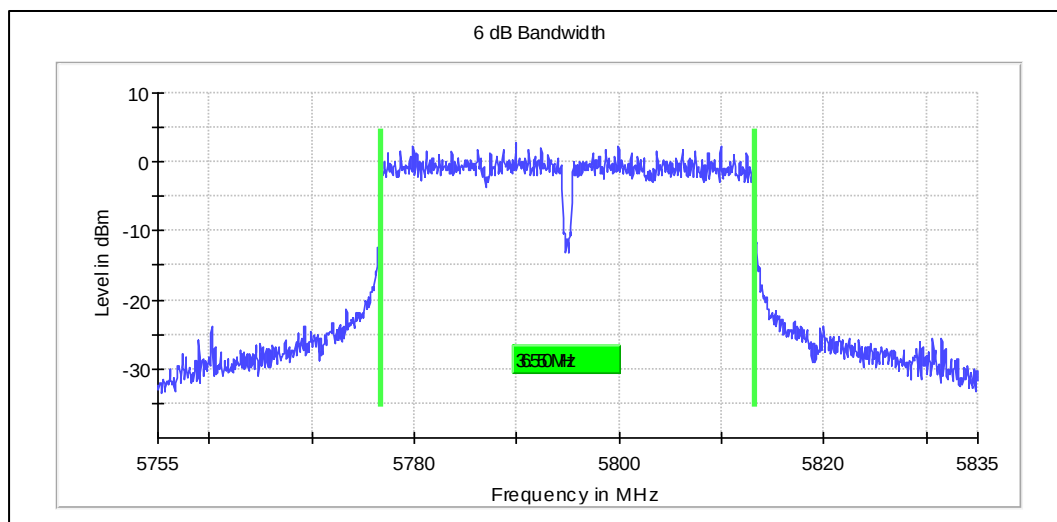
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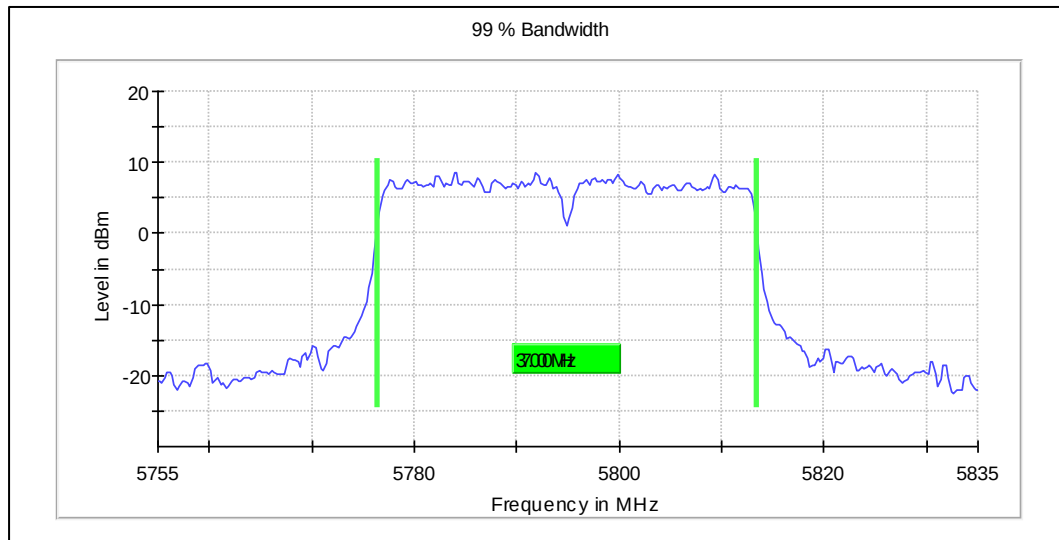
Channel Frequency 5755MHz



Channel Frequency 5755MHz



Channel Frequency 5795MHz



Channel Frequency 5795MHz

Modulation: 802.11ac-VHT40:

Modulation	Data rate	Measured Frequency (MHz)	26 dB emission bandwidth (MHz)	99% Occupied Bandwidth (MHz)
802.11ac-VHT40: UNII 1	MCS0	5190	40.61	36.25
		5230	48.12	36.25
	MCS9	5190	44.57	36.75
		5230	44.57	37.00

Modulation: 802.11ac-VHT40MHz: UNII 3

Data rate	Measured Frequency (MHz)	6 dB emission bandwidth (MHz)	Minimum Limit (MHz)
MCS0	5755	35.40	0.5
	5795	35.60	0.5
MCS9	5755	36.50	0.5
	5795	36.50	0.5

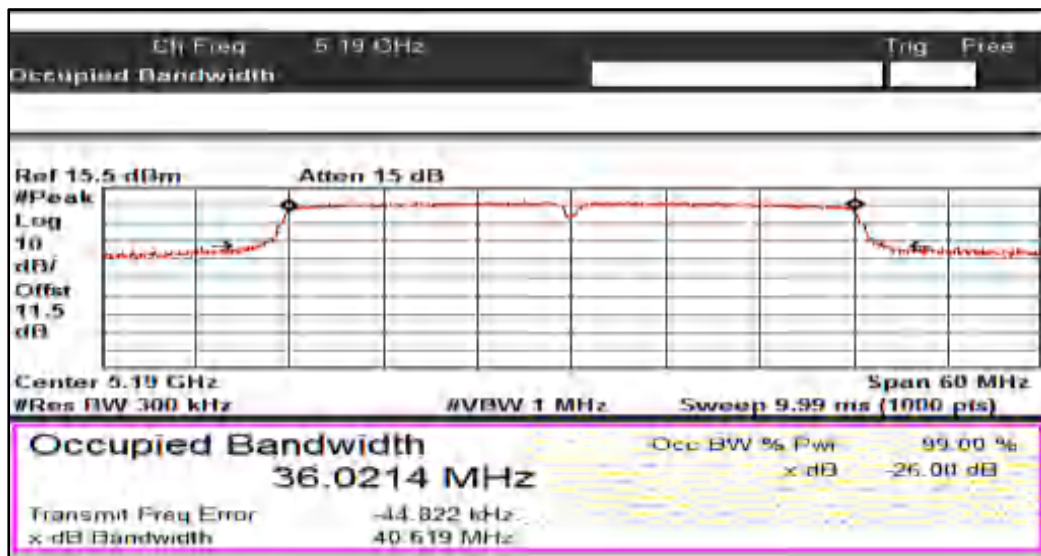
Data rate	Measured Frequency (MHz)	99% Occupied Bandwidth (MHz)
MCS0	5755	36.25
	5795	36.50
MCS9	5755	36.75
	5795	36.75

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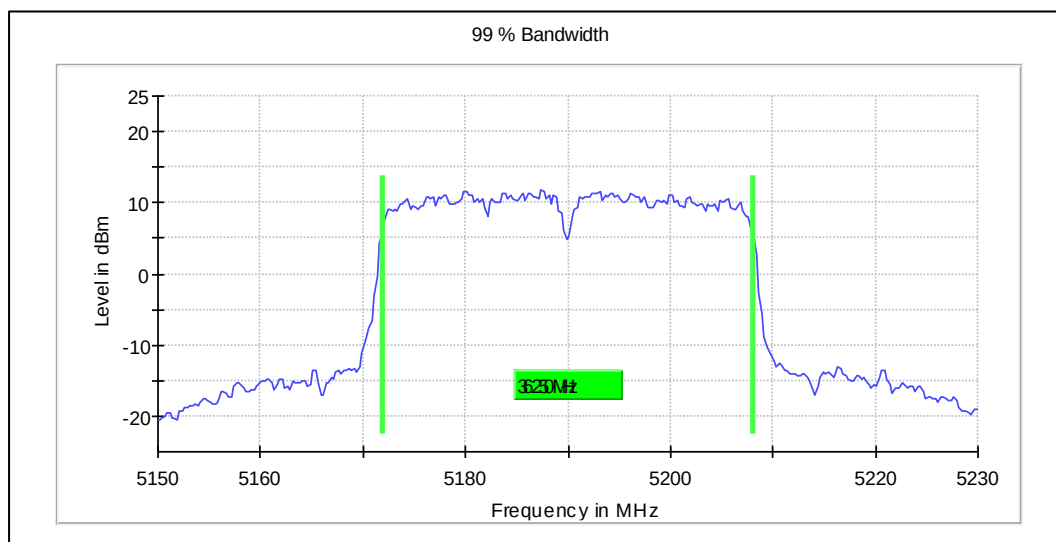
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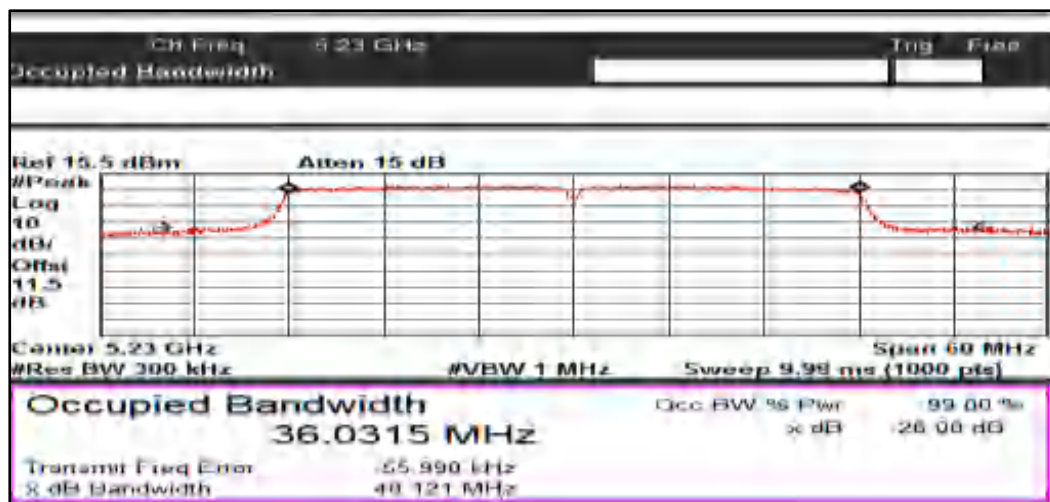
Data Rate: MCS0



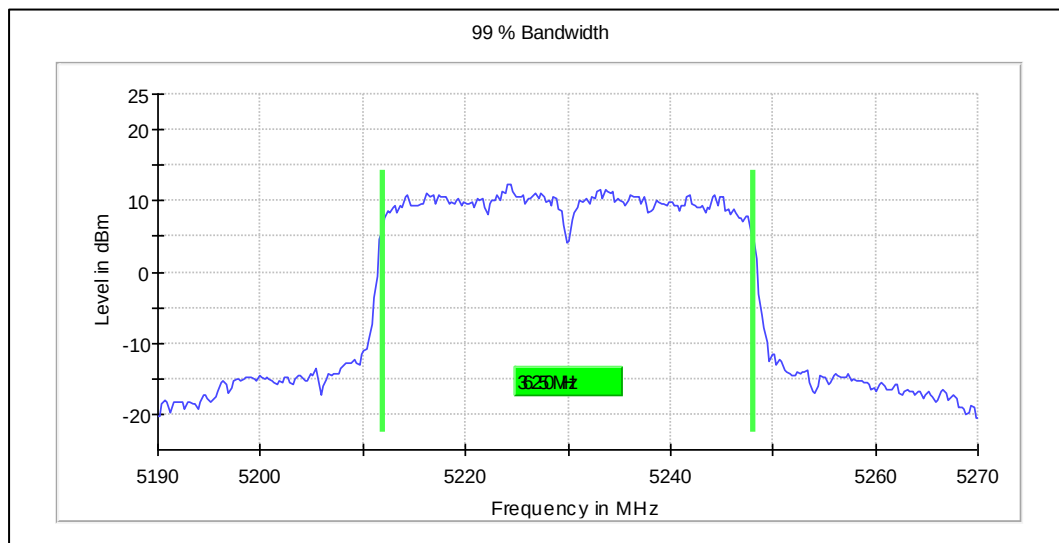
Channel Frequency 5190MHz



Channel Frequency 5190MHz

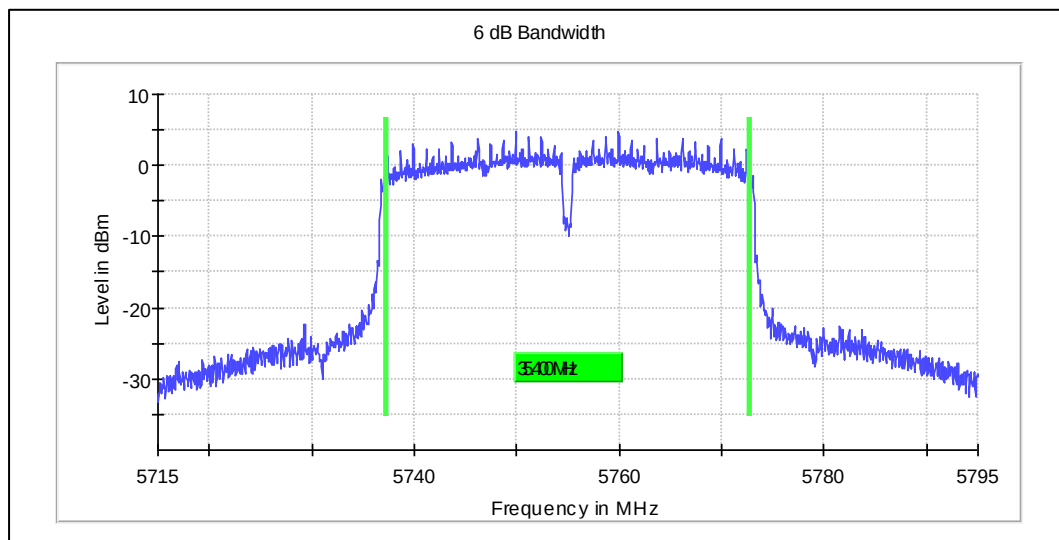


Channel Frequency 5230MHz

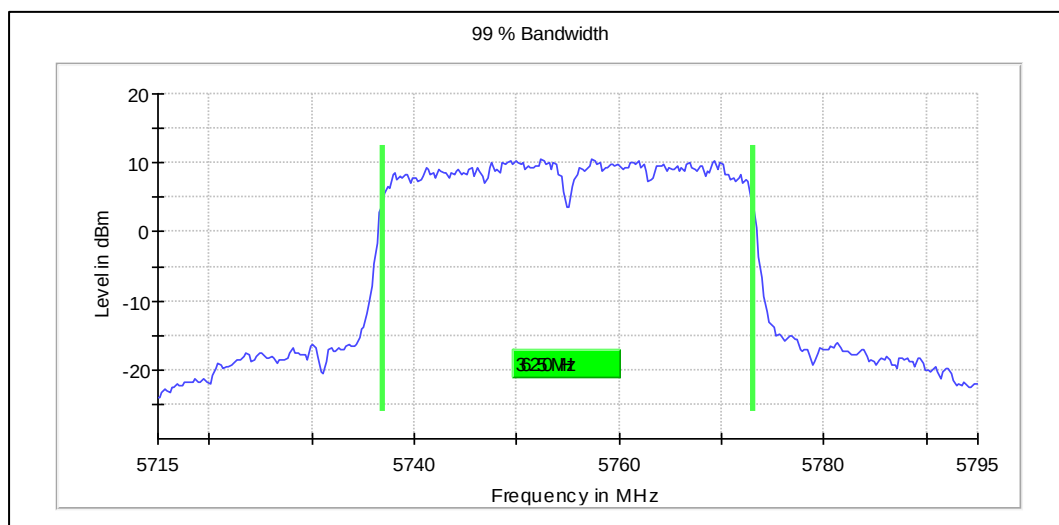


Channel Frequency 5230MHz

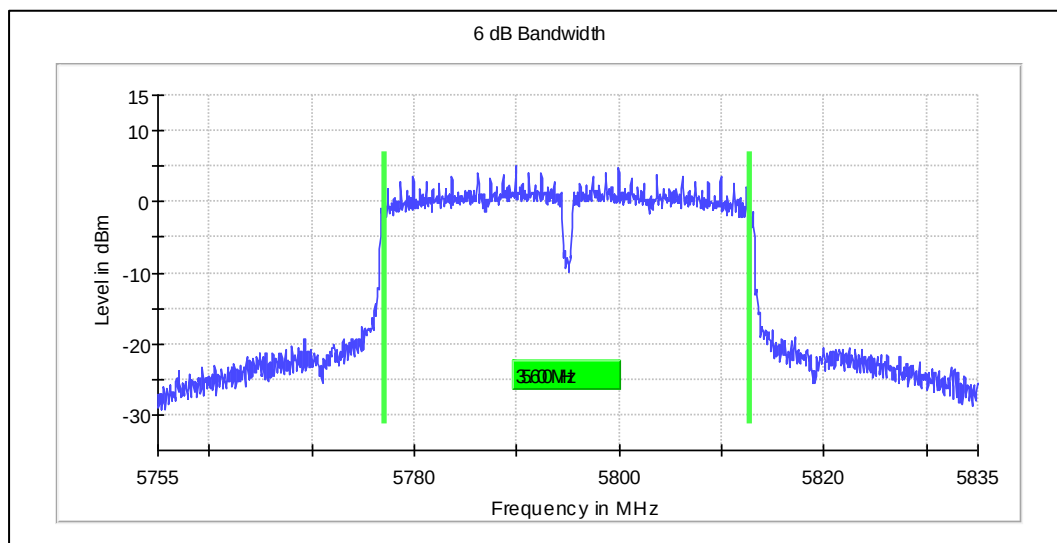
UNII-3



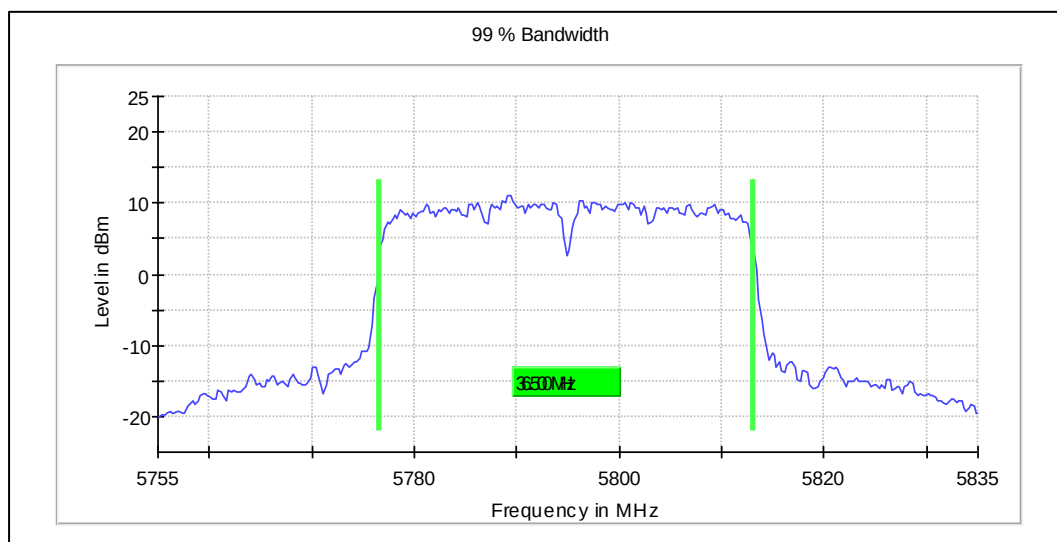
Channel Frequency 5755MHz



Channel Frequency 5755MHz

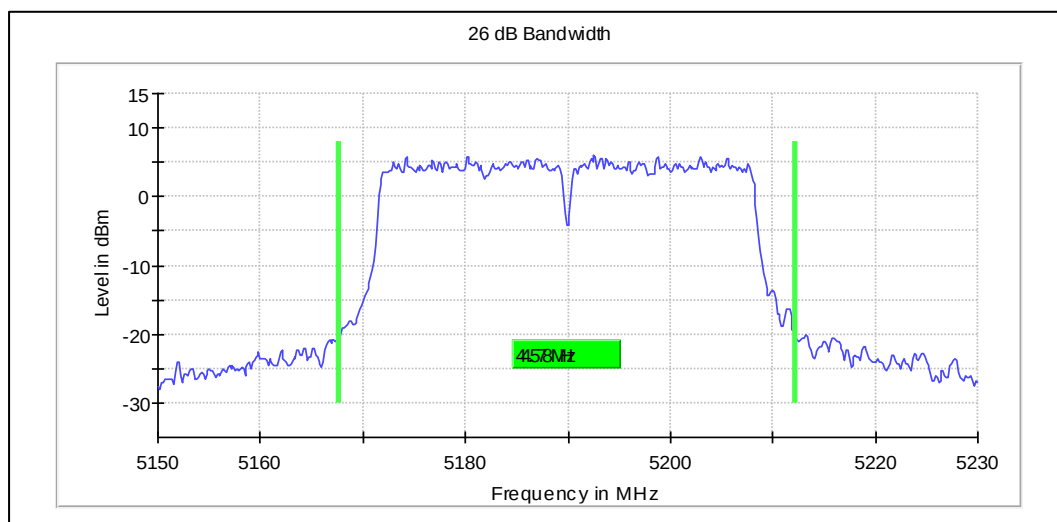


Channel Frequency 5795MHz

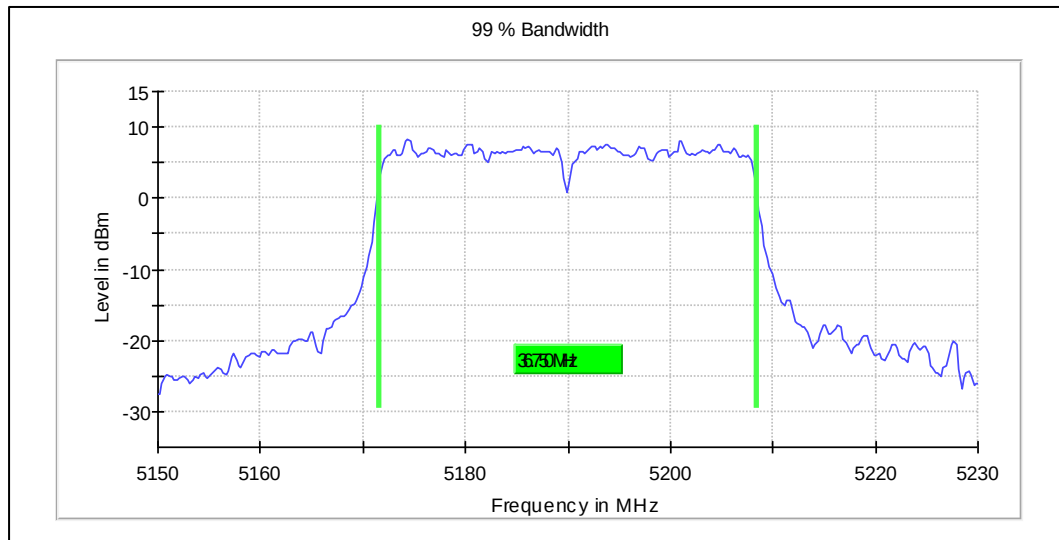


Channel Frequency 5795MHz

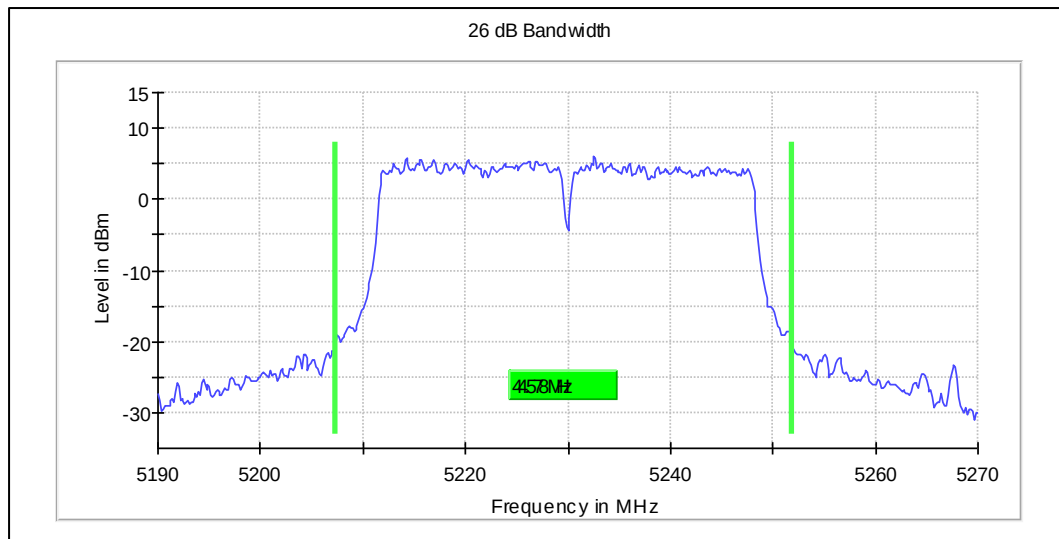
Data Rate: MCS9



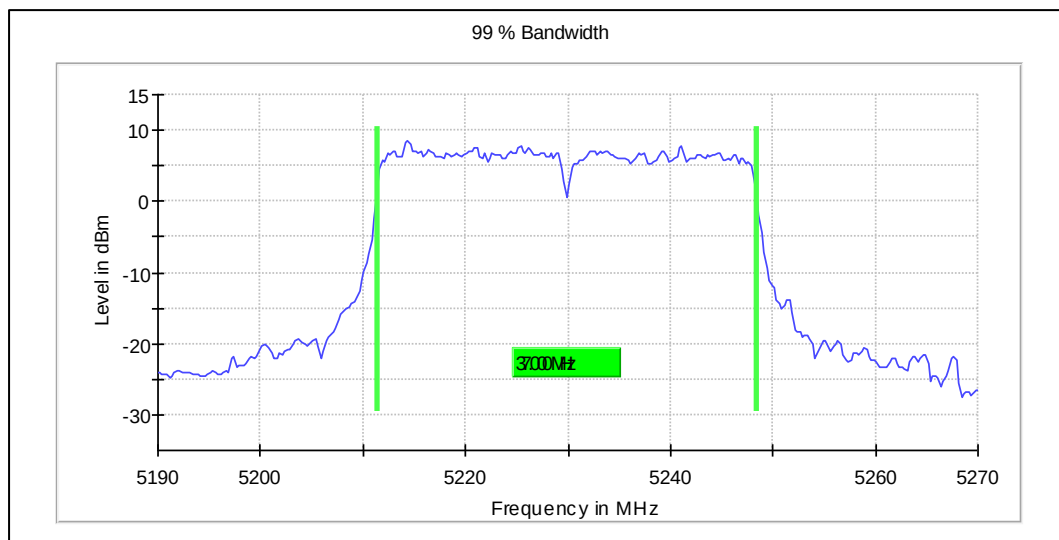
Channel Frequency 5190MHz



Channel Frequency 5190MHz

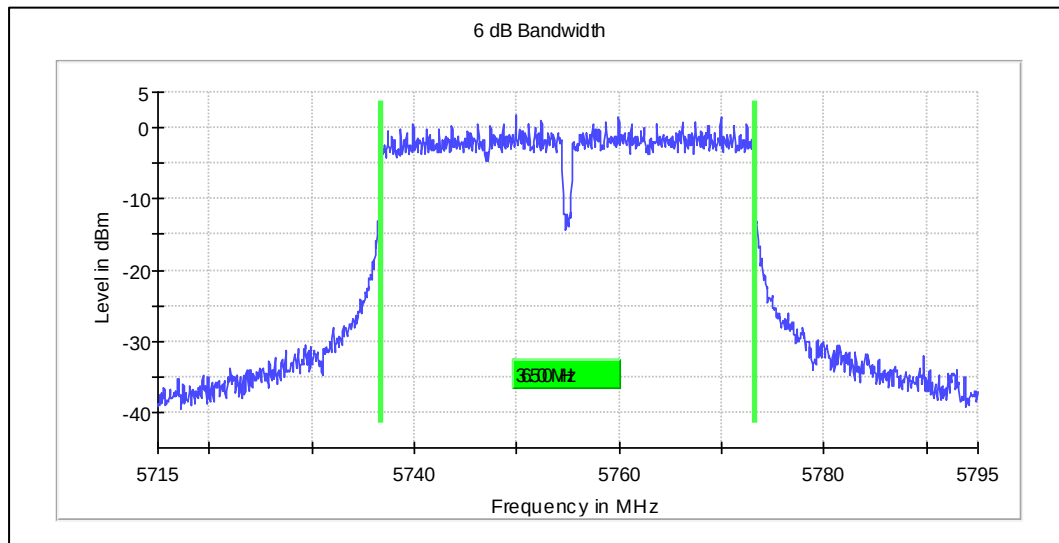


Channel Frequency 5230MHz

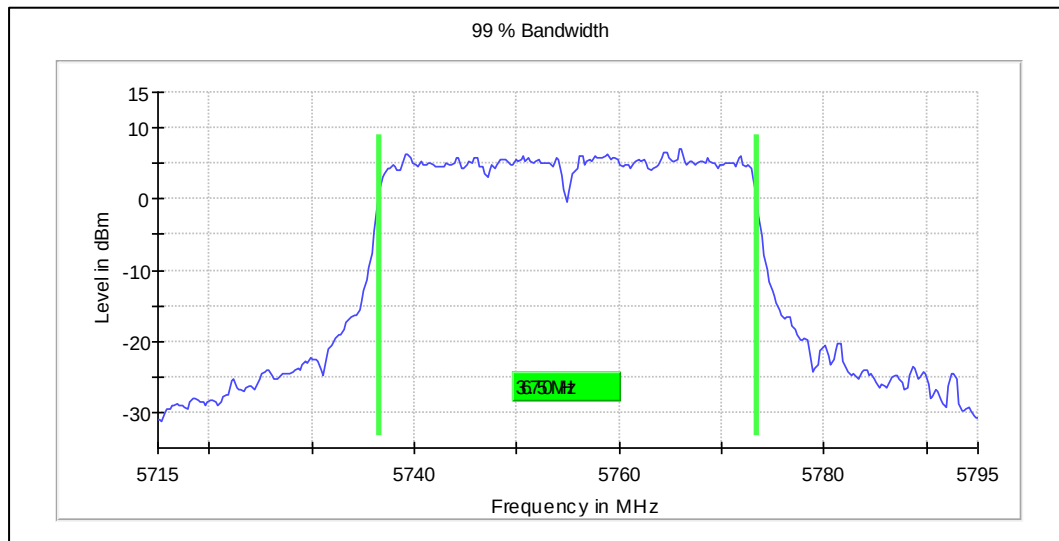


Channel Frequency 5230MHz

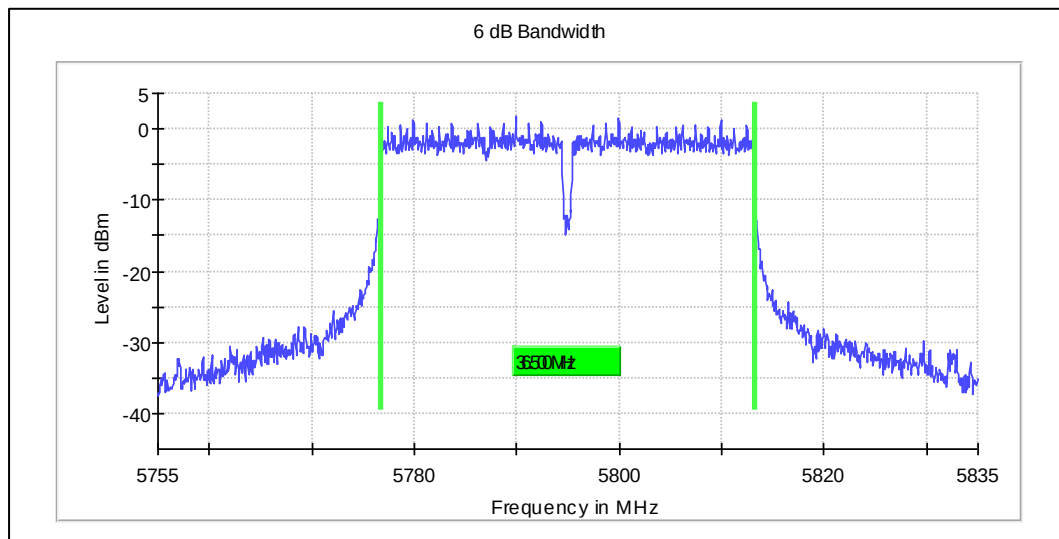
UNII-3



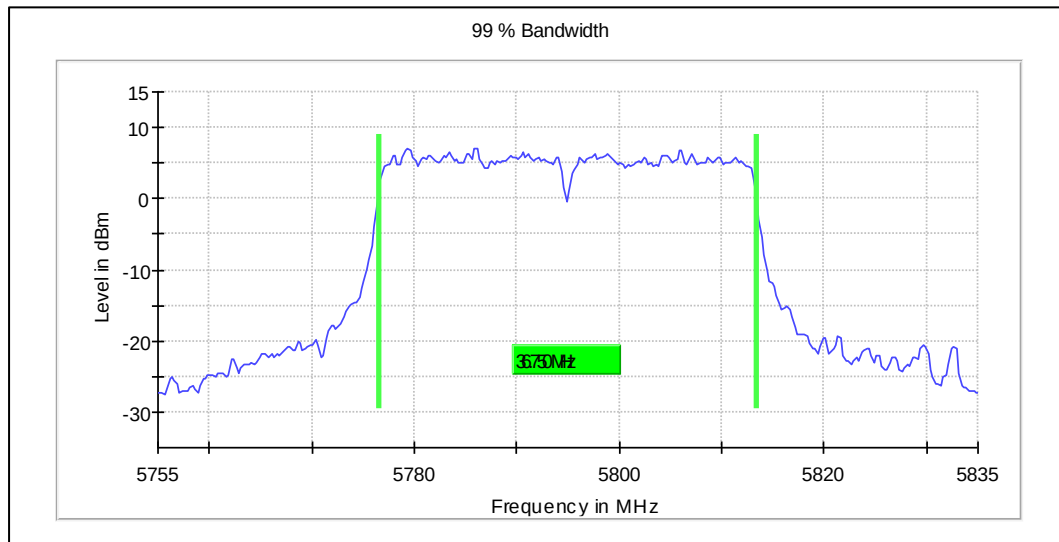
Channel Frequency 5755MHz



Channel Frequency 5755MHz



Channel Frequency 5795MHz



Channel Frequency 5795MHz

Modulation: 802.11ax-HE40:

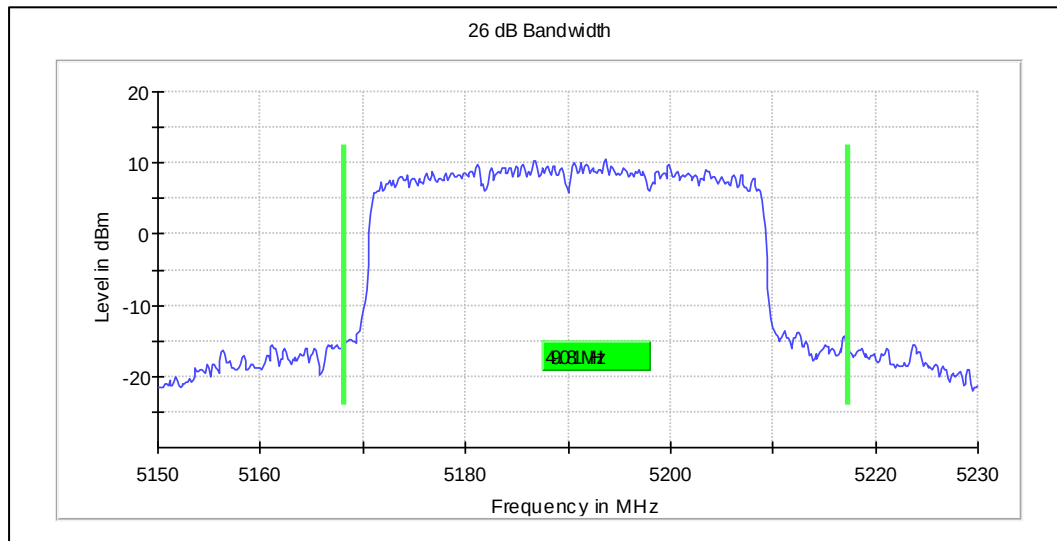
Modulation	Data rate	Measured Frequency (MHz)	26 dB emission bandwidth (MHz)	99% Occupied Bandwidth (MHz)
802.11ax-HE40: UNII 1	MCS0	5190	49.08	38.00
		5230	40.59	38.00
	MCS11	5190	43.52	38.25
		5230	43.22	38.25

Modulation: 802.11ax-HE40: UNII 3

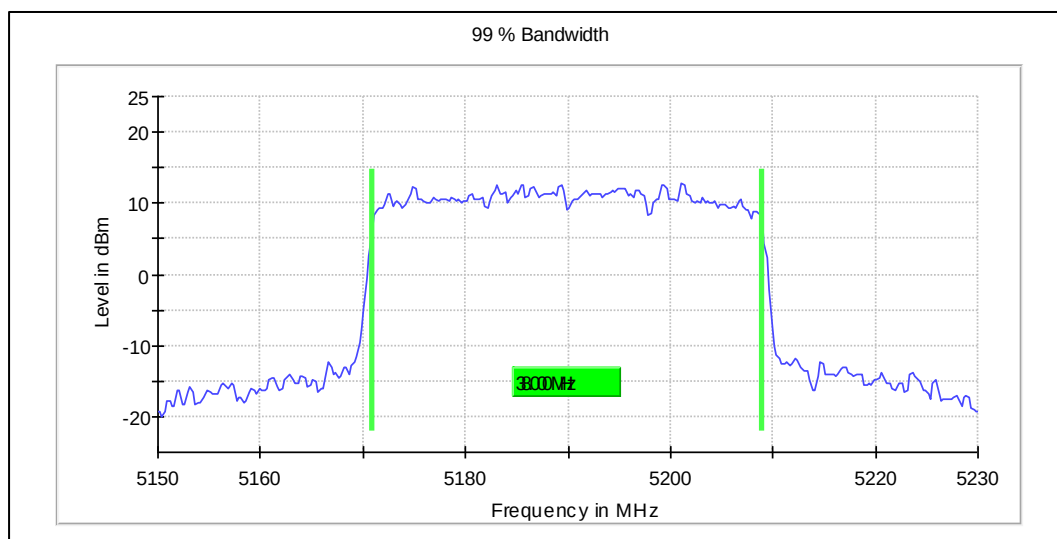
Data rate	Measured Frequency (MHz)	6 dB emission bandwidth (MHz)	Minimum Limit (MHz)
MCS0	5745	35.59	0.5
	5825	37.20	0.5
MCS11	5745	38.30	0.5
	5825	38.25	0.5

Data rate	Measured Frequency (MHz)	99% Occupied Bandwidth (MHz)
MCS0	5745	37.75
	5825	38.00
MCS11	5745	38.00
	5825	38.25

Data Rate: MCS0



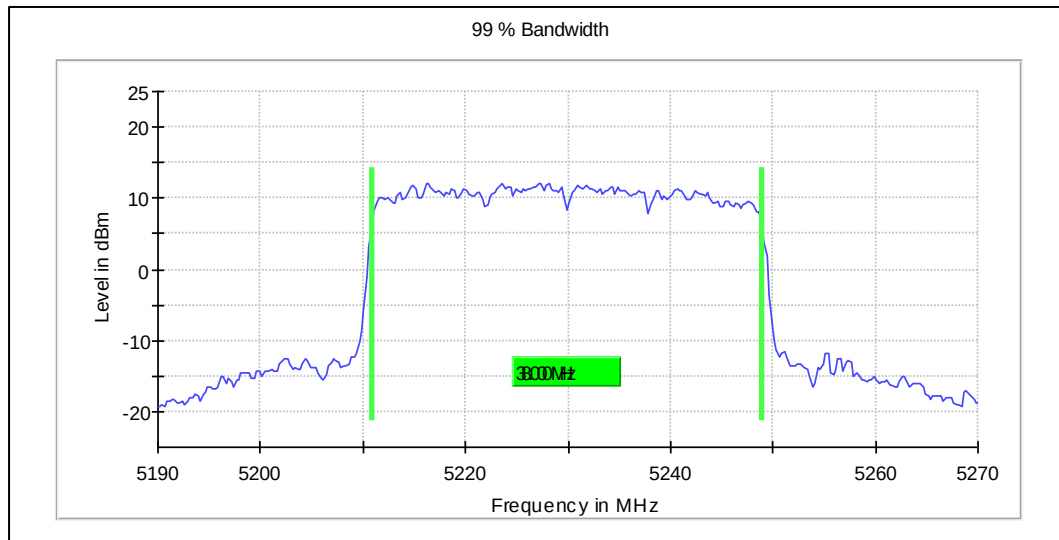
Channel Frequency 5190MHz



Channel Frequency 5190MHz

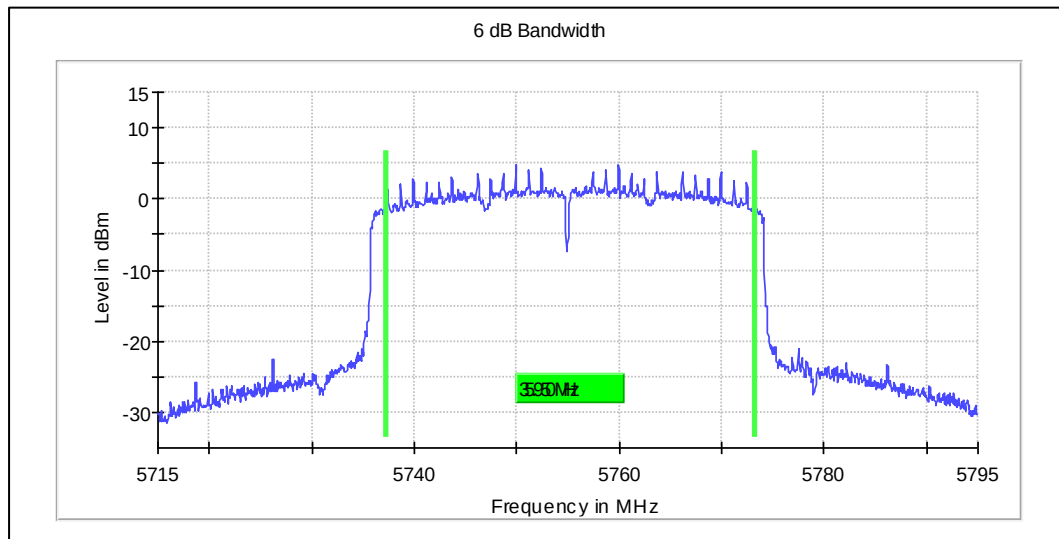


Channel Frequency 5230MHz

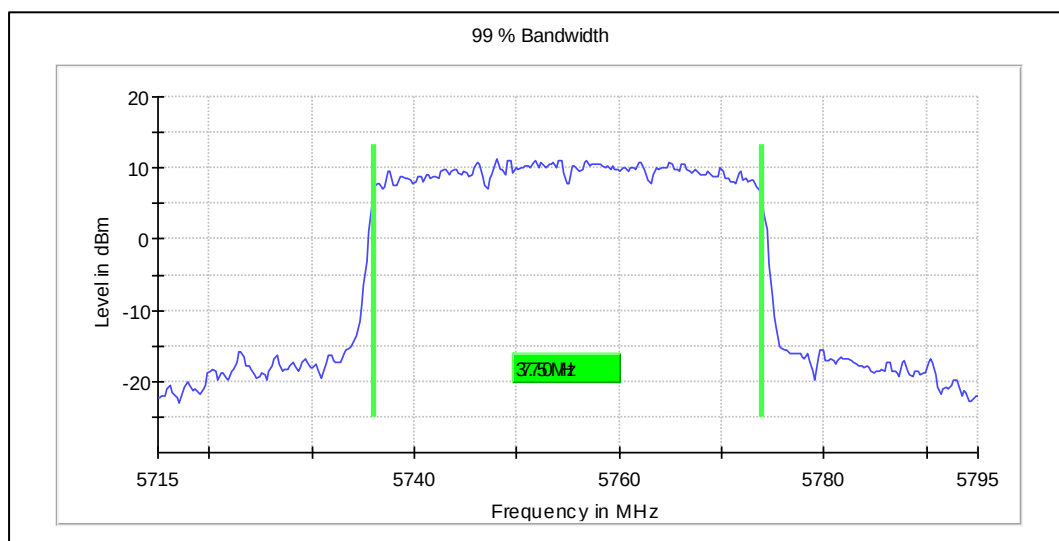


Channel Frequency 5230MHz

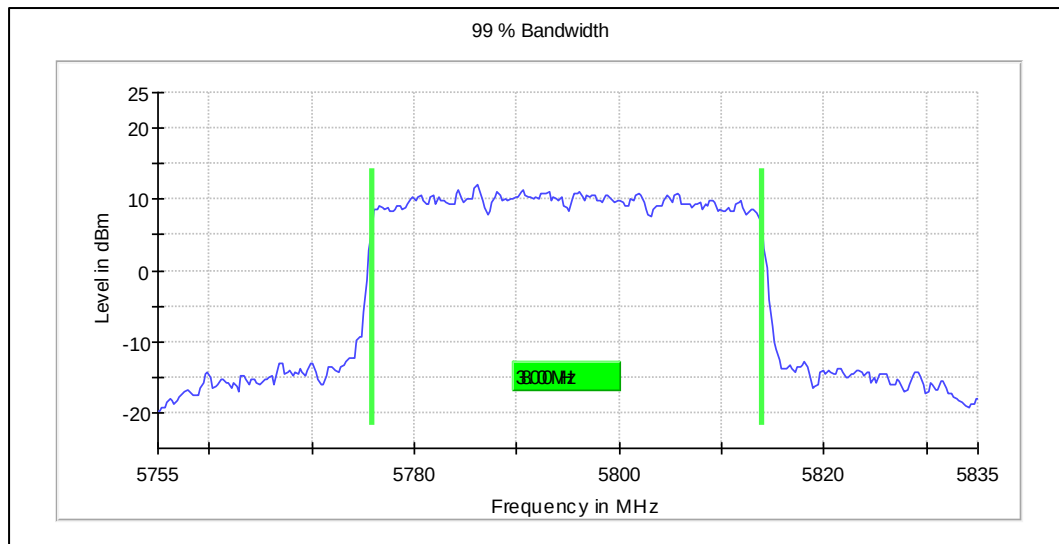
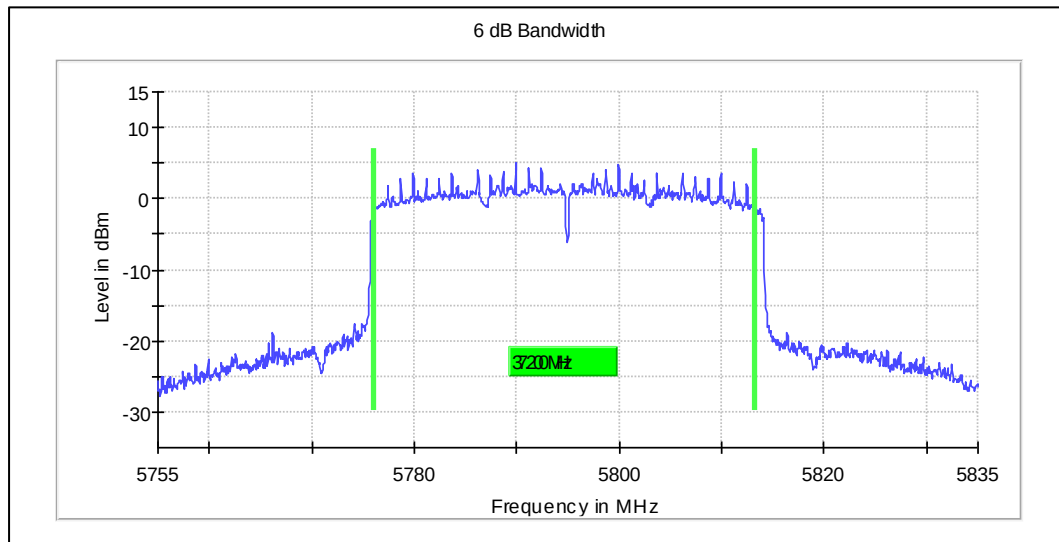
UNII-3



Channel Frequency 5755MHz



Channel Frequency 5755MHz



Modulation: 802.11ac-VHT80:

Modulation	Data rate	Measured Frequency (MHz)	26 dB emission bandwidth (MHz)	99% Occupied Bandwidth (MHz)
802.11ac-VHT80: UNII 1	MCS0	5210	104.42	76.50
	MCS9	5210	90.00	76.50

Modulation: 802.11ac-VHT80: UNII 3

Data rate	Measured Frequency (MHz)	6 dB emission bandwidth (MHz)	Minimum Limit (MHz)
MCS0	5775	75.15	0.5
MCS9	5775	76.50	0.5

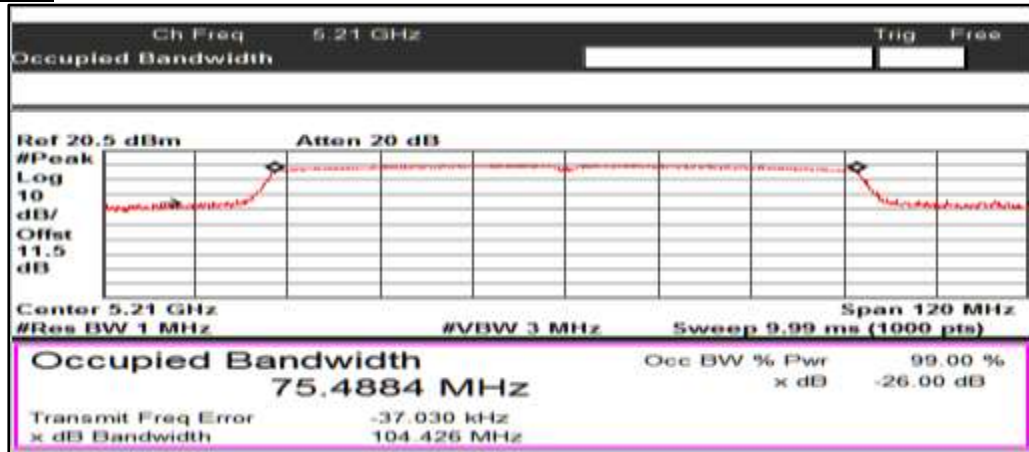
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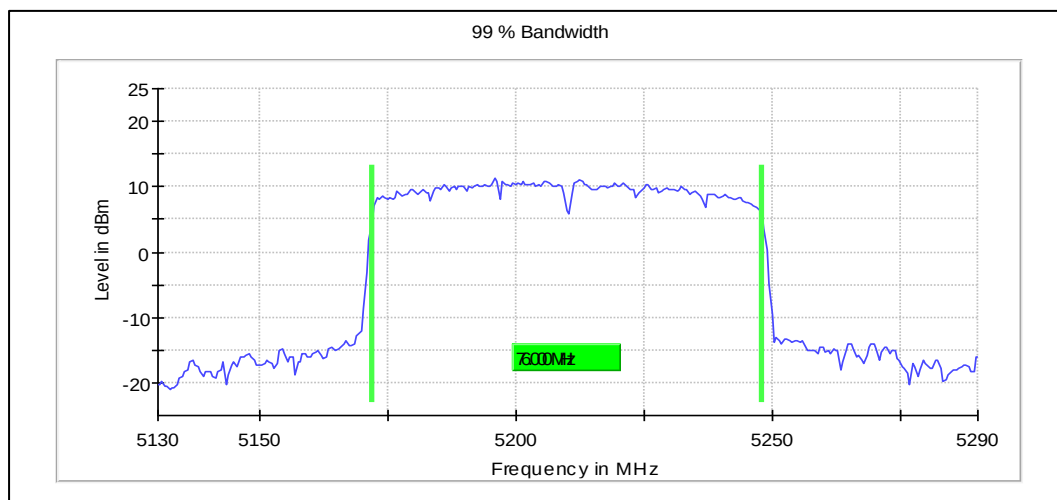
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Data rate	Measured Frequency (MHz)	99% Occupied Bandwidth (MHz)
MCS0	5755	75.50
MCS9	5755	76.50

Data Rate: MCS0

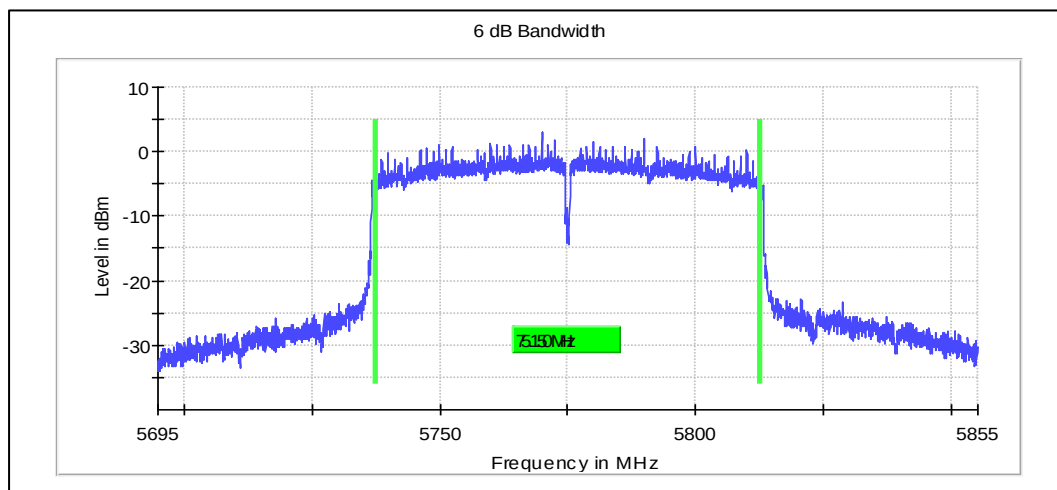


Channel Frequency 5210MHz

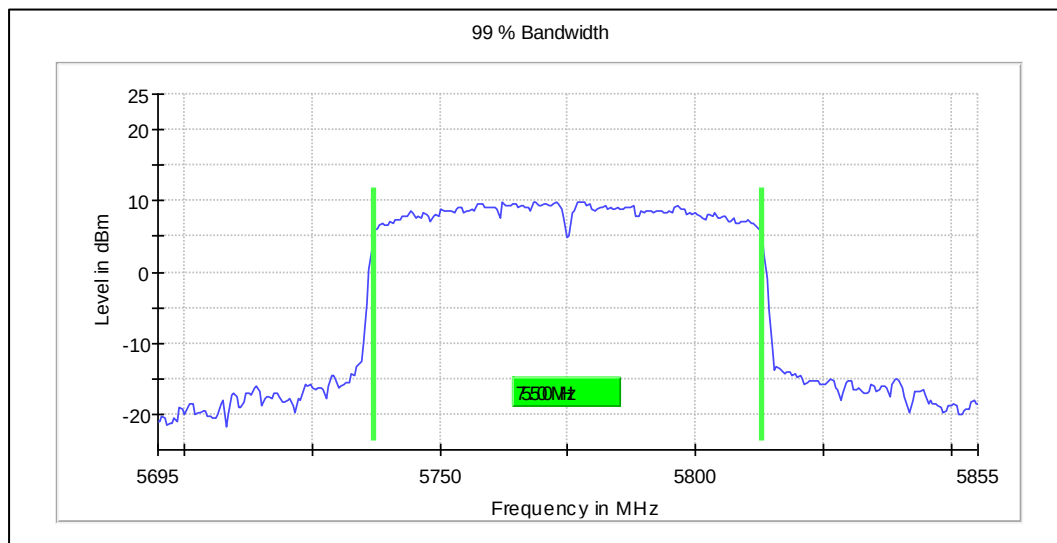


Channel Frequency 5210MHz

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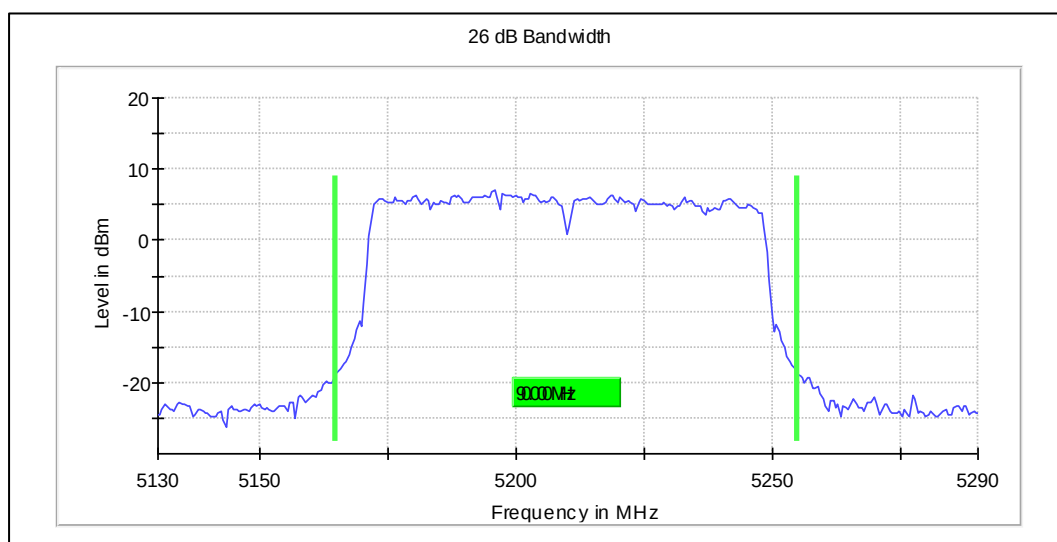


Channel Frequency 5775MHz

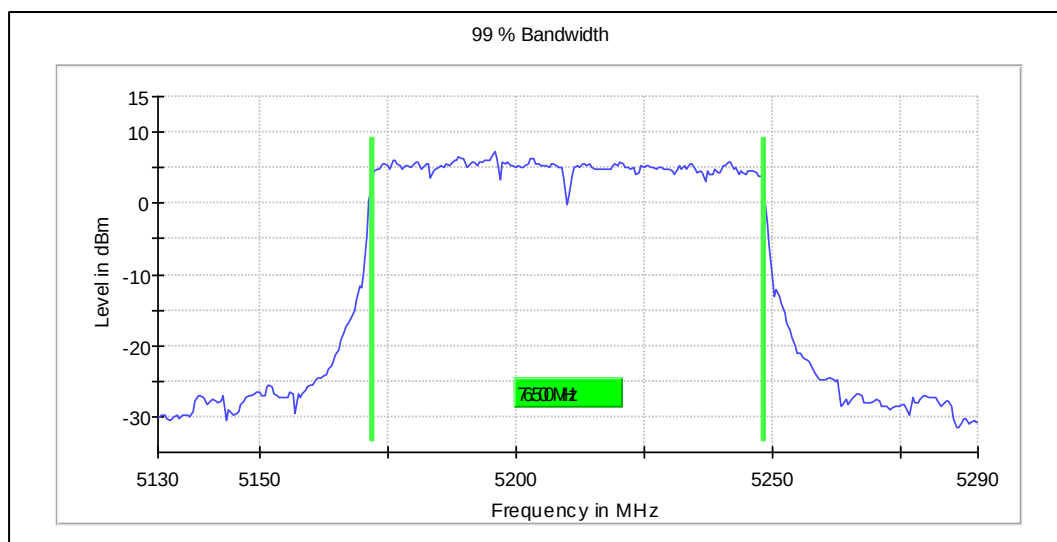


Channel Frequency 5775MHz

Data Rate: MCS9

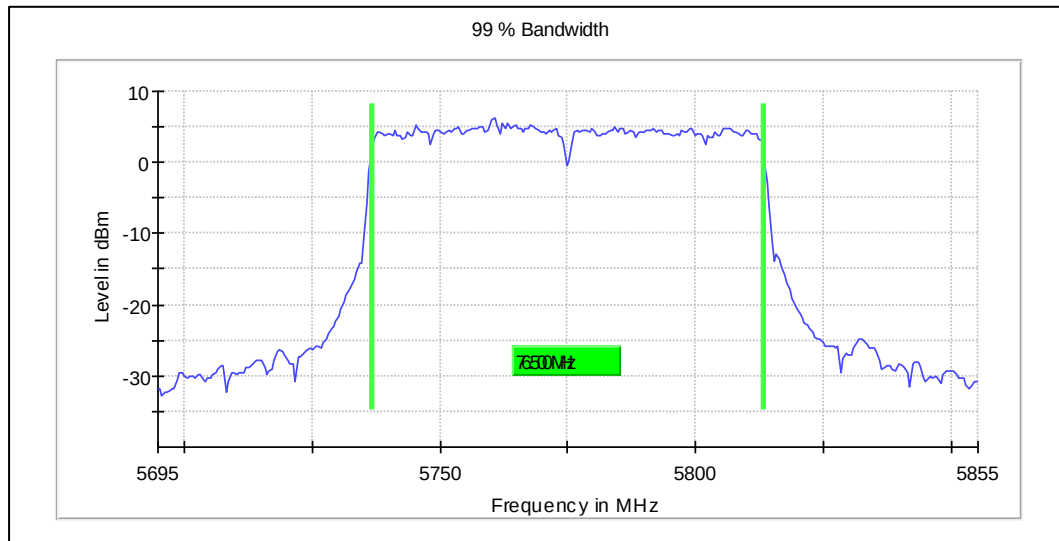
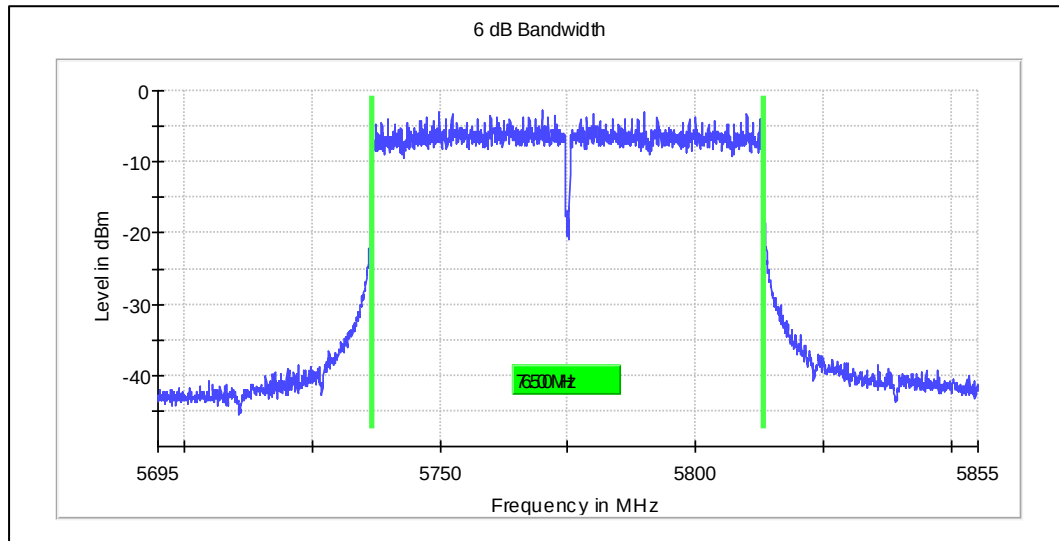


Channel Frequency 5210MHz



Channel Frequency 5210MHz

UNII-3



Modulation: 802.11ax-HE80:

Modulation	Data rate	Measured Frequency (MHz)	26 dB emission bandwidth (MHz)	99% Occupied Bandwidth (MHz)
802.11ax- HE80: UNII 1	MCS0	5210	97.50	77.50
	MCS11	5210	89.00	77.50

Modulation: 802.11ax-HE80: UNII 3

Data rate	Measured Frequency (MHz)	6 dB emission bandwidth (MHz)	Minimum Limit (MHz)
MCS0	5775	75.20	0.5
MCS11	5775	78.25	0.5

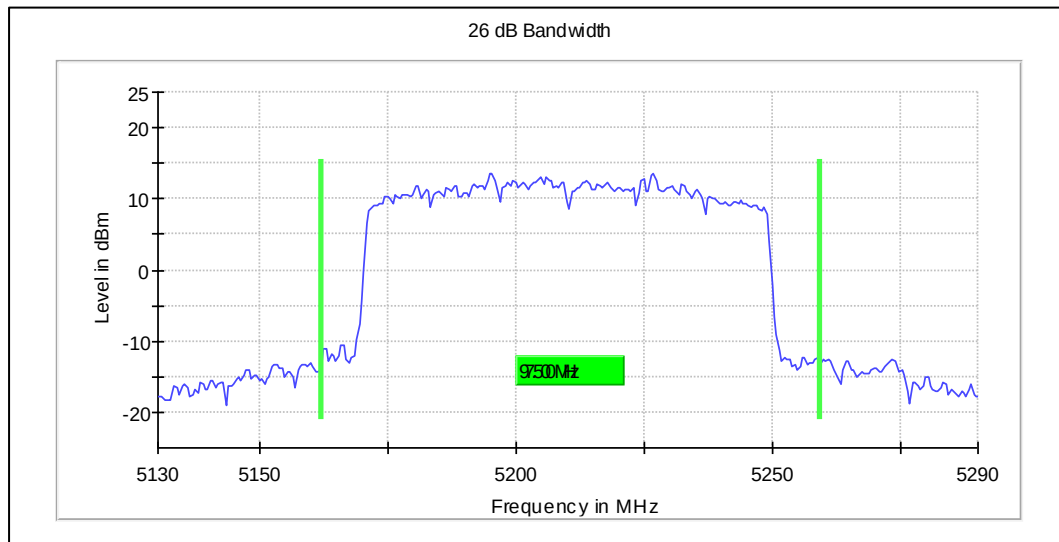
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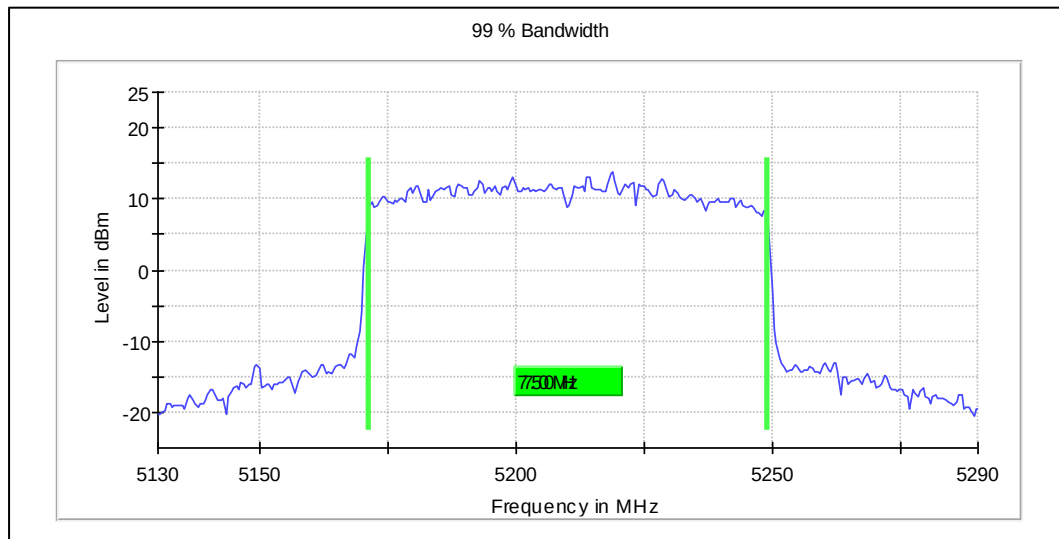
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Data rate	Measured Frequency (MHz)	99% Occupied Bandwidth (MHz)
MCS0	5755	77.50
MCS11	5755	77.50

Data Rate: MCS0

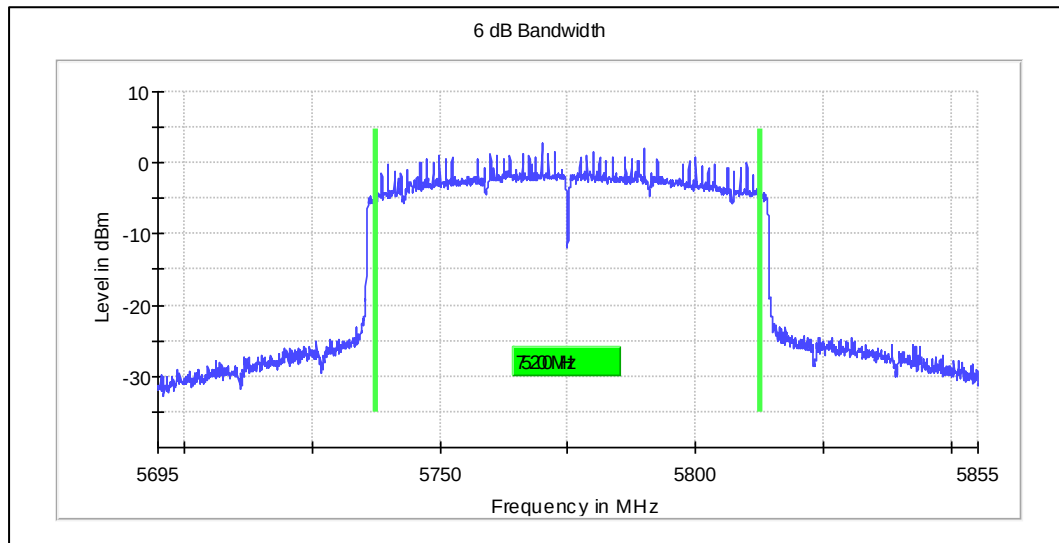


Channel Frequency 5210MHz

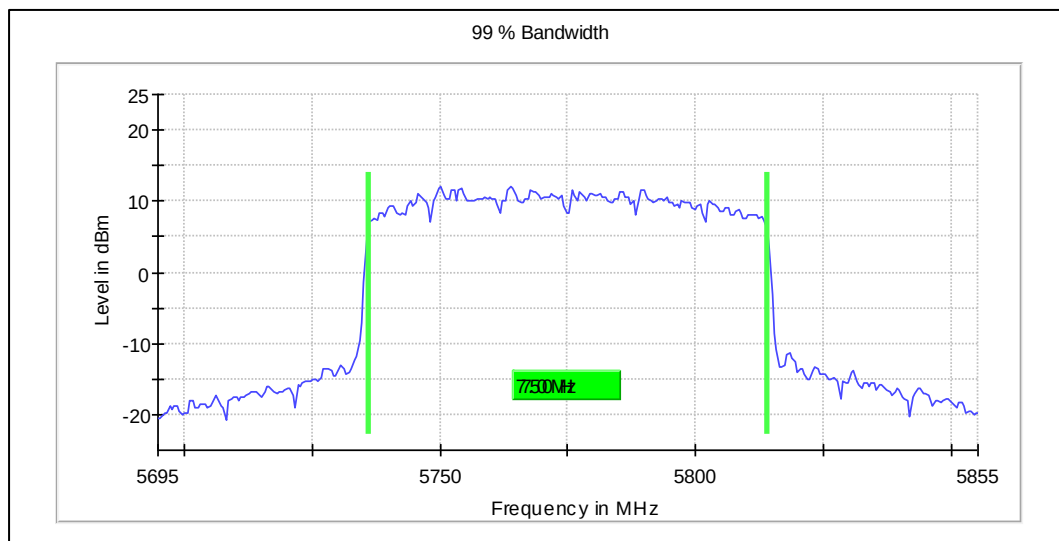


Channel Frequency 5210MHz

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Channel Frequency 5775MHz



Channel Frequency 5775MHz

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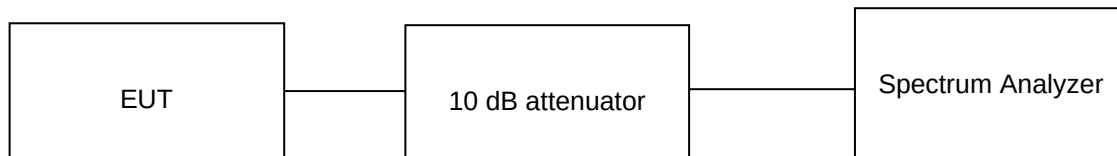
7.2 Maximum Conducted Output Power

Result

Pass

Test Specification	FCC part 15 Subpart C & E, 15.247 (b), 15.407 (a)
Test Method	Subclause 12.3.2.4 of ANSI C63.10
Measurement Bandwidth	Refer the remarks below
Detector	Average sample detector mode
Port of testing	Antenna port
Requirement for FCC	1. For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW 2. For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W

Test Method



The following procedure shall be used (trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction):

1. Set center frequency to the nominal EUT channel center frequency
2. Set span to encompass the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
3. Set RBW = 1MHz
4. Set VBW $\geq 3 \times$ RBW
5. Number of points in sweep $\geq 2 \times$ span / RBW. (This ensures that bin-to-bin spacing is $\leq$ RBW/2, so that narrowband signals are not lost between frequency bins.)
6. Sweep time = auto
7. Detector = power averaging (rms), if available. Otherwise, use sample detector mode
8. Do not use sweep triggering. Allow the sweep to "free run."
9. Trace average at least 100 traces and Compute power by integrating the spectrum across the EBW
10. Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission)

Test Condition:

Normal Test Condition:

Temperature (Norm) = + 25 °C Voltage = 3.3 V DC through AC to Dc adaptor Relative humidity: 62 %

KDB Guidelines applied:

Measurements were made as per section E (2) sub-section (d) in KDB 789033 D02 General UNII Test Procedures New Rules v02r01

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Test results:

Note:

1. All the losses are included during measurement and final values are mentioned in the test report
2. Duty cycle correction factor is considered in Final Average power

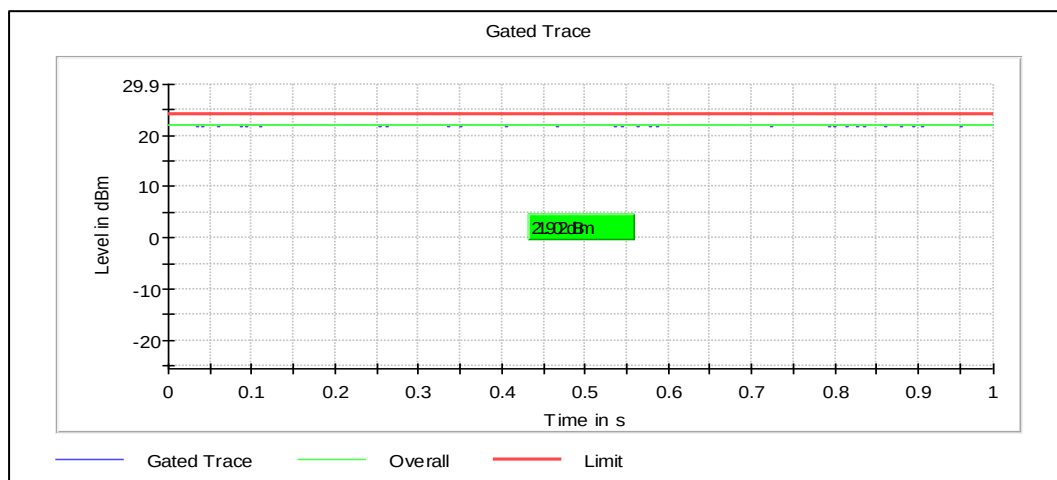
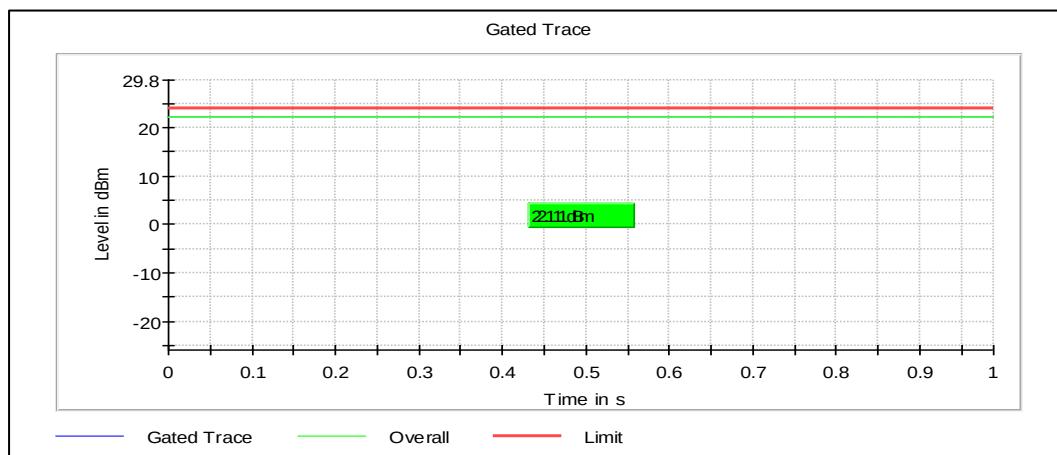
Duty cycle Correction factor = $10 \cdot \log(1/X)$ Where X is Duty Cycle

3. This product do not support additional beamforming gain / directional gain, it uses signal antenna and hence directional gain of the single antenna is (1.60 dBi)

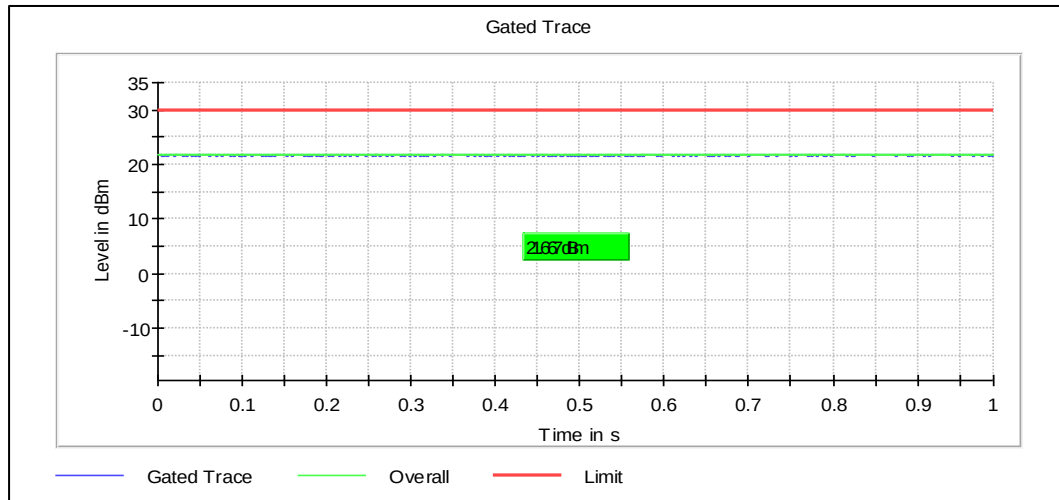
Modulation: 802.11a:

Data rate (Mbps)	Measured Frequency (MHz)	Measured Average Power (dBm)	FCC Power Limit (dBm)
a_mode-6Mbps	5180	22.11	24.00
	5240	21.90	24.00
	5745	21.66	30.00
	5825	21.60	30.00
a_mode-54Mbps	5180	21.42	24.00
	5240	21.19	24.00
	5745	20.96	30.00
	5825	20.95	30.00

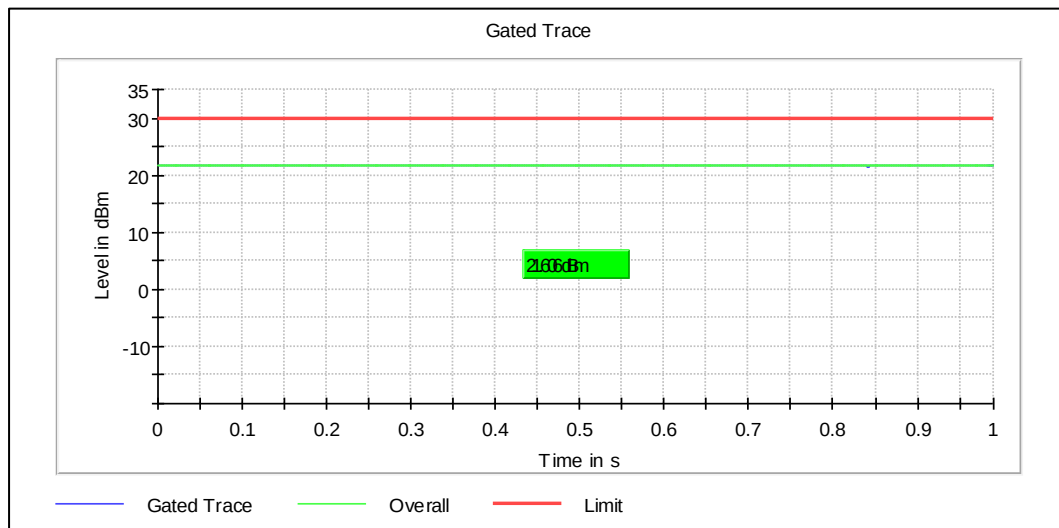
Data Rate: 6Mbps



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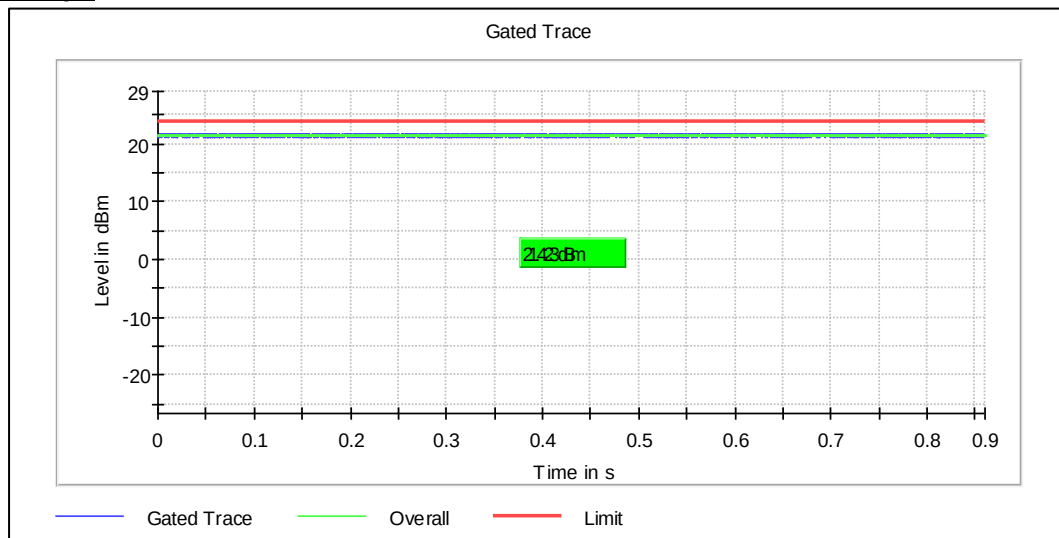


Channel Frequency 5745MHz

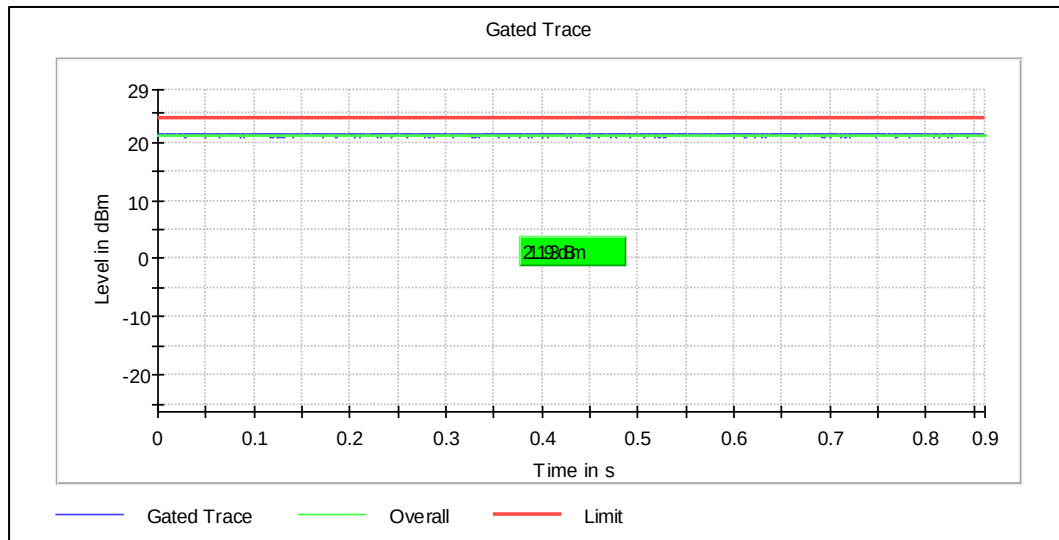


Channel Frequency 5825MHz

Data Rate: 54Mbps

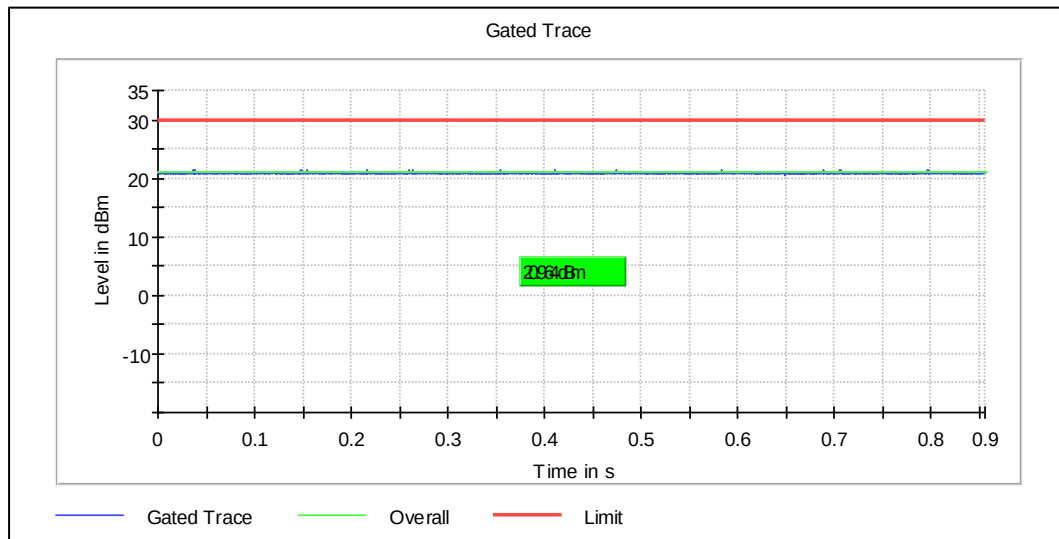


Channel Frequency 5180MHz

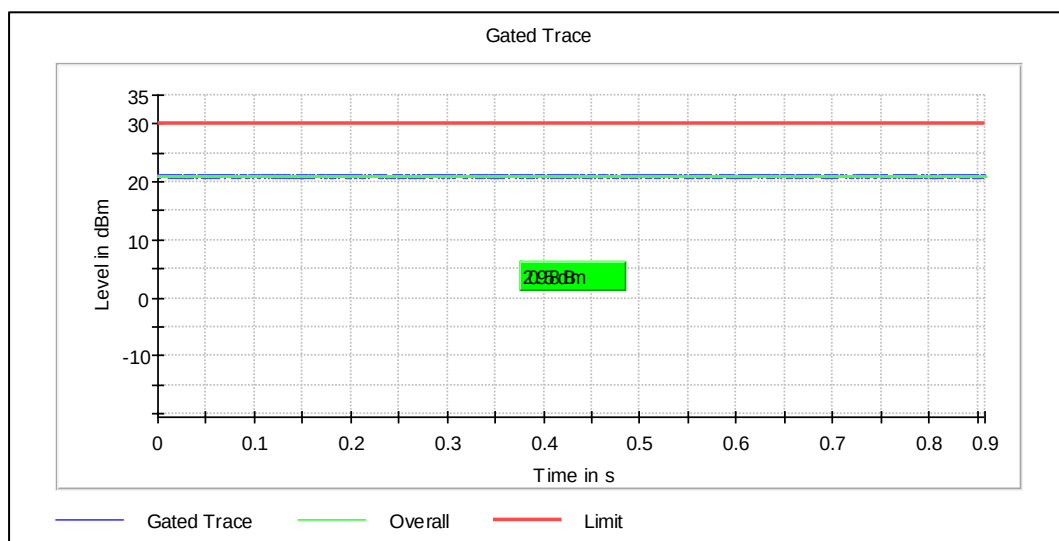


Channel Frequency 5240MHz

UNII-3



Channel Frequency 5745MHz



Channel Frequency 5825MHz

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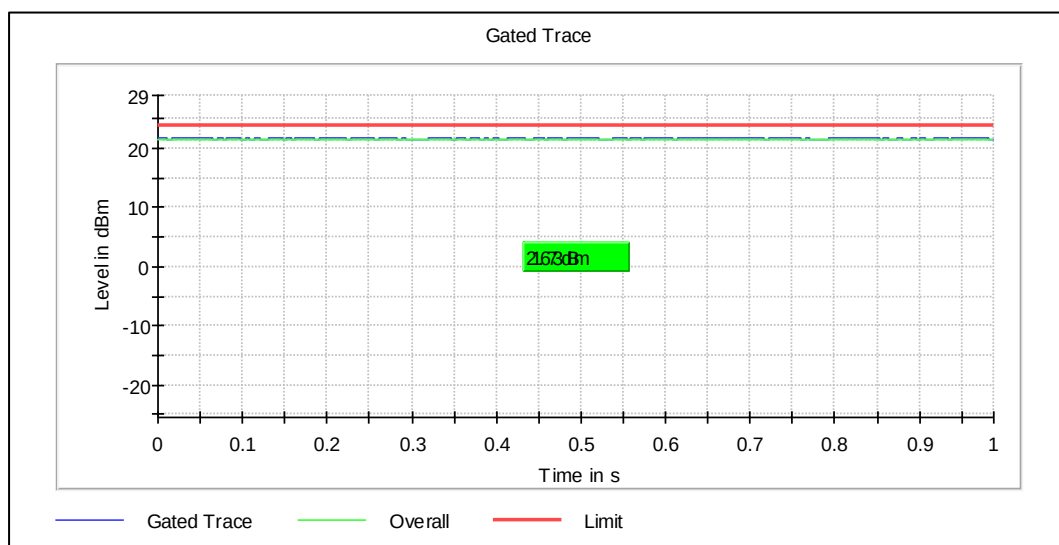
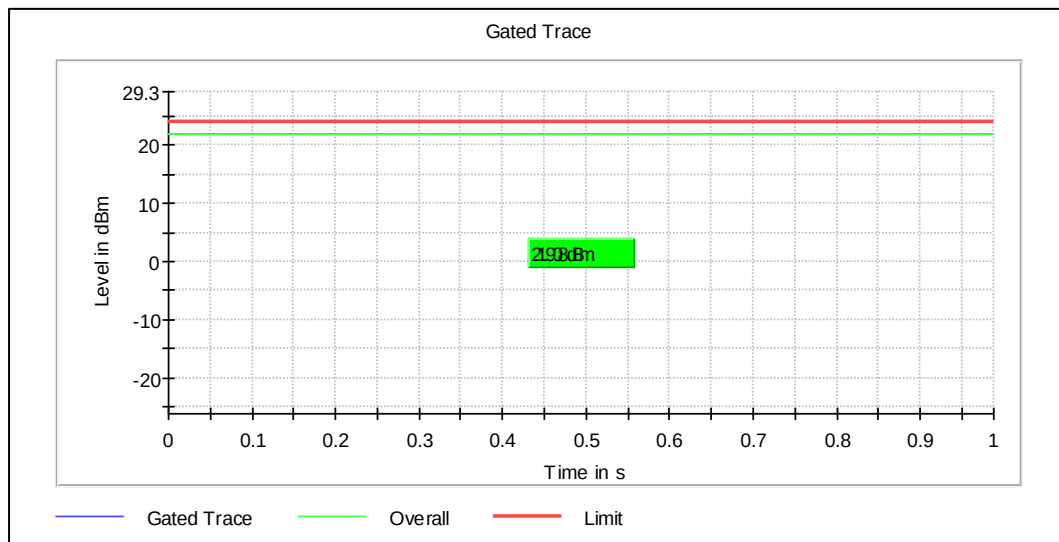
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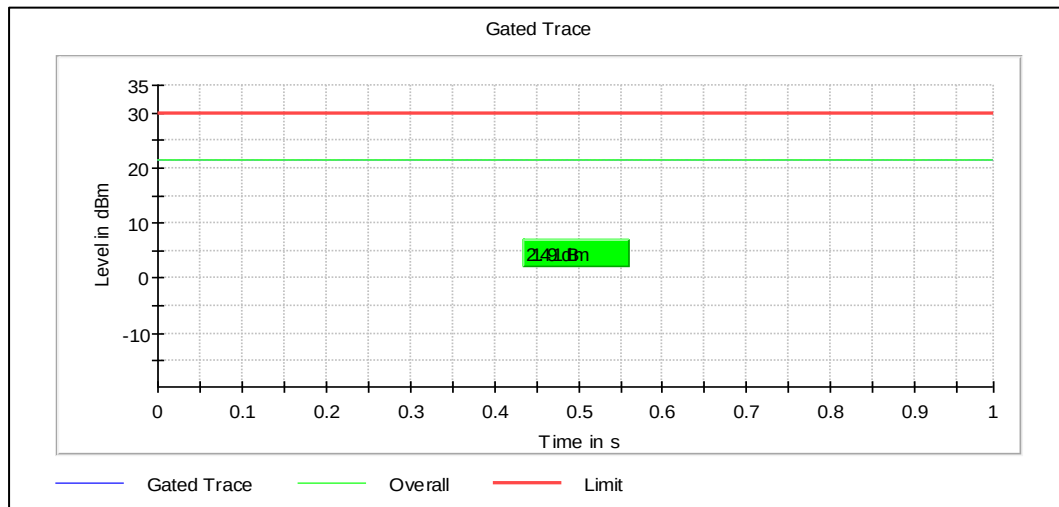
Modulation: 802.11n-HT20:

Data rate (Mbps)	Measured Frequency (MHz)	Measured Average Power (dBm)	FCC Power Limit (dBm)
n_mode-HT20-MCS0	5180	21.90	24.00
	5240	21.67	24.00
	5745	21.49	30.00
	5825	21.47	30.00
n_mode-HT20-MCS7	5180	20.59	24.00
	5240	20.33	24.00
	5745	20.11	30.00
	5825	20.20	30.00

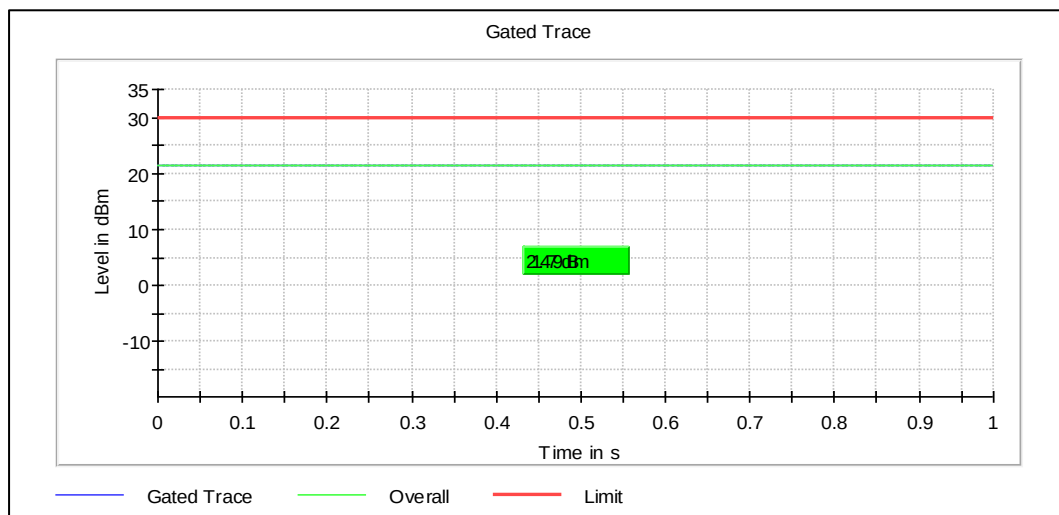
Data Rate: MCS0



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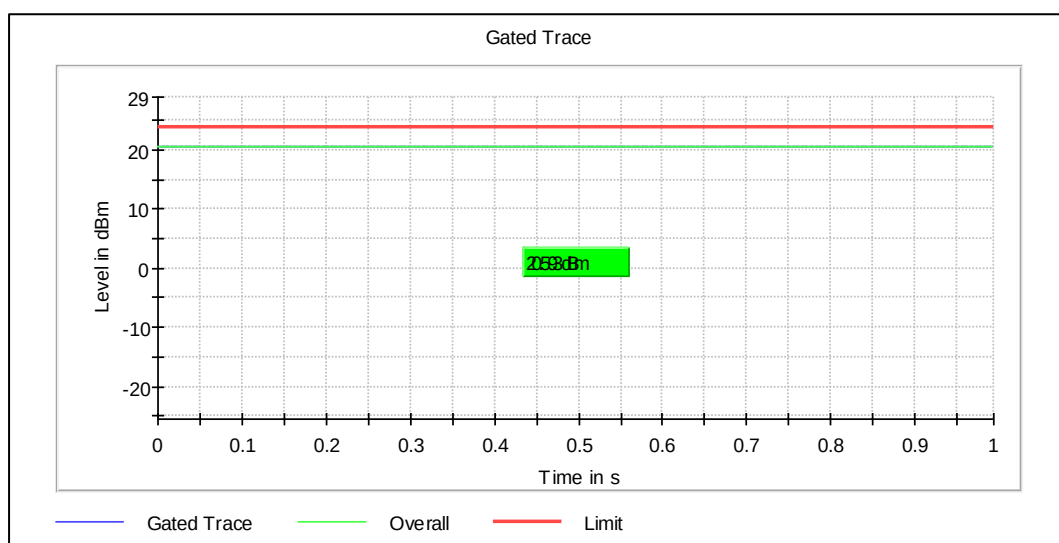


Channel Frequency 5745MHz

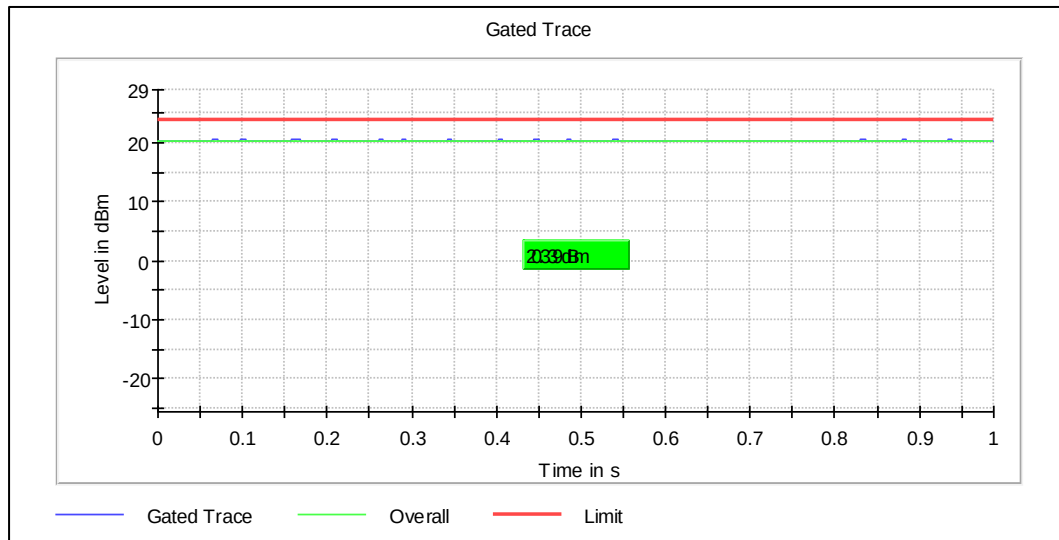


Channel Frequency 5825MHz

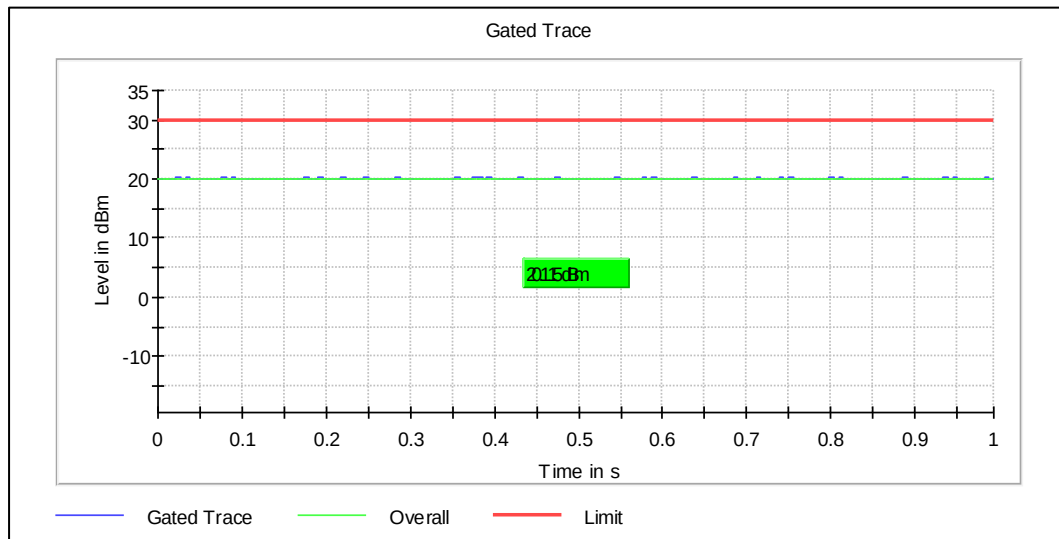
Data Rate: MCS7



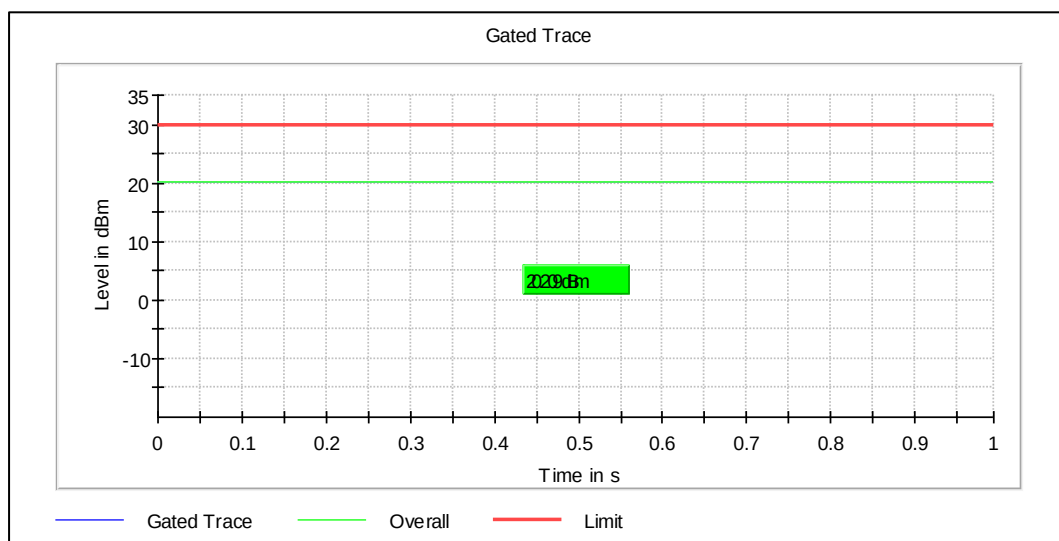
Channel Frequency 5180MHz



Channel Frequency 5240MHz



Channel Frequency 5745MHz



Channel Frequency 5825MHz

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Test Report No.:

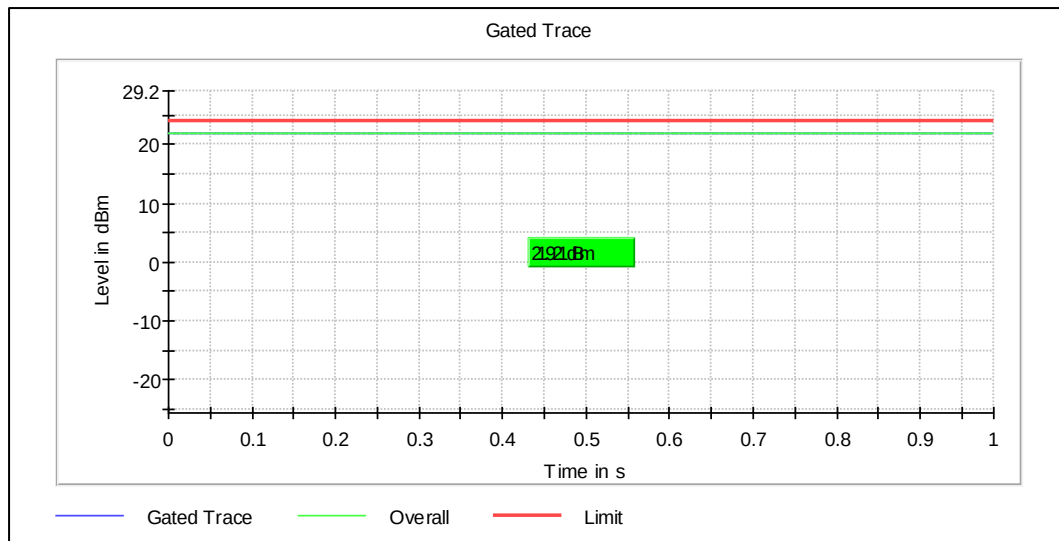
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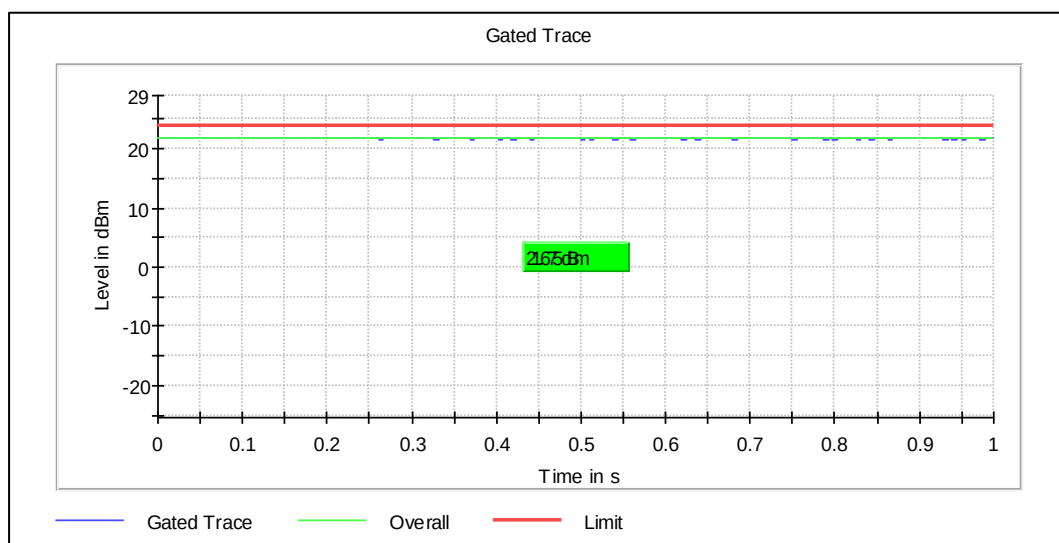
Modulation: 802.11ac-VHT20:

Data rate (Mbps)	Measured Frequency (MHz)	Measured Average Power (dBm)	FCC Power Limit (dBm)
ac_mode-VHT20-MCS0	5180	21.92	24.00
	5240	21.67	24.00
	5745	21.48	30.00
	5825	21.46	30.00
ac_mode-VHT20-MCS9	5180	19.64	24.00
	5240	19.40	24.00
	5745	19.11	30.00
	5825	19.34	30.00

Data Rate: MCS0

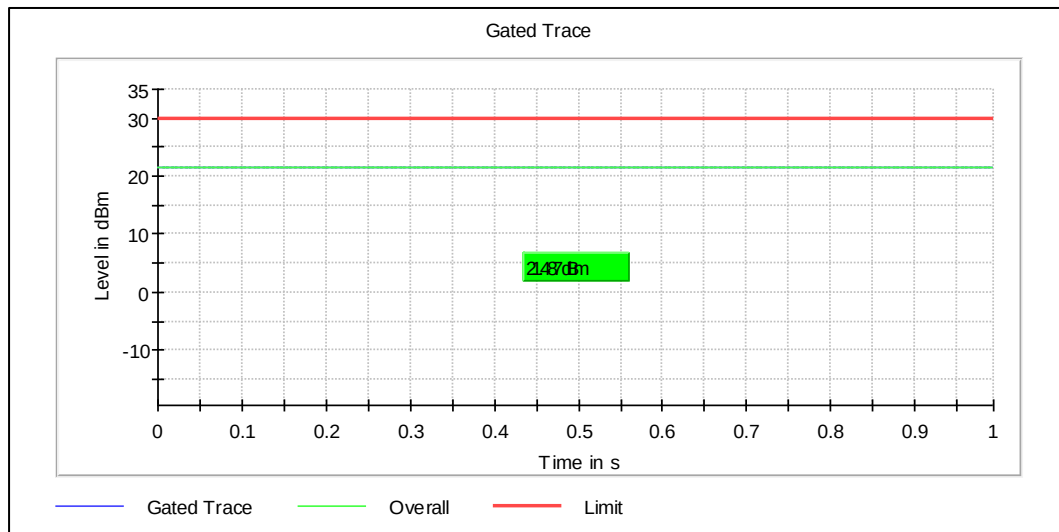


Channel Frequency 5180MHz

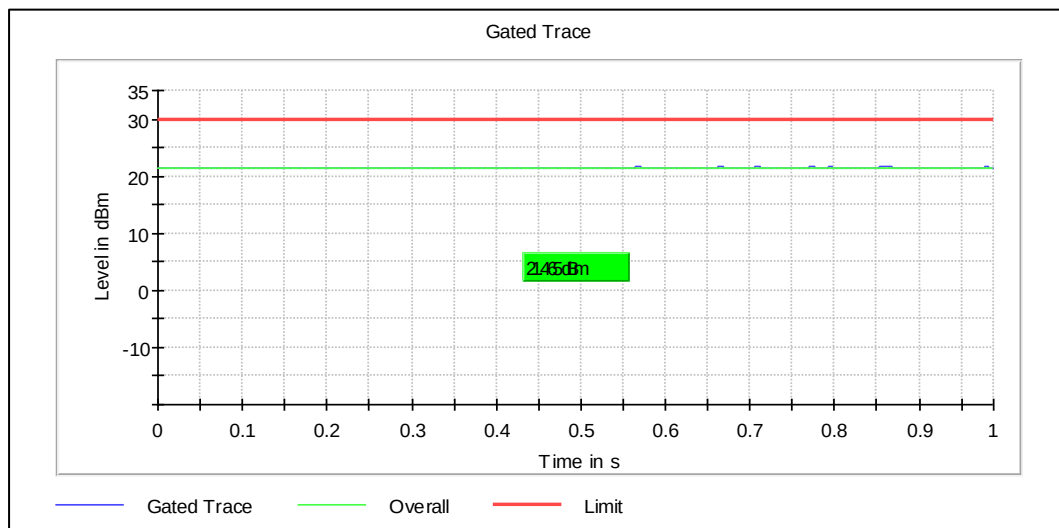


Channel Frequency 5240MHz

UNII-3

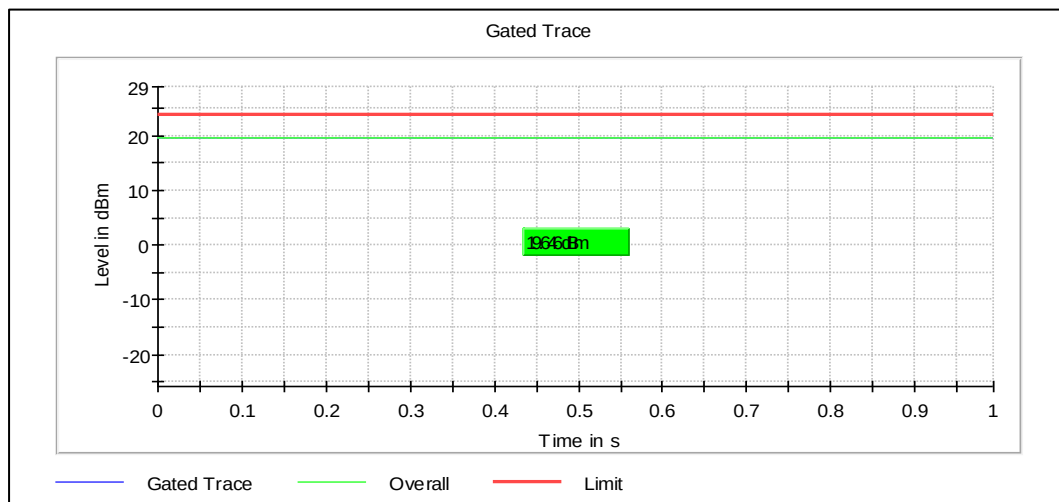


Channel Frequency 5745MHz

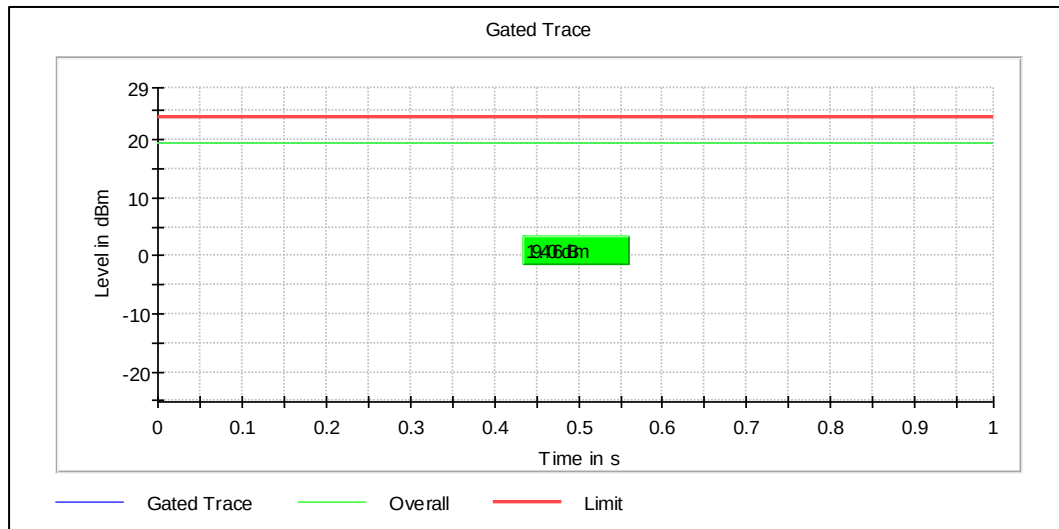


Channel Frequency 5825MHz

Data Rate: MCS8

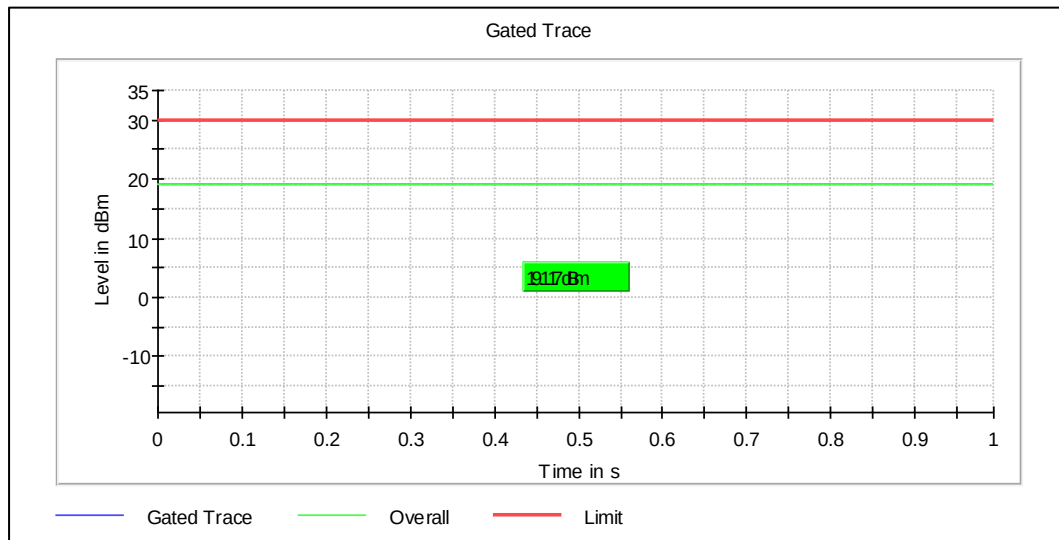


Channel Frequency 5180MHz

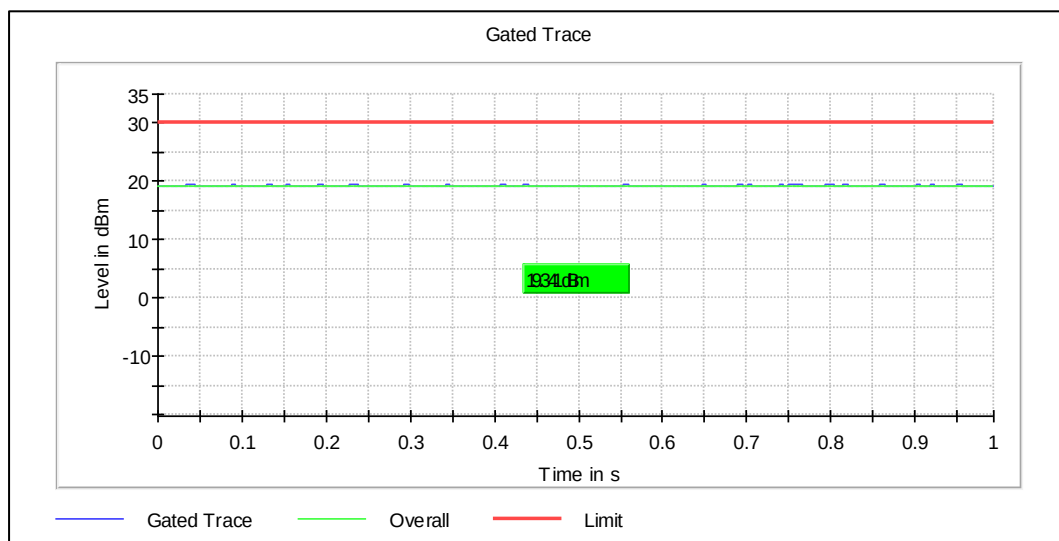


Channel Frequency 5240MHz

UNII-3



Channel Frequency 5745MHz



Channel Frequency 5825MHz

Prüfbericht - Nr.:
Test Report No.:

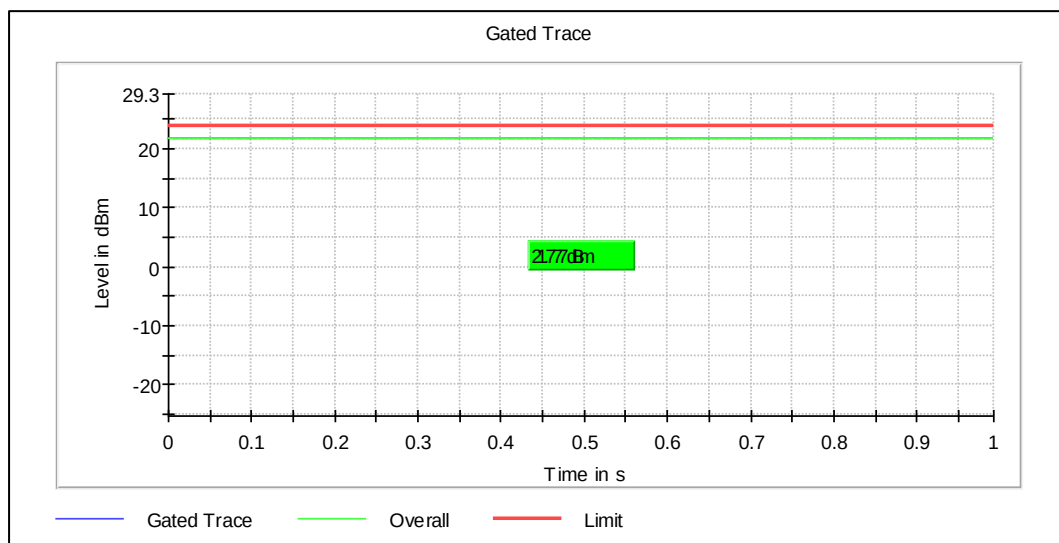
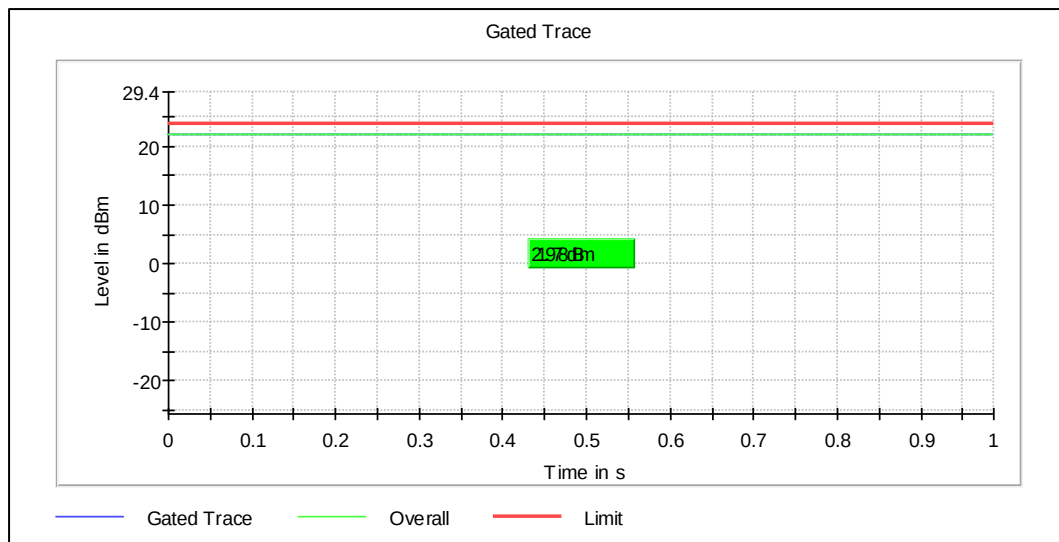
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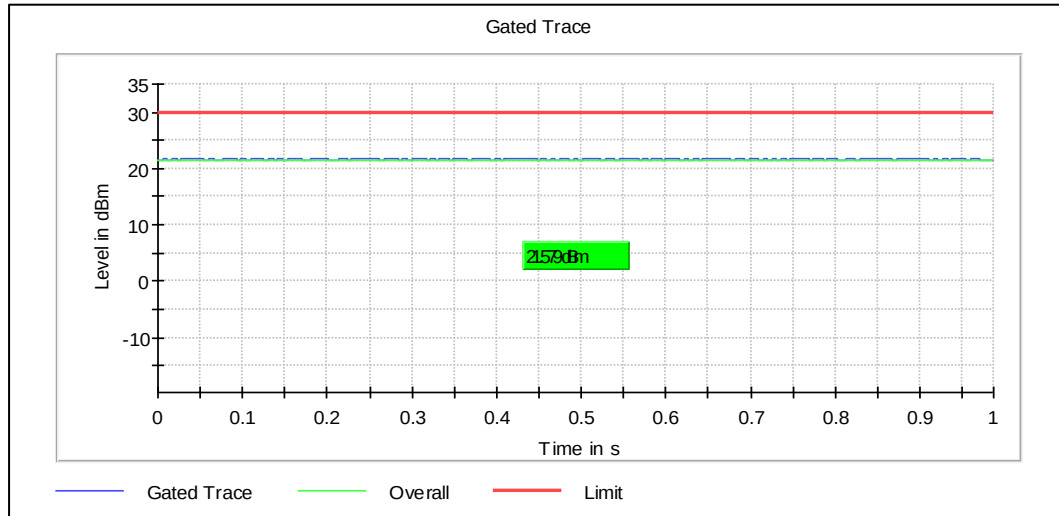
Modulation: 802.11ax-HE20:

Data rate (Mbps)	Measured Frequency (MHz)	Measured Average Power (dBm)	FCC Power Limit (dBm)
ax_mode-HE20-MCS0	5180	21.97	24.00
	5240	21.77	24.00
	5745	21.57	30.00
	5825	21.55	30.00
ax_mode-HE20-MCS11	5180	19.69	24.00
	5240	19.46	24.00
	5745	19.17	30.00
	5825	19.37	30.00

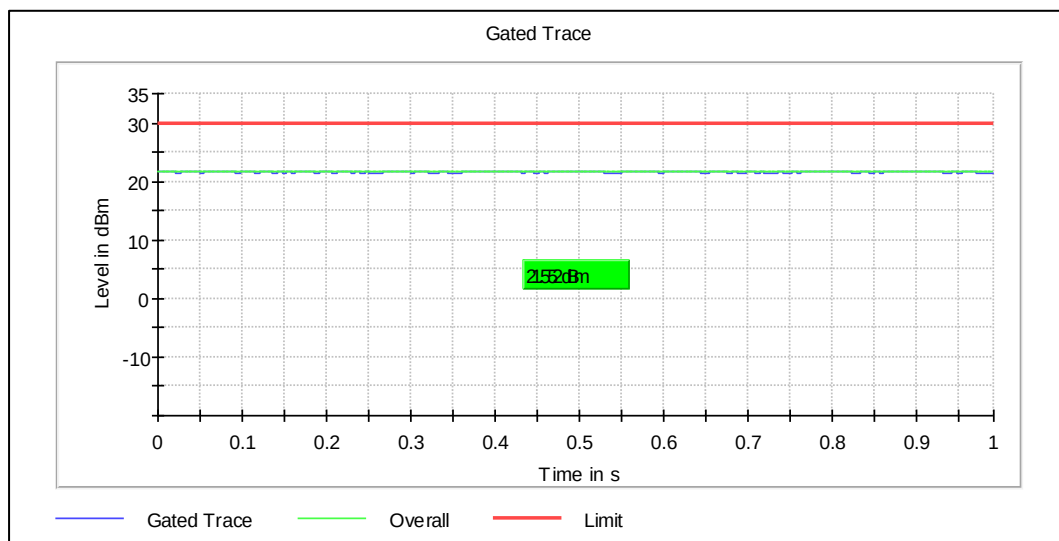
Data Rate: MCS0



UNII-3

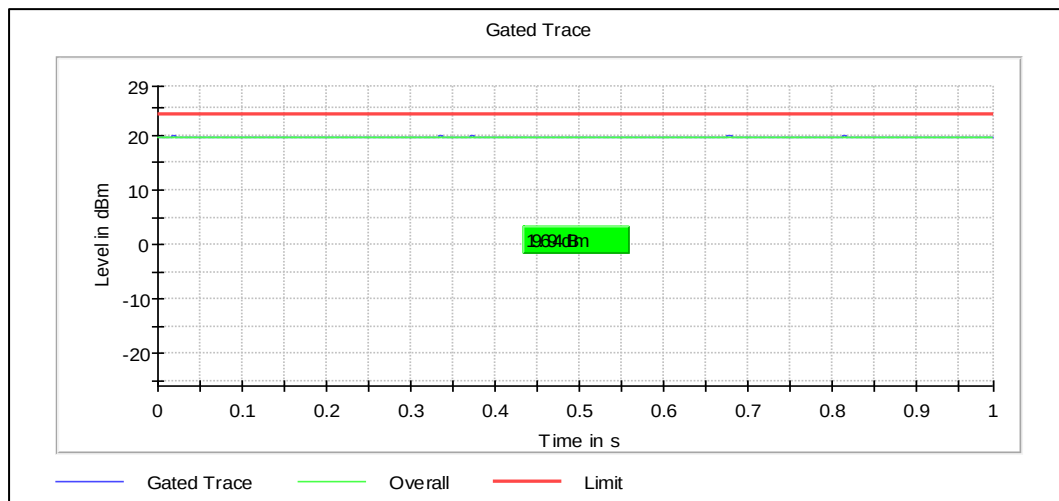


Channel Frequency 5745MHz

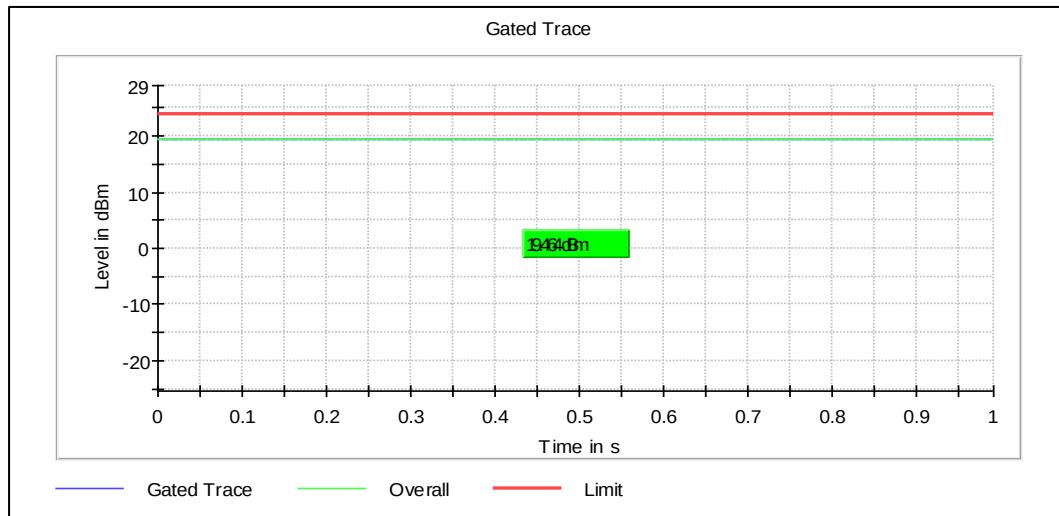


Channel Frequency 5825MHz

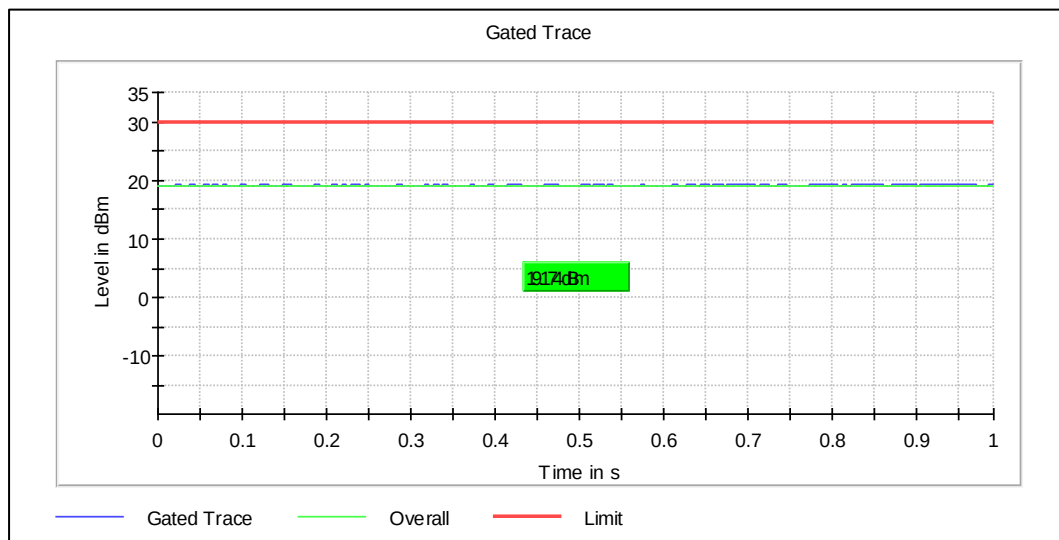
Data Rate: MCS11



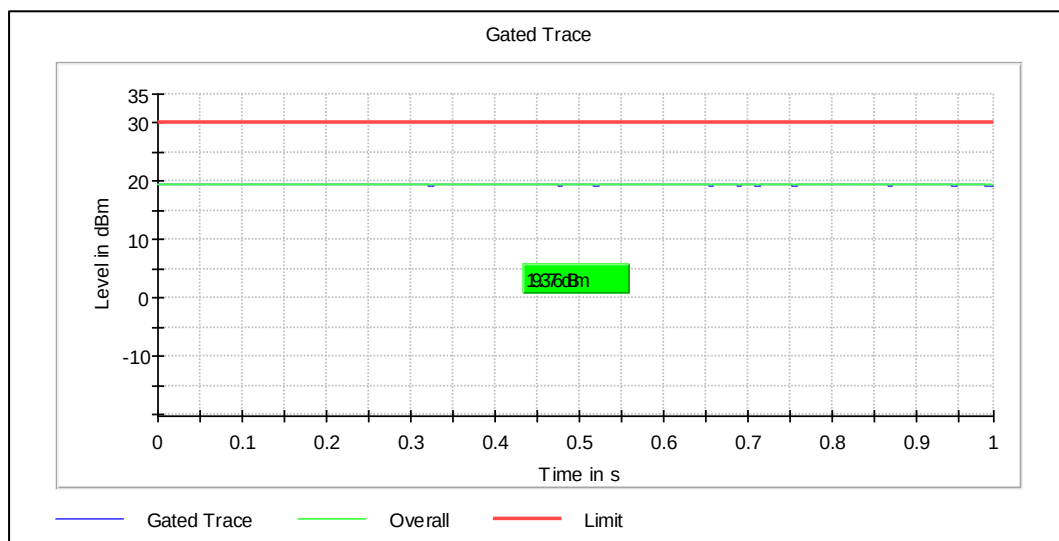
Channel Frequency 5180MHz



Channel Frequency 5240MHz



Channel Frequency 5745MHz



Channel Frequency 5825MHz

Prüfbericht - Nr.:
Test Report No.:

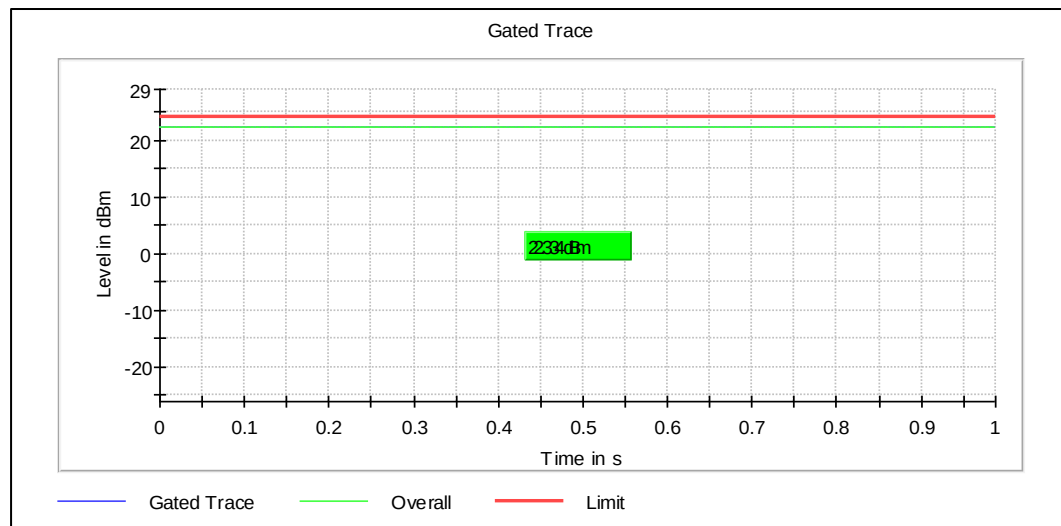
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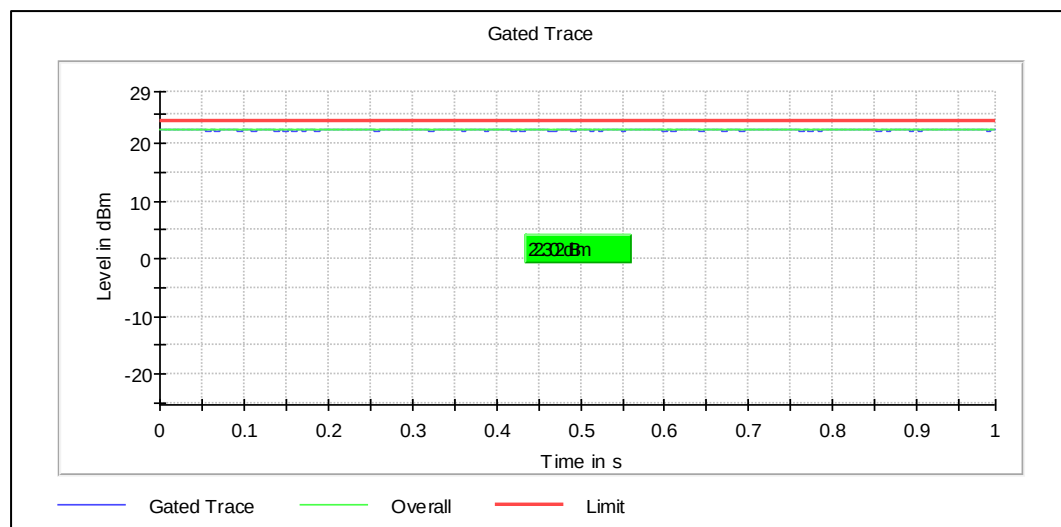
Modulation: 802.11n-HT40:

Data rate (Mbps)	Measured Frequency (MHz)	Measured Average Power (dBm)	FCC Power Limit (dBm)
n_mode-HT40_MCS0	5190	22.33	24.00
	5230	22.30	24.00
	5755	21.90	30.00
	5795	21.83	30.00
n_mode-HT40_MCS7	5190	20.67	24.00
	5230	20.56	24.00
	5755	20.14	30.00
	5795	20.10	30.00

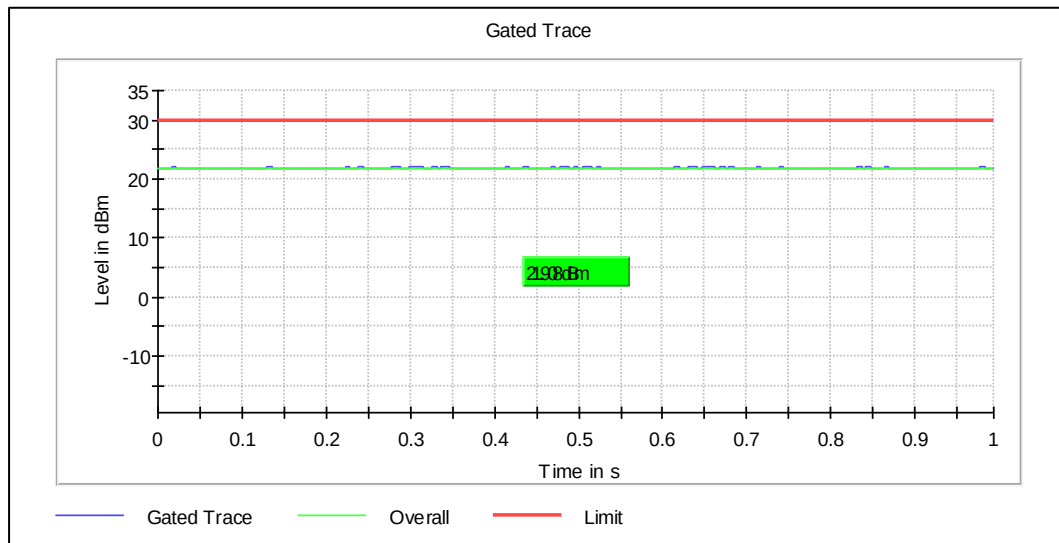
Data Rate: MCS0



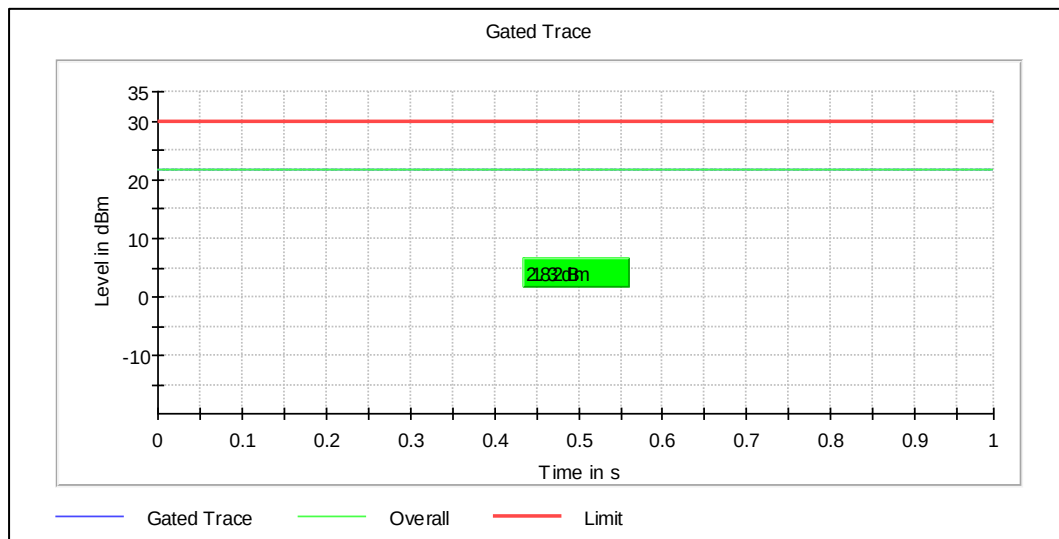
Channel Frequency 5190MHz



Channel Frequency 5230MHz

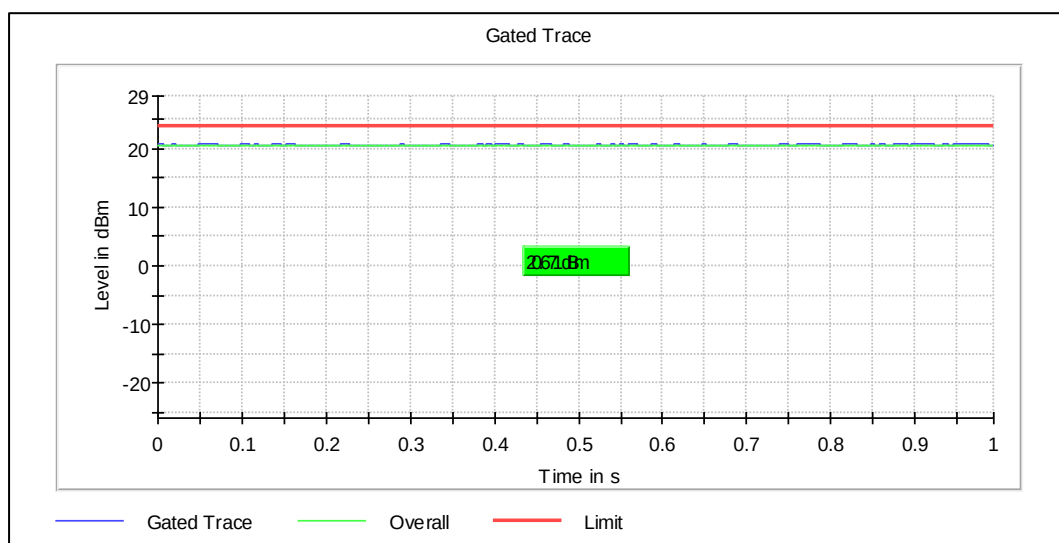


Channel Frequency 5755MHz

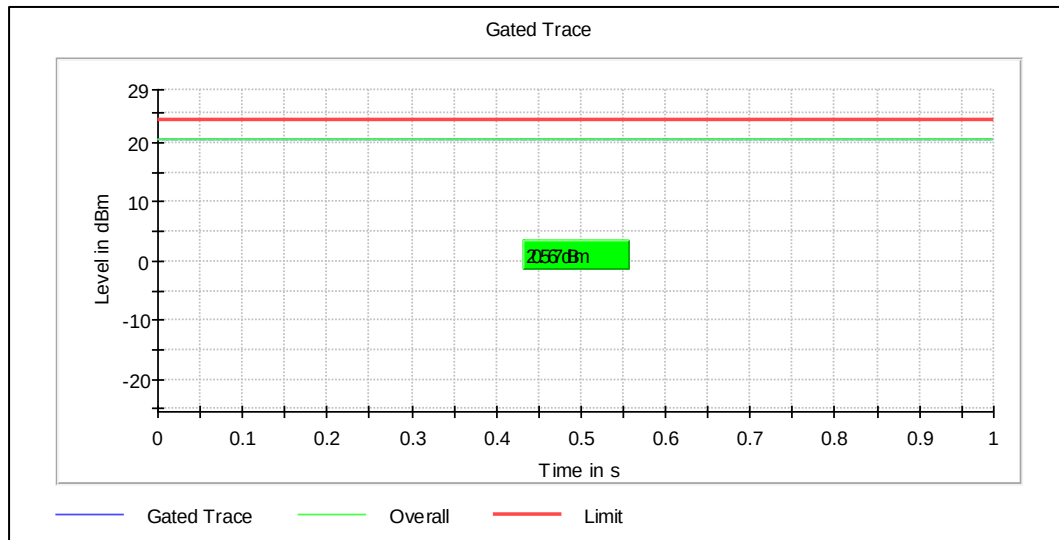


Channel Frequency 5795MHz

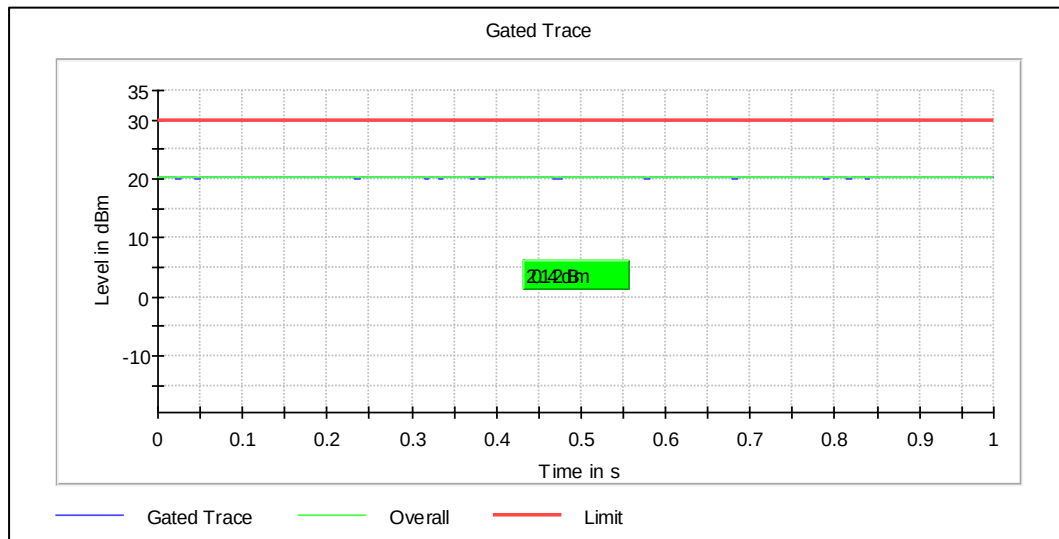
Data Rate: MCS7



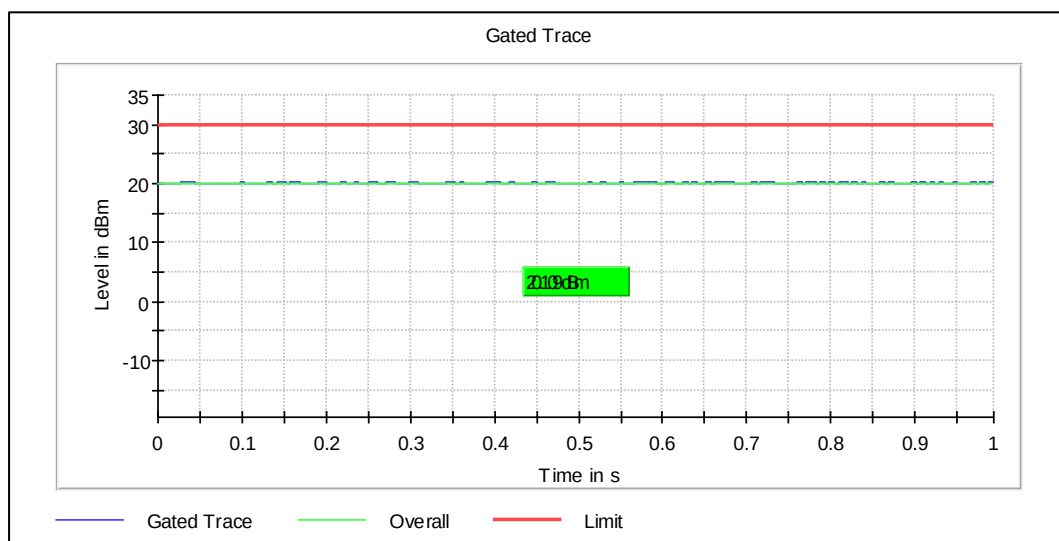
Channel Frequency 5190MHz



Channel Frequency 5230MHz



Channel Frequency 5755MHz



Channel Frequency 5795MHz

Prüfbericht - Nr.:
Test Report No.:

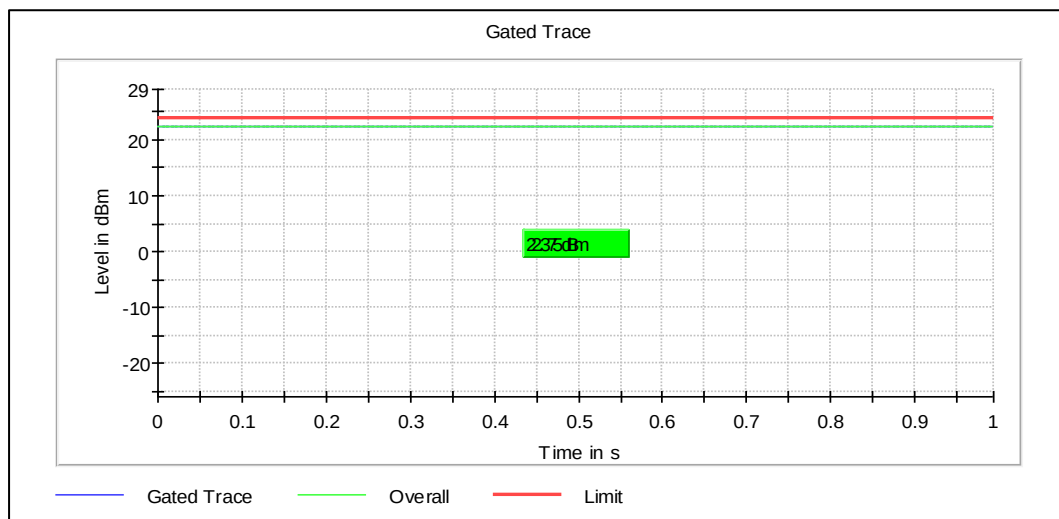
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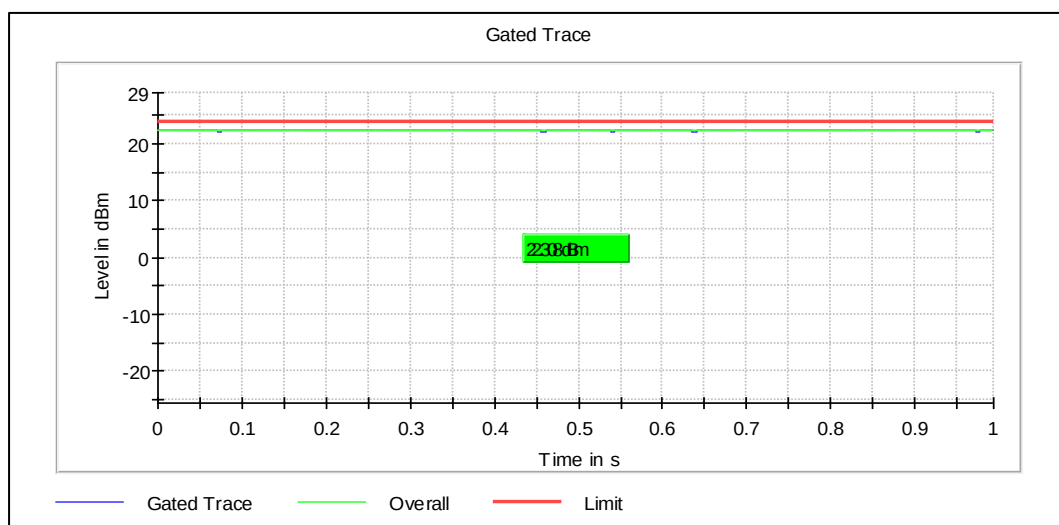
Modulation: 802.11ac-VHT40:

Data rate (Mbps)	Measured Frequency (MHz)	Measured Average Power (dBm)	FCC Power Limit (dBm)
ac_mode_VHT40_MCS0	5190	22.37	24.00
	5230	22.30	24.00
	5755	21.91	30.00
	5795	21.82	30.00
ac_mode_VHT40_MCS9	5190	19.74	24.00
	5230	19.68	24.00
	5755	19.20	30.00
	5795	19.17	30.00

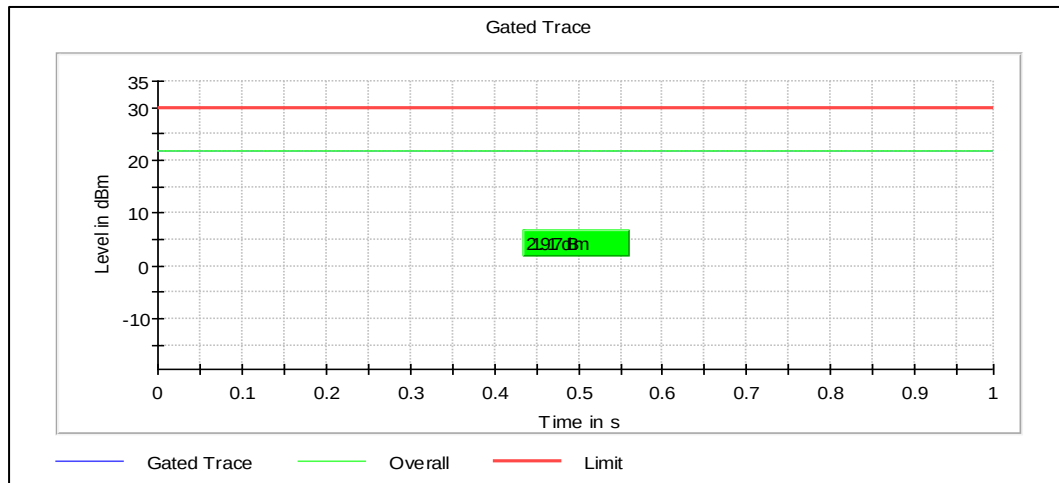
Data Rate: MCS0



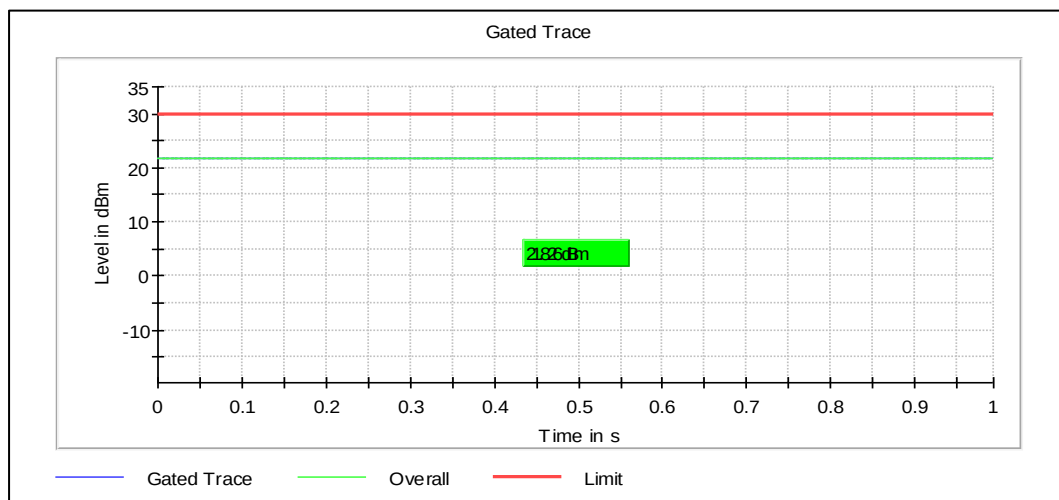
Channel Frequency 5190MHz



Channel Frequency 5230MHz

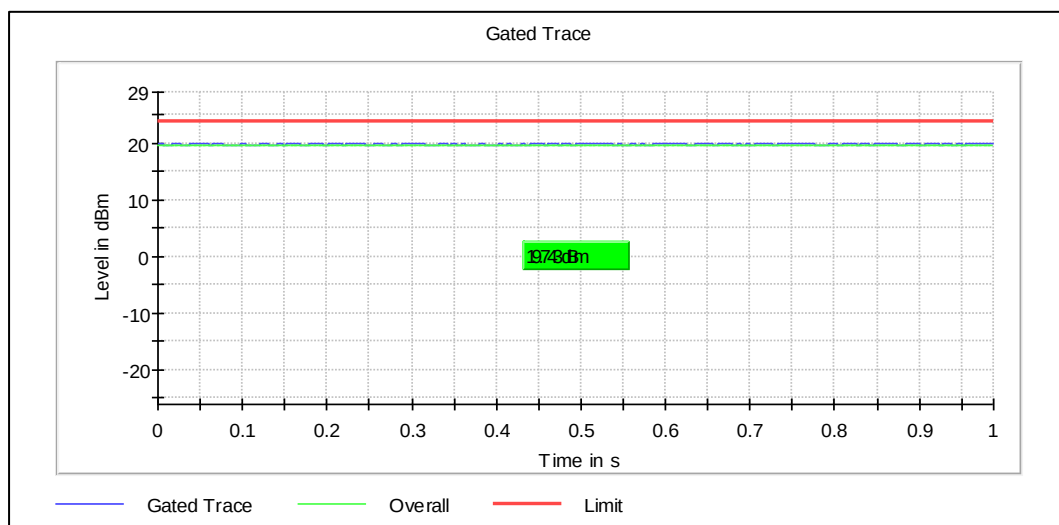


Channel Frequency 5755MHz

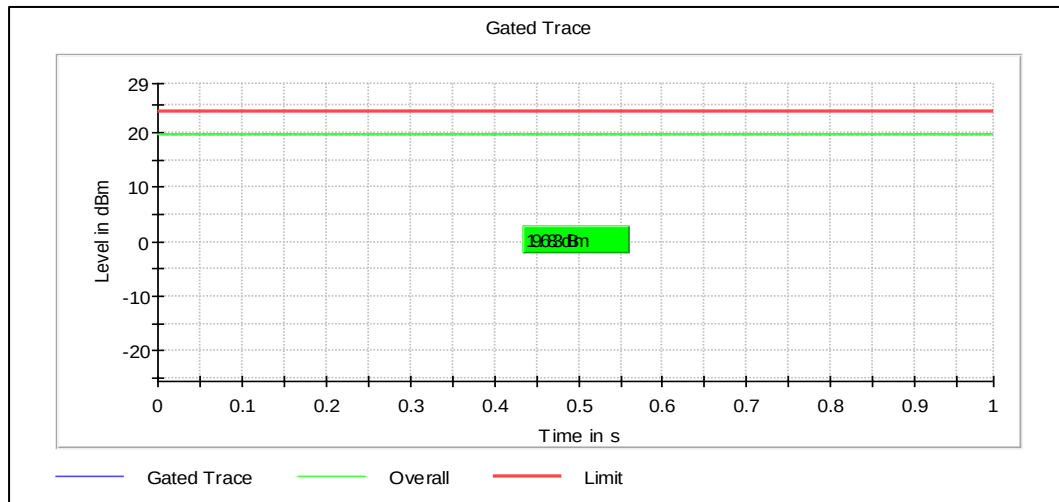


Channel Frequency 5795MHz

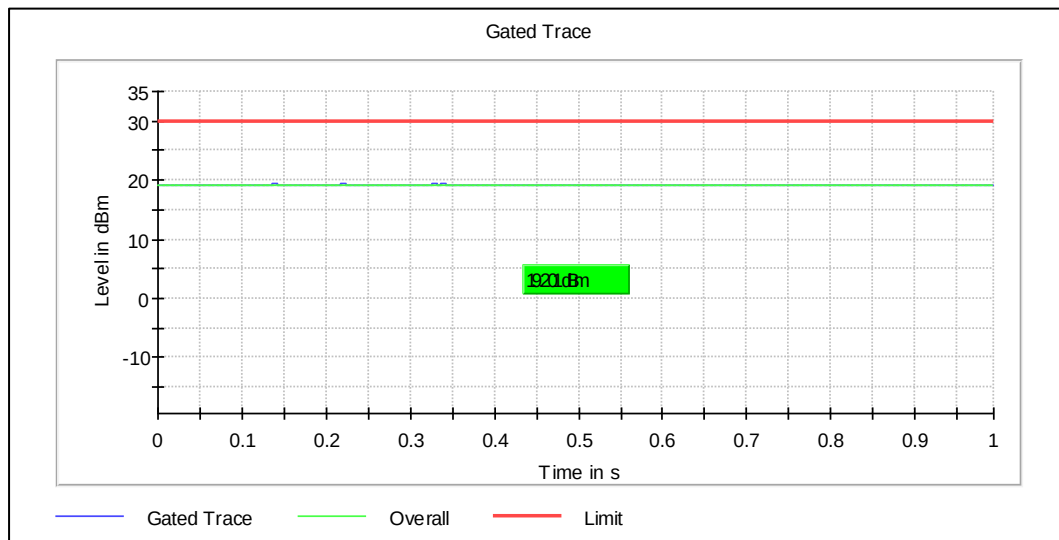
Data Rate: MCS9



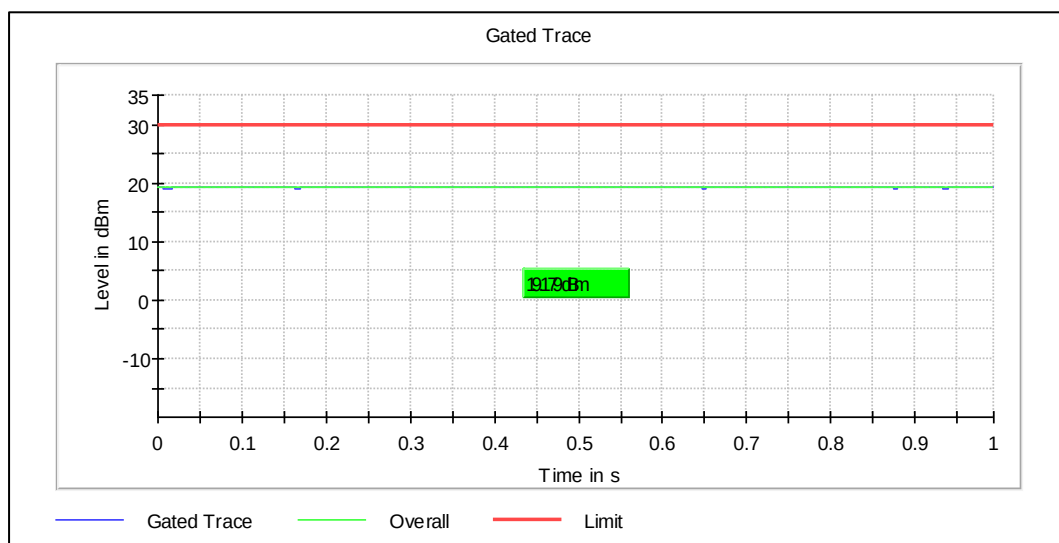
Channel Frequency 5190MHz



Channel Frequency 5230MHz



Channel Frequency 5755MHz



Channel Frequency 5795MHz

Prüfbericht - Nr.:
Test Report No.:

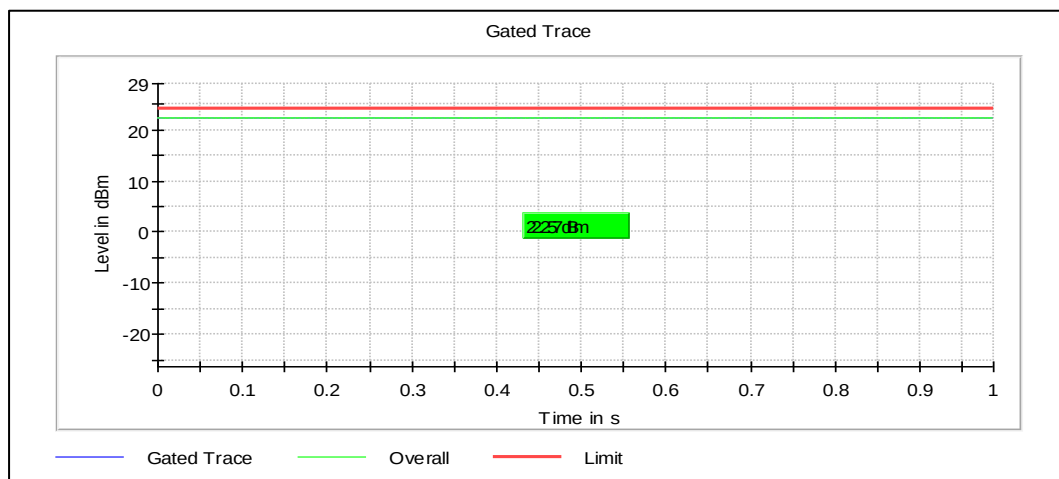
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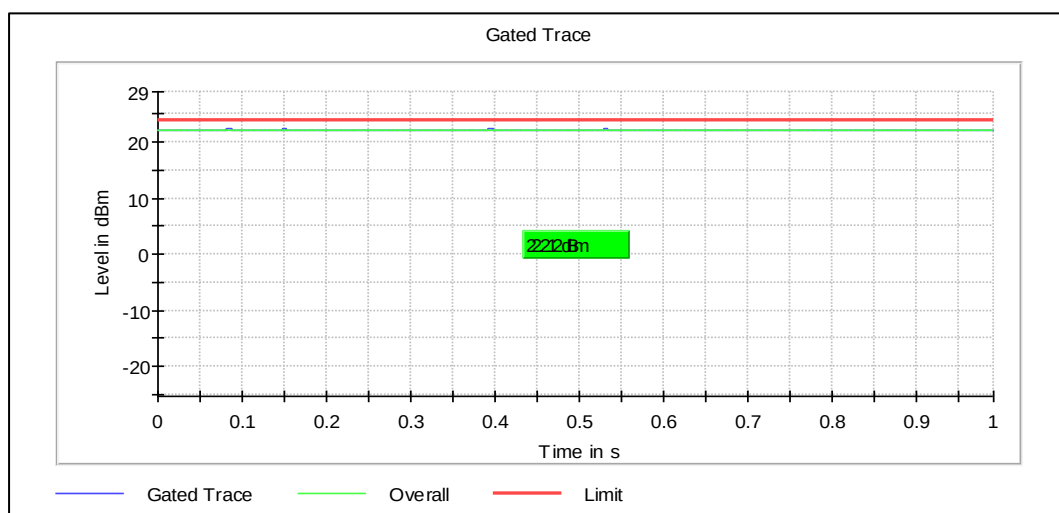
Modulation: 802.11ax-HE40:

Data rate (Mbps)	Measured Frequency (MHz)	Measured Average Power (dBm)	FCC Power Limit (dBm)
ax_mode_ HE40_ _MCS0	5190	22.25	24.00
	5230	22.21	24.00
	5755	21.79	30.00
	5795	21.72	30.00
ax_mode_ HE40_ MCS11	5190	18.26	24.00
	5230	18.19	24.00
	5755	17.82	30.00
	5795	17.74	30.00

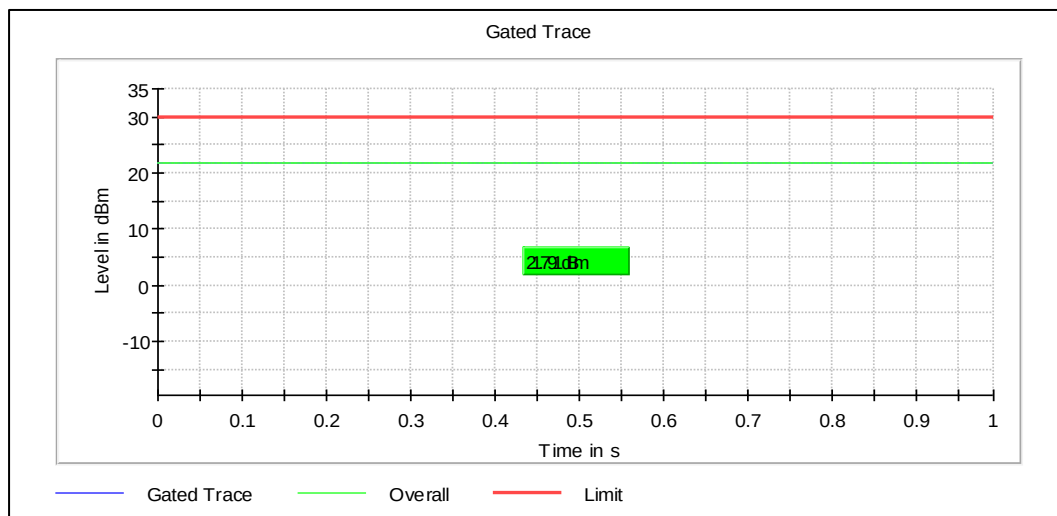
Data Rate: MCS0



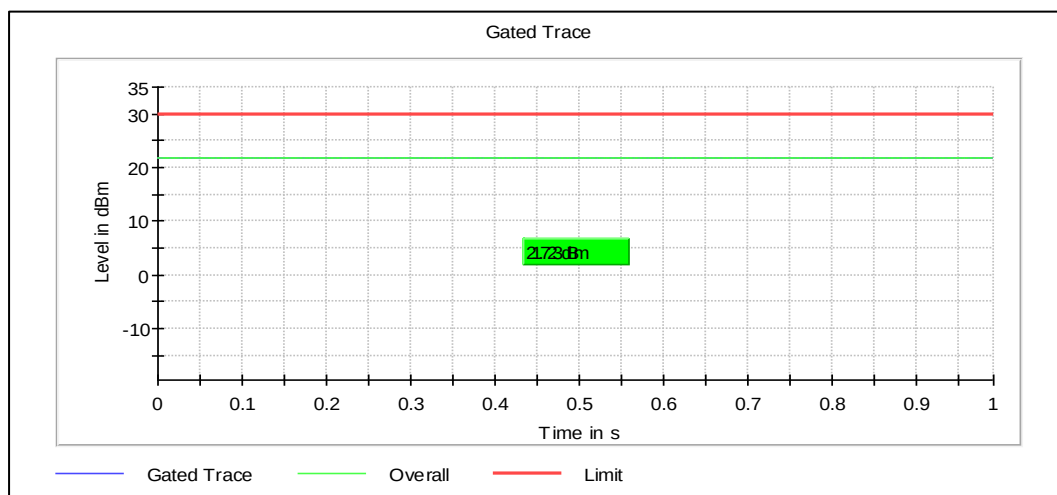
Channel Frequency 5190MHz



Channel Frequency 5230MHz

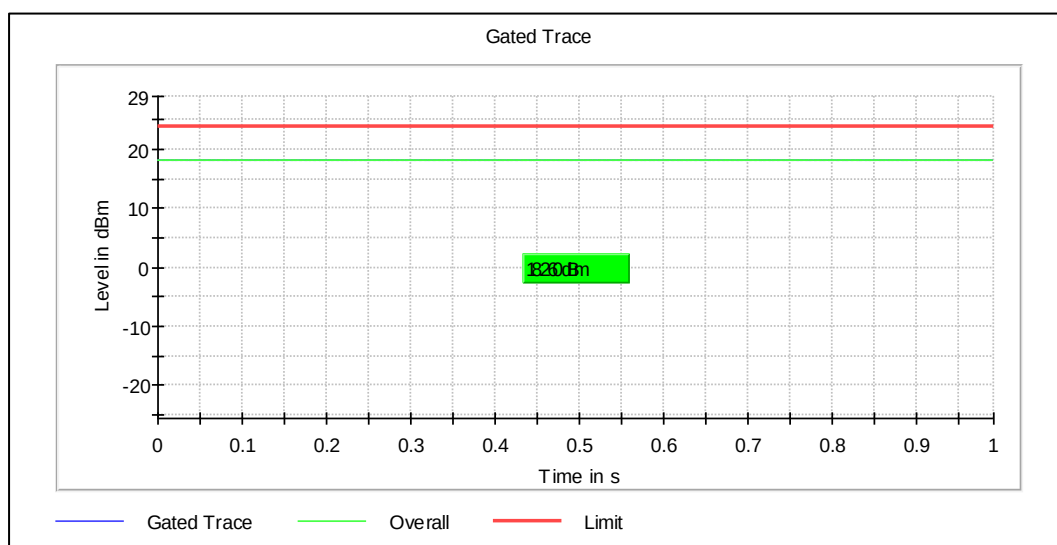


Channel Frequency 5755MHz

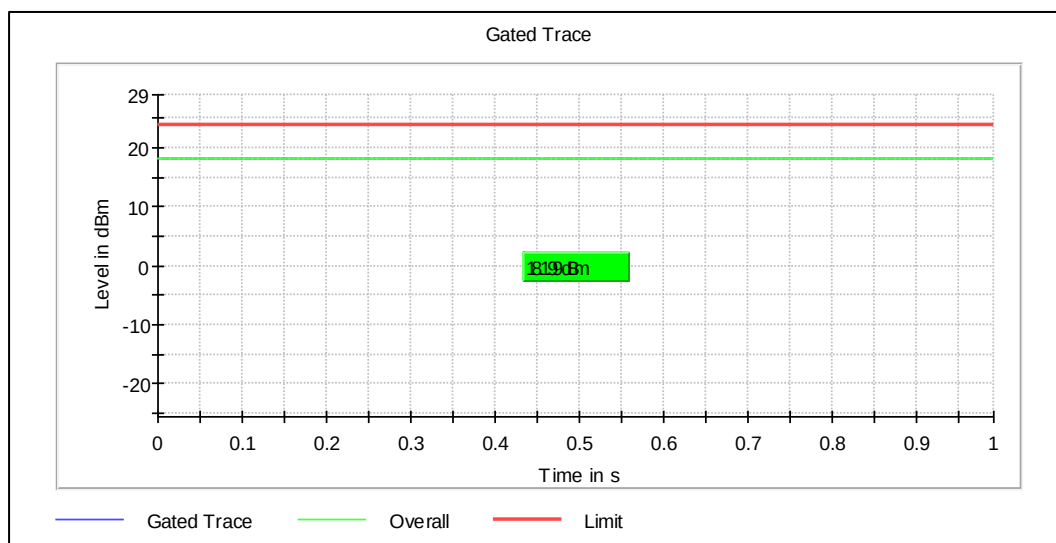


Channel Frequency 5795MHz

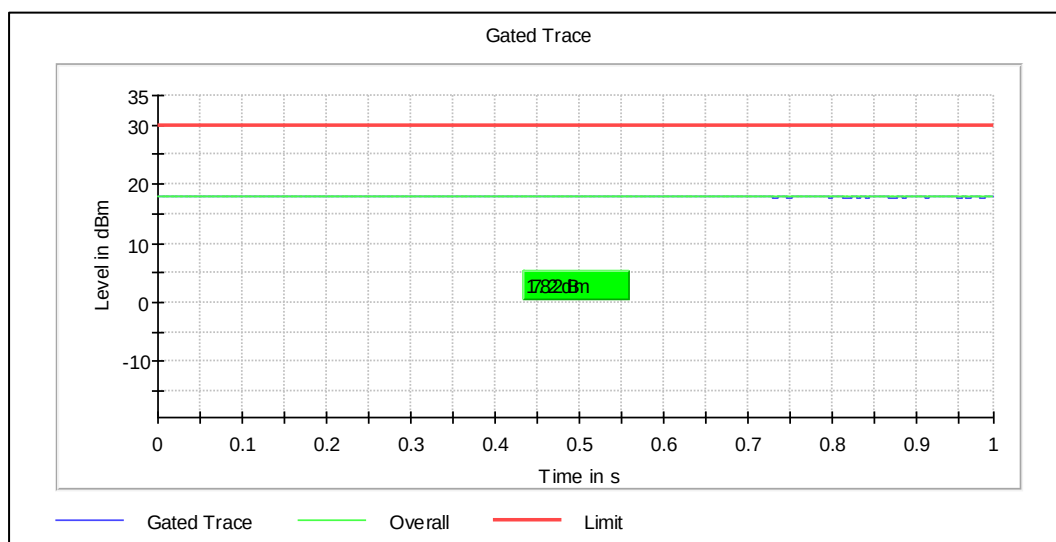
Data Rate: MCS11



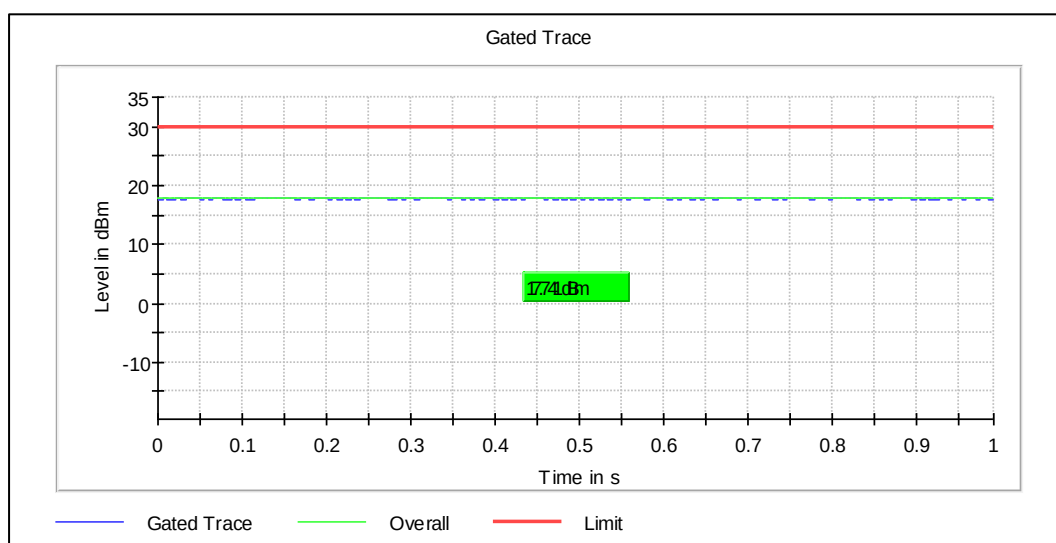
Channel Frequency 5190MHz



Channel Frequency 5230MHz



Channel Frequency 5755MHz



Channel Frequency 5795MHz

Prüfbericht - Nr.:
Test Report No.:

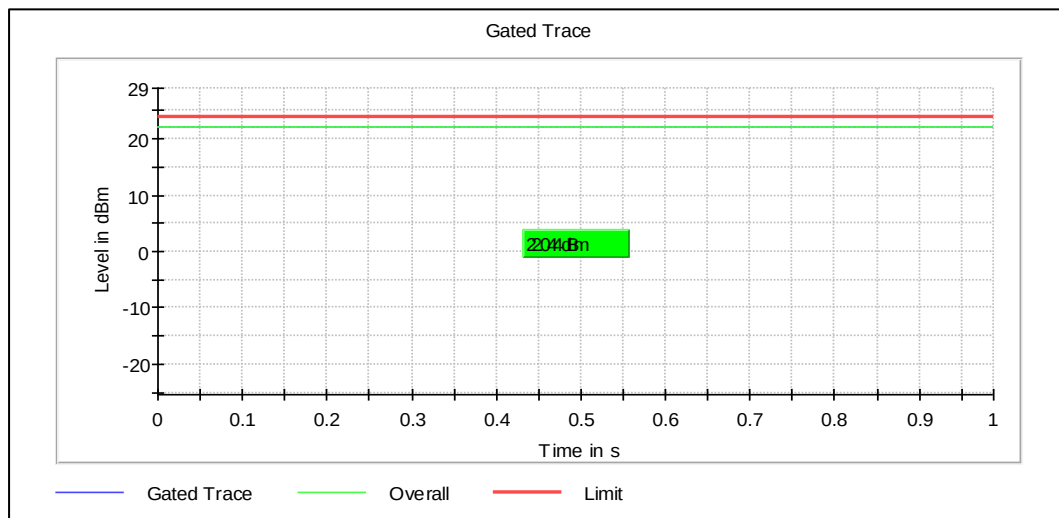
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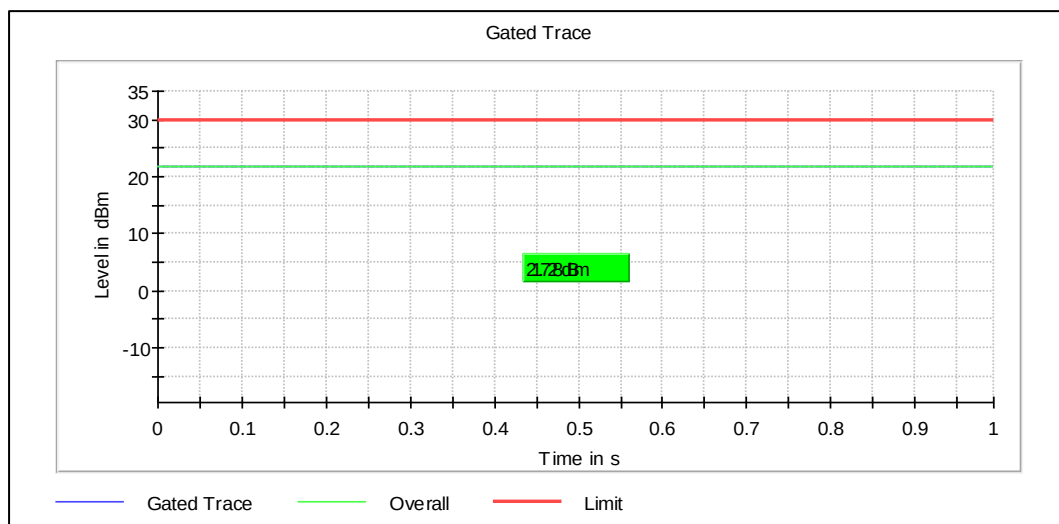
Modulation: 802.11ac-VHT80:

Data rate (Mbps)	Measured Frequency (MHz)	Measured Average Power (dBm)	FCC Power Limit (dBm)
ac_mode-VHT80-MCS0	5210	22.04	24.00
	5755	21.72	30.00
ac_mode-VHT80-MCS9	5210	17.95	24.00
	5755	17.62	30.00

Data Rate: MCS0

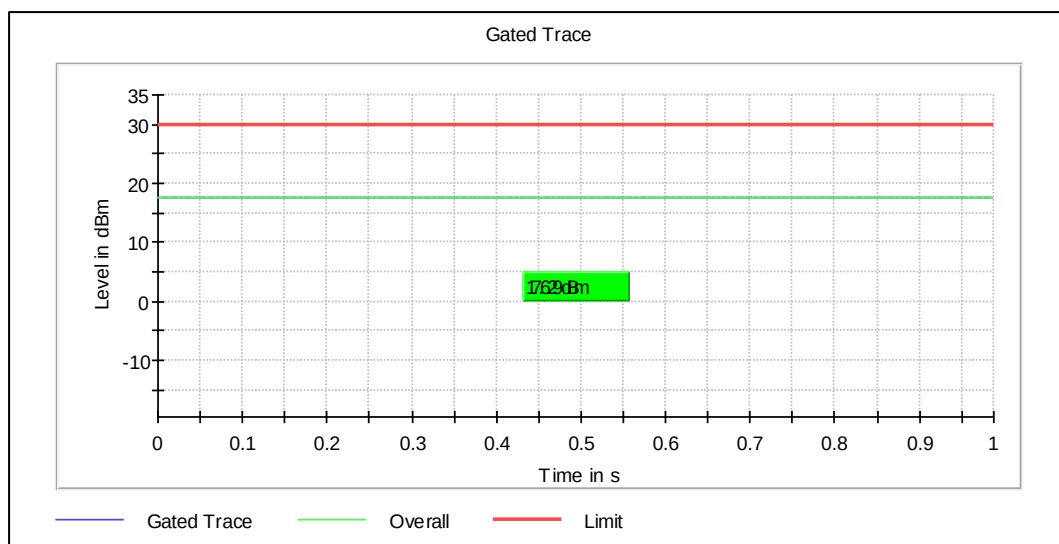
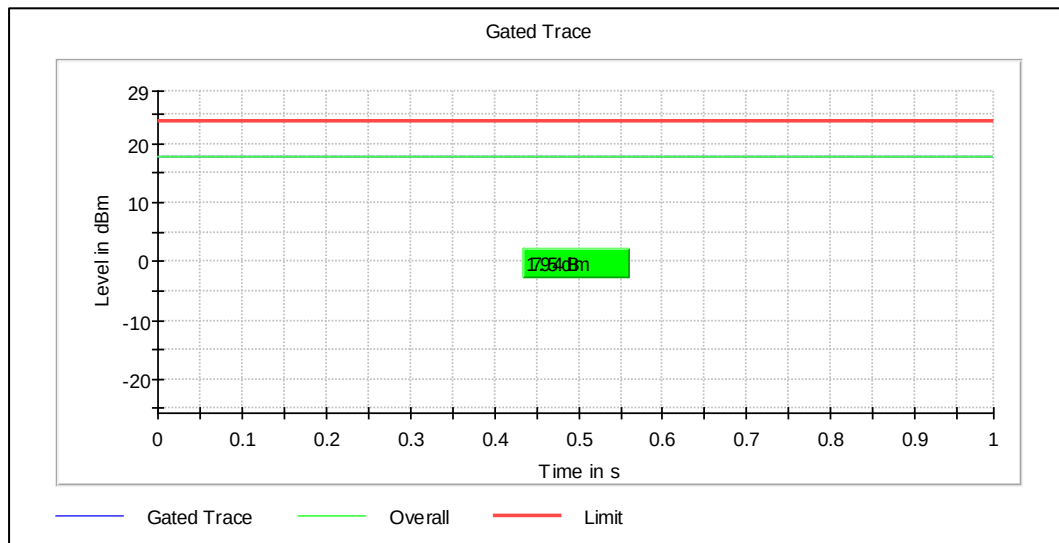


Channel Frequency 5210MHz



Channel Frequency 5775MHz

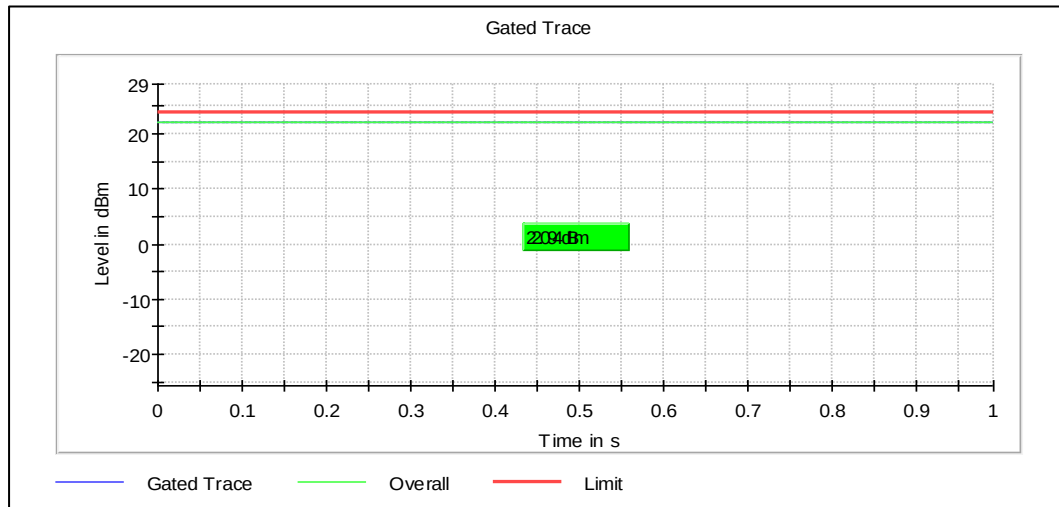
Data Rate: MCS9



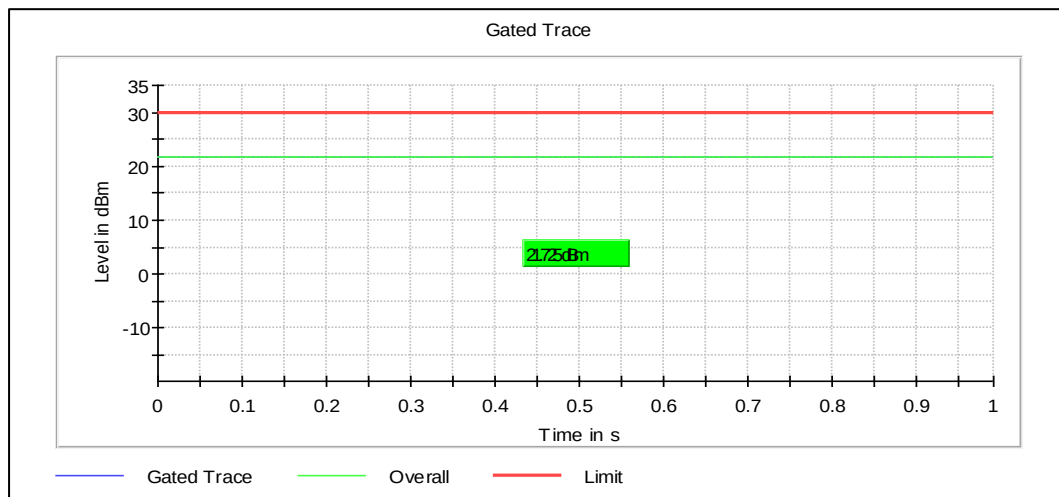
Modulation: 802.11ax-HE80:

Data rate (Mbps)	Measured Frequency (MHz)	Measured Average Power (dBm)	FCC Power Limit (dBm)
ax_mode-VHT80-MCS0	5210	22.09	24.00
	5755	21.72	30.00
ax_mode-VHT80-MCS11	5210	17.77	24.00
	5755	17.50	30.00

Data Rate: MCS0

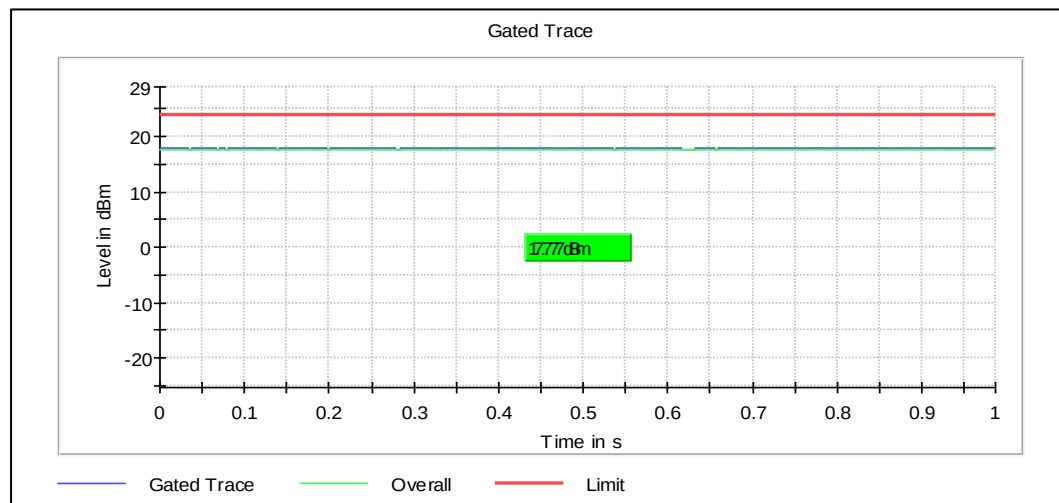


Channel Frequency 5210MHz

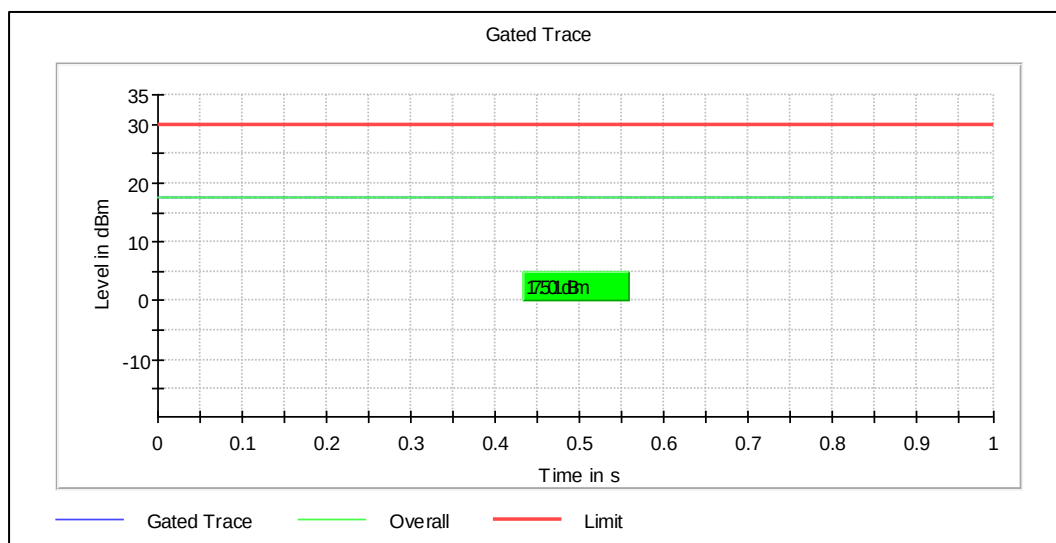


Channel Frequency 5775MHz

Data Rate: MCS11



Channel Frequency 5210MHz



Channel Frequency 5775MHz

Note: Testing is performed in MIMO conditions only.

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7.3 Maximum Power Spectral Density

Result

Pass

Test Specification FCC part 15 Subpart C 15.407 (a)

Test Method Subclause 12.5 of ANSI C63.10

Measurement Bandwidth 100kHz/300kHz/1 MHz

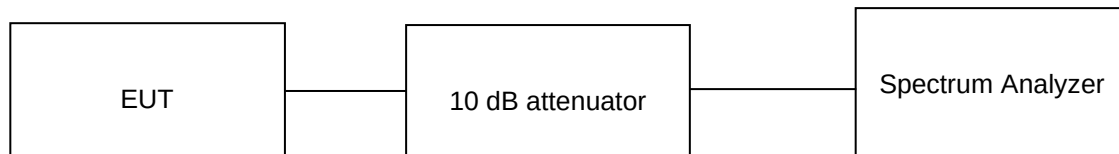
Detector Average sample detector

Port of testing Antenna port

Requirement for FCC
1. For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 MHz band

2. For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band

Test Method:



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The following procedure shall be used:

1. Set center frequency to the nominal EUT channel center frequency
2. Set span to encompass the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal
3. Set RBW = 1MHz (5.15-5.25 GHz band) / 500kHz (5.725-5.85 GHz band)
4. Set VBW $\geq 3 \times$ RBW
5. Number of points in sweep $\geq 2 \times$ span / RBW. (This ensures that bin-to-bin spacing is $\leq$ RBW/2, so that narrowband signals are not lost between frequency bins.)
6. Sweep time = auto
7. Detector = power averaging (rms), if available. Otherwise, use sample detector mode
8. Do not use sweep triggering. Allow the sweep to "free run."
9. Trace average at least 100 traces and Compute power by integrating the spectrum across the EBW
10. Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission)
11. If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 kHz bandwidth, the following adjustments to the procedures apply:
 - a. Set RBW = 300 kHz
 - b. Set VBW ≥ 3 RBW
 - c. If measurement bandwidth of Maximum PSD is specified in 500 kHz

$$\text{PSD bandwidth correction Factor} = 10 * \log(500 \text{ kHz} / \text{RBW})$$

Test Condition:

Normal Test Condition:

Temperature (Norm) = + 25 °C Voltage = 3.8V DC through AC to DC adaptor Relative humidity: 62%

KDB Guidelines applied:

Measurements were made as per section F in KDB 789033 D02 General UNII Test Procedures New Rules v02r01

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Note:

1. All the losses are included during measurement and final values are mentioned in the test report
2. Duty cycle correction factor is considered in Final Average power
Duty cycle Correction factor = $10 \cdot \log(1/X)$ Where X is Duty Cycle
3. This product do not support additional beamforming gain / directional gain, it uses signal antenna and hence directional gain of the single antenna is (1.60dBi)

Modulation: 802.11a – UNII 1

Data rate (Mbps)	Measured Frequency (MHz)	Measured Average PSD 1 (dBm/1MHz)	Measured Average PSD 2 (dBm/1MHz)	Total Chain1 + Chain2 PSD	Duty Cycle X %	Duty cycle correction factor (dB)	Final PSD (dBm/1MHz)	FCC PSD Limit (dBm/1MHz)
a_mode-6Mbps	5180	7.93	7.72	1.83	99.21	0.03	10.84	11.00
	5240	7.76	7.83	4.98	99.21	0.03	10.81	11.00
a_mode-54Mbps	5180	6.12	6.92	1.07	86.38	0.64	9.55	11.00
	5240	6.21	6.61	5.12	86.56	0.63	9.42	11.00

Modulation: 802.11a – UNII 3

Data rate (Mbps)	Measured Frequency (MHz)	Measured Average PSD 1 (dBm/0.3MHz)	Measured Average PSD 2 (dBm/0.3MHz)	Total Chain1 + Chain2 PSD (dBm/0.3MHz)	Duty Cycle X %	Duty cycle correction factor (dB)	Bandwidth Correction factor (dB)	PSD (dBm/0.5MHz)	FCC PSD Limit (dBm/0.5MHz)
a_mode-6Mbps	5745	2.23	2.80	5.53	99.22	0.03	2.22	7.79	30.00
	5825	0.80	3.05	5.08	99.22	0.03	2.22	7.33	30.00
a_mode-54Mbps	5745	0.10	1.97	4.15	85.94	0.66	2.22	7.02	30.00
	5825	0.17	2.03	4.21	86.20	0.64	2.22	7.07	30.00

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Test Report No.:

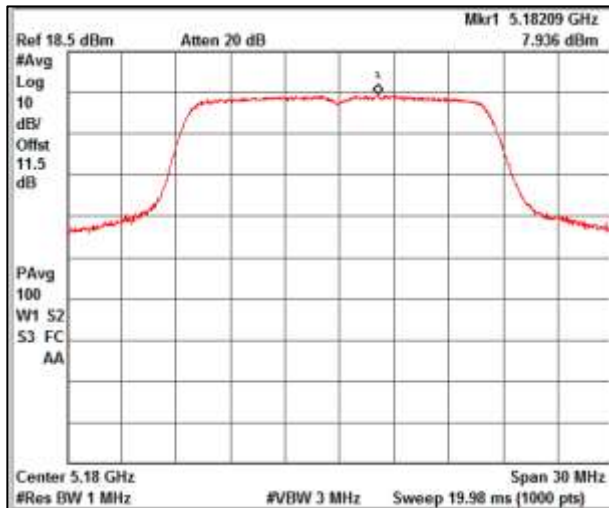
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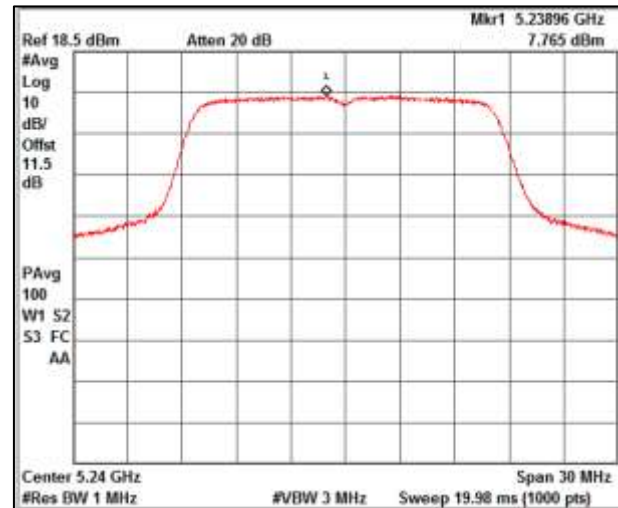
Chain-1

Modulation: 802.11a

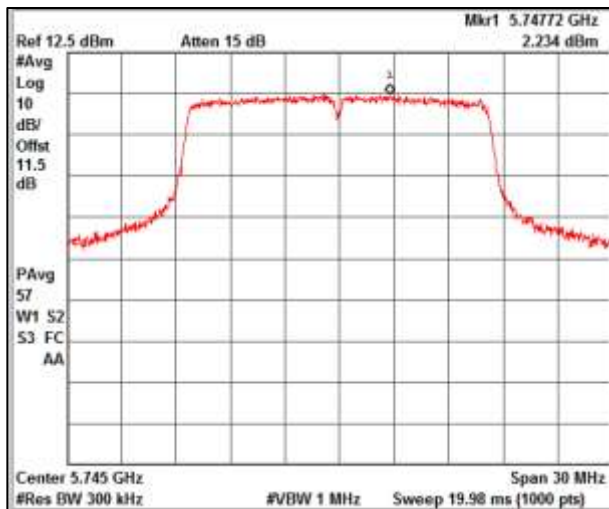
Data rate: 6Mbps



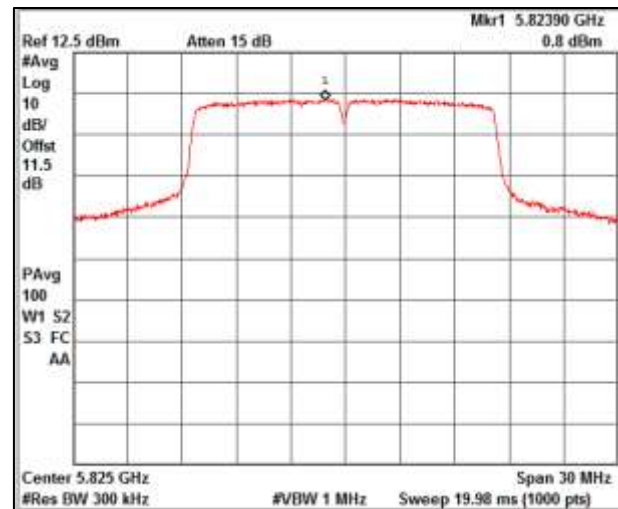
Channel Frequency-5180MHz



Channel Frequency-5240MHz

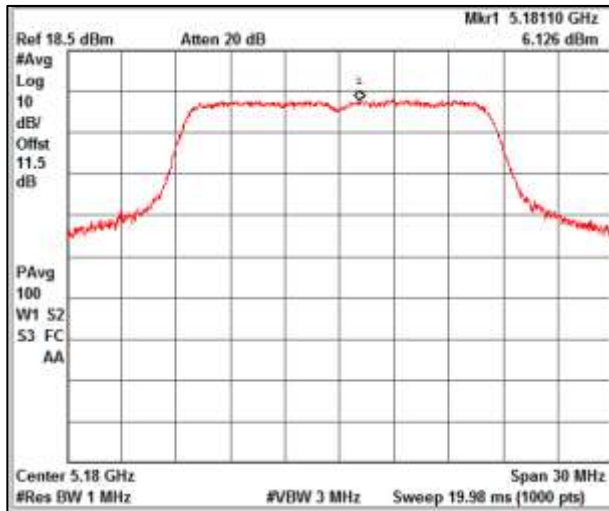


Channel Frequency-5745MHz

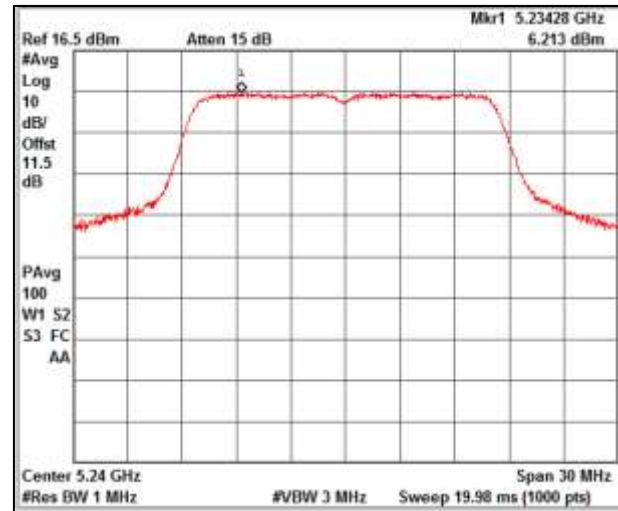


Channel Frequency-5825MHz

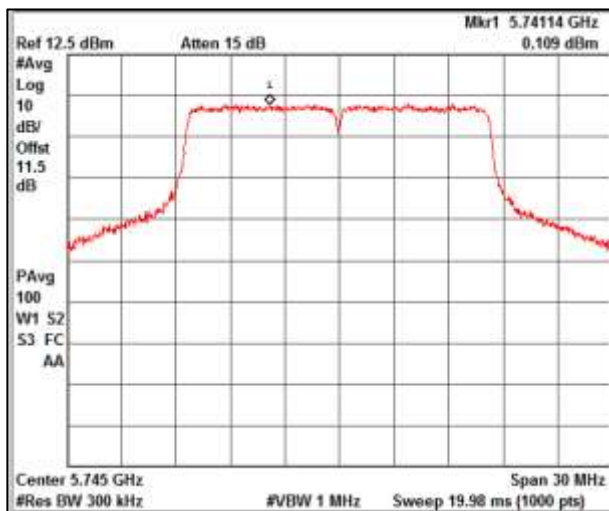
Data rate: 54Mbps



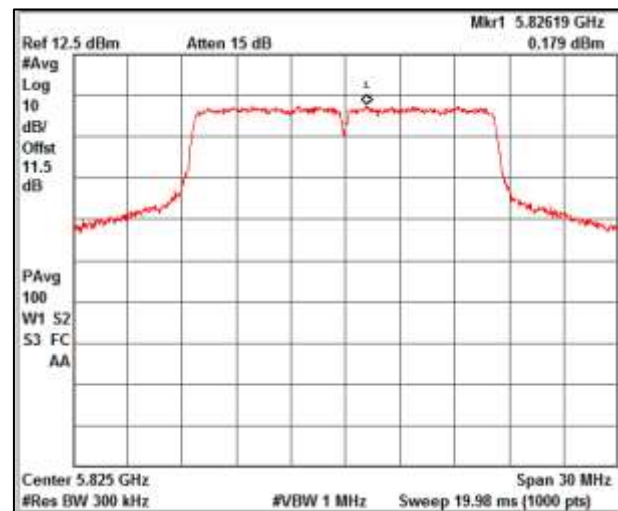
Channel Frequency-5180MHz



Channel Frequency-5240MHz



Channel Frequency-5745MHz



Channel Frequency-5825MHz

Prüfbericht - Nr.:
Test Report No.:

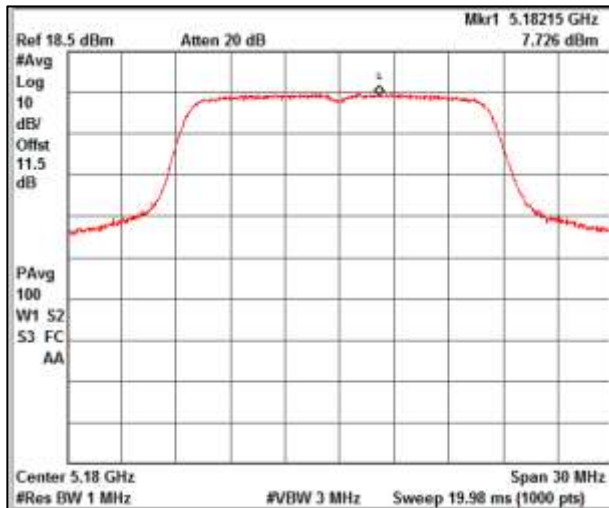
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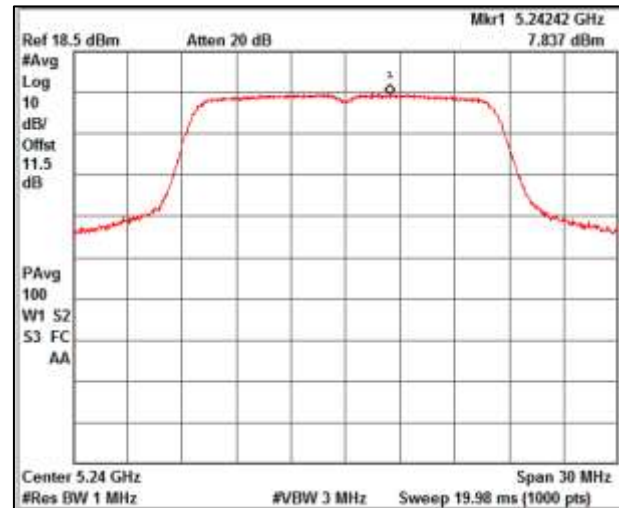
Chain-2

Modulation: 802.11a

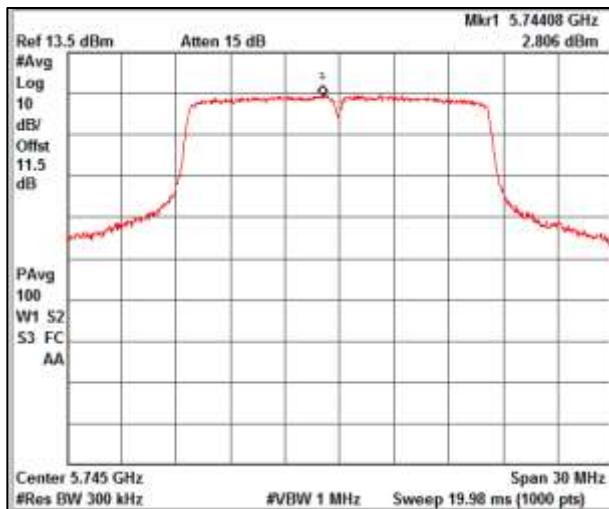
Data rate: 6Mbps



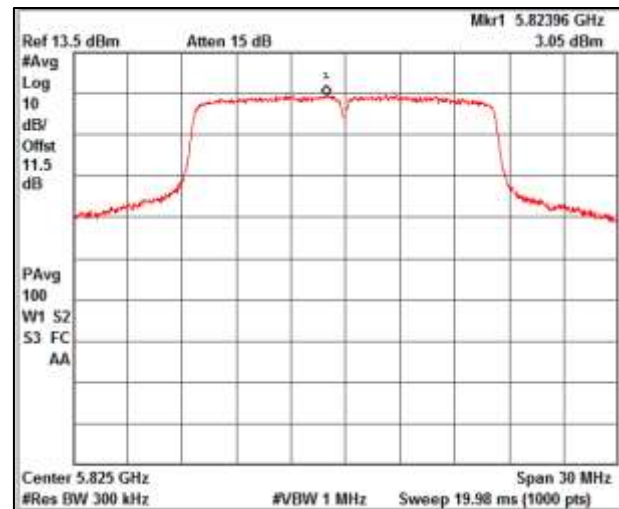
Channel Frequency-5180MHz



Channel Frequency-5240MHz

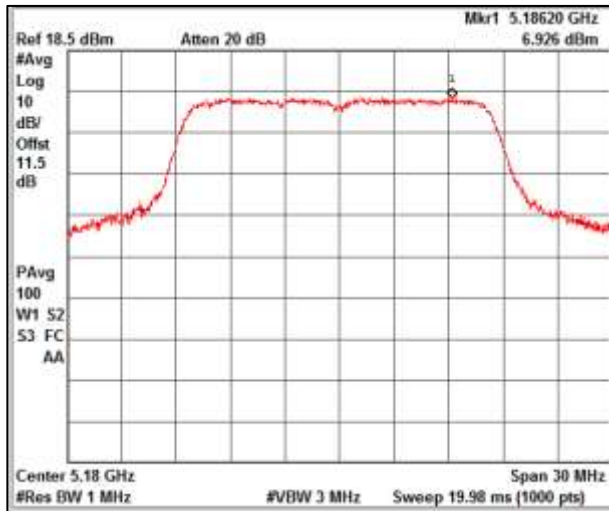


Channel Frequency-5745MHz

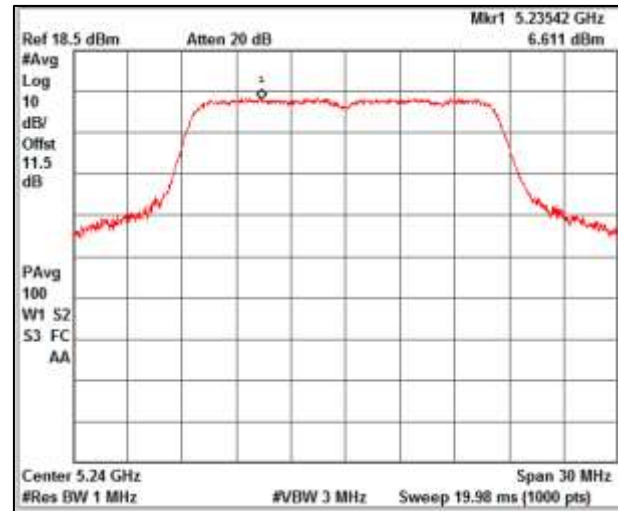


Channel Frequency-5825MHz

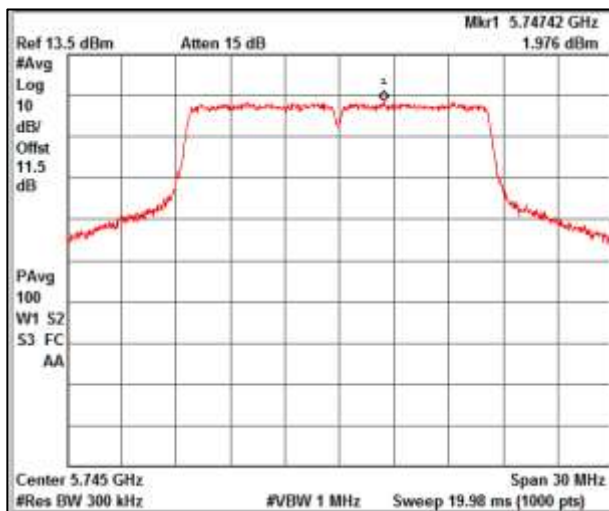
Data rate: 54Mbps



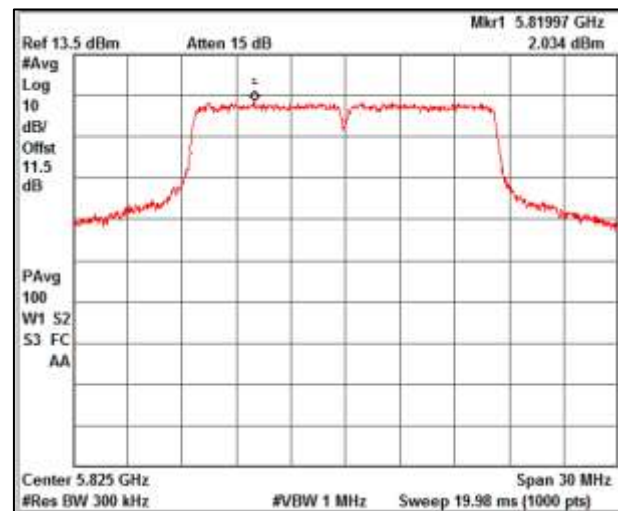
Channel Frequency-5180MHz



Channel Frequency-5240MHz



Channel Frequency-5745MHz



Channel Frequency-5825MHz

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Modulation: 802.11n – UNII 1

Data rate	Measured Frequency (MHz)	Measured Average PSD 1 (dBm/1MHz)	Measured Average PSD 2 (dBm/1MHz)	Total Chain1 + Chain2 PSD (dBm/1MHz)	Duty Cycle X %	Duty cycle correction factor (dB)	Final PSD (dBm/1MHz)	FCC PSD Limit (dBm/1MHz)
n_mode-HT20-MCS0	5180	7.22	7.52	10.38	99.71	0.01	10.40	11.00
	5240	7.27	7.64	10.47	99.71	0.01	10.48	11.00
n_mode-HT20-MCS7	5180	5.23	5.52	8.39	99.71	0.01	8.40	11.00
	5240	5.46	5.82	8.65	99.71	0.01	8.67	11.00

Modulation: 802.11n – UNII 3

Data rate	Measured Frequency (MHz)	Measured Average PSD 1 (dBm/0.3MHz)	Measured Average PSD 2 (dBm/0.3MHz)	Total Chain1 + Chain2 PSD (dBm/0.3MHz)	Duty Cycle X %	Duty cycle correction factor (dB)	Bandwidth Correction factor (dB)	Final PSD (dBm/0.5MHz)	FCC PSD Limit (dBm/0.5MHz)
n_mode-HT20-MCS0	5745	1.18	2.85	-3.70	99.71	0.01	2.22	7.34	30.00
	5825	0.87	3.03	-4.11	99.71	0.01	2.22	7.32	30.00
n_mode-HT20-MCS7	5745	-0.64	0.91	-5.53	99.71	0.01	2.22	5.45	30.00
	5825	-0.96	0.44	-6.24	99.71	0.01	2.22	5.04	30.00

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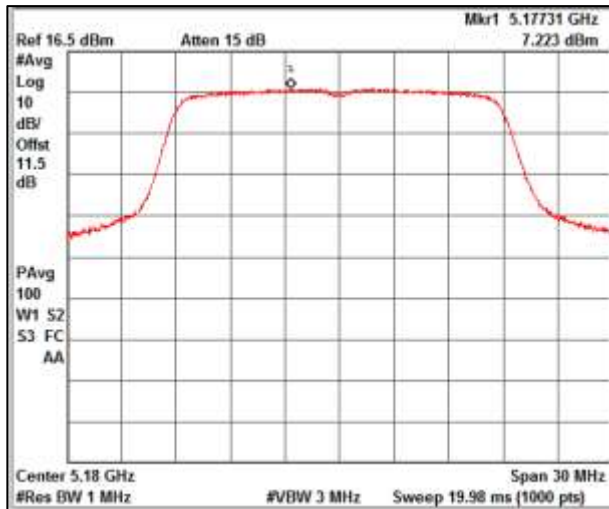
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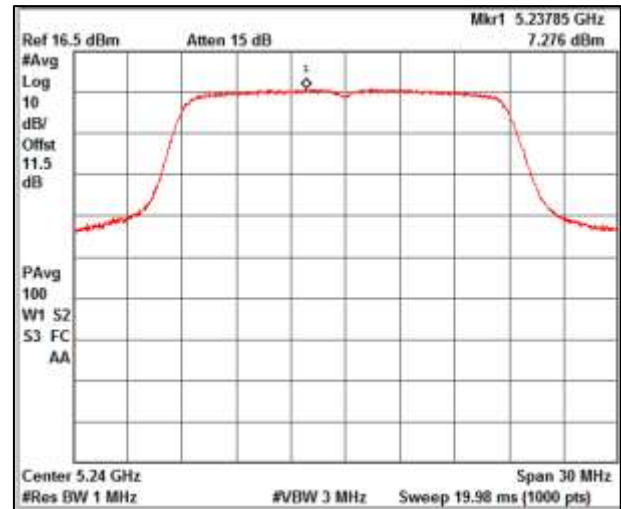
Chain-1

Modulation: 802. 11n HT20

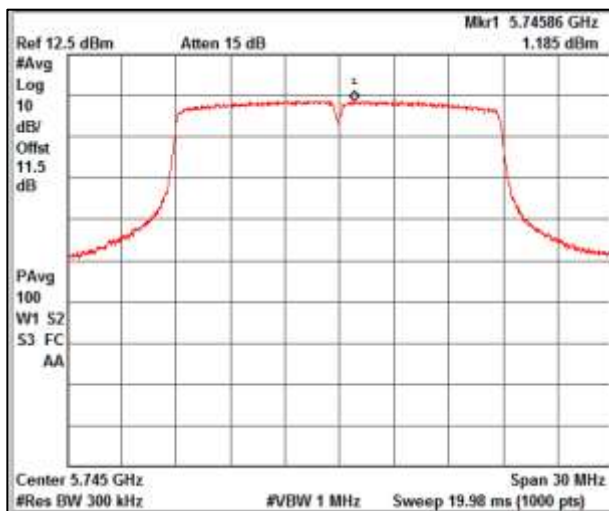
Data rate: MCS 0



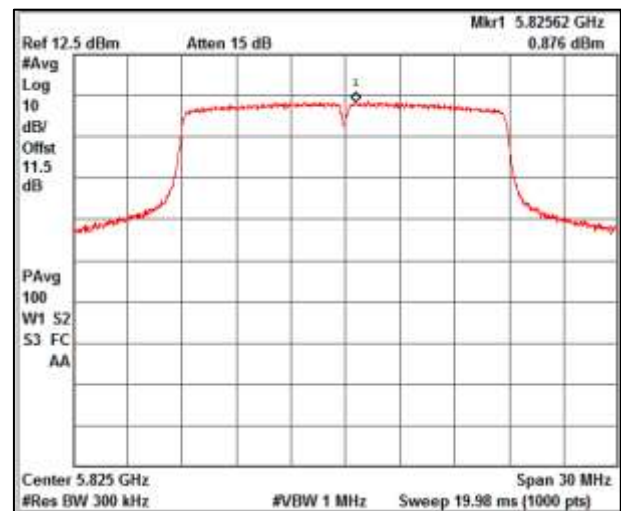
Channel Frequency-5180MHz



Channel Frequency-5240MHz

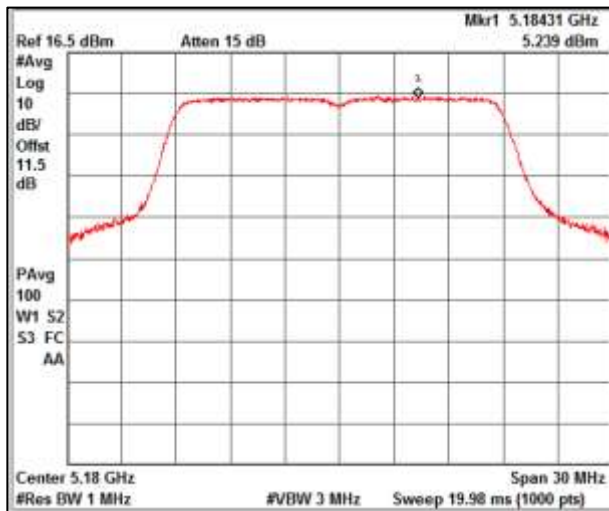


Channel Frequency-5745MHz

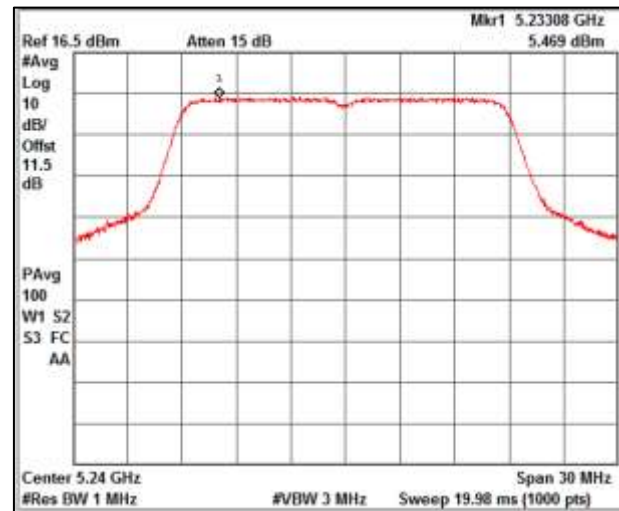


Channel Frequency-5825MHz

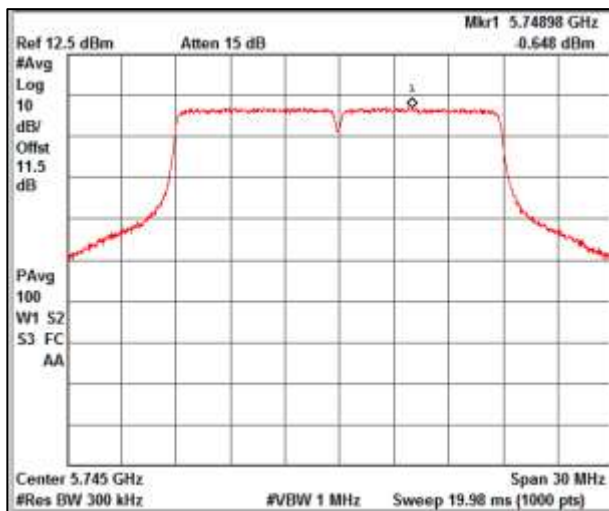
Data rate: MCS 7



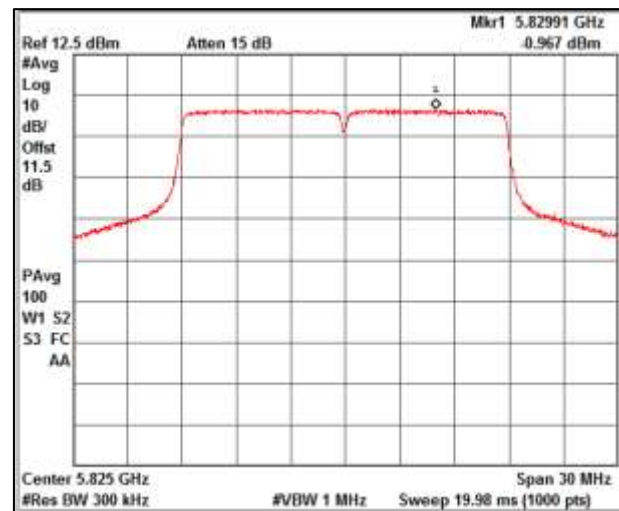
Channel Frequency-5180MHz



Channel Frequency-5240MHz



Channel Frequency-5745MHz



Channel Frequency-5825MHz

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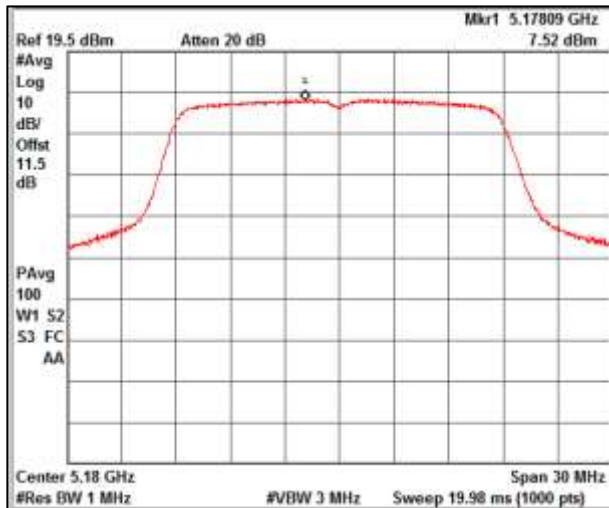
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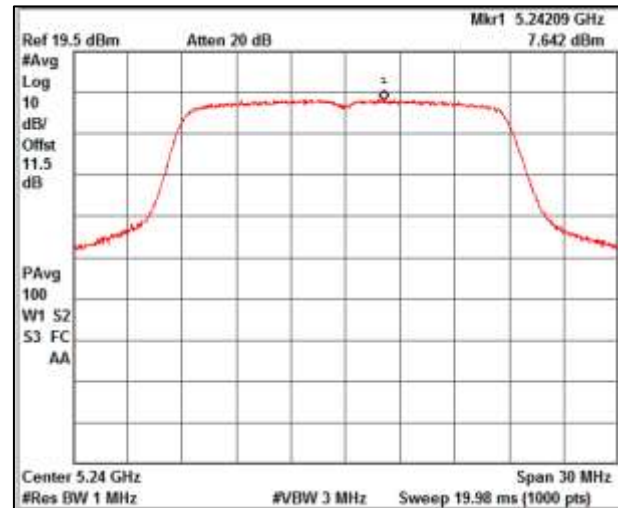
Chain-2

Modulation: 802. 11n HT20

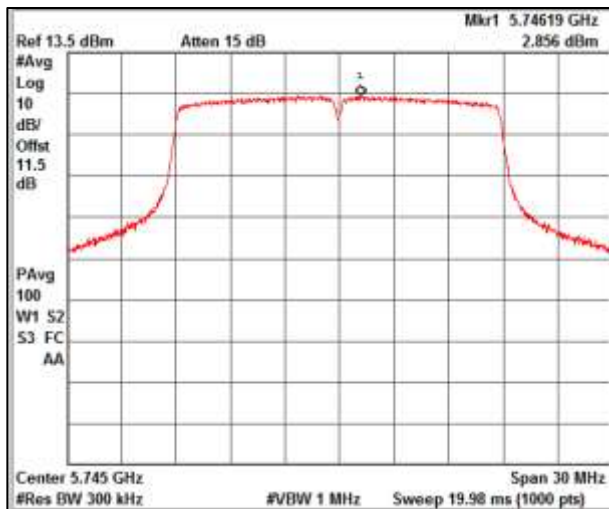
Data rate: MCS 0



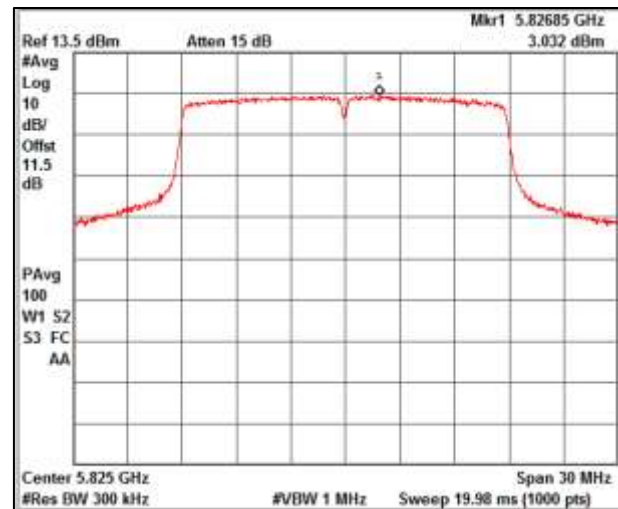
Channel Frequency-5180MHz



Channel Frequency-5240MHz

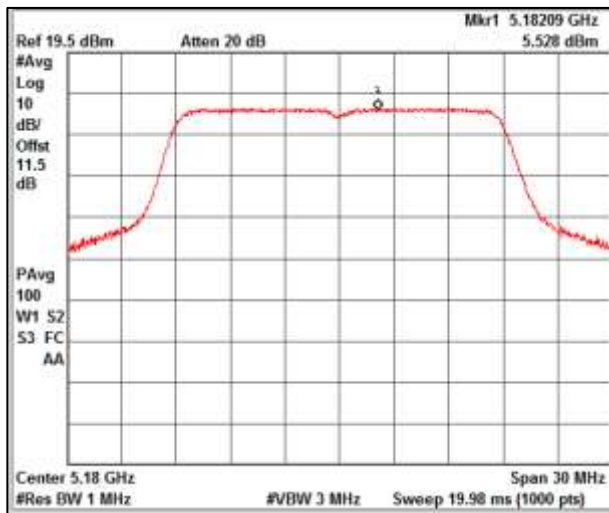


Channel Frequency-5745MHz

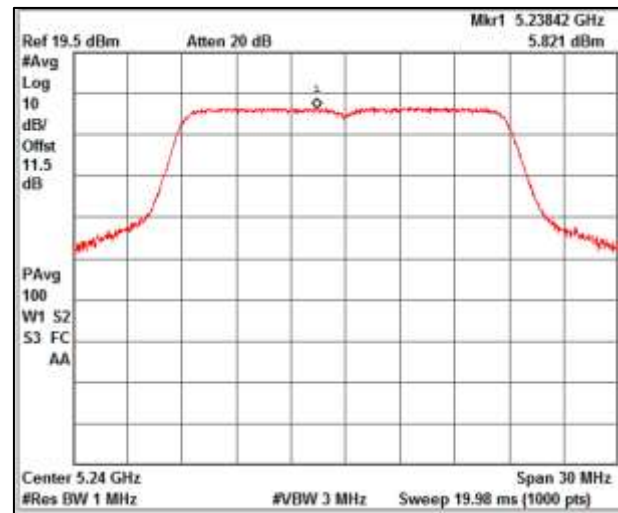


Channel Frequency-5825MHz

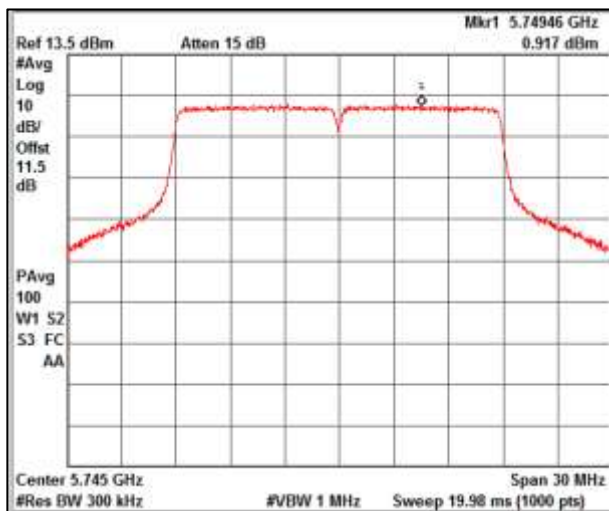
Data rate: MCS 7



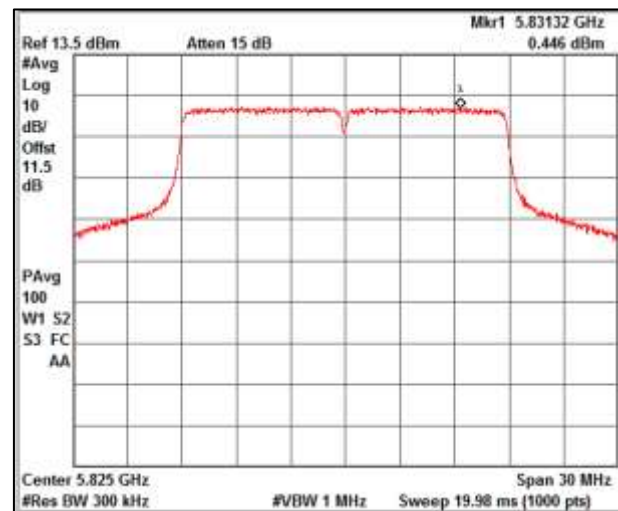
Channel Frequency-5180MHz



Channel Frequency-5240MHz



Channel Frequency-5745MHz



Channel Frequency-5825MHz

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Modulation: 802.11ac – UNII 1

Data rate	Measured Frequency (MHz)	Measured Average PSD 1 (dBm/1MHz)	Measured Average PSD 2 (dBm/1MHz)	Total Chain1 + Chain2 PSD	Duty Cycle X %	Duty cycle correction factor (dB)	Final PSD (dBm/1MHz)	FCC PSD Limit (dBm/1MHz)
ac_mode-VHT20-MCS0	5180	7.45	7.95	10.72	99.71	0.01	10.73	11.00
	5240	7.48	7.65	10.58	99.71	0.01	10.59	11.00
ac_mode-VHT20-MCS9	5180	5.37	5.62	8.51	99.71	0.01	8.52	11.00
	5240	4.70	5.55	8.16	99.71	0.01	8.17	11.00

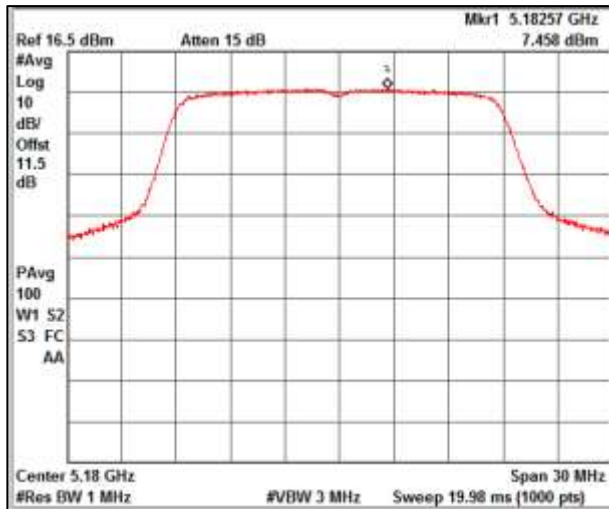
Modulation: 802.11ac – UNII 3

Data rate	Measured Frequency (MHz)	Measured Average PSD 1 (dBm/0.3MHz)	Measured Average PSD 2 (dBm/0.3MHz)	Total Chain1 + Chain2 PSD (dBm/0.3MHz)	Duty Cycle X %	Duty cycle correction factor (dB)	Bandwidth Correction factor (dB)	PSD (dBm/0.5MHz)	FCC PSD Limit (dBm/0.5MHz)
ac_mode-VHT20-MCS0	5745	0.84	2.54	4.78	99.71	0.01	2.22	7.01	30.00
	5825	0.79	1.77	4.32	99.71	0.01	2.22	6.55	30.00
ac_mode-VHT20-MCS9	5745	-1.20	0.49	2.74	99.71	0.01	2.22	4.97	30.00
	5825	-1.16	0.49	2.75	99.71	0.01	2.22	4.98	30.00

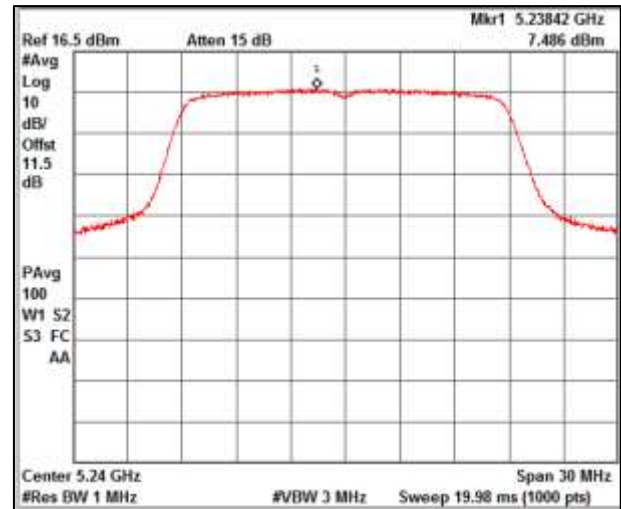
Chain-1

Modulation: 802. 11ac VHT20

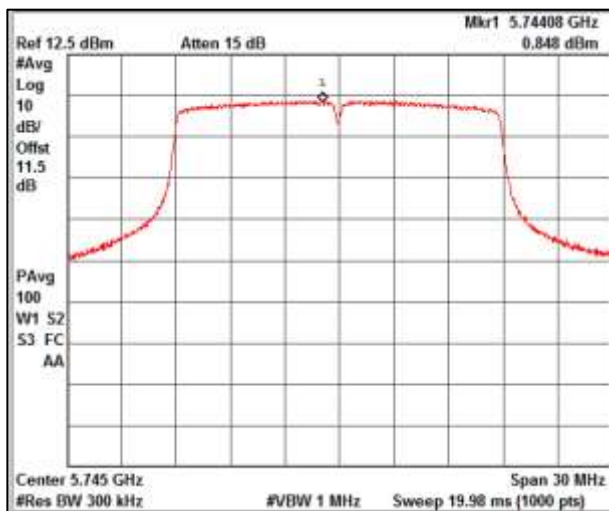
Data rate: MCS 0



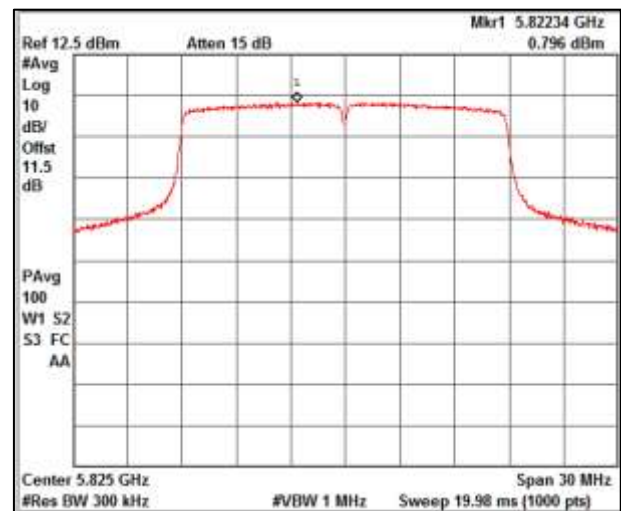
Channel Frequency-5180MHz



Channel Frequency-5240MHz

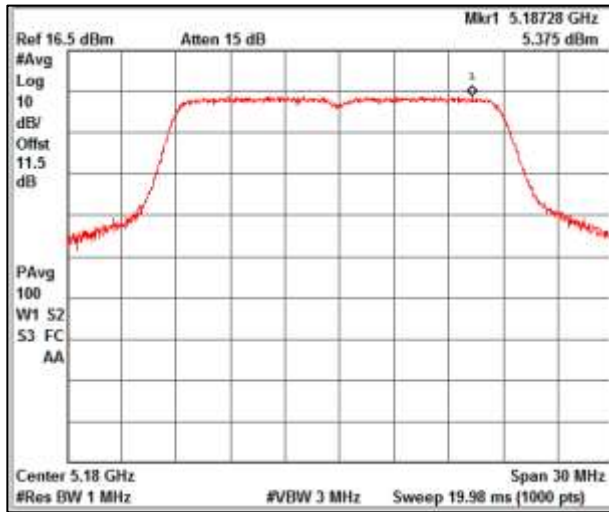


Channel Frequency-5745MHz

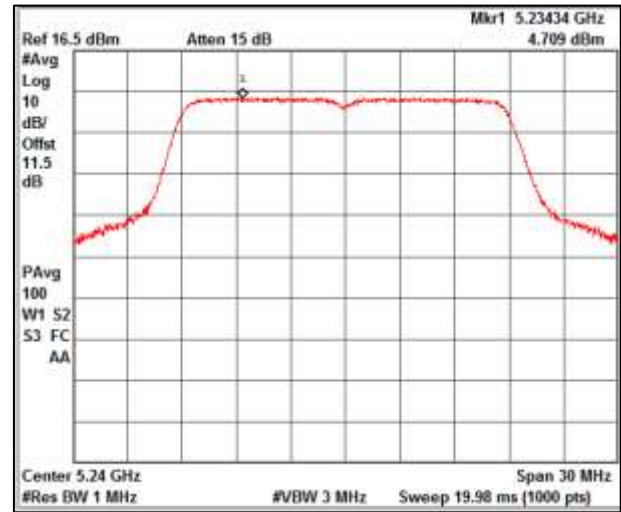


Channel Frequency-5825MHz

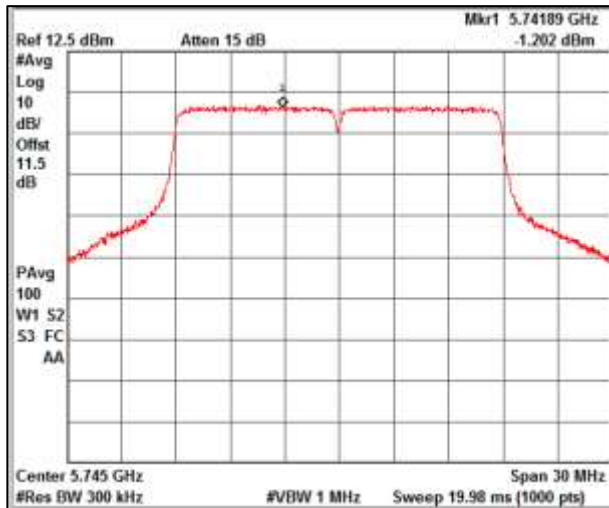
Data rate: MCS 9



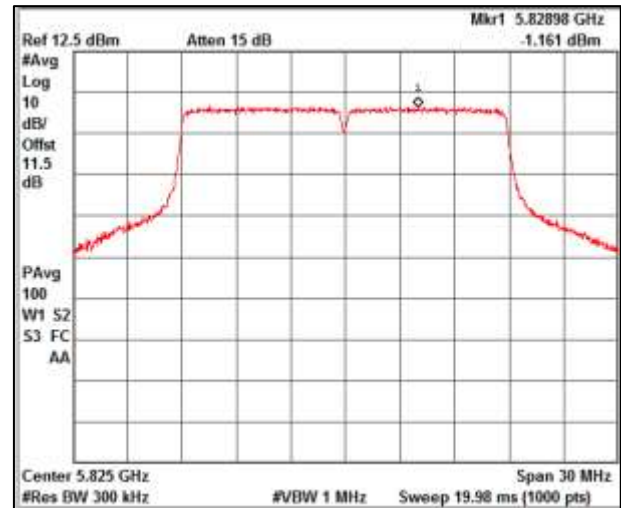
Channel Frequency-5180MHz



Channel Frequency-5240MHz



Channel Frequency-5745MHz



Channel Frequency-5825MHz

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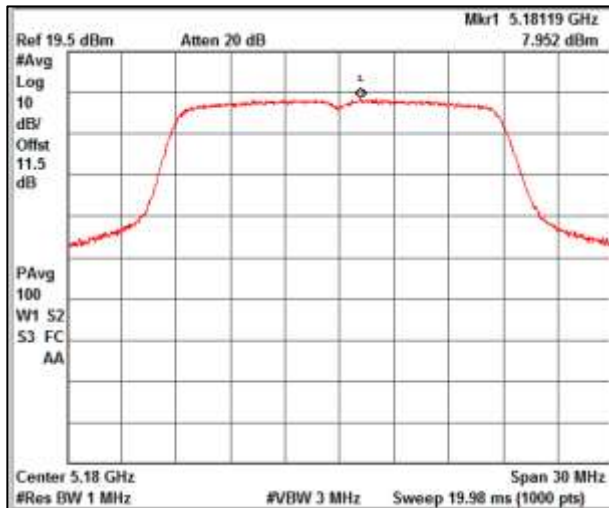
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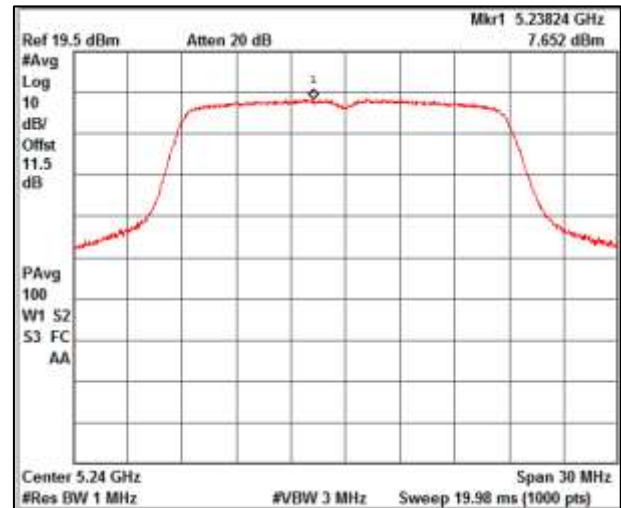
Chain-2

Modulation: 802. 11ac VHT20

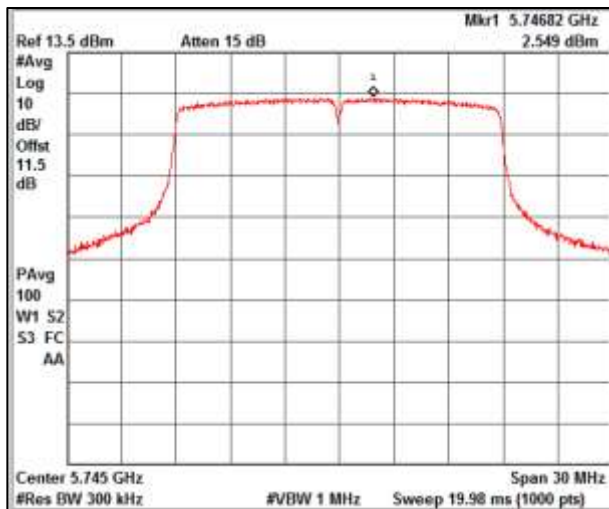
Data rate: MCS 0



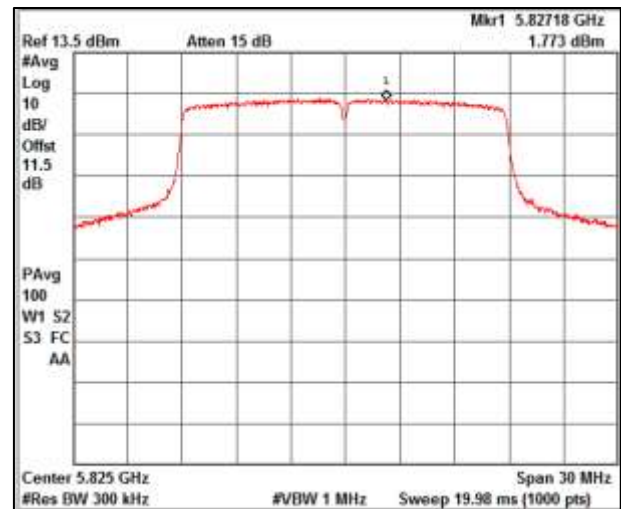
Channel Frequency-5180MHz



Channel Frequency-5240MHz

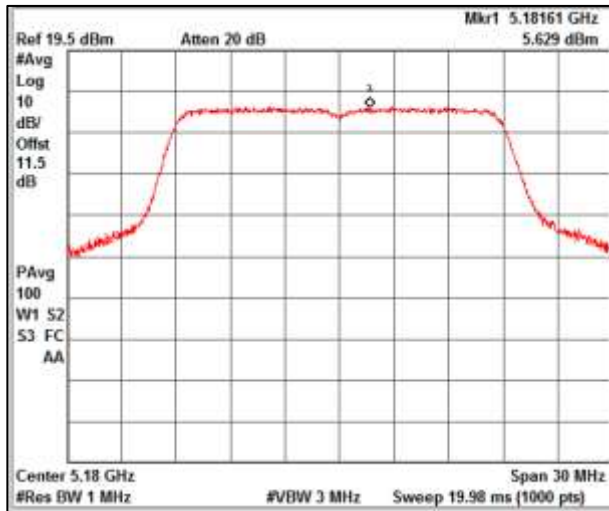


Channel Frequency-5745MHz

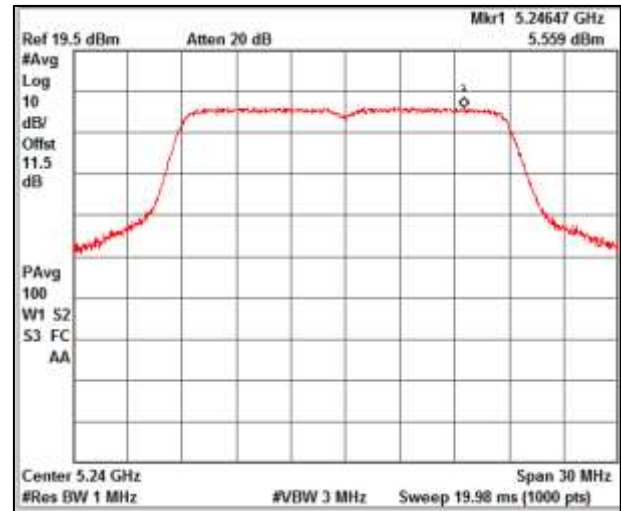


Channel Frequency-5825MHz

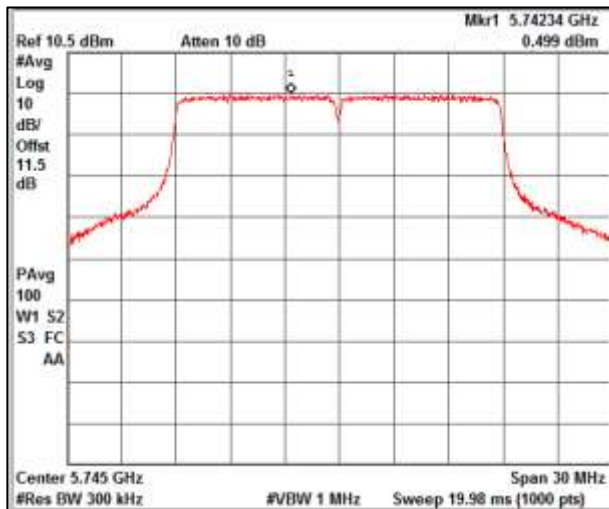
Data rate: MCS 9



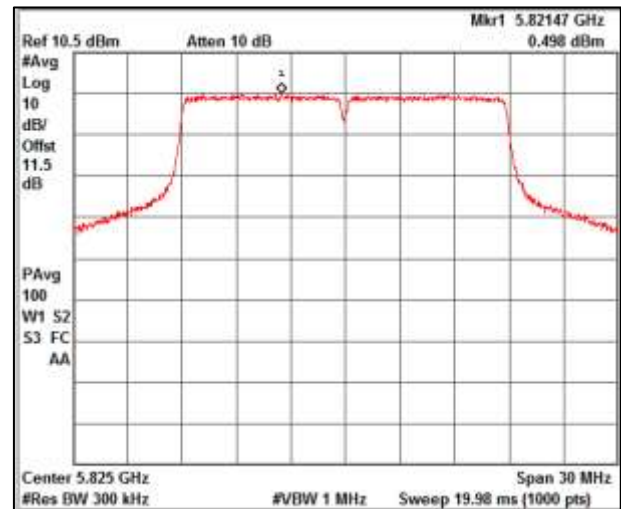
Channel Frequency-5180MHz



Channel Frequency-5240MHz



Channel Frequency-5745MHz



Channel Frequency-5825MHz

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Modulation: 802.11ax – UNII 1

Data rate	Measured Frequency (MHz)	Measured Average PSD 1 (dBm/1MHz)	Measured Average PSD 2 (dBm/1MHz)	Total Chain1 + Chain2 PSD	Duty Cycle X %	Duty cycle correction factor (dB)	Final PSD (dBm/1MHz)	FCC PSD Limit (dBm/1MHz)
ax_mode-HE20-MCS0	5180	7.16	7.73	10.46	99.71	0.01	10.48	11.00
	5240	7.31	7.33	10.33	99.71	0.01	10.34	11.00
ax_mode-HE20-MCS11	5180	3.08	3.18	6.14	99.71	0.01	6.15	11.00
	5240	2.76	3.50	6.16	99.71	0.01	6.17	11.00

Modulation: 802.11ax – UNII 3

Data rate	Measured Frequency (MHz)	Measured Average PSD 1 (dBm/0.3MHz)	Measured Average PSD 2 (dBm/0.3MHz)	Total Chain1 + Chain2 PSD (dBm/0.3MHz)	Duty Cycle X %	Duty cycle correction factor (dB)	Bandwidth Correction factor (dB)	Final PSD (dBm/0.5MHz)	FCC PSD Limit (dBm/0.5MHz)
ax_mode-HE20-MCS0	5745	1.44	2.10	4.79	87.66	0.57	2.22	7.02	30.00
	5825	0.82	1.83	4.36	87.63	0.57	2.22	6.60	30.00
ax_mode-HE20-MCS11	5745	-2.88	-2.04	0.57	45.13	3.46	2.22	2.80	30.00
	5825	-3.67	-1.93	0.30	45.15	3.45	2.22	2.53	30.00

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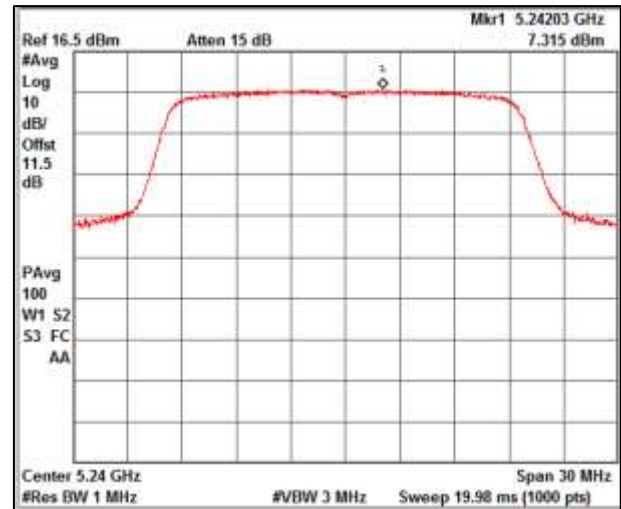
Chain-1

Modulation: 802. 11ax HE20

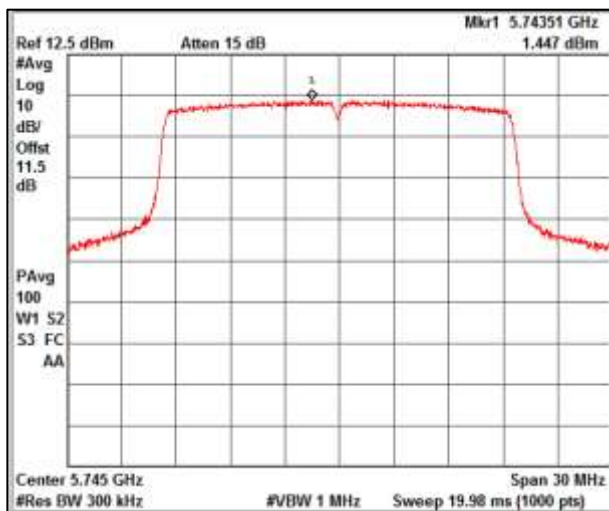
Data rate: MCS 0



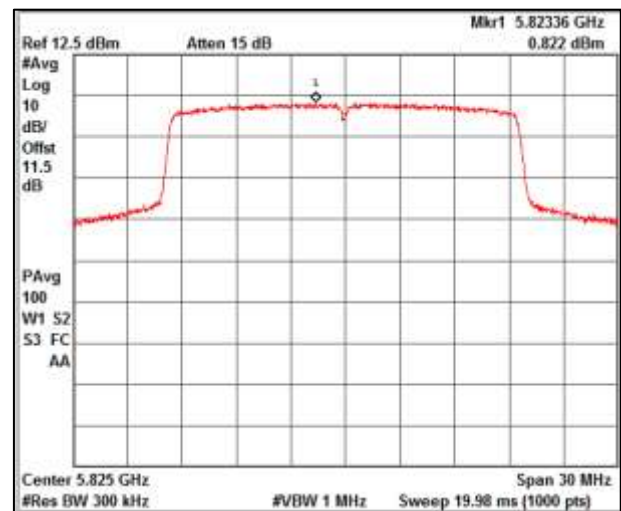
Channel Frequency-5180MHz



Channel Frequency-5240MHz

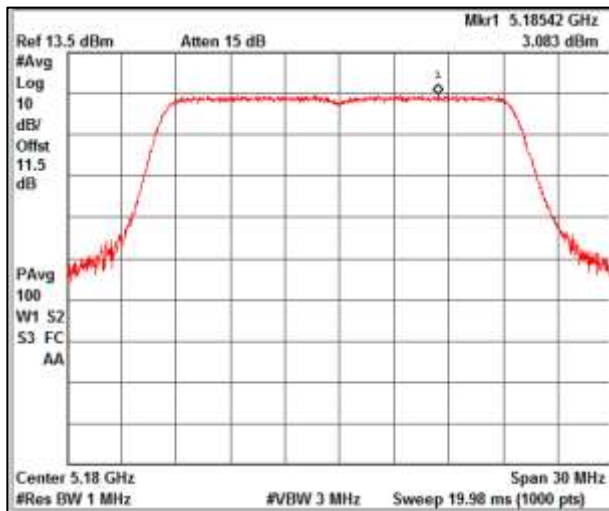


Channel Frequency-5745MHz

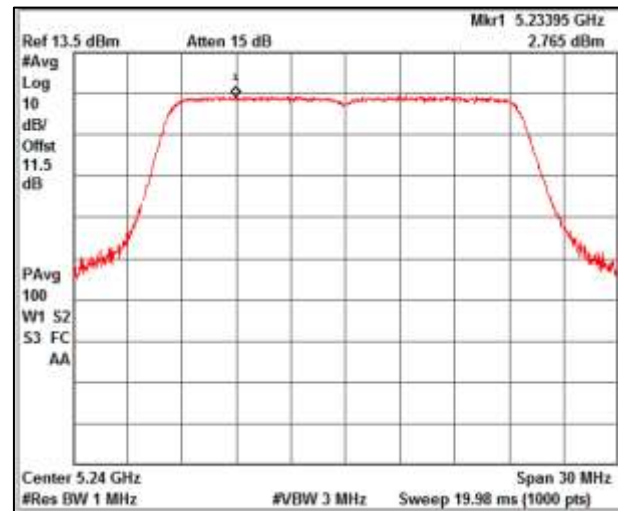


Channel Frequency-5825MHz

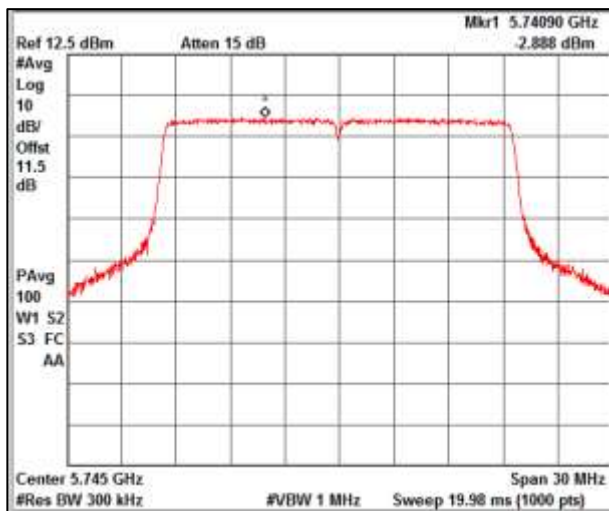
Data rate: MCS 11



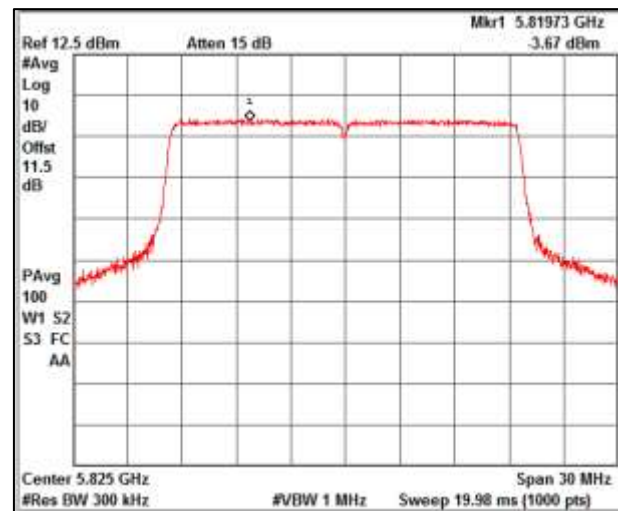
Channel Frequency-5180MHz



Channel Frequency-5240MHz



Channel Frequency-5745MHz



Channel Frequency-5825MHz

Prüfbericht - Nr.:
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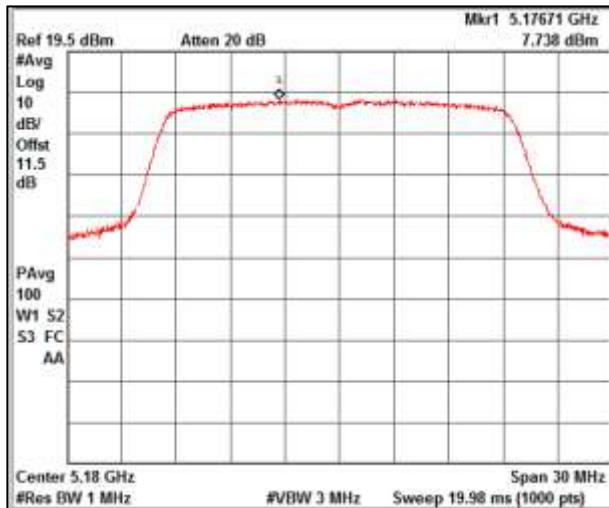
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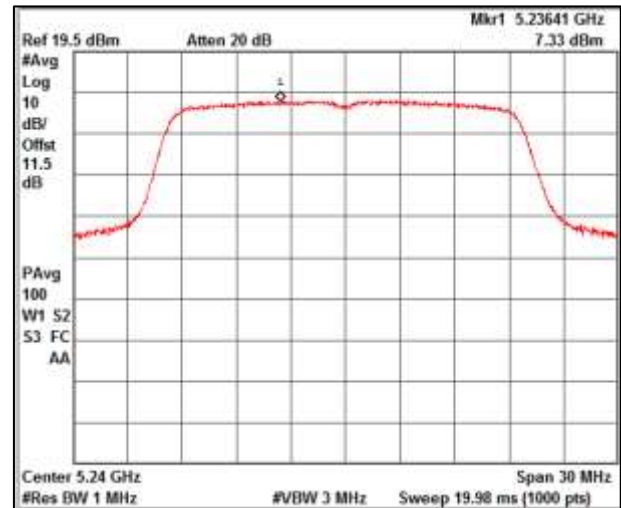
Chain-2

Modulation: 802.11ax HE20

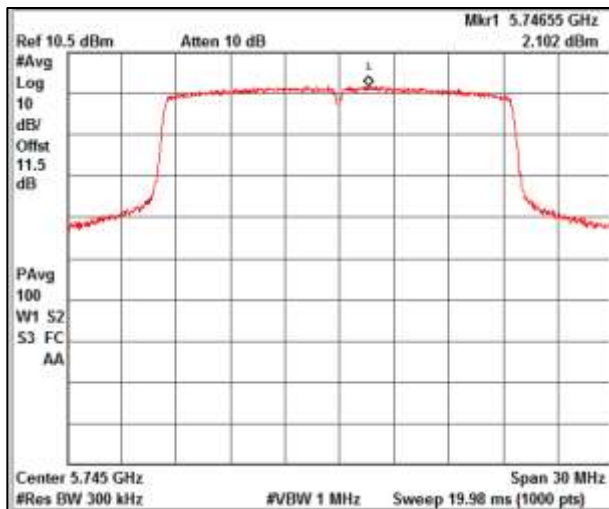
Data rate: MCS 0



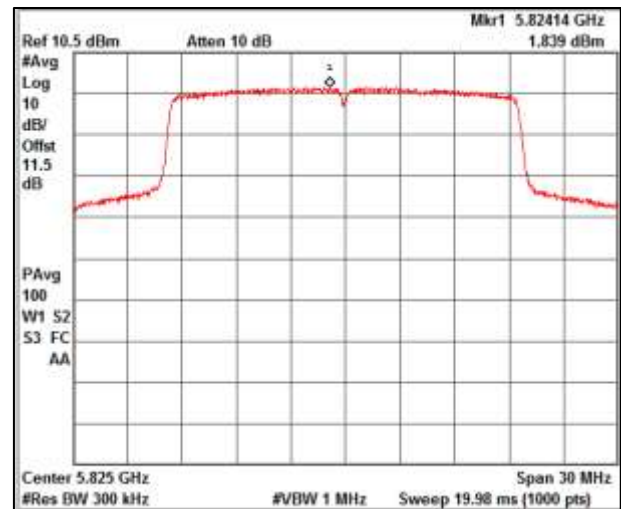
Channel Frequency-5180MHz



Channel Frequency-5240MHz

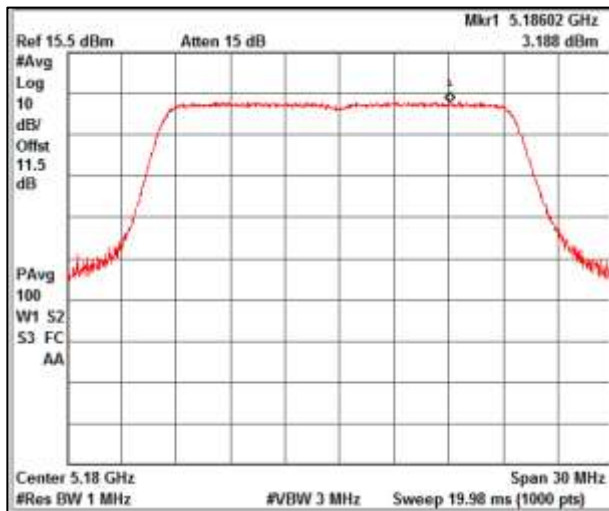


Channel Frequency-5745MHz

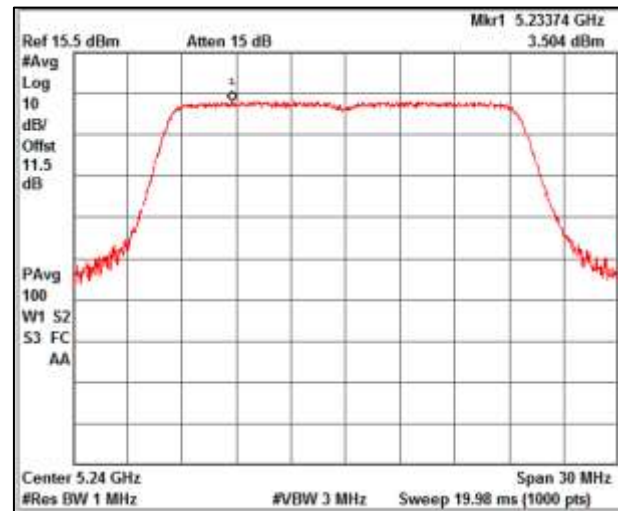


Channel Frequency-5825MHz

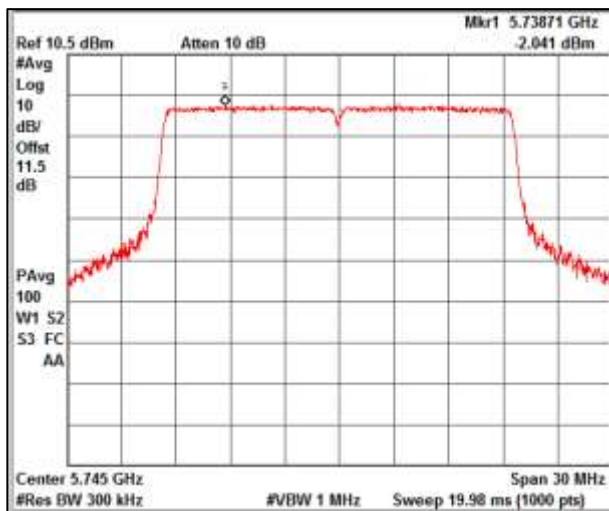
Data rate: MCS 11



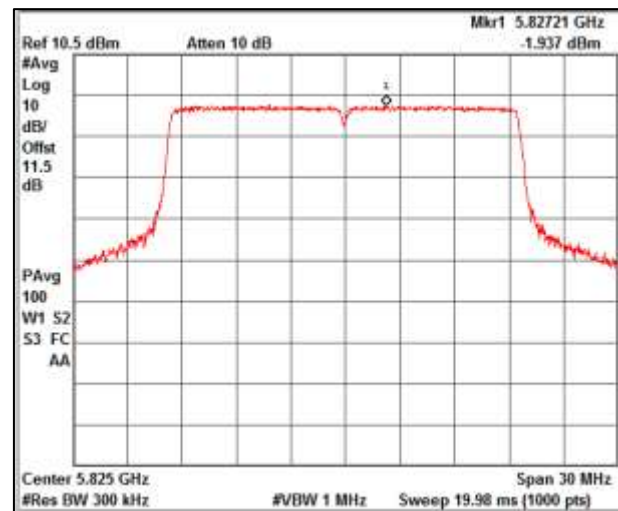
Channel Frequency-5180MHz



Channel Frequency-5240MHz



Channel Frequency-5745MHz



Channel Frequency-5825MHz

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Modulation: 802.11n – UNII 1

Data rate	Measured Frequency (MHz)	Measured Average PSD 1 (dBm/1MHz)	Measured Average PSD 2 (dBm/1MHz)	Total Chain1 + Chain2 PSD	Duty Cycle X %	Duty cycle correction factor (dB)	Final PSD (dBm/1MHz)	FCC PSD Limit (dBm/1MHz)
n_mode-HT40-MCS0	5190	3.91	5.36	7.71	99.72	0.01	7.72	11.00
	5230	4.03	5.12	7.62	99.72	0.01	7.63	11.00
n_mode-HT40-MCS7	5190	2.04	3.36	5.76	99.72	0.01	5.77	11.00
	5230	2.08	3.11	5.64	99.72	0.01	5.65	11.00

Modulation: 802.11n – UNII 3

Data rate	Measured Frequency (MHz)	Measured Average PSD 1 (dBm/0.3MHz)	Measured Average PSD 2 (dBm/0.3MHz)	Total Chain1 + Chain2 PSD (dBm/0.3MHz)	Duty Cycle X %	Duty cycle correction factor (dB)	Bandwidth Correction factor (dB)	PSD (e.i.r.p) (dBm/0.5MHz)	FCC PSD Limit (dBm/0.5MHz)
n_mode-HT40-MCS0	5755	-1.65	-0.75	1.83	99.72	0.01	2.22	4.06	30.00
	5795	-1.12	0.08	2.53	99.72	0.01	2.22	4.76	30.00
n_mode-HT40-MCS7	5755	-3.48	-2.25	0.19	99.73	0.01	2.22	2.42	30.00
	5795	-3.25	-1.74	0.58	99.73	0.01	2.22	2.81	30.00

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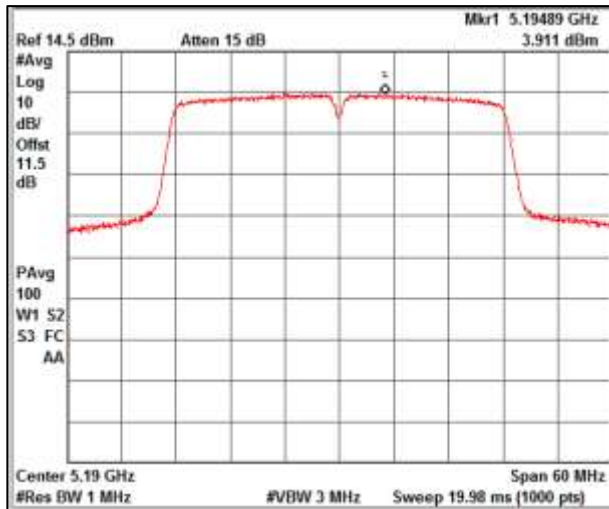
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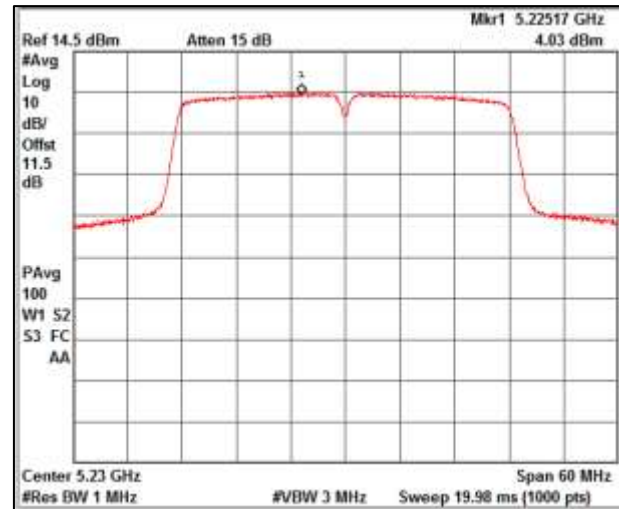
Chain-1

Modulation: 802. 11n HT40

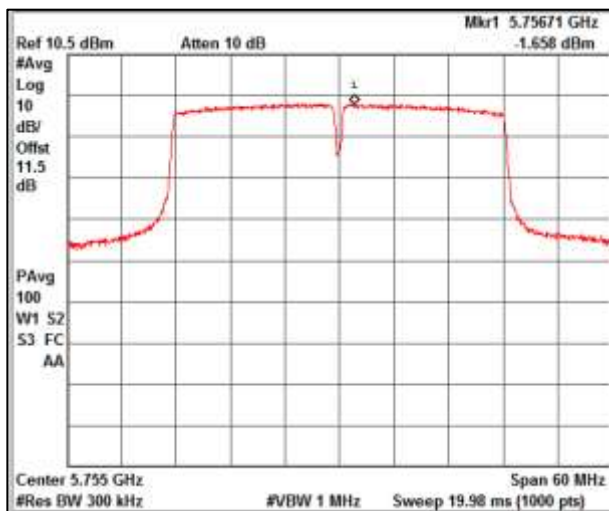
Data rate: MCS 0



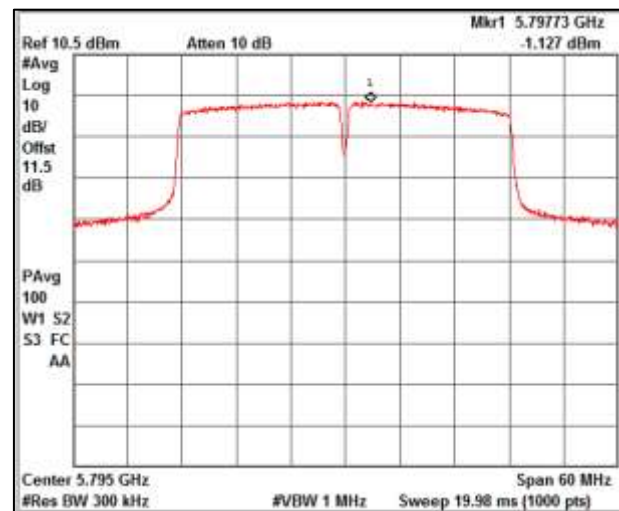
Channel Frequency-5190MHz



Channel Frequency-5230MHz

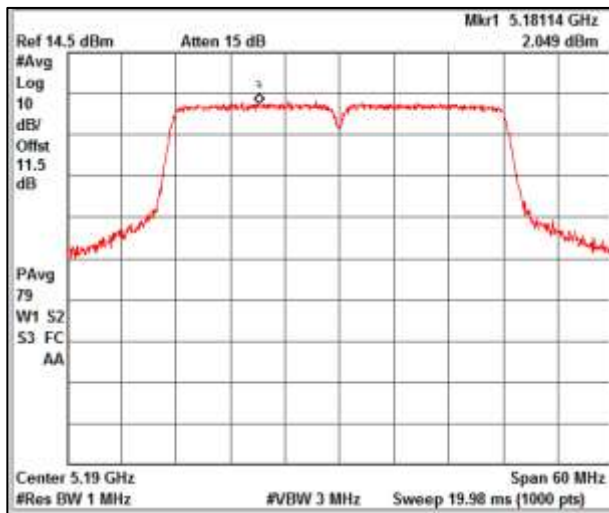


Channel Frequency-5755MHz

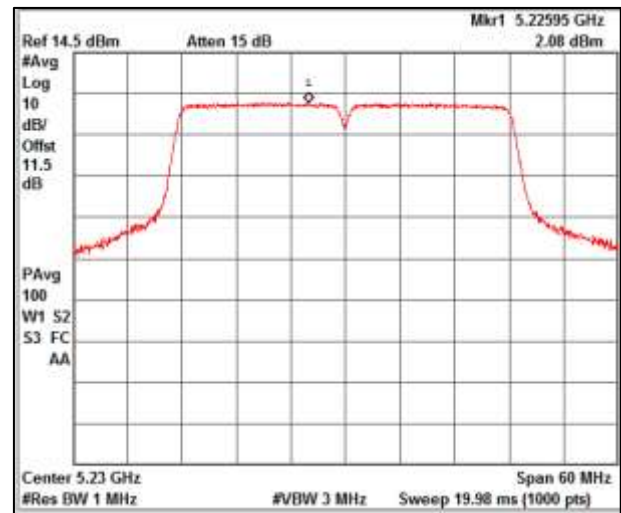


Channel Frequency-5795MHz

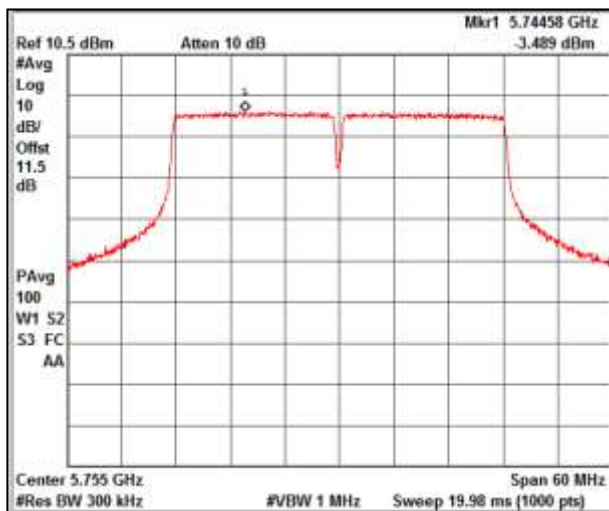
Data rate: MCS 7



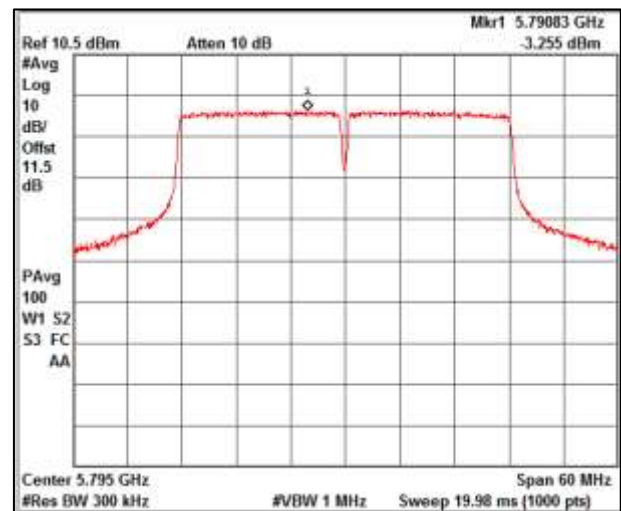
Channel Frequency-5190MHz



Channel Frequency-5230MHz



Channel Frequency-5755MHz



Channel Frequency-5795MHz

Prüfbericht - Nr.:
Test Report No.:

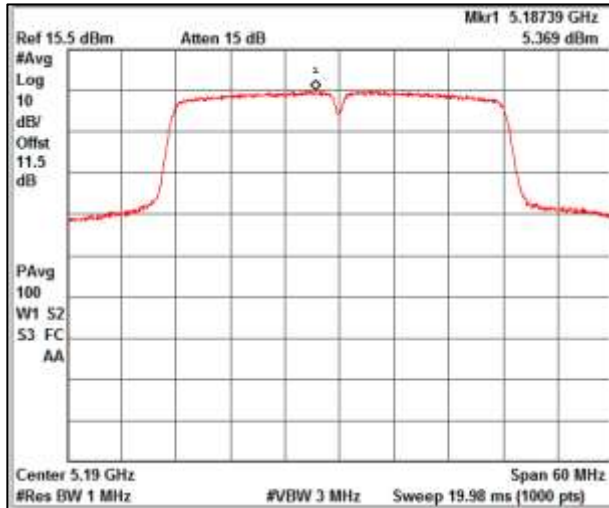
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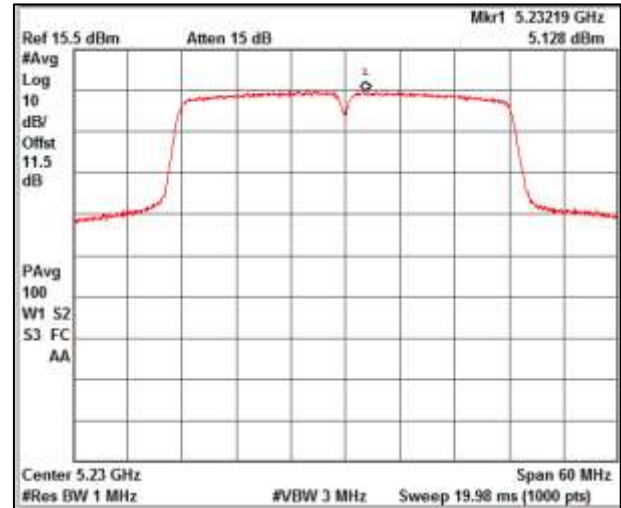
Chain-2

Modulation: 802. 11n HT40

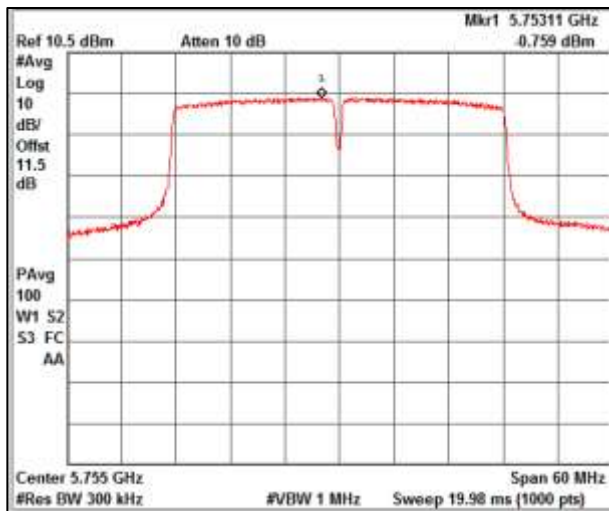
Data rate: MCS 0



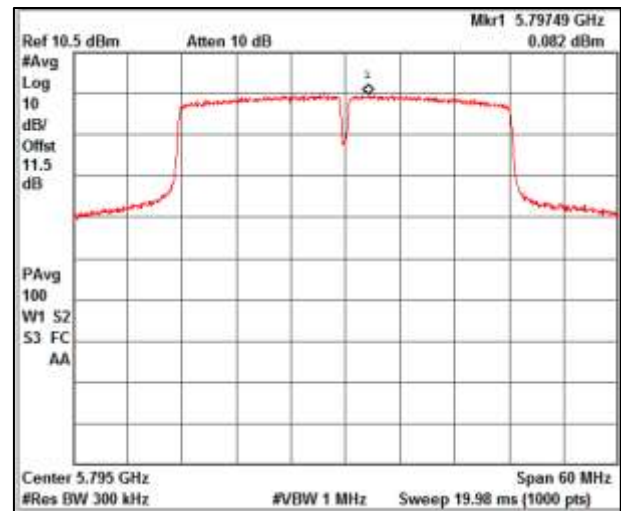
Channel Frequency-5190MHz



Channel Frequency-5230MHz



Channel Frequency-5755MHz



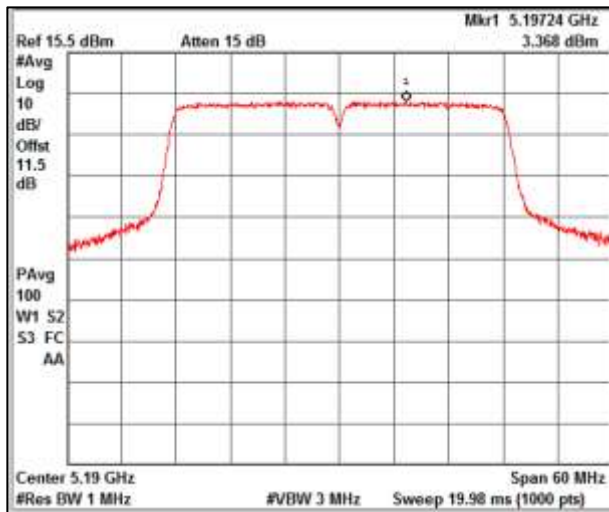
Channel Frequency-5795MHz

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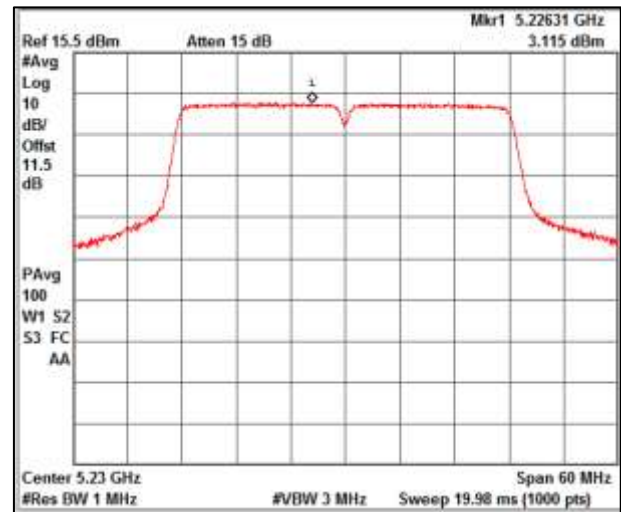
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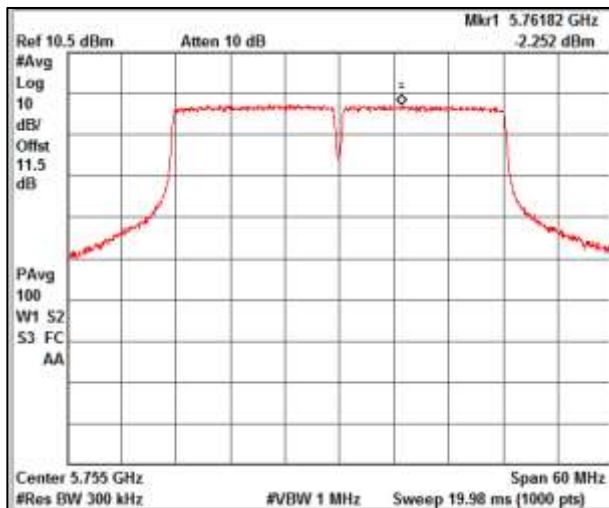
Data rate: MCS 7



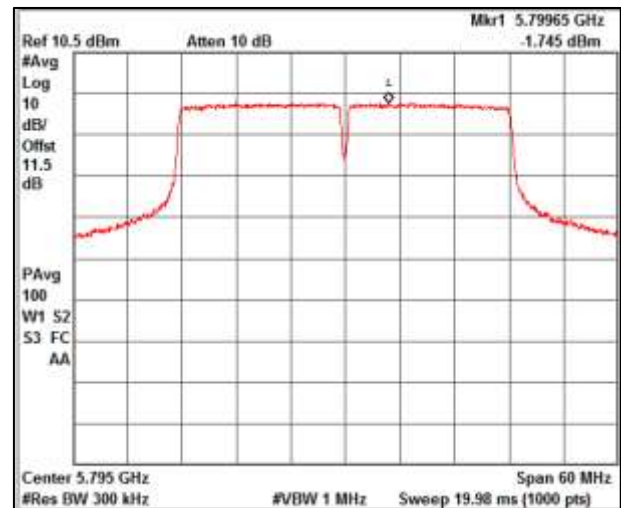
Channel Frequency-5190MHz



Channel Frequency-5230MHz



Channel Frequency-5755MHz



Channel Frequency-5795MHz

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Modulation: 802.11ac – UNII 1, UNII2a, UNII2c

Data rate	Measured Frequency (MHz)	Measured Average PSD 1 (dBm/1MHz)	Measured Average PSD 2 (dBm/1MHz)	Total Chain1 + Chain2 PSD	Duty Cycle X %	Duty cycle correction factor (dB)	Final PSD (dBm/1MHz)	FCC PSD Limit (dBm/1MHz)
ac_mode-VHT40-MCS0	5190	3.02	5.34	7.34	99.72	0.01	7.36	11.00
	5230	4.10	5.25	7.72	99.72	0.01	7.74	11.00
ac_mode-VHT40-MCS9	5190	1.01	2.31	4.72	99.72	99.72	4.73	11.00
	5230	1.17	2.30	4.78	99.72	99.72	4.79	11.00

Modulation: 802.11ac – UNII 3

Data rate	Measured Frequency (MHz)	Measured Average PSD 1 (dBm/0.3MHz)	Measured Average PSD 2 (dBm/0.3MHz)	Total Chain1 + Chain2 PSD (dBm/0.3MHz)	Duty Cycle X %	Duty cycle correction factor (dB)	Bandwidth Correction factor (dB)	PSD (dBm/0.5MHz)	FCC PSD Limit (dBm/0.5MHz)
ac_mode-VHT40-MCS0	5755	-1.65	-0.38	2.04	99.72	0.01	2.22	4.27	30.00
	5795	-1.56	0.26	2.45	99.73	0.01	2.22	4.69	30.00
ac_mode-VHT40-MCS9	5755	-3.88	-3.61	-0.73	99.72	0.01	2.22	1.50	30.00
	5795	-4.24	-3.15	-0.65	99.73	0.01	2.22	1.58	30.00

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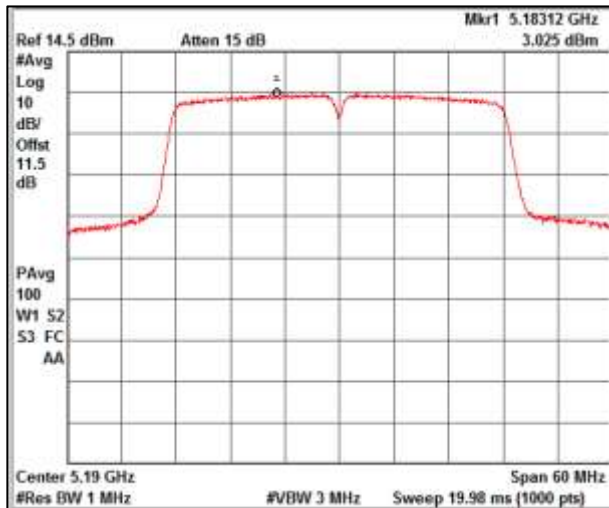
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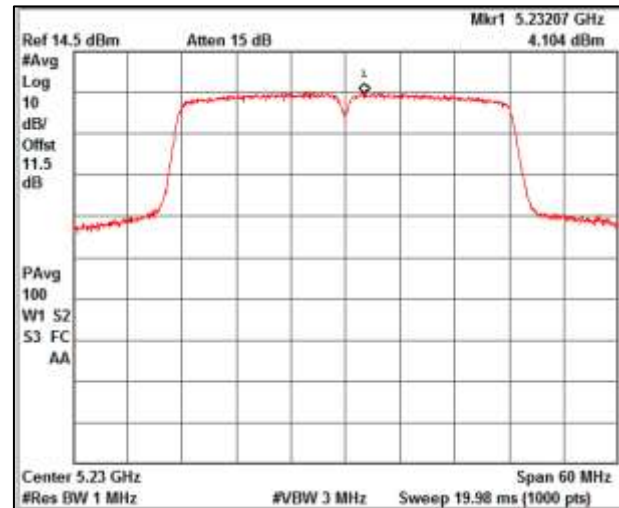
Chain-1

Modulation: 802. 11ac VHT40

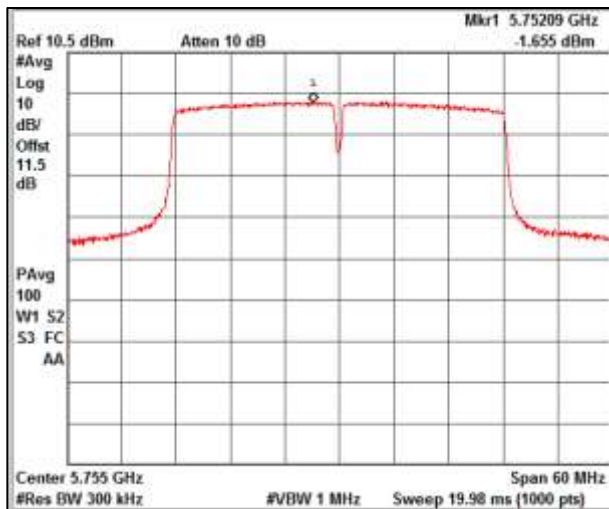
Data rate: MCS 0



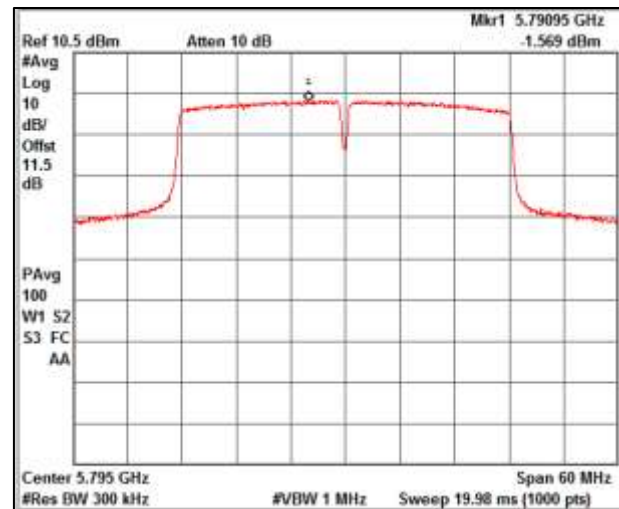
Channel Frequency-5190MHz



Channel Frequency-5230MHz

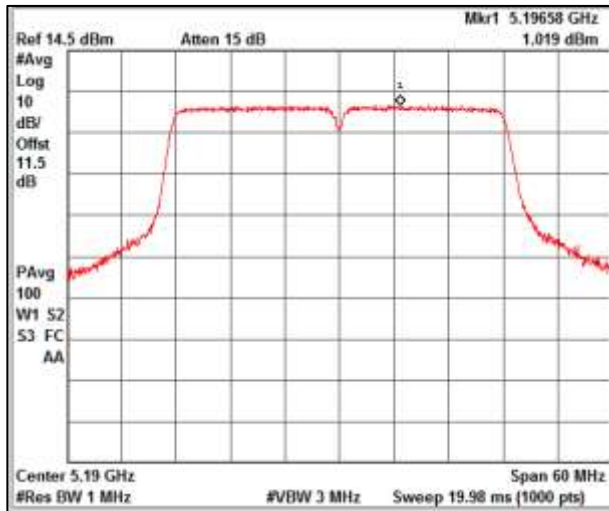


Channel Frequency-5755MHz

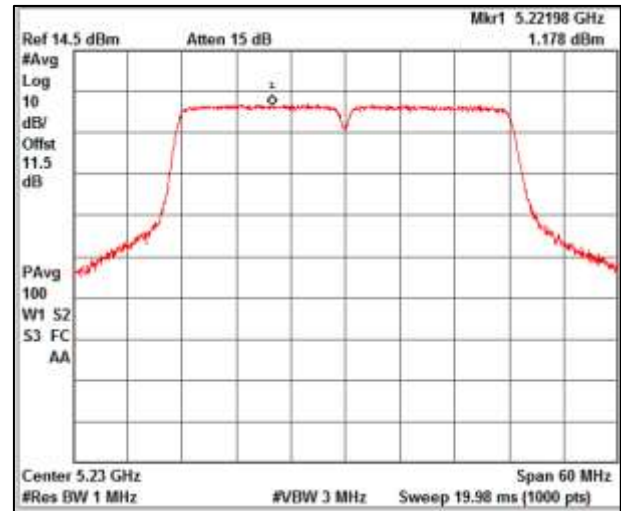


Channel Frequency-5795MHz

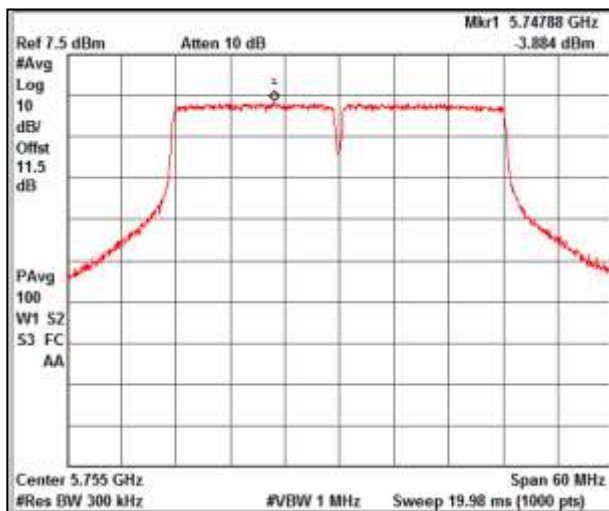
Data rate: MCS 9



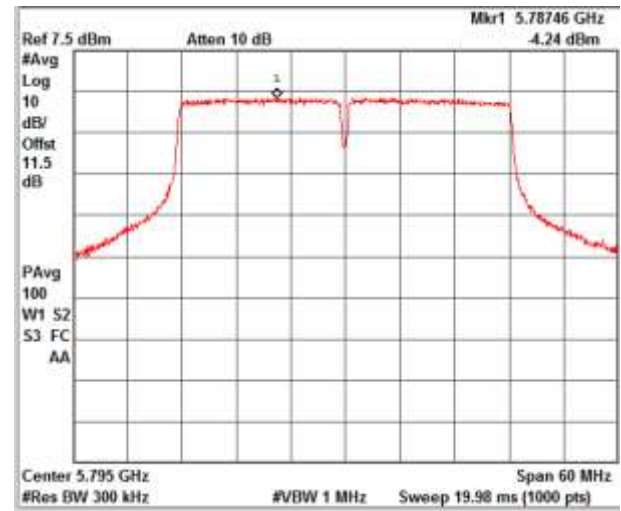
Channel Frequency-5190MHz



Channel Frequency-5230MHz



Channel Frequency-5755MHz



Channel Frequency-5795MHz

Prüfbericht - Nr.:
Test Report No.:

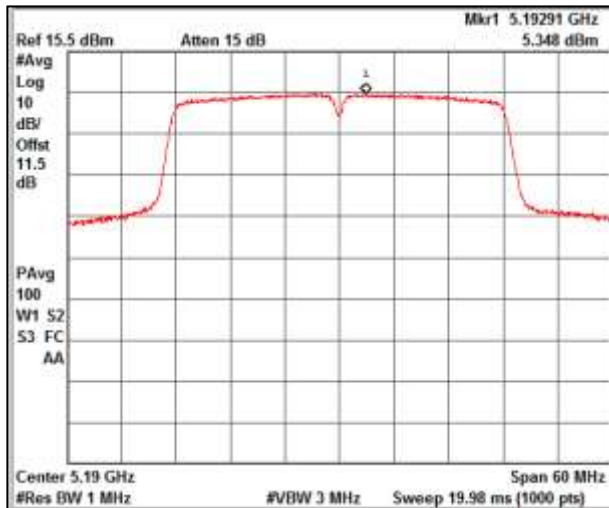
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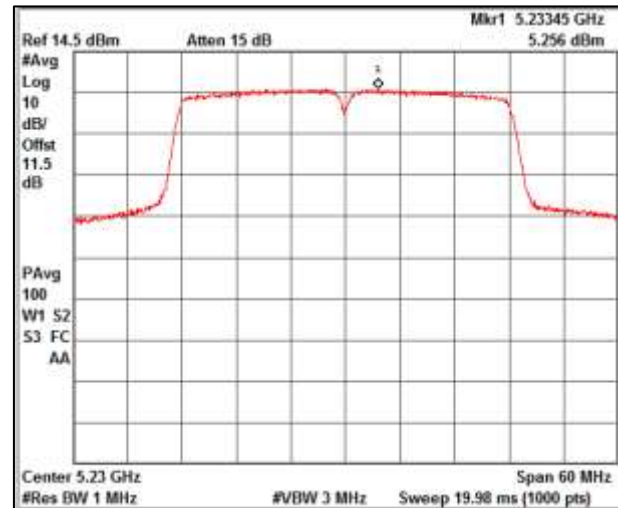
Chain-2

Modulation: 802. 11ac VHT40

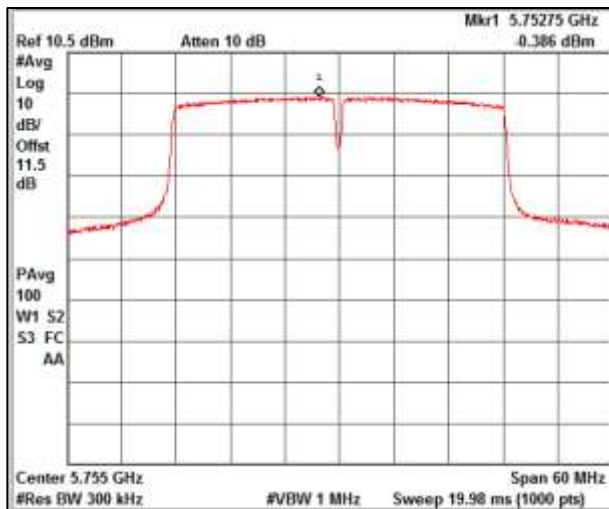
Data rate: MCS 0



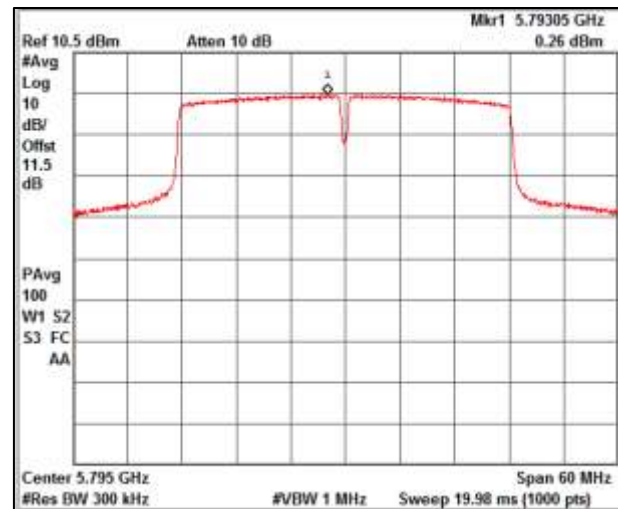
Channel Frequency-5190MHz



Channel Frequency-5230MHz

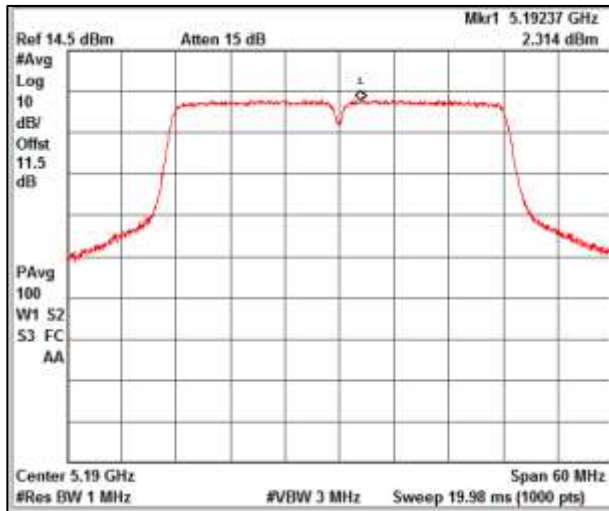


Channel Frequency-5755MHz

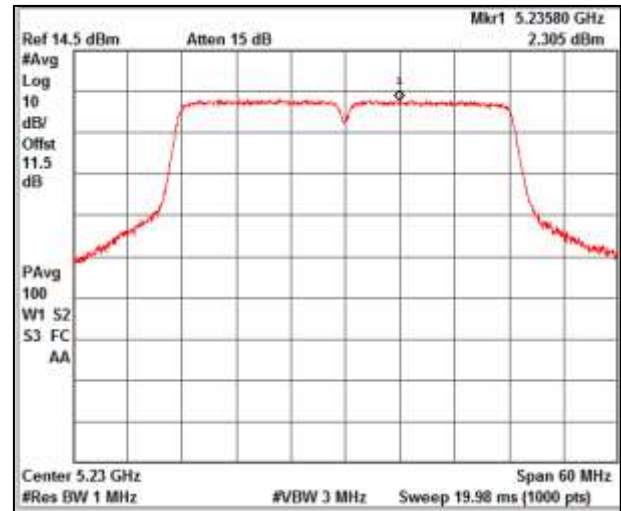


Channel Frequency-5795MHz

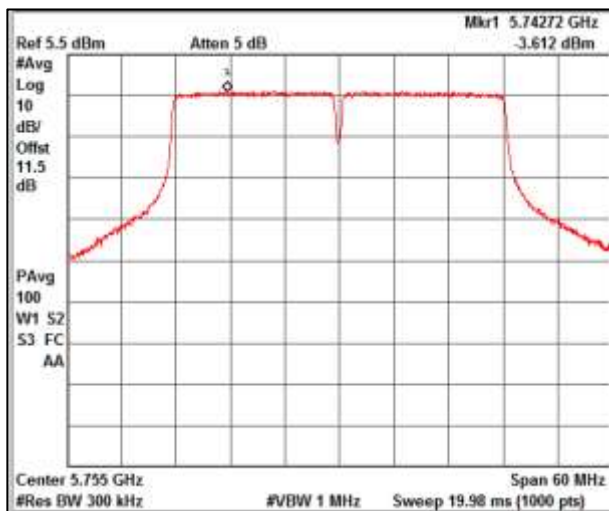
Data rate: MCS 9



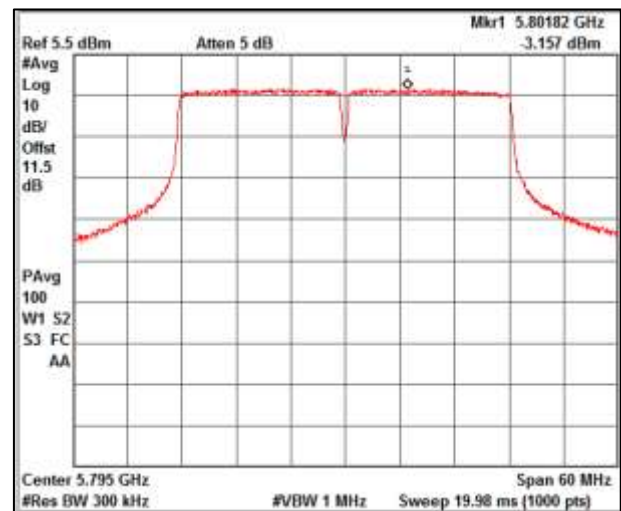
Channel Frequency-5190MHz



Channel Frequency-5230MHz



Channel Frequency-5755MHz



Channel Frequency-5795MHz

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Modulation: 802.11ax – UNII 1

Data rate	Measured Frequency (MHz)	Measured Average PSD 1 (dBm/1MHz)	Measured Average PSD 2 (dBm/1MHz)	Total Chain1 + Chain2 PSD	Duty Cycle X %	Duty cycle correction factor (dB)	PSD (e.i.r.p) (dBm/1MHz)	FCC PSD Limit (dBm/1MHz)
ax_mode-HE40-MCS0	5190	4.16	4.96	7.59	99.72	0.01	7.60	11.00
	5230	4.19	4.95	7.60	99.72	0.01	7.61	11.00
ax_mode-HE40-MCS11	5190	-0.79	0.53	2.93	99.73	0.01	2.94	11.00
	5230	-0.51	0.99	3.31	99.73	0.01	3.33	11.00

Modulation: 802.11ax – UNII 3

Data rate	Measured Frequency (MHz)	Measured Average PSD 1 (dBm/0.3MHz)	Measured Average PSD 2 (dBm/0.3MHz)	Total Chain1 + Chain2 PSD (dBm/0.3MHz)	Duty Cycle X %	Duty cycle correction factor (dB)	Bandwidth Correction factor (dB)	PSD (e.i.r.p) (dBm/0.5MHz)	FCC PSD Limit (dBm/0.5MHz)
ax_mode-HE40-MCS0	5755	-1.76	-0.56	1.89	99.73	0.01	2.22	4.12	30.00
	5795	-1.59	-0.35	2.08	99.73	0.01	2.22	4.31	30.00
ax_mode-HE40-MCS11	5755	-4.89	-4.96	-1.91	99.73	0.01	2.22	-1.90	30.00
	5795	-4.09	-4.54	-1.30	99.73	0.01	2.22	-1.29	30.00

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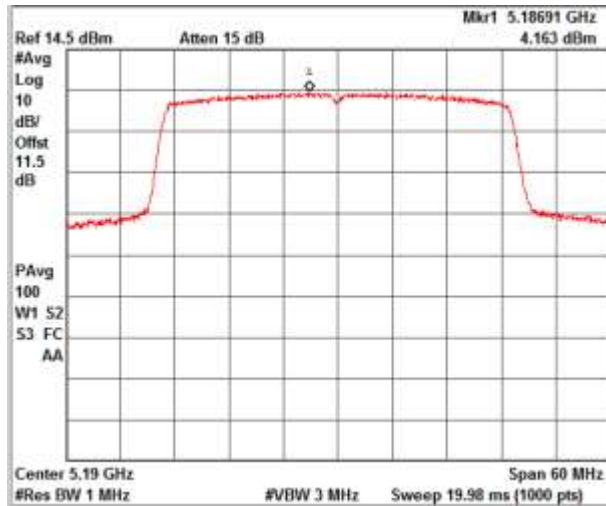
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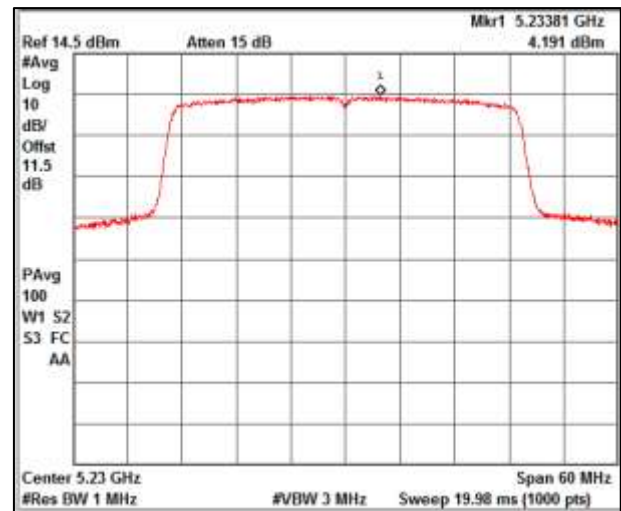
Chain-1

Modulation: 802.11ax HE40

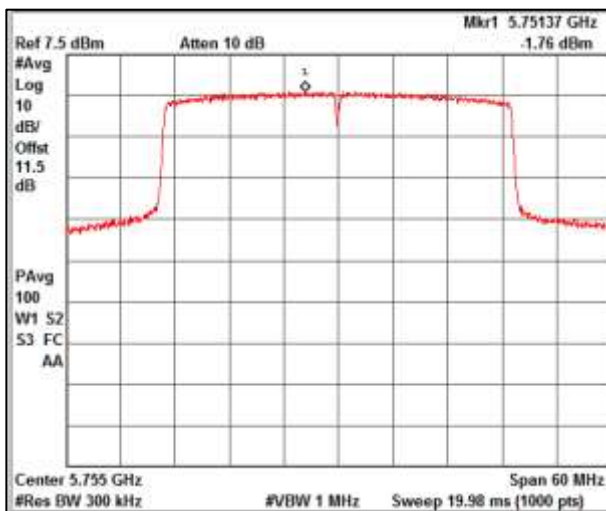
Data rate: MCS 0



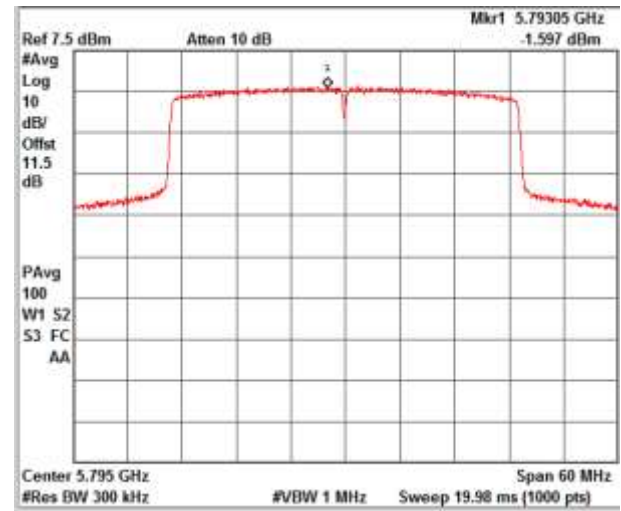
Channel Frequency-5190MHz



Channel Frequency-5230MHz

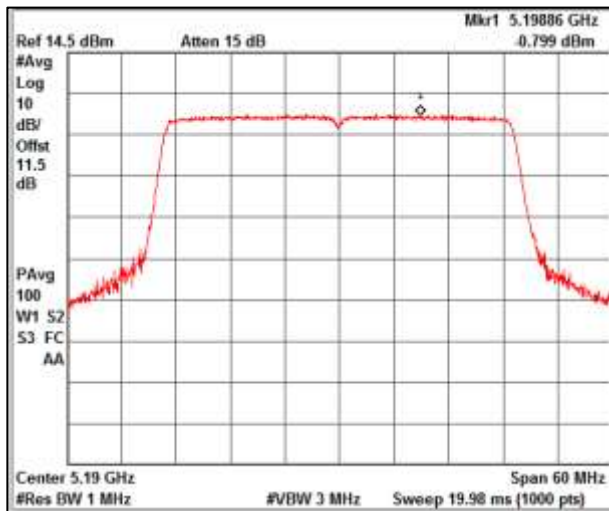


Channel Frequency-5755MHz

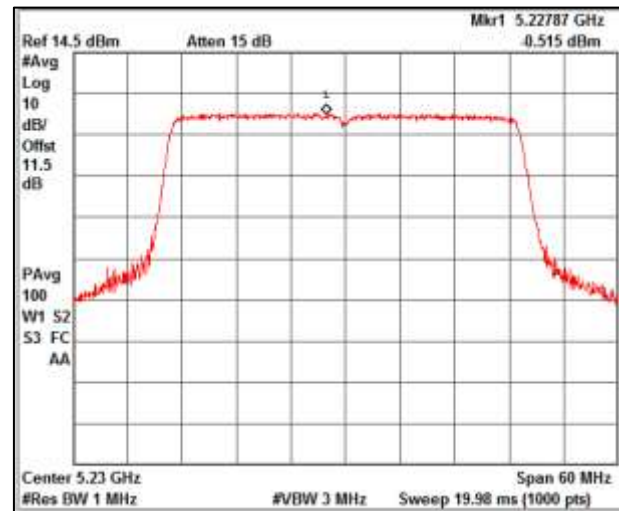


Channel Frequency-5795MHz

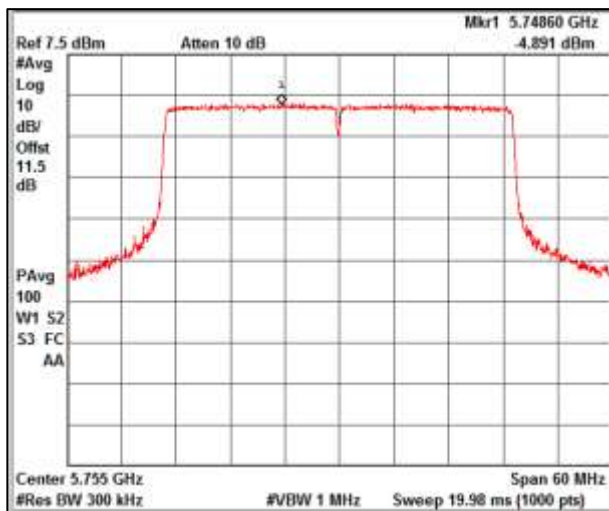
Data rate: MCS 11



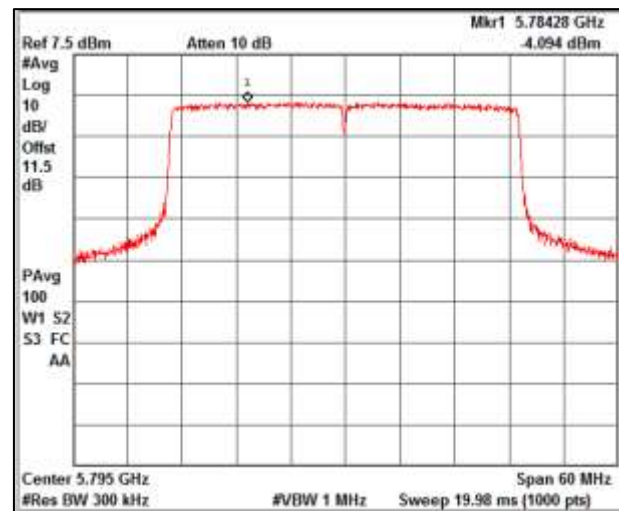
Channel Frequency-5190MHz



Channel Frequency-5230MHz



Channel Frequency-5755MHz



Channel Frequency-5795MHz

Prüfbericht - Nr.:
Test Report No.:

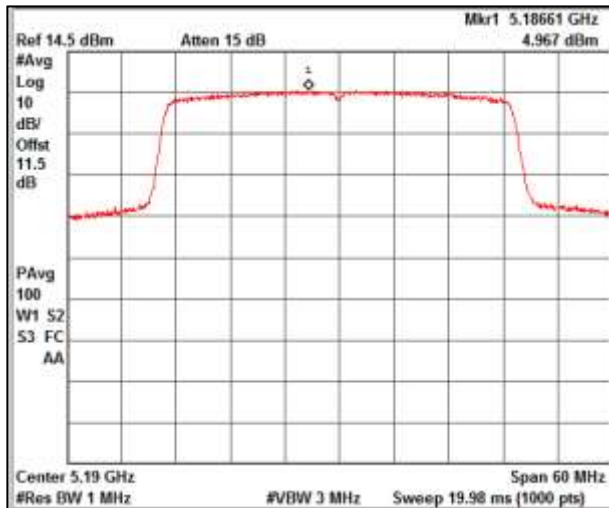
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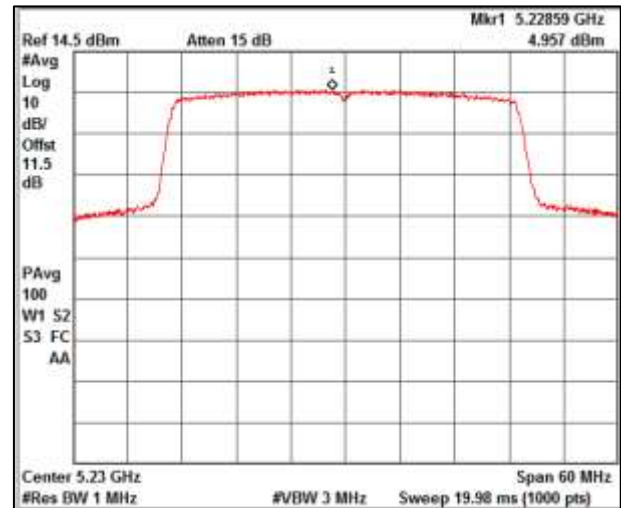
Chain-2

Modulation: 802.11ax HE40

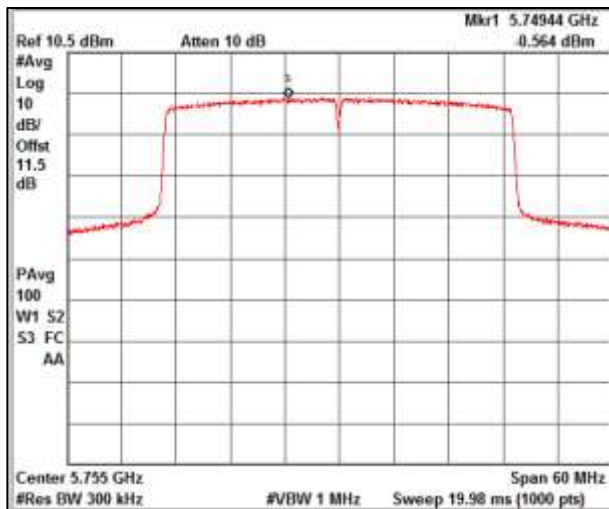
Data rate: MCS 0



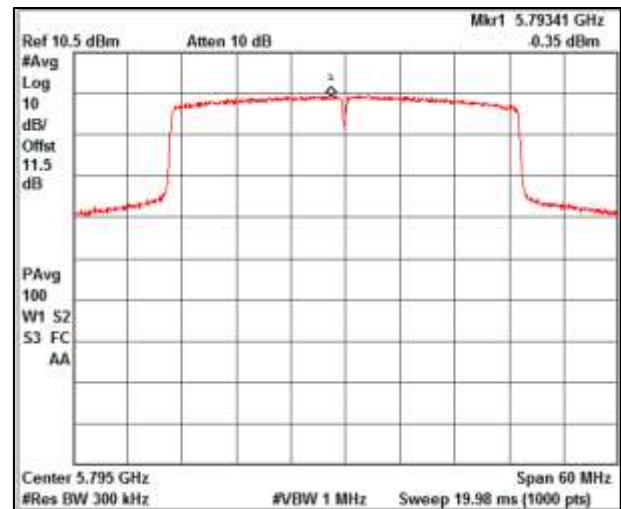
Channel Frequency-5190MHz



Channel Frequency-5230MHz

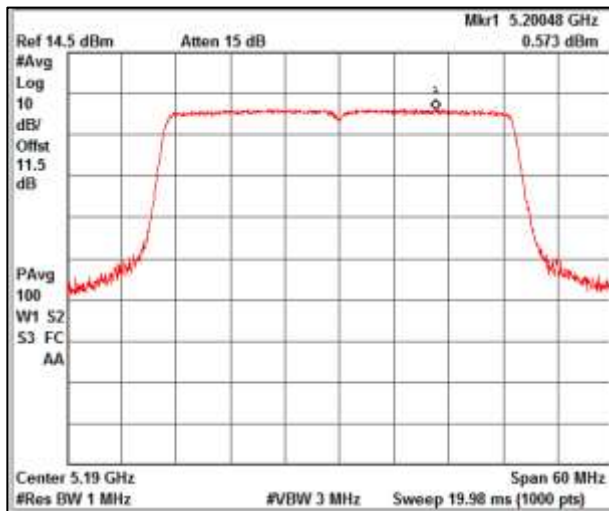


Channel Frequency-5755MHz

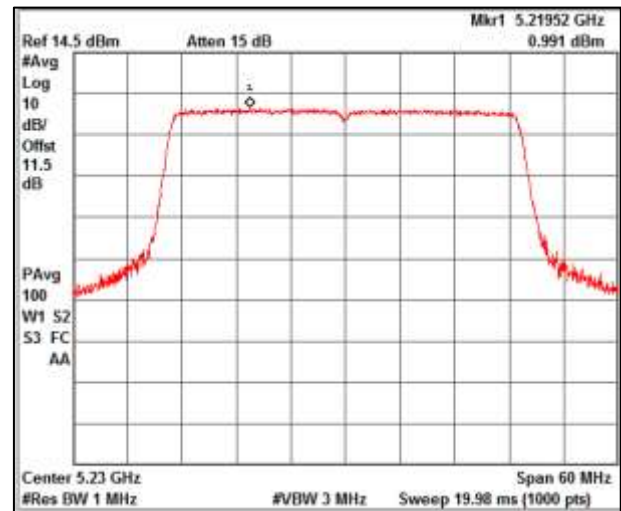


Channel Frequency-5795MHz

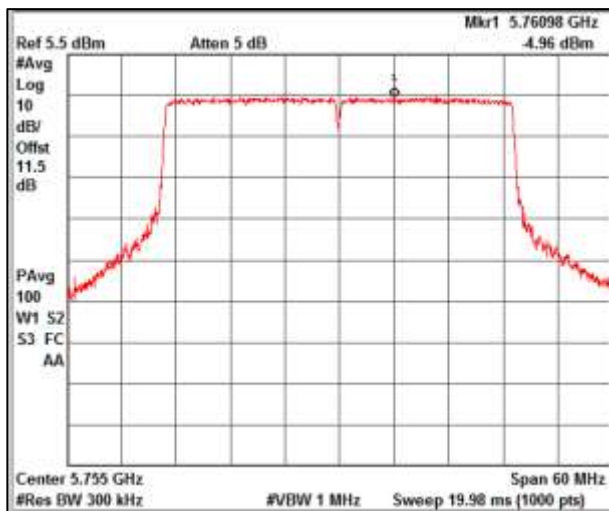
Data rate: MCS 11



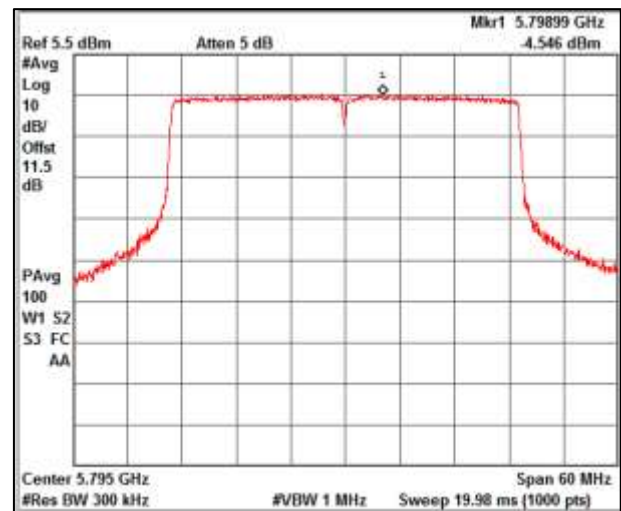
Channel Frequency-5190MHz



Channel Frequency-5230MHz



Channel Frequency-5755MHz



Channel Frequency-5795MHz

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Modulation: 802.11ac – UNII 1

Data rate	Measured Frequency (MHz)	Measured Average PSD 1 (dBm/1MHz)	Measured Average PSD 2 (dBm/1MHz)	Total Chain1 + Chain2 PSD	Duty Cycle X %	Duty cycle correction factor (dB)	Final PSD (dBm/1MHz)	FCC PSD Limit (dBm/1MHz)
ac_mode-VHT80-MCS0	5210	1.00	1.77	4.41	99.73	0.01	4.42	11.00
ac_mode-VHT80-MCS9	5210	-3.87	-2.52	-0.13	99.73	0.01	-0.12	11.00

Modulation: 802.11ac – UNII 3

Data rate	Measured Frequency (MHz)	Measured Average PSD 1 (dBm/0.3MHz)	Measured Average PSD 2 (dBm/0.3MHz)	Total Chain1 + Chain2 PSD (dBm/0.3MHz)	Duty Cycle X %	Duty cycle correction factor (dB)	Bandwidth Correction factor (dB)	Final PSD (dBm/0.5MHz)	FCC PSD Limit (dBm/0.5MHz)
ac_mode-VHT80-MCS0	5755	-4.73	-3.91	-1.29	99.73	0.01	2.22	-1.28	30.00
ac_mode-VHT80-MCS9	5755	-5.45	-7.82	-3.46	99.73	0.01	2.22	-3.45	30.00

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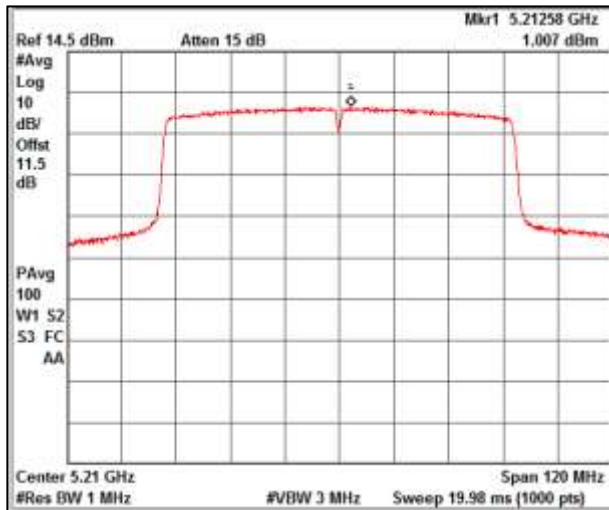
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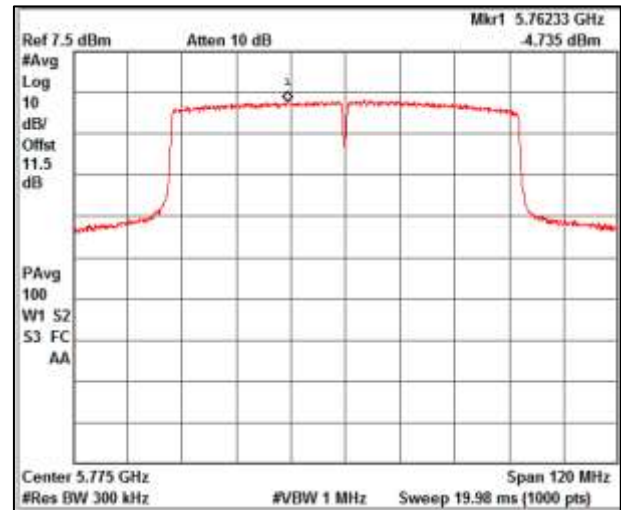
Chain-1

Modulation: 802.11ac VHT80

Data rate: MCS 0

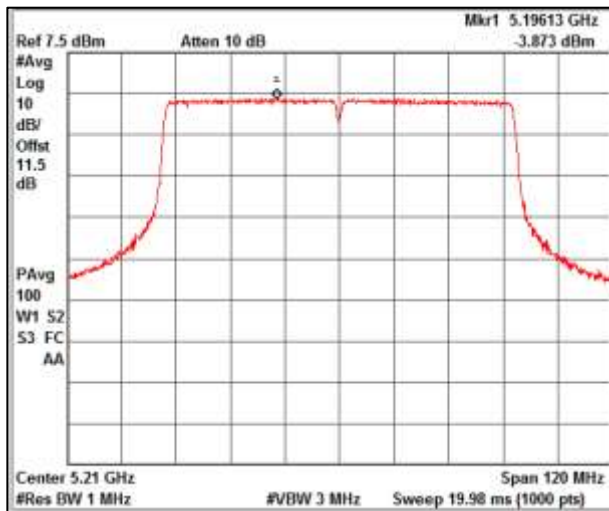


Channel Frequency-5210MHz

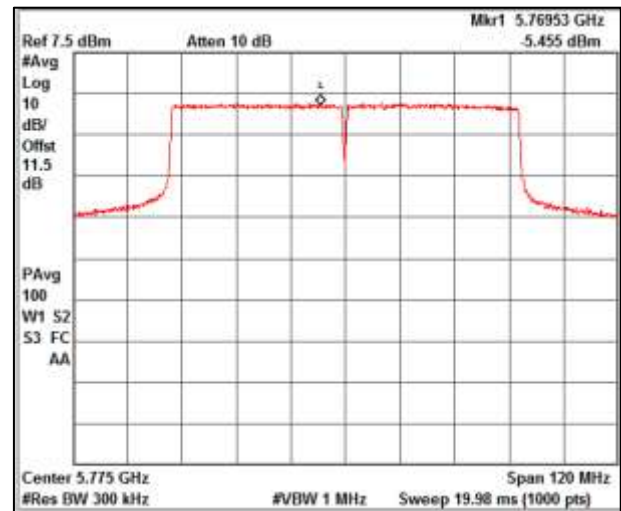


Channel Frequency-5775MHz

Data rate: MCS 9



Channel Frequency-5210MHz



Channel Frequency-5775MHz

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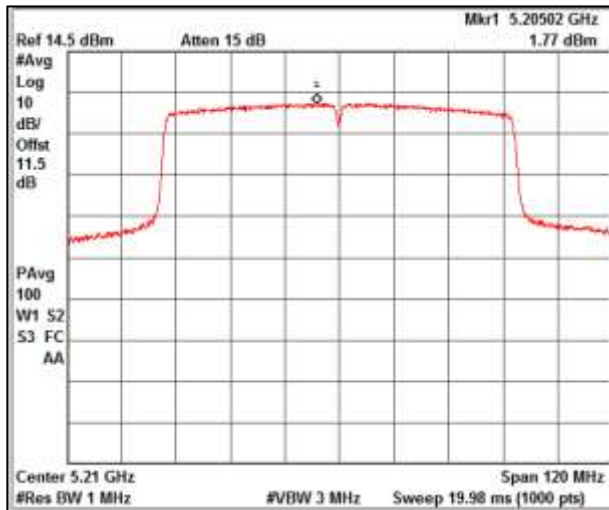
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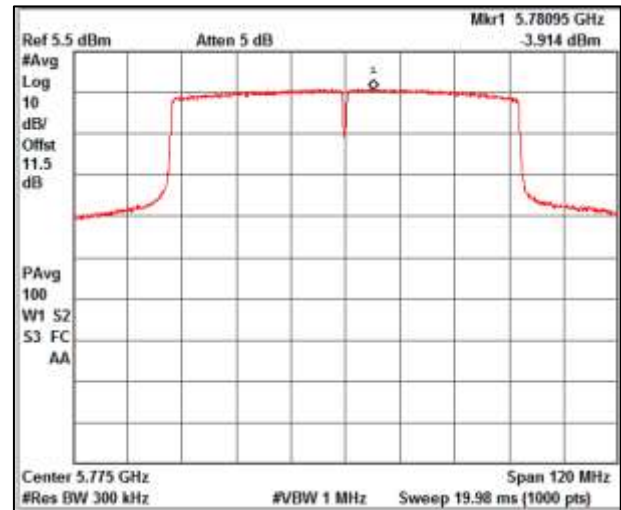
Chain-2

Modulation: 802.11ac VHT80

Data rate: MCS 0

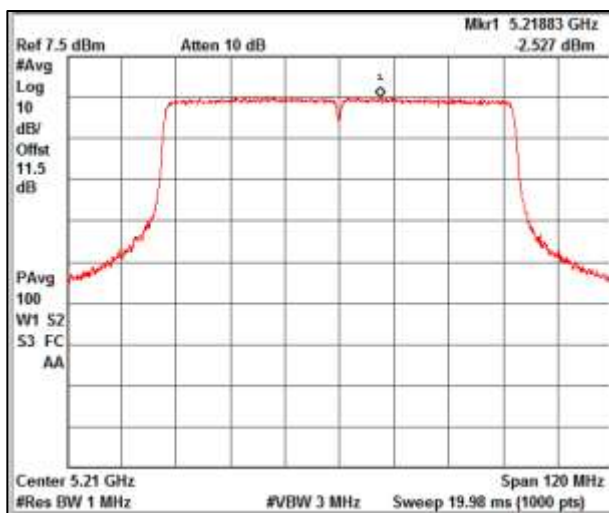


Channel Frequency-5210MHz

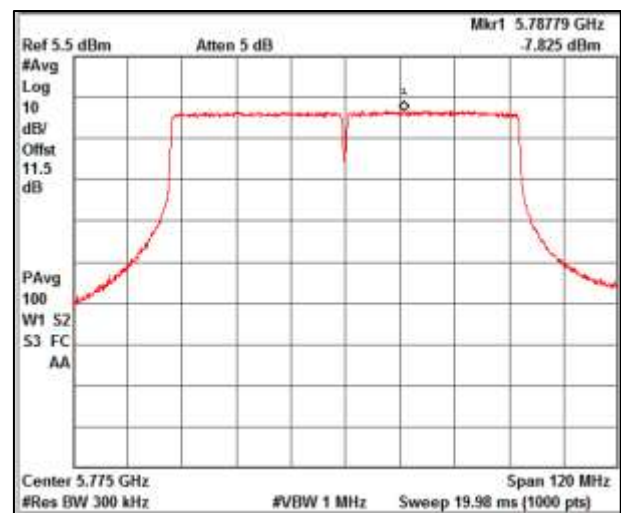


Channel Frequency-5775MHz

Data rate: MCS 9



Channel Frequency-5210MHz



Channel Frequency-5775MHz

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Modulation: 802.11ax – UNII 1, UNII2a, UNII2c

Data rate	Measured Frequency (MHz)	Measured Average PSD 1 (dBm/1MHz)	Measured Average PSD 2 (dBm/1MHz)	Total Chain1 + Chain2 PSD	Duty Cycle X %	Duty cycle correction factor (dB)	PSD (e.i.r.p) (dBm/1MHz)	FCC PSD Limit (dBm/1MHz)
ax_mode-HE80-MCS0	5210	0.07	2.42	4.41	99.73	0.01	4.42	11.00
ax_mode-HE80-MCS11	5210	-4.21	-2.74	-0.40	99.73	0.01	-0.39	11.00

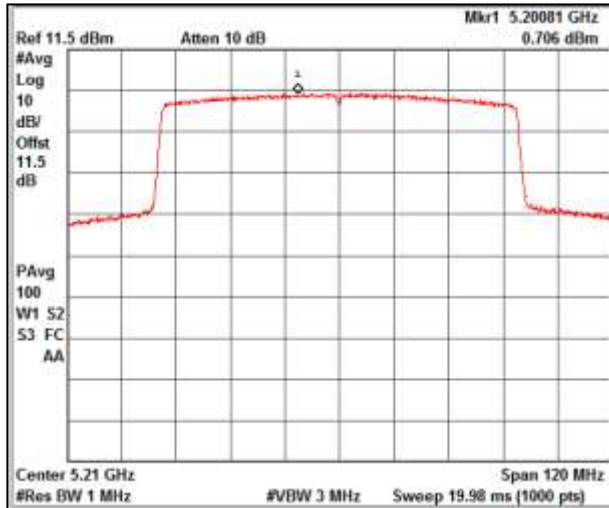
Modulation: 802.11ax – UNII 3

Data rate	Measured Frequency (MHz)	Measured Average PSD 1 (dBm/0.3MHz)	Measured Average PSD 2 (dBm/0.3MHz)	Total Chain1 + Chain2 PSD (dBm/0.3MHz)	Duty Cycle X %	Duty cycle correction factor (dB)	Bandwidth Correction factor (dB)	PSD (e.i.r.p) (dBm/0.5MHz)	FCC PSD Limit (dBm/0.5MHz)
ax_mode-HE80-MCS0	5775	-4.60	-3.62	-1.07	99.73	0.01	2.22	-1.06	30.00
ax_mode-HE80-MCS11	5775	-9.82	-7.94	-5.77	99.73	0.01	2.22	-5.76	30.00

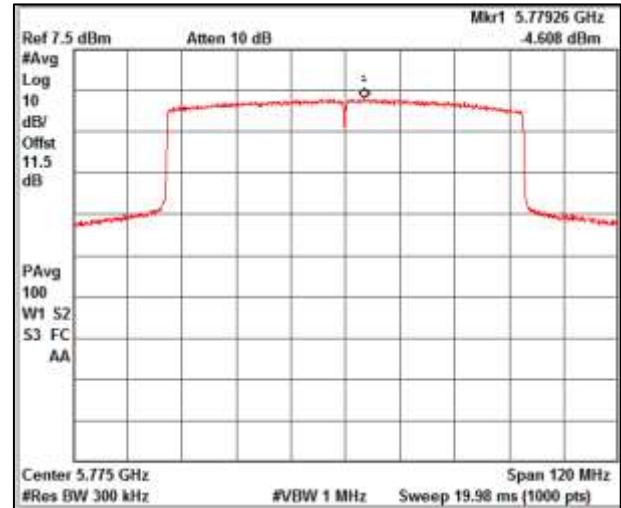
Chain-1

Modulation: 802.11ax HE80

Data rate: MCS 0

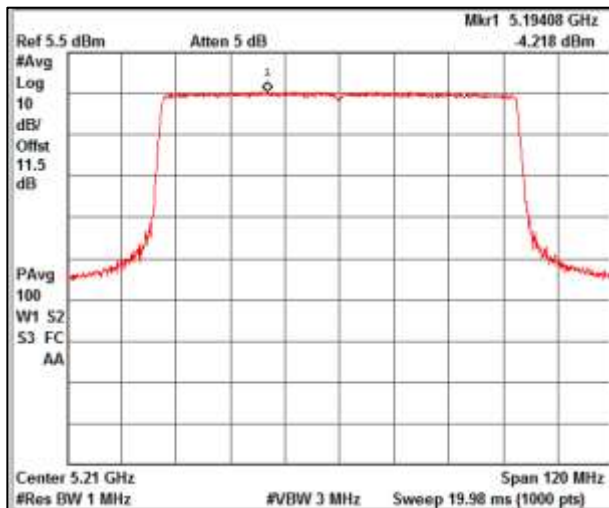


Channel Frequency-5210MHz

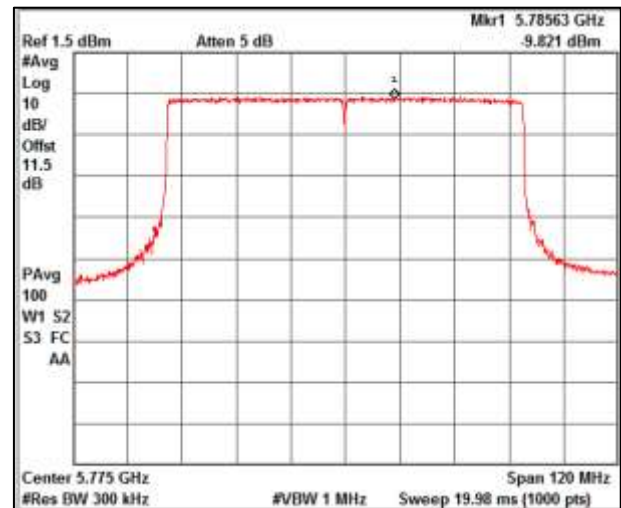


Channel Frequency-5775MHz

Data rate: MCS 11



Channel Frequency-5210MHz



Channel Frequency-5775MHz

Prüfbericht - Nr.:
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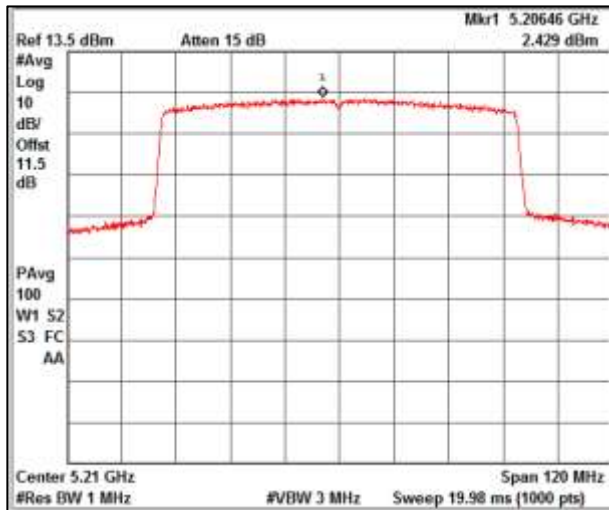
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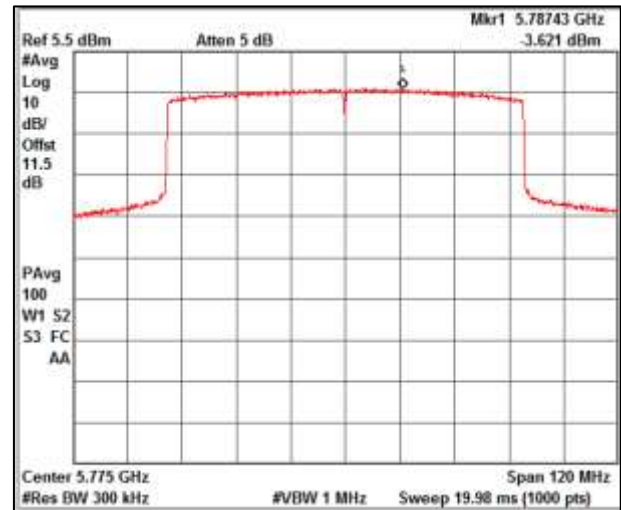
Chain-2

Modulation: 802.11ax HE80

Data rate: MCS 0

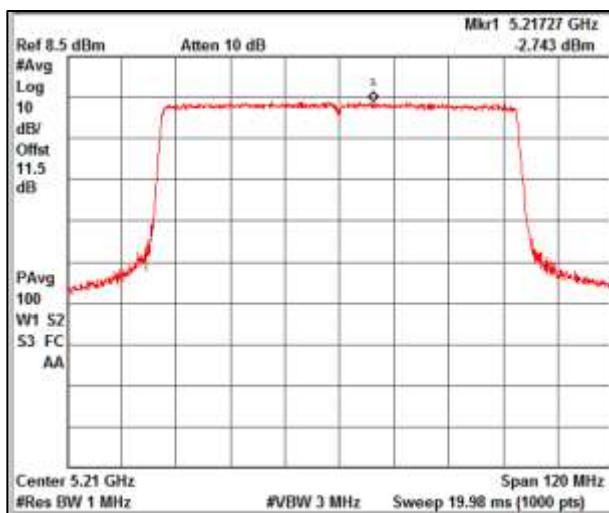


Channel Frequency-5210MHz

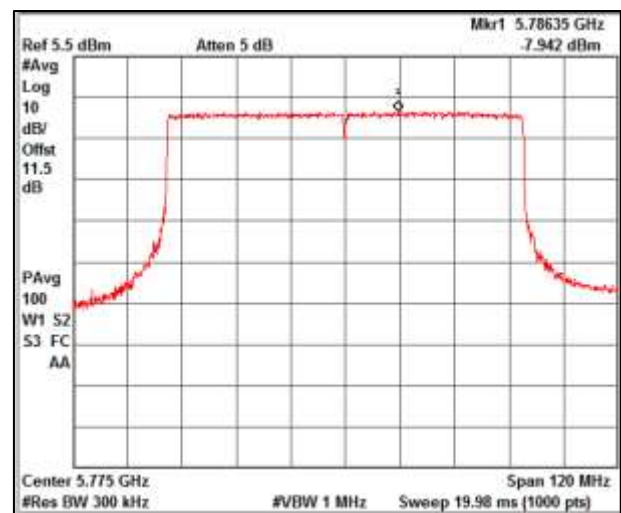


Channel Frequency-5775MHz

Data rate: MCS 11



Channel Frequency-5210MHz



Channel Frequency-5775MHz

7.4 Spurious Radiated Emissions & Restricted Bands of Operation
Result Pass

Test Specification	FCC part 15 Subpart C & E Section 15.407 (b) (15.205 & 15.209)
Test Method	ANSI C 63.10 – 2013
Measurement Bandwidth	100kHz for below 1GHz 1MHz for above 1GHz
Measurement Location	Semi Anechoic Chamber 30MHz - 1 GHz Fully Anechoic Chamber 1 GHz - 40GHz
Measuring Distance	3 m
Detector	Refer Remark
Requirement	As per the limits mentioned in the below table
Test setup	Refer TEST METHODOLOGY

Limit:

Table 6: Undesirable emission limits

Frequency Band	Limit
5.15-5.25 GHz	e.i.r.p. -27dBm [68.2 dBuV/3m]
5.725-5.85 GHz	5.715 GHz to 5.725 GHz - e.i.r.p. -17dBm [78.2 dBuV/3m] 5.85 GHz to 5.86 GHz - e.i.r.p. -17dBm [78.2 dBuV/3m] other frequency range - e.i.r.p. -27dBm [68.2 dBuV/3m]

Table 7: Transmitter limits for Radiated emission

Frequency (MHz)	Field strength (μV/m)	Field strength (dBμV/m)	Distance of Measurement (m)
0.009 – 0.490	2400/F(kHz)	48.50 – 13.80	300*
0.490 – 1.705	24000/F(kHz)	33.80 – 23.00	30*
1.705 -30	30	29.54	30*
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3

Remark: * The limit shows in the table above of frequency range 0.009 – 0.490, 0.490 – 1.705 MHz and 1.705-30MHz is at 300 meter, 30 meter and 30 meter range respectively, which corresponds to 128.51 – 93.80, 73.80 – 62.96 and 69.54 dBμV/m at 3m range by extrapolation calculation and the measurement of loop antenna.

The emission limits shown in the above table are based on measurements employing a 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.

Test Condition:

Normal Test Condition:

Temperature (Norm) = + 25 °C

Voltage = 3.8V DC through AC to DC adaptor

Relative humidity: 62%

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Test results:

Note: All the losses are included during measurement and final values are mentioned in the test report. Refer TEST METHODOLOGY for more details

Test results for Frequency range : 9kHz – 30MHz

No Emissions found in the frequency range 9kHz – 30MHz

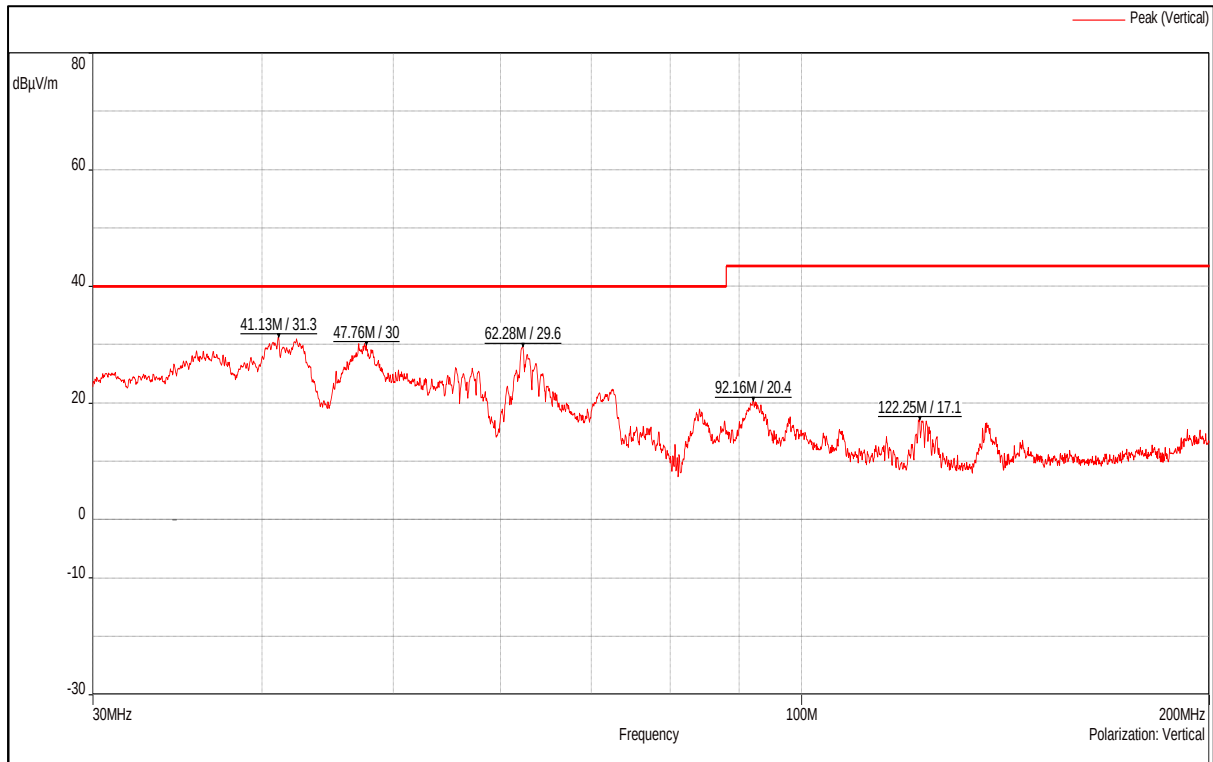
Test results for frequency range 30MHz – 1GHz

Antenna Polarization	Measured Frequency (MHz)	Measured Value (dBµV/m)	Limit (dBµV/m)	Margin (dB)
Vertical	41.13	31.30	40.00	-8.70
	47.76	30.00	40.00	-10.00
	62.28	29.60	40.00	-10.40
	92.16	20.40	43.50	-23.10
	122.25	17.10	43.50	-26.40
	245.18	24.00	46.00	-22.00
	305.24	22.20	46.00	-23.80
	342.38	21.00	46.00	-25.00
Horizontal	42.33	16.30	40.00	-23.70
	62.16	11.60	40.00	-28.40
	104.01	12.80	43.50	-30.70
	149.31	12.80	43.50	-30.70
	244.43	22.60	46.00	-23.40
	341.45	18.50	46.00	-27.50
	468.44	17.80	46.00	-28.20

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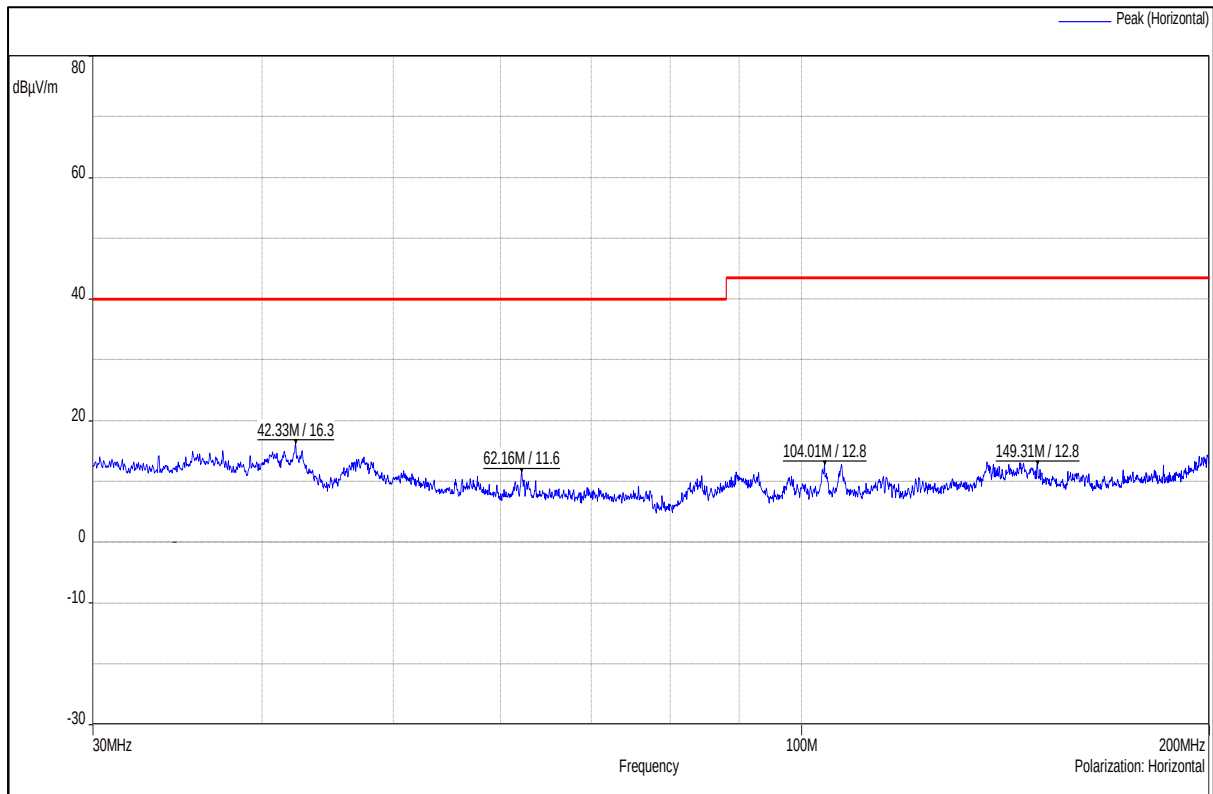
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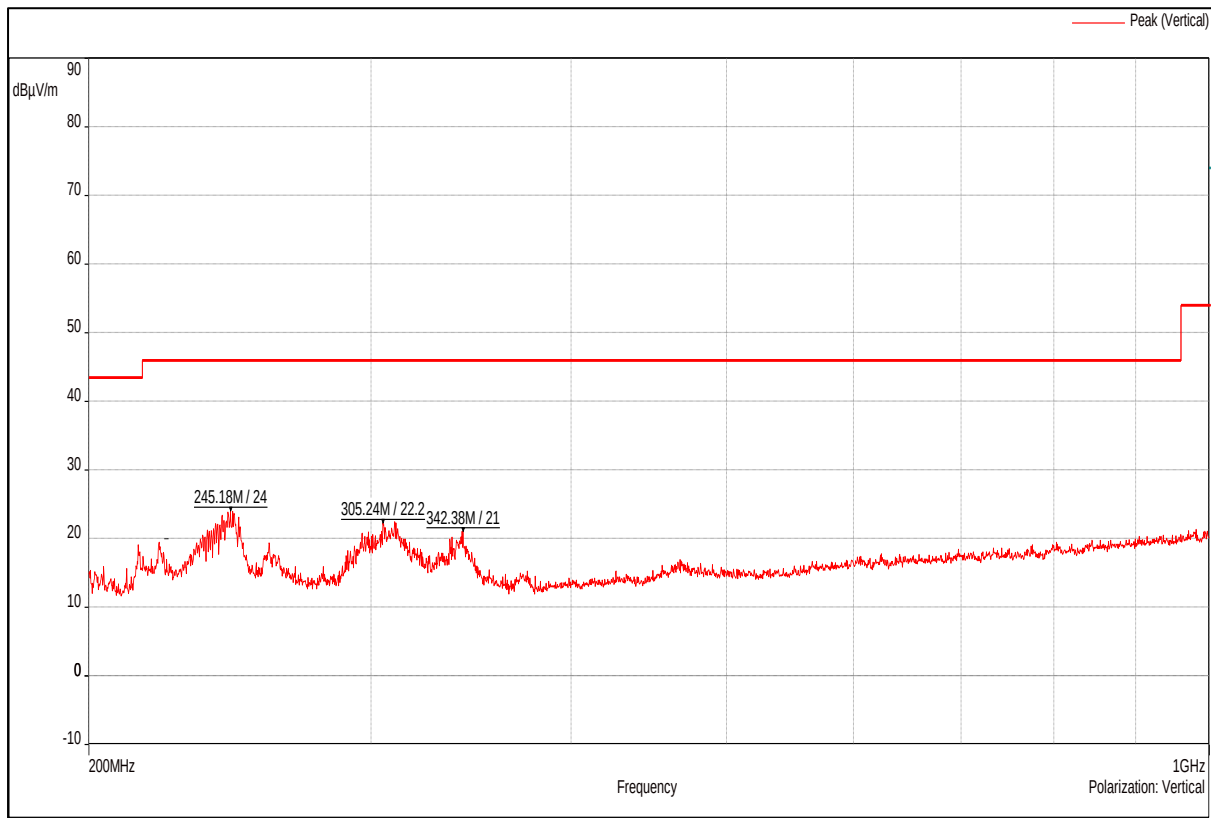
Channel Frequency 30MHz – 200MHz

Polarization Vertical



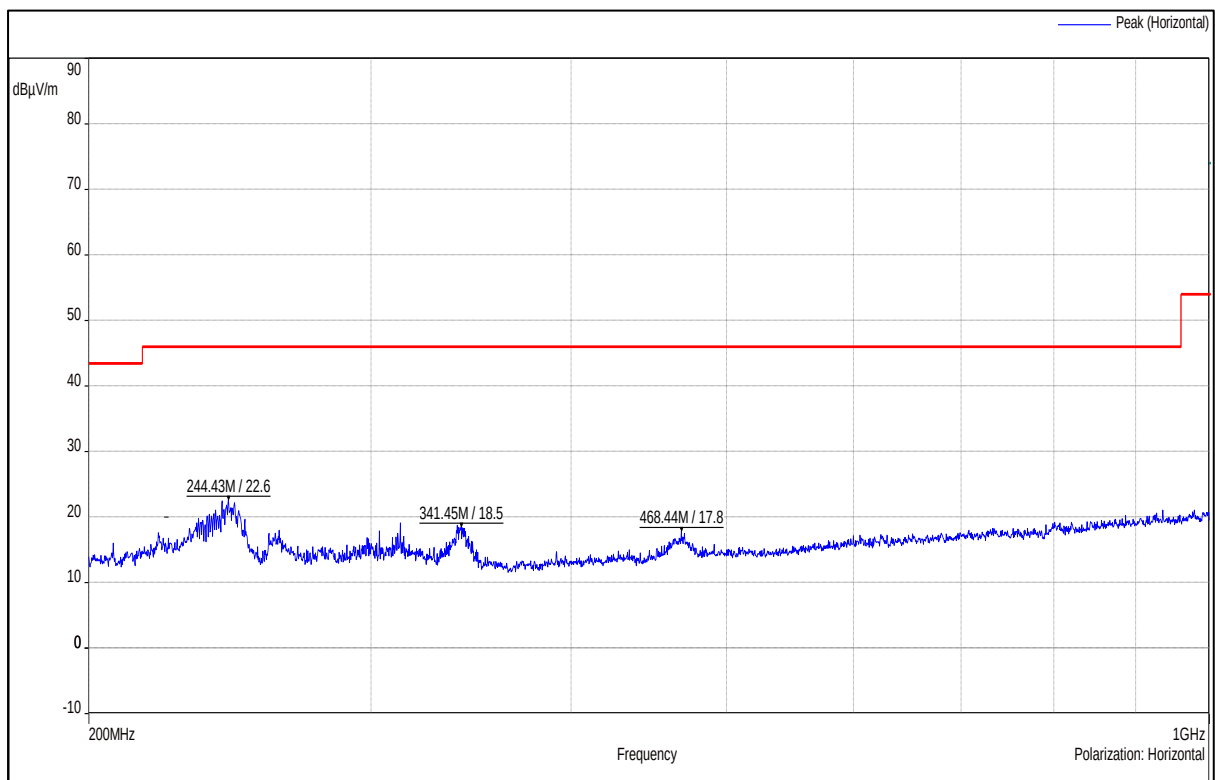
Channel Frequency 30MHz – 200MHz

Polarization Horizontal



Channel Frequency 200MHz – 1GHz

Polarization Vertical



Channel Frequency 200MHz – 1GHz

Polarization Horizontal

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Test results for frequency range – 1GHz to 40 GHz

Modulation: 802.11a
Data rate: 6Mbps

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5180	5180 (Pk)	Vertical	104.50	-	-
	5180 (Av)		95.41	-	-
	5150 (Pk)		59.65	74.00	-14.35
	5150 (Av)		43.30	54.00	-10.70
	10360 (Pk)		53.28	68.23	-14.95
	10360 (Av)		40.03	54.00	-13.97
	15540 (Pk)		55.33	68.23	-12.90
	15540 (Av)		42.05	54.00	-11.95
	5180 (Pk)	Horizontal	105.36	-	-
	5180 (Av)		96.62	-	-
	5150 (Pk)		60.48	74.00	-13.52
	5150 (Av)		45.04	54.00	-8.96
	10360 (Pk)		51.91	68.23	-16.32
	10360 (Av)		39.98	54.00	-14.02
	15540 (Pk)		54.07	68.23	-14.16
	15540 (Av)		42.05	54.00	-11.95
5240	5240 (Pk)	Vertical	103.93	-	-
	5240 (Av)		93.89	-	-
	5350 (Pk)		42.62	74.00	-31.38
	5350 (Av)		29.93	54.00	-24.07
	10480 (Pk)		52.81	68.23	-15.42
	10480 (Av)		40.39	54.00	-13.61
	15720 (Pk)		54.11	68.23	-14.12
	15720 (Av)		41.54	54.00	-12.46
	5240 (Pk)	Horizontal	102.74	-	-
	5240 (Av)		94.04	-	-
	5350 (Pk)		42.36	74.00	-31.64
	5350 (Av)		29.91	54.00	-24.09
	10480 (Pk)		52.54	68.23	-15.69
	10480 (Av)		40.36	54.00	-13.64
	15720 (Pk)		53.64	68.23	-14.59
	15720 (Av)		41.52	54.00	-12.48
5745	5745 (Pk)	Vertical	100.54	-	-
	5745 (Av)		92.08	-	-
	5715(Pk)		47.91	78.20	-30.29
	5725(Pk)		54.75	78.20	-23.45
	11490 (Pk)		55.28	68.23	-12.95
	11490 (Av)		43.09	54.00	-10.91
	17235 (Pk)		57.72	68.23	-10.51
	17235 (Av)		45.77	54.00	-8.23
	5745 (Pk)	Horizontal	95.56	-	-
	5745 (Av)		87.08	-	-
	5715(Pk)		44.08	78.20	-34.12
	5725(Pk)		51.59	78.20	-26.61
	11490 (Pk)		55.63	68.23	-12.60
	11490 (Av)		42.95	54.00	-11.05
	17235 (Pk)		59.00	68.23	-9.23
	17235 (Av)		45.85	54.00	-8.15

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Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5825	5825 (Pk)	Vertical	101.80	-	-
	5825 (Av)		93.42	-	-
	5850 (Pk)		58.82	78.20	-19.38
	5860 (Pk)		48.43	78.20	-29.77
	11650 (Pk)		55.45	68.23	-12.78
	11650 (Av)		43.00	54.00	-11.00
	17475 (Pk)		60.54	68.23	-7.69
	17475 (Av)		47.43	54.00	-6.57
	5825 (Pk)	Horizontal	97.65	-	-
	5825 (Av)		88.73	-	-
	5850 (Pk)		53.95	78.20	-24.25
	5860 (Pk)		45.79	78.20	-32.41
	11650 (Pk)		55.44	68.23	-12.79
	11650 (Av)		42.24	54.00	-11.76
	17475 (Pk)		60.10	68.23	-8.13
	17475 (Pk)		47.46	54.00	-6.54

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

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Modulation: 802.11a
Data rate: 54Mbps

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5180	5180 (Pk)	Vertical	104.42	-	-
	5180 (Av)		93.45	-	-
	5150 (Pk)		63.43	74.00	-10.57
	5150 (Av)		41.18	54.00	-12.82
	10360 (Pk)		52.53	68.23	-15.70
	10360 (Av)		39.98	54.00	-14.02
	15540 (Pk)		54.28	68.23	-13.95
	15540 (Av)		42.03	54.00	-11.97
	5180 (Pk)	Horizontal	105.06	-	-
	5180 (Av)		94.60	-	-
	5150 (Pk)		65.78	74.00	-8.22
	5150 (Av)		43.92	54.00	-10.08
	10360 (Pk)		52.29	68.23	-15.94
	10360 (Av)		39.96	54.00	-14.04
	15540 (Pk)		54.77	68.23	-13.46
	15540 (Av)		42.03	54.00	-11.97
5240	5240 (Pk)	Vertical	103.14	-	-
	5240 (Av)		91.88	-	-
	5350 (Pk)		43.65	74.00	-30.35
	5350 (Av)		29.88	54.00	-24.12
	10480 (Pk)		51.95	68.23	-16.28
	10480 (Av)		40.36	54.00	-13.64
	15720 (Pk)		53.82	68.23	-14.41
	15720 (Av)		41.52	54.00	-12.48
	5240 (Pk)	Horizontal	103.38	-	-
	5240 (Av)		92.62	-	-
	5350 (Pk)		42.55	74.00	-31.45
	5350 (Av)		29.88	54.00	-24.12
	10480 (Pk)		53.43	68.23	-14.80
	10480 (Av)		40.36	54.00	-13.64
	15720 (Pk)		54.14	68.23	-14.09
	15720 (Av)		41.55	54.00	-12.45
5745	5745 (Pk)	Vertical	100.96	-	-
	5745 (Av)		90.19	-	-
	5715(Pk)		54.85	78.20	-23.35
	5725(Pk)		65.60	78.20	-12.60
	11490 (Pk)		55.16	68.23	-13.07
	11490 (Av)		43.04	54.00	-10.96
	17235 (Pk)		57.62	68.23	-10.61
	17235 (Av)		45.97	54.00	-8.03
	5745 (Pk)	Horizontal	96.32	-	-
	5745 (Av)		85.12	-	-
	5715(Pk)		49.53	78.20	-28.67
	5725(Pk)		60.18	78.20	-18.02
	11490 (Pk)		55.00	68.23	-13.23
	11490 (Av)		42.83	54.00	-11.17
	17235 (Pk)		57.92	68.23	-10.31
	17235 (Av)		45.77	54.00	-8.23

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Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5825	5825 (Pk)	Vertical	102.53	-	-
	5825 (Av)		92.02	-	-
	5850 (Pk)		60.88	78.20	-17.32
	5860 (Pk)		54.01	78.20	-24.19
	11650 (Pk)		55.58	68.23	-12.65
	11650 (Av)		42.65	54.00	-11.35
	17475 (Pk)		59.14	68.23	-9.09
	17475 (Av)		47.41	54.00	-6.59
	5825 (Pk)	Horizontal	96.95	-	-
	5825 (Av)		86.18	-	-
	5850 (Pk)		54.45	78.20	-23.75
	5860 (Pk)		49.45	78.20	-28.75
	11650 (Pk)		55.16	68.23	-13.07
	11650 (Av)		42.17	54.00	-11.83
	17475 (Pk)		60.02	68.23	-8.21
	17475 (Pk)		47.40	54.00	-6.60

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

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Modulation: 802.11n_HT 20MHz

Data rate: MCS0

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5180	5180 (Pk)	Vertical	104.79	-	-
	5180 (Av)		92.88	-	-
	5150 (Pk)		55.70	74.00	-18.30
	5150 (Av)		39.28	54.00	-14.72
	10360 (Pk)		52.22	68.23	-16.01
	10360 (Av)		39.95	54.00	-14.05
	15540 (Pk)		54.49	68.23	-13.74
	15540 (Av)		41.97	54.00	-12.03
	5180 (Pk)	Horizontal	105.16	-	-
	5180 (Av)		93.64	-	-
	5150 (Pk)		56.52	74.00	-17.48
	5150 (Av)		40.82	54.00	-13.18
	10360 (Pk)		52.56	68.23	-15.67
	10360 (Av)		39.91	54.00	-14.09
	15540 (Pk)		54.60	68.23	-13.63
	15540 (Av)		41.98	54.00	-12.02
5240	5240 (Pk)	Vertical	103.03	-	-
	5240 (Av)		91.54	-	-
	5350 (Pk)		42.15	74.00	-31.85
	5350 (Av)		29.90	54.00	-24.10
	10480 (Pk)		52.51	68.23	-15.72
	10480 (Av)		40.39	54.00	-13.61
	15720 (Pk)		53.66	68.23	-14.57
	15720 (Av)		41.52	54.00	-12.48
	5240 (Pk)	Horizontal	103.52	-	-
	5240 (Av)		91.30	-	-
	5350 (Pk)		42.32	74.00	-31.68
	5350 (Av)		29.94	54.00	-24.06
	10480 (Pk)		52.66	68.23	-15.57
	10480 (Av)		40.41	54.00	-13.59
	15720 (Pk)		53.61	68.23	-14.62
	15720 (Av)		41.50	54.00	-12.50
5745	5745 (Pk)	Vertical	100.98	-	-
	5745 (Av)		89.20	-	-
	5715(Pk)		45.49	78.20	-32.71
	5725(Pk)		53.10	78.20	-25.10
	11490 (Pk)		55.35	68.23	-12.88
	11490 (Av)		42.99	54.00	-11.01
	17235 (Pk)		59.04	68.23	-9.19
	17235 (Av)		45.80	54.00	-8.20
	5745 (Pk)	Horizontal	95.17	-	-
	5745 (Av)		84.26	-	-
	5715(Pk)		42.94	78.20	-35.26
	5725(Pk)		47.68	78.20	-30.52
	11490 (Pk)		56.48	68.23	-11.75
	11490 (Av)		42.86	54.00	-11.14
	17235 (Pk)		57.38	68.23	-10.85
	17235 (Av)		45.72	54.00	-8.28

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

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Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5825	5825 (Pk)	Vertical	102.71	-	-
	5825 (Av)		90.99	-	-
	5850 (Pk)		56.55	78.20	-21.65
	5860 (Pk)		46.80	78.20	-31.40
	11650 (Pk)		54.99	68.23	-13.24
	11650 (Av)		42.72	54.00	-11.28
	17475 (Pk)		59.17	68.23	-9.06
	17475 (Av)		47.40	54.00	-6.60
	5825 (Pk)	Horizontal	97.27	-	-
	5825 (Av)		86.11	-	-
	5850 (Pk)		52.05	78.20	-26.15
	5860 (Pk)		43.59	78.20	-34.61
	11650 (Pk)		53.42	68.23	-14.81
	11650 (Av)		42.15	54.00	-11.85
	17475 (Pk)		59.14	68.23	-9.09
	17475 (Pk)		47.39	54.00	-6.61

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

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Modulation: 802.11n_HT 20MHz

Data rate: MCS7

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5180	5180 (Pk)	Vertical	101.39	-	-
	5180 (Av)		90.69	-	-
	5150 (Pk)		59.63	74.00	-14.37
	5150 (Av)		39.45	54.00	-14.55
	10360 (Pk)		52.00	68.23	-16.23
	10360 (Av)		39.94	54.00	-14.06
	15540 (Pk)		53.79	68.23	-14.44
	15540 (Av)		41.96	54.00	-12.04
	5180 (Pk)	Horizontal	101.53	-	-
	5180 (Av)		91.73	-	-
	5150 (Pk)		60.70	74.00	-13.30
	5150 (Av)		40.87	54.00	-13.13
	10360 (Pk)		52.62	68.23	-15.61
	10360 (Av)		39.87	54.00	-14.13
	15540 (Pk)		53.61	68.23	-14.62
	15540 (Av)		41.97	54.00	-12.03
5240	5240 (Pk)	Vertical	100.28	-	-
	5240 (Av)		89.47	-	-
	5350 (Pk)		42.60	74.00	-31.40
	5350 (Av)		29.95	54.00	-24.05
	10480 (Pk)		52.92	68.23	-15.31
	10480 (Av)		40.33	54.00	-13.67
	15720 (Pk)		53.62	68.23	-14.61
	15720 (Av)		41.48	54.00	-12.52
	5240 (Pk)	Horizontal	101.12	-	-
	5240 (Av)		89.48	-	-
	5350 (Pk)		42.68	74.00	-31.32
	5350 (Av)		29.99	54.00	-24.01
	10480 (Pk)		52.43	68.23	-15.80
	10480 (Av)		40.32	54.00	-13.68
	15720 (Pk)		54.10	68.23	-14.13
	15720 (Av)		41.53	54.00	-12.47
5745	5745 (Pk)	Vertical	99.06	-	-
	5745 (Av)		87.62	-	-
	5715(Pk)		51.60	78.20	-26.60
	5725(Pk)		61.94	78.20	-16.26
	11490 (Pk)		54.96	68.23	-13.27
	11490 (Av)		42.91	54.00	-11.09
	17235 (Pk)		57.70	68.23	-10.53
	17235 (Av)		45.69	54.00	-8.31
	5745 (Pk)	Horizontal	93.72	-	-
	5745 (Av)		82.30	-	-
	5715(Pk)		47.55	78.20	-30.65
	5725(Pk)		55.00	78.20	-23.20
	11490 (Pk)		54.98	68.23	-13.25
	11490 (Av)		42.85	54.00	-11.15
	17235 (Pk)		57.76	68.23	-10.47
	17235 (Av)		45.71	54.00	-8.29

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

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Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5825	5825 (Pk)	Vertical	99.55	-	-
	5825 (Av)		88.42	-	-
	5850 (Pk)		57.76	78.20	-20.44
	5860 (Pk)		50.42	78.20	-27.78
	11650 (Pk)		53.87	68.23	-14.36
	11650 (Av)		42.44	54.00	-11.56
	17475 (Pk)		59.31	68.23	-8.92
	17475 (Av)		47.40	54.00	-6.60
	5825 (Pk)	Horizontal	105.83	-	-
	5825 (Av)		94.16	-	-
	5850 (Pk)		62.95	78.20	-15.25
	5860 (Pk)		56.14	78.20	-22.06
	11650 (Pk)		55.60	68.23	-12.63
	11650 (Av)		42.21	54.00	-11.79
	17475 (Pk)		59.61	68.23	-8.62
	17475 (Pk)		47.39	54.00	-6.61

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

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Modulation: 802.11ac_VHT 20MHz

Data rate: MCS0

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5180	5180 (Pk)	Vertical	104.38	-	-
	5180 (Av)		93.14	-	-
	5150 (Pk)		54.47	74.00	-19.53
	5150 (Av)		38.90	54.00	-15.10
	10360 (Pk)		52.58	68.23	-15.65
	10360 (Av)		40.09	54.00	-13.91
	15540 (Pk)		54.75	68.23	-13.48
	15540 (Av)		42.16	54.00	-11.84
	5180 (Pk)	Horizontal	101.18	-	-
	5180 (Av)		89.99	-	-
	5150 (Pk)		51.70	74.00	-22.30
	5150 (Av)		36.59	54.00	-17.41
	10360 (Pk)		52.27	68.23	-15.96
	10360 (Av)		40.04	54.00	-13.96
	15540 (Pk)		54.34	68.23	-13.89
	15540 (Av)		42.10	54.00	-11.90
5240	5240 (Pk)	Vertical	104.58	-	-
	5240 (Av)		91.89	-	-
	5350 (Pk)		42.97	74.00	-31.03
	5350 (Av)		29.92	54.00	-24.08
	10480 (Pk)		53.61	68.23	-14.62
	10480 (Av)		40.42	54.00	-13.58
	15720 (Pk)		54.09	68.23	-14.14
	15720 (Av)		41.61	54.00	-12.39
	5240 (Pk)	Horizontal	98.74	-	-
	5240 (Av)		87.46	-	-
	5350 (Pk)		41.87	74.00	-32.13
	5350 (Av)		29.55	54.00	-24.45
	10480 (Pk)		52.54	68.23	-15.69
	10480 (Av)		40.42	54.00	-13.58
	15720 (Pk)		53.85	68.23	-14.38
	15720 (Av)		41.58	54.00	-12.42
5745	5745 (Pk)	Vertical	101.21	-	-
	5745 (Av)		89.45	-	-
	5715(Pk)		43.98	78.20	-34.22
	5725(Pk)		50.60	78.20	-27.60
	11490 (Pk)		55.03	68.23	-13.20
	11490 (Av)		43.07	54.00	-10.93
	17235 (Pk)		57.74	68.23	-10.49
	17235 (Av)		45.79	54.00	-8.21
	5745 (Pk)	Horizontal	95.83	-	-
	5745 (Av)		85.10	-	-
	5715(Pk)		42.80	78.20	-35.40
	5725(Pk)		47.77	78.20	-30.43
	11490 (Pk)		55.20	68.23	-13.03
	11490 (Av)		42.87	54.00	-11.13
	17235 (Pk)		57.72	68.23	-10.51
	17235 (Av)		45.78	54.00	-8.22

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

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Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5825	5825 (Pk)	Vertical	102.51	-	-
	5825 (Av)		91.15	-	-
	5850 (Pk)		54.51	78.20	-23.69
	5860 (Pk)		44.56	78.20	-33.64
	11650 (Pk)		55.11	68.23	-13.12
	11650 (Av)		42.70	54.00	-11.30
	17475 (Pk)		59.53	68.23	-8.70
	17475 (Av)		47.40	54.00	-6.60
	5825 (Pk)	Horizontal	98.42	-	-
	5825 (Av)		87.45	-	-
	5850 (Pk)		51.82	78.20	-26.38
	5860 (Pk)		43.56	78.20	-34.64
	11650 (Pk)		55.27	68.23	-12.96
	11650 (Av)		42.18	54.00	-11.82
	17475 (Pk)		59.24	68.23	-8.99
	17475 (Pk)		47.42	54.00	-6.58

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

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Modulation: 802.11ac_VHT 20MHz

Data rate: MCS9

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5180	5180 (Pk)	Vertical	101.76	-	-
	5180 (Av)		91.19	-	-
	5150 (Pk)		56.96	74.00	-17.04
	5150 (Av)		36.01	54.00	-17.99
	10360 (Pk)		51.48	68.23	-16.75
	10360 (Av)		39.96	54.00	-14.04
	15540 (Pk)		54.54	68.23	-13.69
	15540 (Av)		41.95	54.00	-12.05
	5180 (Pk)	Horizontal	97.54	-	-
	5180 (Av)		87.00	-	-
	5150 (Pk)		53.31	74.00	-20.69
	5150 (Av)		33.40	54.00	-20.60
	10360 (Pk)		52.32	68.23	-15.91
	10360 (Av)		39.91	54.00	-14.09
	15540 (Pk)		53.80	68.23	-14.43
	15540 (Av)		41.97	54.00	-12.03
5240	5240 (Pk)	Vertical	99.43	-	-
	5240 (Av)		89.43	-	-
	5350 (Pk)		42.34	74.00	-31.66
	5350 (Av)		29.90	54.00	-24.10
	10480 (Pk)		52.60	68.23	-15.63
	10480 (Av)		40.34	54.00	-13.66
	15720 (Pk)		53.88	68.23	-14.35
	15720 (Av)		41.51	54.00	-12.49
	5240 (Pk)	Horizontal	96.04	-	-
	5240 (Av)		85.47	-	-
	5350 (Pk)		42.65	74.00	-31.35
	5350 (Av)		29.52	54.00	-24.48
	10480 (Pk)		53.60	68.23	-14.63
	10480 (Av)		40.36	54.00	-13.64
	15720 (Pk)		53.51	68.23	-14.72
	15720 (Av)		41.50	54.00	-12.50
5745	5745 (Pk)	Vertical	97.93	-	-
	5745 (Av)		87.17	-	-
	5715(Pk)		48.48	78.20	-29.72
	5725(Pk)		58.08	78.20	-20.12
	11490 (Pk)		54.99	68.23	-13.24
	11490 (Av)		42.90	54.00	-11.10
	17235 (Pk)		57.71	68.23	-10.52
	17235 (Av)		45.75	54.00	-8.25
	5745 (Pk)	Horizontal	93.28	-	-
	5745 (Av)		82.19	-	-
	5715(Pk)		43.87	78.20	-34.33
	5725(Pk)		51.26	78.20	-26.94
	11490 (Pk)		55.91	68.23	-12.32
	11490 (Av)		42.85	54.00	-11.15
	17235 (Pk)		58.07	68.23	-10.16
	17235 (Av)		45.73	54.00	-8.27

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

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Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5825	5825 (Pk)	Vertical	100.91	-	-
	5825 (Av)		89.07	-	-
	5850 (Pk)		57.02	78.20	-21.18
	5860 (Pk)		47.26	78.20	-30.94
	11650 (Pk)		54.33	68.23	-13.90
	11650 (Av)		42.35	54.00	-11.65
	17475 (Pk)		59.96	68.23	-8.27
	17475 (Av)		47.38	54.00	-6.62
	5825 (Pk)	Horizontal	94.15	-	-
	5825 (Av)		83.70	-	-
	5850 (Pk)		51.97	78.20	-26.23
	5860 (Pk)		43.40	78.20	-34.80
	11650 (Pk)		54.15	68.23	-14.08
	11650 (Av)		42.18	54.00	-11.82
	17475 (Pk)		60.85	68.23	-7.38
	17475 (Pk)		47.37	54.00	-6.63

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

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Modulation: 802.11ax_ HE 20MHz

Data rate: MCS0

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5180	5180 (Pk)	Vertical	105.54	-	-
	5180 (Av)		92.81	-	-
	5150 (Pk)		60.93	74.00	-13.07
	5150 (Av)		43.13	54.00	-10.87
	10360 (Pk)		51.99	68.23	-16.24
	10360 (Av)		39.90	54.00	-14.10
	15540 (Pk)		53.97	68.23	-14.26
	15540 (Av)		41.97	54.00	-12.03
	5180 (Pk)	Horizontal	101.52	-	-
	5180 (Av)		88.45	-	-
	5150 (Pk)		56.46	74.00	-17.54
	5150 (Av)		40.36	54.00	-13.64
	10360 (Pk)		52.62	68.23	-15.61
	10360 (Av)		39.91	54.00	-14.09
	15540 (Pk)		53.88	68.23	-14.35
	15540 (Av)		41.96	54.00	-12.04
5240	5240 (Pk)	Vertical	103.70	-	-
	5240 (Av)		91.36	-	-
	5350 (Pk)		42.06	74.00	-31.94
	5350 (Av)		29.89	54.00	-24.11
	10480 (Pk)		52.82	68.23	-15.41
	10480 (Av)		40.39	54.00	-13.61
	15720 (Pk)		53.37	68.23	-14.86
	15720 (Av)		41.49	54.00	-12.51
	5240 (Pk)	Horizontal	99.52	-	-
	5240 (Av)		87.09	-	-
	5350 (Pk)		43.09	74.00	-30.91
	5350 (Av)		29.85	54.00	-24.15
	10480 (Pk)		52.43	68.23	-15.80
	10480 (Av)		40.41	54.00	-13.59
	15720 (Pk)		53.01	68.23	-15.22
	15720 (Av)		41.52	54.00	-12.48
5745	5745 (Pk)	Vertical	100.83	-	-
	5745 (Av)		88.41	-	-
	5715(Pk)		56.23	78.20	-21.97
	5725(Pk)		45.90	78.20	-32.30
	11490 (Pk)		55.72	68.23	-12.51
	11490 (Av)		42.97	54.00	-11.03
	17235 (Pk)		58.53	68.23	-9.70
	17235 (Av)		45.68	54.00	-8.32
	5745 (Pk)	Horizontal	96.51	-	-
	5745 (Av)		83.81	-	-
	5715(Pk)		44.03	78.20	-34.17
	5725(Pk)		53.56	78.20	-24.64
	11490 (Pk)		54.74	68.23	-13.49
	11490 (Av)		42.87	54.00	-11.13
	17235 (Pk)		58.32	68.23	-9.91
	17235 (Av)		45.73	54.00	-8.27

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

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Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5825	5825 (Pk)	Vertical	102.70	-	-
	5825 (Av)		90.06	-	-
	5850 (Pk)		59.83	78.20	-18.37
	5860 (Pk)		48.60	78.20	-29.60
	11650 (Pk)		54.85	68.23	-13.38
	11650 (Av)		42.76	54.00	-11.24
	17475 (Pk)		60.02	68.23	-8.21
	17475 (Av)		47.42	54.00	-6.58
	5825 (Pk)	Horizontal	98.74	-	-
	5825 (Av)		85.82	-	-
	5850 (Pk)		56.03	78.20	-22.17
	5860 (Pk)		45.24	78.20	-32.96
	11650 (Pk)		54.76	68.23	-13.47
	11650 (Av)		42.19	54.00	-11.81
	17475 (Pk)		59.31	68.23	-8.92
	17475 (Pk)		47.43	54.00	-6.57

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

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Modulation: 802.11ax_HE 20MHz
Data rate: MCS11

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5180	5180 (Pk)	Vertical	100.15	-	-
	5180 (Av)		88.08	-	-
	5150 (Pk)		53.74	74.00	-20.26
	5150 (Av)		35.28	54.00	-18.72
	10360 (Pk)		52.03	68.23	-16.20
	10360 (Av)		39.93	54.00	-14.07
	15540 (Pk)		54.98	68.23	-13.25
	15540 (Av)		41.99	54.00	-12.01
	5180 (Pk)	Horizontal	97.26	-	-
	5180 (Av)		84.39	-	-
	5150 (Pk)		50.81	74.00	-23.19
	5150 (Av)		32.01	54.00	-21.99
	10360 (Pk)		52.58	68.23	-15.65
	10360 (Av)		39.93	54.00	-14.07
	15540 (Pk)		54.55	68.23	-13.68
	15540 (Av)		41.98	54.00	-12.02
5240	5240 (Pk)	Vertical	99.05	-	-
	5240 (Av)		86.85	-	-
	5350 (Pk)		42.67	74.00	-31.33
	5350 (Av)		29.89	54.00	-24.11
	10480 (Pk)		53.13	68.23	-15.10
	10480 (Av)		40.38	54.00	-13.62
	15720 (Pk)		53.95	68.23	-14.28
	15720 (Av)		41.52	54.00	-12.48
	5240 (Pk)	Horizontal	95.20	-	-
	5240 (Av)		82.25	-	-
	5350 (Pk)		41.58	74.00	-32.42
	5350 (Av)		29.49	54.00	-24.51
	10480 (Pk)		52.71	68.23	-15.52
	10480 (Av)		40.39	54.00	-13.61
	15720 (Pk)		53.59	68.23	-14.64
	15720 (Av)		41.50	54.00	-12.50
5745	5745 (Pk)	Vertical	97.15	-	-
	5745 (Av)		84.57	-	-
	5715(Pk)		44.88	78.20	-33.32
	5725(Pk)		52.52	78.20	-25.68
	11490 (Pk)		54.90	68.23	-13.33
	11490 (Av)		42.89	54.00	-11.11
	17235 (Pk)		57.92	68.23	-10.31
	17235 (Av)		45.79	54.00	-8.21
	5745 (Pk)	Horizontal	92.42	-	-
	5745 (Av)		80.24	-	-
	5715(Pk)		42.96	78.20	-35.24
	5725(Pk)		46.76	78.20	-31.44
	11490 (Pk)		55.62	68.23	-12.61
	11490 (Av)		42.90	54.00	-11.10
	17235 (Pk)		59.15	68.23	-9.08
	17235 (Av)		45.77	54.00	-8.23

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

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Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5825	5825 (Pk)	Vertical	98.34	-	-
	5825 (Av)		86.14	-	-
	5850 (Pk)		56.29	78.20	-21.91
	5860 (Pk)		46.61	78.20	-31.59
	11650 (Pk)		54.54	68.23	-13.69
	11650 (Av)		42.34	54.00	-11.66
	17475 (Pk)		59.19	68.23	-9.04
	17475 (Av)		47.42	54.00	-6.58
	5825 (Pk)	Horizontal	94.24	-	-
	5825 (Av)		81.92	-	-
	5850 (Pk)		51.85	78.20	-26.35
	5860 (Pk)		43.21	78.20	-34.99
	11650 (Pk)		54.46	68.23	-13.77
	11650 (Av)		42.17	54.00	-11.83
	17475 (Pk)		59.44	68.23	-8.79
	17475 (Pk)		47.43	54.00	-6.57

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

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Modulation: 802.11n_HT 40MHz

Data rate: MCS0

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5190	5190 (Pk)	Vertical	100.66	-	-
	5190 (Av)		88.95	-	-
	5150 (Pk)		62.97	74.00	-11.03
	5150 (Av)		47.90	54.00	-6.10
	10380 (Pk)		51.37	68.23	-16.86
	10380 (Av)		39.37	54.00	-14.63
	15570 (Pk)		52.28	68.23	-15.95
	15570 (Av)		40.34	54.00	-13.66
	5190 (Pk)	Horizontal	100.65	-	-
	5190 (Av)		89.43	-	-
	5150 (Pk)		63.16	74.00	-10.84
	5150 (Av)		48.17	54.00	-5.83
	10380 (Pk)		51.40	68.23	-16.83
	10380 (Av)		39.40	54.00	-14.60
	15570 (Pk)		52.90	68.23	-15.33
	15570 (Av)		40.31	54.00	-13.69
5230	5230 (Pk)	Vertical	103.99	-	-
	5230 (Av)		93.82	-	-
	5350 (Pk)		43.65	74.00	-30.35
	5350 (Av)		31.72	54.00	-22.28
	10460 (Pk)		52.15	68.23	-16.08
	10460 (Av)		39.61	54.00	-14.39
	15690 (Pk)		53.32	68.23	-14.91
	15690 (Av)		41.14	54.00	-12.86
	5230 (Pk)	Horizontal	102.53	-	-
	5230 (Av)		90.69	-	-
	5350 (Pk)		42.41	74.00	-31.59
	5350 (Av)		30.28	54.00	-23.72
	10460 (Pk)		52.80	68.23	-15.43
	10460 (Av)		39.63	54.00	-14.37
	15690 (Pk)		52.91	68.23	-15.32
	15690 (Av)		40.47	54.00	-13.53
5755	5755 (Pk)	Vertical	103.35	-	-
	5755 (Av)		92.07	-	-
	5725(Pk)		73.88	122.20	-48.32
	5720(Pk)		72.88	110.80	-37.92
	5700(Pk)		62.07	105.20	-43.13
	5650(Pk)		45.38	68.20	-22.82
	11510 (Pk)		55.93	68.23	-12.30
	11510 (Av)		42.83	54.00	-11.17
	17265 (Pk)		57.06	68.23	-11.17
	17265 (Av)		44.35	54.00	-9.65
	5755 (Pk)	Horizontal	98.70	-	-
	5755 (Av)		87.22	-	-
	5725(Pk)		68.07	122.20	-54.13
	5720(Pk)		68.89	110.80	-41.91
	5700(Pk)		58.42	105.20	-46.78
	5650(Pk)		42.39	68.20	-25.81
	11510 (Pk)		54.17	68.23	-14.06
	11510 (Av)		42.36	54.00	-11.64
	17265 (Pk)		56.34	68.23	-11.89
	17265 (Av)		44.41	54.00	-9.59

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

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Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5795	5795 (Pk)	Vertical	103.24	-	-
	5795 (Av)		93.17	-	-
	5850 (Pk)		62.64	122.20	-59.56
	5855(Pk)		61.56	110.80	-49.24
	5875(Pk)		56.22	105.20	-48.98
	5925 (Pk)		45.88	68.20	-22.32
	11590 (Pk)		57.95	68.23	-10.28
	11590 (Av)		43.23	54.00	-10.77
	17385 (Pk)		57.56	68.23	-10.67
	17385 (Pk)		45.09	54.00	-8.91
	5795 (Pk)	Horizontal	98.58	-	-
	5795 (Av)		87.18	-	-
	5850 (Pk)		55.86	122.20	-66.34
	5855(Pk)		54.67	110.80	-56.13
	5875(Pk)		49.69	105.20	-55.51
	5925 (Pk)		43.33	68.20	-24.87
	11590 (Pk)		54.10	68.23	-14.13
	11590 (Av)		41.65	54.00	-12.35
	17385 (Pk)		57.17	68.23	-11.06
	17385 (Pk)		45.06	54.00	-8.94

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

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Modulation: 802.11n _ HT 40MHz

Data rate: MCS7

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5190	5190 (Pk)	Vertical	101.69	-	-
	5190 (Av)		91.49	-	-
	5150 (Pk)		72.42	74.00	-1.58
	5150 (Av)		51.74	54.00	-2.26
	10380 (Pk)		51.08	68.23	-17.15
	10380 (Av)		39.37	54.00	-14.63
	15570 (Pk)		52.77	68.23	-15.46
	15570 (Av)		40.33	54.00	-13.67
	5190 (Pk)	Horizontal	101.29	-	-
	5190 (Av)		88.69	-	-
	5150 (Pk)		68.84	74.00	-5.16
	5150 (Av)		49.03	54.00	-4.97
	10380 (Pk)		51.22	68.23	-17.01
	10380 (Av)		39.35	54.00	-14.65
	15570 (Pk)		52.81	68.23	-15.42
	15570 (Av)		40.42	54.00	-13.58
5230	5230 (Pk)	Vertical	103.75	-	-
	5230 (Av)		92.39	-	-
	5350 (Pk)		44.42	74.00	-29.58
	5350 (Av)		31.56	54.00	-22.44
	10460 (Pk)		52.24	68.23	-15.99
	10460 (Av)		39.67	54.00	-14.33
	15690 (Pk)		52.77	68.23	-15.46
	15690 (Av)		40.43	54.00	-13.57
	5230 (Pk)	Horizontal	102.91	-	-
	5230 (Av)		91.64	-	-
	5150 (Pk)		43.54	74.00	-30.46
	5150 (Av)		30.17	54.00	-23.83
	10460 (Pk)		51.55	68.23	-16.68
	10460 (Av)		39.69	54.00	-14.31
	15690 (Pk)		52.94	68.23	-15.29
	15690 (Av)		40.41	54.00	-13.59
5755	5755 (Pk)	Vertical	102.32	-	-
	5755 (Av)		91.18	-	-
	5725(Pk)		72.29	122.20	-49.91
	5720(Pk)		76.13	110.80	-34.67
	5700(Pk)		60.26	105.20	-44.94
	5650(Pk)		44.62	68.20	-23.58
	11510 (Pk)		56.78	68.23	-11.45
	11510 (Av)		43.79	54.00	-10.21
	17265 (Pk)		56.57	68.23	-11.66
	17265 (Av)		44.40	54.00	-9.60
	5755 (Pk)	Horizontal	96.12	-	-
	5755 (Av)		85.25	-	-
	5725(Pk)		66.57	122.20	-55.63
	5720(Pk)		70.09	110.80	-40.71
	5700(Pk)		53.56	105.20	-51.64
	5650(Pk)		42.57	68.20	-25.63
	11510 (Pk)		54.41	68.23	-13.82
	11510 (Av)		42.29	54.00	-11.71
	17265 (Pk)		56.92	68.23	-11.31
	17265 (Av)		44.41	54.00	-9.59

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

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Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5795	5795 (Pk)	Vertical	103.64	-	-
	5795 (Av)		92.29	-	-
	5850 (Pk)		60.87	122.20	-61.33
	5855(Pk)		61.35	110.80	-49.45
	5875(Pk)		55.86	105.20	-49.34
	5925 (Pk)		44.69	68.20	-23.51
	11590 (Pk)		54.62	68.23	-13.61
	11590 (Av)		42.24	54.00	-11.76
	17385 (Pk)		56.98	68.23	-11.25
	17385 (Pk)		45.04	54.00	-8.96
	5795 (Pk)	Horizontal	97.34	-	-
	5795 (Av)		86.19	-	-
	5850 (Pk)		55.25	122.20	-66.95
	5855(Pk)		55.46	110.80	-55.34
	5875(Pk)		50.95	105.20	-54.25
	5925 (Pk)		43.11	68.20	-25.09
	11590 (Pk)		54.57	68.23	-13.66
	11590 (Av)		41.62	54.00	-12.38
	17385 (Pk)		56.87	68.23	-11.36
	17385 (Pk)		45.09	54.00	-8.91

Note:

* :- Indicate restricted band frequency in 15.205
Pk: Peak Detector; Av: Average Detector

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Modulation: 802.11ac_VHT 40MHz

Data rate: MCS0

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5190	5190 (Pk)	Vertical	102.81	-	-
	5190 (Av)		92.63	-	-
	5150 (Pk)		65.00	74	-9.00
	5150 (Av)		50.02	54	-3.98
	10380 (Pk)		51.14	68.23	-17.09
	10380 (Av)		39.44	54	-14.56
	15570 (Pk)		53.14	68.23	-15.09
	15570 (Av)		40.88	54	-13.12
	5190 (Pk)	Horizontal	101.38	-	-
	5190 (Av)		92.50	-	-
	5150 (Pk)		63.36	74	-10.64
	5150 (Av)		49.51	54	-4.49
	10380 (Pk)		51.88	68.23	-16.35
	10380 (Av)		39.38	54	-14.62
	15570 (Pk)		52.37	68.23	-15.86
	15570 (Av)		40.93	54	-13.07
5230	5230 (Pk)	Vertical	104.53	-	-
	5230 (Av)		93.67	-	-
	5350 (Pk)		44.60	74	-29.40
	5350 (Av)		31.53	54	-22.47
	10460 (Pk)		52.83	68.23	-15.40
	10460 (Av)		39.75	54	-14.25
	15690 (Pk)		52.98	68.23	-15.25
	15690 (Av)		40.95	54	-13.05
	5230 (Pk)	Horizontal	104.56	-	-
	5230 (Av)		94.30	-	-
	5350 (Pk)		43.13	74	-30.87
	5350 (Av)		31.18	54	-22.82
	10460 (Pk)		52.35	68.23	-15.88
	10460 (Av)		39.75	54	-14.25
	15690 (Pk)		52.62	68.23	-15.61
	15690 (Av)		40.94	54	-13.06
5755	5755 (Pk)	Vertical	103.46	-	-
	5755 (Av)		93.01	-	-
	5725(Pk)		75.25	122.2	-46.95
	5720(Pk)		72.94	110.8	-37.86
	5700(Pk)		60.55	105.2	-44.65
	5650(Pk)		44.11	68.2	-24.09
	11510 (Pk)		54.42	68.23	-13.81
	11510 (Av)		42.49	54	-11.51
	17265 (Pk)		57.01	68.23	-11.22
	17265 (Av)		45.14	54	-8.86
	5755 (Pk)	Horizontal	96.00	-	-
	5755 (Av)		85.77	-	-
	5725(Pk)		67.58	122.2	-54.62
	5720(Pk)		64.23	110.8	-46.57
	5700(Pk)		53.65	105.2	-51.55
	5650(Pk)		42.60	68.2	-25.60
	11510 (Pk)		53.85	68.23	-14.38
	11510 (Av)		42.04	54	-11.96
	17265 (Pk)		57.41	68.23	-10.82
	17265 (Av)		45.14	54	-8.86

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

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Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5795	5795 (Pk)	Vertical	103.93	-	-
	5795 (Av)		93.93	-	-
	5850 (Pk)		61.44	122.2	-60.76
	5855(Pk)		60.47	110.8	-50.33
	5875(Pk)		55.31	105.2	-49.89
	5925 (Pk)		45.25	68.2	-22.95
	11590 (Pk)		55.29	68.23	-12.94
	11590 (Av)		42.41	54	-11.59
	17385 (Pk)		57.98	68.23	-10.25
	17385 (Pk)		45.80	54	-8.20
	5795 (Pk)	Horizontal	97.68	-	-
	5795 (Av)		87.80	-	-
	5850 (Pk)		56.11	122.2	-66.09
	5855(Pk)		55.10	110.8	-55.70
	5875(Pk)		51.05	105.2	-54.15
	5925 (Pk)		43.31	68.2	-24.89
	11590 (Pk)		52.96	68.23	-15.27
	11590 (Av)		41.19	54	-12.81
	17385 (Pk)		57.73	68.23	-10.50
	17385 (Pk)		45.78	54	-8.22

sNote:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

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Modulation: 802.11ac_VHT 40MHz

Data rate: MCS9

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5190	5190 (Pk)	Vertical	102.63	-	-
	5190 (Av)		91.76	-	-
	5150 (Pk)		69.61	74.00	-4.39
	5150 (Av)		49.97	54.00	-4.03
	10380 (Pk)		51.51	68.23	-16.72
	10380 (Av)		39.45	54.00	-14.55
	15570 (Pk)		53.69	68.23	-14.54
	15570 (Av)		41.05	54.00	-12.95
	5190 (Pk)	Horizontal	101.99	-	-
	5190 (Av)		91.94	-	-
	5150 (Pk)		68.44	74.00	-5.56
	5150 (Av)		49.29	54.00	-4.71
	10380 (Pk)		51.65	68.23	-16.58
	10380 (Av)		39.43	54.00	-14.57
	15570 (Pk)		53.21	68.23	-15.02
	15570 (Av)		41.04	54.00	-12.96
5230	5230 (Pk)	Vertical	101.08	-	-
	5230 (Av)		90.60	-	-
	5350 (Pk)		42.48	74.00	-31.52
	5350 (Av)		29.62	54.00	-24.38
	10460 (Pk)		51.73	68.23	-16.50
	10460 (Av)		39.77	54.00	-14.23
	15690 (Pk)		54.20	68.23	-14.03
	15690 (Av)		41.77	54.00	-12.23
	5230 (Pk)	Horizontal	100.16	-	-
	5230 (Av)		89.80	-	-
	5350 (Pk)		41.24	74.00	-32.76
	5350 (Av)		29.51	54.00	-24.49
	10460 (Pk)		52.13	68.23	-16.10
	10460 (Av)		39.83	54.00	-14.17
	15690 (Pk)		53.99	68.23	-14.24
	15690 (Av)		41.10	54.00	-12.90
5755	5755 (Pk)	Vertical	99.92	-	-
	5755 (Av)		90.34	-	-
	5725(Pk)		69.55	122.20	-52.65
	5720(Pk)		64.37	110.80	-46.43
	5700(Pk)		56.82	105.20	-48.38
	5650(Pk)		41.57	68.20	-26.63
	11510 (Pk)		54.62	68.23	-13.61
	11510 (Av)		41.99	54.00	-12.01
	17265 (Pk)		56.94	68.23	-11.29
	17265 (Av)		45.10	54.00	-8.90
	5755 (Pk)	Horizontal	93.15	-	-
	5755 (Av)		83.71	-	-
	5725(Pk)		63.04	122.20	-59.16
	5720(Pk)		58.09	110.80	-52.71
	5700(Pk)		49.86	105.20	-55.34
	5650(Pk)		42.58	68.20	-25.62
	11510 (Pk)		54.95	68.23	-13.28
	11510 (Av)		42.00	54.00	-12.00
	17265 (Pk)		56.90	68.23	-11.33
	17265 (Av)		45.16	54.00	-8.84

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

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Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5795	5795 (Pk)	Vertical	101.00	-	-
	5795 (Av)		91.35	-	-
	5850 (Pk)		58.63	122.20	-63.57
	5855(Pk)		55.91	110.80	-54.89
	5875(Pk)		49.72	105.20	-55.48
	5925 (Pk)		43.84	68.20	-24.36
	11590 (Pk)		53.82	68.23	-14.41
	11590 (Av)		41.88	54.00	-12.12
	17385 (Pk)		57.62	68.23	-10.61
	17385 (Pk)		45.84	54.00	-8.16
	5795 (Pk)	Horizontal	92.98	-	-
	5795 (Av)		84.43	-	-
	5850 (Pk)		51.97	122.20	-70.23
	5855(Pk)		49.95	110.80	-60.85
	5875(Pk)		46.75	105.20	-58.45
	5925 (Pk)		42.63	68.20	-25.57
	11590 (Pk)		53.39	68.23	-14.84
	11590 (Av)		41.07	54.00	-12.93
	17385 (Pk)		57.94	68.23	-10.29
	17385 (Pk)		45.81	54.00	-8.19

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

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Modulation: 802.11ax _ HE 40MHz

Data rate: MCS0

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5190	5190 (Pk)	Vertical	103.92	-	-
	5190 (Av)		90.88	-	-
	5150 (Pk)		65.94	74.00	-8.06
	5150 (Av)		50.05	54.00	-3.95
	10380 (Pk)		51.48	68.23	-16.75
	10380 (Av)		39.43	54.00	-14.57
	15570 (Pk)		53.25	68.23	-14.98
	15570 (Av)		41.07	54.00	-12.93
	5190 (Pk)	Horizontal	103.42	-	-
	5190 (Av)		91.36	-	-
	5150 (Pk)		65.57	74.00	-8.43
	5150 (Av)		49.48	54.00	-4.52
	10380 (Pk)		50.96	68.23	-17.27
	10380 (Av)		39.44	54.00	-14.56
	15570 (Pk)		53.55	68.23	-14.68
	15570 (Av)		41.04	54.00	-12.96
5230	5230 (Pk)	Vertical	104.03	-	-
	5230 (Av)		91.50	-	-
	5350 (Pk)		42.69	74.00	-31.31
	5350 (Av)		30.27	54.00	-23.73
	10460 (Pk)		51.95	68.23	-16.28
	10460 (Av)		39.83	54.00	-14.17
	15690 (Pk)		52.91	68.23	-15.32
	15690 (Av)		41.19	54.00	-12.81
	5230 (Pk)	Horizontal	103.60	-	-
	5230 (Av)		91.40	-	-
	5350 (Pk)		42.27	74.00	-31.73
	5350 (Av)		29.62	54.00	-24.38
	10460 (Pk)		51.62	68.23	-16.61
	10460 (Av)		39.82	54.00	-14.18
	15690 (Pk)		53.28	68.23	-14.95
	15690 (Av)		41.13	54.00	-12.87
5755	5755 (Pk)	Vertical	104.99	-	-
	5755 (Av)		91.80	-	-
	5725(Pk)		73.22	122.20	-48.98
	5720(Pk)		75.04	110.80	-35.76
	5700(Pk)		63.43	105.20	-41.77
	5650(Pk)		44.86	68.20	-23.34
	11510 (Pk)		54.20	68.23	-14.03
	11510 (Av)		42.23	54.00	-11.77
	17265 (Pk)	Horizontal	56.94	68.23	-11.29
	17265 (Av)		45.25	54.00	-8.75
	5755 (Pk)		98.25	-	-
	5755 (Av)		85.27	-	-
	5725(Pk)		67.41	122.20	-54.79
	5720(Pk)		67.97	110.80	-42.83
	5700(Pk)		56.50	105.20	-48.70
	5650(Pk)		42.54	68.20	-25.66
	11510 (Pk)		54.79	68.23	-13.44
	11510 (Av)		42.03	54.00	-11.97
	17265 (Pk)		57.33	68.23	-10.90
	17265 (Av)		45.27	54.00	-8.73

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

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Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5795	5795 (Pk)	Vertical	105.25	-	-
	5795 (Av)		93.13	-	-
	5850 (Pk)		64.85	122.20	-57.35
	5855(Pk)		63.42	110.80	-47.38
	5875(Pk)		57.58	105.20	-47.62
	5925 (Pk)		45.30	68.20	-22.90
	11590 (Pk)		54.82	68.23	-13.41
	11590 (Av)		42.50	54.00	-11.50
	17385 (Pk)		57.85	68.23	-10.38
	17385 (Pk)		45.81	54.00	-8.19
	5795 (Pk)	Horizontal	97.97	-	-
	5795 (Av)		85.22	-	-
	5850 (Pk)		55.92	122.20	-66.28
	5855(Pk)		53.86	110.80	-56.94
	5875(Pk)		50.63	105.20	-54.57
	5925 (Pk)		42.25	68.20	-25.95
	11590 (Pk)		52.80	68.23	-15.43
	11590 (Av)		41.21	54.00	-12.79
	17385 (Pk)		57.79	68.23	-10.44
	17385 (Pk)		45.82	54.00	-8.18

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

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Modulation: 802.11ax _ HE 40MHz

Data rate: MCS11

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5190	5190 (Pk)	Vertical	101.19	-	-
	5190 (Av)		88.97	-	-
	5150 (Pk)		62.37	74.00	-11.63
	5150 (Av)		40.04	54.00	-13.96
	10380 (Pk)		51.41	68.23	-16.82
	10380 (Av)		39.45	54.00	-14.55
	15570 (Pk)		53.47	68.23	-14.76
	15570 (Av)		41.11	54.00	-12.89
	5190 (Pk)	Horizontal	99.15	-	-
	5190 (Av)		86.81	-	-
	5150 (Pk)		64.53	74.00	-9.47
	5150 (Av)		40.27	54.00	-13.73
	10380 (Pk)		52.08	68.23	-16.15
	10380 (Av)		39.46	54.00	-14.54
	15570 (Pk)		53.12	68.23	-15.11
	15570 (Av)		41.06	54.00	-12.94
5230	5230 (Pk)	Vertical	99.88	-	-
	5230 (Av)		88.00	-	-
	5350 (Pk)		42.21	74.00	-31.79
	5350 (Av)		29.51	54.00	-24.49
	10460 (Pk)		52.08	68.23	-16.15
	10460 (Av)		39.83	54.00	-14.17
	15690 (Pk)		53.69	68.23	-14.54
	15690 (Av)		41.14	54.00	-12.86
	5230 (Pk)	Horizontal	99.61	-	-
	5230 (Av)		87.09	-	-
	5350 (Pk)		42.52	74.00	-31.48
	5350 (Av)		28.93	54.00	-25.07
	10460 (Pk)		51.46	68.23	-16.77
	10460 (Av)		39.79	54.00	-14.21
	15690 (Pk)		53.68	68.23	-14.55
	15690 (Av)		41.06	54.00	-12.94
5755	5755 (Pk)	Vertical	98.53	-	-
	5755 (Av)		86.57	-	-
	5725(Pk)		64.41	122.20	-57.79
	5720(Pk)		60.21	110.80	-50.59
	5700(Pk)		51.43	105.20	-53.77
	5650(Pk)		41.46	68.20	-26.74
	11510 (Pk)		53.91	68.23	-14.32
	11510 (Av)		41.99	54.00	-12.01
	17265 (Pk)		58.17	68.23	-10.06
	17265 (Av)		45.20	54.00	-8.80
	5755 (Pk)	Horizontal	91.64	-	-
	5755 (Av)		79.63	-	-
	5725(Pk)		57.95	122.20	-64.25
	5720(Pk)		56.16	110.80	-54.64
	5700(Pk)		46.43	105.20	-58.77
	5650(Pk)		41.57	68.20	-26.63
	11510 (Pk)		53.81	68.23	-14.42
	11510 (Av)		42.09	54.00	-11.91
	17265 (Pk)		57.52	68.23	-10.71
	17265 (Av)		45.28	54.00	-8.72

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

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Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5795	5795 (Pk)	Vertical	101.17	-	-
	5795 (Av)		88.58	-	-
	5850 (Pk)		55.26	122.20	-66.94
	5855(Pk)		52.64	110.80	-58.16
	5875(Pk)		45.48	105.20	-59.72
	5925 (Pk)		42.55	68.20	-25.65
	11590 (Pk)		53.71	68.23	-14.52
	11590 (Av)		42.29	54.00	-11.71
	17385 (Pk)		57.40	68.23	-10.83
	17385 (Pk)		45.81	54.00	-8.19
	5795 (Pk)	Horizontal	93.96	-	-
	5795 (Av)		81.97	-	-
	5850 (Pk)		48.17	122.20	-74.03
	5855(Pk)		47.09	110.80	-63.71
	5875(Pk)		42.53	105.20	-62.67
	5925 (Pk)		42.21	68.20	-25.99
	11590 (Pk)		53.83	68.23	-14.40
	11590 (Av)		41.06	54.00	-12.94
	17385 (Pk)		58.01	68.23	-10.22
	17385 (Pk)		45.85	54.00	-8.15

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

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Modulation: 802.11ac _ VHT 80MHz
Data rate: MCS0

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5210	5210 (Pk)	Vertical	101.26	-	-
	5210 (Av)		91.31	-	-
	5150 (Pk)		67.52	74.00	-6.48
	5150 (Av)		49.68	54.00	-4.32
	10420 (Pk)		51.94	68.23	-16.29
	10420 (Av)		40.08	54.00	-13.92
	15630 (Pk)		53.26	68.23	-14.97
	15630 (Av)		41.41	54.00	-12.59
	5210 (Pk)	Horizontal	100.18	-	-
	5210 (Av)		88.96	-	-
	5150 (Pk)		62.77	74.00	-11.23
	5150 (Av)		48.37	54.00	-5.63
	10420 (Pk)		51.93	68.23	-16.30
	10420 (Av)		40.10	54.00	-13.90
	15630 (Pk)		53.44	68.23	-14.79
	15630 (Av)		41.37	54.00	-12.63
5775	5775 (Pk)	Vertical	101.45	-	-
	5775 (Pk)		90.27	-	-
	5850 (Pk)		73.27	122.20	-48.93
	5855 (Pk)		72.13	110.80	-38.67
	5875 (Pk)		64.32	105.20	-40.88
	5925 (Pk)		53.90	68.20	-14.30
	11550 (Pk)		54.43	68.23	-13.80
	11550 (Av)		42.59	54.00	-11.41
	17325 (Pk)		57.49	68.23	-10.74
	17325 (Av)		45.68	54.00	-8.32
	5775 (Pk)	Horizontal	95.56	-	-
	5775 (Pk)		84.66	-	-
	5850 (Pk)		66.77	122.20	-55.43
	5855 (Pk)		66.34	110.80	-44.46
	5875 (Pk)		57.31	105.20	-47.89
	5925 (Pk)		47.08	68.20	-21.12
	11550 (Av)		54.69	68.23	-13.54
	11550 (Pk)		42.54	54.00	-11.46
	17325 (Pk)		57.91	68.23	-10.32
	17325 (Av)		45.66	54.00	-8.34

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

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Modulation: 802.11ac _ VHT 80MHz
Data rate: MCS9

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5210	5210 (Pk)	Vertical	97.25	-	-
	5210 (Av)		86.55	-	-
	5150 (Pk)		63.90	74.00	-10.10
	5150 (Av)		43.45	54.00	-10.55
	10420 (Pk)		51.68	68.23	-16.55
	10420 (Av)		40.06	54.00	-13.94
	15630 (Pk)		53.52	68.23	-14.71
	15630 (Av)		41.50	54.00	-12.50
	5210 (Pk)	Horizontal	94.75	-	-
	5210 (Av)		83.32	-	-
	5150 (Pk)		59.02	74.00	-14.98
	5150 (Av)		39.82	54.00	-14.18
	10420 (Pk)		52.18	68.23	-16.05
	10420 (Av)		40.15	54.00	-13.85
	15630 (Pk)		54.43	68.23	-13.80
	15630 (Av)		41.59	54.00	-12.41
5775	5775 (Pk)	Vertical	98.47	-	-
	5775 (Pk)		87.39	-	-
	5850 (Pk)		61.59	122.20	-60.61
	5855 (Pk)		61.87	110.80	-48.93
	5875 (Pk)		55.31	105.20	-49.89
	5925 (Pk)		44.59	68.20	-23.61
	11550 (Pk)		55.01	68.23	-13.22
	11550 (Av)		42.56	54.00	-11.44
	17325 (Pk)		58.16	68.23	-10.07
	17325 (Av)		45.65	54.00	-8.35
	5775 (Pk)	Horizontal	90.61	-	-
	5775 (Pk)		78.85	-	-
	5850 (Pk)		53.97	122.20	-68.23
	5855 (Pk)		53.60	110.80	-57.20
	5875 (Pk)		49.49	105.20	-55.71
	5925 (Pk)		43.65	68.20	-24.55
	11550 (Av)		54.64	68.23	-13.59
	11550 (Pk)		42.49	54.00	-11.51
	17325 (Pk)		58.79	68.23	-9.44
	17325 (Av)		45.65	54.00	-8.35

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

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Modulation: 802.11ax_HE 80MHz

Data rate: MCS0

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5210	5210 (Pk)	Vertical	101.05	-	-
	5210 (Av)		89.70	-	-
	5150 (Pk)		67.68	74.00	-6.32
	5150 (Av)		51.06	54.00	-2.94
	10420 (Pk)		52.52	68.23	-15.71
	10420 (Av)		40.19	54.00	-13.81
	15630 (Pk)		53.99	68.23	-14.24
	15630 (Av)		41.50	54.00	-12.50
	5210 (Pk)	Horizontal	100.33	-	-
	5210 (Av)		89.01	-	-
	5150 (Pk)		65.23	74.00	-8.77
	5150 (Av)		50.29	54.00	-3.71
	10420 (Pk)		52.77	68.23	-15.46
	10420 (Av)		40.21	54.00	-13.79
	15630 (Pk)		53.96	68.23	-14.27
	15630 (Av)		41.57	54.00	-12.43
5775	5775 (Pk)	Vertical	102.51	-	-
	5775 (Pk)		89.63	-	-
	5850 (Pk)		73.31	122.20	-48.89
	5855 (Pk)		72.26	110.80	-38.54
	5875 (Pk)		66.16	105.20	-39.04
	5925 (Pk)		53.64	68.20	-14.56
	11550 (Pk)		54.62	68.23	-13.61
	11550 (Av)		42.61	54.00	-11.39
	17325 (Pk)		58.77	68.23	-9.46
	17325 (Av)		45.65	54.00	-8.35
	5775 (Pk)	Horizontal	96.65	-	-
	5775 (Pk)		84.01	-	-
	5850 (Pk)		66.64	122.20	-55.56
	5855 (Pk)		65.54	110.80	-45.26
	5875 (Pk)		59.67	105.20	-45.53
	5925 (Pk)		47.05	68.20	-21.15
	11550 (Av)		55.44	68.23	-12.79
	11550 (Pk)		42.63	54.00	-11.37
	17325 (Pk)		58.71	68.23	-9.52
	17325 (Av)		45.71	54.00	-8.29

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

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Modulation: 802.11ax_HE 80MHz

Data rate: MCS11

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Measured Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5210	5210 (Pk)	Vertical	98.03	-	-
	5210 (Av)		86.00	-	-
	5150 (Pk)		65.31	74.00	-8.69
	5150 (Av)		41.09	54.00	-12.91
	10420 (Pk)		52.45	68.23	-15.78
	10420 (Av)		40.15	54.00	-13.85
	15630 (Pk)		53.29	68.23	-14.94
	15630 (Av)		41.47	54.00	-12.53
	5210 (Pk)	Horizontal	95.54	-	-
	5210 (Av)		82.72	-	-
	5150 (Pk)		59.84	74.00	-14.16
	5150 (Av)		38.67	54.00	-15.33
	10420 (Pk)		52.43	68.23	-15.80
	10420 (Av)		40.19	54.00	-13.81
	15630 (Pk)		55.13	68.23	-13.10
	15630 (Av)		41.53	54.00	-12.47
5775	5775 (Pk)	Vertical	98.45	-	-
	5775 (Pk)		87.39	-	-
	5850 (Pk)		61.59	122.20	-60.61
	5855 (Pk)		61.87	110.80	-48.93
	5875 (Pk)		55.31	105.20	-49.89
	5925 (Pk)		44.59	68.20	-23.61
	11550 (Pk)		54.62	68.23	-13.61
	11550 (Av)		42.61	54.00	-11.39
	17325 (Pk)		58.77	68.23	-9.46
	17325 (Av)		45.65	54.00	-8.35
	5775 (Pk)	Horizontal	90.61	-	-
	5775 (Pk)		78.85	-	-
	5850 (Pk)		53.97	122.20	-68.23
	5855 (Pk)		53.60	110.80	-57.20
	5875 (Pk)		49.49	105.20	-55.71
	5925 (Pk)		43.65	68.20	-24.55
	11550 (Av)		55.44	68.23	-12.79
	11550 (Pk)		42.63	54.00	-11.37
	17325 (Pk)		58.71	68.23	-9.52
	17325 (Av)		45.71	54.00	-8.29

Note:

* :- Indicate restricted band frequency in 15.205

Pk: Peak Detector; Av: Average Detector

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Simultaneous operation:

Combination of Wi-Fi 5GHz and Bluetooth 2.4GHz:

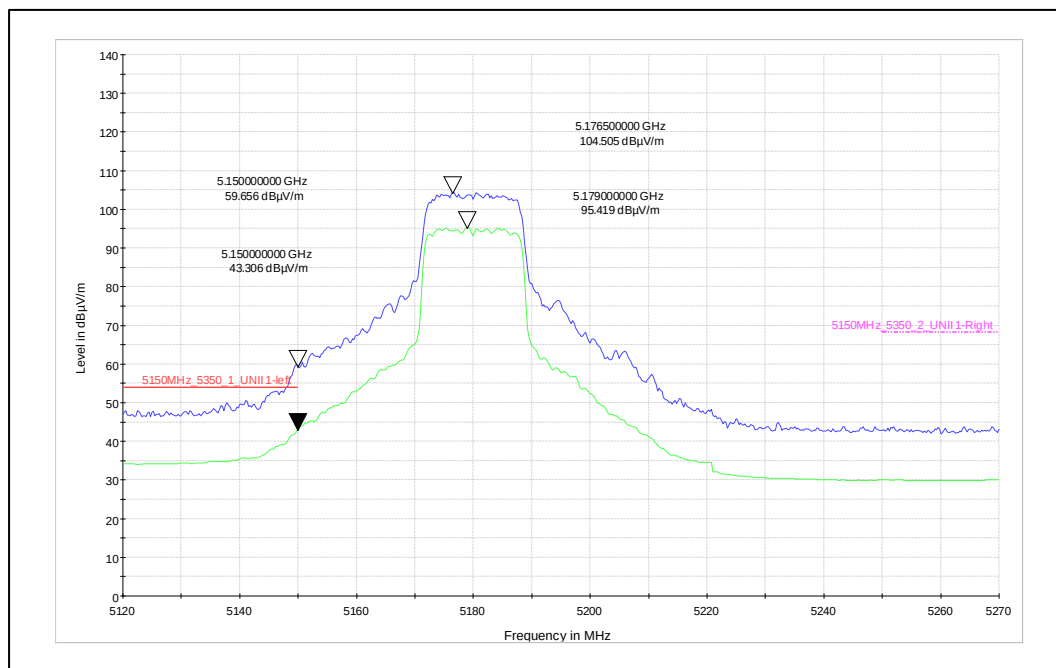
Data Rate (Mbps)	Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
1	2480	4960(Pk)	Vertical	37.82	68.23	-30.41
		4960(Av)		25.73	54.00	-28.27
		7440(Pk)		49.51	68.23	-18.72
		7440(Av)		36.67	54.00	-17.33
6	5180	10360(Pk)		50.97	68.23	-17.26
		10360(Av)		38.73	54.00	-15.27
		15540(Pk)		52.82	68.23	-15.41
		15540(Av)		40.74	54.00	-13.26
1	2480	4960(Pk)	Horizontal	38.04	68.23	-30.19
		4960(Av)		25.77	54.00	-28.23
		7440(Pk)		47.29	68.23	-20.94
		7440(Av)		34.31	54.00	-19.69
6	5180	10360(Pk)		51.63	68.23	-16.60
		10360(Av)		38.78	54.00	-15.22
		15540(Pk)		53.08	68.23	-15.15
		15540(Av)		40.89	54.00	-13.11

Worst Cases Plots

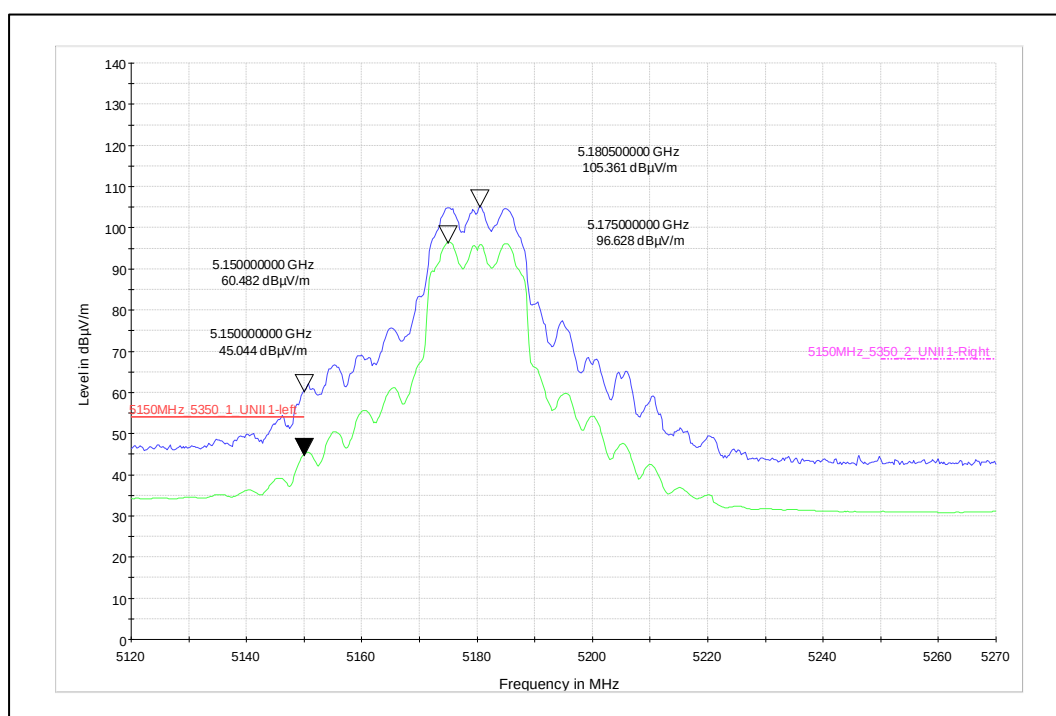
Modulation: 802.11a

Data Rate : 6Mbps

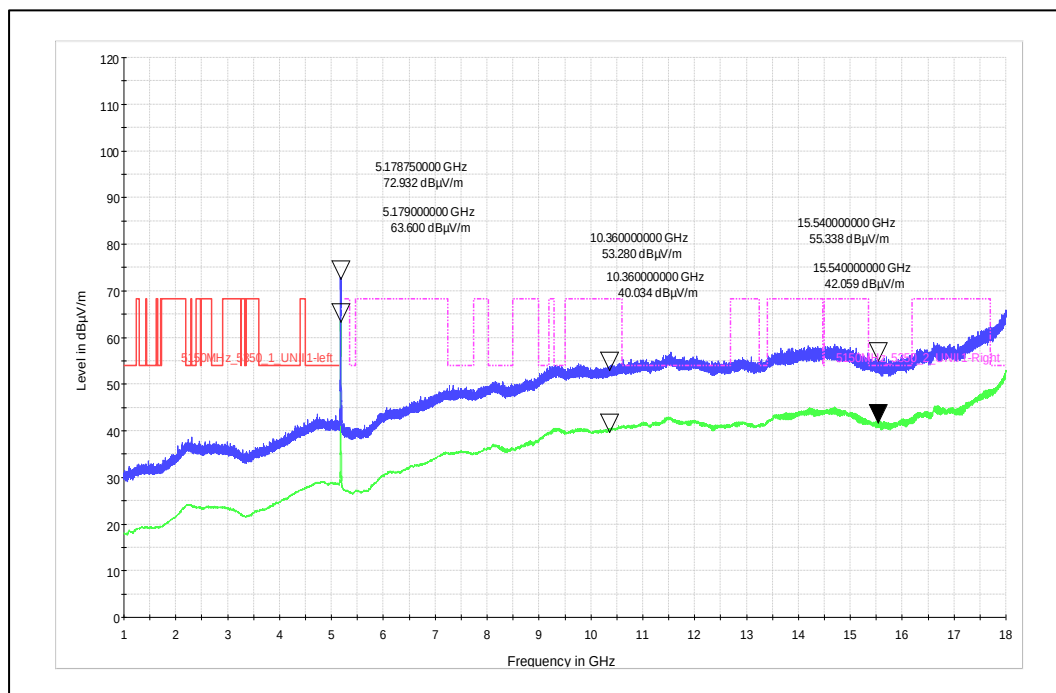
Channel Frequency: 5180MHz_Vertical Polarization



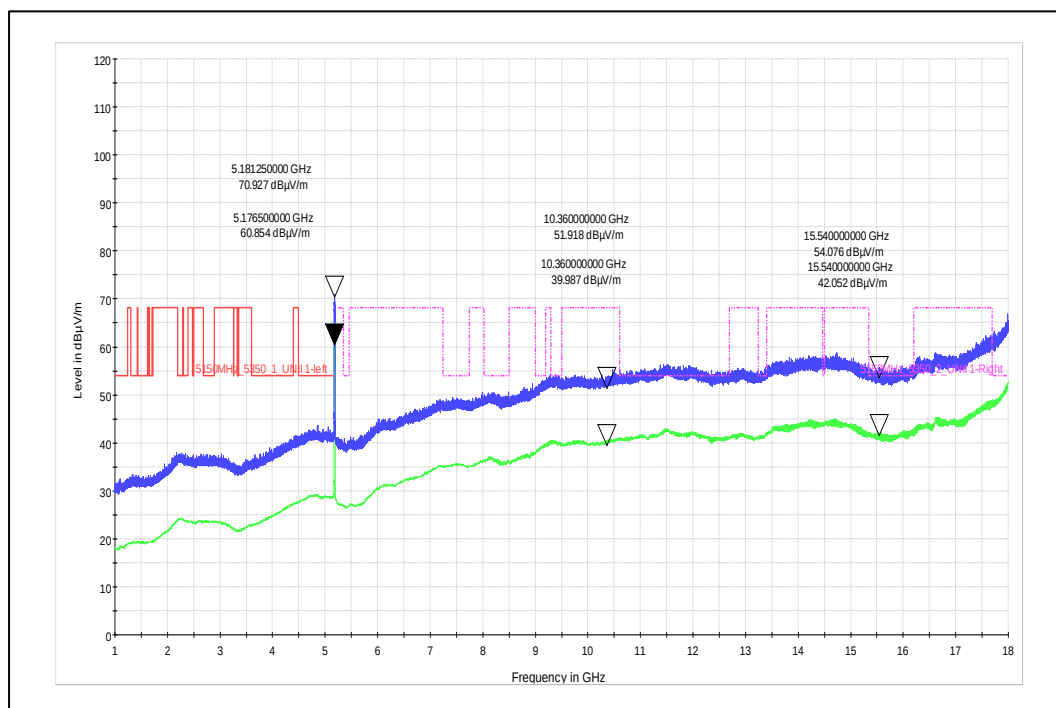
Channel Frequency: 5180MHz_Horizontal Polarization



Channel Frequency_5180MHz_Vertical Polarization



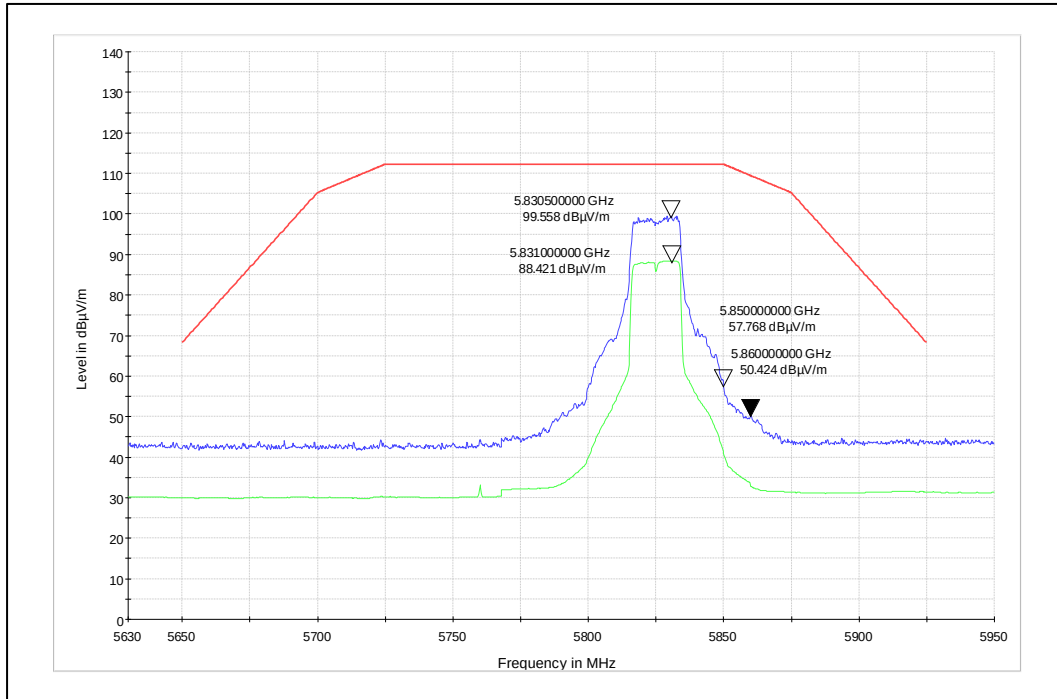
Channel Frequency_5180MHz_Horizontal Polarization



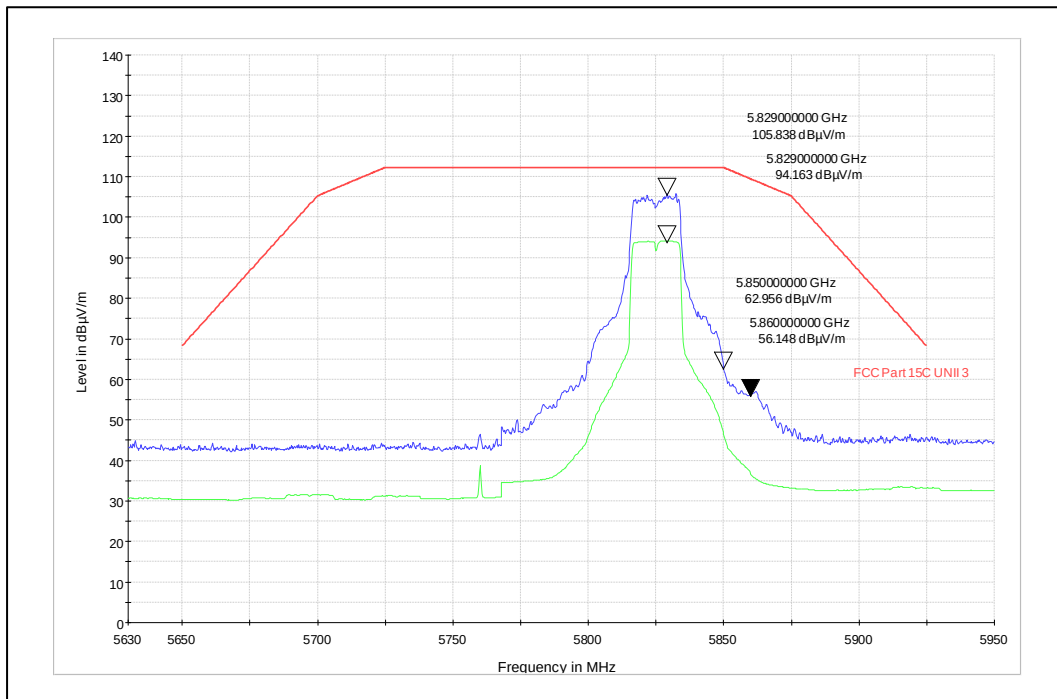
Modulation: 802.11n_HT 20

Data Rate : MCS7

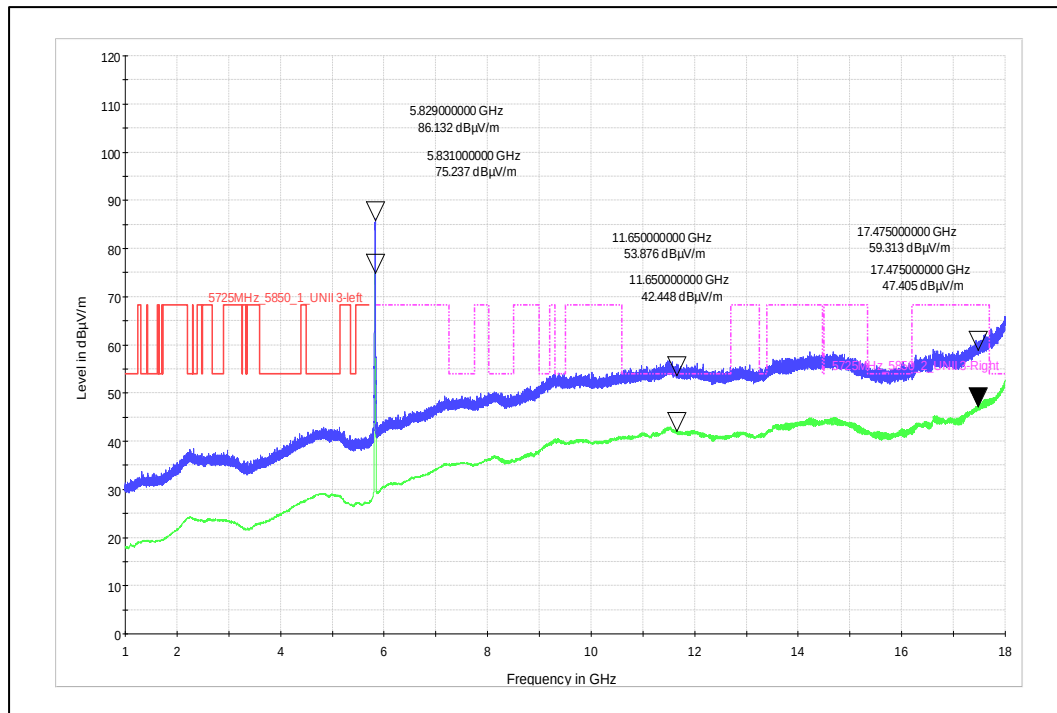
Channel Frequency_5825MHz_Vertical Polarization



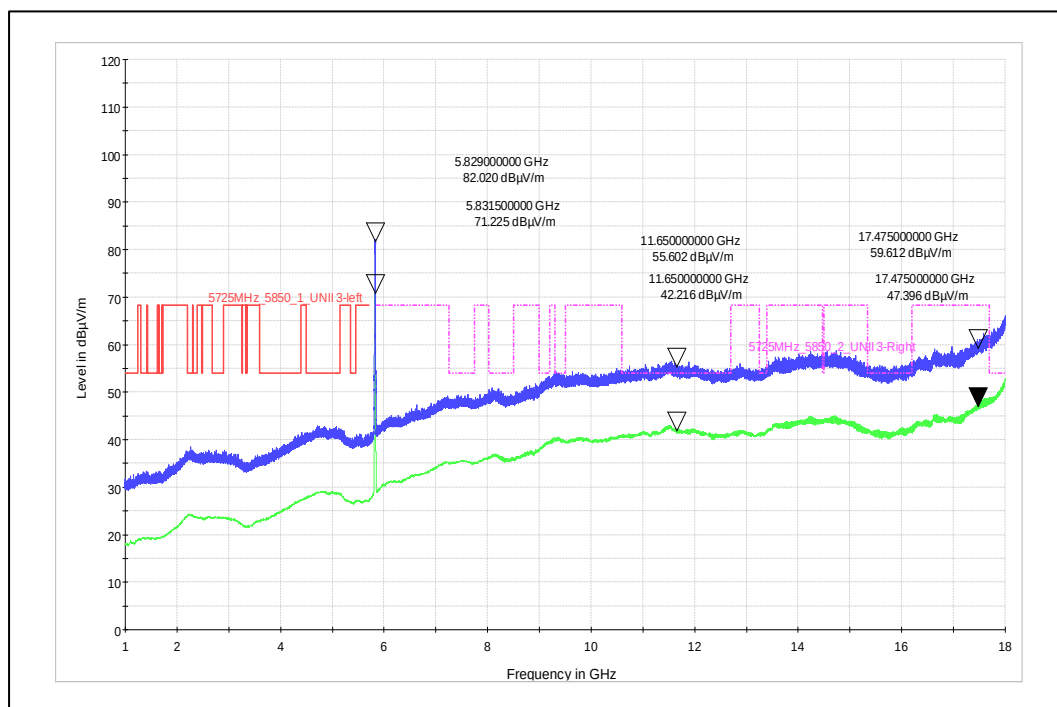
Channel Frequency_5825MHz_Horizontal Polarization



Channel Frequency_5825MHz_Vertical Polarization



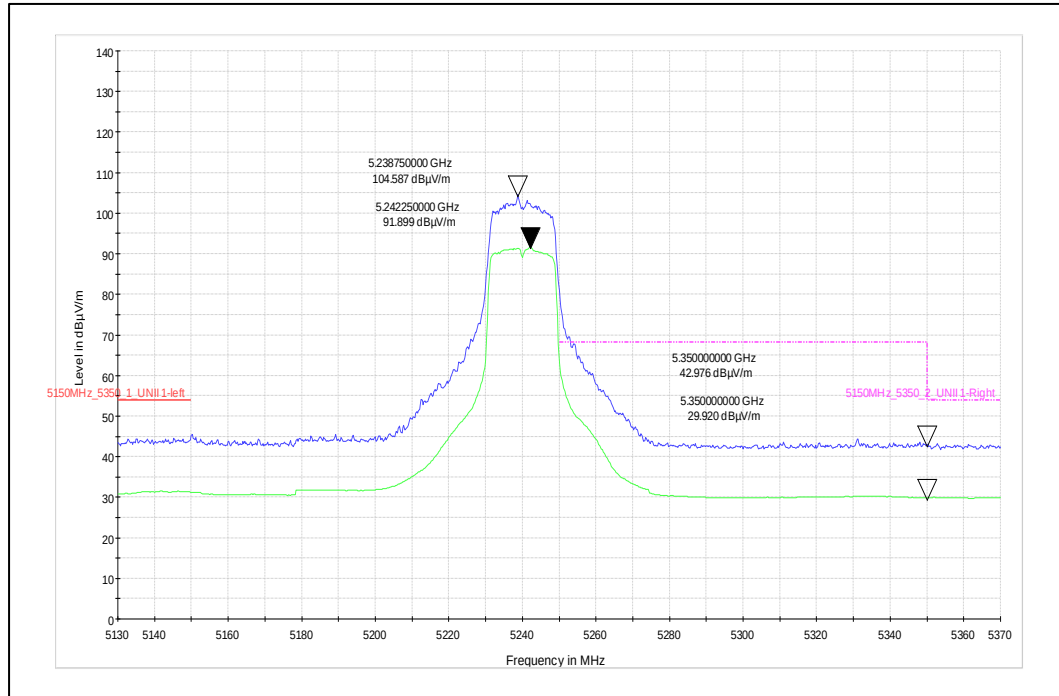
Channel Frequency_5825MHz_Horizontal Polarization



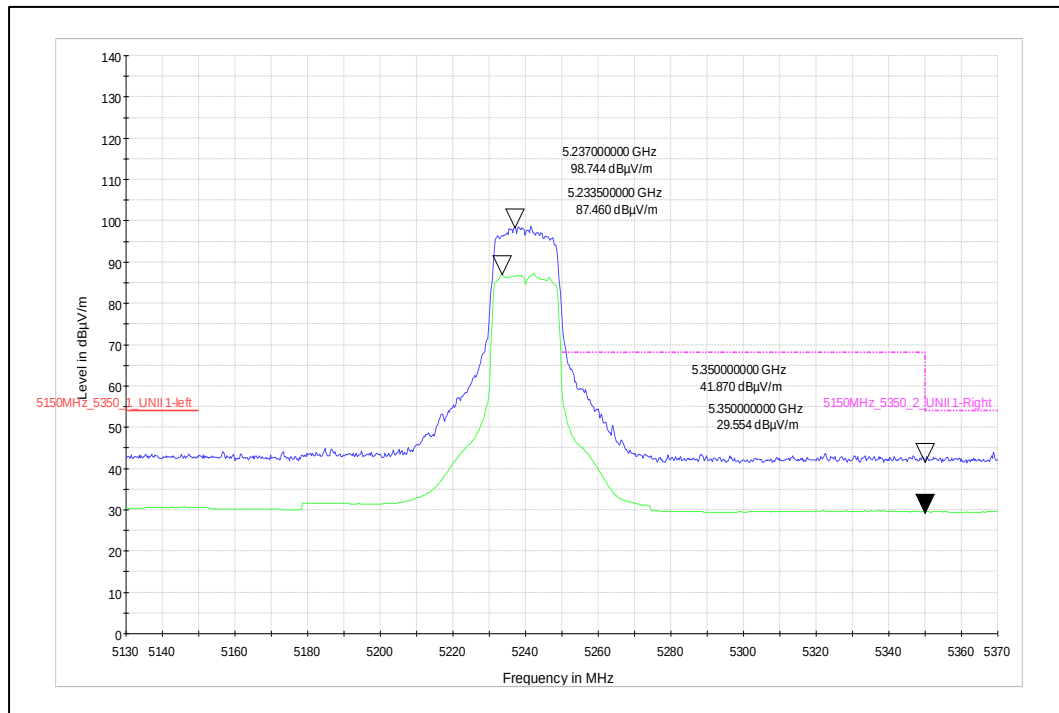
Modulation: 802.11ac_VHT 20

Data Rate : MCS0

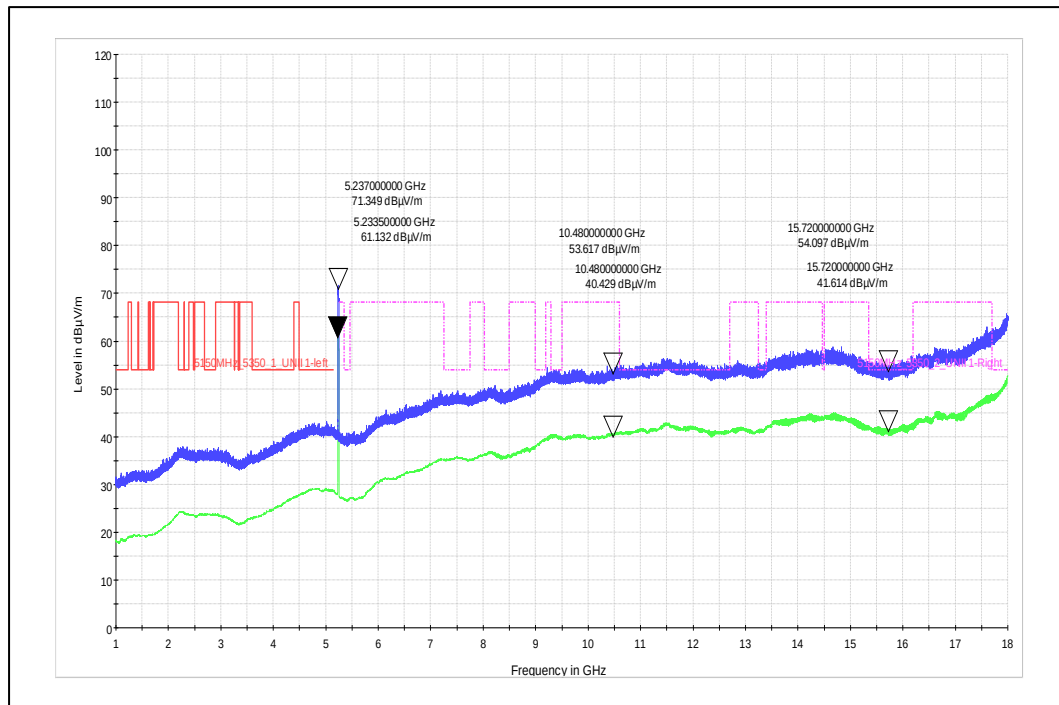
Channel Frequency_5240MHz_Vertical Polarization



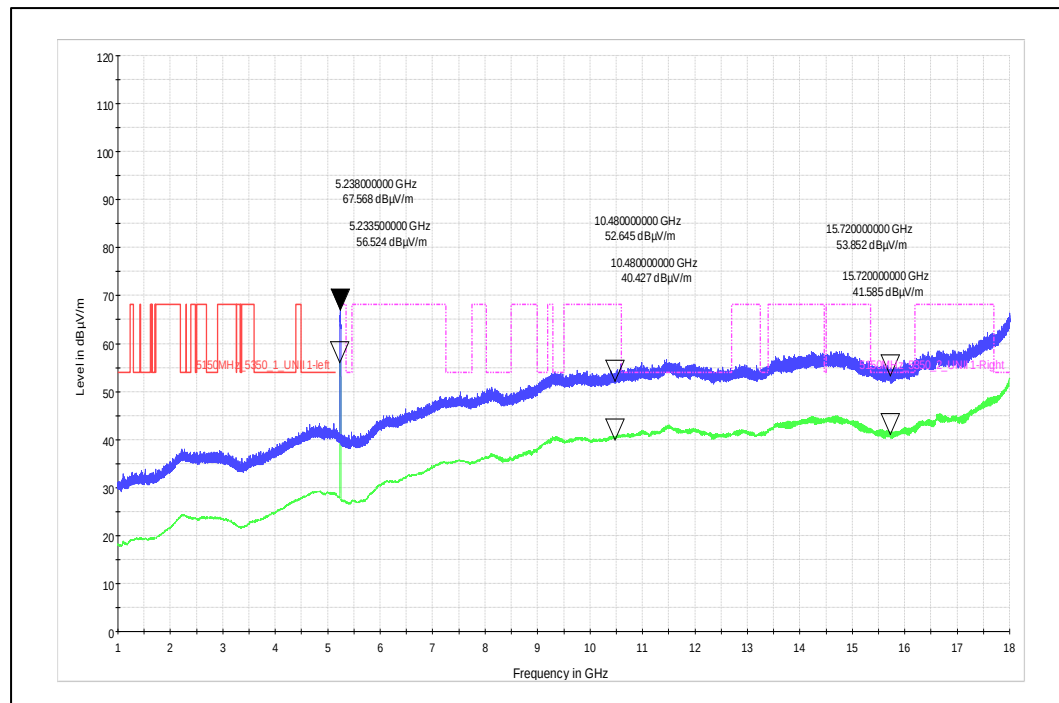
Channel Frequency_5240MHz_Horizontal Polarization



Channel Frequency_5240MHz_Vertical Polarization



Channel Frequency_5240MHz_Horizontal Polarization



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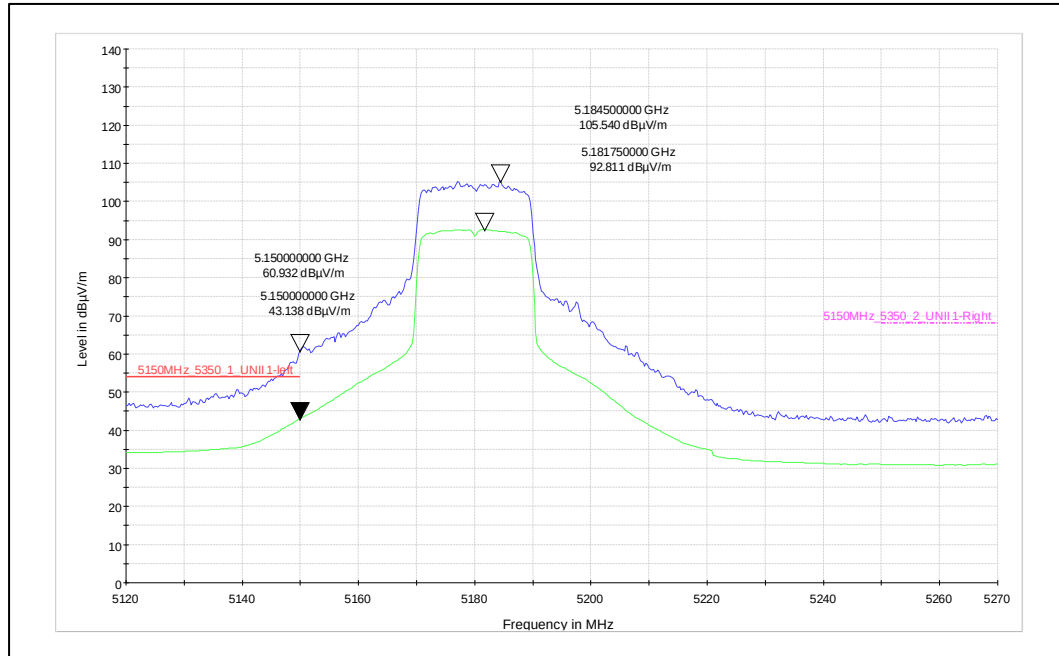
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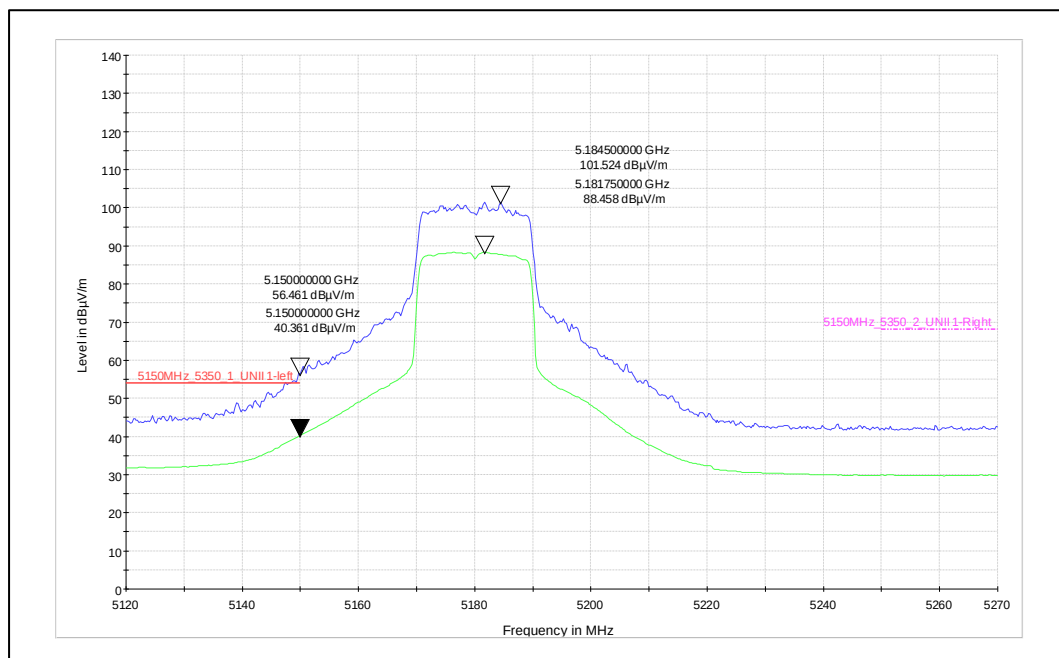
Modulation: 802.11ax_HE 20

Data Rate : MCS0

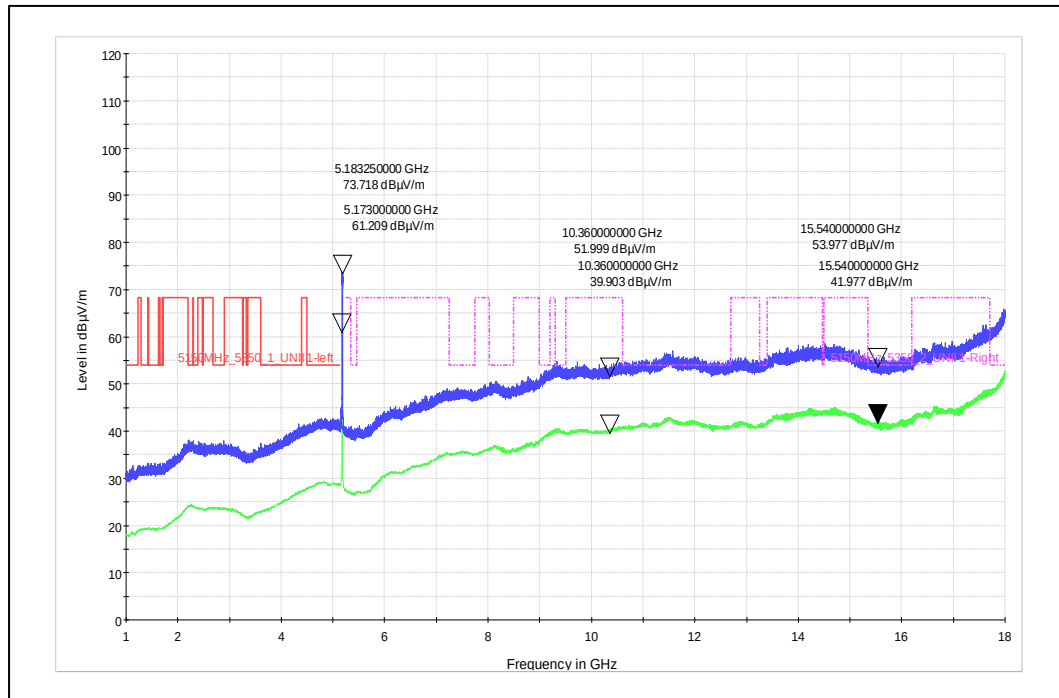
Channel Frequency_5180MHz_Vertical Polarization



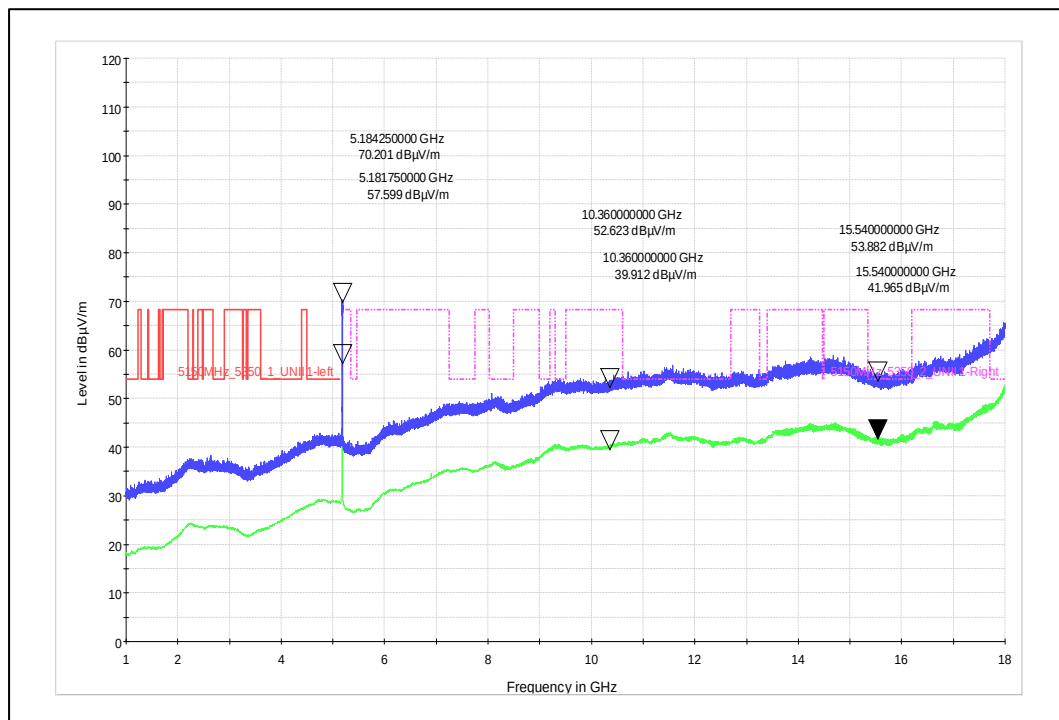
Channel Frequency_5180MHz_Horizontal Polarization



Channel Frequency_5180MHz_Vertical Polarization



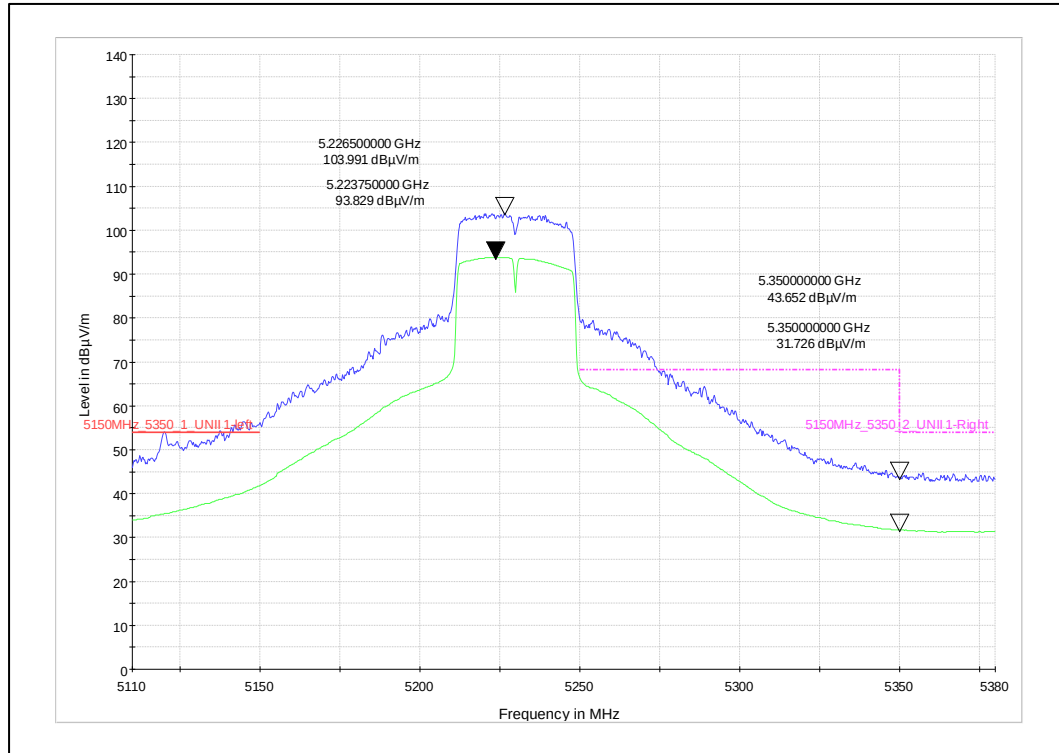
Channel Frequency_5180MHz_Horizontal Polarization



Modulation: 802.11n_HT40

Data Rate : MCS0

Channel Frequency_5230MHz_Vertical Polarization



Channel Frequency_5230MHz_Horizontal Polarization

