



FCC PART 15.407

TEST REPORT

For

SHENZHEN TENDA TECHNOLOGY CO.,LTD

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518052

FCC ID: V7THG7


Report Type: Original Report	Product Name: AC1200 Dualband Wi-Fi xPON ONT
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

EUT Name:	AC1200 Dualband Wi-Fi xPON ONT
EUT Model:	HG7
Multiple Model:	HG7c
Operation Frequency:	5180-5240 MHz (802.11a/n ht20/ac vht20) 5190-5230 MHz(802.11n ht40/ac vht40) 5210 MHz(802.11ac vht80) 5745-5825 MHz (802.11a/n ht20/ac vht20) 5755-5795 MHz(802.11n ht40/ac vht40) 5775 MHz(802.11ac vht80)
Maximum Average Output Power (Conducted):	20.19 dBm (5150-5250 MHz) 19.85 dBm (5725-5850 MHz)
Antenna Gain ▲:	4dBi
Modulation Type:	OFDM
Rated Input Voltage:	DC 12V from adapter
Adapter Information	Model: BN073-A12012U
	Input: AC100~240V~50/60Hz 0.4A
	Output: DC12V 1A
Serial Number:	DG2210729-31745E-RF-S1
EUT Received Date:	2021.8.1
EUT Received Status:	Good

Note: The series product, models HG7, HG7c are electrically identical. HG7 was full tested. The different between them please refer to the declaration letter for details.

Objective

This type approval report is prepared on behalf of **SHENZHEN TENDA TECHNOLOGY CO.,LTD** in accordance with Part 2-Subpart J, Part 15-Subparts A, and E of the Federal Communications Commission's rules.

The tests were performed in order to determine compliance with FCC Rules Part 15, Subpart E, section 15.203, 15.205, 15.207, 15.209 and 15.407 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices. And KDB 789033 D02 General U-NII Test Procedures New Rules v02r01.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Dongguan).

Measurement Uncertainty

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	30M~200MHz: 4.55 dB,200M~1GHz: 5.92 dB,1G~6GHz: 4.98 dB, 6G~18GHz: 5.89 dB,18GHz~26.5GHz:5.47 dB,26.5GHz~40GHz:5.63 dB
Unwanted Emissions,conducted	±1.5 dB
Temperature	±1 °C
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	3.12 dB (150 kHz to 30 MHz)

Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage Factor K with the 95% confidence interval.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 897218, the FCC Designation No. : CN1220.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

Declarations

BACL is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “▲”. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system support 802.11a/n ht20/n ht40/ac vht20/ac vht40/ac vht80.

The system supports Beamforming and Non-beamforming modes at 802.11n,802.11ac modes. The two modes have same output power, and the Beamforming gain is 3 dBi, which are declared by manufacturer. Therefore, the all RF conducted test were performed at Non-beamforming mode only.

For 5150~5250 MHz band, 7 channels are provided:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220
38	5190	46	5230
40	5200	48	5240
42	5210	/	/

For 802.11a, 802.11n ht20, 802.11ac vht20 channel 36, 40 and 48 was tested, for 802.11n ht40, 802.11ac vht40 channel 38, 46 were tested, for 802.11ac vht80, channel 42 was tested.

For 5725~5850MHz band, 8 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	157	5785
151	5755	159	5795
153	5765	161	5805
155	5775	165	5825

For 802.11a, 802.11n ht20, 802.11ac vht20 channel 149, 157 and 165 was tested, for 802.11n ht40, 802.11ac vht40 channel 151, 159 were tested, for 802.11ac vht80, channel 155 was tested.

EUT Exercise Software

The software “MP TEST V3.6” was used for testing, which was provided by Manufacturer. The worst-case data rates are determined to be as follows for each mode based upon investigations by measuring the average power and PSD across all data rates, bandwidths, and modulations. The device supports SISO and MIMO at 802.11n and ac mode, per pre-test, MIMO 2TX mode was the worst and reported. The maximum power was configured as below table, that provided by the Manufacturer ▲:

5150-5250 MHz:

Mode	Channel	Frequency (MHz)	Data Rate	Power level Setting	
				Chain 0	Chain 1
802.11a	Low	5180	6 Mbps	30	30
	Middle	5200	6 Mbps	30	30
	High	5240	6 Mbps	30	30
802.11n ht20	Low	5180	MCS8	50	30
	Middle	5200	MCS8	50	30
	High	5240	MCS8	50	30
802.11n ht40	Low	5190	MCS8	50	30
	High	5230	MCS8	50	30
802.11ac vht20	Low	5180	MCS8	50	50
	Middle	5200	MCS8	50	50
	High	5240	MCS8	50	50
802.11ac vht40	Low	5190	MCS8	50	50
	High	5230	MCS8	50	50
802.11ac vht80	Middle	5210	MCS8	50	30

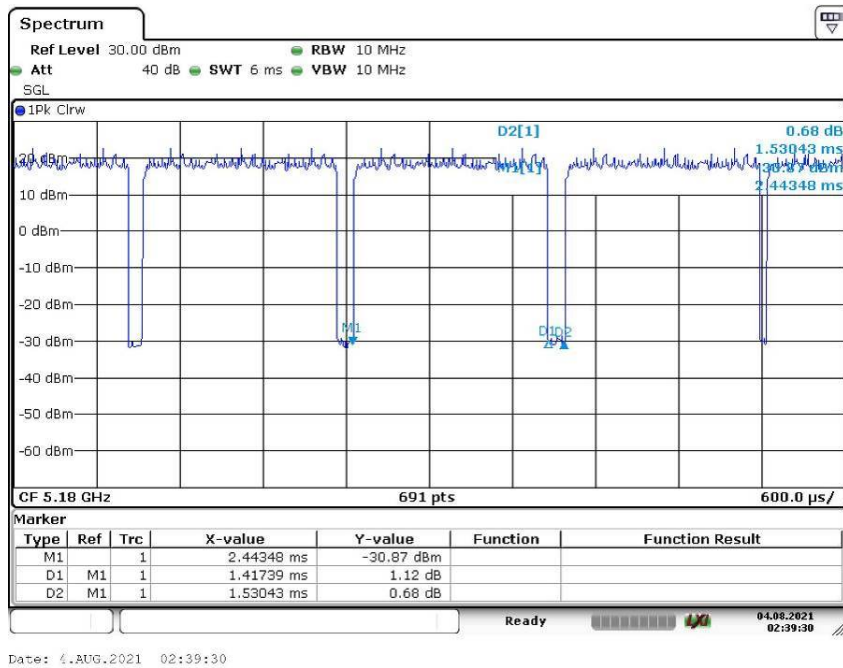
5725-5850 MHz:

Mode	Channel	Frequency (MHz)	Data Rate	Power level Setting	
				Chain 0	Chain 1
802.11a	Low	5745	6 Mbps	30	30
	Middle	5785	6 Mbps	30	30
	High	5825	6 Mbps	30	30
802.11n ht20	Low	5745	MCS8	50	50
	Middle	5785	MCS8	50	50
	High	5825	MCS8	50	50
802.11n ht40	Low	5755	MCS8	50	50
	High	5795	MCS8	50	50
802.11ac vht20	Low	5745	MCS8	50	50
	Middle	5785	MCS8	50	50
	High	5825	MCS8	50	50
802.11ac vht40	Low	5755	MCS8	50	50
	High	5795	MCS8	50	50
802.11ac vht80	Middle	5775	MCS8	50	50

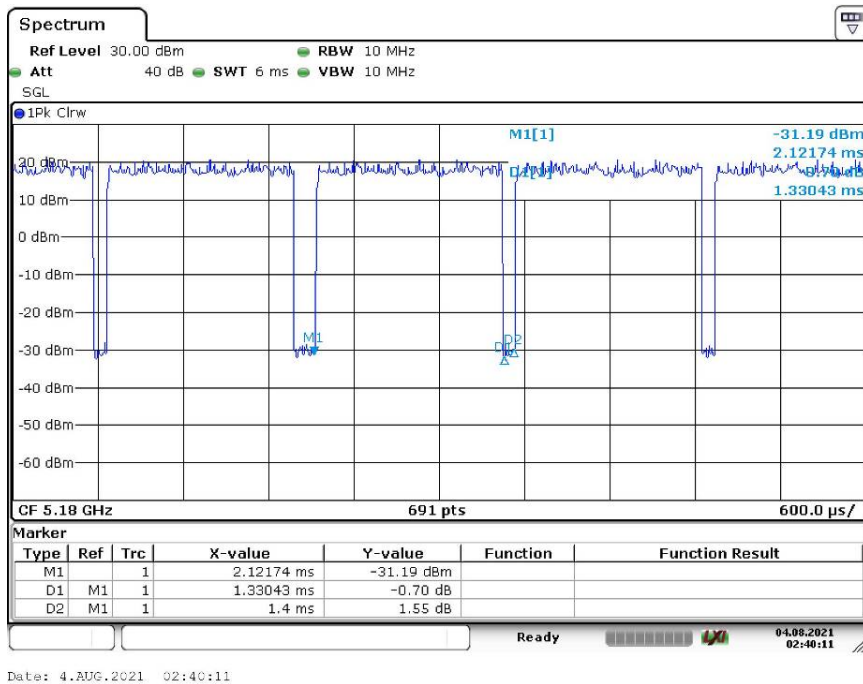
The duty cycle as below:

Mode	T _{on} (ms)	T _{on+off} (ms)	Duty Cycle (%)
802.11 a	1.417	1.530	87.27
802.11n ht20	1.330	1.400	75.99
802.11n ht40	0.657	0.810	62.83
802.11ac vht20	0.156	0.230	67.83
802.11ac vht40	0.094	0.189	49.74
802.11ac vht80	0.330	0.484	25.56

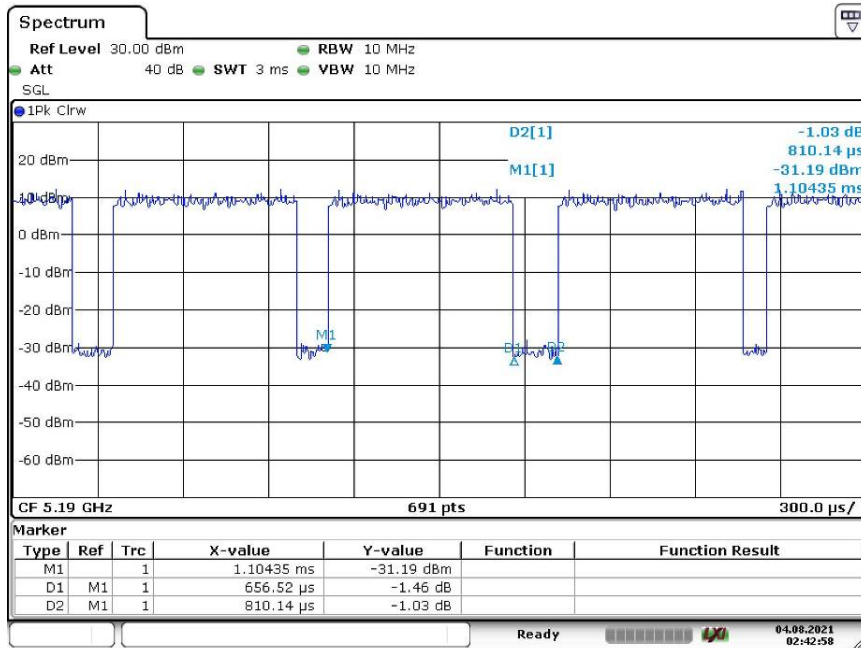
802.11a



802.11n ht20

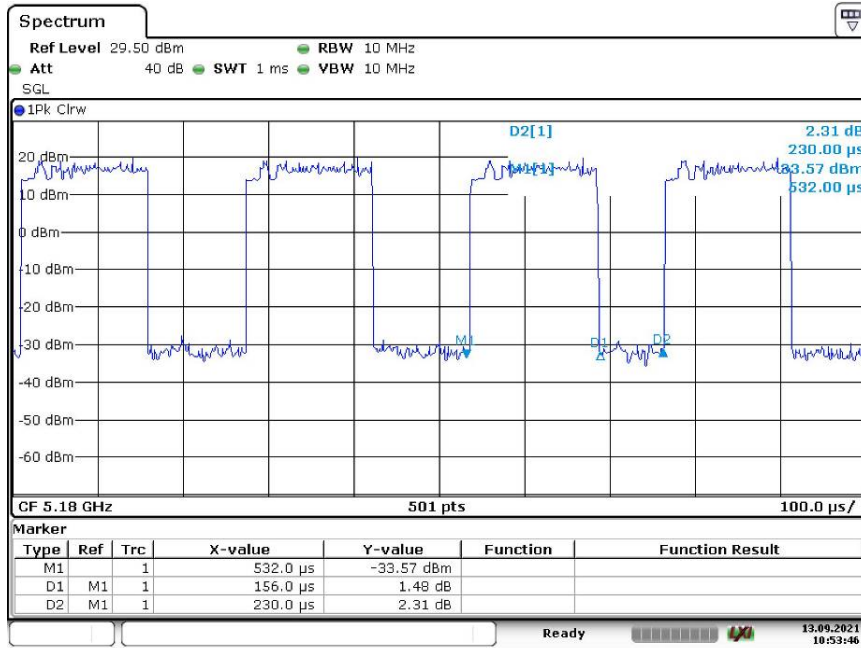


802.11n ht40



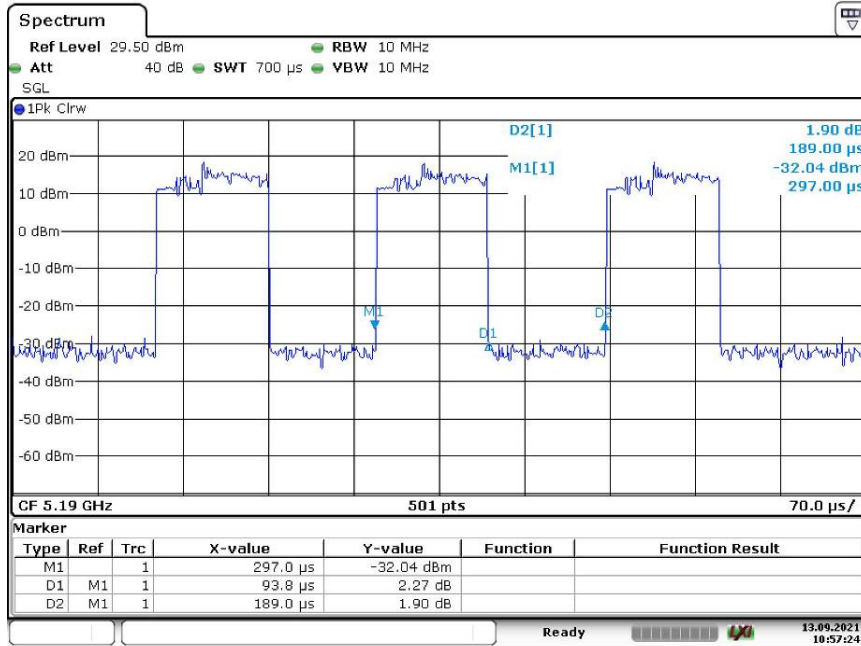
Date: 4.AUG.2021 02:42:58

802.11ac vht20



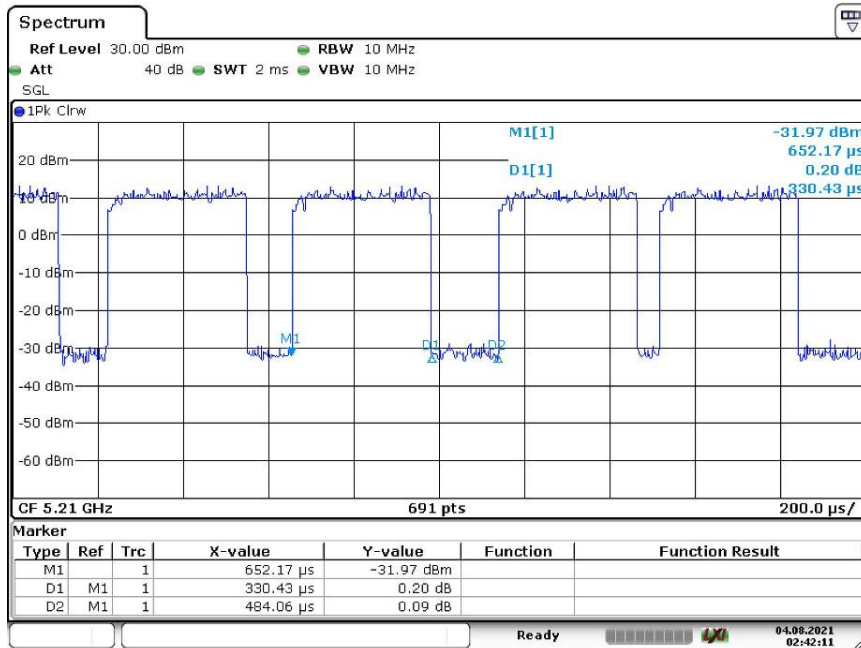
Date: 13.SEP.2021 10:53:46

802.11ac vht40



Date: 13.SEP.2021 10:57:25

802.11ac vht80



Date: 4.AUG.2021 02:42:11

Equipment Modifications

No modification was made to the EUT.

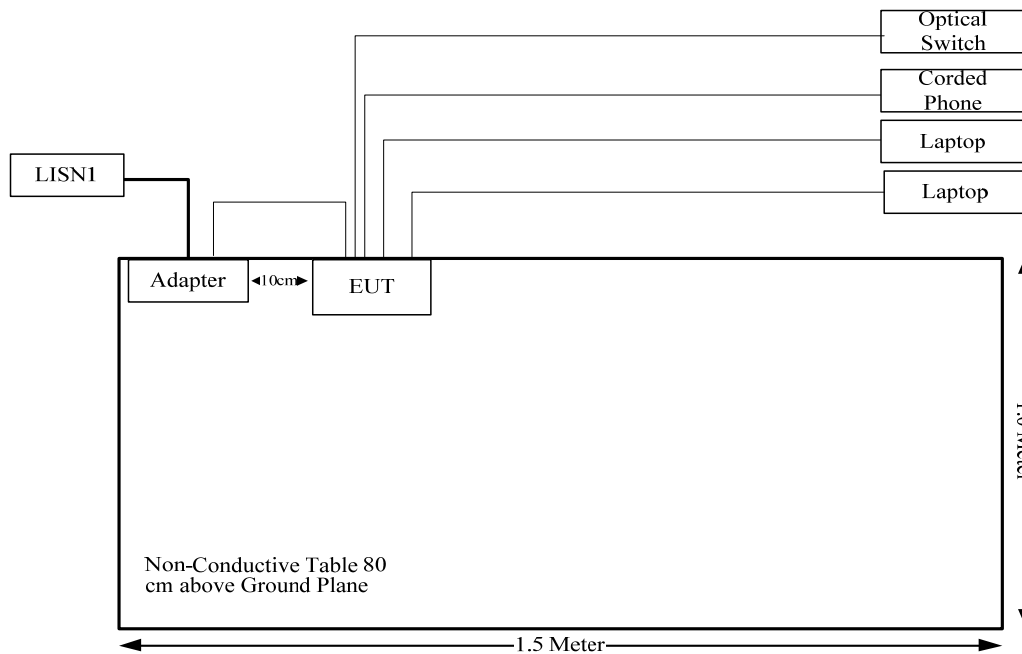
Local Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
ZTE	Optical Switch	OP02N	82269441
ZTE	Phone	AXON	2017011606936660
Lenovo	Lenovo-02	E450	PF-OMRADG
Lenovo	Lenovo-02	E450	PF-ADG577

Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Optical cable	No	No	5	EUT	Switch
RJ45 Cable	Yes	No	10	EUT	Laptop
RJ45 Cable	Yes	No	10	EUT	Laptop
RJ11 Cable	Yes	No	10	EUT	Phone

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

Rules	Description of Test	Result
FCC §15.407 (f) & §1.1310 & §2.1091	Maximum Permissible Exposure (MPE)	Compliance
FCC§15.203	Antenna Requirement	Compliance
FCC§15.407(b)(6)& §15.207(a)	Conducted Emissions	Compliance
FCC§15.205& §15.209 &§15.407(b)	Undesirable Emission& Restricted Bands	Compliance
FCC§15.407(b)	Out Of Band Emissions	Compliance
FCC§15.407(a) (e)	Emission Bandwidth	Compliance
FCC§15.407(a)	Conducted Transmitter Output Power	Compliance
FCC§15.407 (a)	Power Spectral Density	Compliance

FCC §15.407 (f) & §1.1310 & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 15.407(f) and subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission’s guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm²)	Averaging Time (minutes)
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500	/	/	f/1500	30
1500–100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Calculation formula:

Prediction of power density at the distance of the applicable MPE limit

$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain Factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

Calculated Data:

Mode	Frequency (MHz)	Antenna Gain		Conducted output power including Tune-up Tolerance		Evaluation Distance (cm)	Power Density (mW/cm²)	MPE Limit (mW/cm²)
		(dBi)	(numeric)	(dBm)	(mW)			
WLAN	2412-2462	8	6.31	25	316.23	20.00	0.40	1.0
WLAN	5150-5250	7	5.01	21	125.89	20.00	0.13	1.0
WLAN	5725-5850	7	5.01	20	100.00	20.00	0.10	1.0

Note: The WLAN 2.4G and 5G can't transmit simultaneously.

The antenna gain is added beamforming gain.

Result: The device meet FCC MPE at **20 cm** distance

FCC §15.203- ANTENNA REQUIREMENT

Applicable Standard

According to FCC§ 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.
- c. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

Antenna Connector Construction

The EUT has 2 external antennas for 2.4G WLAN and 5G WLAN, which was permanently attached to the unit, fulfill the requirement of this section. Please refer to the EUT photos and below information:

Antenna	Antenna Type	input impedance (Ohm)	Antenna Gain /Frequency Range
Chain 0	Dipole	50	5 dBi/2.4-2.5GHz 4 dBi/5.15-5.85GHz
Chain 1	Dipole	50	5 dBi/2.4-2.5GHz 4 dBi/5.15-5.85GHz

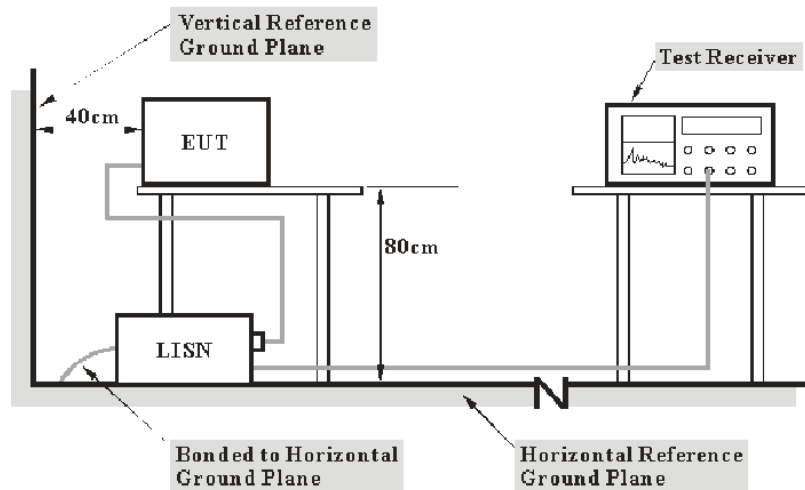
Result: Compliance.

FCC §15.207(a)– CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a), §15.407(b) (6).

EUT Setup



- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter was connected to the main lisn with a 120 V/60 Hz AC power source.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Corrected Amplitude & Margin Calculation

The basic equation is as follows:

$$V_C = V_R + A_C + VDF$$

$$C_f = A_C + VDF$$

Herein,

V_C (cord. Reading): corrected voltage amplitude

V_R : reading voltage amplitude

A_C : attenuation caused by cable loss

VDF: voltage division Factor of AMN

C_f : Correction Factor

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV 216	101614	2020-09-12	2021-09-12
R&S	EMI Test Receiver	ESCI	101121	2021-07-22	2022-07-21
MICRO-COAX	Coaxial Cable	C-NJNJ-50	C-0200-01	2020-09-05	2021-09-05
R&S	Test Software	EMC32	Version 9.10.00	N/A	N/A

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Procedure

During the conducted emission test, the adapter was connected to the first LISN.

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase (“hot”) line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

Test Data

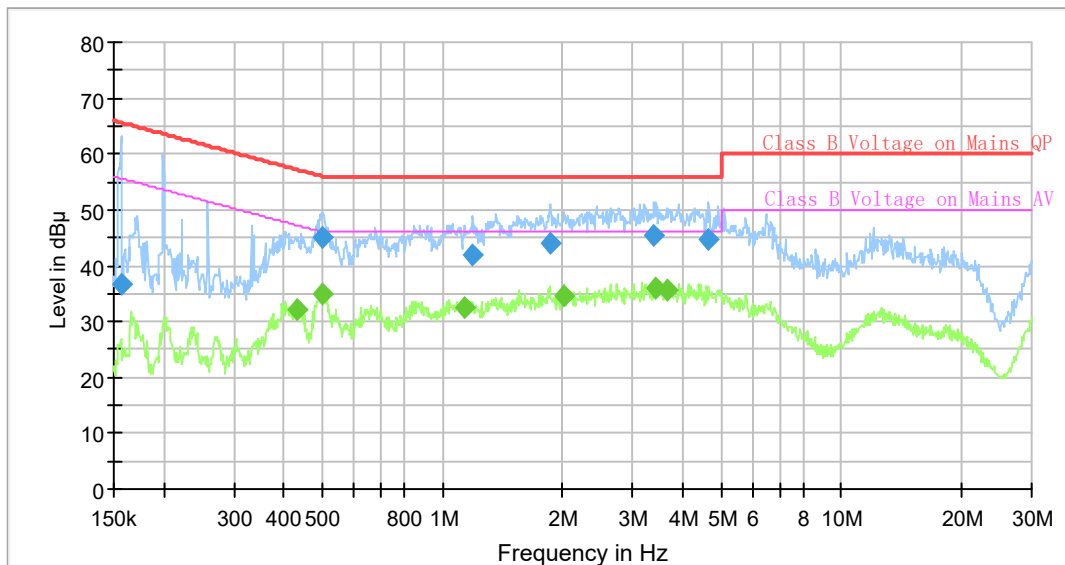
Environmental Conditions

Temperature:	26.7°C
Relative Humidity:	67%
ATM Pressure:	100.4kPa
Tester:	Walker Chen
Test Date:	2021-08-12

Test Result: Compliance.

Test Mode: Transmitting (802.11a 5825MHz chain 1 was the worst)

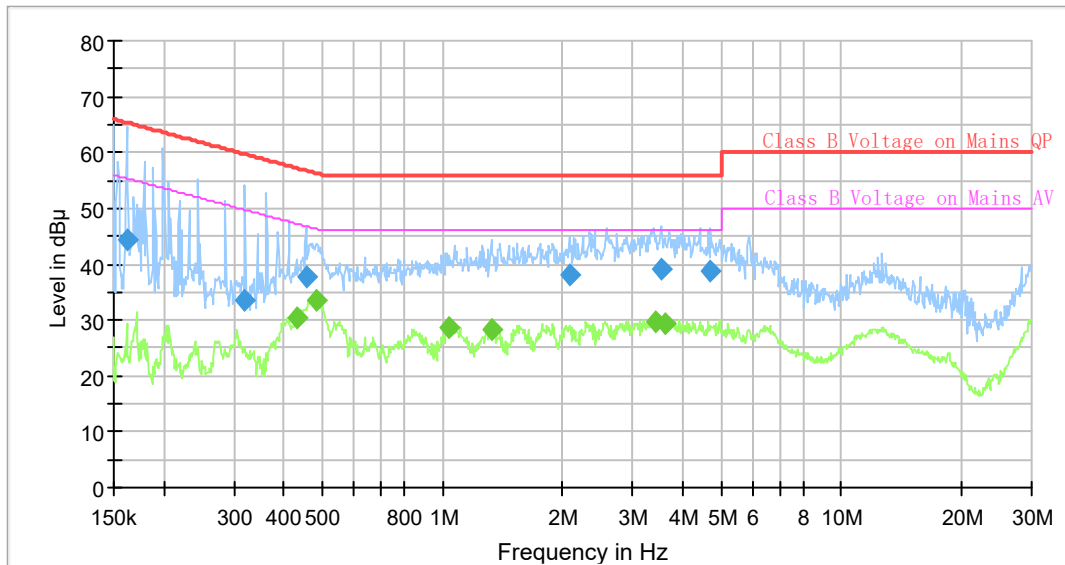
AC120 V, 60 Hz, Line:



Final Result

Frequency (MHz)	QuasiPeak (dB µV)	Average (dB µV)	Limit (dB µV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.156106	36.72	---	65.67	28.95	9.000	L1	9.6
0.431814	---	32.26	47.22	14.96	9.000	L1	9.6
0.501508	---	35.06	46.00	10.94	9.000	L1	9.6
0.501508	45.15	---	56.00	10.85	9.000	L1	9.6
1.130697	---	32.49	46.00	13.51	9.000	L1	9.7
1.194464	42.07	---	56.00	13.93	9.000	L1	9.7
1.871193	43.85	---	56.00	12.15	9.000	L1	9.7
2.026635	---	34.51	46.00	11.49	9.000	L1	9.7
3.387504	45.39	---	56.00	10.61	9.000	L1	9.7
3.438571	---	35.93	46.00	10.07	9.000	L1	9.7
3.650655	---	35.74	46.00	10.26	9.000	L1	9.7
4.661308	44.55	---	56.00	11.45	9.000	L1	9.7

AC120 V, 60 Hz, Neutral:



Final Result

Frequency (MHz)	QuasiPeak (dB µ V)	Average (dB µ V)	Limit (dB µ V)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.161652	44.32	---	65.38	21.06	9.000	N	9.6
0.320135	33.49	---	59.70	26.21	9.000	N	9.6
0.429665	---	30.41	47.26	16.85	9.000	N	9.6
0.456166	37.84	---	56.76	18.92	9.000	N	9.6
0.481892	---	33.64	46.31	12.67	9.000	N	9.6
1.043973	---	28.60	46.00	17.40	9.000	N	9.6
1.326356	---	28.37	46.00	17.63	9.000	N	9.6
2.077810	38.17	---	56.00	17.83	9.000	N	9.6
3.404442	---	29.74	46.00	16.26	9.000	N	9.6
3.525400	38.96	---	56.00	17.04	9.000	N	9.6
3.632492	---	29.48	46.00	16.52	9.000	N	9.6
4.708038	38.68	---	56.00	17.32	9.000	N	9.6

FCC §15.209, §15.205 , §15.407(b) –UNWANTED EMISSION

Applicable Standard

FCC §15.407; §15.209; §15.205;

(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in §15.247(d), but manufac vhturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in §15.247(d), but manufac vhturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.

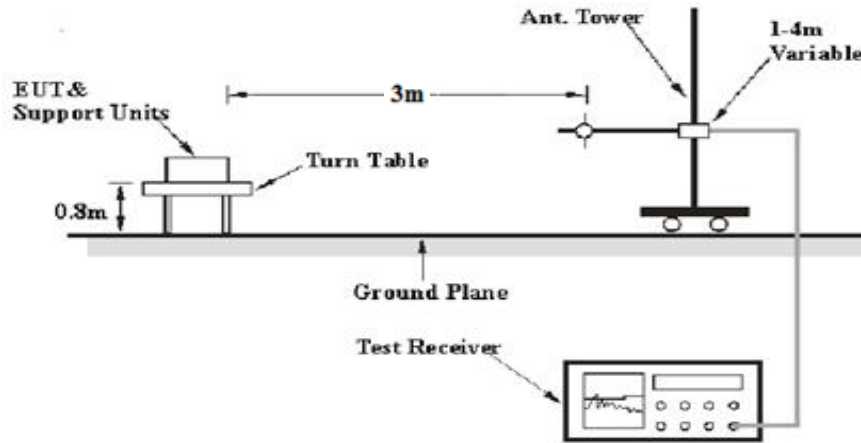
(5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

(6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.

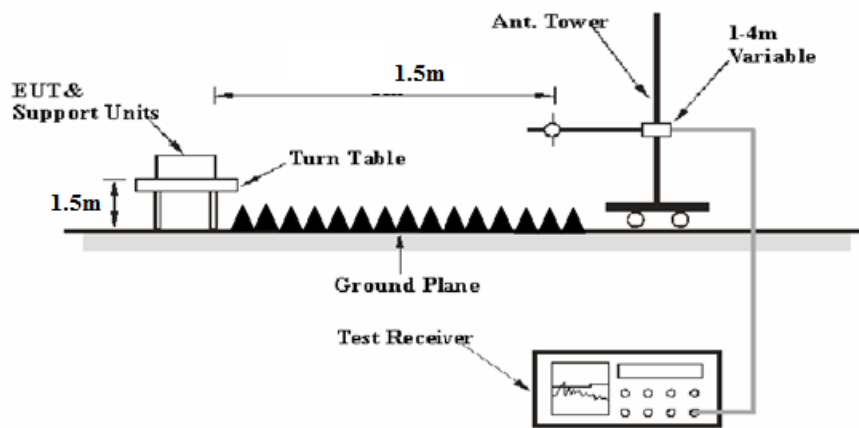
(7) The provisions of §15.205 apply to intentional radiators operating under this section.

EUT Setup

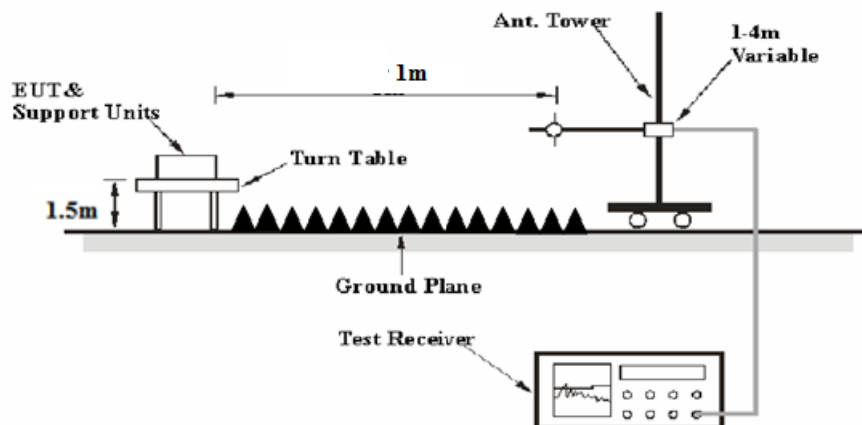
Below 1 GHz:



1-26.5 GHz:



26.5-40 GHz:



The radiated emission Below 1GHz tests were performed in the 10 meters chamber test site, above 1GHz tests were performed in the 3 meters chamber test site B, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.407 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 40 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

30-1000MHz:

Measurement	RBW	Video B/W	IF B/W
QP	120 kHz	300 kHz	120kHz

1GHz- 40GHz:

Measurement	Duty cycle	RBW	Video B/W
PK	Any	1MHz	3 MHz
Ave.	>98%	1MHz	10 Hz
	<98%	1MHz	1/T

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

Test Procedure

During the radiated emission test, the adapter was connected to the first AC floor outlet.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1GHz, peak and Average detection modes for frequencies above 1GHz.

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, emission shall be computed as: $E [dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.

According to C63.10, the above 1G test result shall be extrapolated to the specified distance using an extrapolation Factor of 20dB/decade from 3m to 1.5m or 1m

Distance extrapolation Factor = $20 \log (\text{specific distance } [3m] / \text{test distance } [1.5m])$ dB= 6.02 dB

or

Distance extrapolation Factor = $20 \log (\text{specific distance } [3m] / \text{test distance } [1m])$ dB= 9.54 dB

All emissions under the average limit and under the noise floor have not recorded in the report.

Corrected Amplitude & Margin Calculation

For the range 30MHz-1GHz, the Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

For the range 1GHz-40GHz, Test performed at 1.5m or 1m, the Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading and the Distance extrapolation Factor. The basic equation is as follows:

$$\begin{aligned} &\text{Corrected Amplitude} \\ &= \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain} - \text{Distance extrapolation factor} \end{aligned}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiation Below 1GHz Test					
Sunol Sciences	Antenna	JB3	A060611-2	2020-08-25	2023-08-25
R&S	EMI Test Receiver	ESCI	100224	2020-09-12	2021-09-12
Unknown	Coaxial Cable	C-NJNJ-50	C-1000-01	2020-09-05	2021-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-02	2020-09-05	2021-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0530-01	2020-09-24	2021-09-24
Sonoma	Amplifier	310N	185914	2020-10-13	2021-10-13
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A
Radiation Above 1GHz Test					
ETS-Lindgren	Horn Antenna	3115	000 527 35	2018-10-12	2021-10-12
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-01 1304	2020-12-05	2023-12-04
Ducommun Technologies	Horn Antenna	ARH-2823-02	1007726-01 1302	2020-12-05	2023-12-04
R&S	Spectrum Analyzer	FSV40	101474	2021-07-22	2022-07-21
Agilent	Spectrum Analyzer	E4440A	SG43360054	2021-07-22	2022-07-21
Unknown	Coaxial Cable	C-SJSJ-50	C-0800-01	2020-09-05	2021-09-05
Unknown	Coaxial Cable	C-2.4J2.4J-50	C-0700-02	2021-06-27	2022-06-26
Mini-Circuit	Amplifier	ZVA-213-S+	54201245	2020-09-05	2021-09-05
Quinstar	Amplifier	QLW-18405536-JO	15964001001	2021-06-27	2022-06-26
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A
Sinoscite	Bandstop Filters	BSF5150-5850MN- 0899-003	0899003	2021-05-06	2022-05-05
Mini Circuits	High Pass Filter	VHF-6010+	31118	2021-06-16	2022-06-15

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

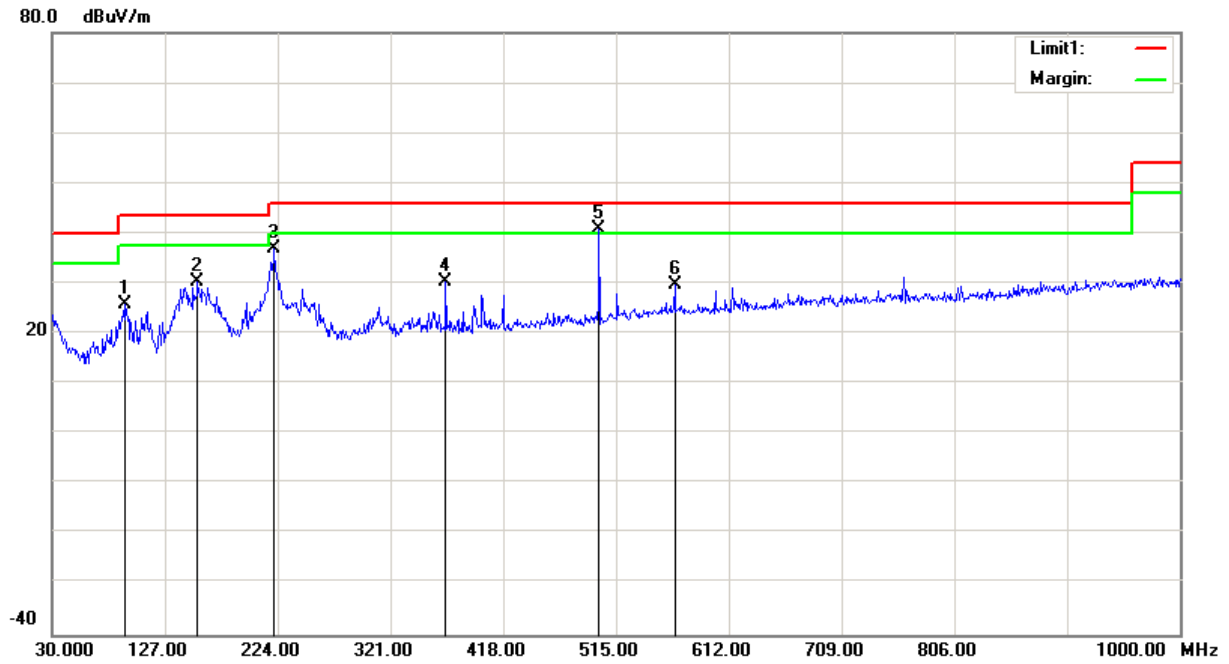
Test Data**Environmental Conditions**

Test Items	Radiation Below 1GHz	Radiation Above 1GHz
Temperature:	22.8°C	28.5~28.6 °C
Relative Humidity:	60%	39~42 %
ATM Pressure:	100.6kPa	100.3kPa
Tester:	Joyce Qiao	Lee Li, Wade Huang
Test Date:	2021-08-28	2021-08-18~2021-08-19

Test Mode: Transmitting

1) Below 1GHz(802.11a chain 0 5825 MHz was the worst):

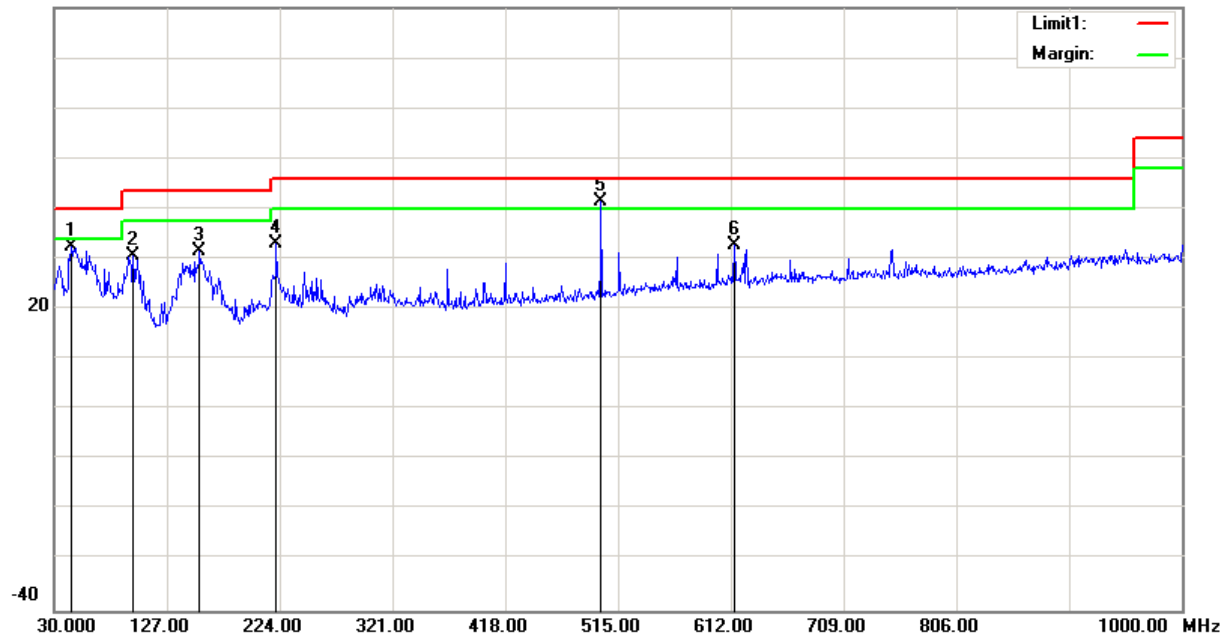
Horizontal:



Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
92.0800	40.65	peak	-14.83	25.82	43.50	17.68
155.1300	39.77	peak	-9.30	30.47	43.50	13.03
221.0900	48.01	peak	-11.18	36.83	46.00	9.17
368.5300	36.39	peak	-6.06	30.33	46.00	15.67
500.4500	44.22	QP	-3.45	40.77	46.00	5.23
565.4400	31.34	peak	-1.51	29.83	46.00	16.17

Vertical:

80.0 dB μ V/m



Frequency (MHz)	Receiver Reading (dB μ V)	Detector	Correction Factor (dB/m)	Cord. Amp. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
44.5500	44.78	peak	-12.38	32.40	40.00	7.60
97.9000	44.83	peak	-14.19	30.64	43.50	12.86
155.1300	40.94	peak	-9.30	31.64	43.50	11.86
221.0900	44.15	peak	-11.18	32.97	46.00	13.03
500.4500	45.01	QP	-3.45	41.56	46.00	4.44
614.9100	33.71	peak	-0.90	32.81	46.00	13.19

**2) 1GHz-40GHz:
5150-5250MHz
802.11a, Chain 0**

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBµV/m)	Extrapolation result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)						
Low Channel: 5180 MHz										
5180.00	66.72	PK	H	33.59	3.58	0.00	103.89	97.87	N/A	N/A
5180.00	57.85	AV	H	33.59	3.58	0.00	95.02	89	N/A	N/A
5180.00	72.93	PK	V	33.59	3.58	0.00	110.10	104.08	N/A	N/A
5180.00	63.59	AV	V	33.59	3.58	0.00	100.76	94.74	N/A	N/A
5150.00	28.34	PK	V	33.54	3.56	0.00	65.44	59.42	74.00	14.58
5150.00	15.94	AV	V	33.54	3.56	0.00	53.04	47.02	54.00	6.98
10360.00	38.63	PK	V	38.17	6.29	25.46	57.63	51.61	68.20	16.59
15540.00	36.27	PK	V	38.06	8.85	24.27	58.91	52.89	74.00	21.11
15540.00	24.95	AV	V	38.06	8.85	24.27	47.59	41.57	54.00	12.43
Middle Channel: 5200 MHz										
5200.00	66.72	PK	H	33.62	3.60	0.00	103.94	97.92	N/A	N/A
5200.00	57.85	AV	H	33.62	3.60	0.00	95.07	89.05	N/A	N/A
5200.00	72.93	PK	V	33.62	3.60	0.00	110.15	104.13	N/A	N/A
5200.00	63.59	AV	V	33.62	3.60	0.00	100.81	94.79	N/A	N/A
10400.00	38.86	PK	V	38.18	6.32	25.46	57.90	51.88	68.20	16.32
15600.00	36.50	PK	V	38.00	8.83	24.31	59.02	53	74.00	21.00
15600.00	24.91	AV	V	38.00	8.83	24.31	47.43	41.41	54.00	12.59
High Channel: 5240 MHz										
5240.00	66.57	PK	H	33.68	3.52	0.00	103.77	97.75	N/A	N/A
5240.00	57.84	AV	H	33.68	3.52	0.00	95.04	89.02	N/A	N/A
5240.00	73.25	PK	V	33.68	3.52	0.00	110.45	104.43	N/A	N/A
5240.00	64.15	AV	V	33.68	3.52	0.00	101.35	95.33	N/A	N/A
5350.00	27.66	PK	V	33.86	3.52	0.00	65.04	59.02	74.00	14.98
5350.00	15.73	AV	V	33.86	3.52	0.00	53.11	47.09	54.00	6.91
10480.00	38.40	PK	V	38.20	6.37	25.47	57.50	51.48	68.20	16.72
15720.00	36.04	PK	V	37.88	8.79	24.39	58.32	52.3	74.00	21.70
15720.00	24.45	AV	V	37.88	8.79	24.39	46.73	40.71	54.00	13.29

Chain 1

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dB μ V/m)	Extrapolation result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector	Polar (H/V)	Factor (dB/m)						
Low Channel: 5180 MHz										
5180.00	66.08	PK	H	33.59	3.58	0.00	103.25	97.23	N/A	N/A
5180.00	57.85	AV	H	33.59	3.58	0.00	95.02	89	N/A	N/A
5180.00	72.17	PK	V	33.59	3.58	0.00	109.34	103.32	N/A	N/A
5180.00	64.32	AV	V	33.59	3.58	0.00	101.49	95.47	N/A	N/A
5150.00	28.46	PK	V	33.54	3.56	0.00	65.56	59.54	74.00	14.46
5150.00	15.82	AV	V	33.54	3.56	0.00	52.92	46.9	54.00	7.10
10360.00	36.85	PK	V	38.17	6.29	25.46	55.85	49.83	68.20	18.37
15540.00	36.47	PK	V	38.06	8.85	24.27	59.11	53.09	74.00	20.91
15540.00	24.65	AV	V	38.06	8.85	24.27	47.29	41.27	54.00	12.73
Middle Channel: 5200 MHz										
5200.00	67.09	PK	H	33.62	3.60	0.00	104.31	98.29	N/A	N/A
5200.00	58.03	AV	H	33.62	3.60	0.00	95.25	89.23	N/A	N/A
5200.00	72.61	PK	V	33.62	3.60	0.00	109.83	103.81	N/A	N/A
5200.00	63.46	AV	V	33.62	3.60	0.00	100.68	94.66	N/A	N/A
10400.00	36.99	PK	V	38.18	6.32	25.46	56.03	50.01	68.20	18.19
15600.00	36.61	PK	V	38.00	8.83	24.31	59.13	53.11	74.00	20.89
15600.00	24.79	AV	V	38.00	8.83	24.31	47.31	41.29	54.00	12.71
High Channel: 5240 MHz										
5240.00	66.95	PK	H	33.68	3.52	0.00	104.15	98.13	N/A	N/A
5240.00	57.89	AV	H	33.68	3.52	0.00	95.09	89.07	N/A	N/A
5240.00	72.47	PK	V	33.68	3.52	0.00	109.67	103.65	N/A	N/A
5240.00	63.32	AV	V	33.68	3.52	0.00	100.52	94.5	N/A	N/A
5350.00	27.36	PK	V	33.86	3.52	0.00	64.74	58.72	74.00	15.28
5350.00	16.80	AV	V	33.86	3.52	0.00	54.18	48.16	54.00	5.84
10480.00	36.71	PK	V	38.20	6.37	25.47	55.81	49.79	68.20	18.41
15720.00	36.33	PK	V	37.88	8.79	24.39	58.61	52.59	74.00	21.41
15720.00	24.54	AV	V	37.88	8.79	24.39	46.82	40.8	54.00	13.20

802.11n ht20(2Tx mode was the worst):

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBµV/m)	Extrapolation result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)						
Low Channel: 5180 MHz										
5180.00	72.85	PK	H	33.59	3.58	0.00	110.02	104	N/A	N/A
5180.00	61.96	AV	H	33.59	3.58	0.00	99.13	93.11	N/A	N/A
5180.00	80.47	PK	V	33.59	3.58	0.00	117.64	111.62	N/A	N/A
5180.00	69.87	AV	V	33.59	3.58	0.00	107.04	101.02	N/A	N/A
5150.00	30.49	PK	V	33.54	3.56	0.00	67.59	61.57	74.00	12.43
5150.00	17.87	AV	V	33.54	3.56	0.00	54.97	48.95	54.00	5.05
10360.00	42.03	PK	V	38.17	6.29	25.46	61.03	55.01	68.20	13.19
15540.00	39.26	PK	V	38.06	8.85	24.27	61.90	55.88	74.00	18.12
15540.00	26.85	AV	V	38.06	8.85	24.27	49.49	43.47	54.00	10.53
Middle Channel: 5200 MHz										
5200.00	72.75	PK	H	33.62	3.60	0.00	109.97	103.95	N/A	N/A
5200.00	61.48	AV	H	33.62	3.60	0.00	98.70	92.68	N/A	N/A
5200.00	78.98	PK	V	33.62	3.60	0.00	116.20	110.18	N/A	N/A
5200.00	68.37	AV	V	33.62	3.60	0.00	105.59	99.57	N/A	N/A
10400.00	41.39	PK	V	38.18	6.32	25.46	60.43	54.41	68.20	13.79
15600.00	39.13	PK	V	38.00	8.83	24.31	61.65	55.63	74.00	18.37
15600.00	26.72	AV	V	38.00	8.83	24.31	49.24	43.22	54.00	10.78
High Channel: 5240 MHz										
5240.00	72.84	PK	H	33.68	3.52	0.00	110.04	104.02	N/A	N/A
5240.00	61.57	AV	H	33.68	3.52	0.00	98.77	92.75	N/A	N/A
5240.00	79.02	PK	V	33.68	3.52	0.00	116.22	110.2	N/A	N/A
5240.00	68.46	AV	V	33.68	3.52	0.00	105.66	99.64	N/A	N/A
5350.00	27.76	PK	V	33.86	3.52	0.00	65.14	59.12	74.00	14.88
5350.00	16.07	AV	V	33.86	3.52	0.00	53.45	47.43	54.00	6.57
10480.00	41.63	PK	V	38.20	6.37	25.47	60.73	54.71	68.20	13.49
15720.00	39.35	PK	V	37.88	8.79	24.39	61.63	55.61	74.00	18.39
15720.00	26.94	AV	V	37.88	8.79	24.39	49.22	43.2	54.00	10.80

802.11n ht40(2Tx mode was the worst):

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBµV/m)	Extrapolation result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)						
Low Channel: 5190 MHz										
5190.00	68.66	PK	H	33.60	3.59	0.00	105.85	99.83	N/A	N/A
5190.00	57.59	AV	H	33.60	3.59	0.00	94.78	88.76	N/A	N/A
5190.00	75.63	PK	V	33.60	3.59	0.00	112.82	106.8	N/A	N/A
5190.00	64.95	AV	V	33.60	3.59	0.00	102.14	96.12	N/A	N/A
5150.00	33.20	PK	V	33.54	3.56	0.00	70.30	64.28	74.00	9.72
5150.00	19.72	AV	V	33.54	3.56	0.00	56.82	50.8	54.00	3.20
10380.00	40.25	PK	V	38.18	6.31	25.46	59.28	53.26	68.20	14.94
15570.00	37.65	PK	V	38.03	8.84	24.29	60.23	54.21	74.00	19.79
15570.00	26.12	AV	V	38.03	8.84	24.29	48.70	42.68	54.00	11.32
High Channel: 5230 MHz										
5230.00	67.26	PK	H	33.67	3.54	0.00	104.47	98.45	N/A	N/A
5230.00	58.45	AV	H	33.67	3.54	0.00	95.66	89.64	N/A	N/A
5230.00	74.85	PK	V	33.67	3.54	0.00	112.06	106.04	N/A	N/A
5230.00	65.32	AV	V	33.67	3.54	0.00	102.53	96.51	N/A	N/A
5350.00	27.67	PK	V	33.86	3.52	0.00	65.05	59.03	74.00	14.97
5350.00	16.63	AV	V	33.86	3.52	0.00	54.01	47.99	54.00	6.01
10460.00	40.17	PK	V	38.19	6.36	25.47	59.25	53.23	68.20	14.97
15690.00	37.54	PK	V	37.91	8.80	24.37	59.88	53.86	74.00	20.14
15690.00	26.04	AV	V	37.91	8.80	24.37	48.38	42.36	54.00	11.64

802.11ac vht20(2Tx mode was the worst):

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBµV/m)	Extrapolation result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)						
Low Channel: 5180 MHz										
5180.00	72.34	PK	H	33.59	3.58	0.00	109.51	103.486	N/A	N/A
5180.00	64.22	AV	H	33.59	3.58	0.00	101.39	95.37	N/A	N/A
5180.00	78.84	PK	V	33.59	3.58	0.00	116.01	109.99	N/A	N/A
5180.00	70.14	AV	V	33.59	3.58	0.00	107.31	101.29	N/A	N/A
5150.00	26.89	PK	V	33.54	3.56	0.00	63.99	57.97	74.00	16.03
5150.00	17.85	AV	V	33.54	3.56	0.00	54.95	48.93	54.00	5.07
10360.00	42.40	PK	V	38.17	6.29	25.46	61.40	55.38	68.20	12.82
15540.00	40.04	PK	V	38.06	8.85	24.27	62.68	56.66	74.00	17.34
15540.00	27.69	AV	V	38.06	8.85	24.27	50.33	44.31	54.00	9.69
Middle Channel: 5200 MHz										
5200.00	72.23	PK	H	33.62	3.60	0.00	109.45	103.43	N/A	N/A
5200.00	63.96	AV	H	33.62	3.60	0.00	101.18	95.16	N/A	N/A
5200.00	77.43	PK	V	33.62	3.60	0.00	114.65	108.63	N/A	N/A
5200.00	69.21	AV	V	33.62	3.60	0.00	106.43	100.41	N/A	N/A
10400.00	42.26	PK	V	38.18	6.32	25.46	61.30	55.28	68.20	12.92
15600.00	39.96	PK	V	38.00	8.83	24.31	62.48	56.46	74.00	17.54
15600.00	27.55	AV	V	38.00	8.83	24.31	50.07	44.05	54.00	9.95
High Channel: 5240 MHz										
5240.00	72.37	PK	H	33.68	3.52	0.00	109.57	103.55	N/A	N/A
5240.00	64.10	AV	H	33.68	3.52	0.00	101.30	95.28	N/A	N/A
5240.00	77.57	PK	V	33.68	3.52	0.00	114.77	108.75	N/A	N/A
5240.00	69.35	AV	V	33.68	3.52	0.00	106.55	100.53	N/A	N/A
5350.00	27.39	PK	V	33.86	3.52	0.00	64.77	58.75	74.00	15.25
5350.00	17.37	AV	V	33.86	3.52	0.00	54.75	48.73	54.00	5.27
10480.00	42.53	PK	V	38.20	6.37	25.47	61.63	55.61	68.20	12.59
15720.00	40.17	PK	V	37.88	8.79	24.39	62.45	56.43	74.00	17.57
15720.00	27.82	AV	V	37.88	8.79	24.39	50.10	44.08	54.00	9.92

802.11ac vht40(2Tx mode was the worst):

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBµV/m)	Extrapolation result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)						
Low Channel: 5190 MHz										
5190.00	69.09	PK	H	33.60	3.59	0.00	106.28	100.26	N/A	N/A
5190.00	61.22	AV	H	33.60	3.59	0.00	98.41	92.39	N/A	N/A
5190.00	75.24	PK	V	33.60	3.59	0.00	112.43	106.41	N/A	N/A
5190.00	67.04	AV	V	33.60	3.59	0.00	104.23	98.21	N/A	N/A
5150.00	33.96	PK	V	33.54	3.56	0.00	71.06	65.04	74.00	8.96
5150.00	20.84	AV	V	33.54	3.56	0.00	57.94	51.92	54.00	2.08
10380.00	40.37	PK	V	38.18	6.31	25.46	59.40	53.38	68.20	14.82
15570.00	37.28	PK	V	38.03	8.84	24.29	59.86	53.84	74.00	20.16
15570.00	26.07	AV	V	38.03	8.84	24.29	48.65	42.63	54.00	11.37
High Channel: 5230 MHz										
5230.00	69.12	PK	H	33.67	3.54	0.00	106.33	100.31	N/A	N/A
5230.00	60.27	AV	H	33.67	3.54	0.00	97.48	91.46	N/A	N/A
5230.00	75.21	PK	V	33.67	3.54	0.00	112.42	106.4	N/A	N/A
5230.00	66.80	AV	V	33.67	3.54	0.00	104.01	97.99	N/A	N/A
5350.00	26.96	PK	V	33.86	3.52	0.00	64.34	58.32	74.00	15.68
5350.00	17.41	AV	V	33.86	3.52	0.00	54.79	48.77	54.00	5.23
10460.00	40.57	PK	V	38.19	6.36	25.47	59.65	53.63	68.20	14.57
15690.00	37.44	PK	V	37.91	8.80	24.37	59.78	53.76	74.00	20.24
15690.00	26.23	AV	V	37.91	8.80	24.37	48.57	42.55	54.00	11.45

802.11ac vht80(2Tx mode was the worst):

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (Db)	Amplifier Gain (Db)	Corrected Amplitude (dBµV/m)	Extrapolation result (dBµV/m)	Limit (dBµV/m)	Margin (Db)
	Reading (dBµV)	Detector	Polar (H/V)	Factor (Db/m)						
Middle Channel: 5210 MHz										
5210.00	63.29	PK	H	33.64	3.58	0.00	100.51	94.49	N/A	N/A
5210.00	54.28	AV	H	33.64	3.58	0.00	91.50	85.48	N/A	N/A
5210.00	68.78	PK	V	33.64	3.58	0.00	106.00	99.98	N/A	N/A
5210.00	59.62	AV	V	33.64	3.58	0.00	96.84	90.82	N/A	N/A
5150.00	36.84	PK	V	33.54	3.56	0.00	73.94	67.92	74.00	6.08
5150.00	22.27	AV	V	33.54	3.56	0.00	59.37	53.35	54.00	0.65
5350.00	30.38	PK	V	33.86	3.52	0.00	67.76	61.74	74.00	12.26
5350.00	18.35	AV	V	33.86	3.52	0.00	55.73	49.71	54.00	4.29
10420.00	35.96	PK	V	38.18	6.33	25.47	55.00	48.98	68.20	19.22
15630.00	36.25	PK	V	37.97	8.82	24.33	58.71	52.69	74.00	21.31
15630.00	24.19	AV	V	37.97	8.82	24.33	46.65	40.63	54.00	13.37

**5725-5850MHz
802.11a, Chain 0**

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBµV/m)	Extrapolation result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)						
Low Channel: 5745 MHz										
5745.00	63.69	PK	H	34.20	3.69	0.00	101.58	95.56	N/A	N/A
5745.00	55.14	AV	H	34.20	3.69	0.00	93.03	87.01	N/A	N/A
5745.00	72.40	PK	V	34.20	3.69	0.00	110.29	104.27	N/A	N/A
5745.00	64.00	AV	V	34.20	3.69	0.00	101.89	95.87	N/A	N/A
5725.00	28.36	PK	V	34.19	3.69	0.00	66.24	60.22	122.20	61.98
5720.00	27.69	PK	V	34.19	3.69	0.00	65.57	59.55	110.80	51.25
5700.00	27.58	PK	V	34.18	3.68	0.00	65.44	59.42	105.20	45.78
5650.00	27.34	PK	V	34.16	3.63	0.00	65.13	59.11	68.20	9.09
11490.00	38.84	PK	V	38.99	6.59	25.51	58.91	52.89	74.00	21.11
11490.00	28.55	AV	V	38.99	6.59	25.51	48.62	42.6	54.00	11.40
17235.00	35.92	PK	V	41.56	8.78	23.72	62.54	56.52	68.20	11.68
Middle Channel: 5785 MHz										
5785.00	62.40	PK	H	34.21	3.71	0.00	100.32	94.3	N/A	N/A
5785.00	53.29	AV	H	34.21	3.71	0.00	91.21	85.19	N/A	N/A
5785.00	71.07	PK	V	34.21	3.71	0.00	108.99	102.97	N/A	N/A
5785.00	62.71	AV	V	34.21	3.71	0.00	100.63	94.61	N/A	N/A
11570.00	38.45	PK	V	39.00	6.61	25.46	58.60	52.58	74.00	21.42
11570.00	28.19	AV	V	39.00	6.61	25.46	48.34	42.32	54.00	11.68
17355.00	35.56	PK	V	42.26	8.81	23.60	63.03	57.01	68.20	11.19
High Channel: 5825 MHz										
5825.00	62.58	PK	H	34.23	3.73	0.00	100.54	94.52	N/A	N/A
5825.00	53.47	AV	H	34.23	3.73	0.00	91.43	85.41	N/A	N/A
5825.00	71.25	PK	V	34.23	3.73	0.00	109.21	103.19	N/A	N/A
5825.00	62.89	AV	V	34.23	3.73	0.00	100.85	94.83	N/A	N/A
5850.00	28.35	PK	V	34.24	3.75	0.00	66.34	60.32	122.20	61.88
5855.00	27.36	PK	V	34.24	3.75	0.00	65.35	59.33	110.80	51.47
5875.00	27.31	PK	V	34.25	3.77	0.00	65.33	59.31	105.20	45.89
5925.00	26.77	PK	V	34.27	3.80	0.00	64.84	58.82	68.20	9.38
11650.00	38.63	PK	V	39.00	6.64	25.41	58.86	52.84	74.00	21.16
11650.00	28.37	AV	V	39.00	6.64	25.41	48.60	42.58	54.00	11.42
17475.00	35.74	PK	V	42.96	8.84	23.48	64.06	58.04	68.20	10.16

Chain 1

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dB μ V/m)	Extrapolation result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector	Polar (H/V)	Factor (dB/m)						
Low Channel: 5745 MHz										
5745.00	64.58	PK	H	34.20	3.69	0.00	102.47	96.45	N/A	N/A
5745.00	56.74	AV	H	34.20	3.69	0.00	94.63	88.61	N/A	N/A
5745.00	72.81	PK	V	34.20	3.69	0.00	110.70	104.68	N/A	N/A
5745.00	64.47	AV	V	34.20	3.69	0.00	102.36	96.34	N/A	N/A
5725.00	30.96	PK	V	34.19	3.69	0.00	68.84	62.82	122.20	59.38
5720.00	28.65	PK	V	34.19	3.69	0.00	66.53	60.51	110.80	50.29
5700.00	28.57	PK	V	34.18	3.68	0.00	66.43	60.41	105.20	44.79
5650.00	27.41	PK	V	34.16	3.63	0.00	65.20	59.18	68.20	9.02
11490.00	37.35	PK	V	38.99	6.59	25.51	57.42	51.4	74.00	22.60
11490.00	27.56	AV	V	38.99	6.59	25.51	47.63	41.61	54.00	12.39
17235.00	35.77	PK	V	41.56	8.78	23.72	62.39	56.37	68.20	11.83
Middle Channel: 5785 MHz										
5785.00	64.16	PK	H	34.21	3.71	0.00	102.08	96.06	N/A	N/A
5785.00	56.32	AV	H	34.21	3.71	0.00	94.24	88.22	N/A	N/A
5785.00	72.39	PK	V	34.21	3.71	0.00	110.31	104.29	N/A	N/A
5785.00	64.05	AV	V	34.21	3.71	0.00	101.97	95.95	N/A	N/A
11570.00	36.84	PK	V	39.00	6.61	25.46	56.99	50.97	74.00	23.03
11570.00	27.07	AV	V	39.00	6.61	25.46	47.22	41.2	54.00	12.80
17355.00	35.26	PK	V	42.26	8.81	23.60	62.73	56.71	68.20	11.49
High Channel: 5825 MHz										
5825.00	62.68	PK	H	34.23	3.73	0.00	100.64	94.62	N/A	N/A
5825.00	53.28	AV	H	34.23	3.73	0.00	91.24	85.22	N/A	N/A
5825.00	71.96	PK	V	34.23	3.73	0.00	109.92	103.9	N/A	N/A
5825.00	62.74	AV	V	34.23	3.73	0.00	100.70	94.68	N/A	N/A
5850.00	28.63	PK	V	34.24	3.75	0.00	66.62	60.6	122.20	61.60
5855.00	28.17	PK	V	34.24	3.75	0.00	66.16	60.14	110.80	50.66
5875.00	27.23	PK	V	34.25	3.77	0.00	65.25	59.23	105.20	45.97
5925.00	26.74	PK	V	34.27	3.80	0.00	64.81	58.79	68.20	9.41
11650.00	37.26	PK	V	39.00	6.64	25.41	57.49	51.47	74.00	22.53
11650.00	27.48	AV	V	39.00	6.64	25.41	47.71	41.69	54.00	12.31
17475.00	35.68	PK	V	42.96	8.84	23.48	64.00	57.98	68.20	10.22

802.11n ht20(2Tx mode was the worst):

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBµV/m)	Extrapolation result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)						
Low Channel: 5745 MHz										
5745.00	71.25	PK	H	34.20	3.69	0.00	109.14	103.12	N/A	N/A
5745.00	60.28	AV	H	34.20	3.69	0.00	98.17	92.15	N/A	N/A
5745.00	80.44	PK	V	34.20	3.69	0.00	118.33	112.31	N/A	N/A
5745.00	69.96	AV	V	34.20	3.69	0.00	107.85	101.83	N/A	N/A
5725.00	43.11	PK	V	34.19	3.69	0.00	80.99	74.97	122.20	47.23
5720.00	38.39	PK	V	34.19	3.69	0.00	76.27	70.25	110.80	40.55
5700.00	27.68	PK	V	34.18	3.68	0.00	65.54	59.52	105.20	45.68
5650.00	26.89	PK	V	34.16	3.63	0.00	64.68	58.66	68.20	9.54
11490.00	42.86	PK	V	38.99	6.59	25.51	62.93	56.91	74.00	17.09
11490.00	31.39	AV	V	38.99	6.59	25.51	51.46	45.44	54.00	8.56
17235.00	35.66	PK	V	41.56	8.78	23.72	62.28	56.26	68.20	11.94
Middle Channel: 5785 MHz										
5785.00	71.03	PK	H	34.21	3.71	0.00	108.95	102.93	N/A	N/A
5785.00	60.09	AV	H	34.21	3.71	0.00	98.01	91.99	N/A	N/A
5785.00	80.25	PK	V	34.21	3.71	0.00	118.17	112.15	N/A	N/A
5785.00	69.77	AV	V	34.21	3.71	0.00	107.69	101.67	N/A	N/A
11570.00	42.49	PK	V	39.00	6.61	25.46	62.64	56.62	74.00	17.38
11570.00	31.02	AV	V	39.00	6.61	25.46	51.17	45.15	54.00	8.85
17355.00	35.29	PK	V	42.26	8.81	23.60	62.76	56.74	68.20	11.46
High Channel: 5825 MHz										
5825.00	70.63	PK	H	34.23	3.73	0.00	108.59	102.57	N/A	N/A
5825.00	61.08	AV	H	34.23	3.73	0.00	99.04	93.02	N/A	N/A
5825.00	79.91	PK	V	34.23	3.73	0.00	117.87	111.85	N/A	N/A
5825.00	70.04	AV	V	34.23	3.73	0.00	108.00	101.98	N/A	N/A
5850.00	38.26	PK	V	34.24	3.75	0.00	76.25	70.23	122.20	51.97
5855.00	35.66	PK	V	34.24	3.75	0.00	73.65	67.63	110.80	43.17
5875.00	29.10	PK	V	34.25	3.77	0.00	67.12	61.1	105.20	44.10
5925.00	28.01	PK	V	34.27	3.80	0.00	66.08	60.06	68.20	8.14
11650.00	42.68	PK	V	39.00	6.64	25.41	62.91	56.89	74.00	17.11
11650.00	31.29	AV	V	39.00	6.64	25.41	51.52	45.5	54.00	8.50
17475.00	35.48	PK	V	42.96	8.84	23.48	63.80	57.78	68.20	10.42

802.11n ht40(2Tx mode was the worst):

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBµV/m)	Extrapolation result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)						
Low Channel: 5755 MHz										
5755.00	68.26	PK	H	34.20	3.70	0.00	106.16	100.14	N/A	N/A
5755.00	58.67	AV	H	34.20	3.70	0.00	96.57	90.55	N/A	N/A
5755.00	78.75	PK	V	34.20	3.70	0.00	116.65	110.63	N/A	N/A
5755.00	68.84	AV	V	34.20	3.70	0.00	106.74	100.72	N/A	N/A
5725.00	53.33	PK	V	34.19	3.69	0.00	91.21	85.19	122.20	37.01
5720.00	51.17	PK	V	34.19	3.69	0.00	89.05	83.03	110.80	27.77
5700.00	38.48	PK	V	34.18	3.68	0.00	76.34	70.32	105.20	34.88
5650.00	26.78	PK	V	34.16	3.63	0.00	64.57	58.55	68.20	9.65
11510.00	37.26	PK	V	39.00	6.59	25.50	57.35	51.33	74.00	22.67
11510.00	26.11	AV	V	39.00	6.59	25.50	46.20	40.18	54.00	13.82
17265.00	35.43	PK	V	41.74	8.79	23.69	62.27	56.25	68.20	11.95
High Channel: 5795 MHz										
5795.00	68.24	PK	H	34.22	3.71	0.00	106.17	100.15	N/A	N/A
5795.00	58.36	AV	H	34.22	3.71	0.00	96.29	90.27	N/A	N/A
5795.00	78.43	PK	V	34.22	3.71	0.00	116.36	110.34	N/A	N/A
5795.00	68.81	AV	V	34.22	3.71	0.00	106.74	100.72	N/A	N/A
5850.00	37.13	PK	V	34.24	3.75	0.00	75.12	69.1	122.20	53.10
5855.00	34.80	PK	V	34.24	3.75	0.00	72.79	66.77	110.80	44.03
5875.00	28.79	PK	V	34.25	3.77	0.00	66.81	60.79	105.20	44.41
5925.00	27.83	PK	V	34.27	3.80	0.00	65.90	59.88	68.20	8.32
11590.00	37.49	PK	V	39.00	6.62	25.45	57.66	51.64	74.00	22.36
11590.00	25.84	AV	V	39.00	6.62	25.45	46.01	39.99	54.00	14.01
17385.00	35.64	PK	V	42.43	8.82	23.57	63.32	57.3	68.20	10.90

802.11ac vht20(2Tx mode was the worst):

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBµV/m)	Extrapolation result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)						
Low Channel: 5745 MHz										
5745.00	70.63	PK	H	34.20	3.69	0.00	108.52	102.5	N/A	N/A
5745.00	60.50	AV	H	34.20	3.69	0.00	98.39	92.37	N/A	N/A
5745.00	80.59	PK	V	34.20	3.69	0.00	118.48	112.46	N/A	N/A
5745.00	69.45	AV	V	34.20	3.69	0.00	107.34	101.32	N/A	N/A
5725.00	43.39	PK	V	34.19	3.69	0.00	81.27	75.25	122.20	46.95
5720.00	38.25	PK	V	34.19	3.69	0.00	76.13	70.11	110.80	40.69
5700.00	27.42	PK	V	34.18	3.68	0.00	65.28	59.26	105.20	45.94
5650.00	26.75	PK	V	34.16	3.63	0.00	64.54	58.52	68.20	9.68
11490.00	42.90	PK	V	38.99	6.59	25.51	62.97	56.95	74.00	17.05
11490.00	32.39	AV	V	38.99	6.59	25.51	52.46	46.44	54.00	7.56
17235.00	34.78	PK	V	41.56	8.78	23.72	61.40	55.38	68.20	12.82
Middle Channel: 5785 MHz										
5785.00	71.56	PK	H	34.21	3.71	0.00	109.48	103.46	N/A	N/A
5785.00	59.14	AV	H	34.21	3.71	0.00	97.06	91.04	N/A	N/A
5785.00	80.30	PK	V	34.21	3.71	0.00	118.22	112.2	N/A	N/A
5785.00	70.27	AV	V	34.21	3.71	0.00	108.19	102.17	N/A	N/A
11570.00	43.19	PK	V	39.00	6.61	25.46	63.34	57.32	74.00	16.68
11570.00	31.71	AV	V	39.00	6.61	25.46	51.86	45.84	54.00	8.16
17355.00	36.28	PK	V	42.26	8.81	23.60	63.75	57.73	68.20	10.47
High Channel: 5825 MHz										
5825.00	70.03	PK	H	34.23	3.73	0.00	107.99	101.97	N/A	N/A
5825.00	61.68	AV	H	34.23	3.73	0.00	99.64	93.62	N/A	N/A
5825.00	79.08	PK	V	34.23	3.73	0.00	117.04	111.02	N/A	N/A
5825.00	70.38	AV	V	34.23	3.73	0.00	108.34	102.32	N/A	N/A
5850.00	38.42	PK	V	34.24	3.75	0.00	76.41	70.39	122.20	51.81
5855.00	35.40	PK	V	34.24	3.75	0.00	73.39	67.37	110.80	43.43
5875.00	28.70	PK	V	34.25	3.77	0.00	66.72	60.7	105.20	44.50
5925.00	28.56	PK	V	34.27	3.80	0.00	66.63	60.61	68.20	7.59
11650.00	43.49	PK	V	39.00	6.64	25.41	63.72	57.7	74.00	16.30
11650.00	31.62	AV	V	39.00	6.64	25.41	51.85	45.83	54.00	8.17
17475.00	35.83	PK	V	42.96	8.84	23.48	64.15	58.13	68.20	10.07

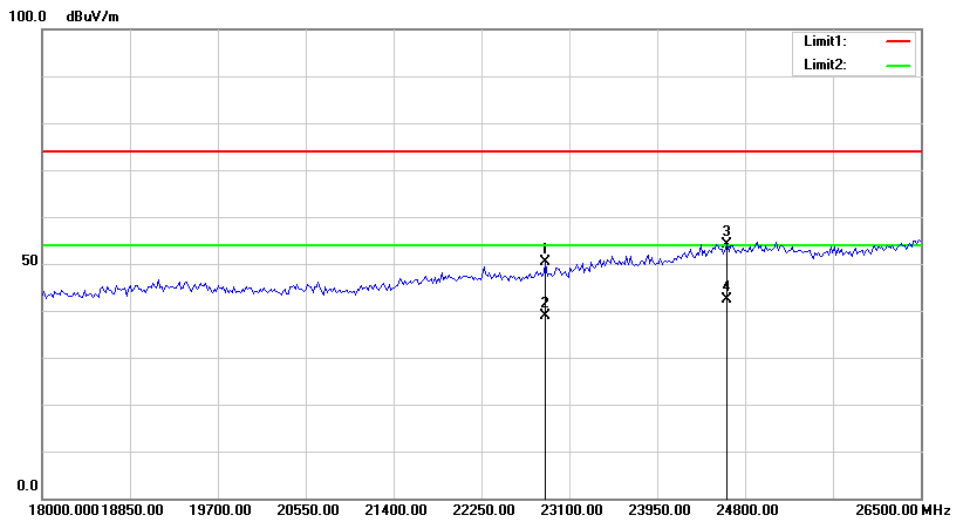
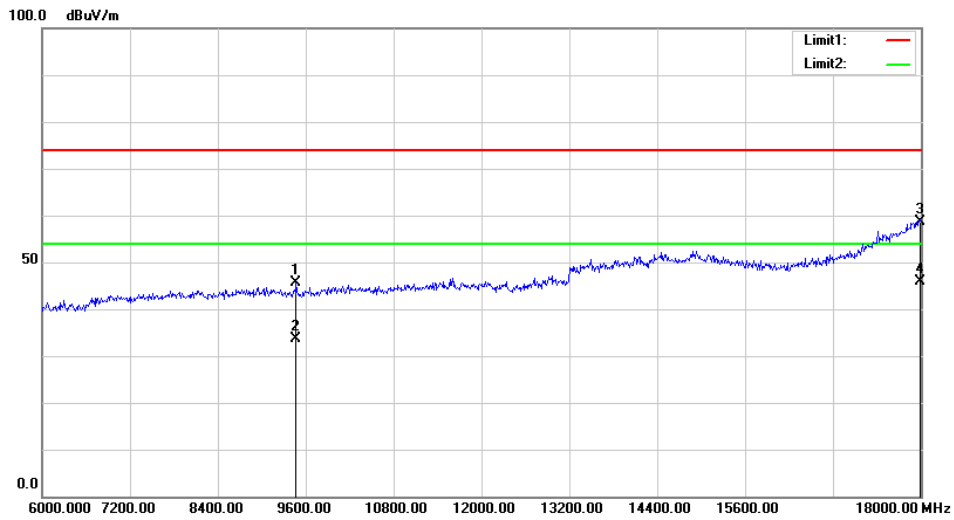
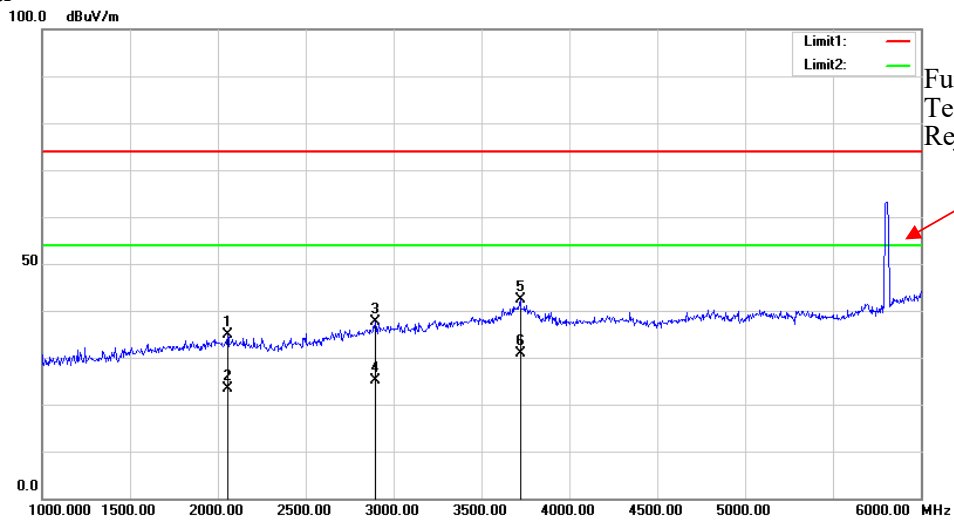
802.11ac vht40(2Tx mode was the worst):

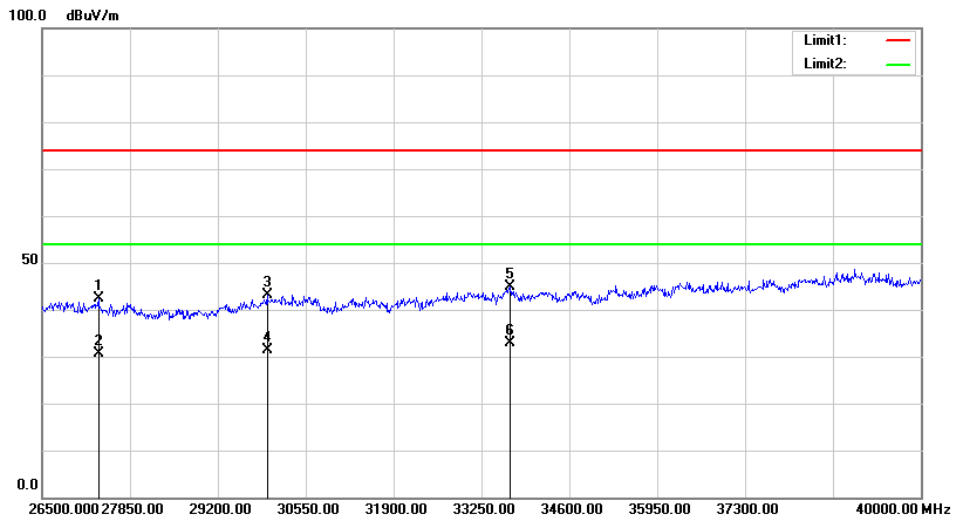
Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBµV/m)	Extrapolation result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)						
Low Channel: 5755 MHz										
5755.00	68.76	PK	H	34.20	3.70	0.00	106.66	100.64	N/A	N/A
5755.00	59.64	AV	H	34.20	3.70	0.00	97.54	91.52	N/A	N/A
5755.00	79.44	PK	V	34.20	3.70	0.00	117.34	111.32	N/A	N/A
5755.00	69.47	AV	V	34.20	3.70	0.00	107.37	101.35	N/A	N/A
5725.00	54.20	PK	V	34.19	3.69	0.00	92.08	86.06	122.20	36.14
5720.00	51.11	PK	V	34.19	3.69	0.00	88.99	82.97	110.80	27.83
5700.00	39.13	PK	V	34.18	3.68	0.00	76.99	70.97	105.20	34.23
5650.00	27.51	PK	V	34.16	3.63	0.00	65.30	59.28	68.20	8.92
11510.00	36.52	PK	V	39.00	6.59	25.50	56.61	50.59	74.00	23.41
11510.00	27.05	AV	V	39.00	6.59	25.50	47.14	41.12	54.00	12.88
17265.00	36.22	PK	V	41.74	8.79	23.69	63.06	57.04	68.20	11.16
High Channel: 5795 MHz										
5795.00	68.46	PK	H	34.22	3.71	0.00	106.39	100.37	N/A	N/A
5795.00	57.95	AV	H	34.22	3.71	0.00	95.88	89.86	N/A	N/A
5795.00	78.85	PK	V	34.22	3.71	0.00	116.78	110.76	N/A	N/A
5795.00	69.30	AV	V	34.22	3.71	0.00	107.23	101.21	N/A	N/A
5850.00	37.93	PK	V	34.24	3.75	0.00	75.92	69.9	122.20	52.30
5855.00	35.46	PK	V	34.24	3.75	0.00	73.45	67.43	110.80	43.37
5875.00	28.44	PK	V	34.25	3.77	0.00	66.46	60.44	105.20	44.76
5925.00	28.63	PK	V	34.27	3.80	0.00	66.70	60.68	68.20	7.52
11590.00	37.24	PK	V	39.00	6.62	25.45	57.41	51.39	74.00	22.61
11590.00	25.64	AV	V	39.00	6.62	25.45	45.81	39.79	54.00	14.21
17385.00	36.03	PK	V	42.43	8.82	23.57	63.71	57.69	68.20	10.51

802.11ac vht80(2Tx mode was the worst):

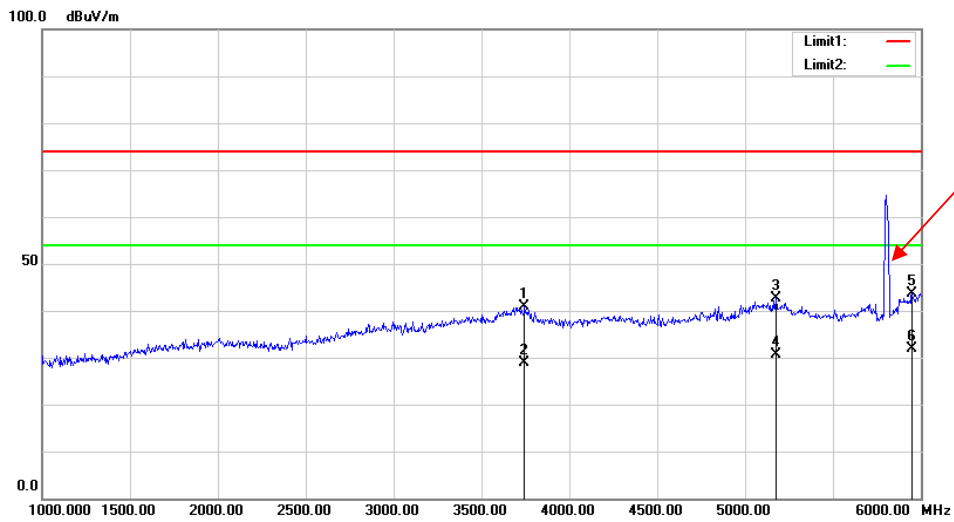
Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBµV/m)	Extrapolation result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)						
Middle Channel: 5775 MHz										
5775.00	63.88	PK	H	34.21	3.70	0.00	101.79	95.77	N/A	N/A
5775.00	54.12	AV	H	34.21	3.70	0.00	92.03	86.01	N/A	N/A
5775.00	72.61	PK	V	34.21	3.70	0.00	110.52	104.5	N/A	N/A
5775.00	62.84	AV	V	34.21	3.70	0.00	100.75	94.73	N/A	N/A
5725.00	35.53	PK	V	34.19	3.69	0.00	73.41	67.39	122.20	54.81
5720.00	32.15	PK	V	34.19	3.69	0.00	70.03	64.01	110.80	46.79
5700.00	34.46	PK	V	34.18	3.68	0.00	72.32	66.3	105.20	38.90
5650.00	28.68	PK	V	34.16	3.63	0.00	66.47	60.45	68.20	7.75
5850.00	35.02	PK	V	34.24	3.75	0.00	73.01	66.99	122.20	55.21
5855.00	30.36	PK	V	34.24	3.75	0.00	68.35	62.33	110.80	48.47
5875.00	28.81	PK	V	34.25	3.77	0.00	66.83	60.81	105.20	44.39
5925.00	28.54	PK	V	34.27	3.80	0.00	66.61	60.59	68.20	7.61
11550.00	38.26	PK	V	39.00	6.61	25.48	58.39	52.37	74.00	21.63
11550.00	26.47	AV	V	39.00	6.61	25.48	46.60	40.58	54.00	13.42
17325.00	35.81	PK	V	42.09	8.80	23.63	63.07	57.05	68.20	11.15

**Test Plots(802.11ac vht20 2Tx 5745MHz was the worst)
Horizontal**

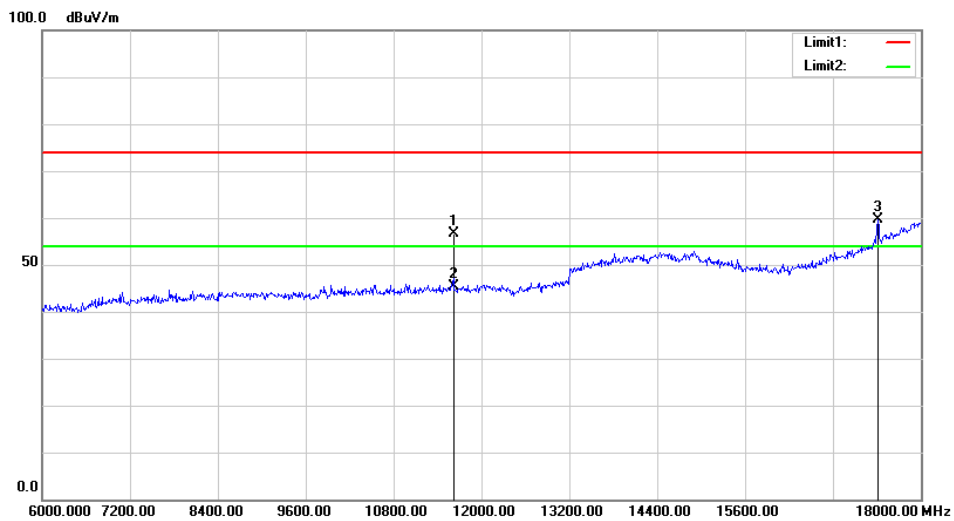


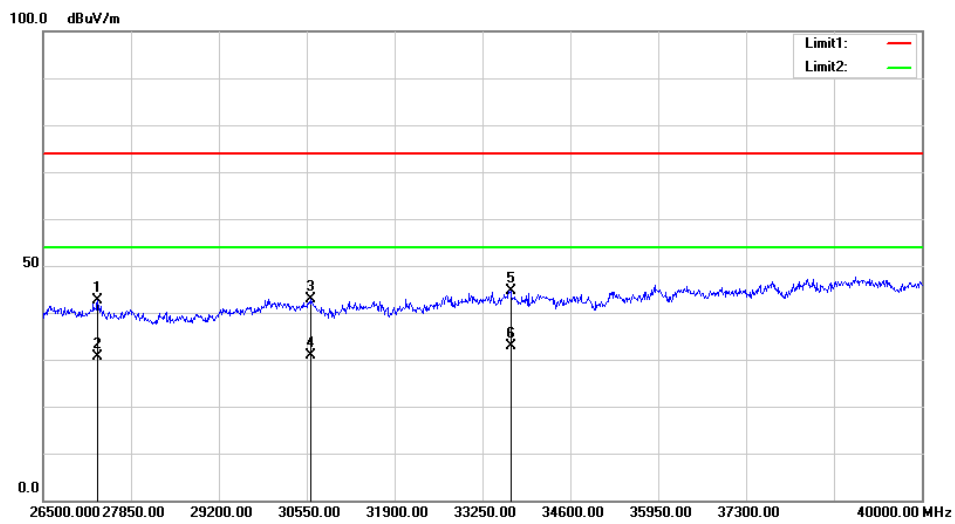
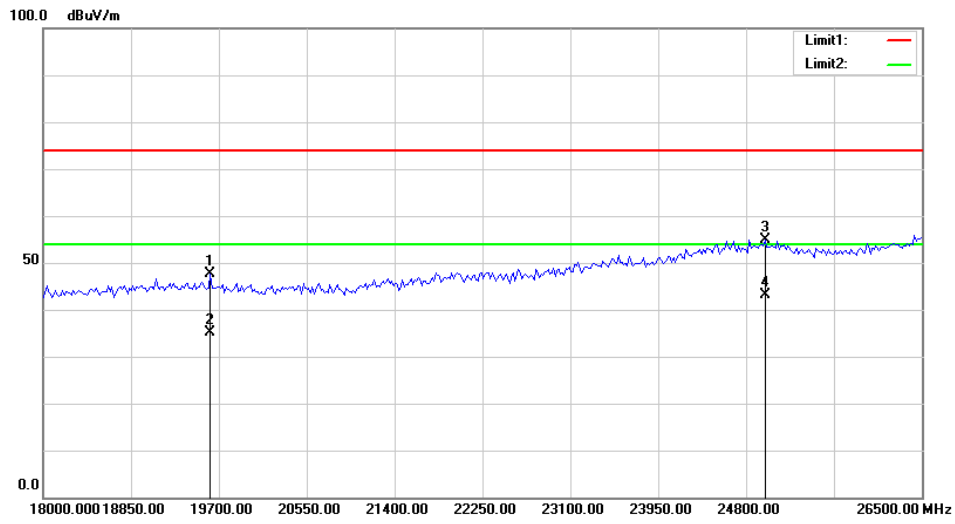


Vertical



Fundamental Test with Band Rejection Filter





FCC §15.407(a)(e)–EMISSION BANDWIDTH AND OCCUPIED BANDWIDTH

Applicable Standard

15.407(a) (e).

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2021-07-22	2022-07-21
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A

* *Statement of Traceability:* Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01

Test Data

Environmental Conditions

Temperature:	27.6~29.4 °C
Relative Humidity:	47~52 %
ATM Pressure:	100.3~100.4 kPa
Test by:	Wayne Wei
Test Date:	2021-08-03~2021-09-13

Test Result: Pass.

Please refer to the following tables and plots.

Test mode: Transmitting (test was only performed at chain 0)

5150-5250MHz:

Mode	Frequency (MHz)	26 dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
802.11 a	5180	18.960	16.447
	5200	18.880	16.447
	5240	18.960	16.447
802.11n ht20	5180	19.840	17.565
	5200	19.760	17.565
	5240	19.760	17.565
802.11n ht40	5190	39.040	36.567
	5230	39.040	36.407
802.11ac vht20	5180	19.760	17.804
	5200	19.760	17.804
	5240	19.760	17.804
802.11ac vht40	5190	40.640	37.046
	5230	40.960	37.046
802.11ac vht80	5210	82.240	75.050

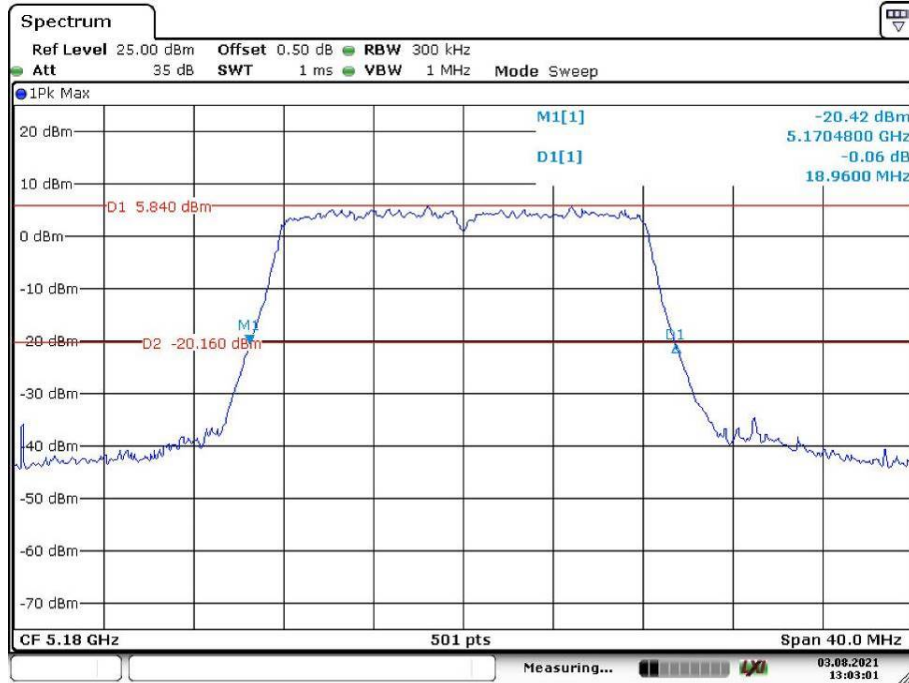
5725-5850MHz:

Mode	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
802.11 a	5745	16.160	16.447
	5785	16.000	16.447
	5825	16.000	16.447
802.11n ht20	5745	17.600	17.565
	5785	17.440	17.565
	5825	17.440	17.565
802.11n ht40	5755	36.480	36.727
	5795	36.480	36.567
802.11ac vht20	5745	17.440	17.804
	5785	17.360	17.804
	5825	17.360	17.804
802.11ac vht40	5755	35.840	37.046
	5795	35.680	37.046
802.11ac vht80	5775	75.840	75.369

Note: the 99% Occupied Bandwidth have not fall into the band 5250-5350MHz or 5470-5725MHz, please refer to the test plots of 99% Occupied Bandwidth.

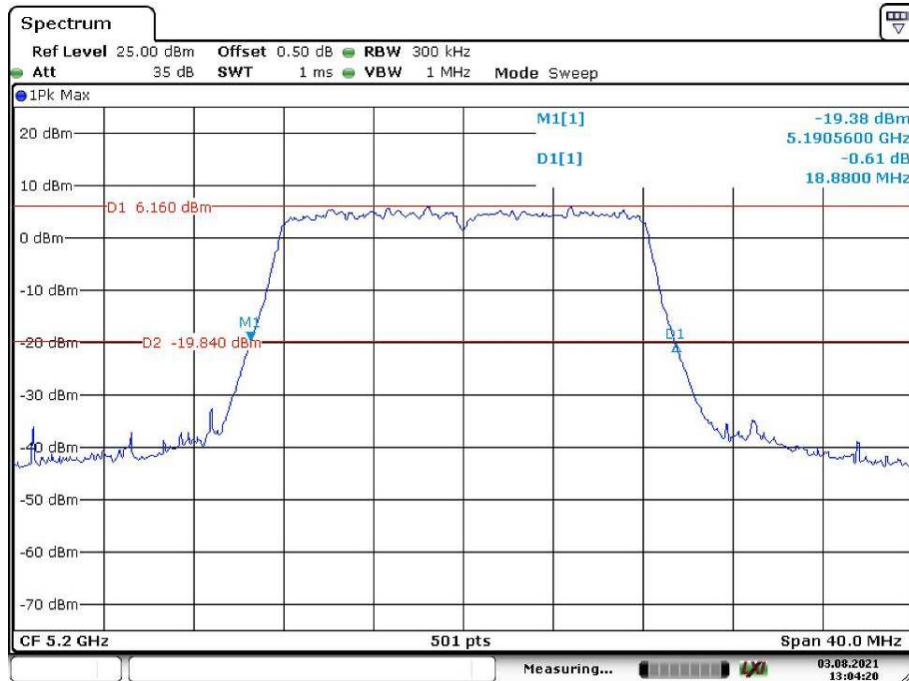
**5150-5250MHz:
26dB Emission Bandwidth:**

802.11a Low Channel



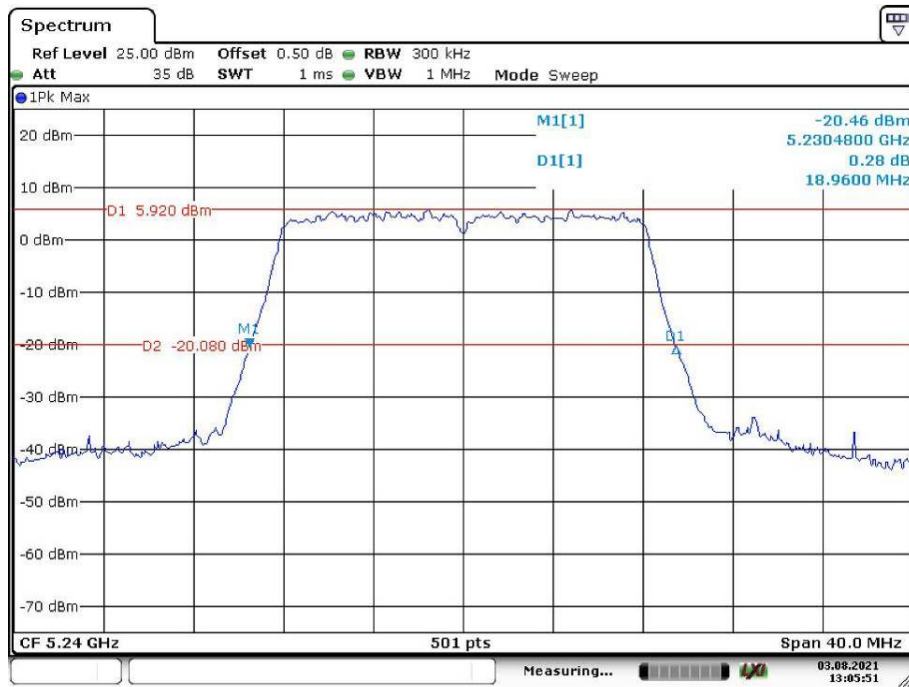
Date: 3.AUG.2021 13:03:01

802.11a Middle Channel



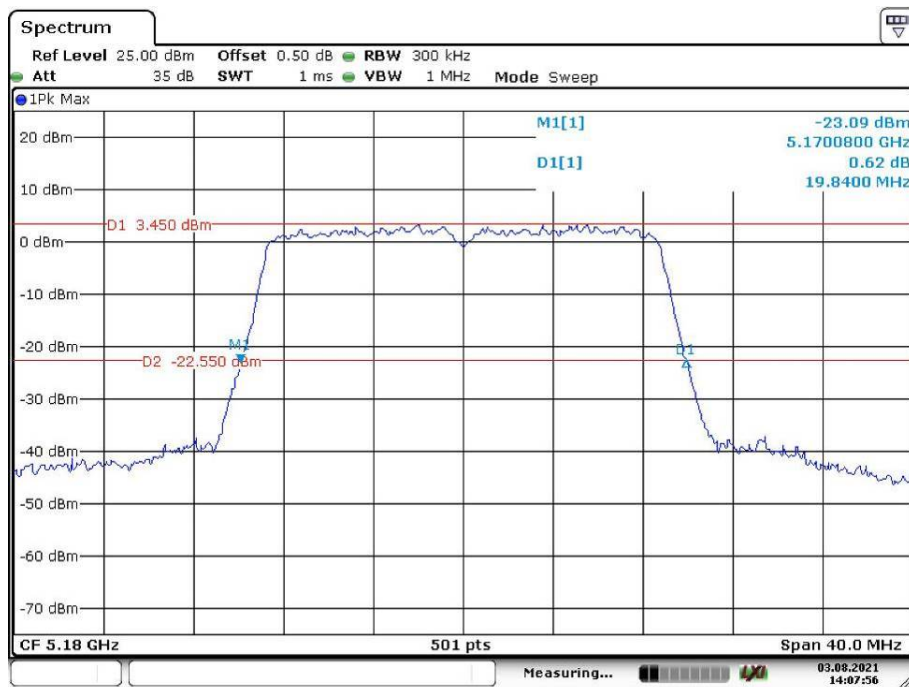
Date: 3.AUG.2021 13:04:20

802.11a High Channel



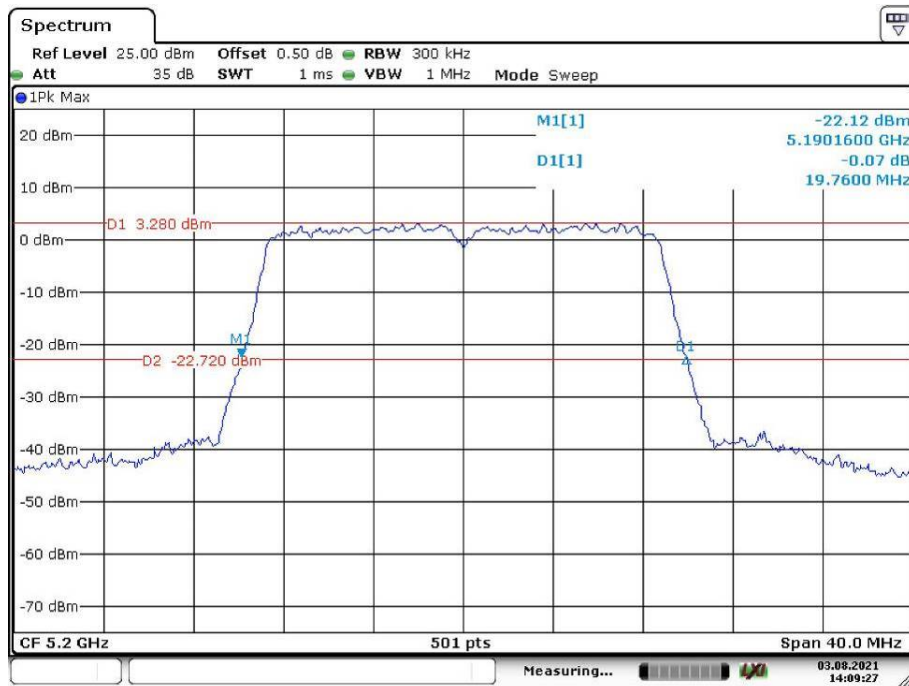
Date: 3.AUG.2021 13:05:51

802.11n ht20 Low Channel



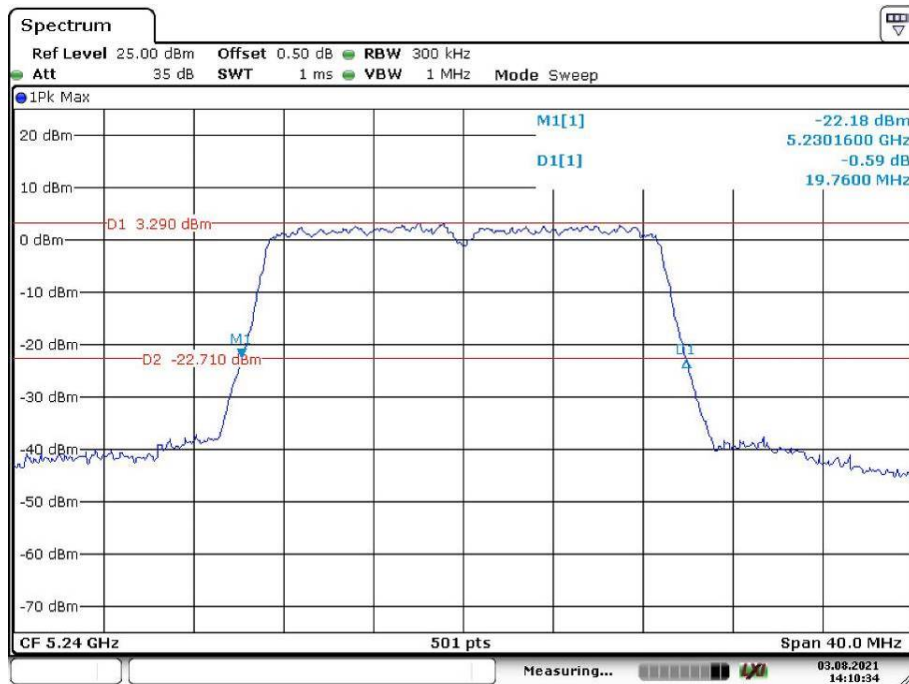
Date: 3.AUG.2021 14:07:56

802.11n ht20 Middle Channel



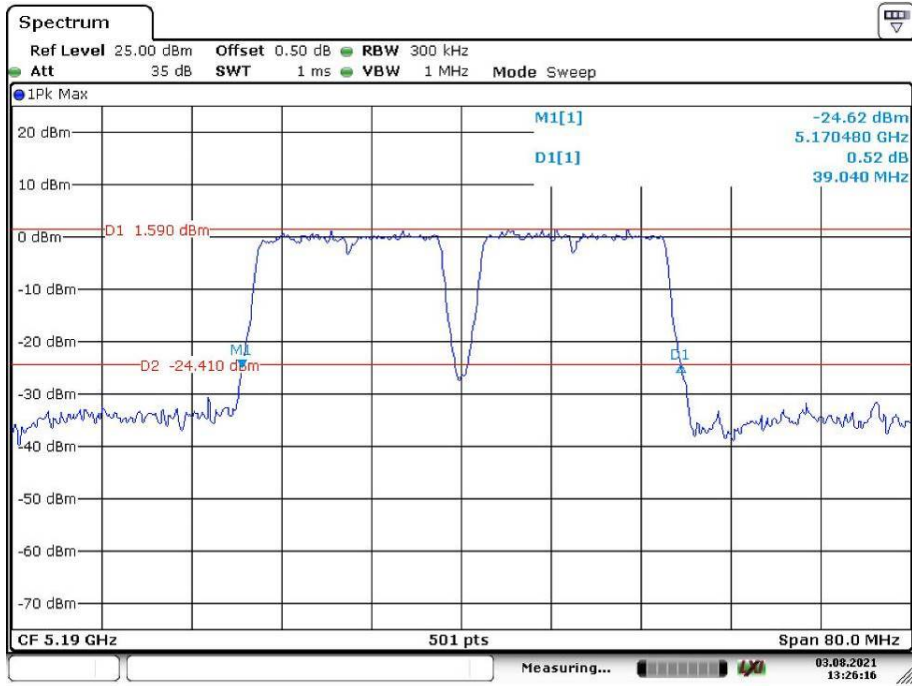
Date: 3.AUG.2021 14:09:27

802.11n ht20 High Channel

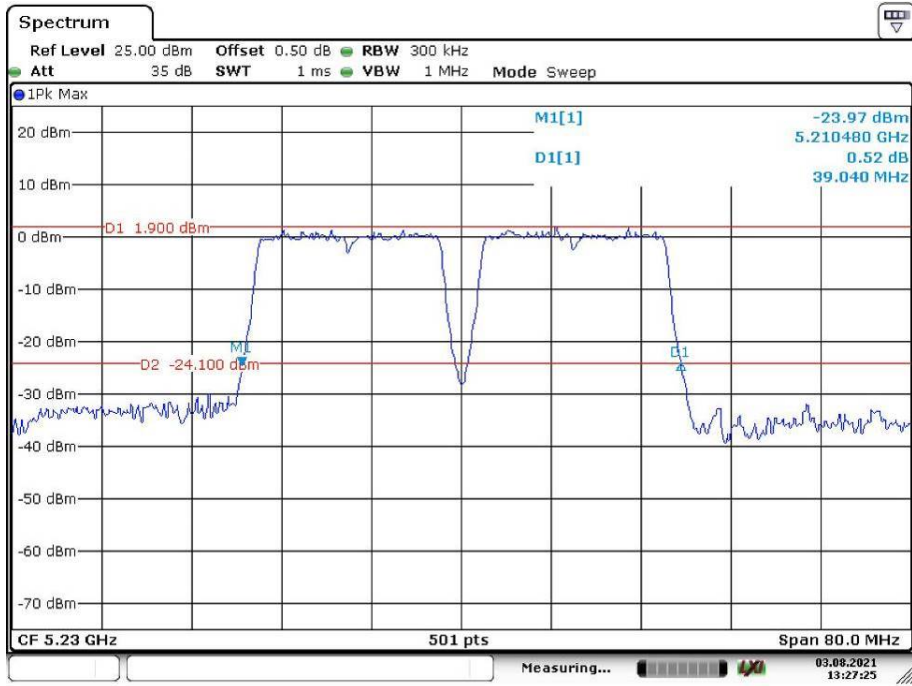


Date: 3.AUG.2021 14:10:34

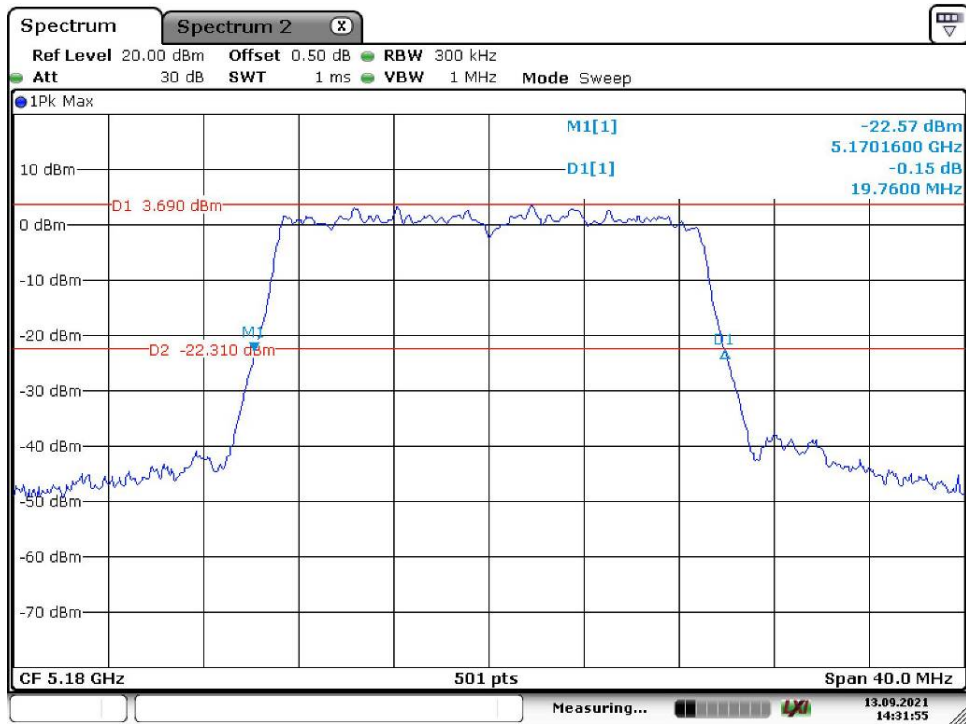
802.11n ht40 Low Channel



802.11n ht40 High Channel

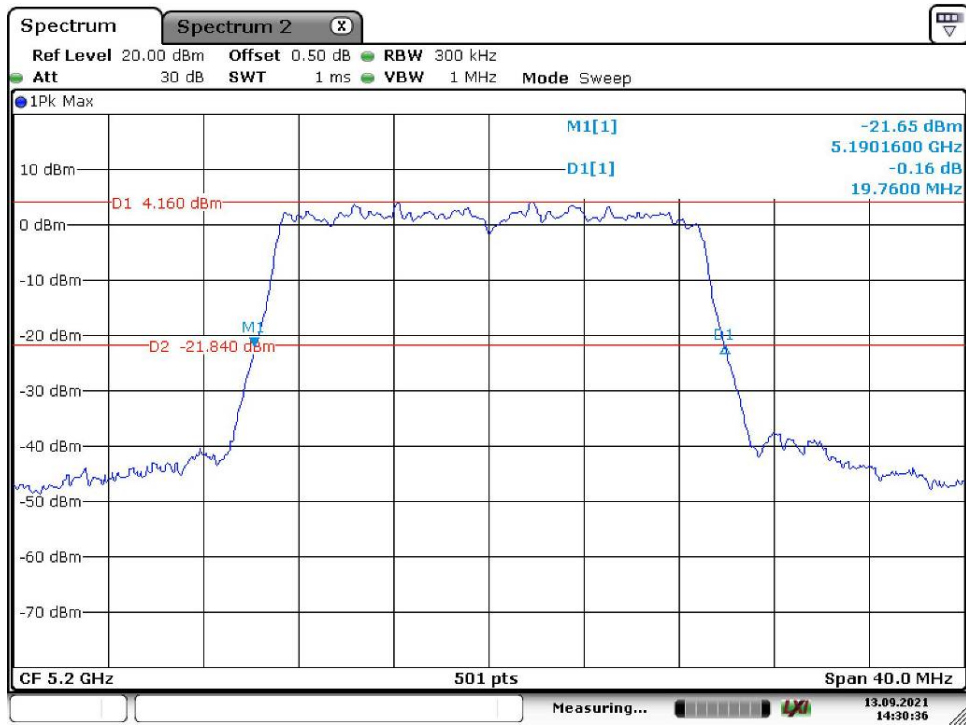


802.11ac vht20 Low Channel



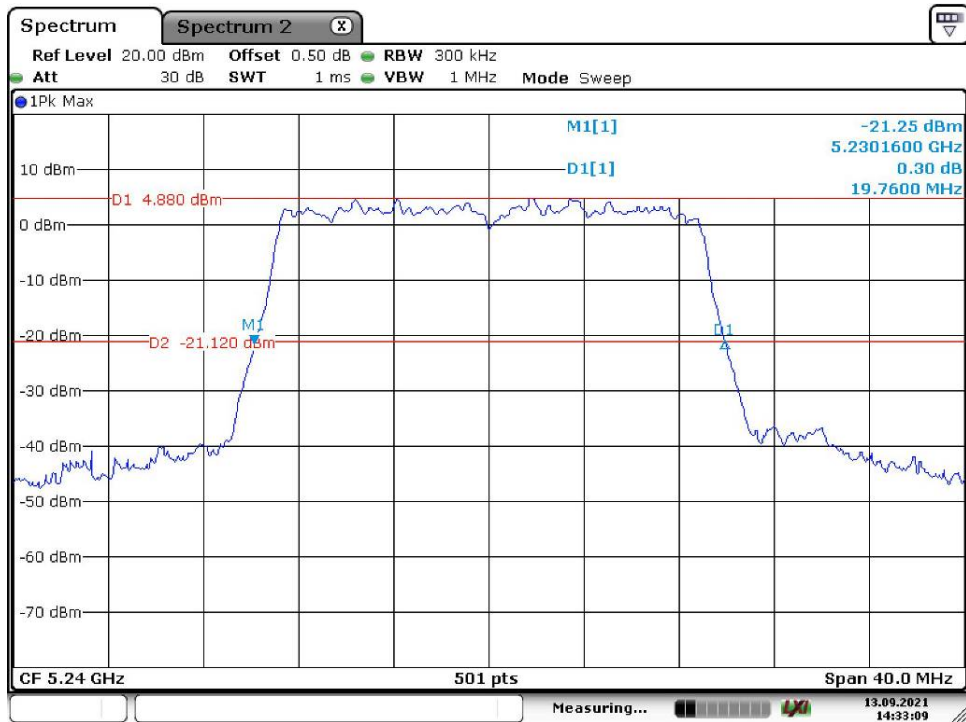
Date: 13.SEP.2021 14:31:55

802.11ac vht20 Middle Channel



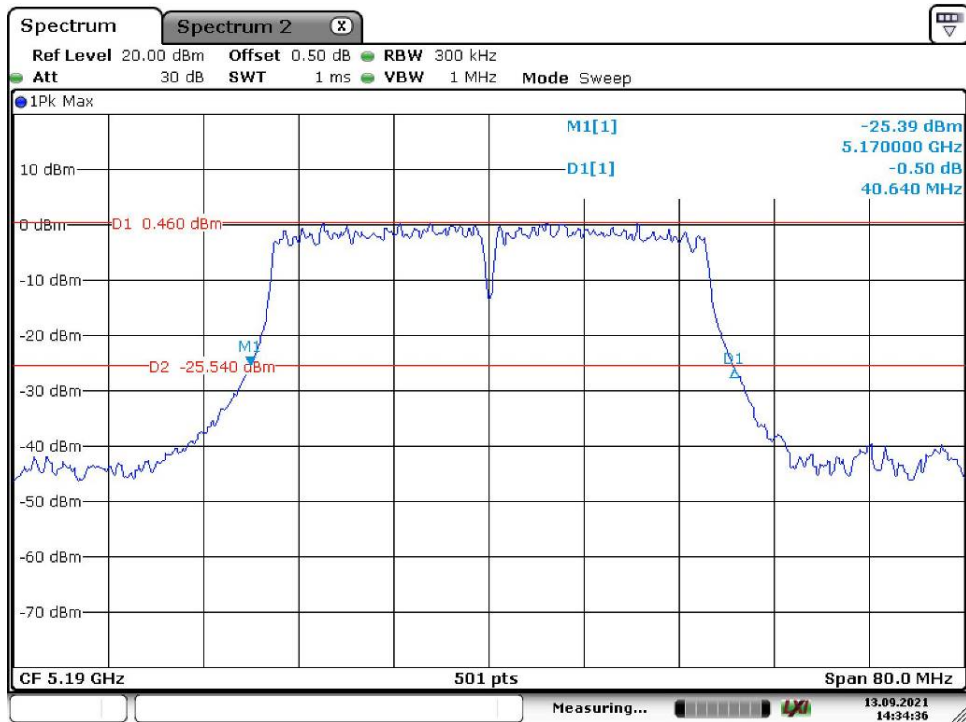
Date: 13.SEP.2021 14:30:36

802.11ac vht20 High Channel



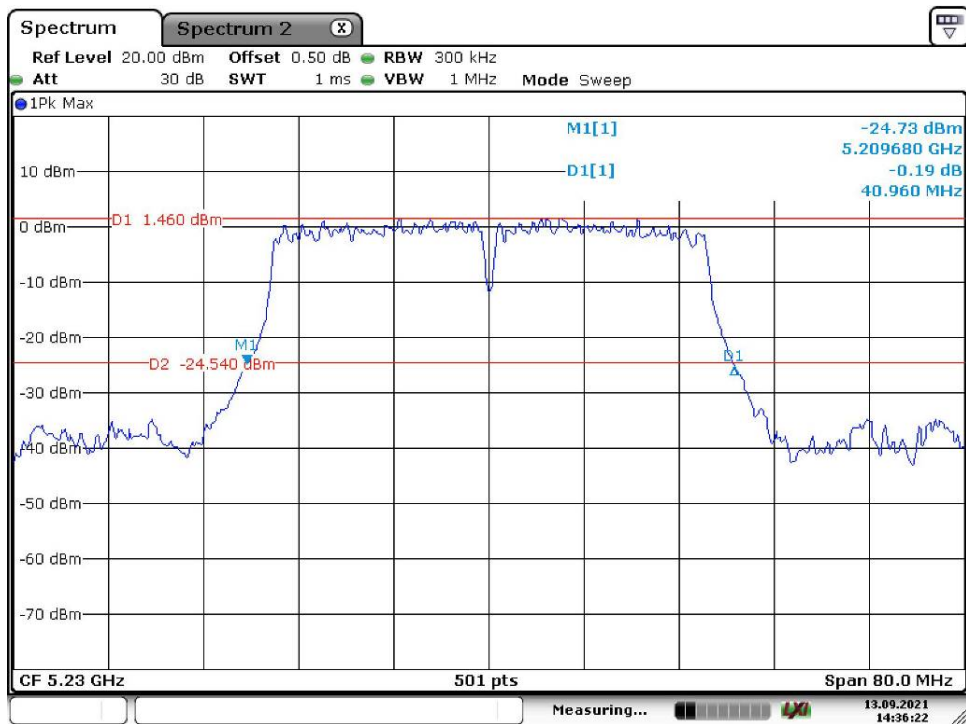
Date: 13.SEP.2021 14:33:09

802.11ac vht40 Low Channel



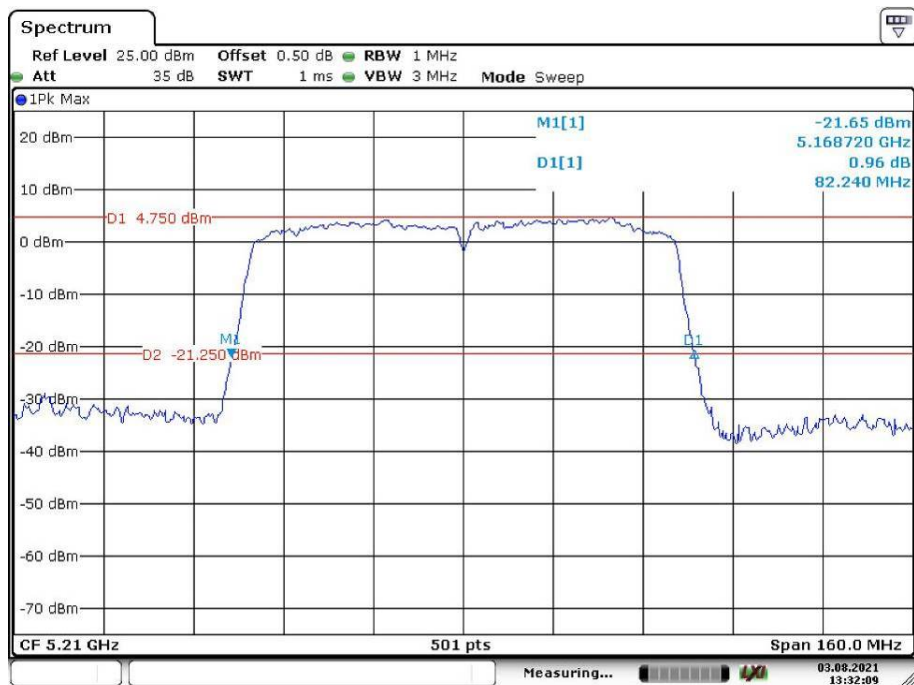
Date: 13.SEP.2021 14:34:36

802.11ac vht40 High Channel



Date: 13.SEP.2021 14:36:22

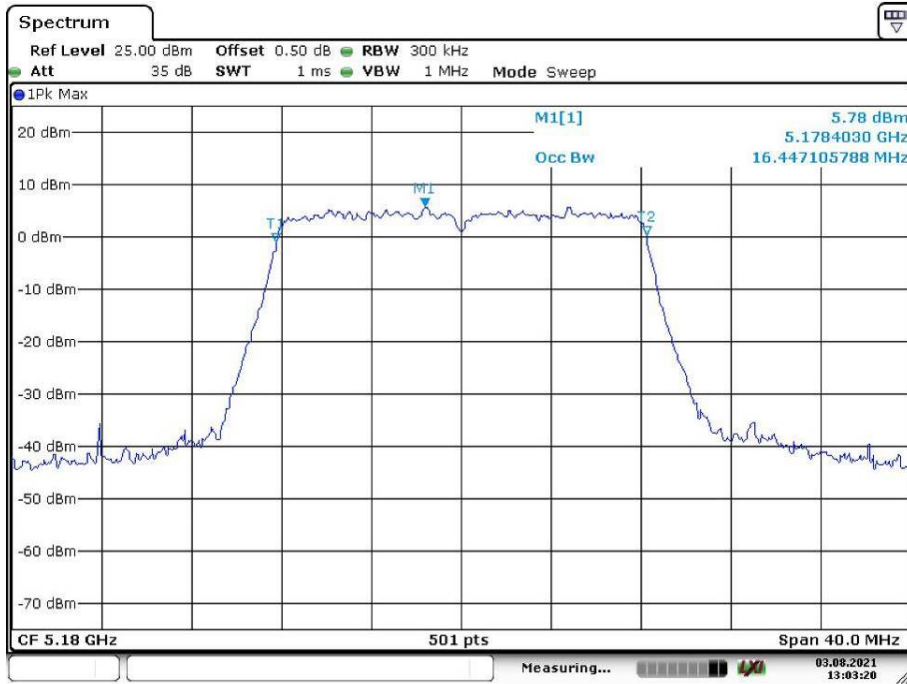
802.11ac vht80 Middle Channel



Date: 3.AUG.2021 13:32:09

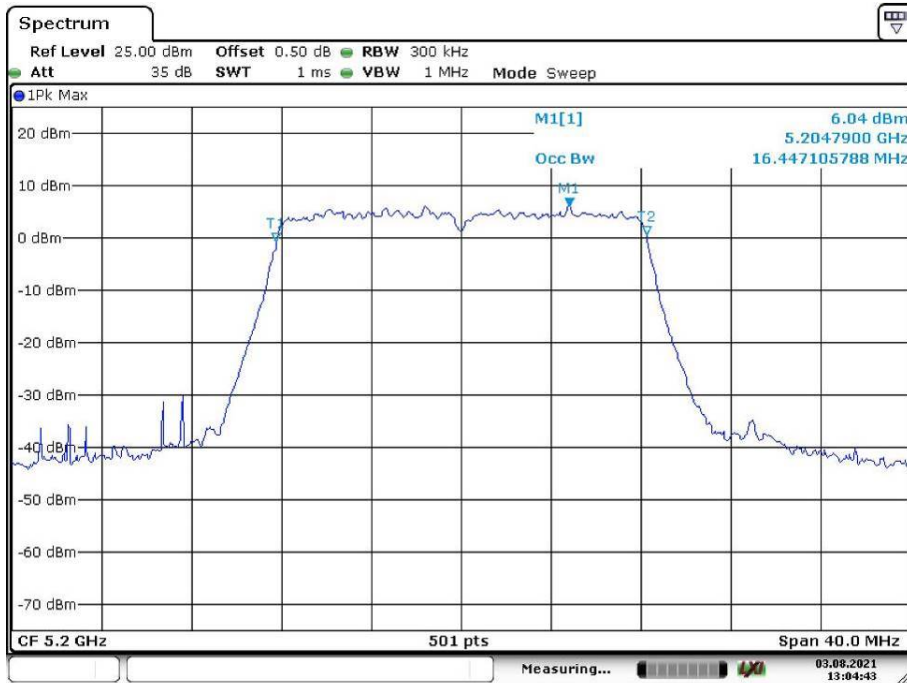
99% Occupied Bandwidth:

802.11a Low Channel



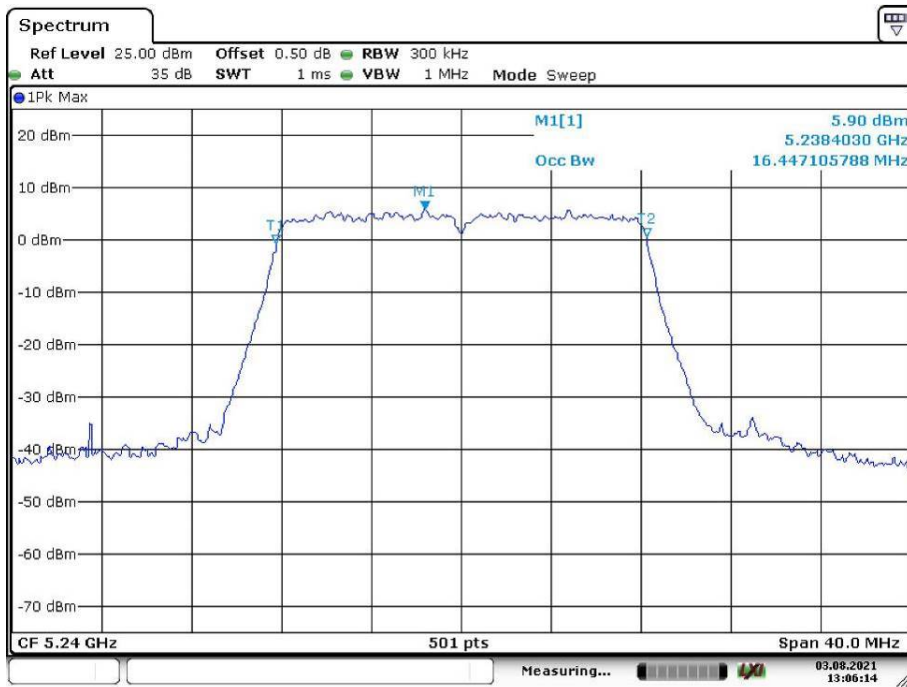
Date: 3.AUG.2021 13:03:20

802.11a Middle Channel



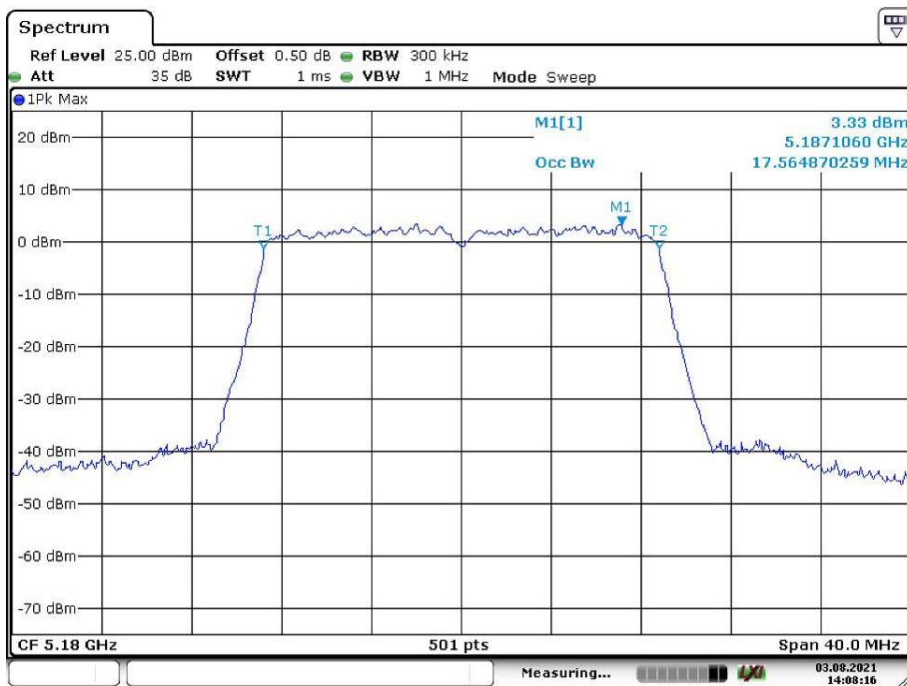
Date: 3.AUG.2021 13:04:43

802.11a High Channel



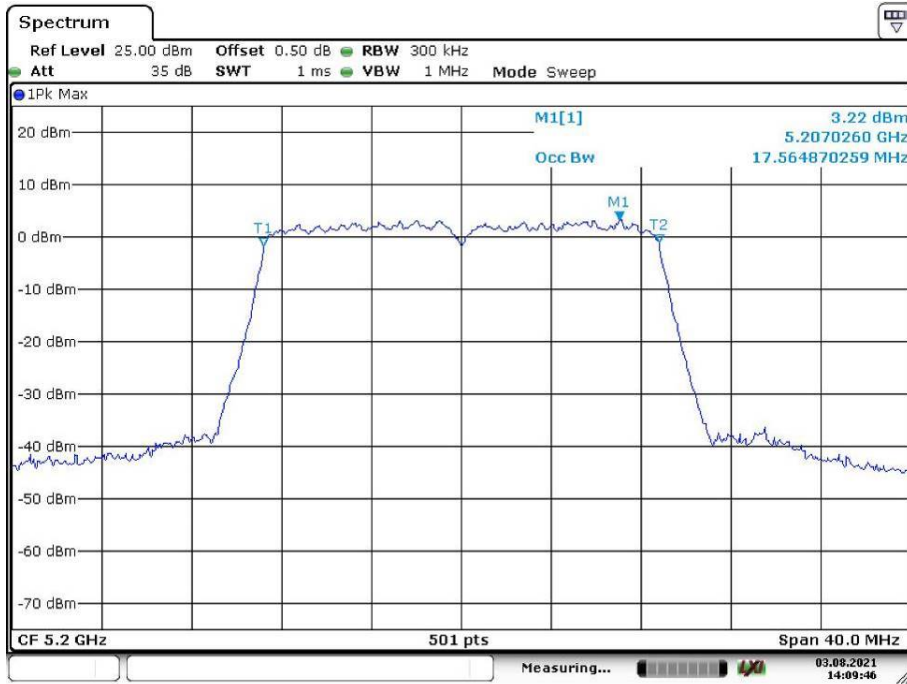
Date: 3.AUG.2021 13:06:14

802.11n ht20 Low Channel



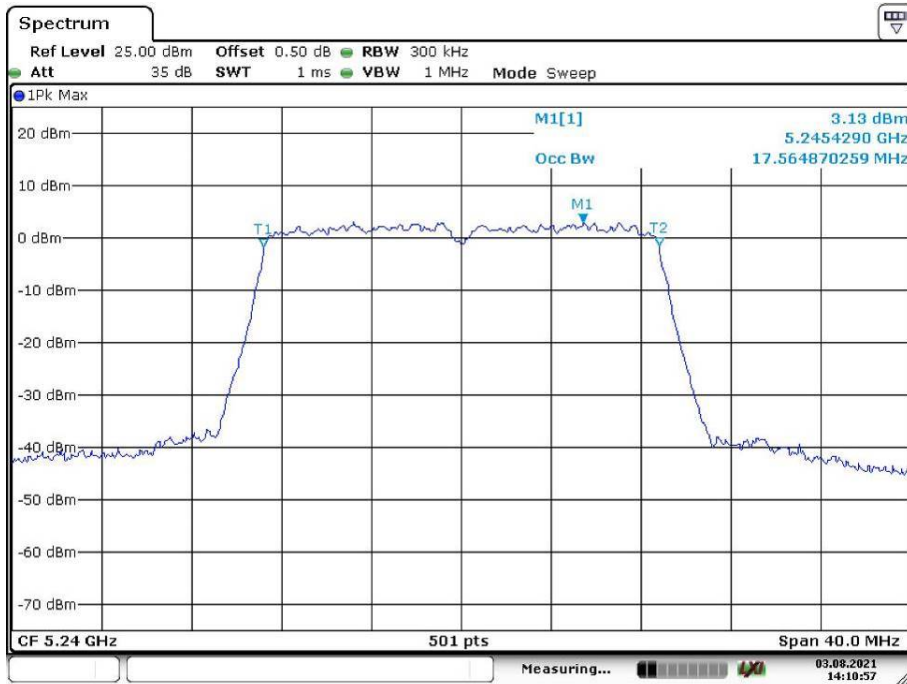
Date: 3.AUG.2021 14:08:16

802.11n ht20 Middle Channel



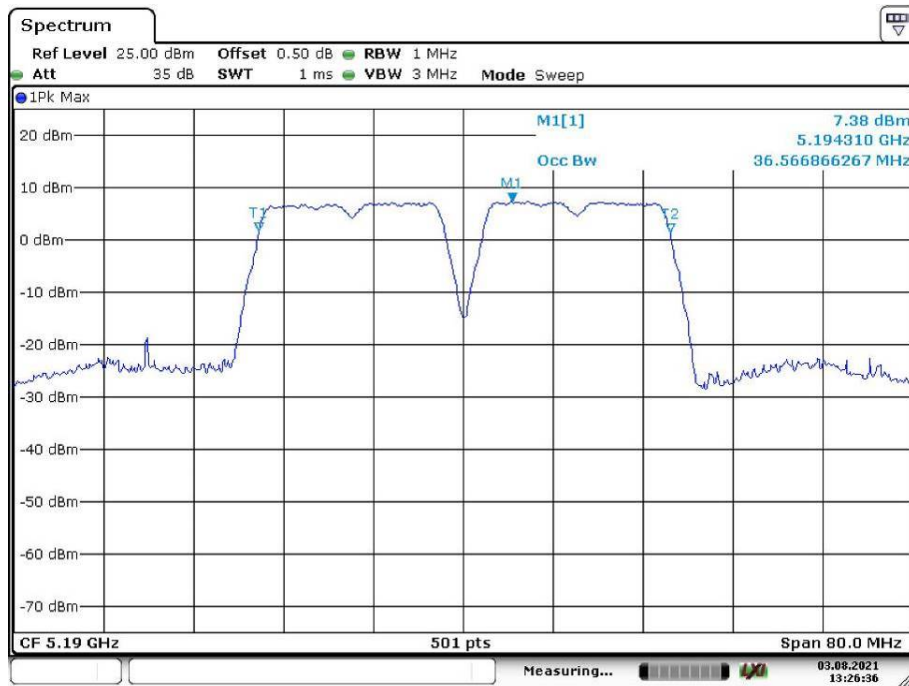
Date: 3.AUG.2021 14:09:46

802.11n ht20 High Channel

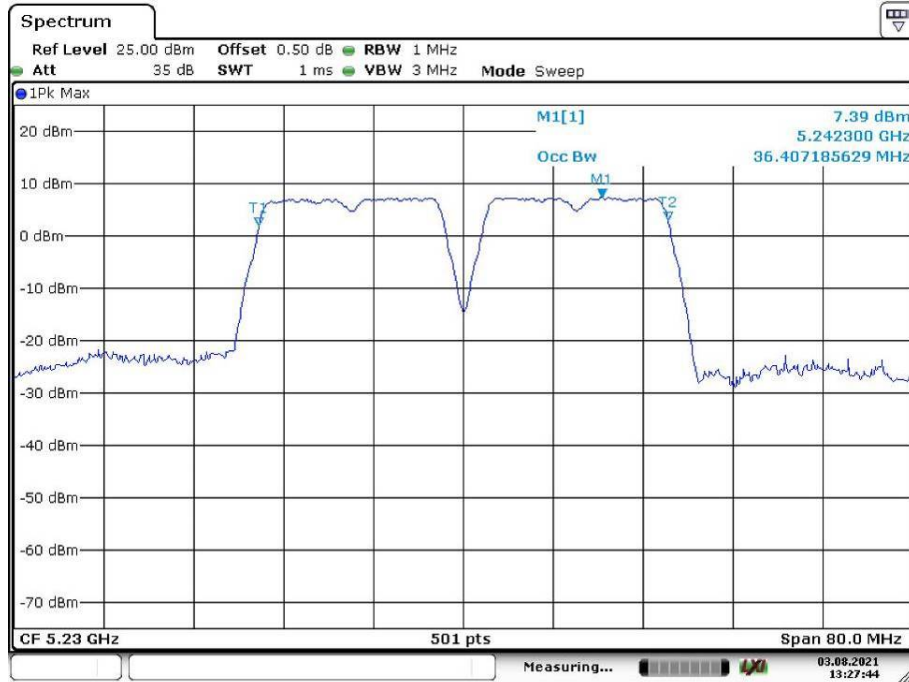


Date: 3.AUG.2021 14:10:57

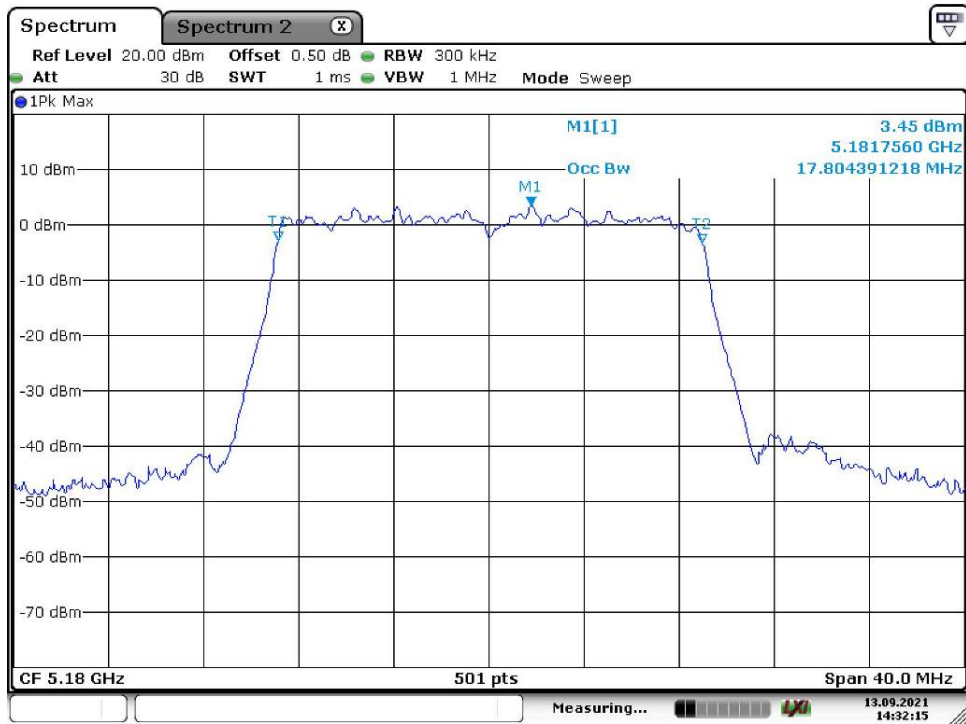
802.11n ht40 Low Channel



802.11n ht40 High Channel

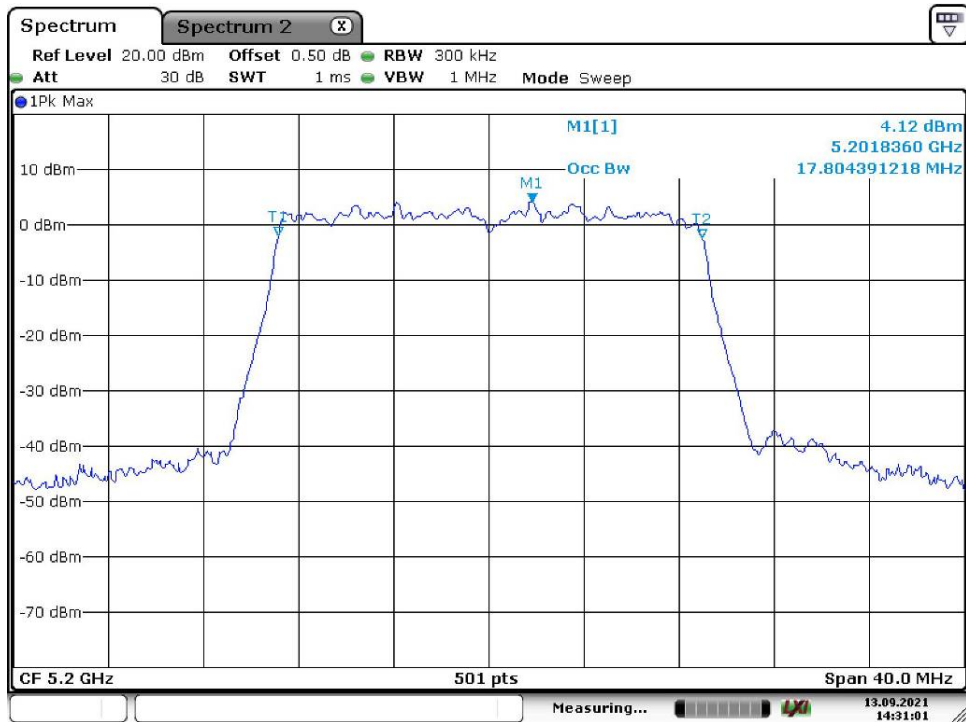


802.11ac vht20 Low Channel



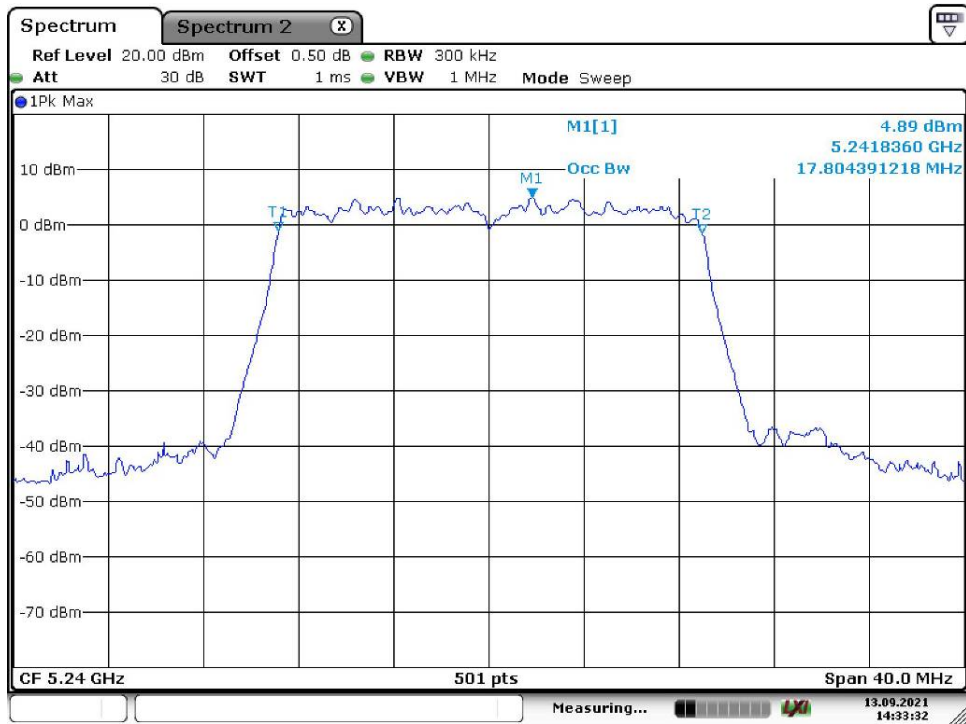
Date: 13.SEP.2021 14:32:15

802.11ac vht20 Middle Channel



Date: 13.SEP.2021 14:31:00

802.11ac vht20 High Channel



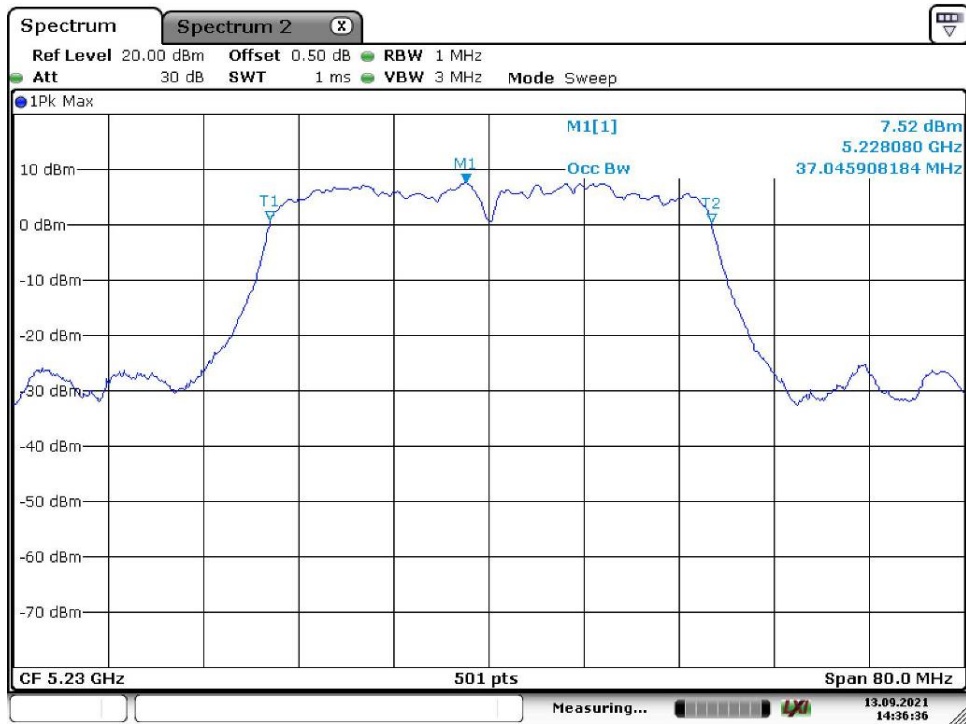
Date: 13.SEP.2021 14:33:32

802.11ac vht40 Low Channel



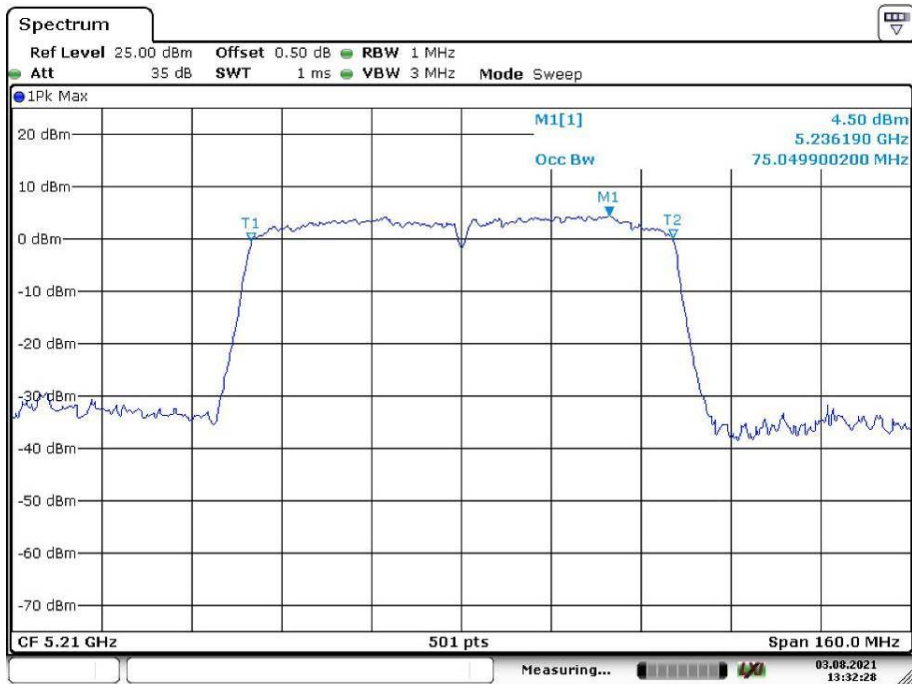
Date: 13.SEP.2021 14:34:50

802.11ac vht40 High Channel



Date: 13.SEP.2021 14:36:36

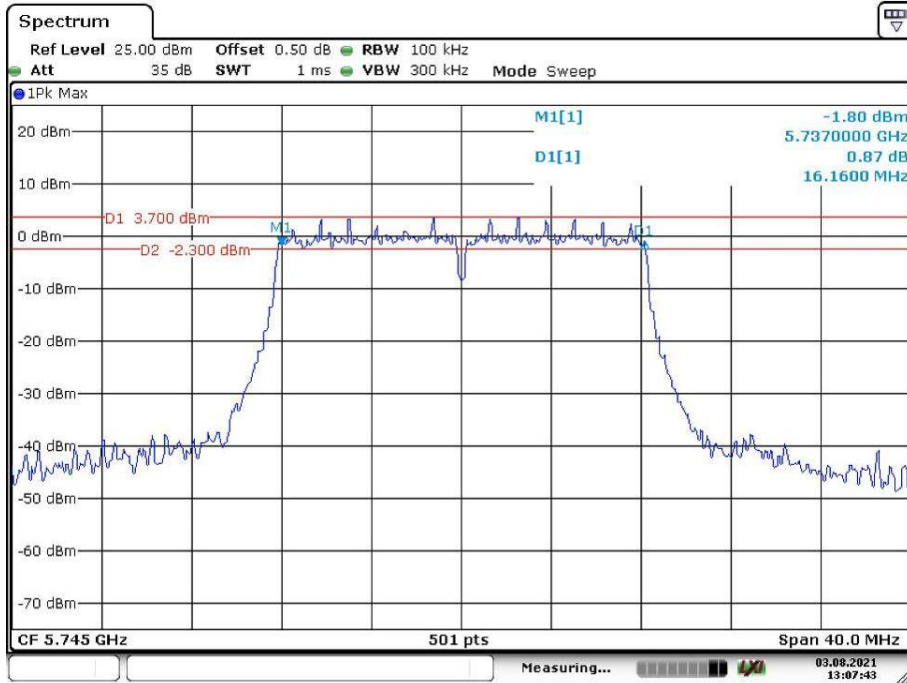
802.11ac vht80 Middle Channel



Date: 3.AUG.2021 13:32:28

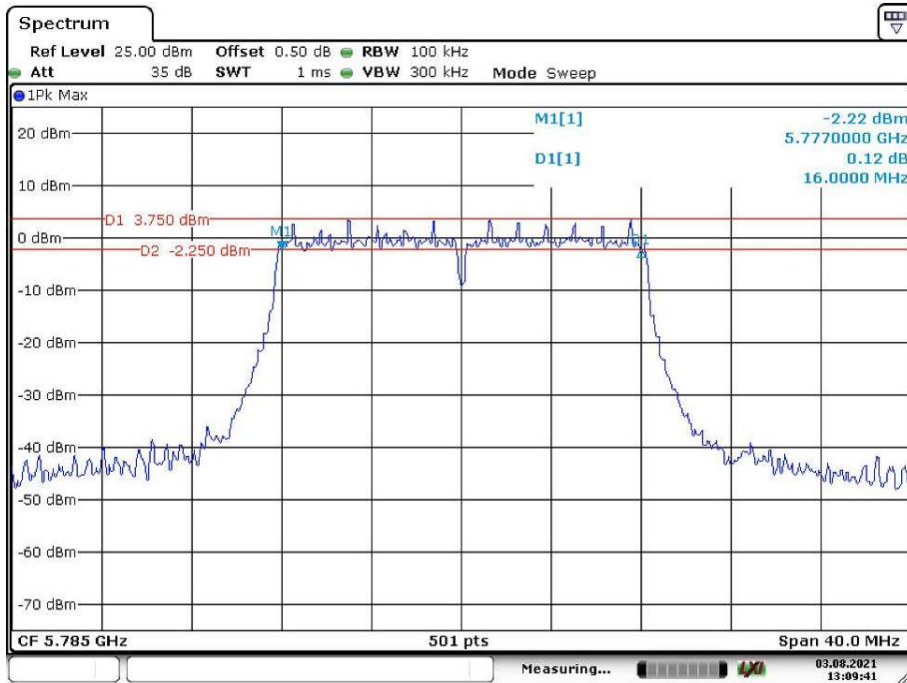
5725-5850MHz:
6dB Emission Bandwidth:

802.11a Low Channel



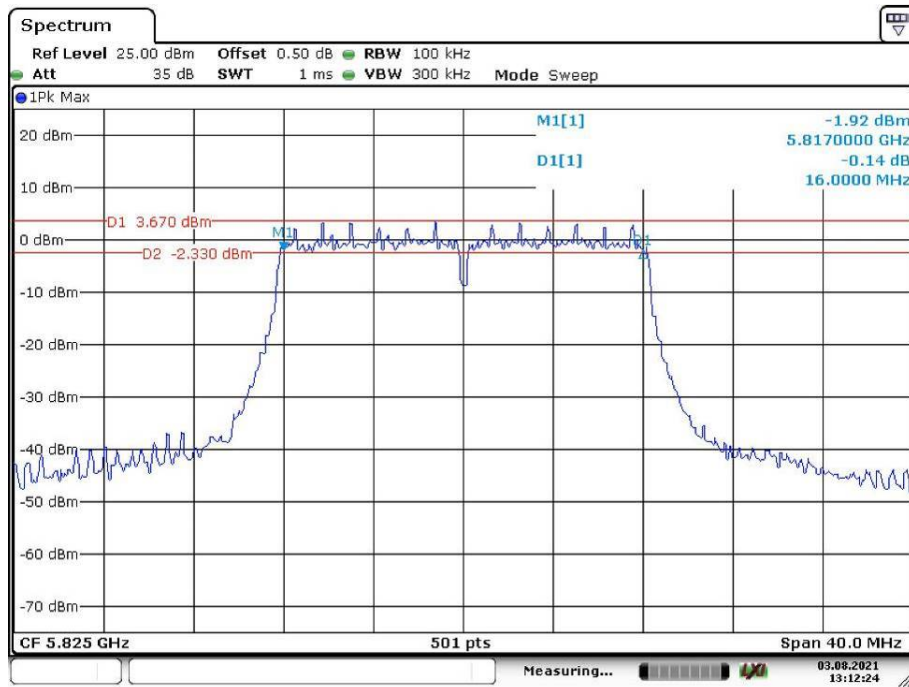
Date: 3.AUG.2021 13:07:43

802.11a Middle Channel



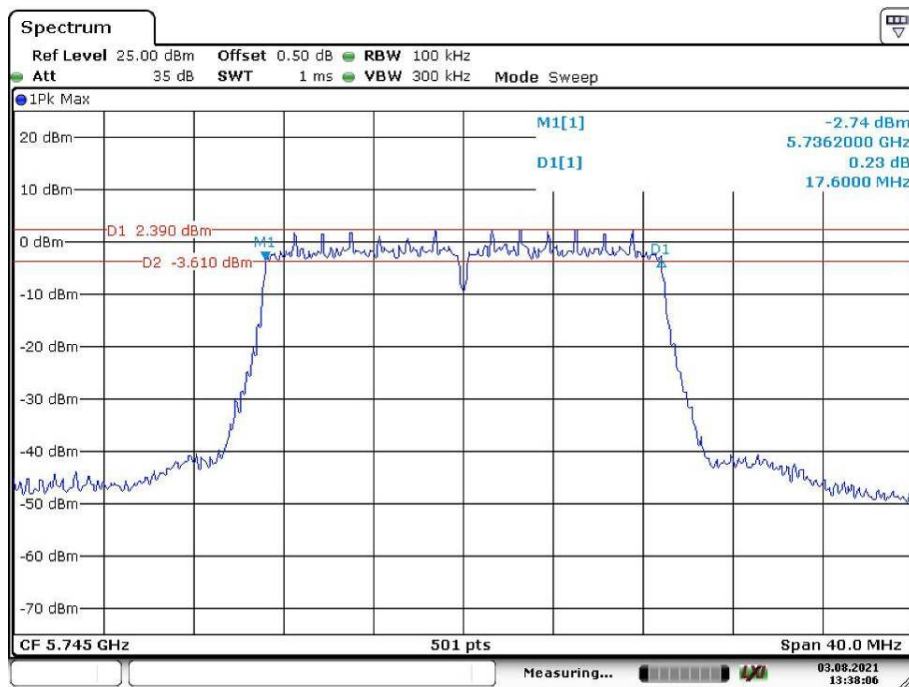
Date: 3.AUG.2021 13:09:41

802.11a High Channel



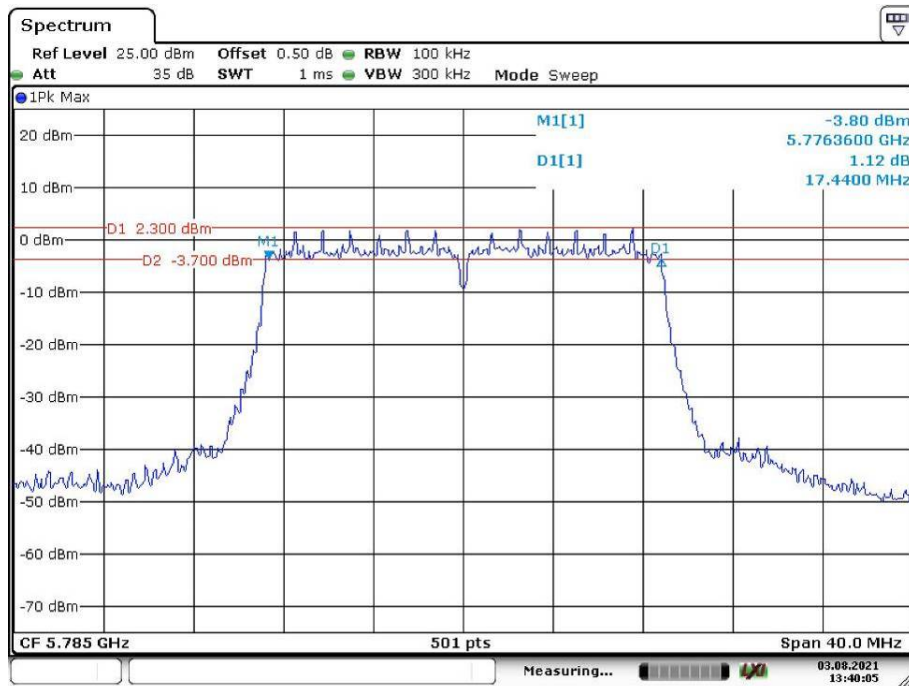
Date: 3.AUG.2021 13:12:24

802.11n ht20 Low Channel



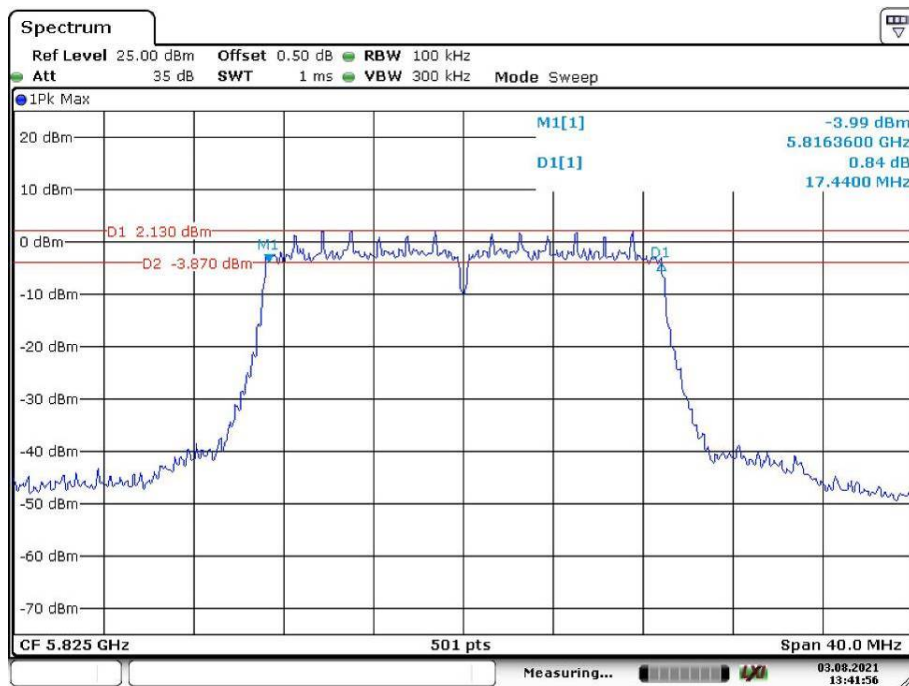
Date: 3.AUG.2021 13:38:06

802.11n ht20 Middle Channel



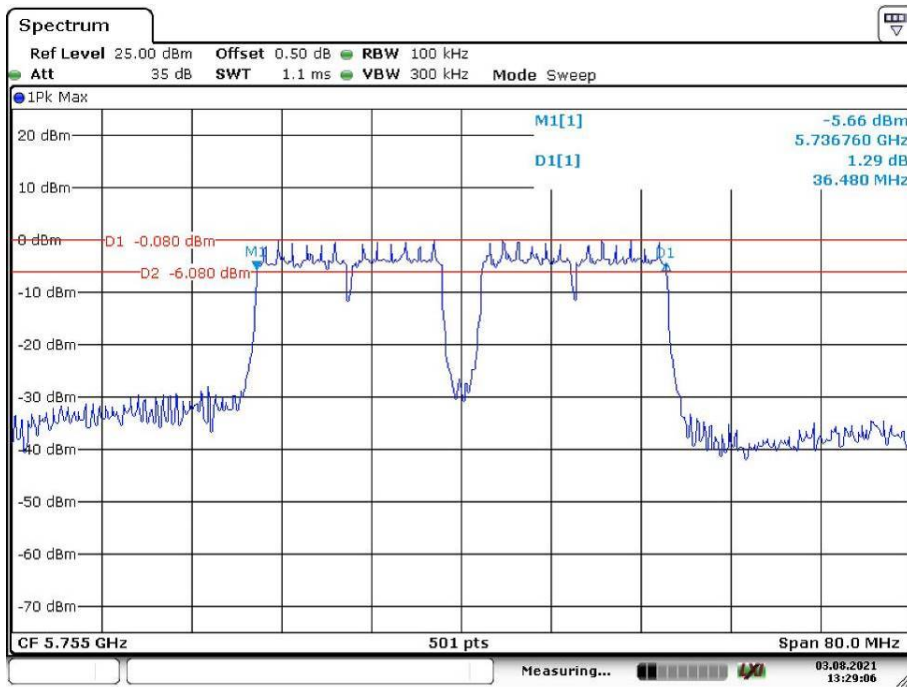
Date: 3.AUG.2021 13:40:05

802.11n ht20 High Channel



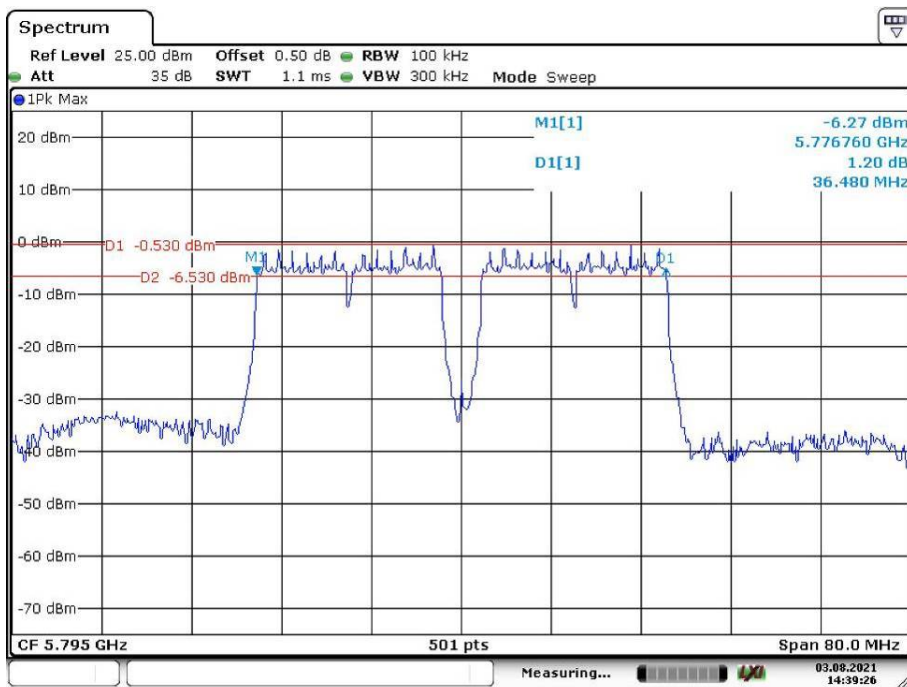
Date: 3.AUG.2021 13:41:56

802.11n ht40 Low Channel



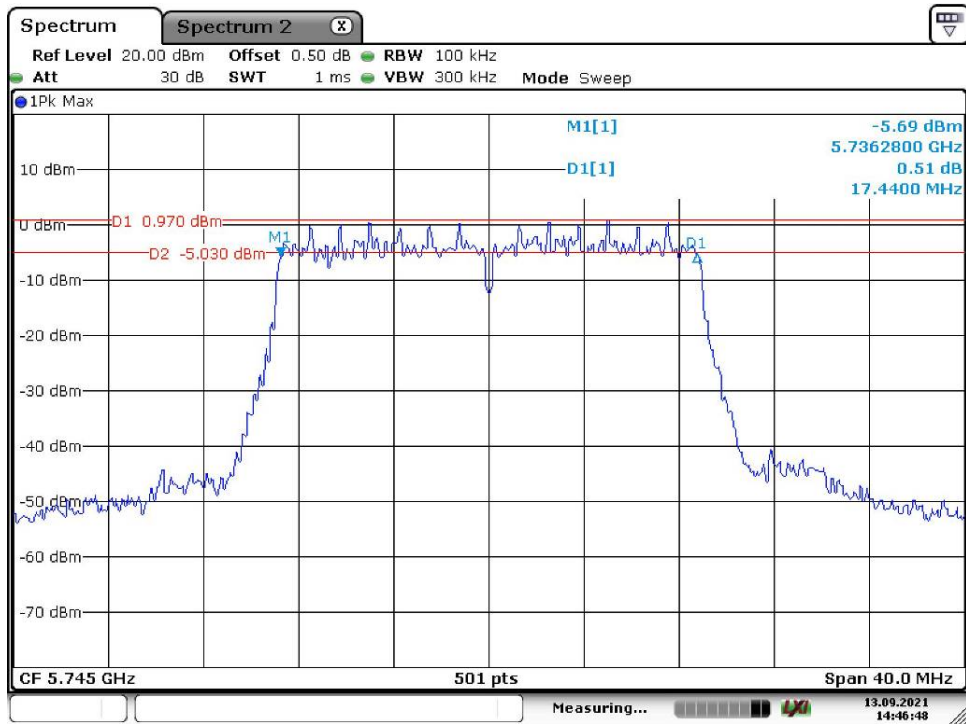
Date: 3.AUG.2021 13:29:06

802.11n ht40 High Channel



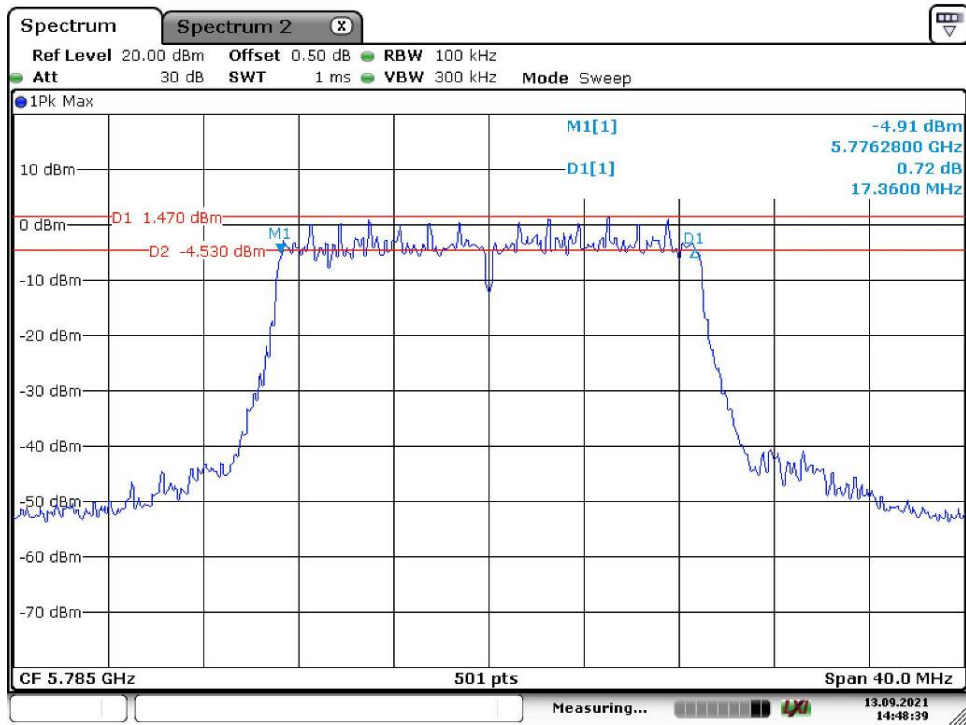
Date: 3.AUG.2021 14:39:27

802.11ac vht20 Low Channel



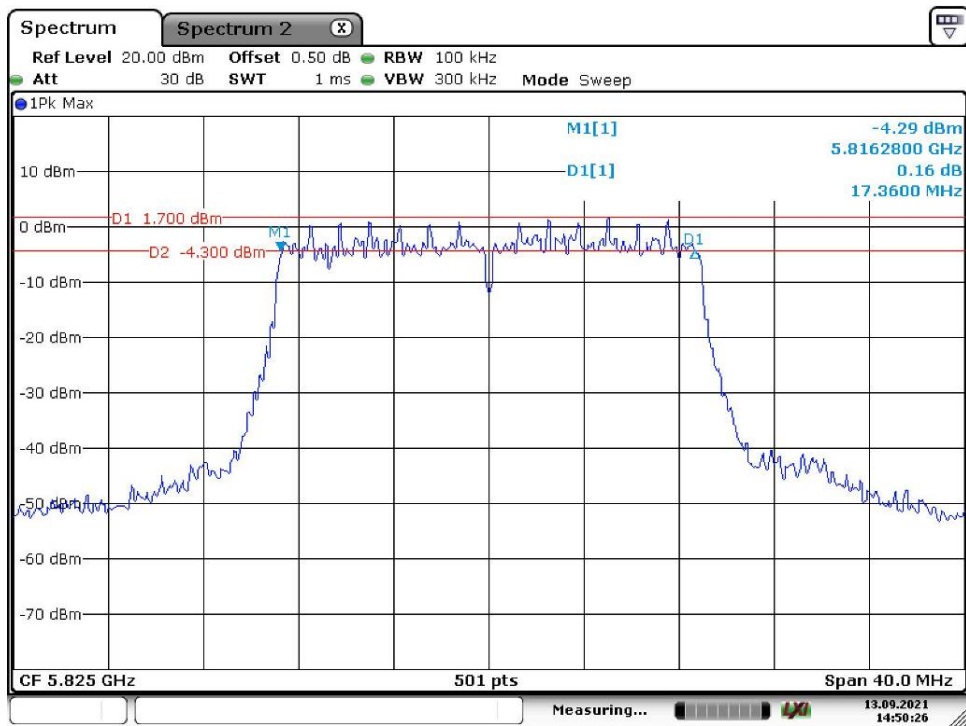
Date: 13.SEP.2021 14:46:48

802.11ac vht20 Middle Channel



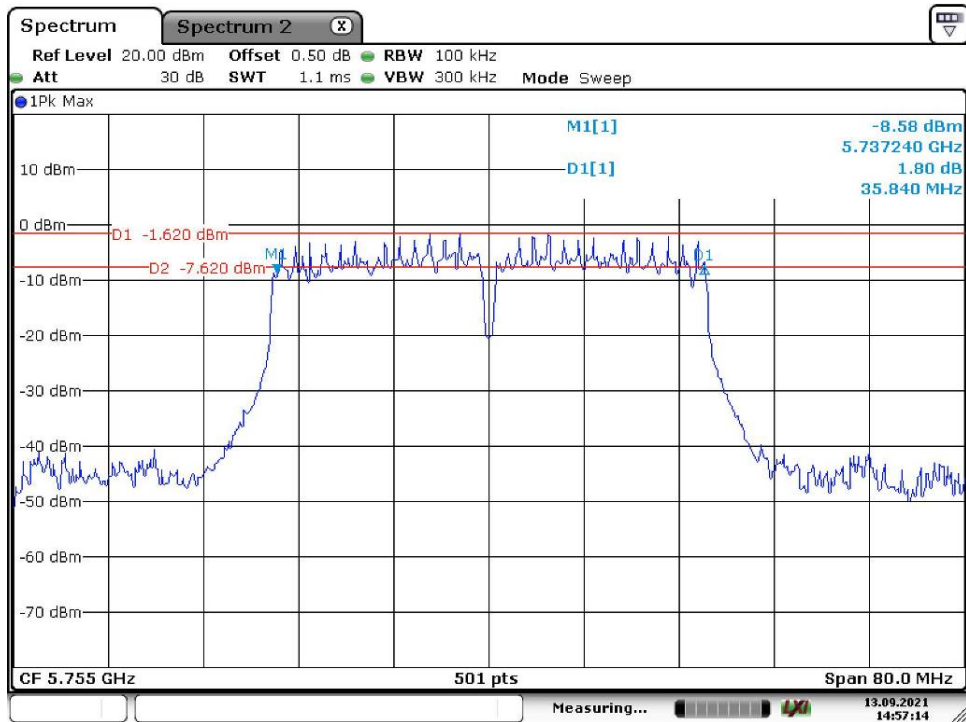
Date: 13.SEP.2021 14:48:39

802.11ac vht20 High Channel



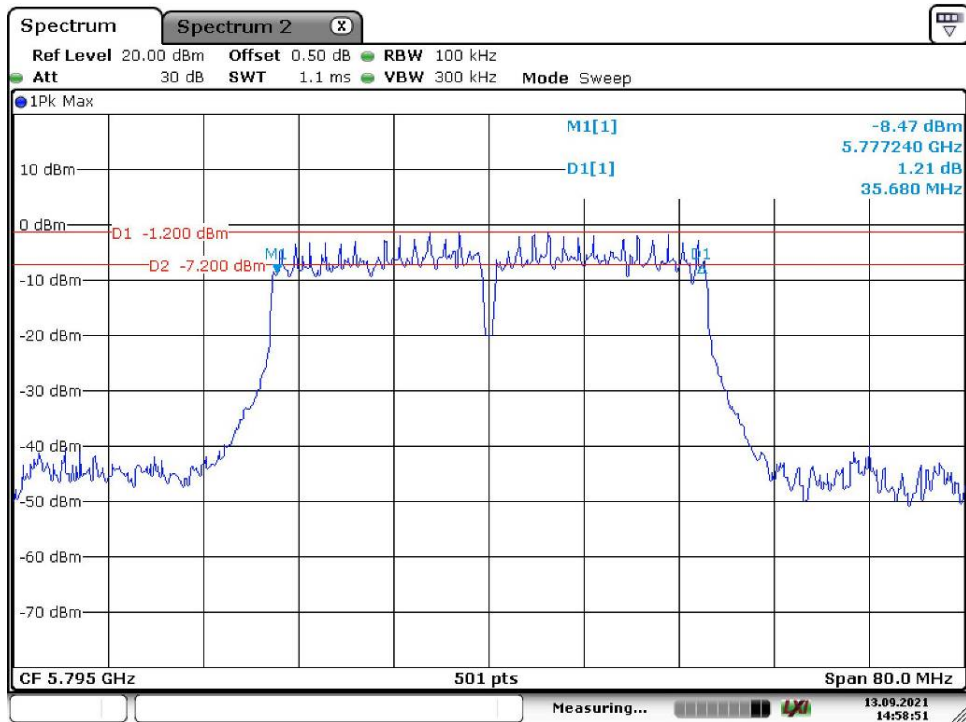
Date: 13.SEP.2021 14:50:26

802.11ac vht40 Low Channel



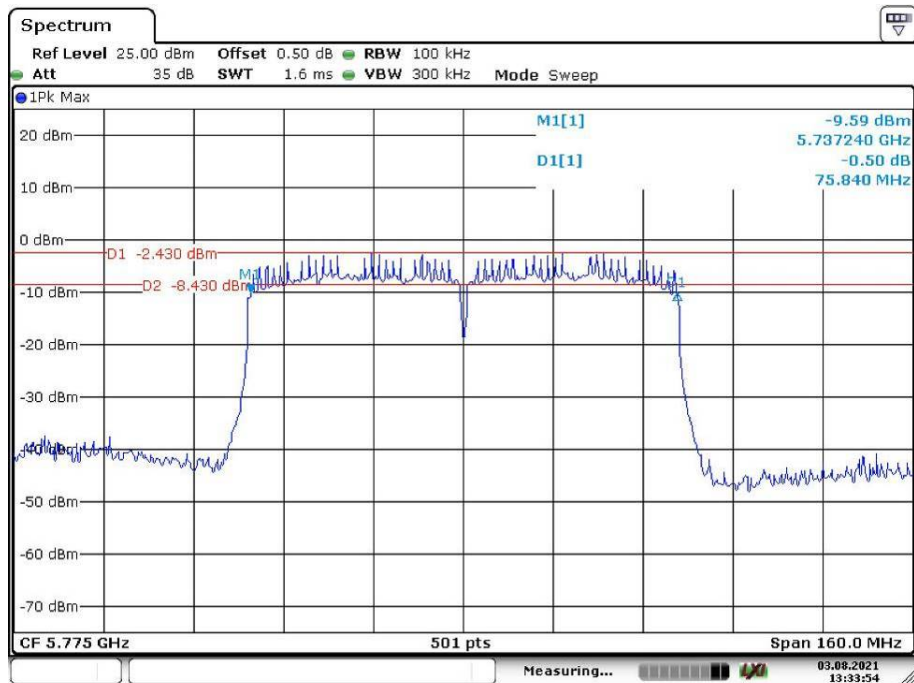
Date: 13.SEP.2021 14:57:14

802.11ac vht40 High Channel



Date: 13.SEP.2021 14:58:51

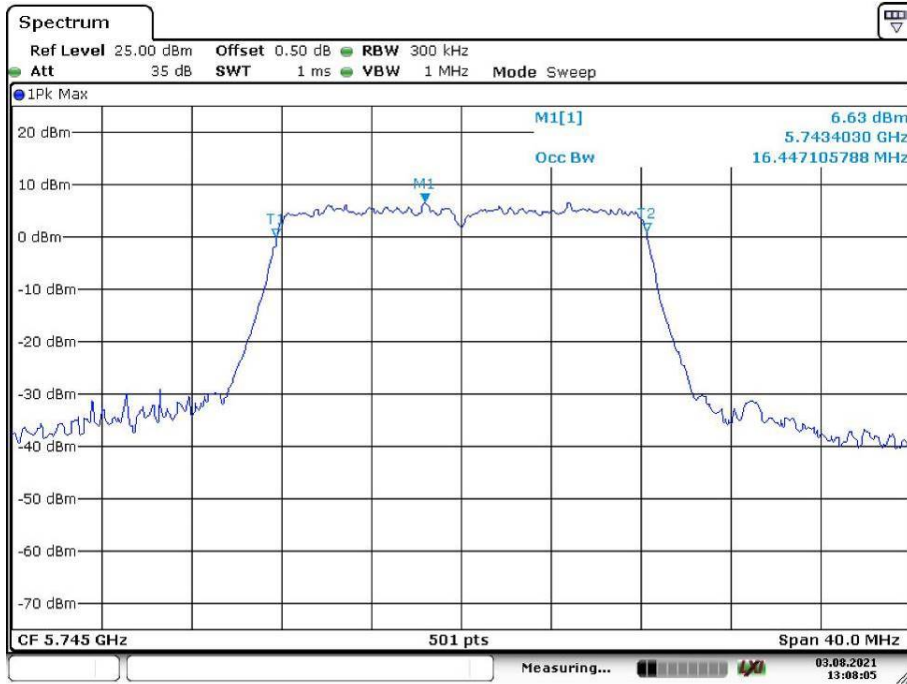
802.11ac vht80 Middle Channel



Date: 3.AUG.2021 13:33:54

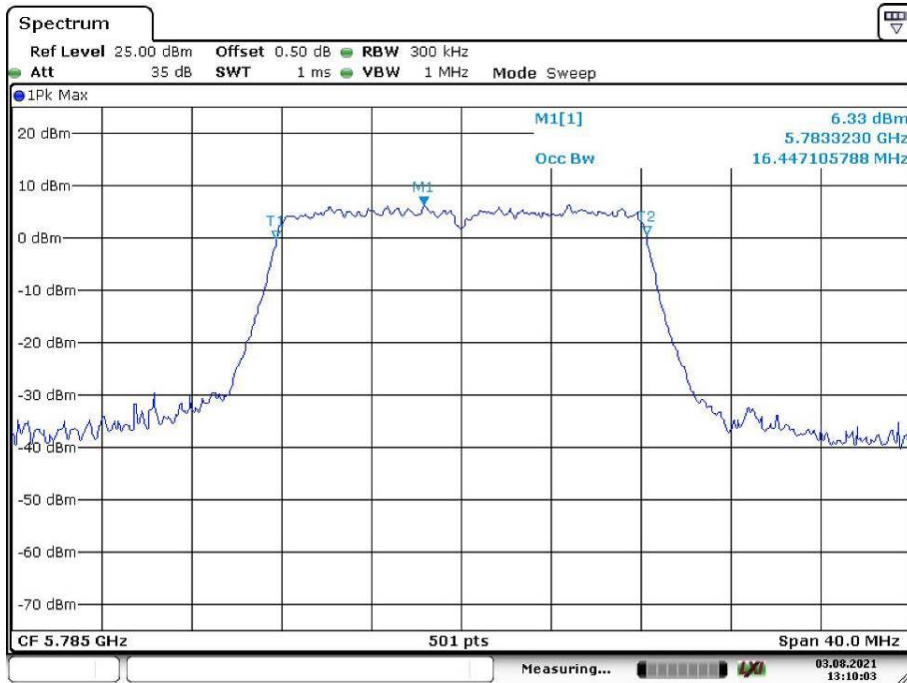
99% Occupied Bandwidth:

802.11a Low Channel



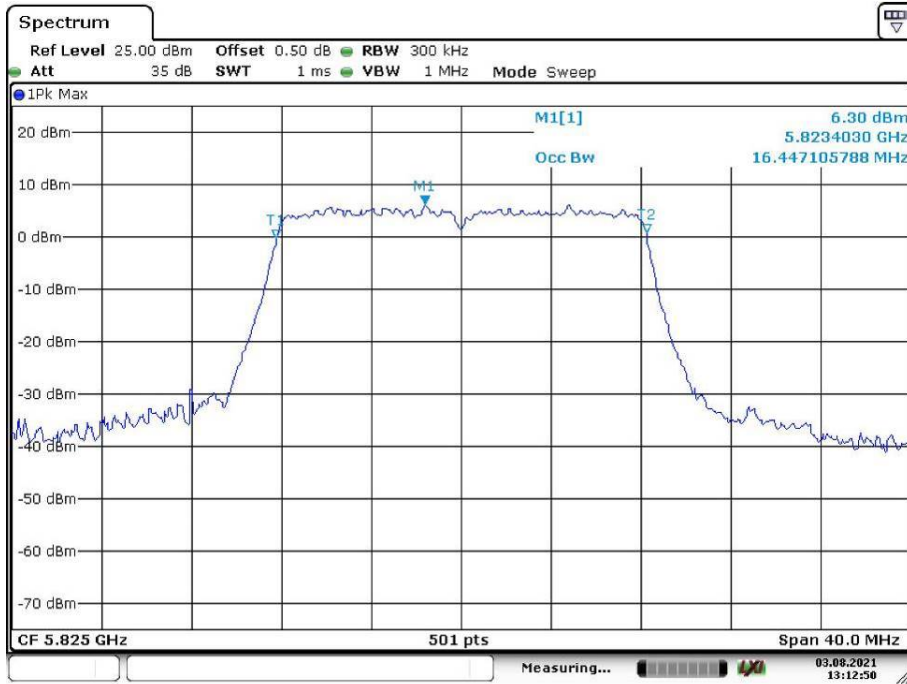
Date: 3.AUG.2021 13:08:05

802.11a Middle Channel



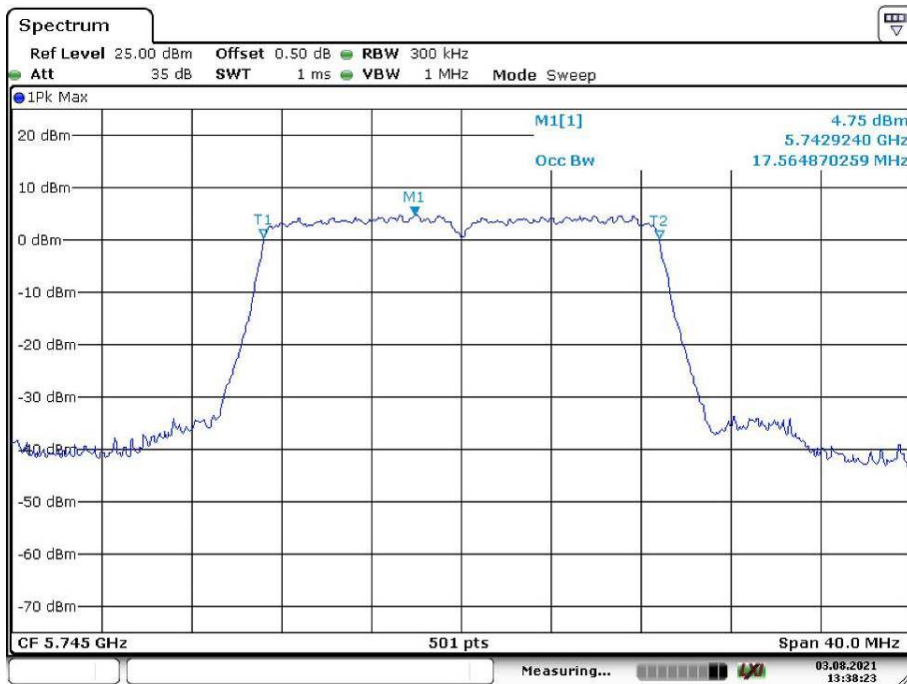
Date: 3.AUG.2021 13:10:03

802.11a High Channel



Date: 3.AUG.2021 13:12:50

802.11n ht20 Low Channel



Date: 3.AUG.2021 13:38:23