FCC PART 15.407

TEST REPORT

For

Tactus Ltd

Building 1, Olympic Way, Olympic Park, Warrington, Cheshire WA2 0YL, United Kingdom

FCC ID: 2AY5Z-GEOBOOK

Report Type:	**Product Type:**
Original Report	Laptop

Report Number: RSZ210225801-00C

Report Date: 2021-03-24

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Laptop
Trade Name	Bmorn
Tested Model	GeoBook
Multiple Model	GeoBook 120, GeoBook 110, GeoBook 140, GeoBook 240, GeoBook 340, GeoBook 540, GeoFlex 110, GeoFlex 340, GeoFlex 230, GeoFlex 240
Model Differences	All the same except model name is different.
Frequency Range	5G Wi-Fi: 5150-5250 MHz; 5725-5850 MHz
Maximum Average Conducted Output Power	5G Wi-Fi: 5150-5250 MHz: 14.25dBm (802.11a), 13.05dBm(802.11n20), 12.99 dBm(802.11n40) 12.73dBm (802.11ac20), 12.11dBm (802.11ac40), 11.87dBm (802.11ac80) 5725-5850 MHz: 13.76dBm (802.11a), 13.49dBm(802.11n20), 13.58dBm(802.11n40) 12.74dBm (802.11ac20), 11.96dBm (802.11ac40), 11.58dBm (802.11ac80)
Modulation Technique	OFDM
Antenna Specification	FPC Antenna: 0.74dBi(provided by the applicant)
Voltage Range	DC7.6V from battery or DC 12V from adapter
Date of Test	2021-03-10 to 2021-03-18
Sample serial number	RSZ210225801-RF-S1(Assigned by ATC)
Received date	2021-02-28
Sample/EUT Status	Good condition
Adapter information	Model: CGSW30A INPUT: 100-240VAC, 50/60Hz, 0.8A OUTPUT: 12V, 2000mA

Objective

This type approval report is in accordance with Part 2-Subpart J, Part 15-Subparts A and E of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC 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 KDB789033D02 General U-NII Test Procedures New Rules v02r01.

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd.. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

Parameter		Uncertainty
AC Power Lines Conducted Emissions		±2.72dB
Emissions, Radiated	30MHz - 1GHz	±4.28dB
	1GHz- 18GHz	±4.98dB
	18GHz- 26.5GHz	±5.06dB

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

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189. Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 429 7.01.

Listed by Innovation, Science and Economic Development Canada (ISEDC), the Registration Number is 5077A-2.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in an engineering mode, which was provided by manufacturer.

The device only supports 5GWi-Fi 802.11a/n20/n40/ac20/ac40/ac80 modes, which was declared by manufacturer.

For 5150-5250MHz Band, 7 channels are provided to testing:

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

For 802.11a, 802.11n20, 802.11ac20 channel 36, 40, 48 were tested;
For 802.11n40/ac40 channel 38, 46 were tested.
For 802.11ac80 channel 48 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, 802.11n20, 802.11ac20 channel 149, 157, 165 were tested;
For 802.11n40/ac40, channel 151, 159 were tested;
For 802.11ac80, channel 155 was tested.

Note: This product has two antennas for Wi-Fi function, but only main antenna can support transmitting function, which declared by applicant.

EUT Exercise Software

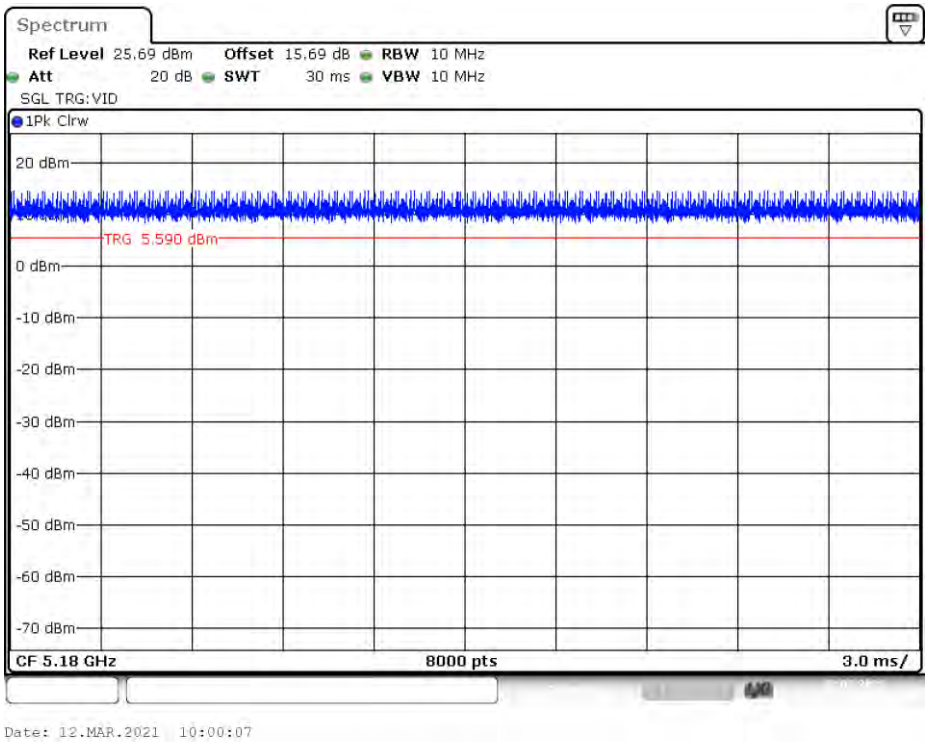
"REALTEK 11ac 8821CE" was used during testing and power level as below.

Mode	Data Rate (Mbps)	Power Level
802.11 a	6	32
802.11 n20/n40	MCS0	30
802.11 ac20/ac40/ac80	MCS0	28

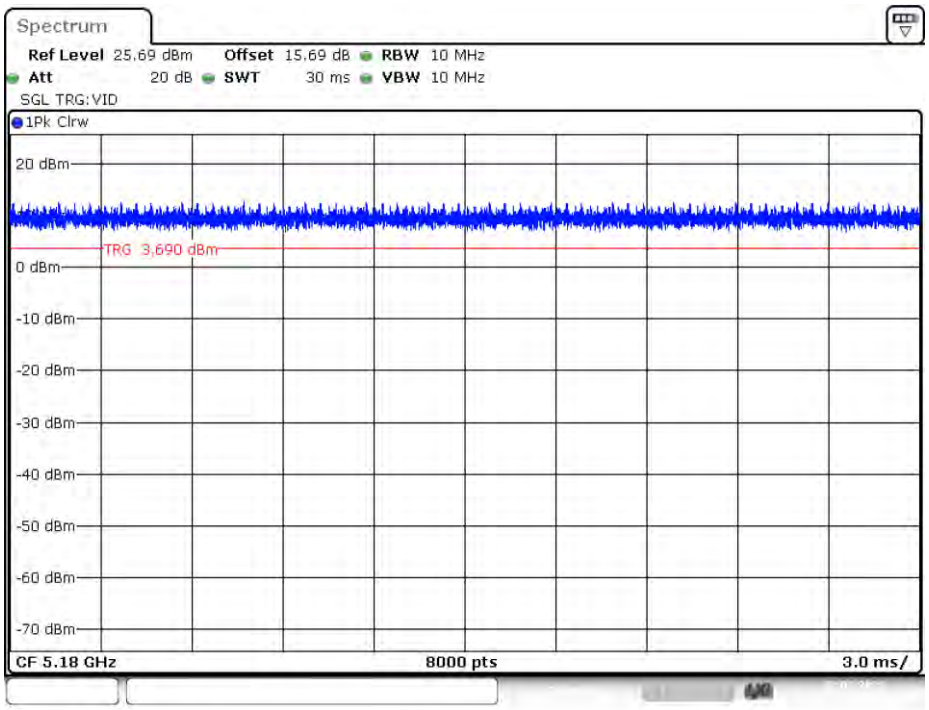
Duty cycle

Mode	Ton (ms)	Ton+off (ms)	Duty Cycle (%)	10*log(1/duty cycle) (dB)
802.11a	-	-	100	0
802.11n20	-	-	100	0
802.11n40	-	-	100	0
802.11ac20	-	-	100	0
802.11ac40	-	-	100	0
802.11ac80	-	-	100	0

802.11a mode

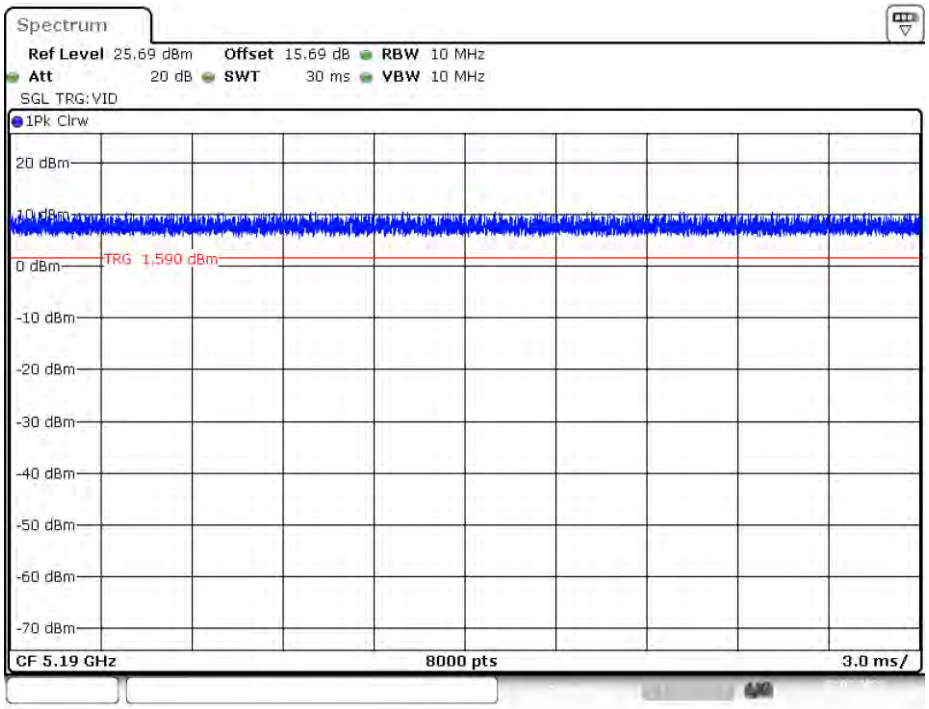


802.11n20 mode



Date: 12.MAR.2021 10:56:40

802.11n40 mode



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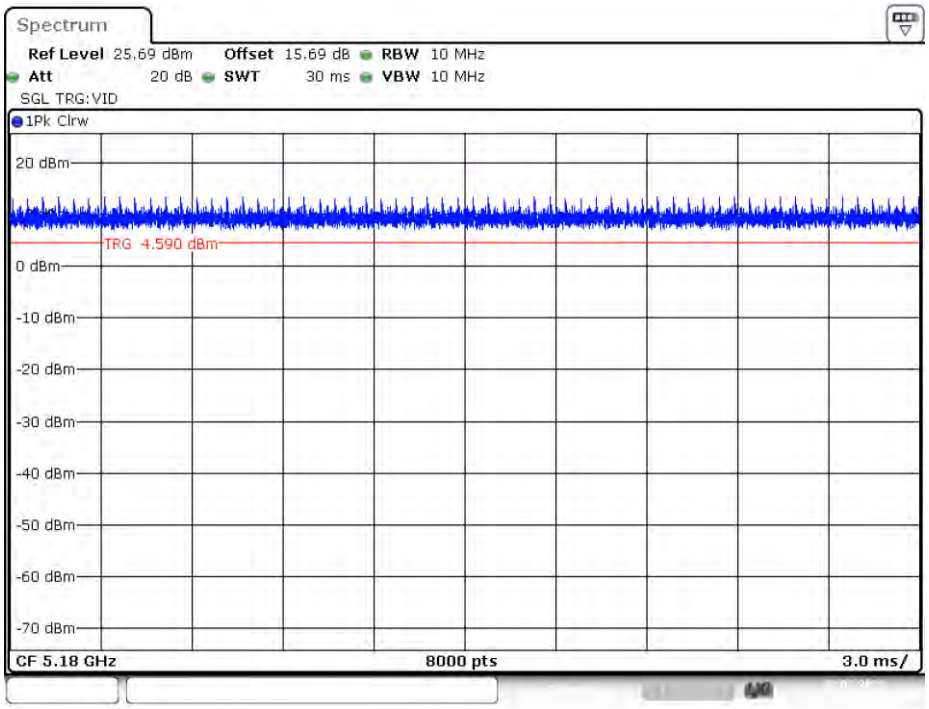
802.11ac20 Mode



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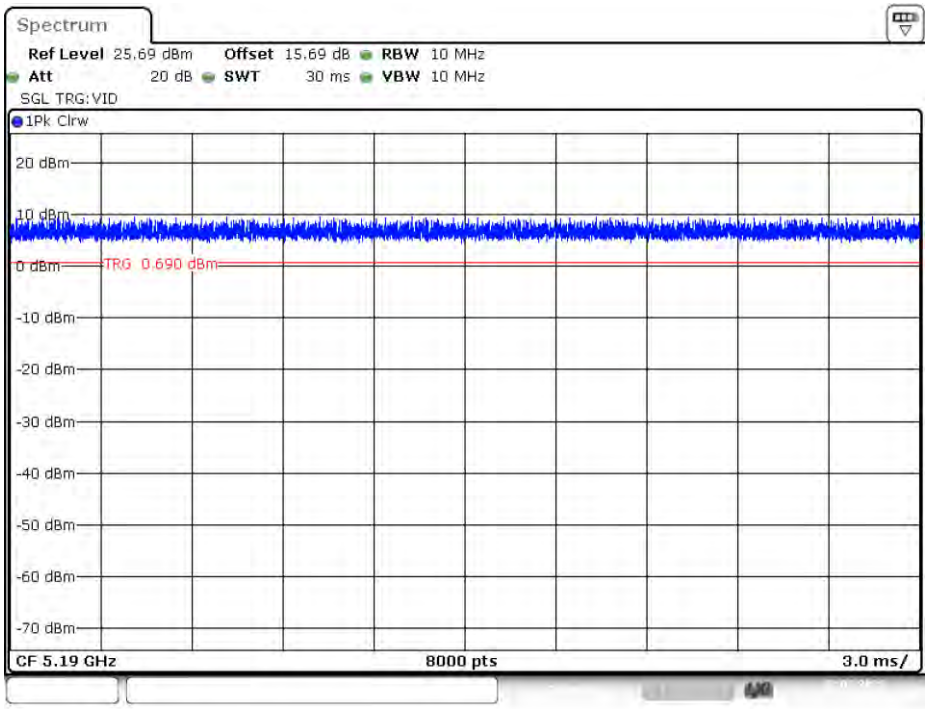
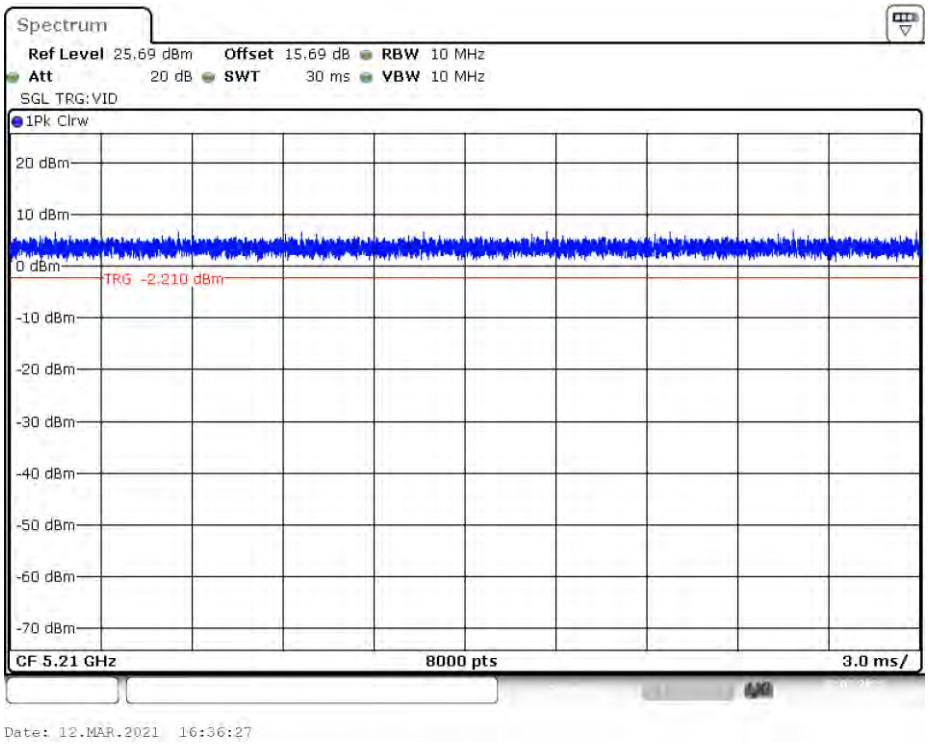
802.11ac40 Mode



Date: 12.MAR.2021 16:20:46

802.11ac80 Mode



Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

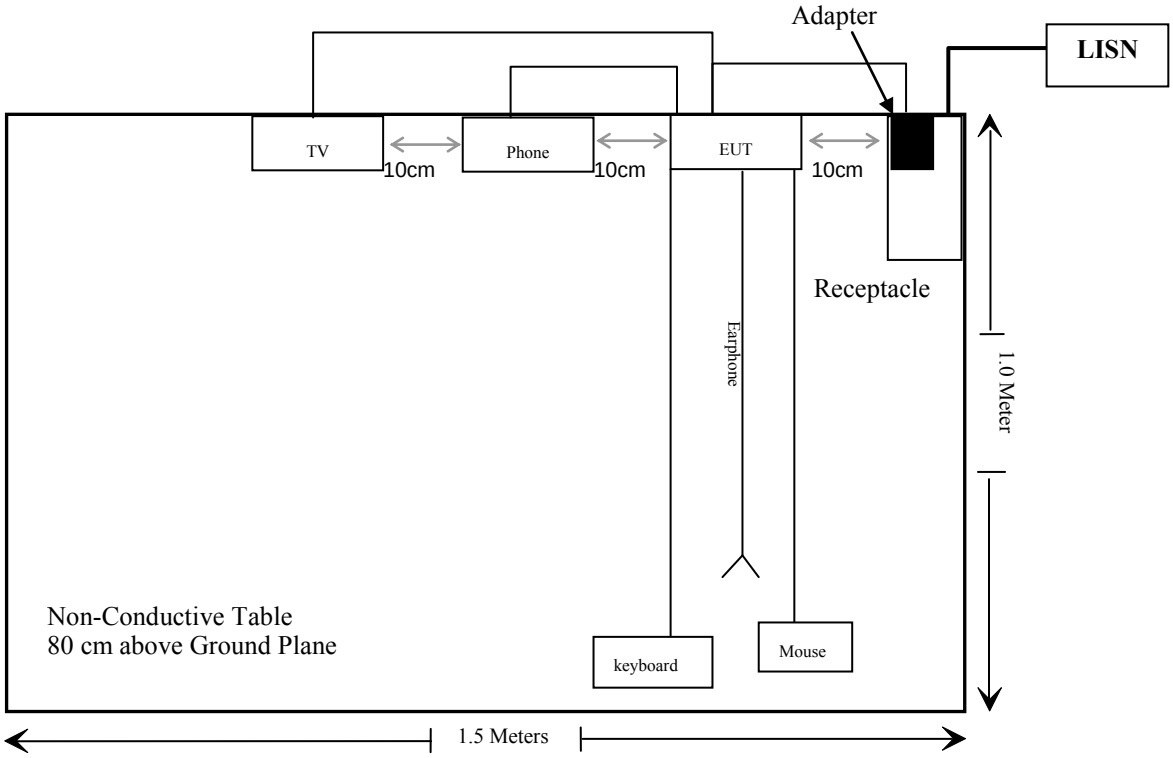
Manufacturer	Description	Model	Serial Number
SHARP	LCD COLOUR TV	LCD-19A33-BK	709913440
SFY	Keyboard	WK-100USB	/
Logitech	Mouse	M-U0026	/
/	Earphone	/	/
TOSHIBA	SD Card	1849PZ41056	/
SONY	Mobile Phone	Xperia Z2	D6053

External I/O Cable

Cable Description	Length (m)	From Port	To
DC IN	2.0	Adapter	EUT
HDMI	1.0	EUT	TV

Block Diagram of Test Setup

For conducted emission:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1307 (b) (1)& §2.1093	RF Exposure	Compliance
§15.203	Antenna Requirement	Compliance
§15.407(b)(8) & §15.207(a)	Conducted Emissions	Compliance
§15.205 & §15.209 & §15.407(b) (1), (4), (7), (8), (9), (10)	Undesirable Emission& Restricted Bands	Compliance
§15.407(a) (12), (e)	Bandwidth	Compliance
§15.407(a) (1), (3)	Conducted Transmitter Output Power	Compliance
§15.407 (a) (1), (3)	Power Spectral Density	Compliance

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted emission test					
Rohde & Schwarz	Test Receiver	ESPI	100396/003	2020/12/24	2021/12/23
R & S	L.I.S.N.	ENV216	101314	2021/12/25	2021/12/24
Anritsu Corp	50Ω Coaxial Switch	MP59B	6200506474	2020/12/25	2021/12/24
Unknown	RF Coaxial Cable	N-2m	No.2	2020/12/25	2021/12/24
Radiated emission test					
Rohde& Schwarz	Test Receiver	ESR	101817	2020/12/24	2021/12/23
Rohde&Schwarz	Spectrum Analyzer	FSV40	101495	2020/12/24	2021/12/23
SONOMA INSTRUMENT	Amplifier	310 N	186131	2020/12/25	2021/12/24
A.H. Systems, inc.	Preamplifier	PAM-0118P	531	2020/07/08	2021/07/07
Quinstar	Amplifier	QLW-184055 36-J0	15964001002	2020/11/28	2021/11/27
Anritsu Corp	50 Coaxial Switch	MP59B	6100237248	2020/12/25	2021/12/24
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2020/01/05	2023/01/04
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-1067	2020/01/05	2023/01/04
Schwarzbeck	HORN ANTENNA	BBHA9170	9170-359	2020/01/05	2023/01/04
Unknown	RF Coaxial Cable	N-5m	No.3	2020/12/25	2021/12/24
Unknown	RF Coaxial Cable	N-5m	No.4	2020/12/25	2021/12/24
Unknown	RF Coaxial Cable	N-1m	No.5	2020/12/25	2021/12/24
Unknown	RF Coaxial Cable	N-1m	No.6	2020/12/25	2021/12/24
RF conducted test					
Rohde&Schwarz	Spectrum Analyzer	FSV40	101495	2020/12/24	2021/12/23
Rohde & Schwarz	Open Switch and Control Unit	OSP120 +OSP -B157	101244 + 100866	2020/12/24	2021/12/23
Rohde & Schwarz	Open Switch and Control Unit	OSP120 +OSP -B157	101244 + 100866	2020/12/24	2021/12/23

*** Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §1.1307(b) & §2.1093 - RF EXPOSURE INFORMATION

Applicable Standard

FCC§1.1310 and §2.1093.

Test Result

Compliance, please refer to the SAR report: RSZ210225801-20.

FCC §15.203 – ANTENNA REQUIREMENT

Applicable Standard

According to § 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.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.407 (a), if the transmitting antennas of directional gain greater than 6dBi are used, the transmit power and power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has two internal antennas for Wi-Fi function, but only main antenna can support transmitting function, and the antenna gain are 0.74dBi, which fulfill the requirement of this section. Please refer to the EUT photos.

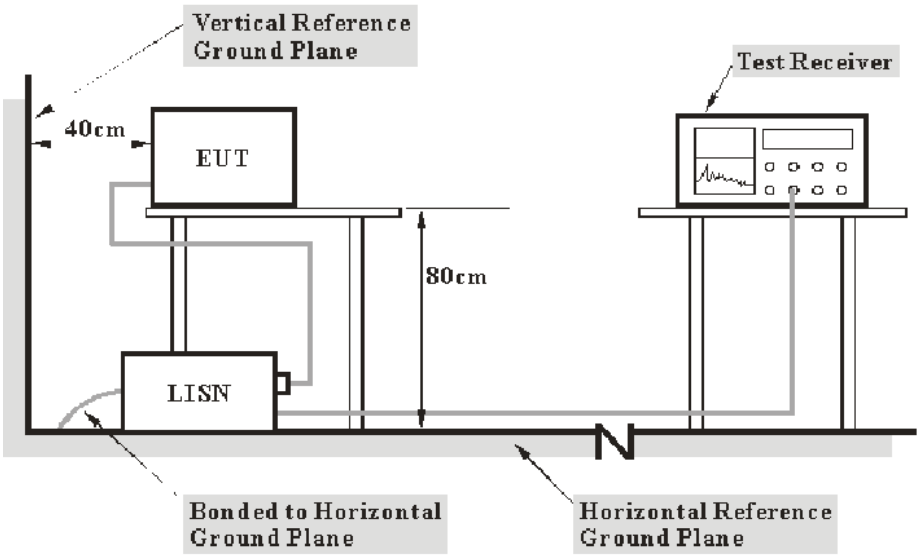
Result: Compliance.

FCC §15.407 (B) (8) §15.207 (A) – CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207, §15.407(b) (8)

EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the 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.

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

Test Procedure

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

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Test Data

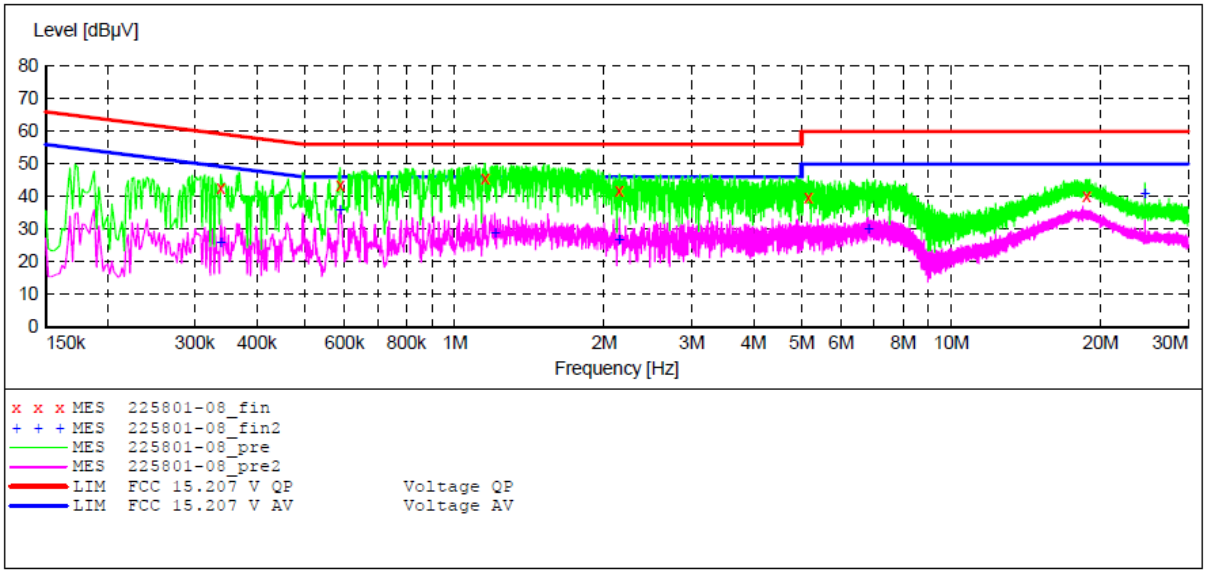
Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	65 %
ATM Pressure:	101.0 kPa

The testing was performed by Black Ding on 2021-03-09.

EUT operation mode: Transmitting (Worst case as below)

AC 120V/60 Hz, Line



MEASUREMENT RESULT: "225801-08_fin"

2021-3-9 19:49

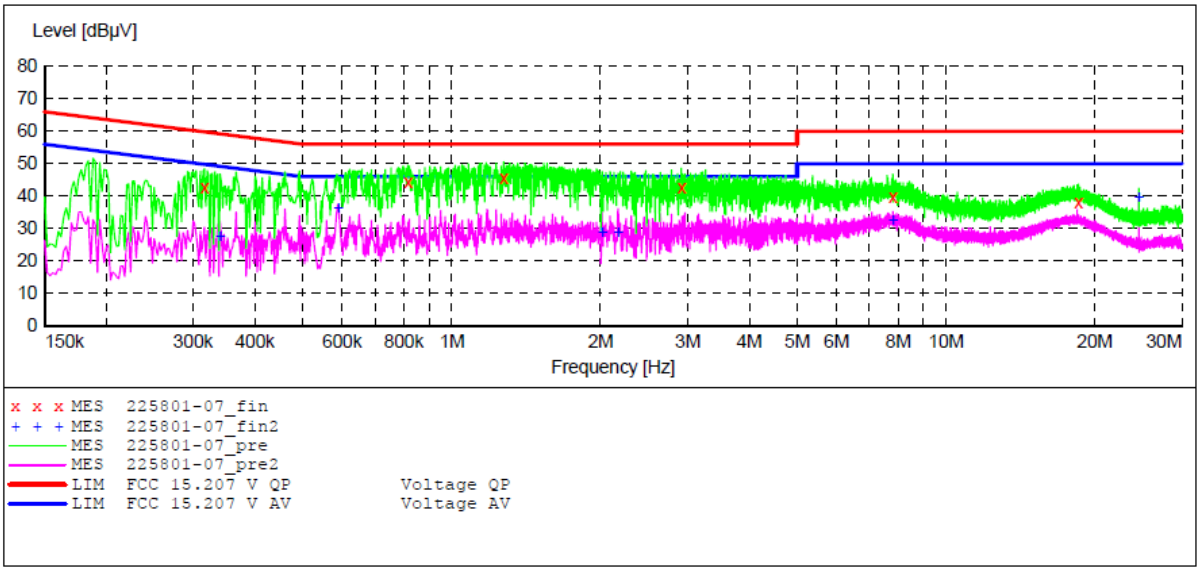
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.338000	42.70	10.9	59	16.3	QP	L1	GND
0.588000	43.30	11.0	56	12.7	QP	L1	GND
1.150000	45.50	11.2	56	10.5	QP	L1	GND
2.145000	41.90	11.3	56	14.1	QP	L1	GND
5.155000	39.60	11.4	60	20.4	QP	L1	GND
18.730000	40.00	11.7	60	20.0	QP	L1	GND

MEASUREMENT RESULT: "225801-08_fin2"

2021-3-9 19:49

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.338000	26.10	10.9	49	22.9	AV	L1	GND
0.588000	35.90	11.0	46	10.1	AV	L1	GND
1.204000	28.80	11.2	46	17.2	AV	L1	GND
2.145000	26.90	11.3	46	19.1	AV	L1	GND
6.810000	30.20	11.5	50	19.8	AV	L1	GND
24.575000	41.10	11.7	50	8.9	AV	L1	GND

AC 120V/60 Hz, Neutral



MEASUREMENT RESULT: "225801-07_fin"

2021-3-9 19:47

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.316000	42.50	10.9	60	17.5	QP	N	GND
0.816000	44.30	11.1	56	11.7	QP	N	GND
1.274000	45.60	11.2	56	10.4	QP	N	GND
2.915000	42.80	11.3	56	13.2	QP	N	GND
7.805000	39.90	11.5	60	20.1	QP	N	GND
18.540000	38.00	11.7	60	22.0	QP	N	GND

MEASUREMENT RESULT: "225801-07_fin2"

2021-3-9 19:47

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.340000	27.50	10.9	49	21.5	AV	N	GND
0.590000	36.50	11.0	46	9.5	AV	N	GND
2.015000	28.80	11.3	46	17.2	AV	N	GND
2.170000	28.80	11.3	46	17.2	AV	N	GND
7.805000	32.70	11.5	50	17.3	AV	N	GND
24.575000	39.90	11.7	50	10.1	AV	N	GND

§15.205 & §15.209 & §15.407(B) (1), (4), (7), (8) , (9), (10) – UNDESIRABLE EMISSION

Applicable Standard

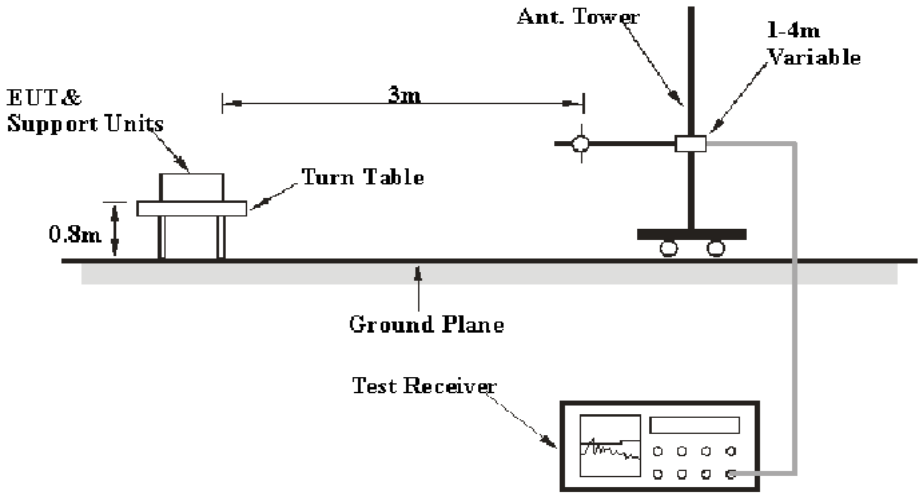
FCC §15.407 (b) (1), (4), (7), (8), (9), (10); §15.209; §15.205;

(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.
(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.

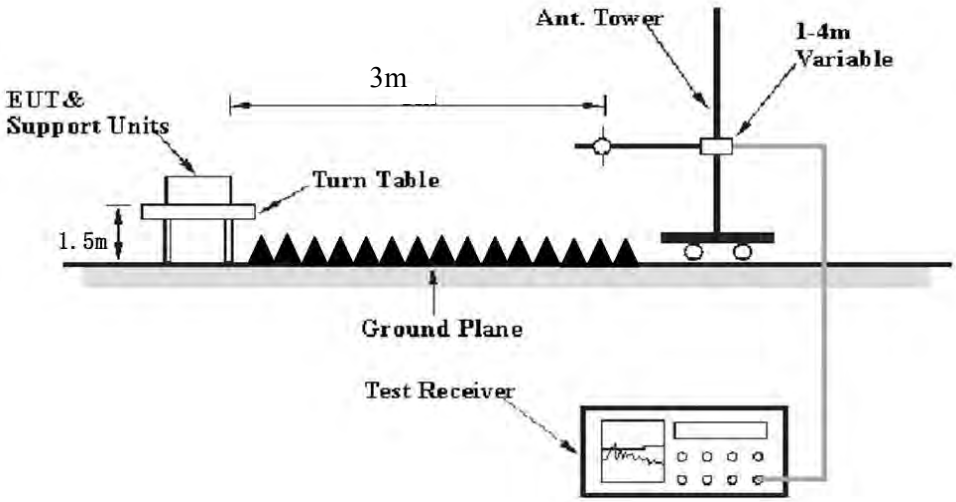
Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

EUT Setup

Below 1 GHz:



Above 1 GHz:



The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC 15.209 and FCC 15.407 limits.

EMI Test Receiver & Spectrum Analyzer Setup

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

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	PK
	1MHz	10 Hz Note 1	/	Average
	1MHz	＞1/T Note 2	/	Average

Note 1: when duty cycle is no less than 98%
Note 2: when duty cycle is less than 98%

Test Procedure

Radiated Spurious Emission

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all the installation combinations.

According to ANSI C63.10-2013,9.4: For field strength measurements made at other than the distance at which the applicable limit is specified,extrapolate the measured field strength to the field strength at the distance specified by the limit using an inverse distance correction factor (20 dB/decade of distance). In some cases, a different distance correction factor may be required;

Factor & Margin Calculation

The Factor 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:

Factor = Meter Reading + Antenna Factor + Cable Loss - 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:

Margin = Result-Limit
Result = Reading + Factor

Test Data

Environmental Conditions

Temperature:	22~29 ℃
Relative Humidity:	50~56 %
ATM Pressure:	101.0 kPa

The testing was performed by Black Ding on 2021-03-09.

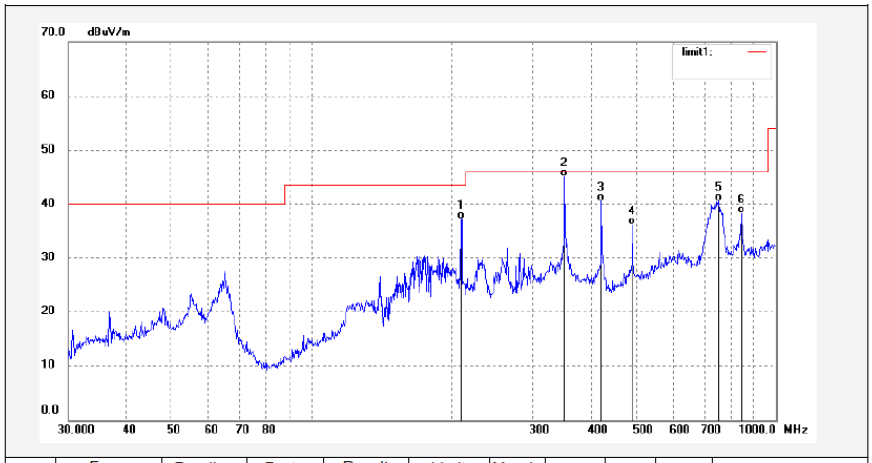
EUT operation mode: Transmitting

30 MHz~1 GHz:

Note: Pretest with 802.11a, 802.11n20, 802.11n40, 802.11ac20, 802.11ac40, 802.11ac80 the worst case was 802.11a mode.

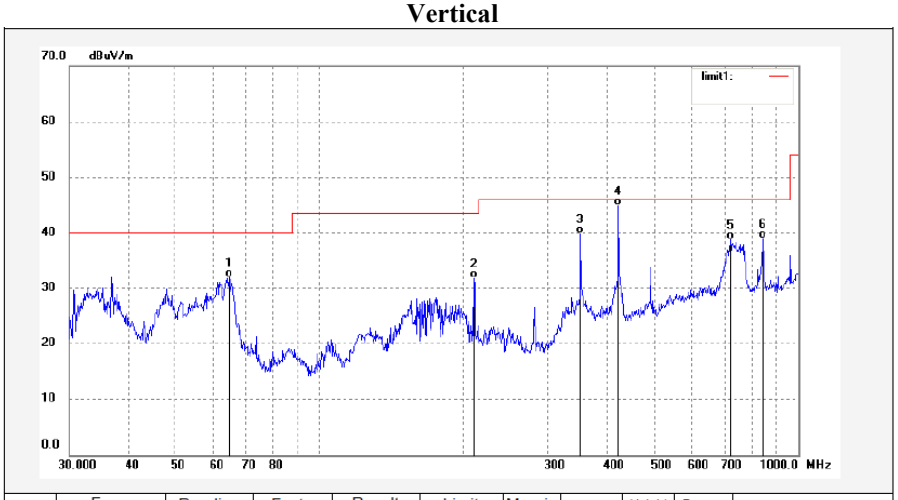
5180MHz:

Horizontal



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	210.0482	48.45	-11.23	37.22	43.50	-6.28	QP			
2	350.4768	49.41	-4.29	45.12	46.00	-0.88	QP			
3	420.5803	42.73	-2.16	40.57	46.00	-5.43	QP			
4	490.7447	37.43	-1.37	36.06	46.00	-9.94	QP			
5	752.7432	38.57	2.03	40.60	46.00	-5.40	QP			
6	842.1296	35.35	2.94	38.29	46.00	-7.71	QP			

Vertical



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	64.6594	45.40	-13.38	32.02	40.00	-7.98	QP			
2	210.0482	40.80	-9.11	31.69	43.50	-11.81	QP			
3	350.4768	44.05	-4.29	39.76	46.00	-6.24	QP			
4	420.5803	47.03	-2.16	44.87	46.00	-1.13	QP			
5	721.7259	37.07	1.73	38.80	46.00	-7.20	QP			
6	842.1296	35.94	2.94	38.88	46.00	-7.12	QP			

1 ~ 40 GHz:
Note: Pretest with 802.11a, 802.11n20, 802.11n40, 802.11ac20, 802.11ac40, 802.11ac80 the worst case as below:

5150-5250 MHz:

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		factor	Absolute Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
	Reading (dBuV/m)	PK/Ave		Height (m)	Polar (H/V)				
5G 11A BAND1, Low Channel									
4500.00	43.45	PK	125	1.50	H	1.89	45.34	74.00	28.66
4500.00	43.09	PK	151	1.60	V	1.89	44.98	74.00	29.02
5150.00	43.10	PK	197	1.70	H	3.37	46.47	74.00	27.53
5150.00	43.66	PK	214	1.90	V	3.37	47.03	74.00	26.97
10360.00	40.36	PK	266	1.10	H	11.41	51.77	68.20	16.43
10360.00	40.91	PK	142	1.00	V	11.41	52.32	68.20	15.88
5G 11A BAND1, Middle Channel									
10400.00	41.67	PK	106	1.50	H	11.46	53.13	68.20	15.07
10400.00	42.14	PK	125	1.60	V	11.46	53.60	68.20	14.60
5G 11A BAND1, High Channel									
10480.00	40.96	PK	254	1.40	H	11.53	52.49	68.20	15.71
10480.00	40.42	PK	206	1.80	V	11.53	51.95	68.20	16.25
5350.00	43.62	PK	153	1.90	H	3.43	47.05	74.00	26.95
5350.00	43.55	PK	160	1.60	V	3.43	46.98	74.00	27.02
5460.00	43.91	PK	124	2.00	H	3.58	47.49	74.00	26.51
5460.00	44.19	PK	191	1.50	V	3.58	47.77	74.00	26.23
5G 11N40 BAND1, Low Channel									
4500.00	43.10	PK	106	2.20	H	1.89	44.99	74.00	29.01
4500.00	43.17	PK	129	1.60	V	1.89	45.06	74.00	28.94
5150.00	43.19	PK	204	1.80	H	3.37	46.56	74.00	27.44
5150.00	43.78	PK	198	1.30	V	3.37	47.15	74.00	26.85
10380.00	40.26	PK	234	1.60	H	11.43	51.69	68.20	16.51
10380.00	40.65	PK	109	1.80	V	11.43	52.08	68.20	16.12
5G 11N40 BAND1, High Channel									
5350.00	44.33	PK	156	1.50	H	3.43	47.76	74.00	26.24
5350.00	44.44	PK	103	1.40	V	3.43	47.87	74.00	26.13
5460.00	44.03	PK	184	1.90	H	3.58	47.61	74.00	26.39
5460.00	44.14	PK	91	1.60	V	3.58	47.72	74.00	26.28
10460.00	41.77	PK	115	1.60	H	11.5	53.27	68.20	14.93
10460.00	41.66	PK	161	1.80	V	11.5	53.16	68.20	15.04
5G 11AC80 BAND1									
4500.00	43.15	PK	123	1.20	H	1.89	45.04	74.00	28.96
4500.00	43.59	PK	159	1.90	V	1.89	45.48	74.00	28.52
5150.00	43.70	PK	216	1.70	H	3.37	47.07	74.00	26.93

5150.00	43.08	PK	203	1.60	V	3.37	46.45	74.00	27.55
5350.00	44.16	PK	263	1.90	H	3.43	47.59	74.00	26.41
5350.00	44.20	PK	161	1.70	V	3.43	47.63	74.00	26.37
5460.00	44.00	PK	281	1.90	H	3.58	47.58	74.00	26.42
5460.00	44.17	PK	304	1.60	V	3.58	47.75	74.00	26.25
10420.00	41.89	PK	159	1.50	H	11.49	53.38	68.20	14.82
10420.00	41.35	PK	115	2.00	V	11.49	52.84	68.20	15.36

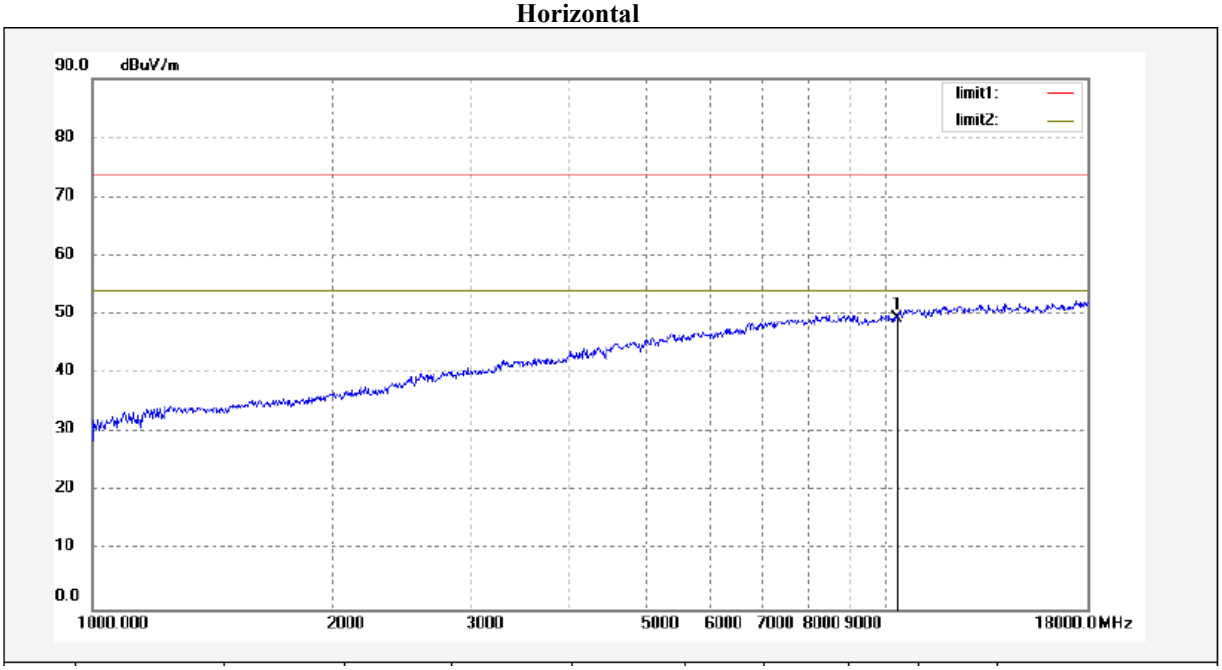
5725-5850 MHz:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	FCC Part 15.407/205/209	
	Reading (dBμV)	PK/QP/Ave.		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
5G 11A BAND4, Low Channel									
5646.50	44.05	PK	36	1.50	V	4.16	48.21	68.20	19.99
5696.17	43.51	PK	124	1.80	H	3.85	47.36	102.36	55.00
5717.50	43.59	PK	112	1.40	V	4.06	47.65	110.10	62.45
5724.50	43.75	PK	84	1.50	H	4.16	47.91	121.06	73.15
11490.00	38.31	PK	182	1.30	H	14.74	53.05	74.00	20.95
11490.00	38.14	PK	116	1.70	V	14.74	52.88	74.00	21.12
5G 11A BAND4, Middle Channel									
11570.00	38.02	PK	109	1.60	H	14.74	52.76	74.00	21.24
11570.00	37.97	PK	135	1.70	V	14.74	52.71	74.00	21.29
5G 11A BAND4, High Channel									
5854.78	44.33	PK	48	1.50	H	4.58	48.91	121.71	72.80
5871.61	44.44	PK	203	1.70	V	4.62	49.06	109.85	60.79
5886.67	44.03	PK	357	1.60	H	4.66	48.69	76.84	28.15
5929.72	44.14	PK	4	1.50	V	4.85	48.99	68.20	19.21
11650.00	37.56	PK	127	1.30	H	14.79	52.35	74.00	21.65
11650.00	38.18	PK	116	1.80	V	14.79	52.97	74.00	21.03
5G 11N40 BAND4, Low Channel									
5646.50	44.05	PK	36	1.50	V	4.16	48.21	68.20	19.99
5696.17	43.51	PK	124	1.80	H	3.85	47.36	102.36	55.00
5717.50	43.59	PK	112	1.40	V	4.06	47.65	110.10	62.45
5724.50	43.75	PK	84	1.50	H	4.16	47.91	121.06	73.15
11490.00	38.31	PK	182	1.30	H	14.74	53.05	74.00	20.95
11490.00	38.14	PK	116	1.70	V	14.74	52.88	74.00	21.12
5G 11N40 BAND4, High Channel									
11570.00	38.02	PK	109	1.60	H	14.74	52.76	74.00	21.24
11570.00	37.97	PK	135	1.70	V	14.74	52.71	74.00	21.29
5G 11 BAND4 AC80 BAND4									
5649.94	44.18	PK	316	1.60	V	4.16	48.34	68.20	19.86
5697.34	43.66	PK	214	1.90	H	3.85	47.51	103.23	55.72
5709.47	43.80	PK	135	1.70	V	4.06	47.86	107.85	59.99
5724.30	44.00	PK	226	1.90	H	4.13	48.13	120.60	72.47
5851.35	44.35	PK	25	1.60	H	4.58	48.93	113.87	64.94
5869.58	44.51	PK	118	1.90	V	4.62	49.13	109.28	60.15
5920.25	44.62	PK	139	1.40	H	4.83	49.45	101.69	52.24
5929.91	44.75	PK	251	1.50	V	4.85	49.60	68.20	18.60
11550	38.26	PK	159	1.30	H	14.74	53.00	74.00	21.00

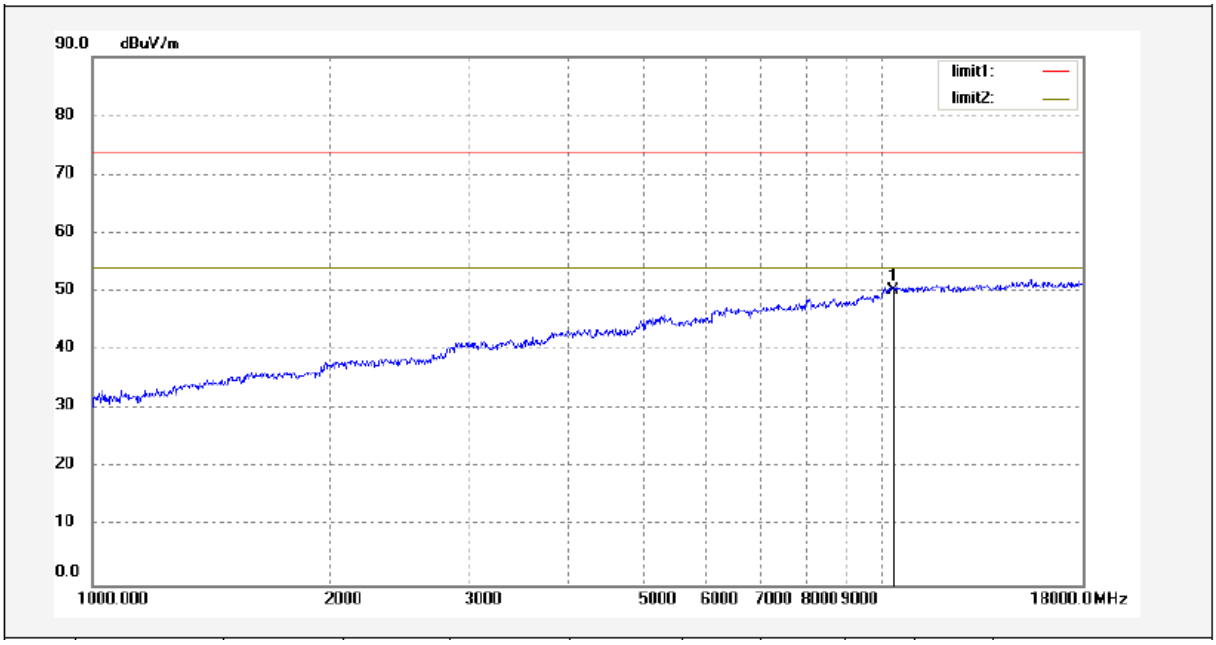
11550	38.08	PK	122	2.10	V	14.74	52.82	74.00	21.18

Note 1:
Corrected Amplitude = Corrected Factor + Reading
Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor
Margin = Limit- Corr. Amplitude
Note 2:
For 18-40GHz, all spurious emissions are 20 dB below the limit or are on the system noise floor level.
The test result of peak was less than the limit of average, so just peak values were recorded.

Pre-scan for Peak
802.11 a Middle Channel
Horizontal



Vertical



FCC §15.407(a) (12), (e) – BANDWIDTH

Applicable Standard

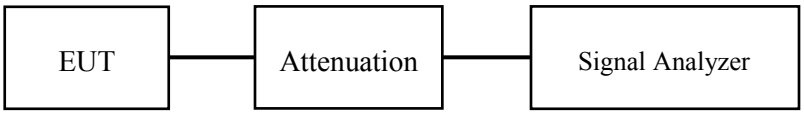
The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Procedure

1. Emission Bandwidth (EBW)
a) Set RBW = approximately 1% of the emission bandwidth.
b) Set the VBW > RBW.
c) Detector = Peak.
d) Trace mode = max hold.
e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

2. **Minimum Emission Bandwidth for the band 5.725-5.85 GHz**
Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:
a) Set RBW = 100 kHz.
b) Set the video bandwidth (VBW) ≥ 3 × RBW.
c) Detector = Peak.
d) Trace mode = max hold.
e) Sweep = auto couple.
f) Allow the trace to stabilize.
g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



Test Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	52 %
ATM Pressure:	101.0 kPa

The testing was performed by Black Ding on 2021-03-12

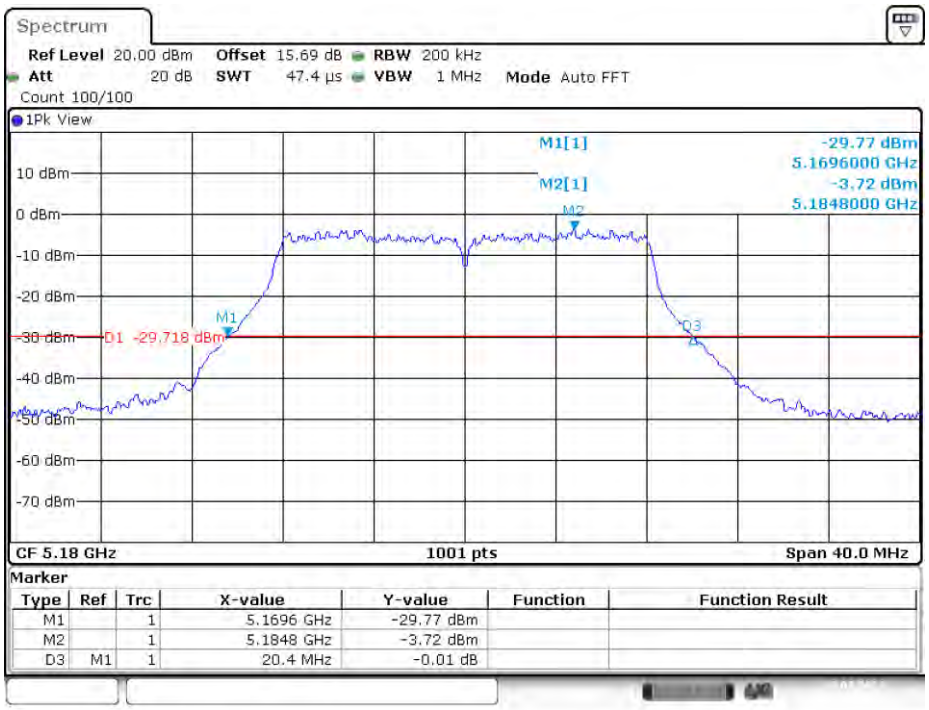
EUT operation mode: Transmitting

Test Result: Pass; please refer to the following tables and plots.

5150 MHz - 5250 MHz:

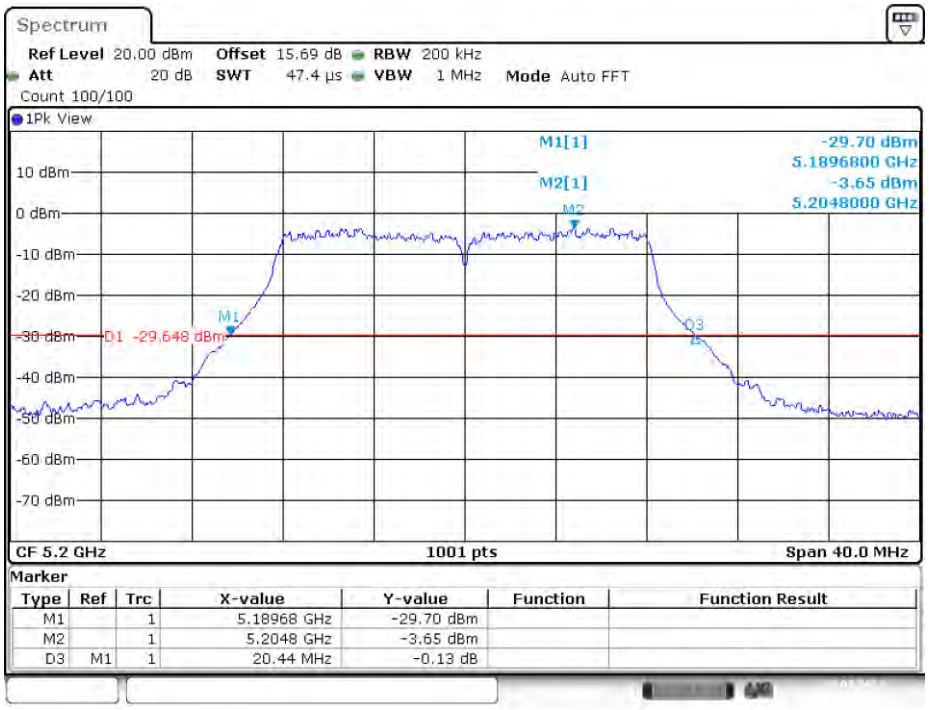
Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)	Remark
802.11a			No transmitted signal in the 99% bandwidth extends into the U-NII-2A band
5180	20.400	17.223	
5200	20.440	17.263	
5240	20.520	17.263	
802.11n20			
5180	20.640	18.182	
5200	21.280	18.182	
5240	21.320	18.182	
802.11n40			
5190	43.040	36.843	
5230	43.040	36.843	
802.11ac20			
5180	21.240	18.182	
5200	21.280	18.222	
5240	21.200	18.222	
802.11ac40			
5190	42.960	36.843	
5230	43.120	36.843	
802.11ac80			
5210	83.200	76.084	

802.11a mode, 26 dB Emissions, 5180 MHz



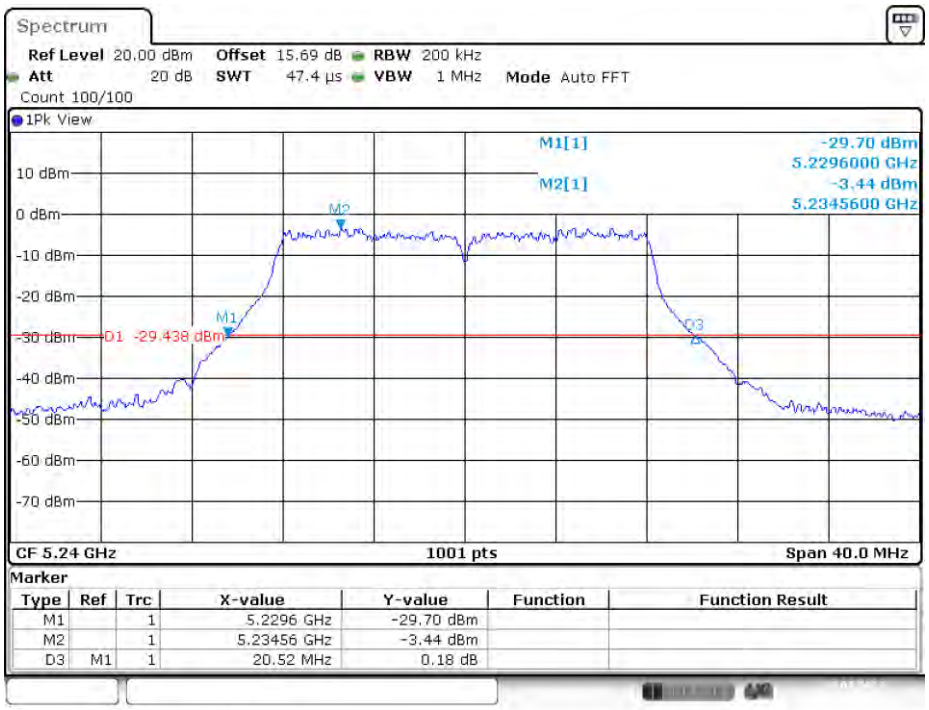
Date: 12.MAR.2021 09:59:17

802.11a mode, 26 dB Emissions, 5200 MHz

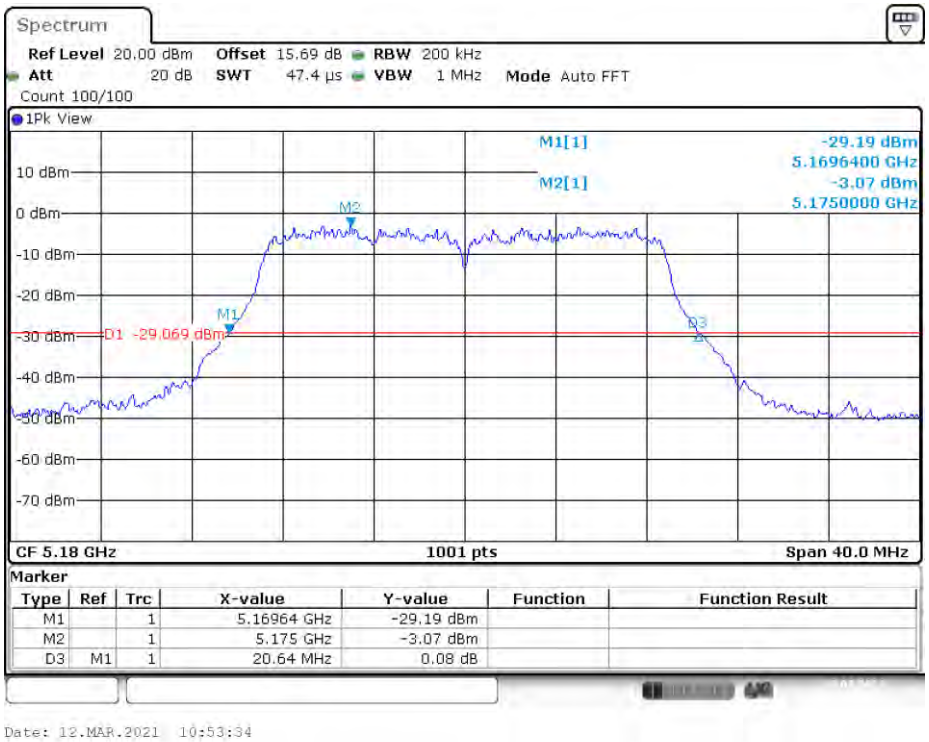


Date: 12.MAR.2021 10:17:34

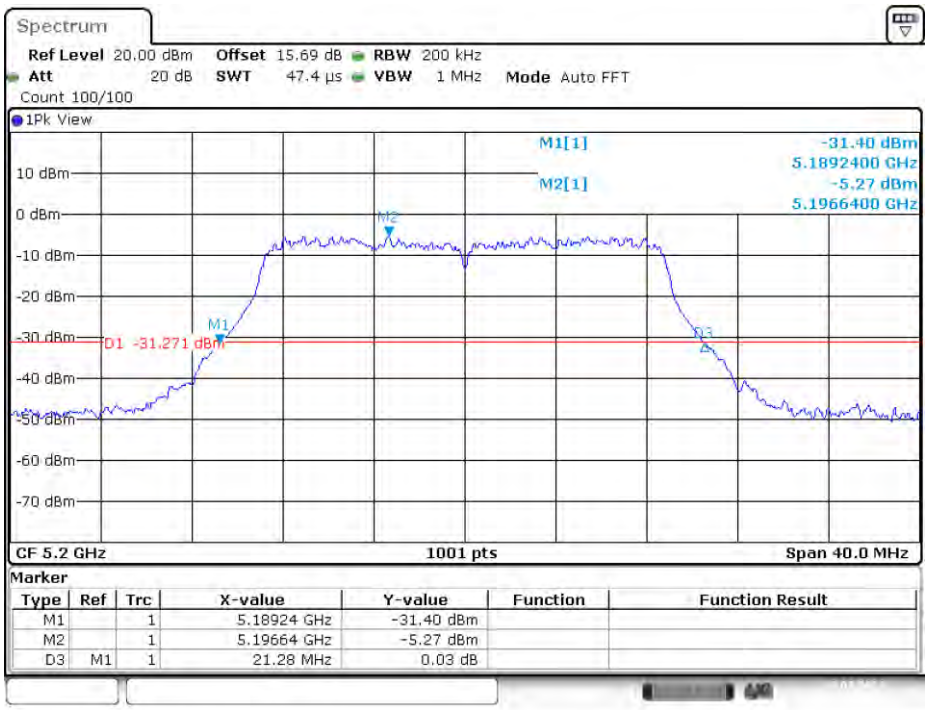
802.11a mode, 26 dB Emissions, 5240 MHz



802.11n20 mode, 26 dB Emissions, 5180 MHz

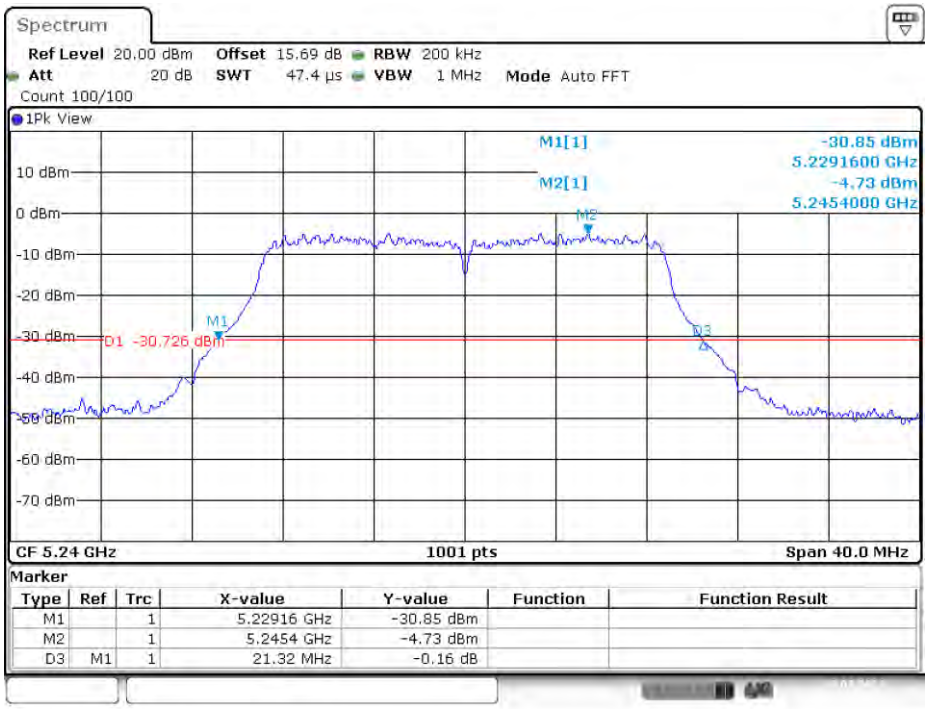


802.11n20 mode, 26 dB Emissions, 5200 MHz



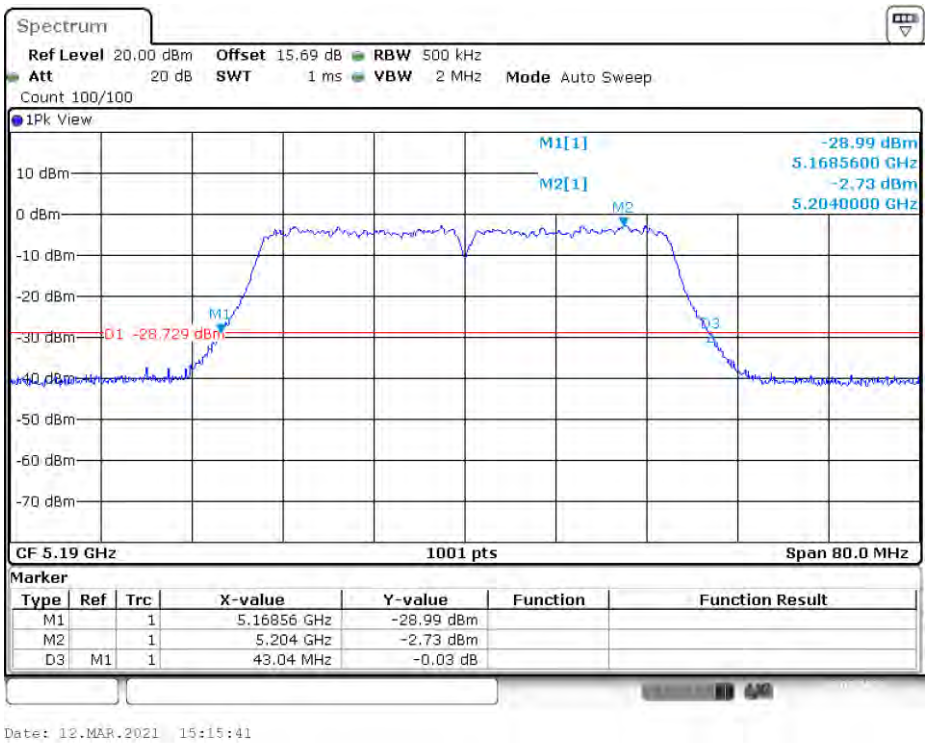
Date: 12.MAR.2021 11:02:43

802.11n20 mode, 26 dB Emissions, 5240 MHz



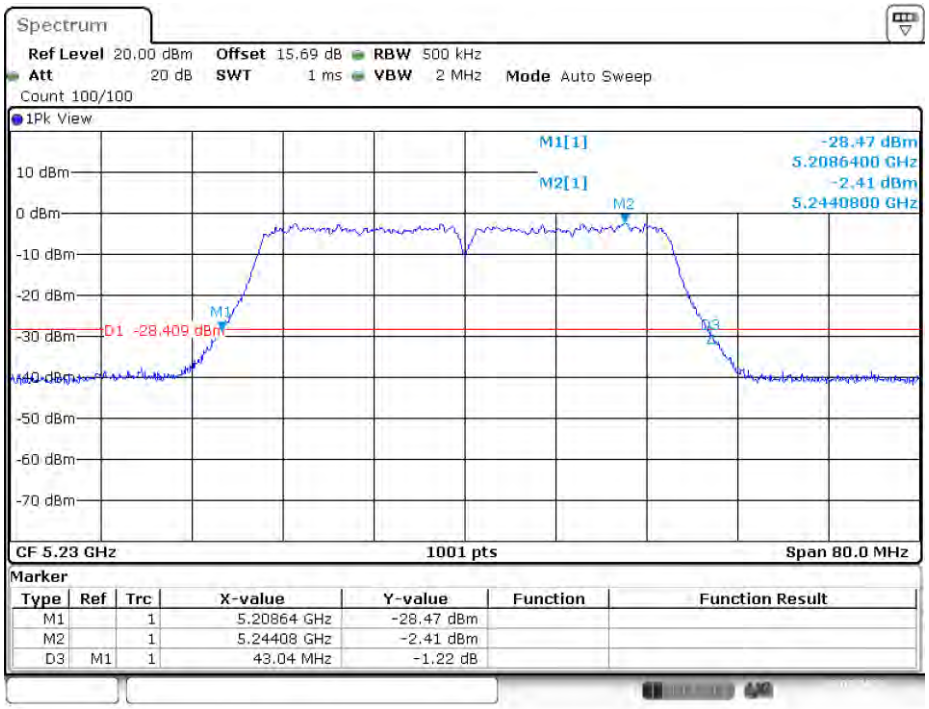
Date: 12.MAR.2021 11:11:42

802.11n40 mode, 26 dB Emissions, 5190 MHz



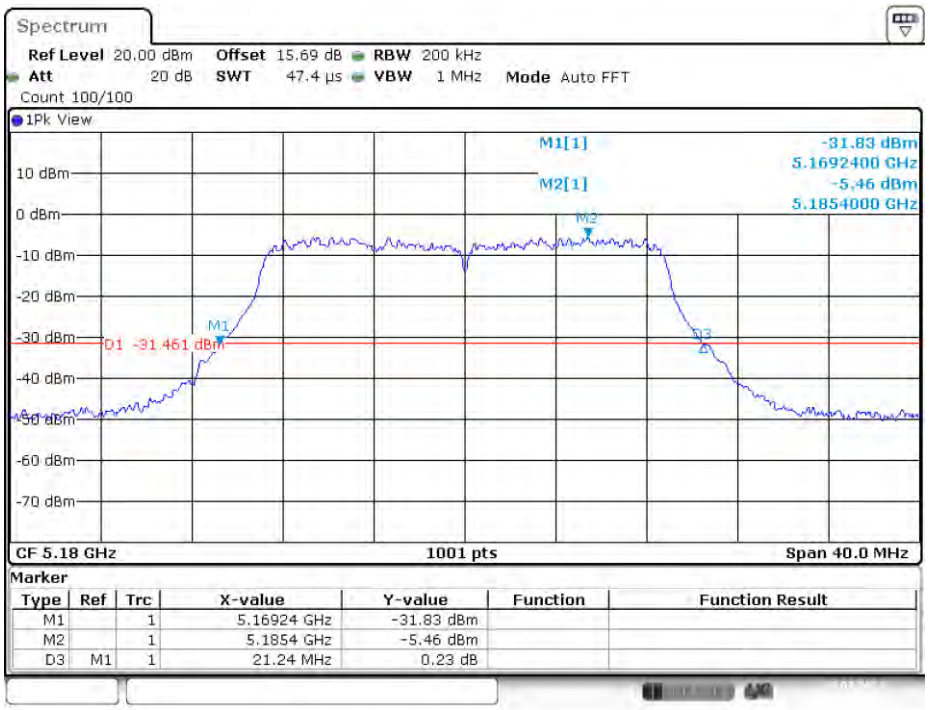
Date: 12.MAR.2021 15:15:41

802.11n40 mode, 26 dB Emissions, 5230 MHz

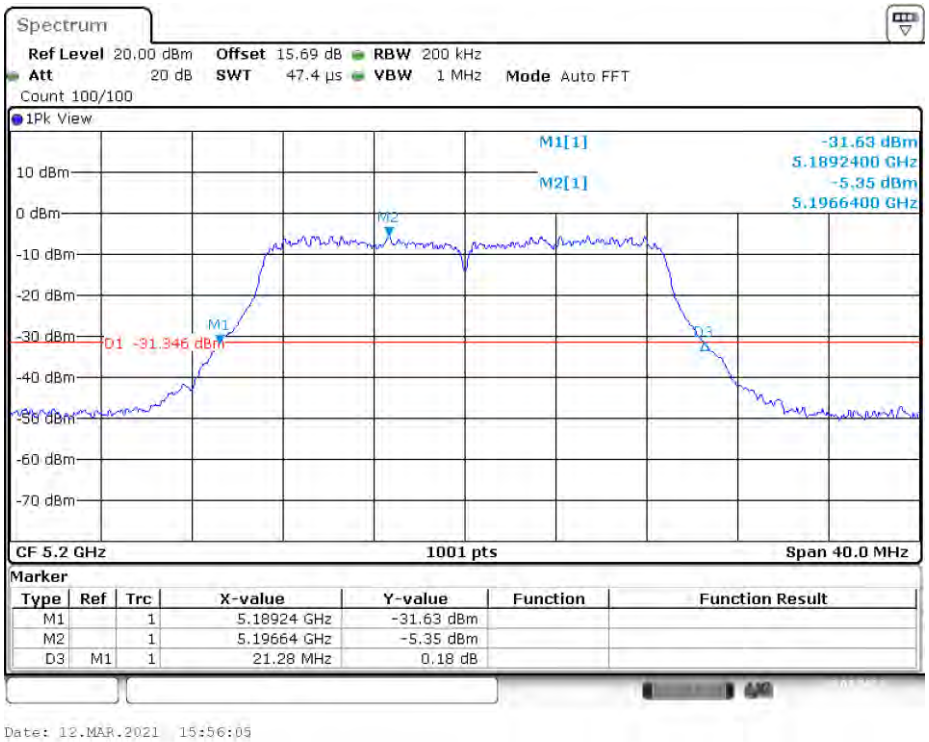


Date: 12.MAR.2021 15:25:57

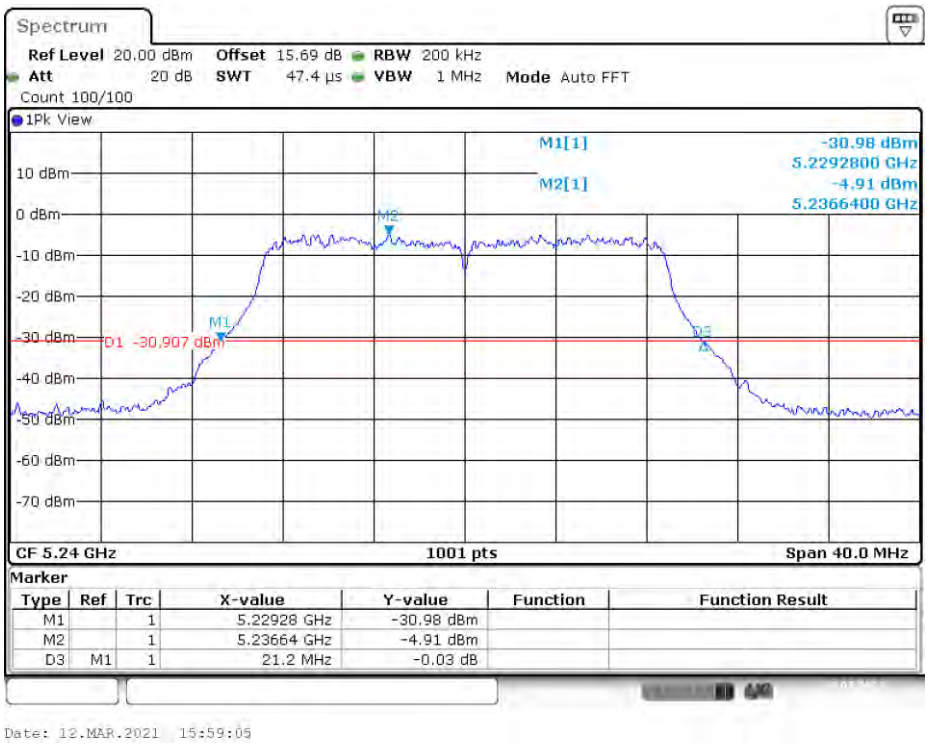
802.11ac20 mode, 26 dB Emissions, 5180 MHz



802.11ac20 mode, 26 dB Emissions, 5200 MHz

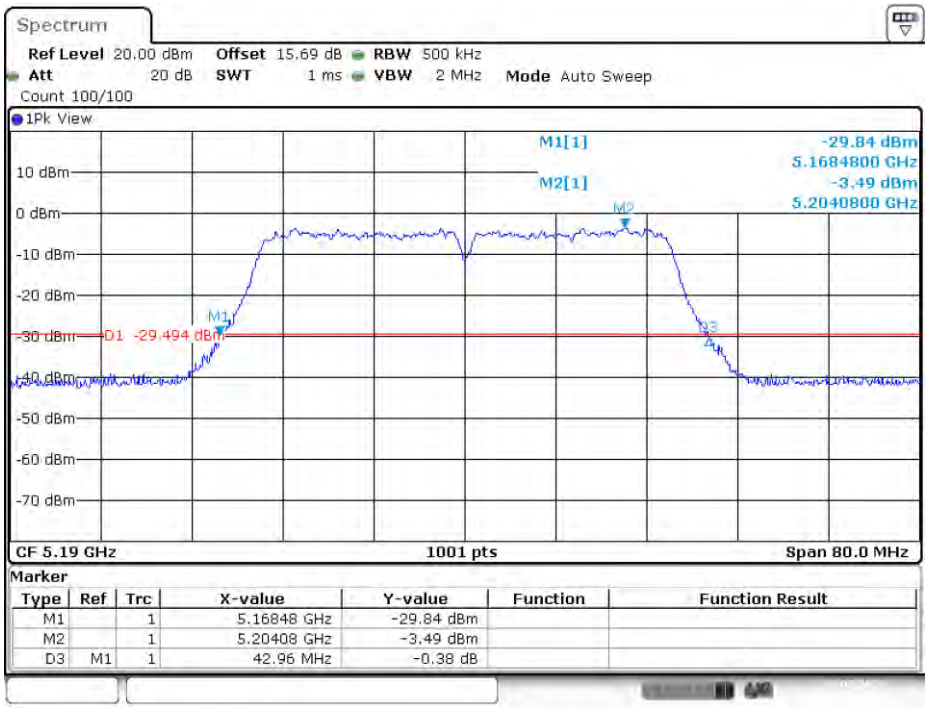


802.11ac20 mode, 26 dB Emissions, 5240 MHz



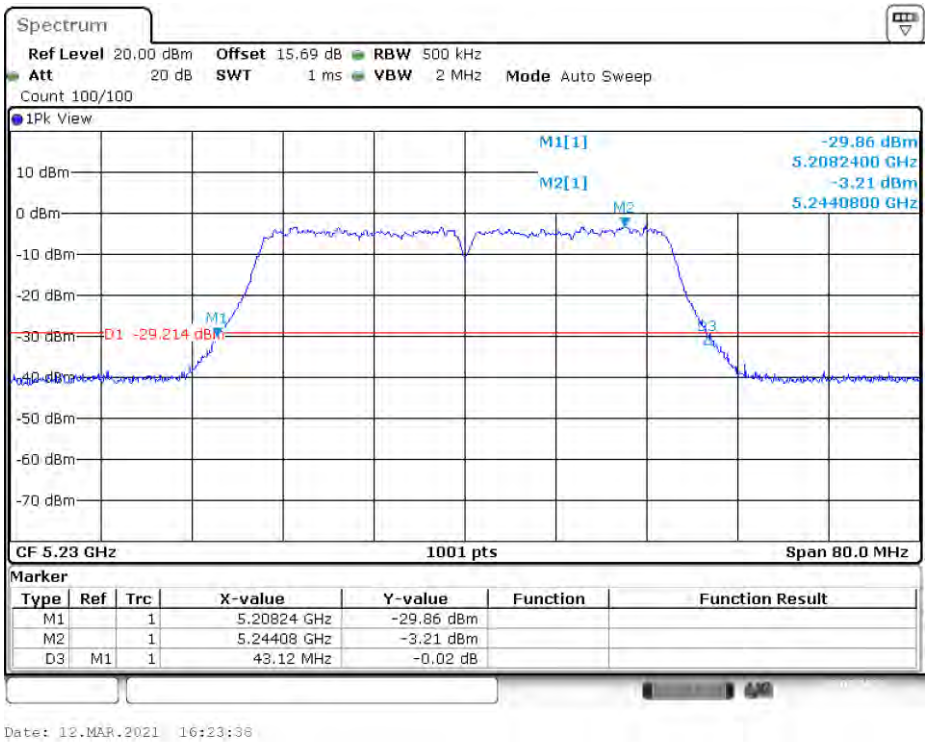
Date: 12.MAR.2021 15:59:05

802.11ac40 mode, 26 dB Emissions, 5190 MHz



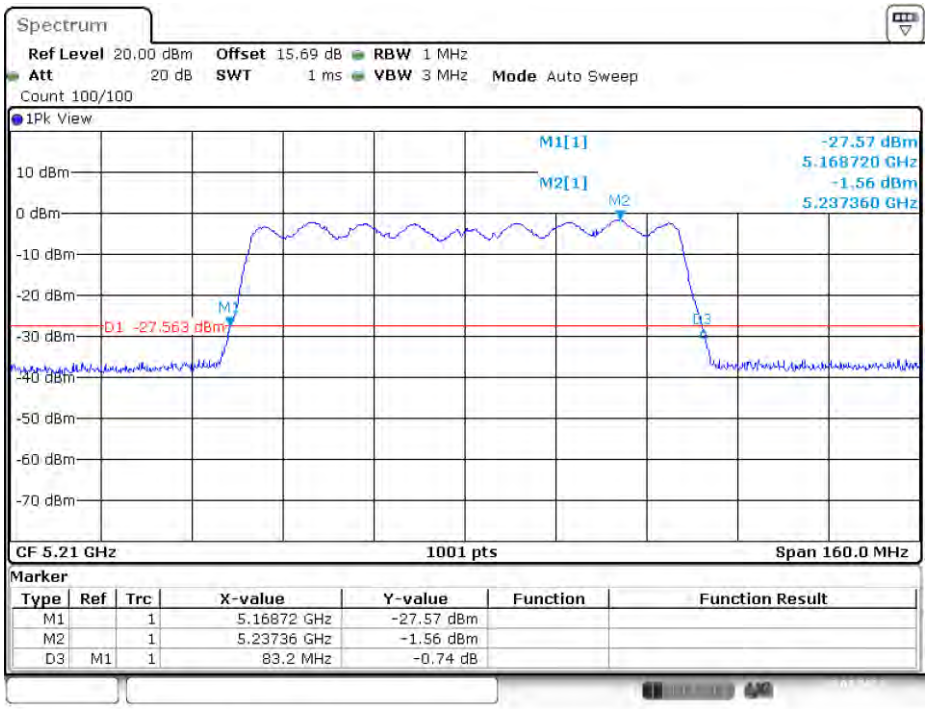
Date: 12.MAR.2021 16:19:56

802.11ac40 mode, 26 dB Emissions, 5230 MHz



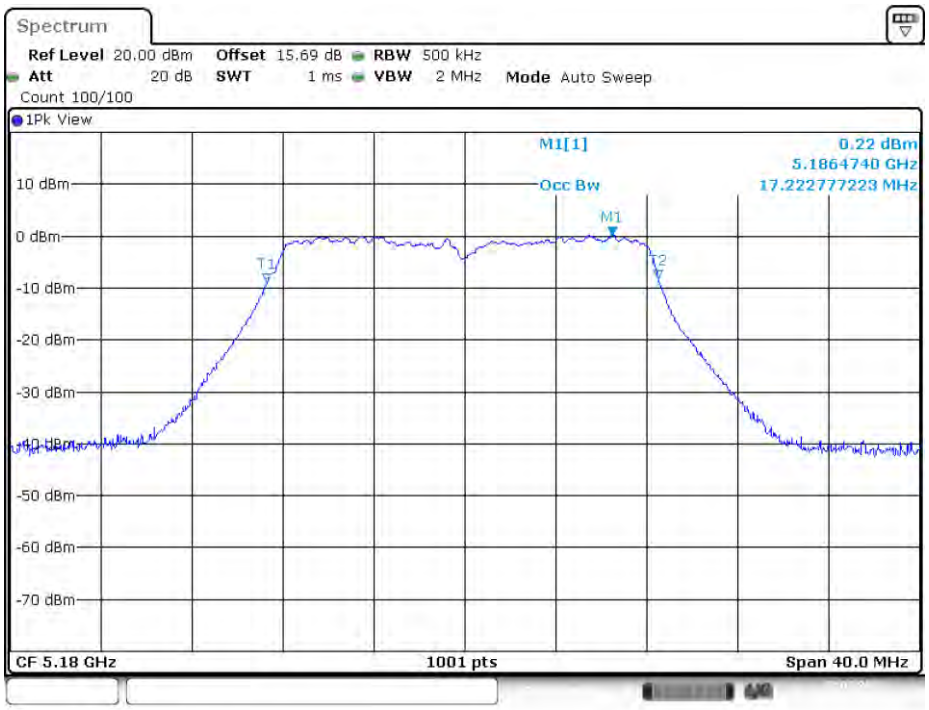
Date: 12.MAR.2021 16:23:38

802.11ac80 mode, 26 dB Emissions, 5210 MHz

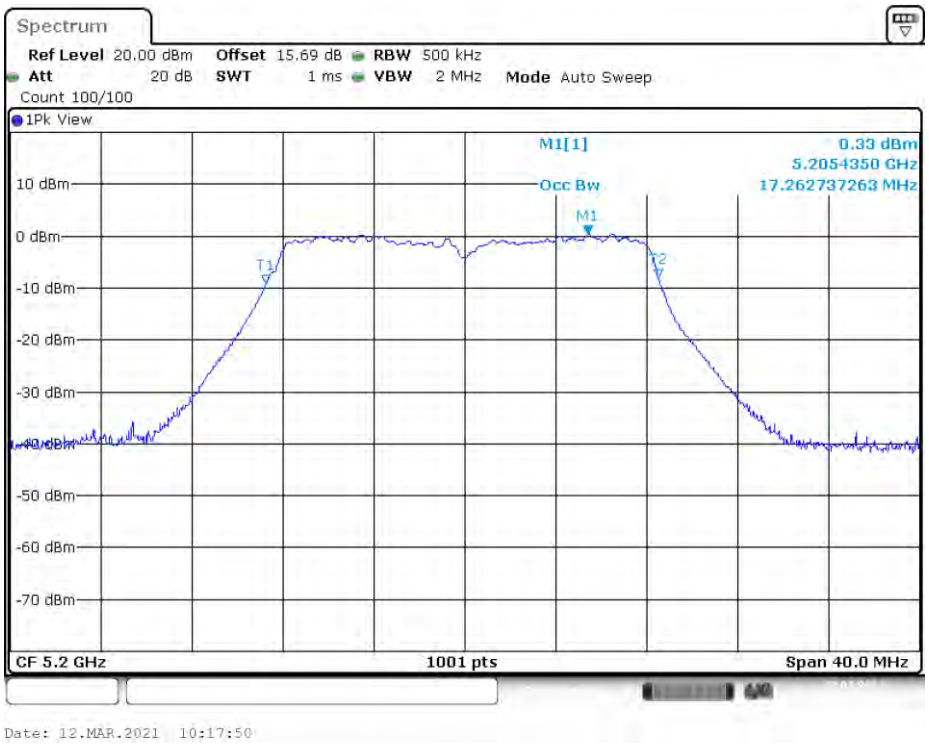


Date: 12.MAR.2021 16:35:36

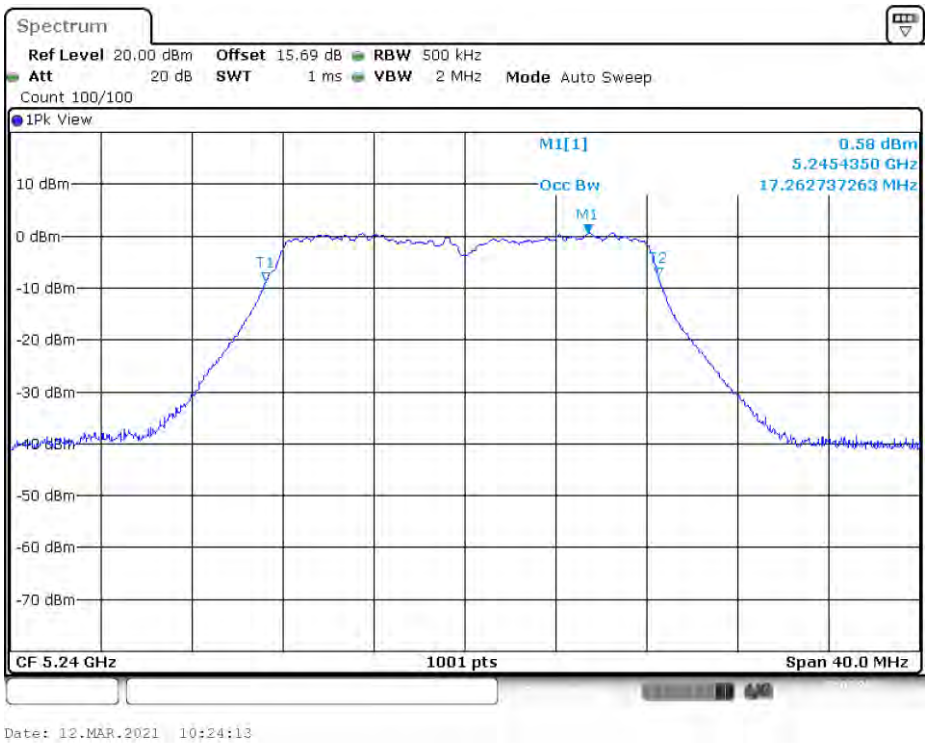
802.11a mode, 99% Occupied Bandwidth, 5180 MHz



802.11a mode, 99% Occupied Bandwidth, 5200 MHz

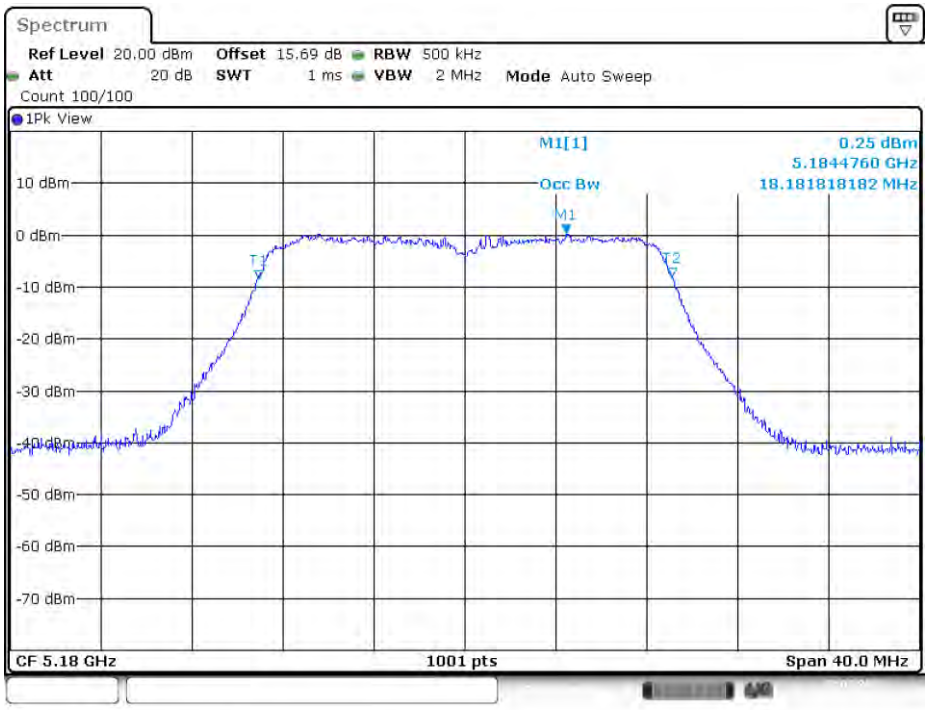


802.11a mode, 99% Occupied Bandwidth, 5240 MHz



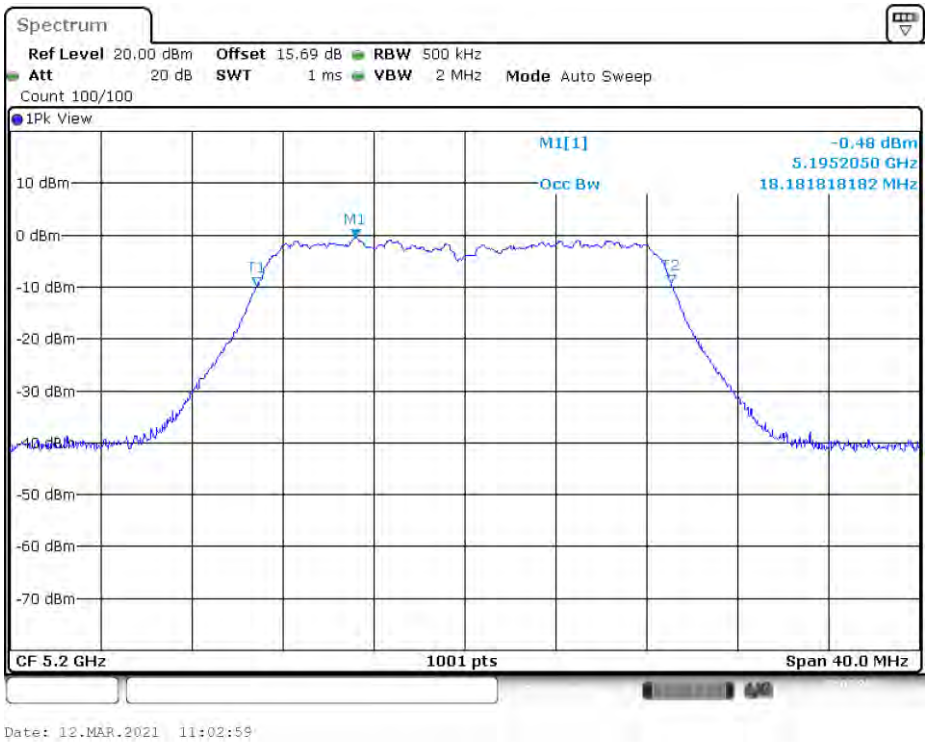
Date: 12.MAR.2021 10:24:13

802.11n20 mode, 99% Occupied Bandwidth, 5180 MHz



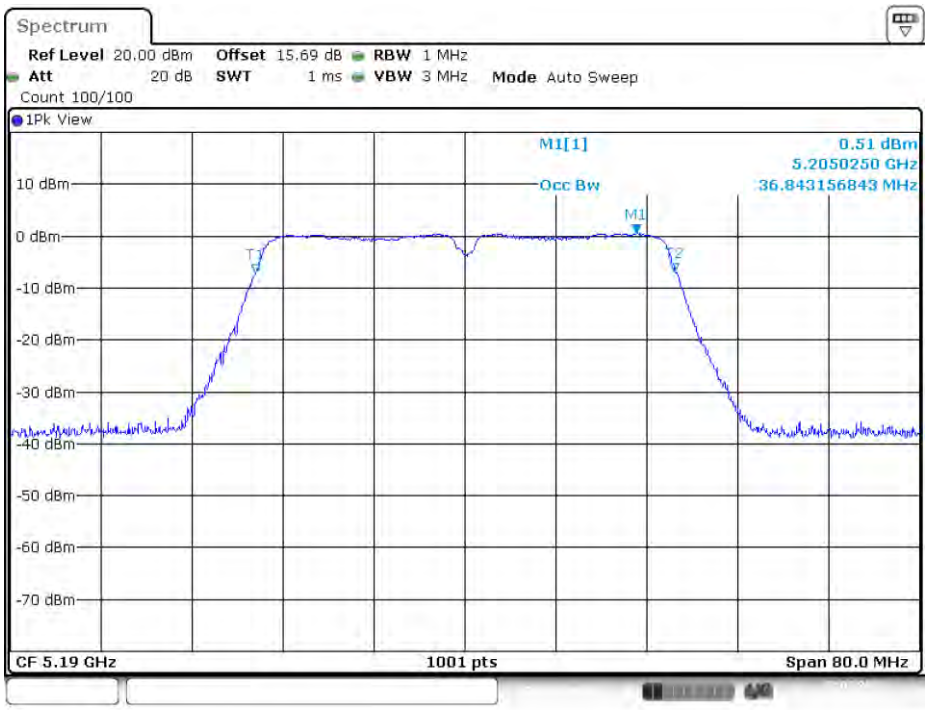
Date: 12.MAR.2021 10:53:50

802.11n20 mode, 99% Occupied Bandwidth, 5200 MHz



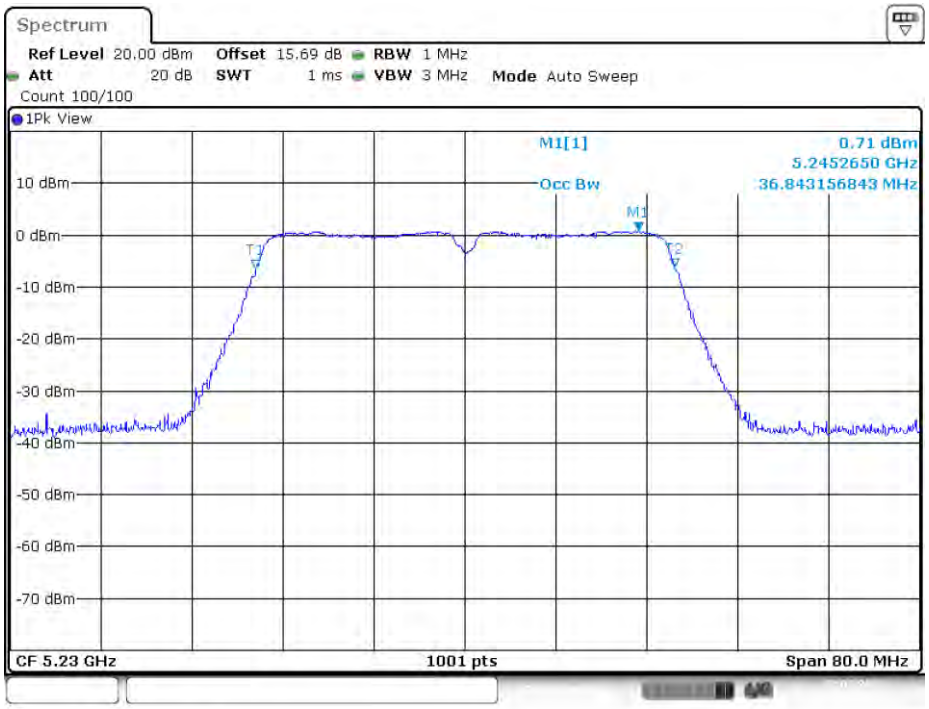
802.11n20 mode, 99% Occupied Bandwidth, 5240 MHz

802.11n40 mode, 99% Occupied Bandwidth, 5190 MHz



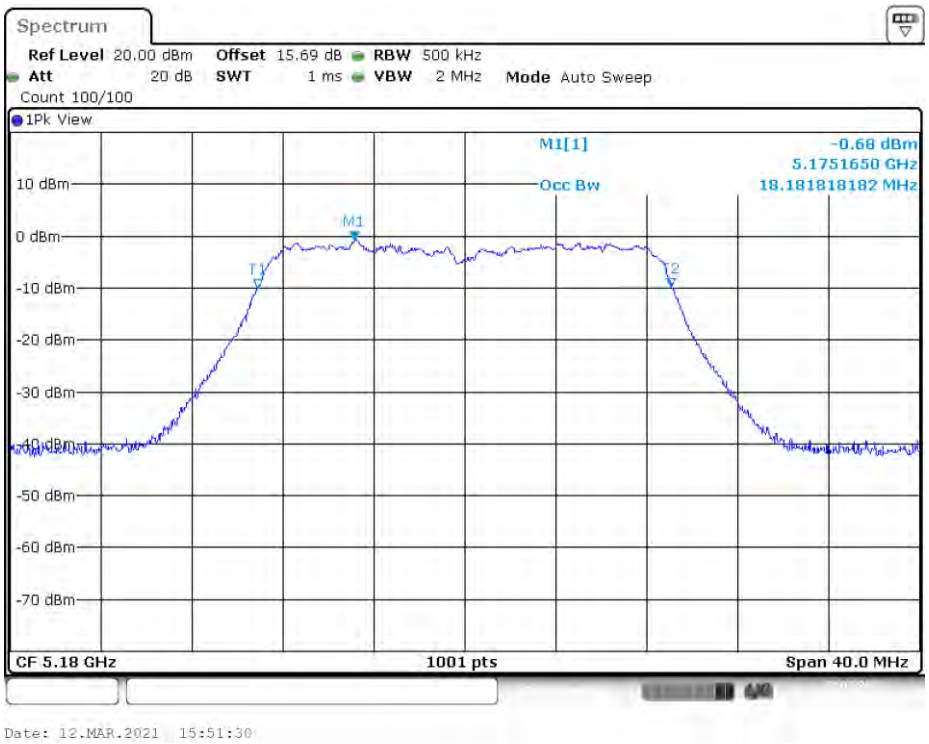
Date: 12.MAR.2021 15:15:57

802.11n40 mode, 99% Occupied Bandwidth, 5230 MHz

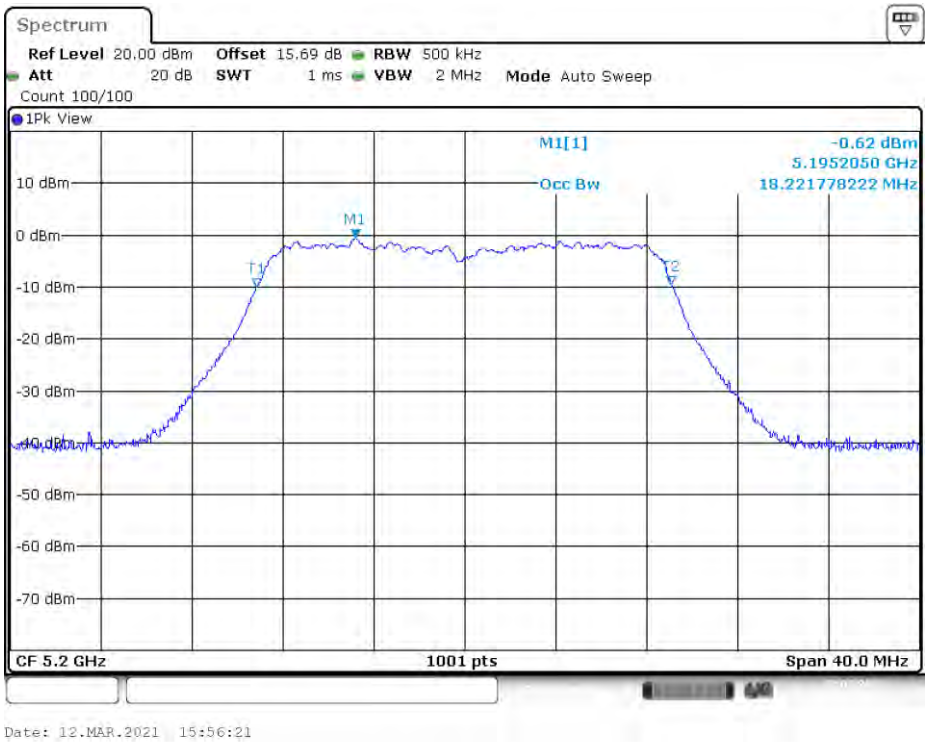


Date: 12.MAR.2021 15:26:13

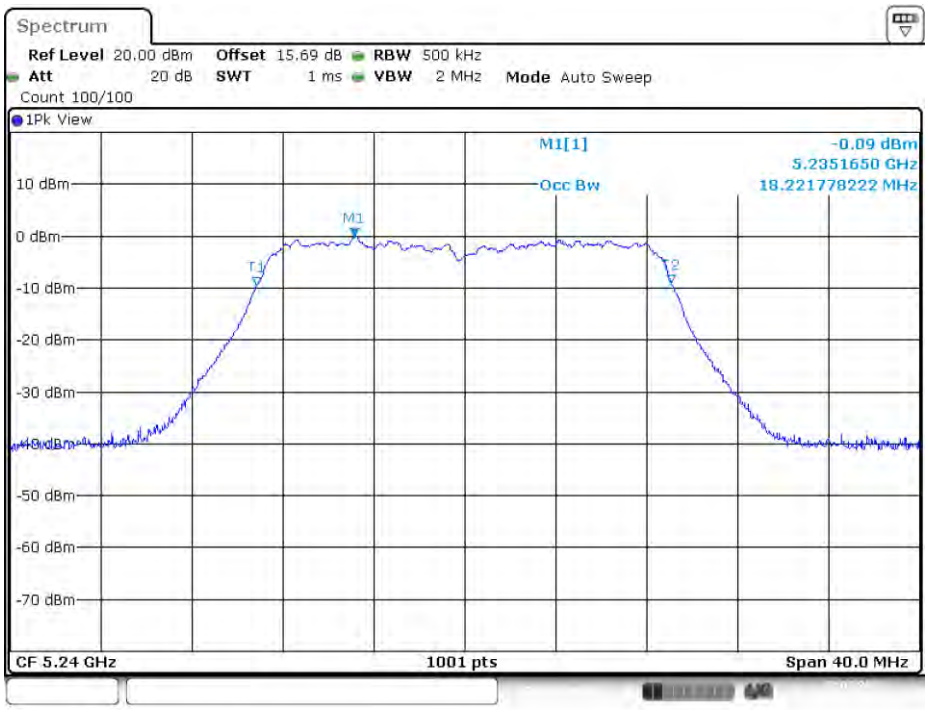
802.11ac20 mode, 99% Occupied Bandwidth, 5180 MHz



802.11ac20 mode, 99% Occupied Bandwidth, 5200 MHz

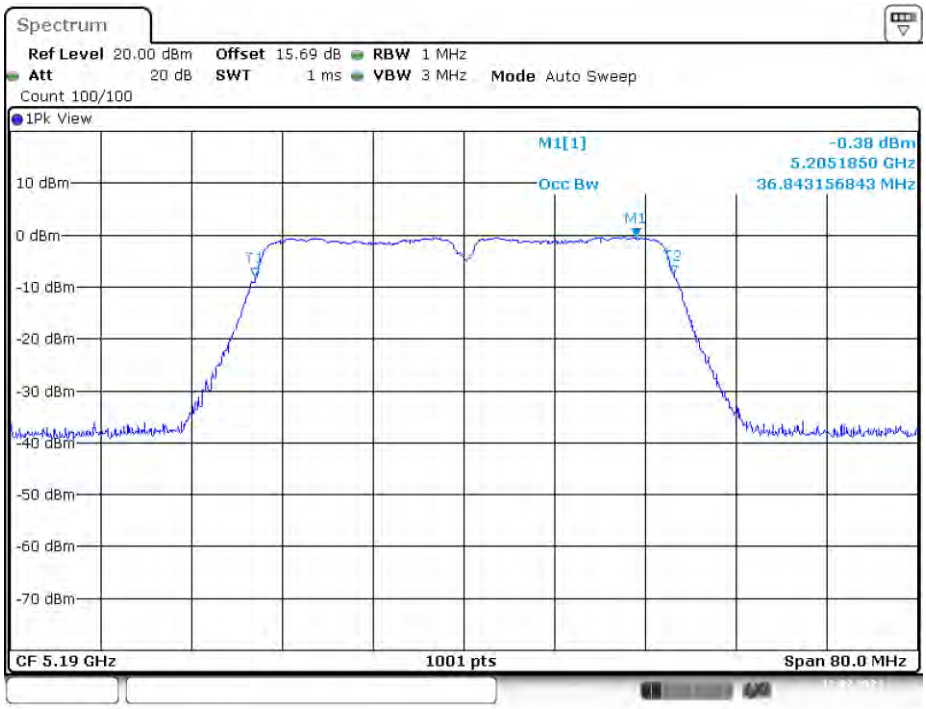


802.11ac20 mode, 99% Occupied Bandwidth, 5240 MHz



Date: 12.MAR.2021 15:59:21

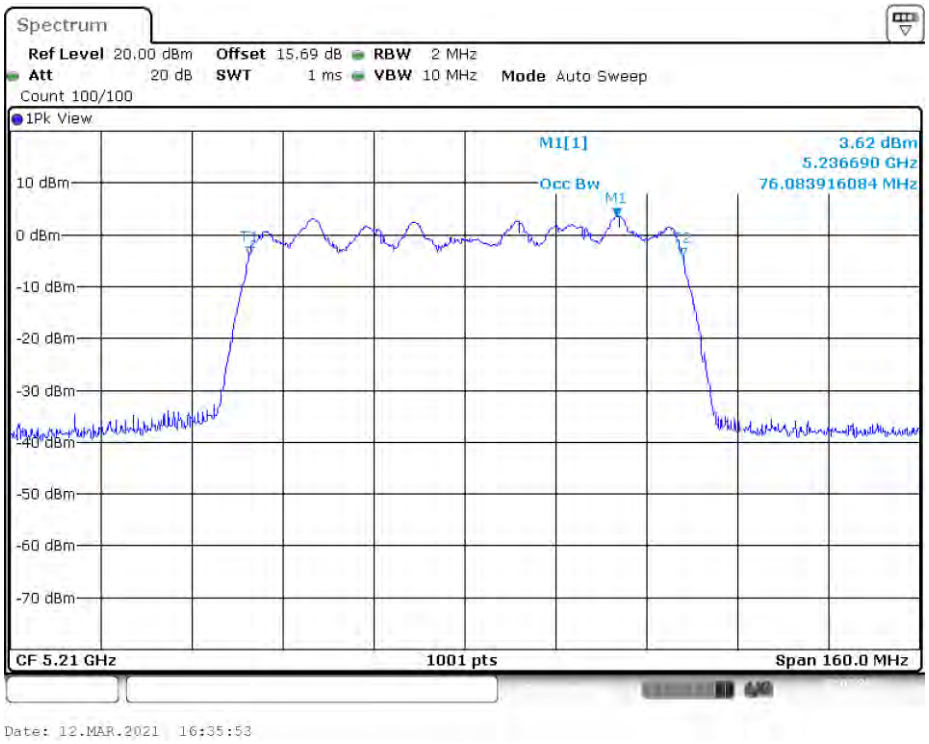
802.11ac40 mode, 99% Occupied Bandwidth, 5190 MHz



Date: 12.MAR.2021 16:20:12

802.11ac40 mode, 99% Occupied Bandwidth, 5230 MHz

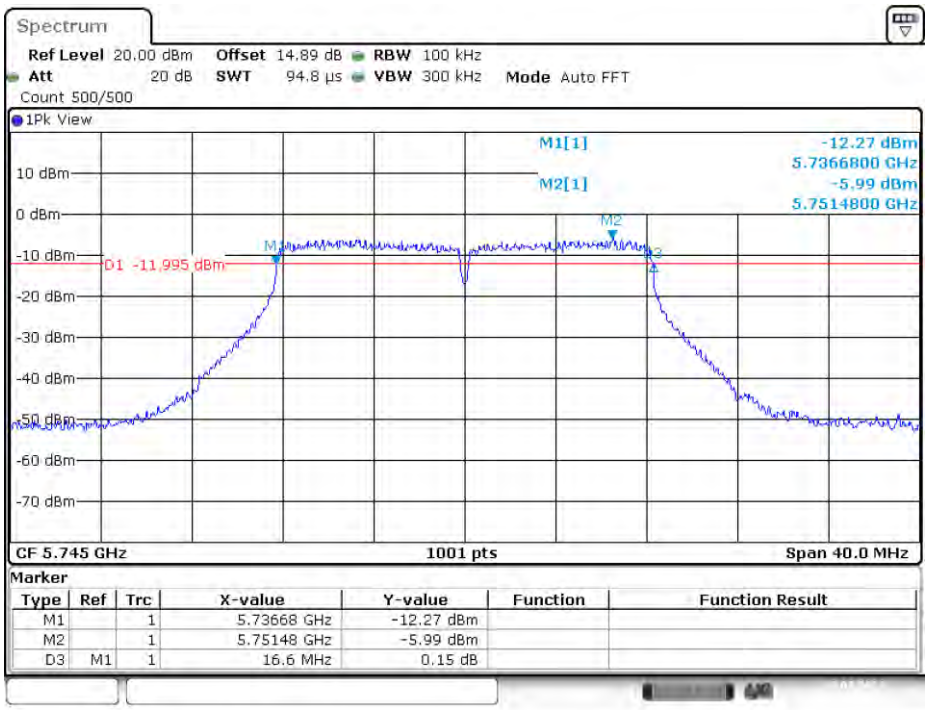
802.11ac80 mode, 99% Occupied Bandwidth, 5210 MHz



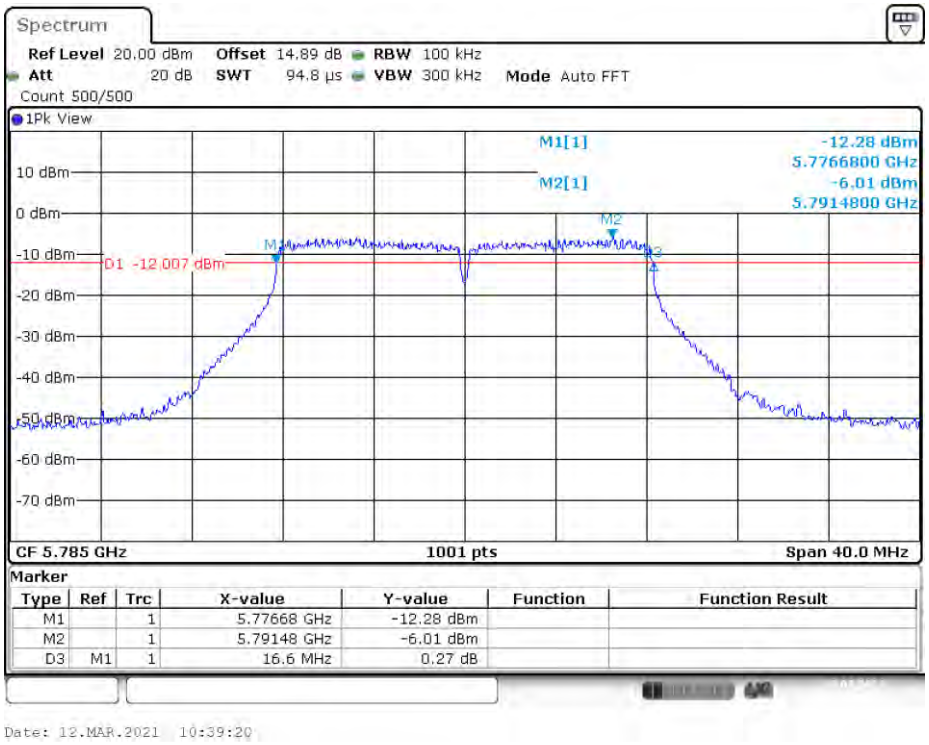
5725 MHz – 5850 MHz:

Frequency (MHz)	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)	Remark
802.11a				No transmitted signal in the 99% bandwidth extends into the U-NII-2C band
5745	16.600	17.223	0.5	
5785	16.600	17.263	0.5	
5825	16.640	17.263	0.5	
802.11n20				
5745	17.680	18.182	0.5	
5785	17.680	18.142	0.5	
5825	17.680	18.182	0.5	
802.11n40				
5755	36.640	36.923	0.5	
5795	36.640	36.923	0.5	
802.11ac20				
5745	17.680	18.222	0.5	
5785	17.680	18.182	0.5	
5825	17.680	18.222	0.5	
802.11ac40				
5755	36.640	36.923	0.5	
5795	36.640	36.923	0.5	
802.11ac80				
5775	76.800	76.084	0.5	

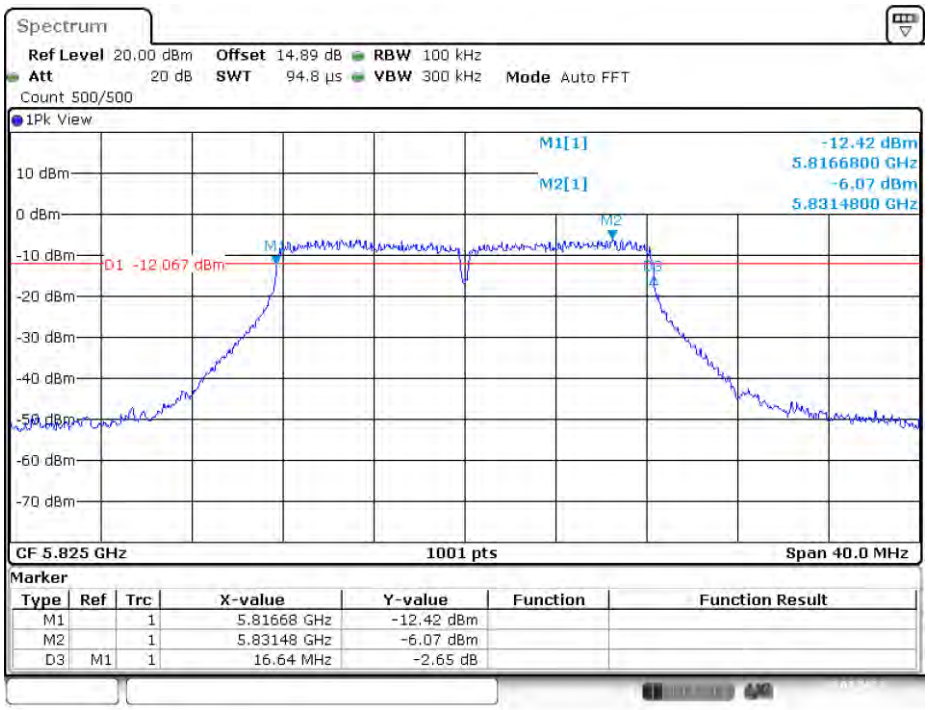
802.11a mode, 6dB Emission Bandwidth, 5745 MHz



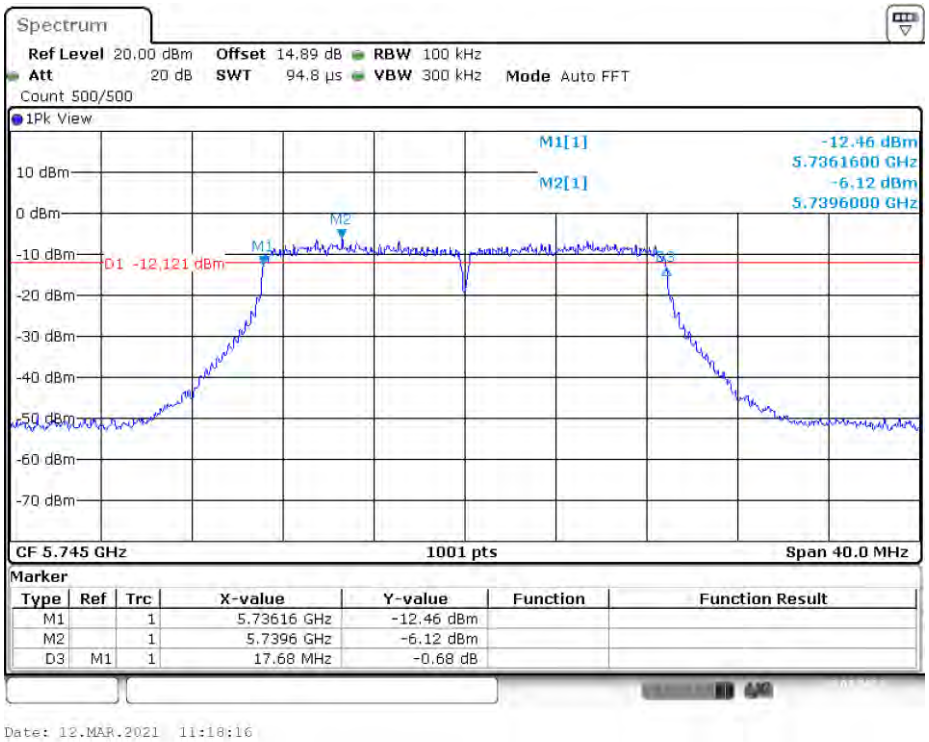
802.11a mode, 6dB Emission Bandwidth, 5785 MHz



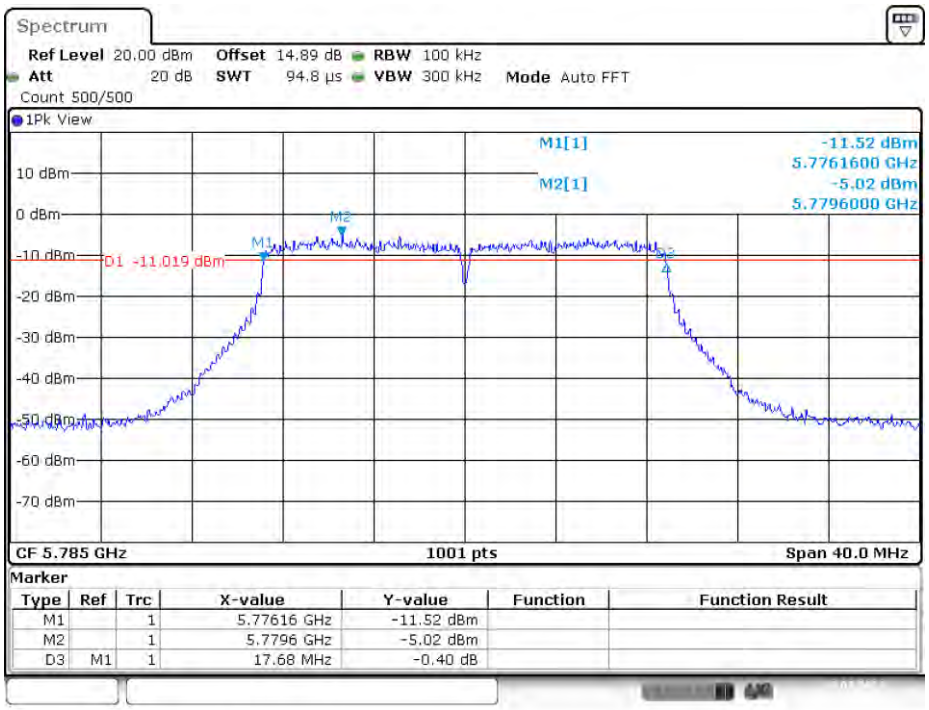
802.11a mode, 6dB Emission Bandwidth, 5825 MHz



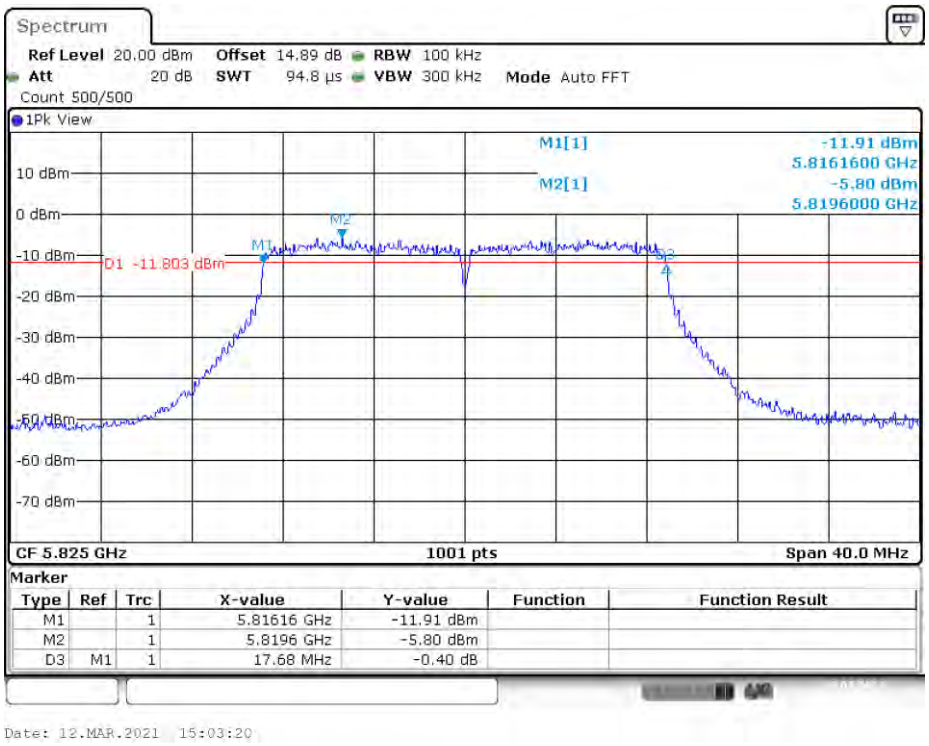
802.11n20 mode, 6dB Emission Bandwidth, 5745 MHz



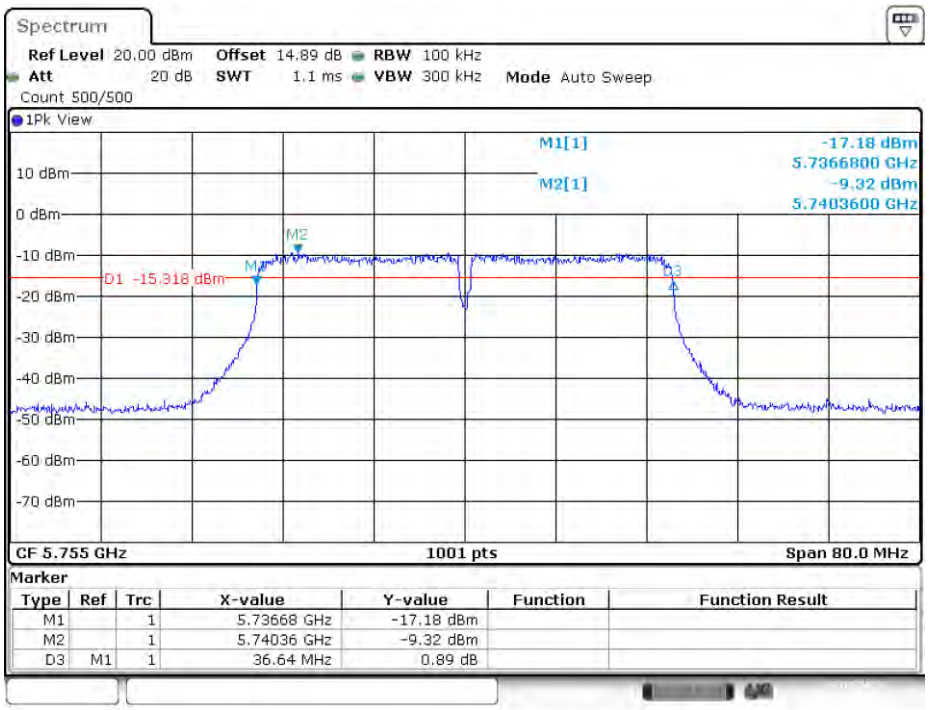
802.11n20 mode, 6dB Emission Bandwidth, 5785 MHz



802.11n20 mode, 6dB Emission Bandwidth, 5825 MHz

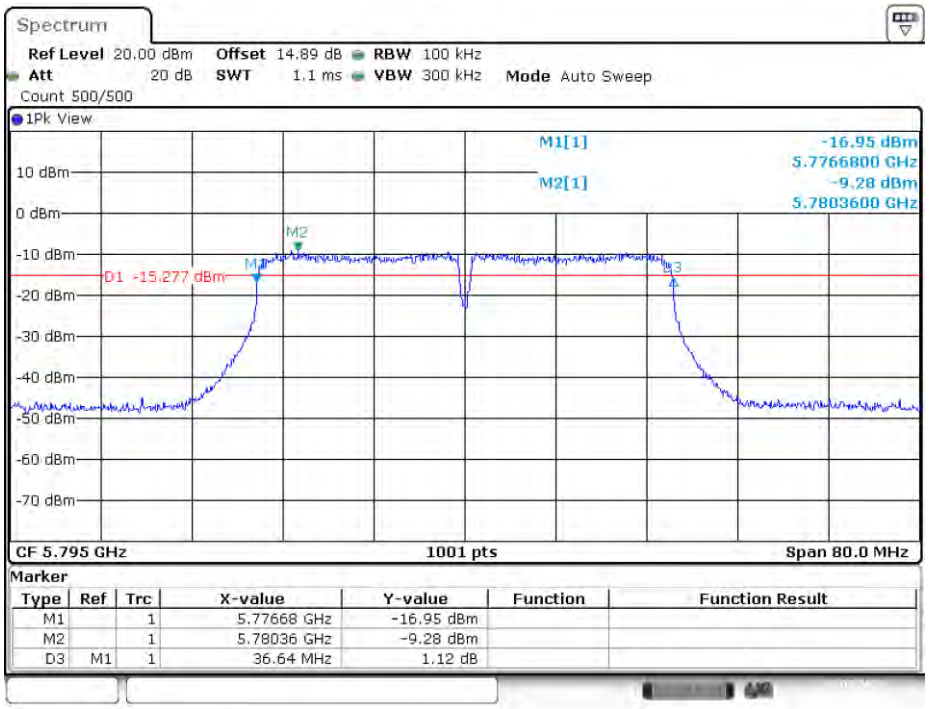


802.11n40 mode, 6dB Emission Bandwidth, 5755 MHz



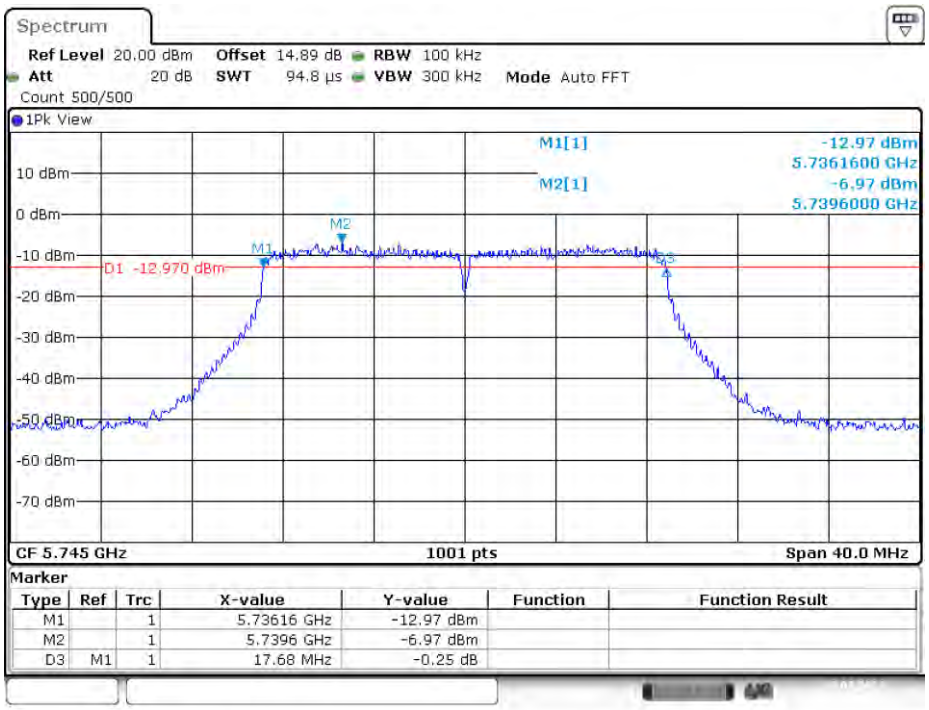
Date: 12.MAR.2021 15:35:24

802.11n40 mode, 6dB Emission Bandwidth, 5795 MHz



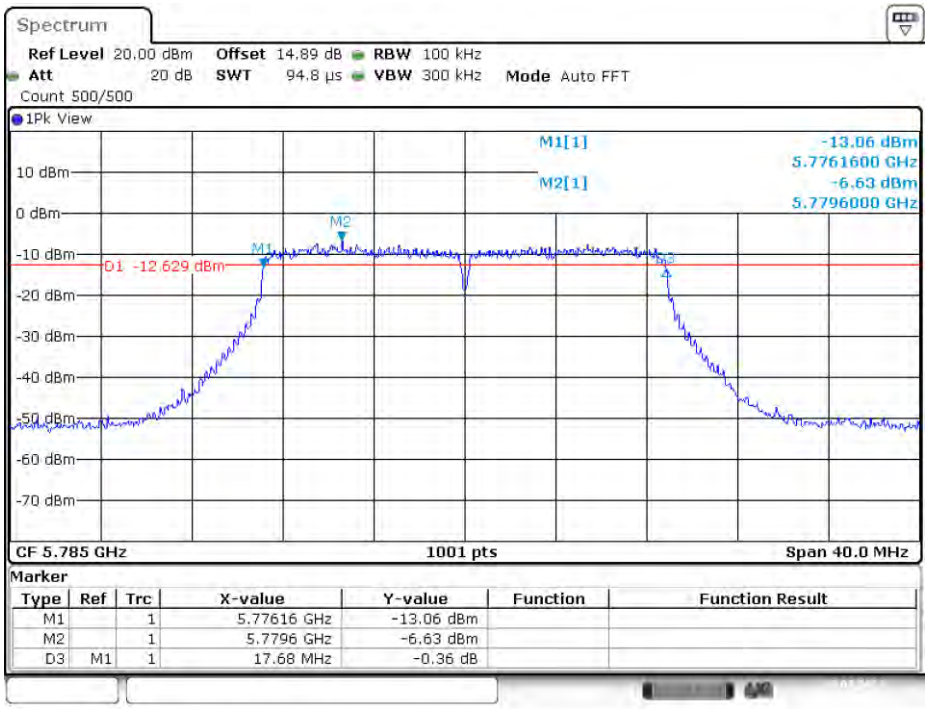
Date: 12.MAR.2021 15:43:39

802.11ac20 mode, 6dB Emission Bandwidth, 5745 MHz



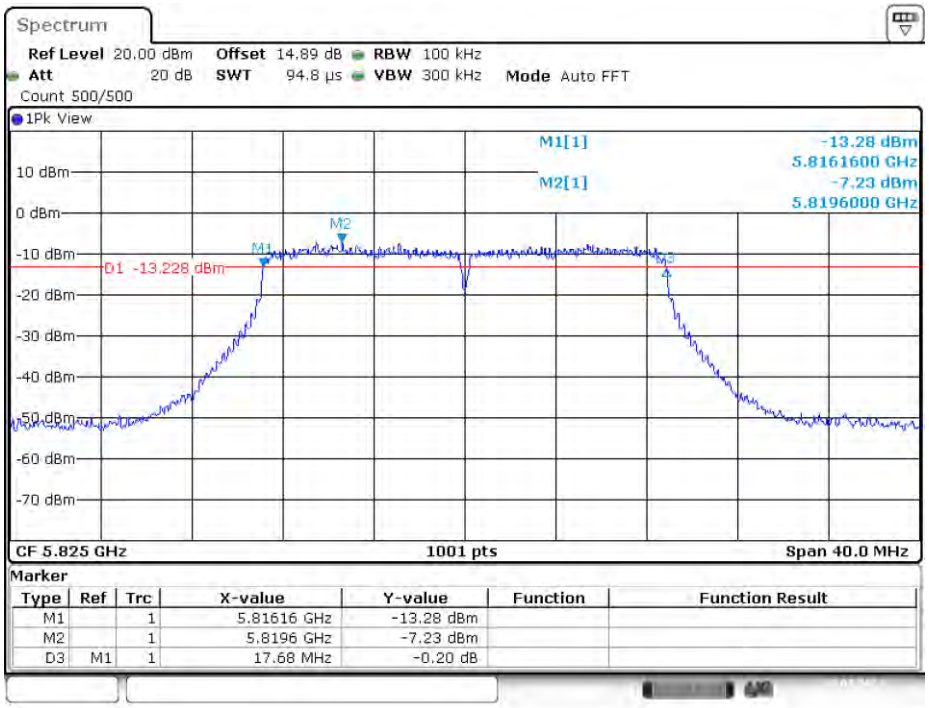
Date: 12.MAR.2021 16:04:55

802.11ac20 mode, 6dB Emission Bandwidth, 5785 MHz



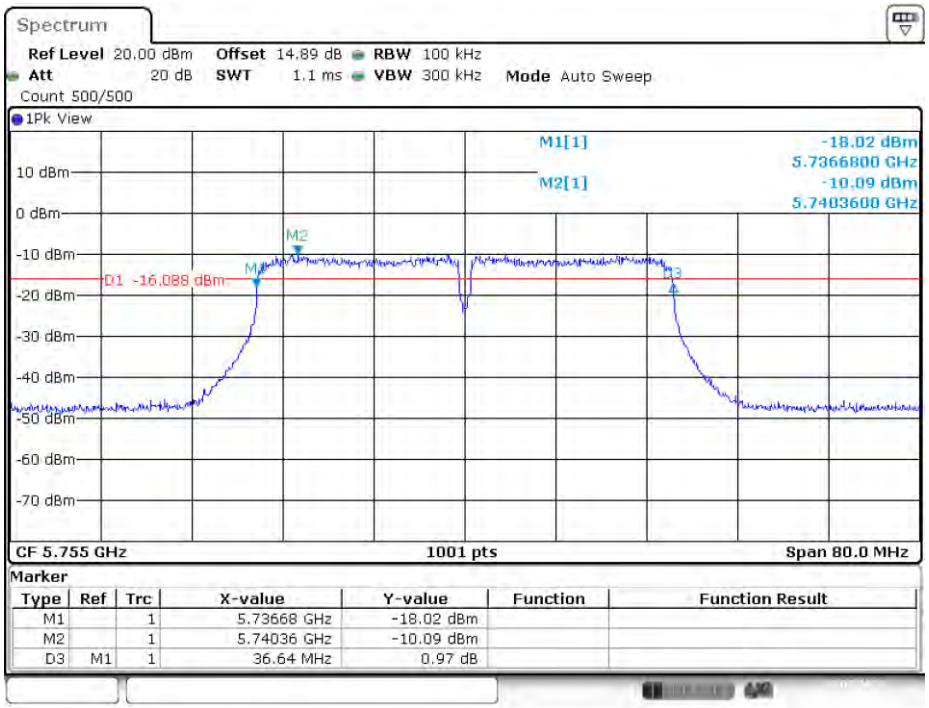
Date: 12.MAR.2021 16:08:56

802.11ac20 mode, 6dB Emission Bandwidth, 5825 MHz



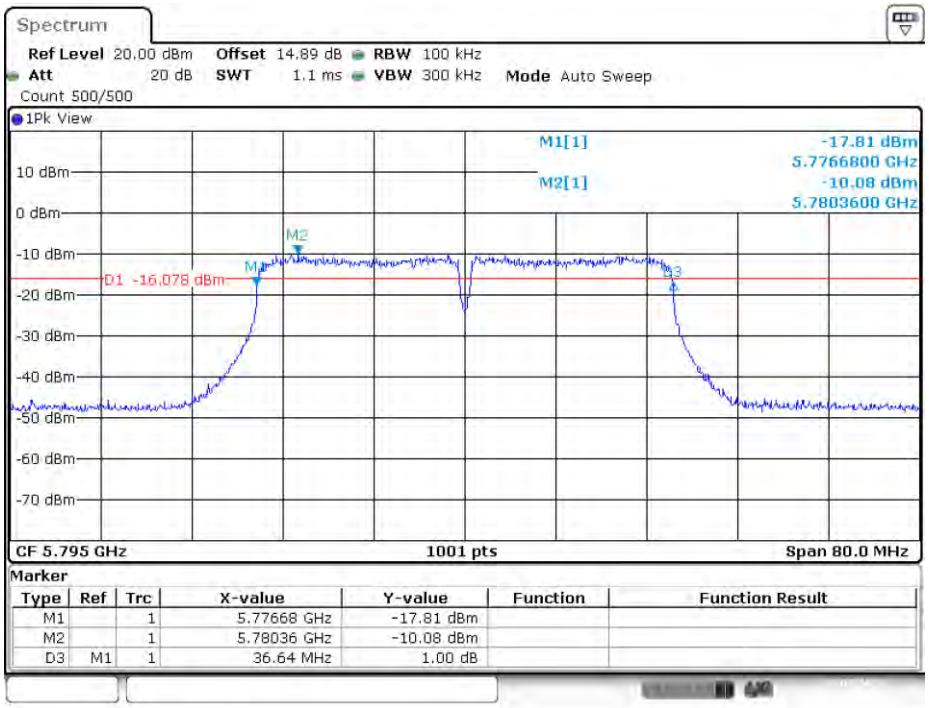
Date: 12.MAR.2021 16:11:43

802.11ac40 mode, 6dB Emission Bandwidth, 5755 MHz



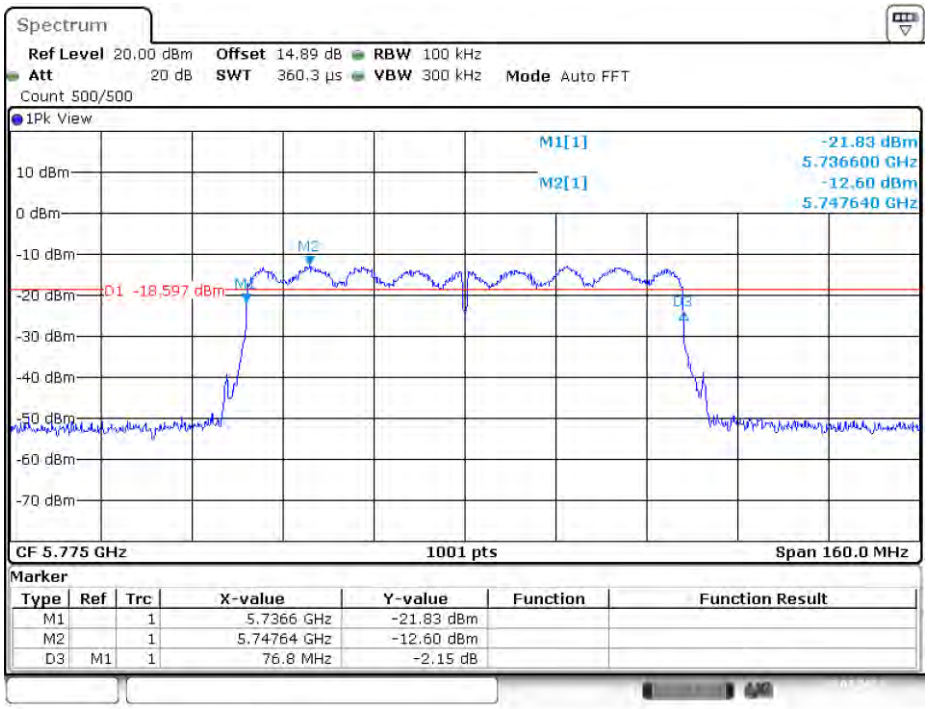
Date: 12.MAR.2021 16:27:50

802.11ac40 mode, 6dB Emission Bandwidth, 5795 MHz



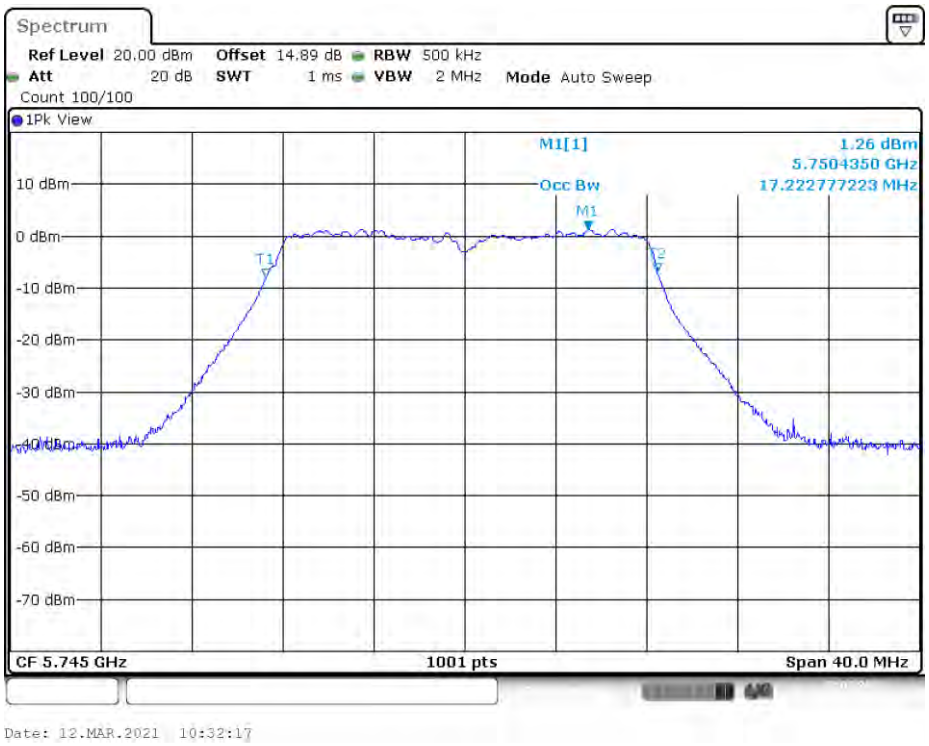
Date: 12.MAR.2021 16:31:52

802.11ac80 mode, 6dB Emission Bandwidth, 5775 MHz

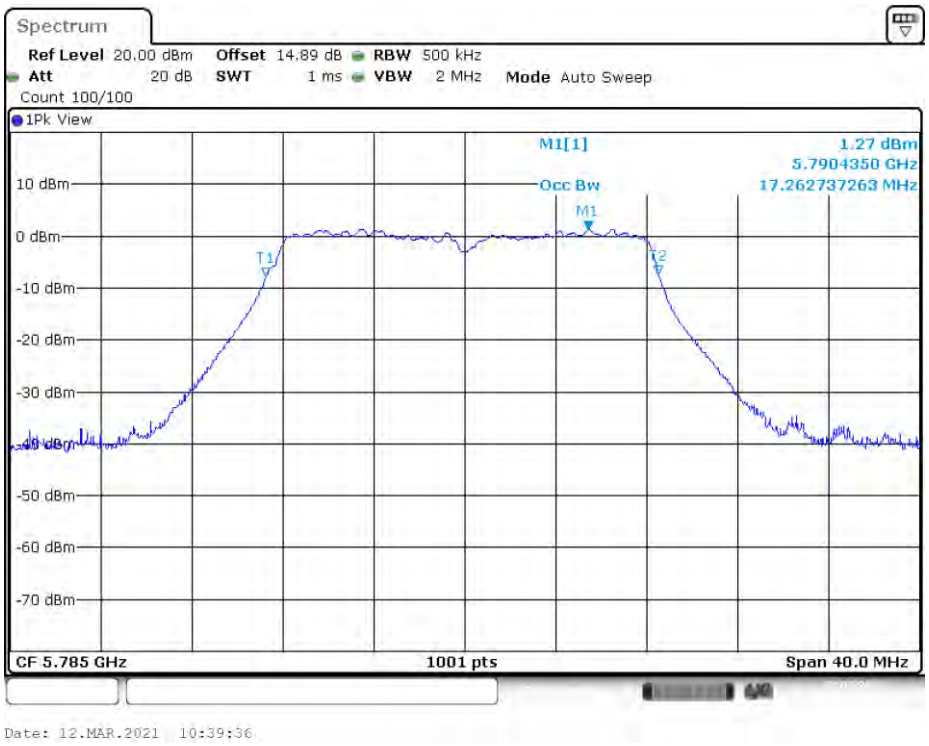


Date: 12.MAR.2021 16:45:07

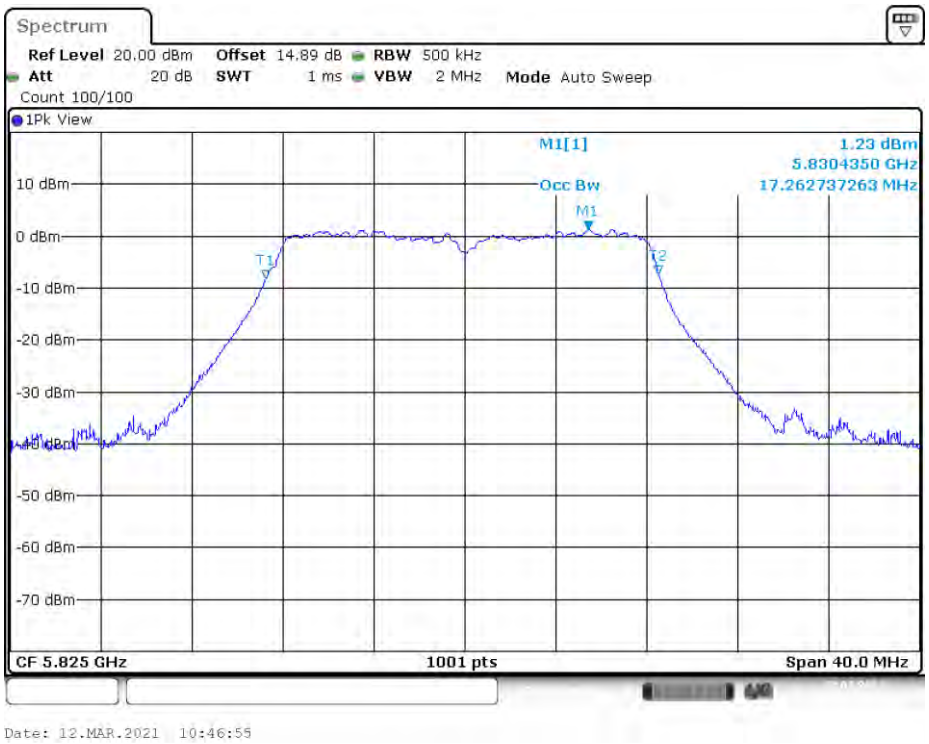
802.11a mode, 99% Occupied Bandwidth, 5745 MHz



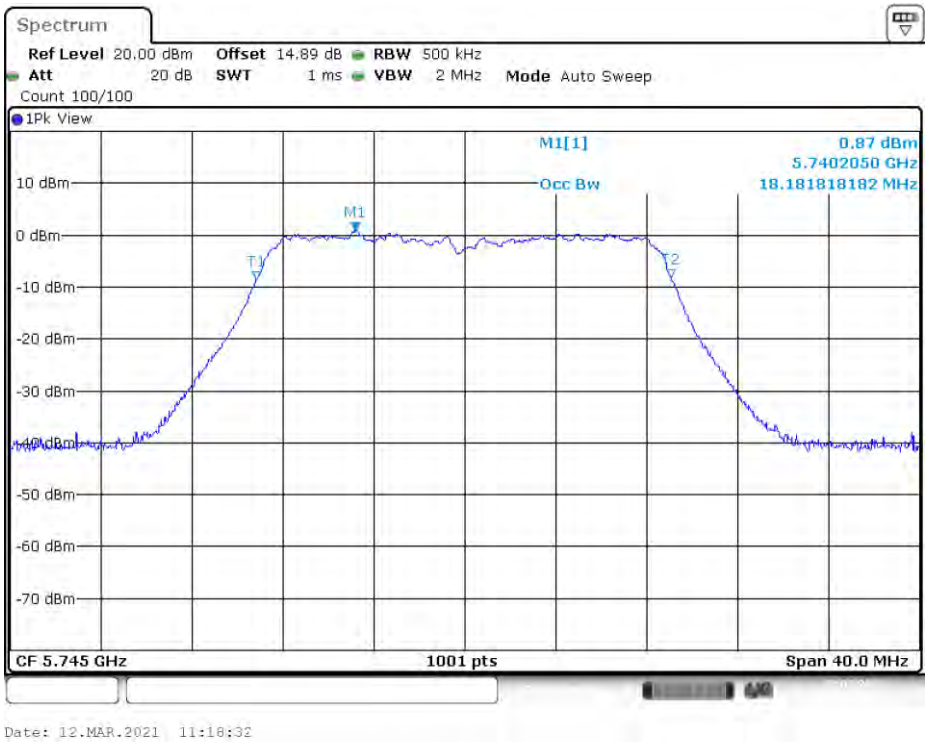
802.11a mode, 99% Occupied Bandwidth, 5785 MHz



802.11a mode, 99% Occupied Bandwidth, 5825 MHz



802.11n20 mode, 99% Occupied Bandwidth, 5745 MHz



802.11n20 mode, 99% Occupied Bandwidth, 5785 MHz

Date: 12.MAR.2021 15:00:09

802.11n20 mode, 99% Occupied Bandwidth, 5825 MHz

Date: 12.MAR.2021 15:03:36

802.11n40 mode, 99% Occupied Bandwidth, 5755 MHz

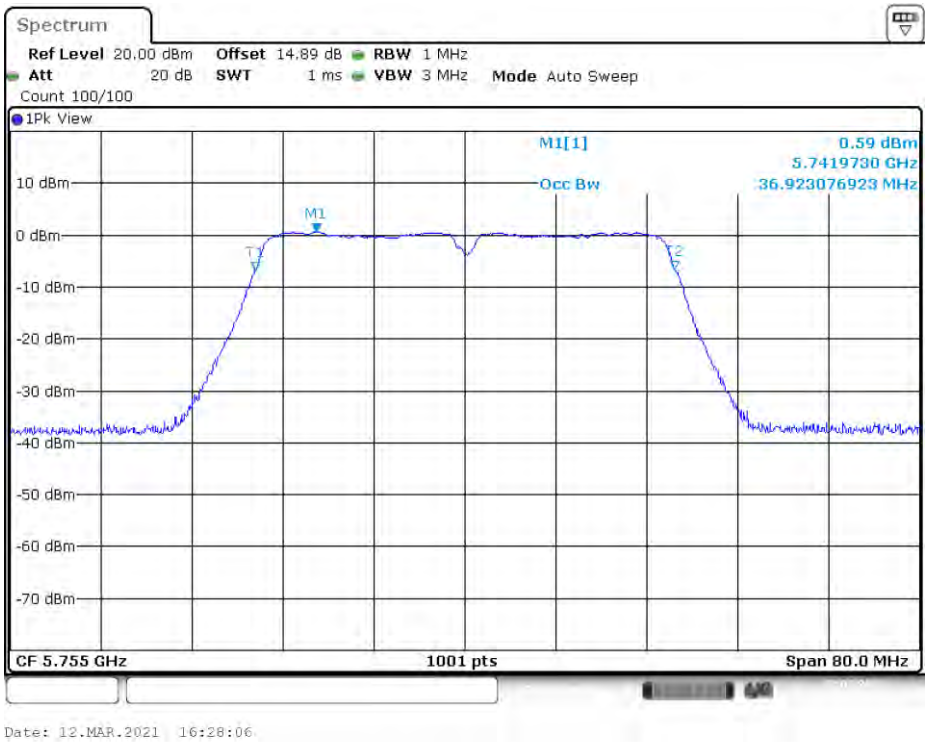
802.11n40 mode, 99% Occupied Bandwidth, 5795 MHz

802.11ac20 mode, 99% Occupied Bandwidth, 5745 MHz

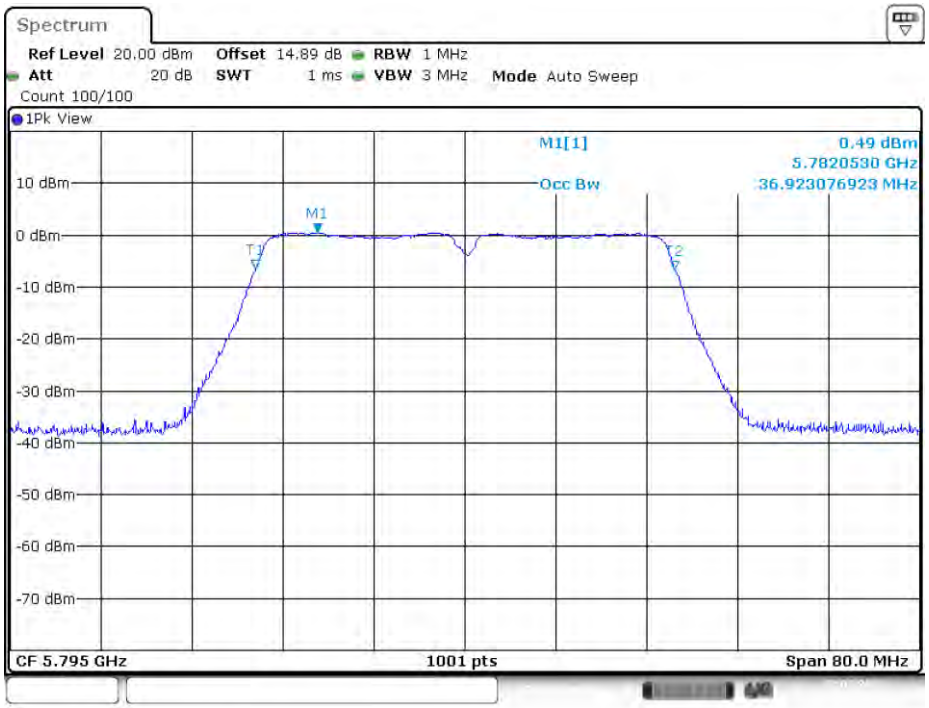
802.11ac20 mode, 99% Occupied Bandwidth, 5785 MHz

802.11ac20 mode, 99% Occupied Bandwidth, 5825 MHz

802.11ac40 mode, 99% Occupied Bandwidth, 5755 MHz

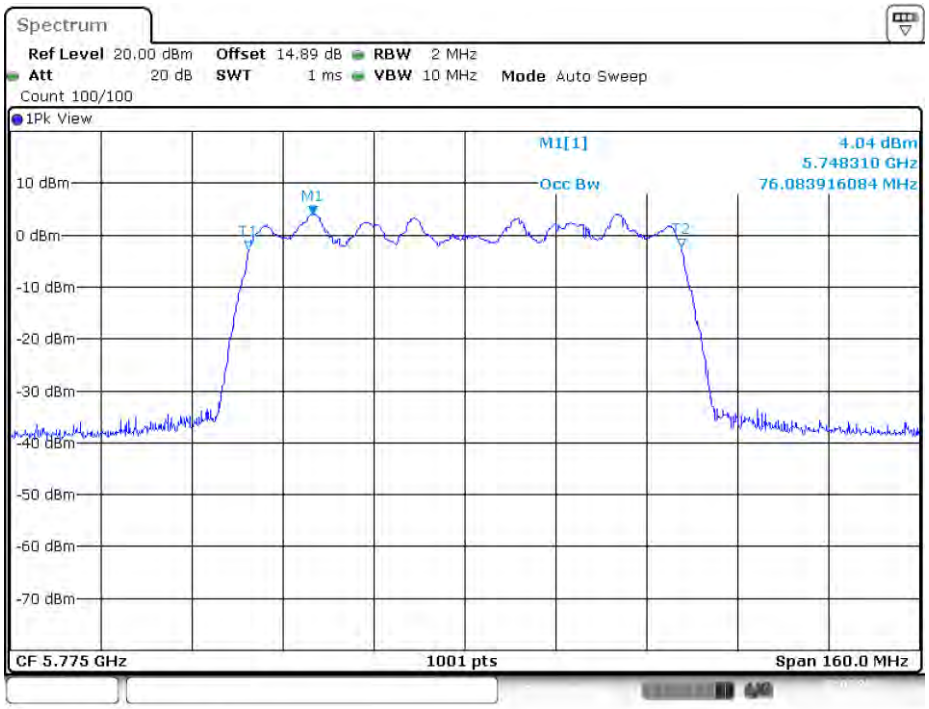


802.11ac40 mode, 99% Occupied Bandwidth, 5795 MHz



Date: 12.MAR.2021 16:32:07

802.11ac80 mode, 99% Occupied Bandwidth, 5775 MHz



Date: 12.MAR.2021 16:45:23

FCC §15.407(a) (1) (3) – CONDUCTED TRANSMITTER OUTPUT POWER

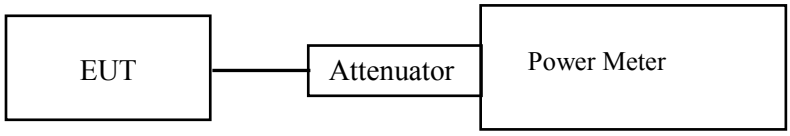
Applicable Standard

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 provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Test Procedure

1. Place the EUT on a bench and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
3. Add a correction factor to the display.



Test Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	52 %
ATM Pressure:	101.0 kPa

The testing was performed by Black Ding on 2021-03-12.

EUT operation mode: Transmitting

Test Result: Pass

Please refer to the following tables.

5150 MHz – 5250 MHz

Frequency (MHz)	Conducted Output Average Power (dBm)	Duty Cycle Factor (dB)	Corrected Conducted Output Average Power (dBm)	Limit (dBm)
802.11a				
5180	13.81	0	13.81	24
5200	13.95	0	13.95	
5240	14.25	0	14.25	
802.11n20				
5180	12.24	0	12.24	24
5200	12.52	0	12.52	
5240	13.05	0	13.05	
802.11n40				
5190	12.69	0	12.69	24
5230	12.99	0	12.99	
802.11ac20				
5180	12.17	0	12.17	24
5200	12.30	0	12.30	
5240	12.73	0	12.73	
802.11ac40				
5190	11.72	0	11.72	24
5230	12.11	0	12.11	
802.11ac80				
5210	11.87	0	11.87	24

5725 MHz – 5825 MHz:

Frequency (MHz)	Conducted Output Average Power (dBm)	Duty Cycle Factor (dB)	Correct Conducted Average Power (dBm)	Limit (dBm)
802.11a				
5745	13.54	0	13.54	30
5785	13.72	0	13.72	
5825	13.76	0	13.76	
802.11n20				
5745	12.77	0	12.77	30
5785	13.49	0	13.49	
5825	13.31	0	13.31	
802.11n40				
5755	13.58	0	13.58	30
5795	13.50	0	13.50	
802.11ac20				
5745	12.74	0	12.74	30
5785	12.63	0	12.63	
5825	12.58	0	12.58	
802.11ac40				
5755	11.96	0	11.96	30
5795	11.93	0	11.93	
802.11ac80				
5795	11.58	0	11.58	30

Note: This product is used for client device.

FCC §15.407(a) (1) (3) - POWER SPECTRAL DENSITY

Applicable Standard

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 provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Test Procedure

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). 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 ≥ 1/T, where T is defined in section II.B.l.a).
b) Set VBW ≥ 3 RBW.
c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500 kHz/RBW) to the measured result, whereas RBW (< 500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add 10 log (1MHz/RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Test Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	52 %
ATM Pressure:	101.0 kPa

The testing was performed by Black Ding on 2021-03-12.

EUT operation mode: Transmitting

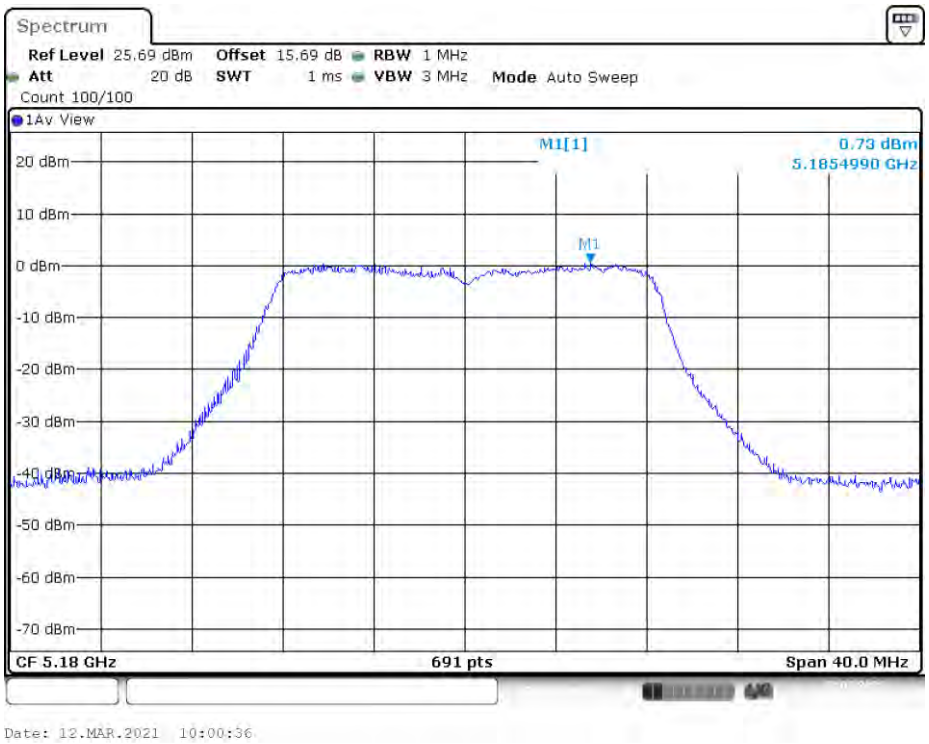
Test Result: Pass

Please refer to the following tables and plots.

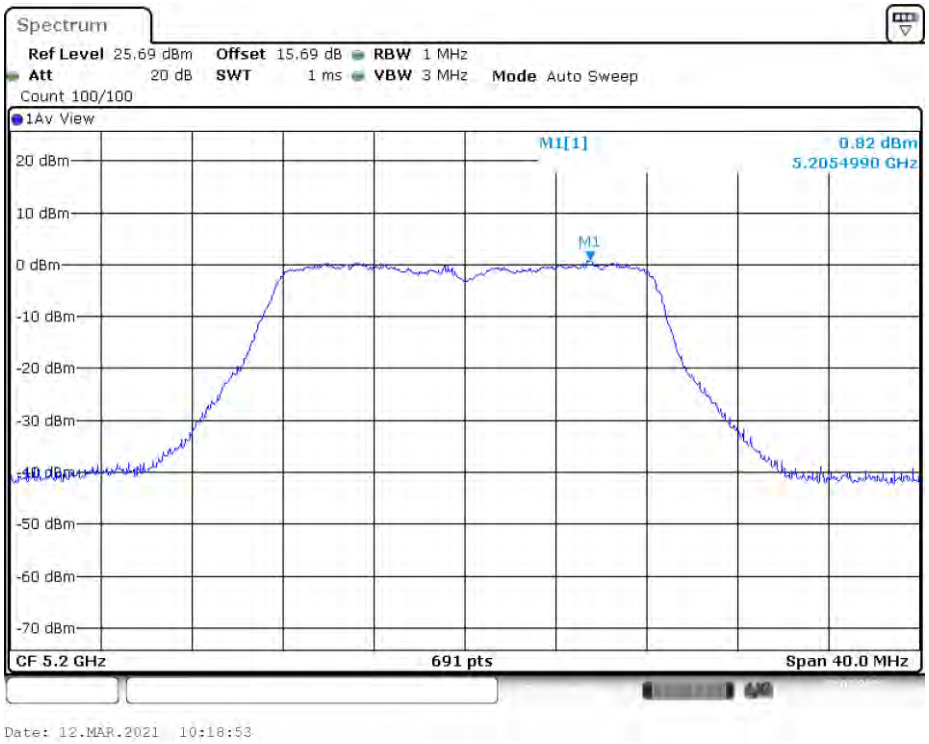
5150 – 5250 MHz

Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Cycle Factor (dB)	Corrected Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)
802.11a				
5180	0.73	0	0.73	11
5200	0.82	0	0.82	
5240	1.01	0	1.01	
802.11n20				
5180	-0.94	0	-0.94	11
5200	-0.76	0	-0.76	
5240	0	0	0	
802.11n40				
5190	-2.9	0	-2.9	11
5230	-2.73	0	-2.73	
802.11ac20				
5180	-0.86	0	-0.86	11
5200	-0.94	0	-0.94	
5240	-0.44	0	-0.44	
802.11ac40				
5190	-4.02	0	-4.02	11
5230	-3.6	0	-3.6	
802.11ac80				
5210	-5.78	0	-5.78	11

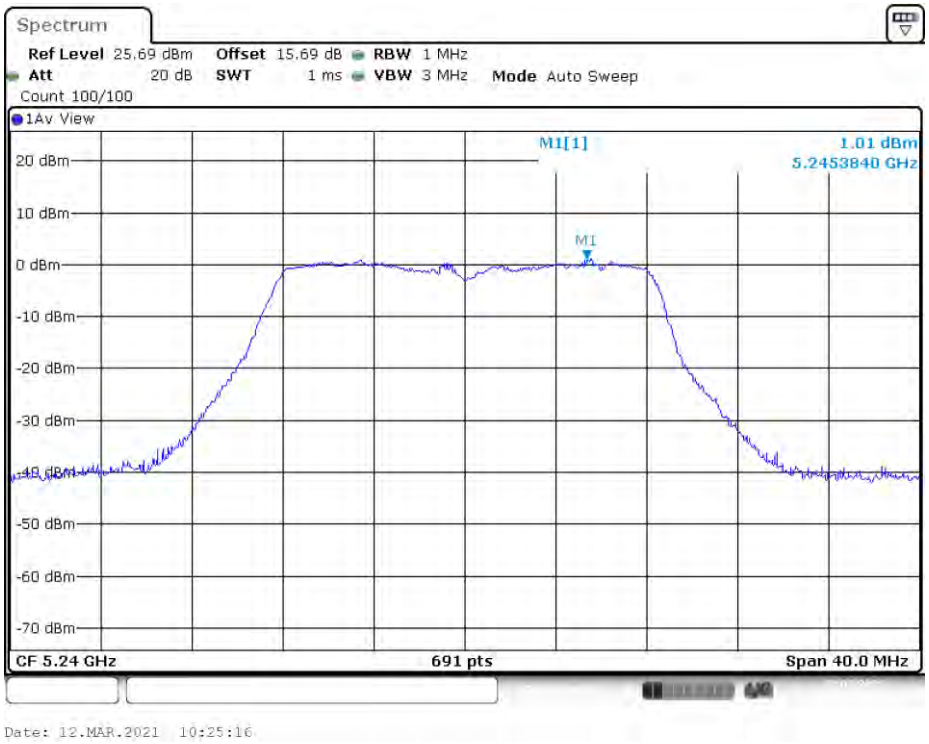
802.11a mode, Power Spectral Density, 5180 MHz



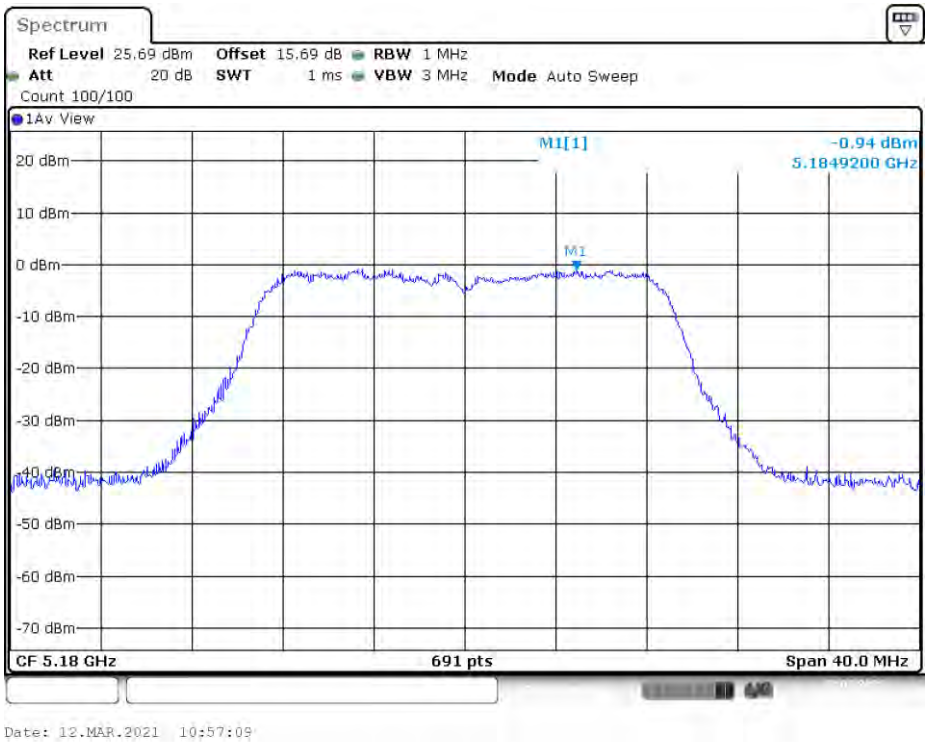
802.11a mode, Power Spectral Density, 5200 MHz



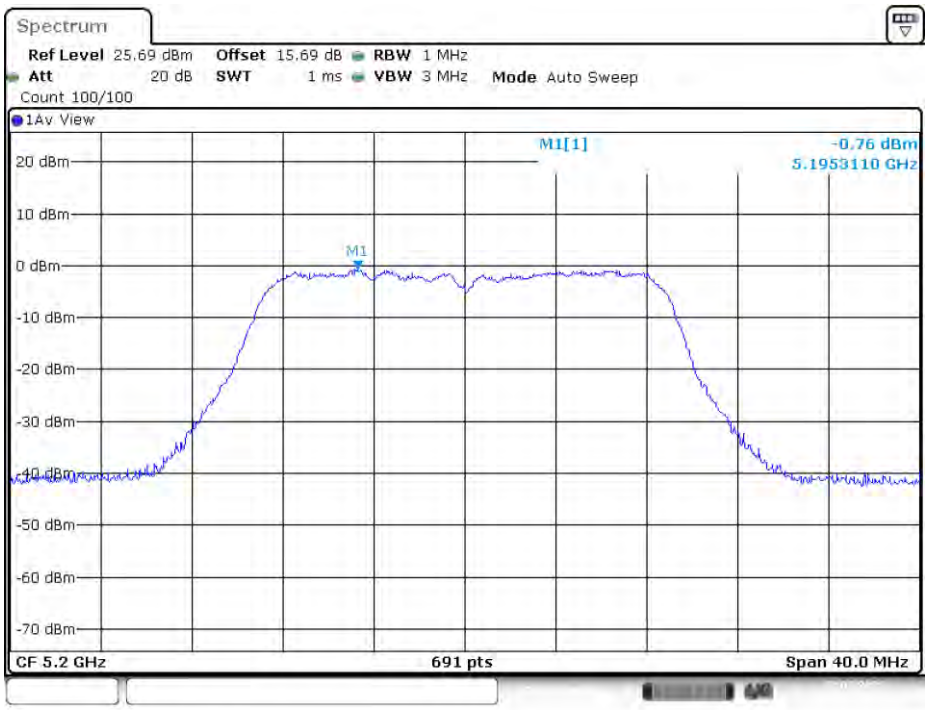
802.11a mode, Power Spectral Density, 5240 MHz



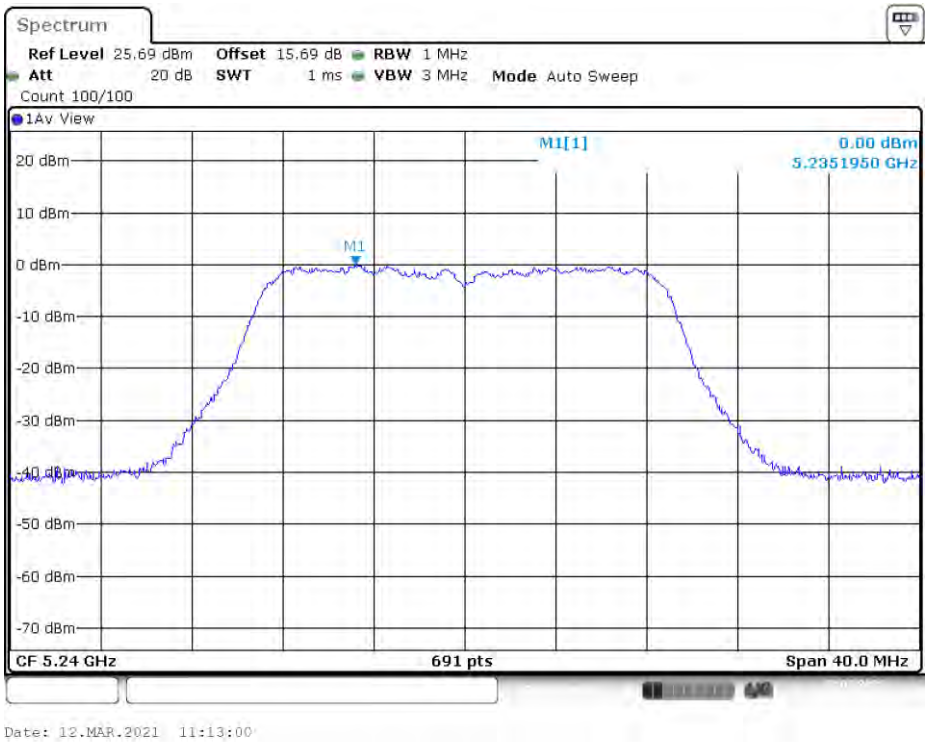
802.11n20 mode, Power Spectral Density, 5180 MHz



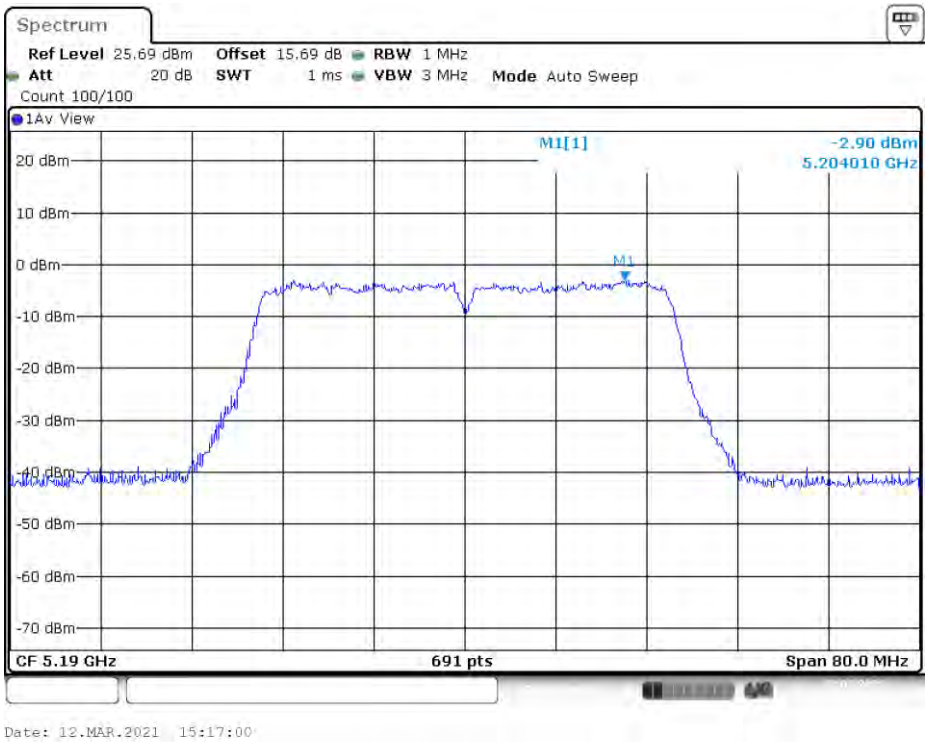
802.11n20 mode, Power Spectral Density, 5200 MHz



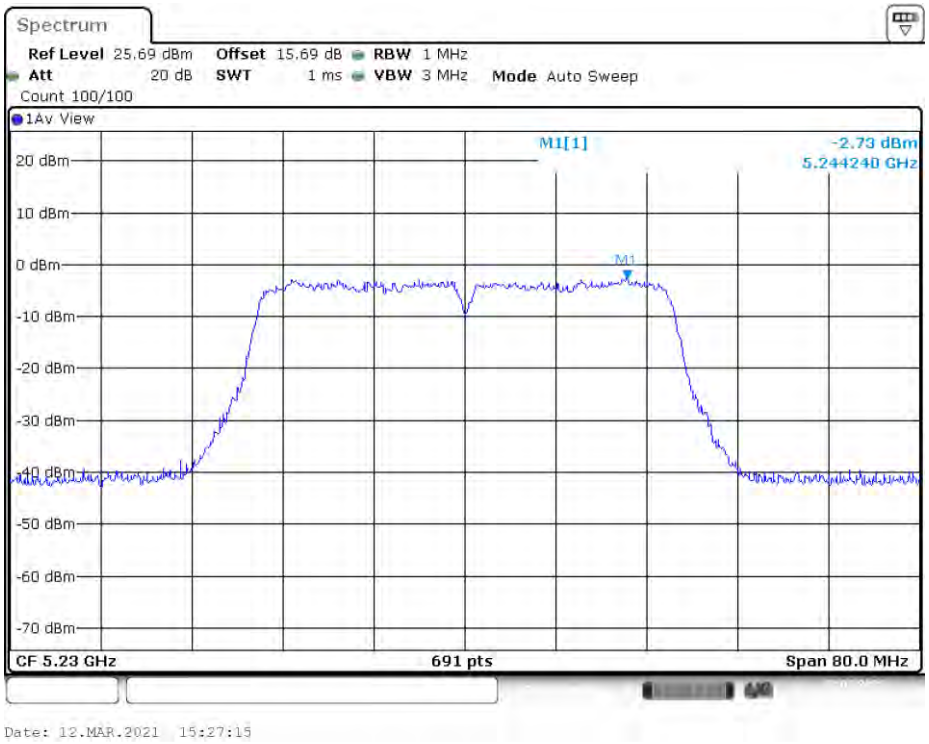
802.11n20 mode, Power Spectral Density, 5240 MHz



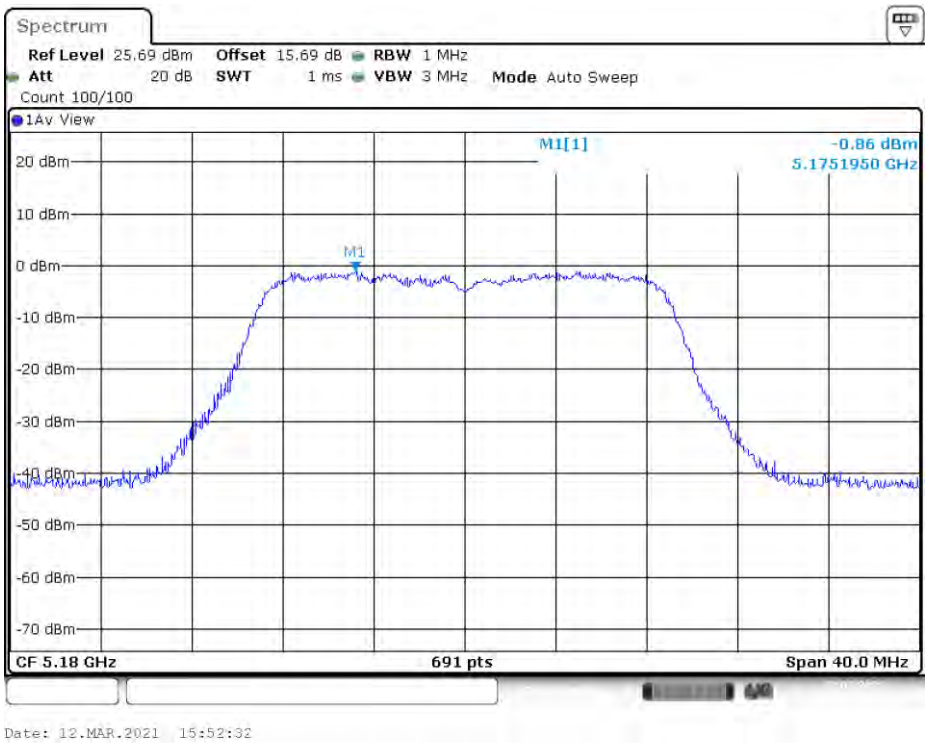
802.11n40 mode, Power Spectral Density, 5190 MHz



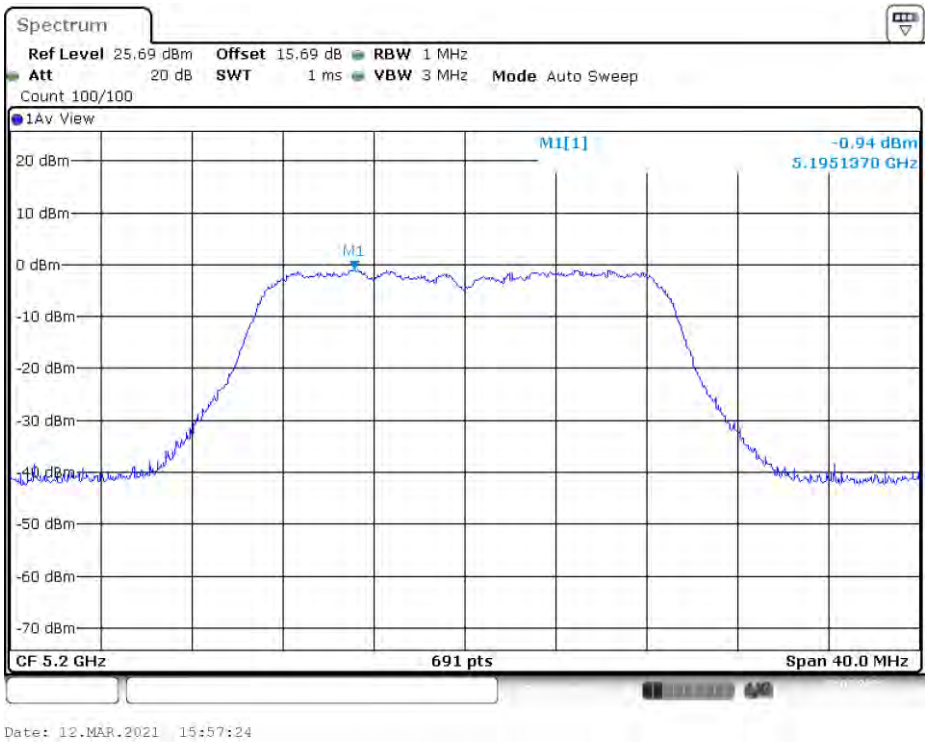
802.11n40 mode, Power Spectral Density, 5230 MHz



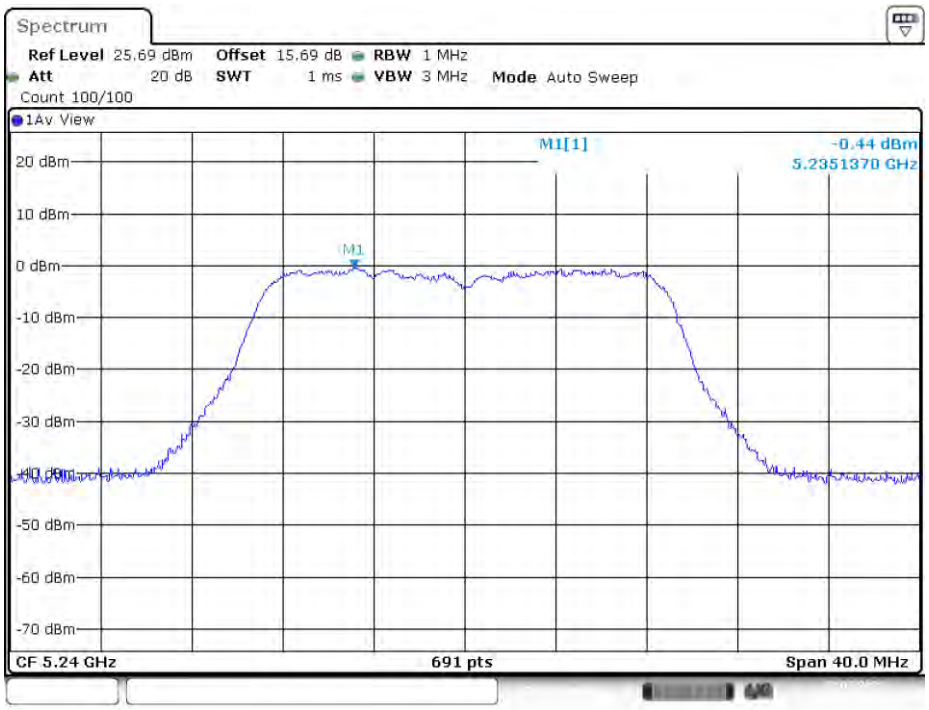
802.11ac20 mode, Power Spectral Density, 5180 MHz



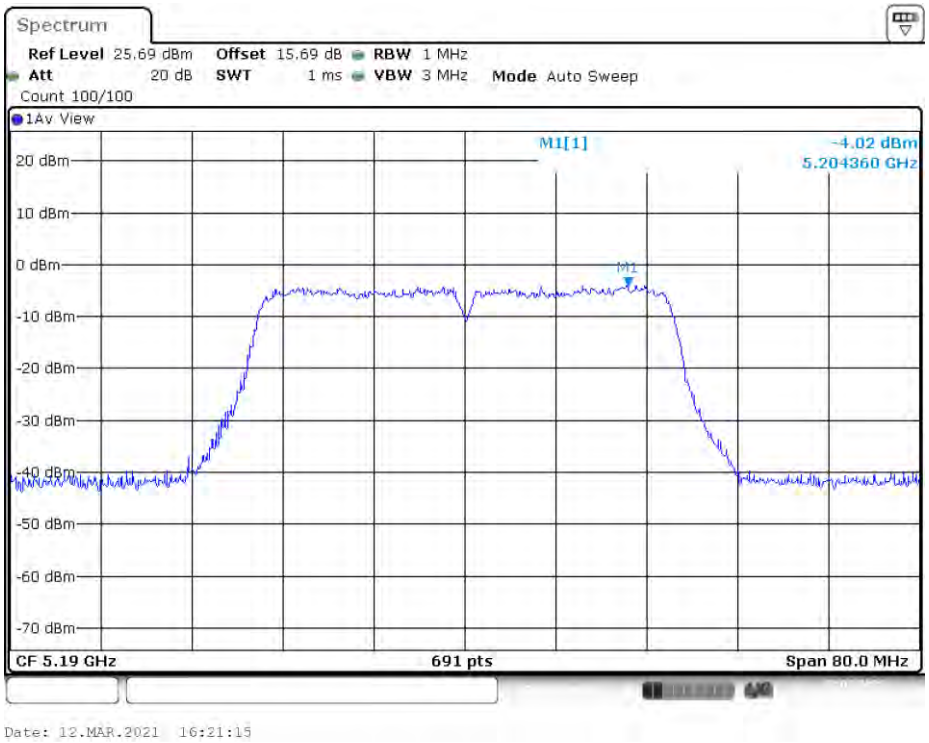
802. 11ac20 mode, Power Spectral Density, 5200 MHz



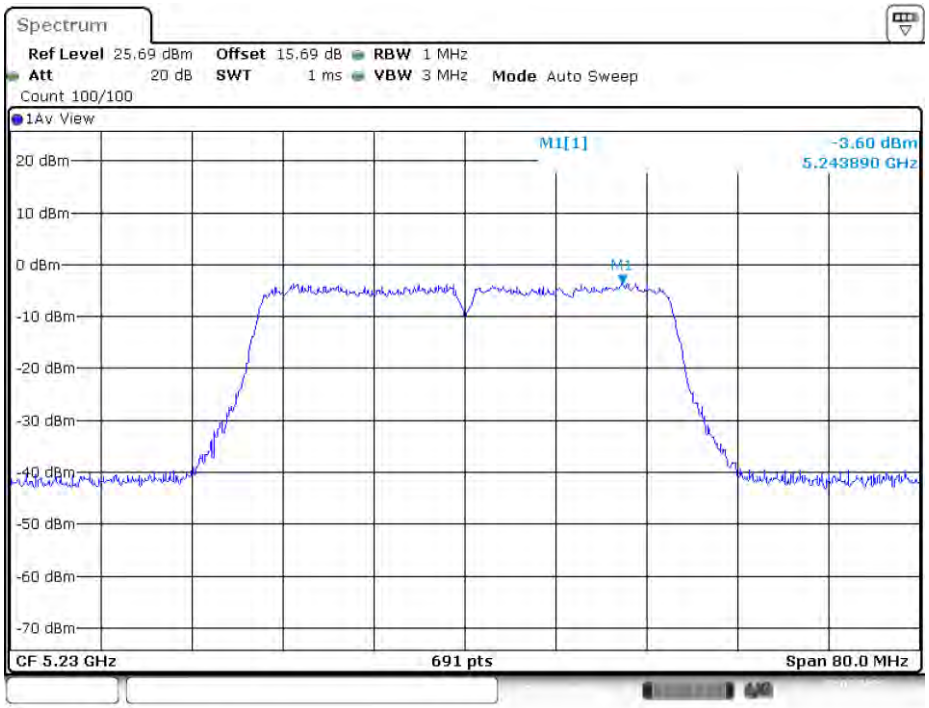
802. 11ac20 mode, Power Spectral Density, 5240 MHz



802.11ac40 mode, Power Spectral Density, 5190 MHz



802.11ac40 mode, Power Spectral Density, 5230 MHz



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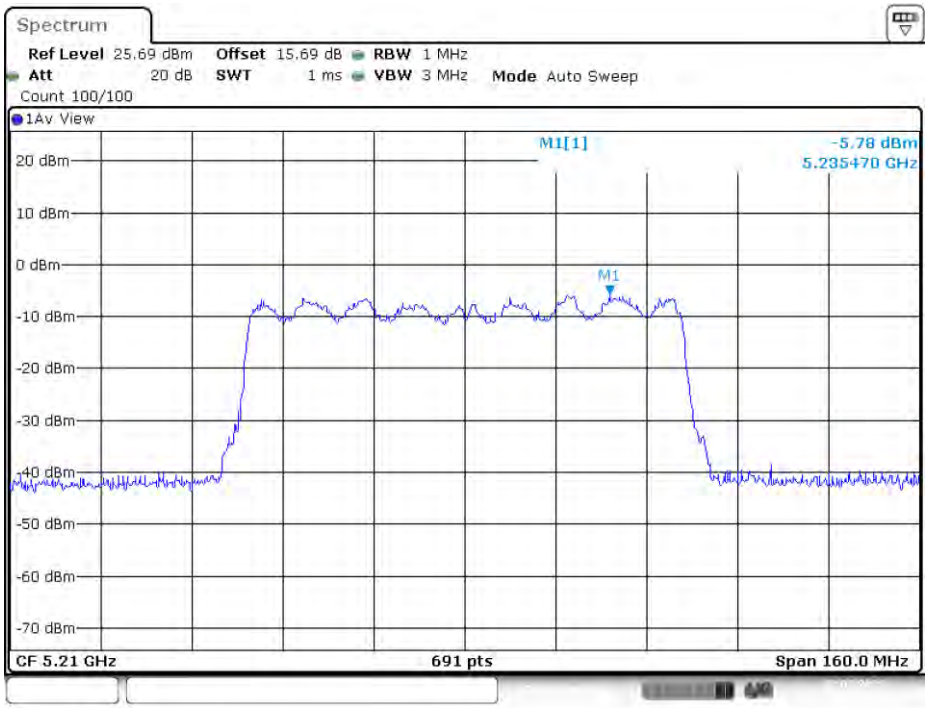
802.11ac80 mode, Power Spectral Density, 5210 MHz



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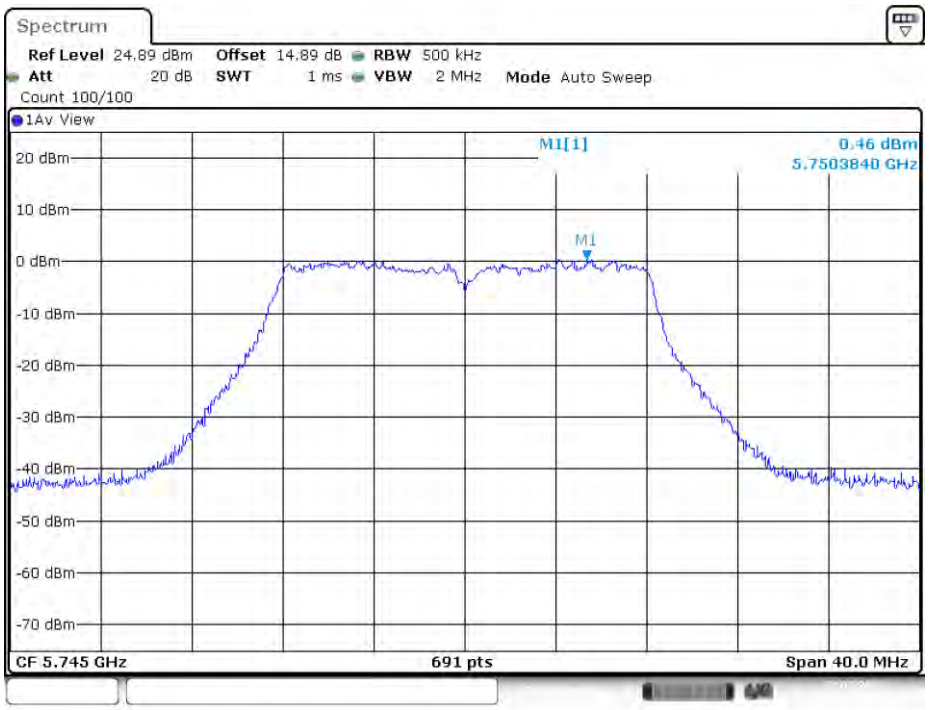
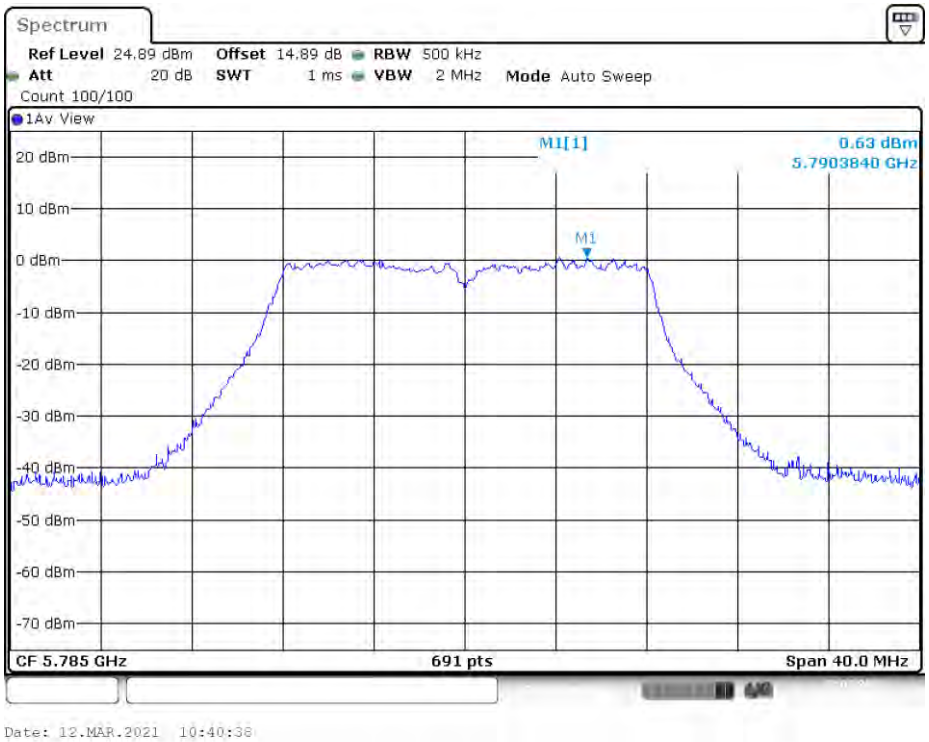
5745– 5825 MHz:

Frequency (MHz)	Power Spectral Density (dBm/500kHz)	Duty Cycle Factor (dB)	Corrected Power Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)
802.11a				
5745	0.46	0	0.46	30
5785	0.63	0	0.63	
5825	0.62	0	0.62	
802.11n20				
5745	-0.37	0	-0.37	30
5785	0.45	0	0.45	
5825	0.23	0	0.23	
802.11n40				
5755	-3.08	0	-3.08	30
5795	-2.81	0	-2.81	
802.11ac20				
5745	-0.4	0	-0.4	30
5785	-0.58	0	-0.58	
5825	-0.51	0	-0.51	
802.11ac40				
5755	-3.79	0	-3.79	30
5795	-3.81	0	-3.81	
802.11ac80				
5775	-6.47	0	-6.47	30

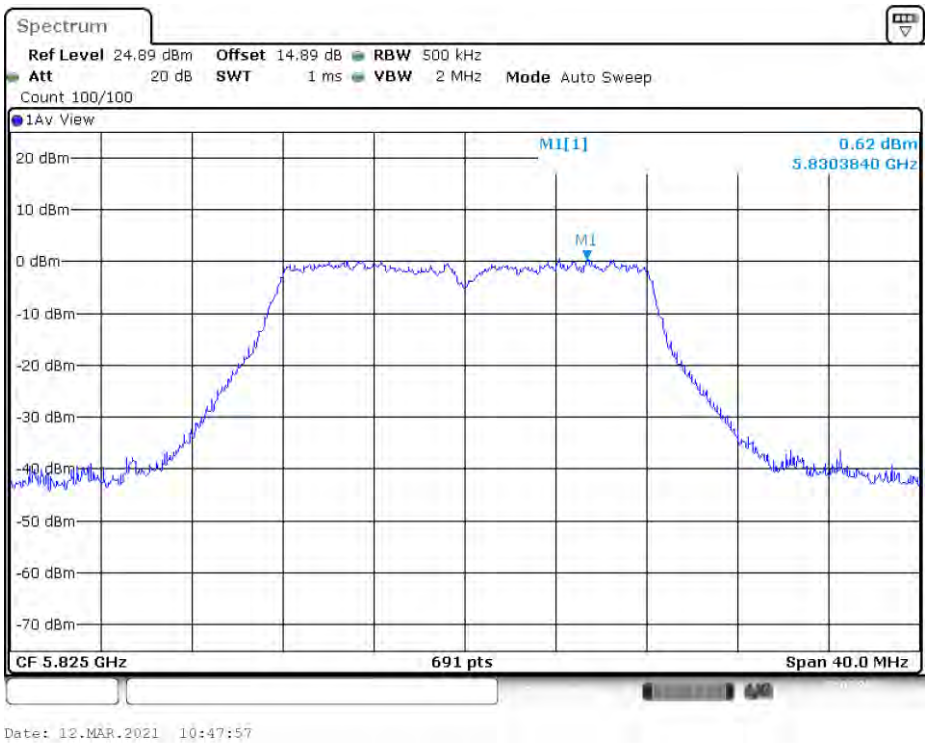
802.11a mode, Power Spectral Density, 5745 MHz



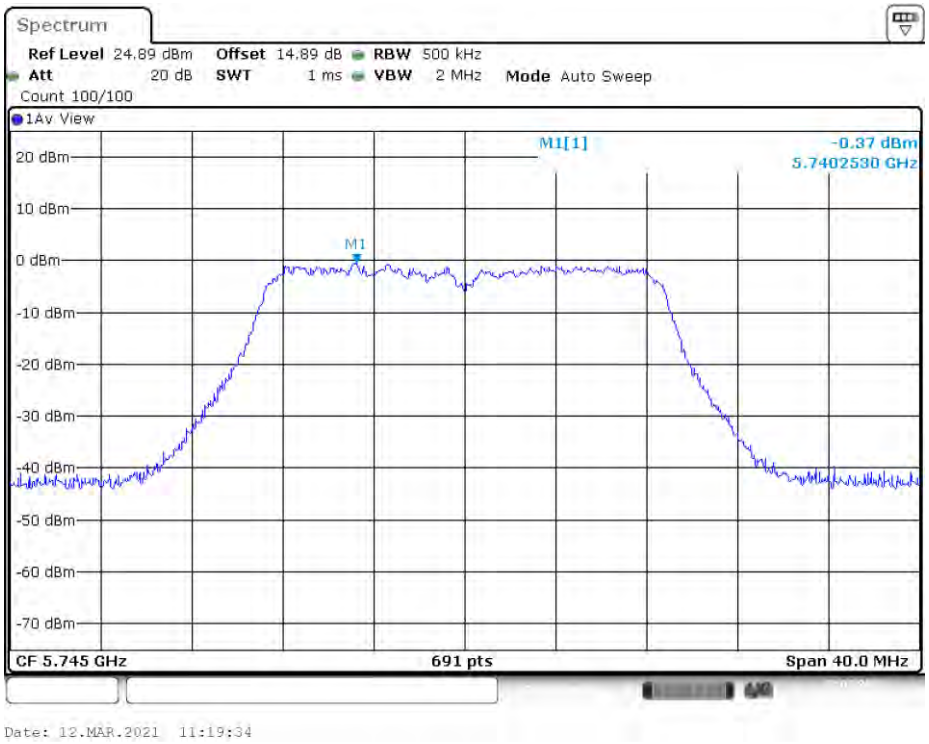
802.11a mode, Power Spectral Density, 5785 MHz



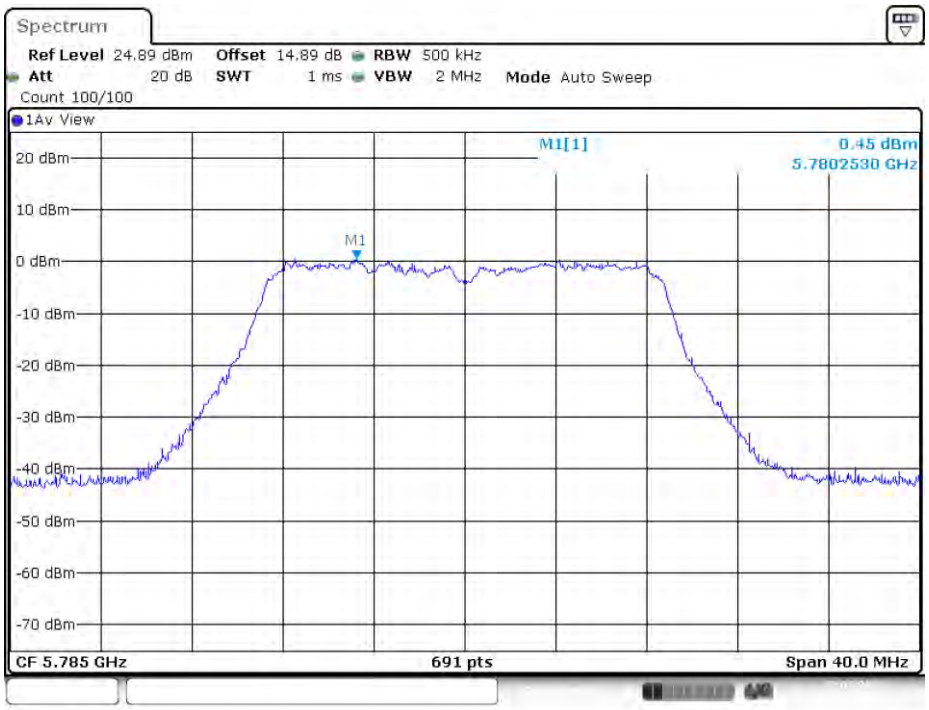
802.11a mode, Power Spectral Density, 5825 MHz



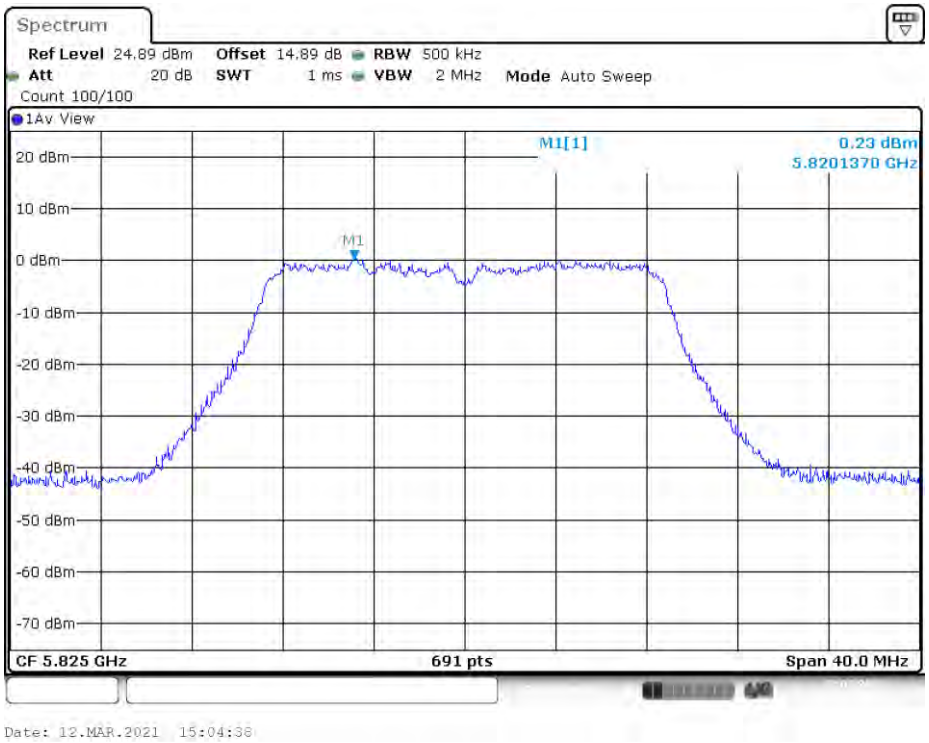
802.11n20 mode, Power Spectral Density, 5745 MHz



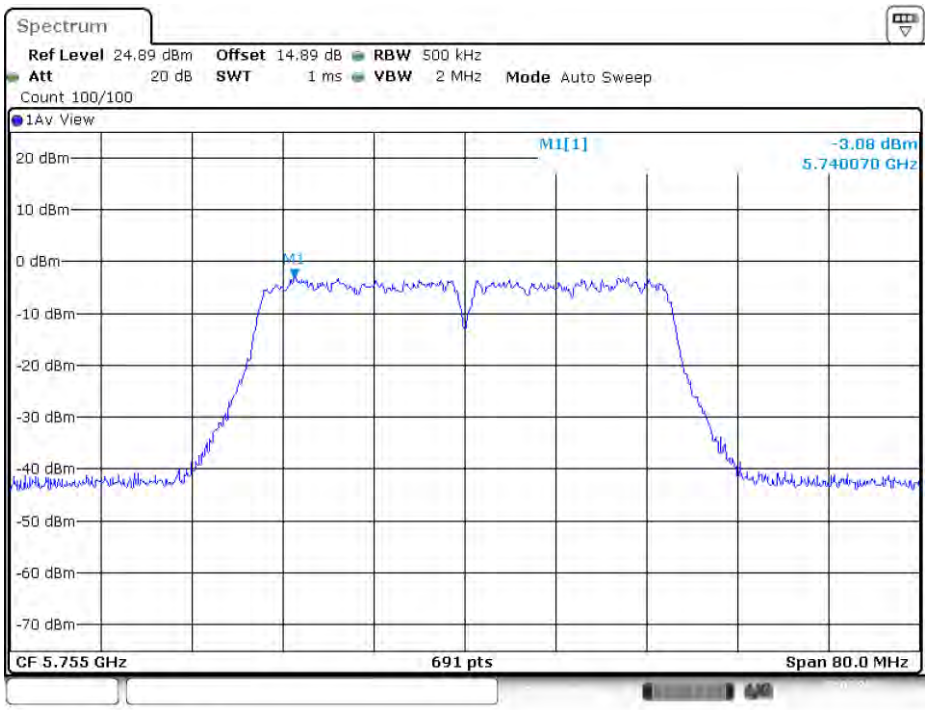
802.11n20 mode, Power Spectral Density, 5785 MHz



802.11n20 mode, Power Spectral Density, 5825 MHz



802.11n40 mode, Power Spectral Density, 5755 MHz



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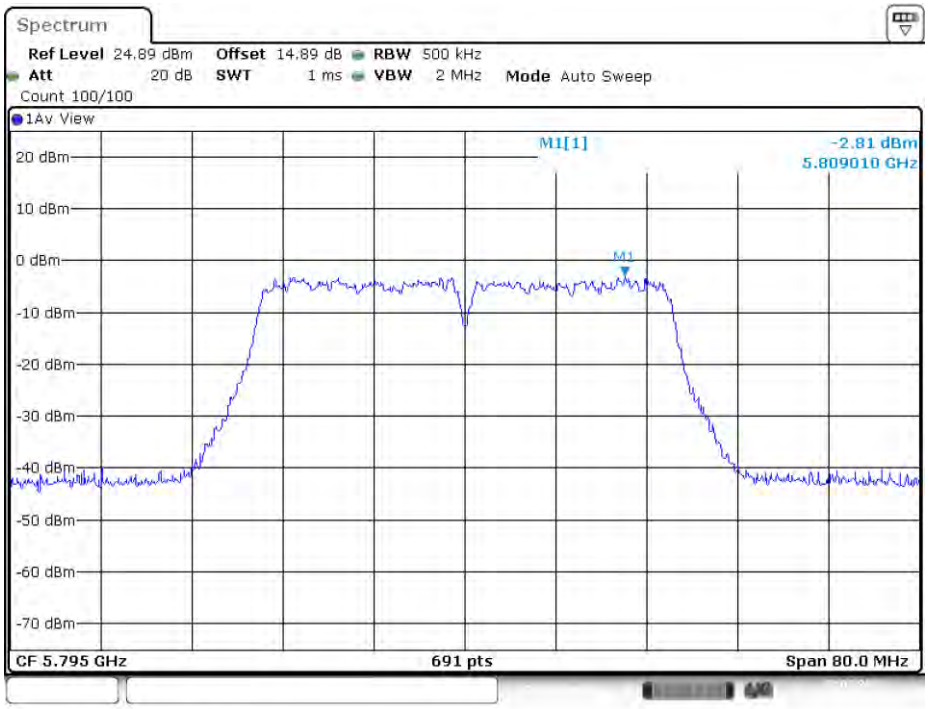
802.11n40 mode, Power Spectral Density, 5795 MHz



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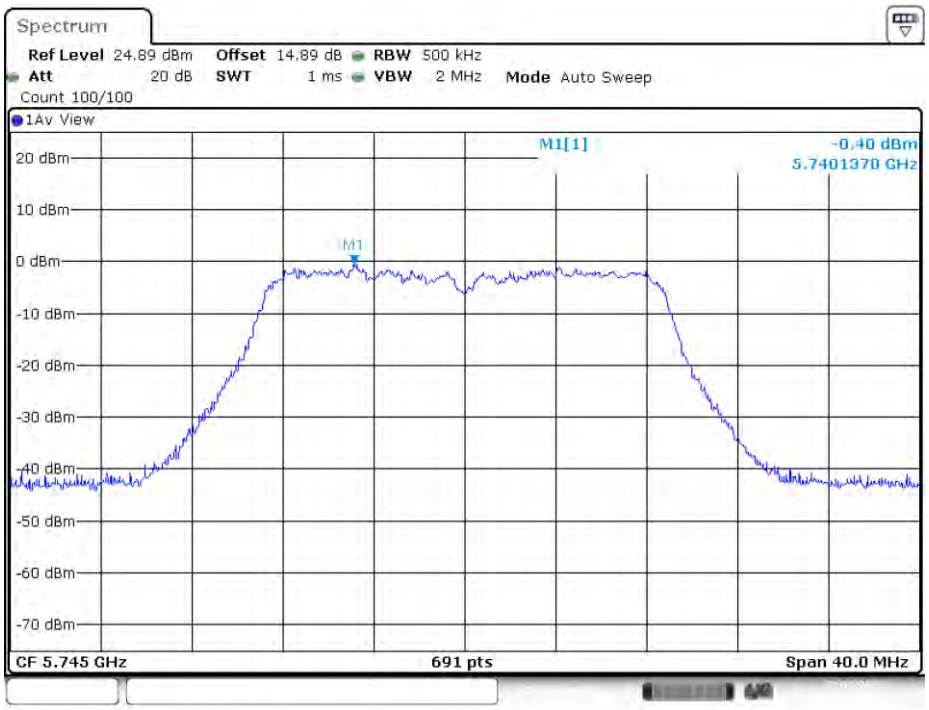
802.11ac20 mode, Power Spectral Density, 5745 MHz



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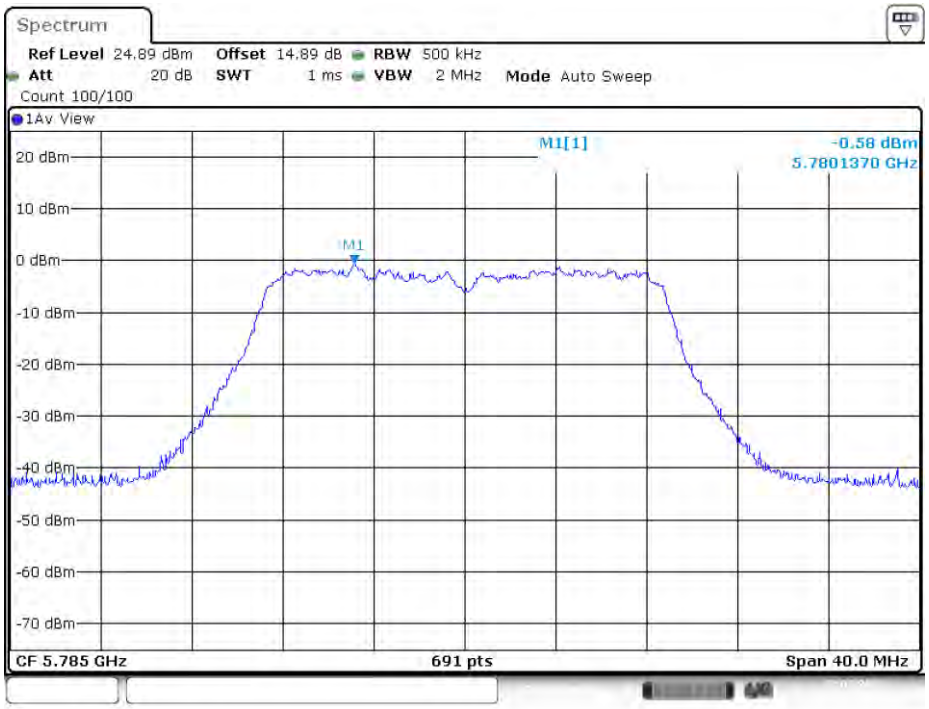
802. 11ac20 mode, Power Spectral Density, 5785 MHz



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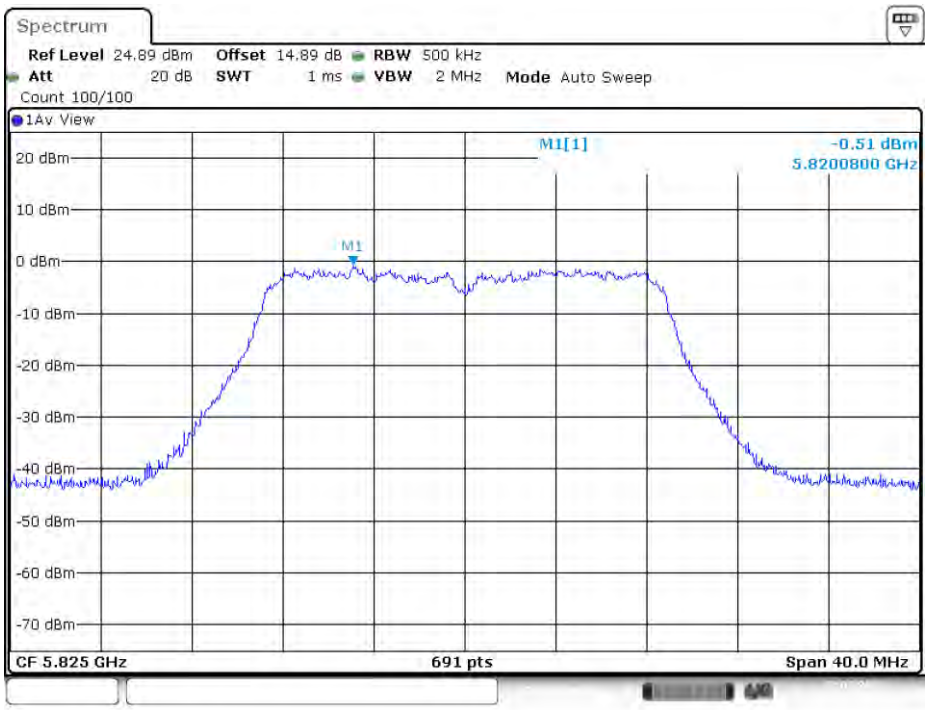
802. 11ac20 mode, Power Spectral Density, 5825 MHz



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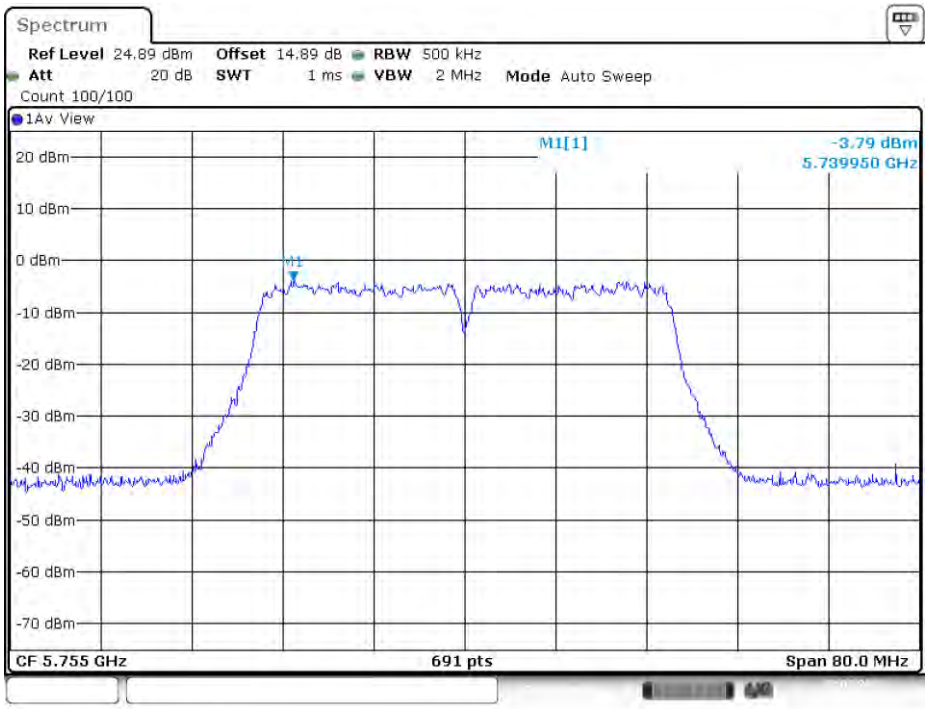
802.11ac40 mode, Power Spectral Density, 5755 MHz



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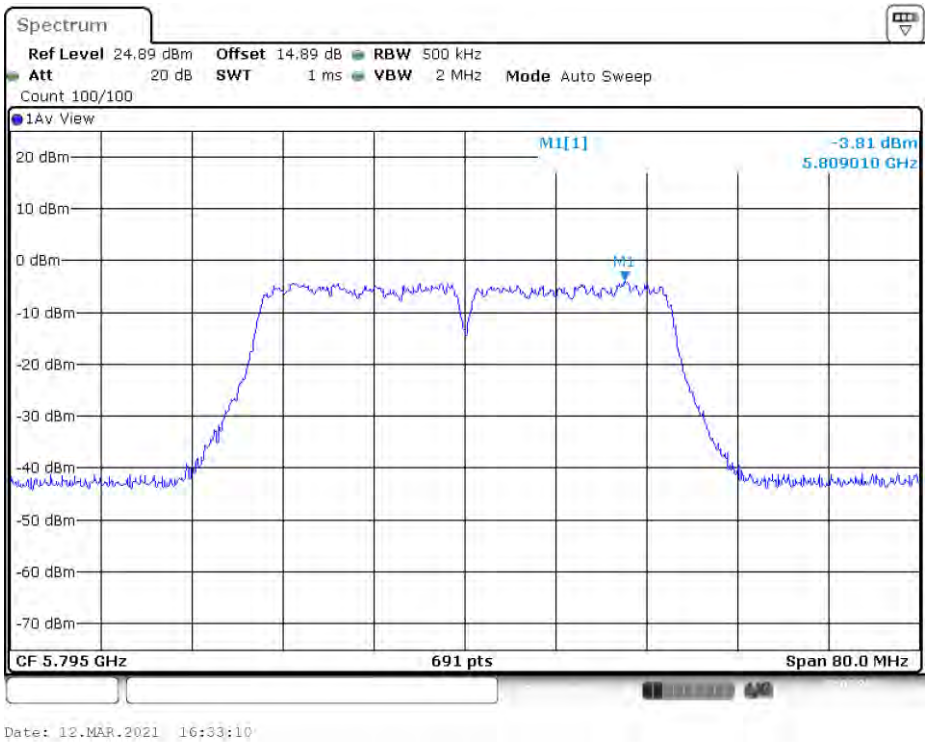
802.11ac40 mode, Power Spectral Density, 5795 MHz



******* END OF REPORT *******