



TESTING LABORATORY
CERTIFICATE#4323.01



FCC PART 15.407

TEST REPORT

For

Shanghai Sunmi Technology Co.,Ltd.

Room 605, Block 7, KIC Plaza, No.388 Song Hu Road, Yang Pu District, Shanghai 200433 China

FCC ID: 2AH25TF700

Report Type: Original Report	Product Type: WIRELESS DATA TERMINAL
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Report Number: RKSA200706002-00D	
Report Date: 2020-11-06	
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	Shanghai Sunmi Technology Co.,Ltd.
Product Type:	WIRELESS DATA TERMINAL
Test Model	TF700
Power Supply:	DC 5.0/9.0/12.0/3.6~6.0/6.0~9.0/9.0~12.0V from adapter
RF Function:	5G Wi-Fi
Operating Band/Frequency:	5G Wi-Fi B1: 5150-5250 MHz, B4: 5725-5850 MHz
Channel Number:	5G Wi-Fi B1: 7, B4: 8
Channel Separation:	802.11a/802.11ac20/n20: 20MHz; 802.11n40/802.11ac40:40 MHz, 802.11ac80: 80 MHz
Modulation Type:	OFDM
Antenna Type:	FPC Antenna
*Maximum Antenna Gain:	-2.2 dBi

Note: The antenna gain was provided by the applicant.

Adapter-1 Information:

Model: CK18W02U

Input: AC 100-240V 50/60Hz 0.5A

Output: 5.0V, 3.0A/9.0V, 2.0A/12.0V, 1.5A

Adapter-2 Information:

Model: TPA-10120150UU

Input: AC 100-240V 50/60Hz 0.6A

Output: 3.6~6.0V, 3.0A, /6.0~9.0V, 2.0A/9.0~12.0V, 1.5A

Adapter-3 Information:

Model: TPA-23A050200UU01

Input: AC100-240V 50/60Hz 0.3A

Output: 5.0V, 2000mA

Adapter-4 Information:

Model: UC13US

Input: AC100-240V 50/60Hz 0.35A

Output: 5.0V, 2000mA

**All measurement and test data in this report was gathered from production sample serial number: 20200706002.
(Assigned by the BACL. The EUT supplied by the applicant was received on 2020-07-06)*

Objective

This type approval report is prepared on behalf of *Shanghai Sunmi Technology Co.,Ltd.* 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.

Related Submittal(s)/Grant(s)

FCC Part 15.247 DTS submissions with FCC ID: 2AH25TF700

FCC Part 15.247 DSS submissions with FCC ID: 2AH25TF700

FCC Part 15B JBP submissions with FCC ID: 2AH25TF700

FCC Part 15.225 DXX submissions with FCC ID: 2AH25TF700

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.

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

Measurement Uncertainty

Item	Uncertainty	
AC Power Lines Conducted Emissions	3.19 dB	
RF conducted test with spectrum	0.9dB	
RF Output Power with Power meter	0.5dB	
Radiated emission	30MHz~1GHz	6.11dB
	1GHz~6GHz	4.45dB
	6GHz~18GHz	5.23dB
	18GHz~40GHz	5.65dB
Occupied Bandwidth	0.5kHz	
Temperature	1.0°C	
Humidity	6%	

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) Lab is accredited to ISO/IEC 17025 by A2LA (Lab code: 4323.01), the FCC designation No. CN1185 under the FCC KDB 974614 D01 and CAB identifier CN0004 under the ISED requirement. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The EUT was configured for testing in an engineering mode which was provided by the manufacturer.

Note: Pre-scanned the four adapters are for Conducted Emissions and Radiated Emissions items in the report No. RKSA200706002-00A, We chose the adapter 4 with the worst results for Conducted Emissions and Radiated Emissions items for testing in the RF report.

In **5150~5250 MHz** band, test channel list is as below,

802.11a/802.11ac20/n20 mode Channel 36, 40, 48 were tested.

802.11n40/802.11ac40 mode Channel 38, 46 were tested.

802.11ac80 mode Channel 42 was tested

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

For **5725~5850 MHz** band,

802.11a/802.11ac20/n20 mode Channel 149, 157, 165 were tested.

802.11n40/802.11ac40 mode Channel 151, 159 were tested.

802.11ac80 mode Channel 155 was tested.

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

EUT Exercise Software

RF test tool: QRCT

The worst case was performed under:

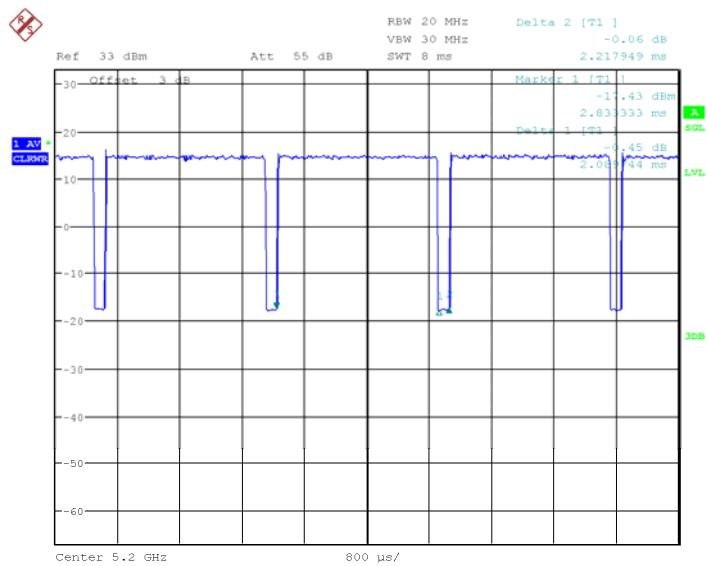
5150MHz-5250MHz Band:

Mode	Data rate	Channel	*Power Setting
802.11a	6 Mbps	5180	18.5
		5200	
		5240	
802.11ac20	MCS0	5180	18.5
		5200	
		5240	
802.11n-HT20	MCS0	5180	18.5
		5200	
		5240	
802.11ac40	MCS0	5190	18.5
		5230	
802.11n-HT40	MCS0	5190	18.5
		5230	
802.11ac80	MCS0	5210	18.5

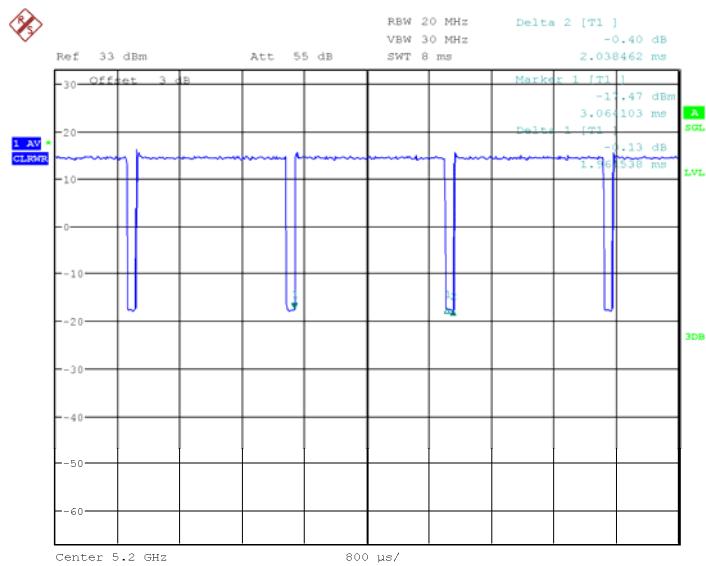
5725MHz-5850MHz Band:

Mode	Data rate	Channel	*Power Setting
802.11a	6 Mbps	5745	18.5
		5785	
		5825	
802.11ac20	MCS0	5745	18.5
		5785	
		5825	
802.11n-HT20	MCS0	5745	18.5
		5785	
		5825	
802.11ac40	MCS0	5755	18.5
		5795	
802.11n-HT40	MCS0	5755	18.5
		5795	
802.11ac80	MCS0	5775	18.5

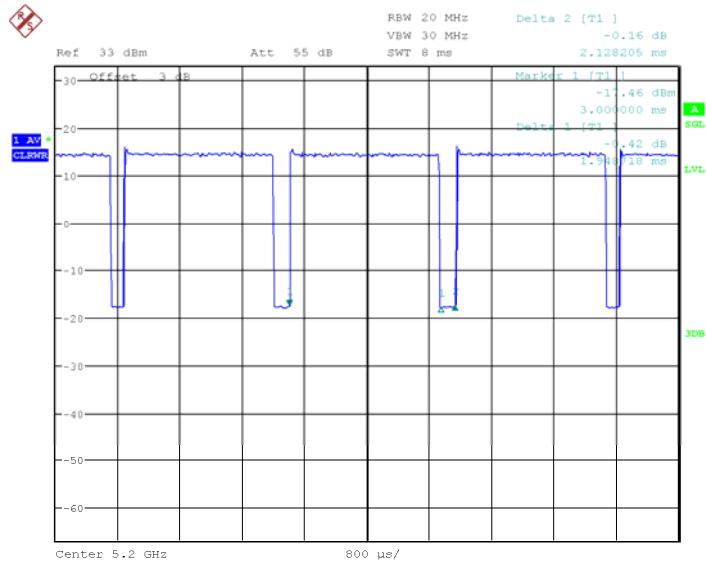
Note: The power level setting was declared by the applicant.

Duty Cycle**5150MHz-5250MHz Band:****802.11a mode**

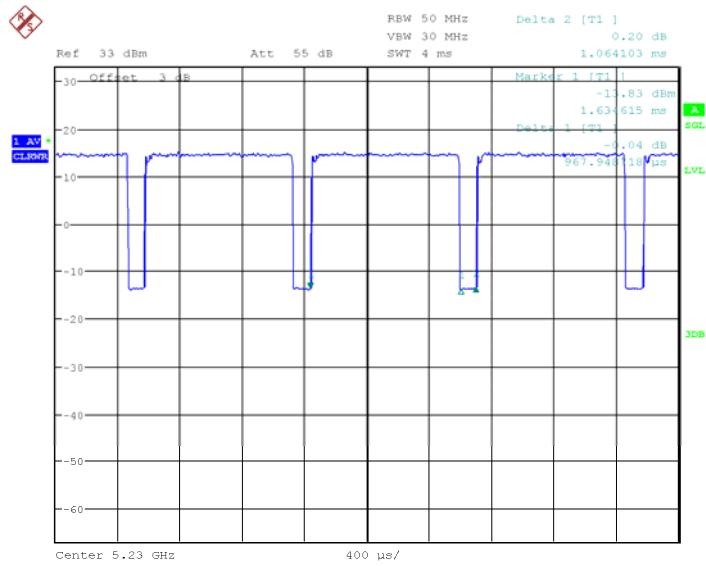
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802.11ac20 mode

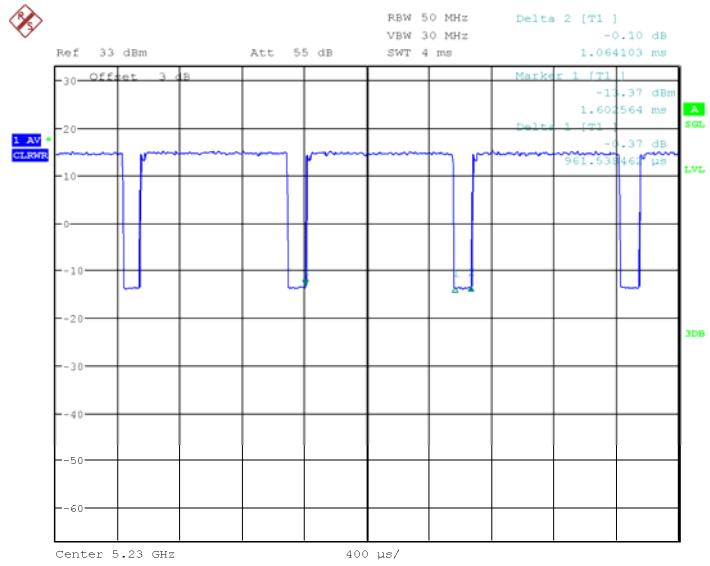
Date: 27.JUL.2020 14:42:54

802.11n-HT20 mode

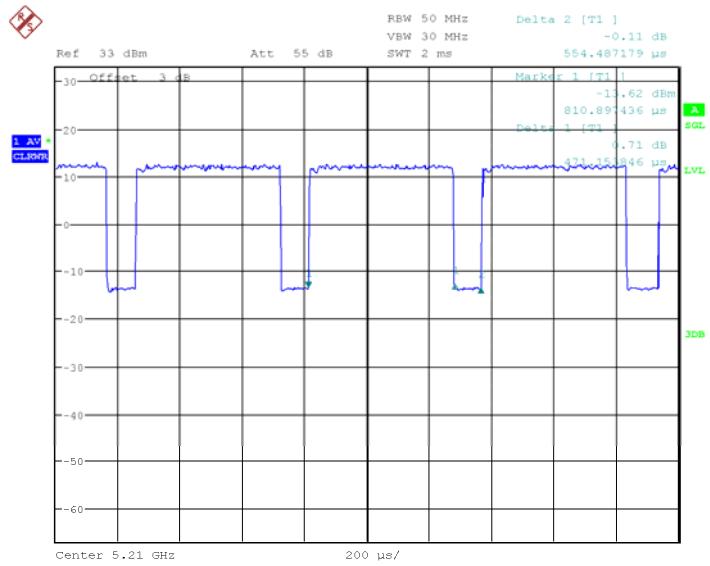
Date: 27.JUL.2020 14:40:03

802.11 ac40 mode

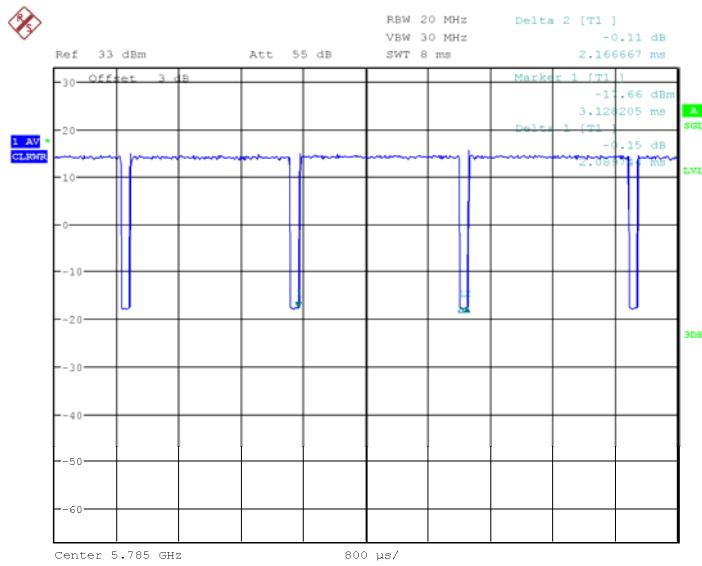
Date: 27.JUL.2020 16:13:17

802.11n-HT40 mode

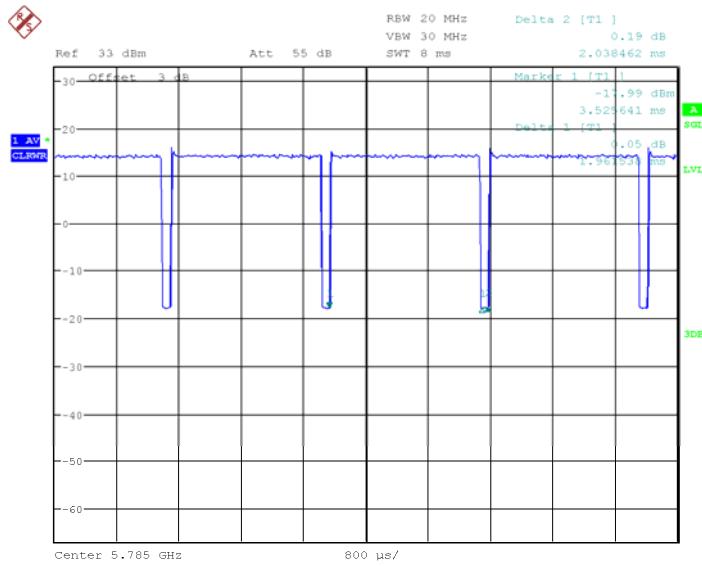
Date: 27.JUL.2020 16:11:51

802.11 ac80 mode

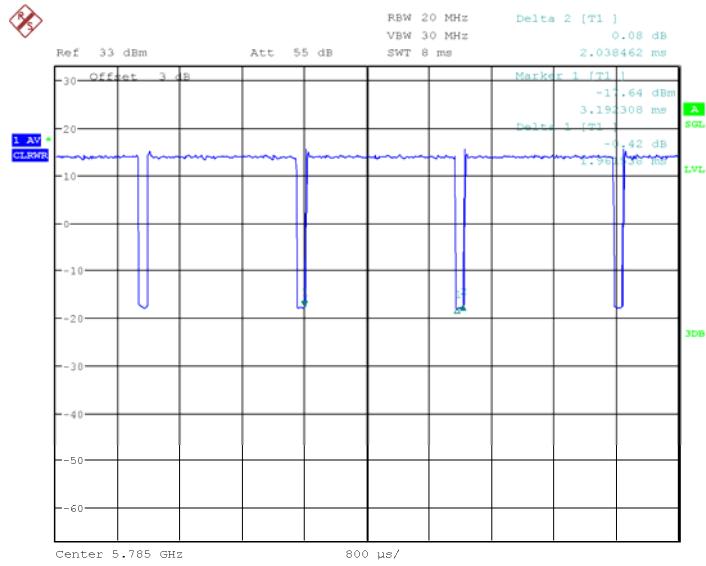
Date: 27.JUL.2020 15:20:02

5725MHz-5850MHz Band:**802.11a mode**

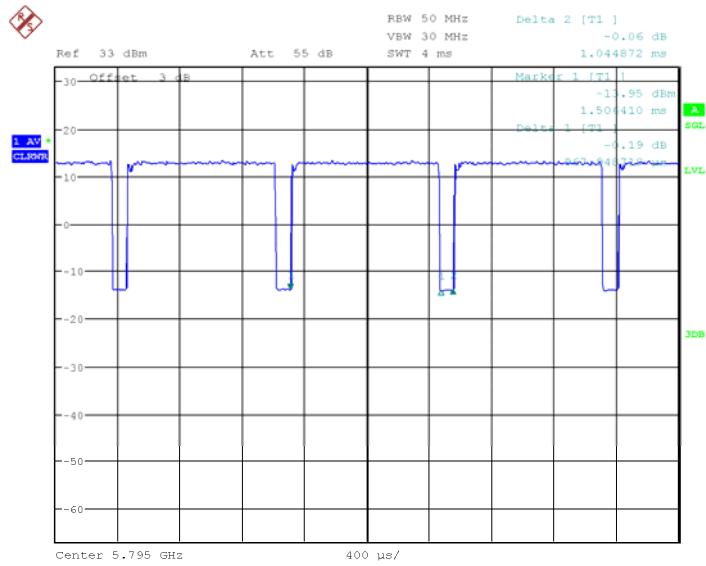
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802.11ac20 mode

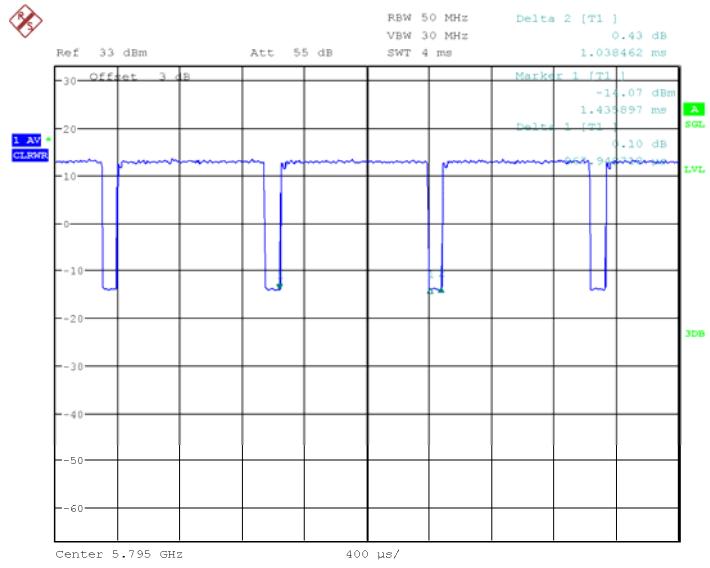
Date: 27.JUL.2020 16:08:24

802.11n-HT20 mode

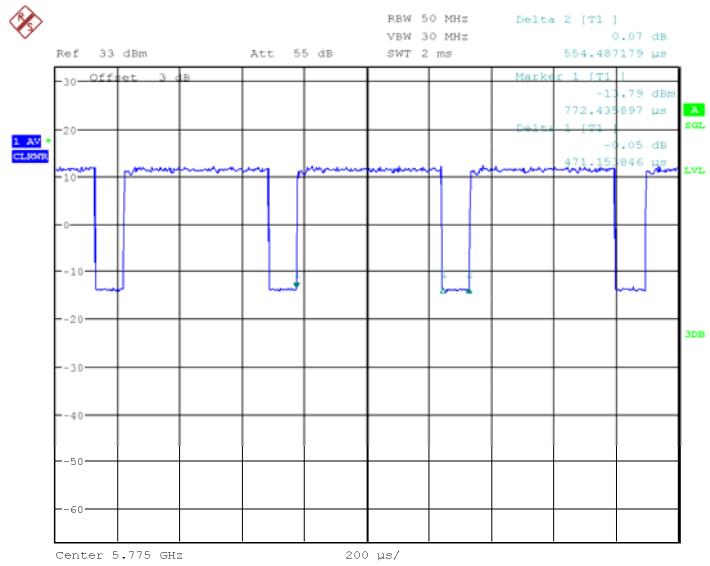
Date: 27.JUL.2020 16:06:39

802.11 ac40 mode

Date: 27.JUL.2020 16:00:09

802.11n-HT40 mode

Date: 27.JUL.2020 15:57:58

802.11n- ac80 mode

Date: 27.JUL.2020 15:22:33

Mode	Frequency Range (MHz)	Duty Cycle (%)	T (ms)	1/T (kHz)	10log(1/x)
802.11a	5150-5250	94.22	2.090	0.48	0.26
802.11ac20		96.23	1.962	0.51	0.17
802.11n-HT20		91.57	1.949	0.51	0.38
802.11ac40		90.96	0.968	1.03	0.41
802.11n-HT40		90.36	0.962	1.04	0.44
802.11ac80		84.97	0.471	2.12	0.71
802.11a	5725-5850	96.45	2.090	0.48	0.16
802.11ac20		96.23	1.962	0.51	0.17
802.11n-HT20		96.23	1.962	0.51	0.17
802.11ac40		92.64	0.968	1.03	0.33
802.11n-HT40		93.21	0.968	1.03	0.31
802.11ac80		84.97	0.471	2.12	0.71

Note: "x" means duty cycle.

Equipment Modifications

No modification was made to the EUT.

Support Equipment List and Details

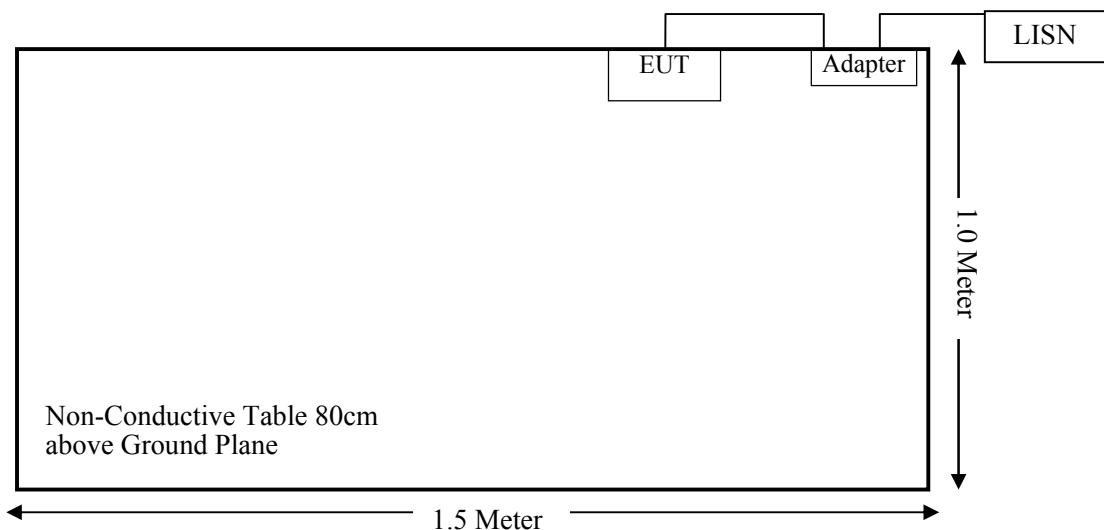
Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

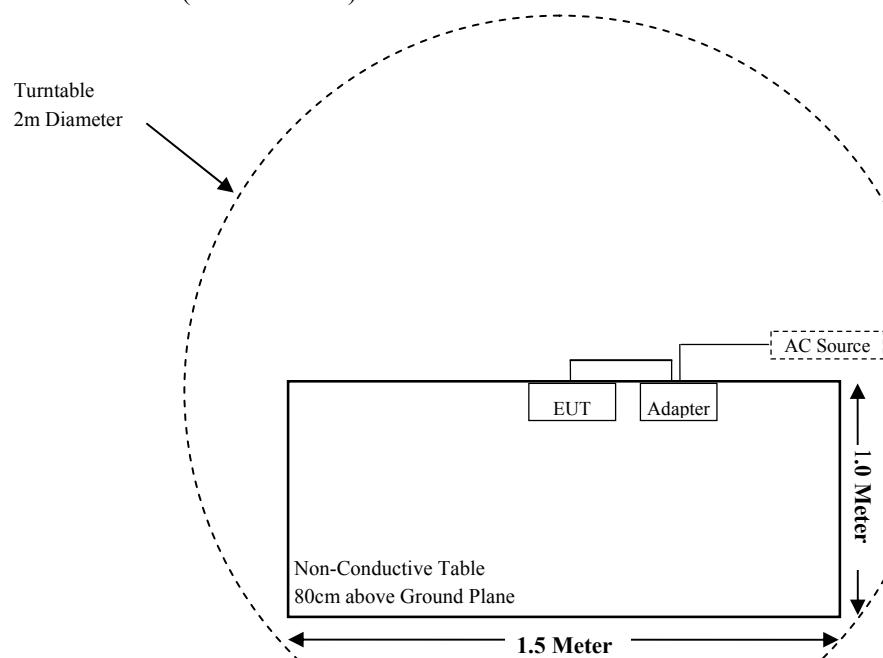
Cable Description	Shielding Type	Length (m)	From Port	To
USB Cable	Un-shielding	2.0	EUT	Adapter
Power Cable	Un-shielding	1.0	Adapter	LISN/ AC Source

Block Diagram of Test Setup

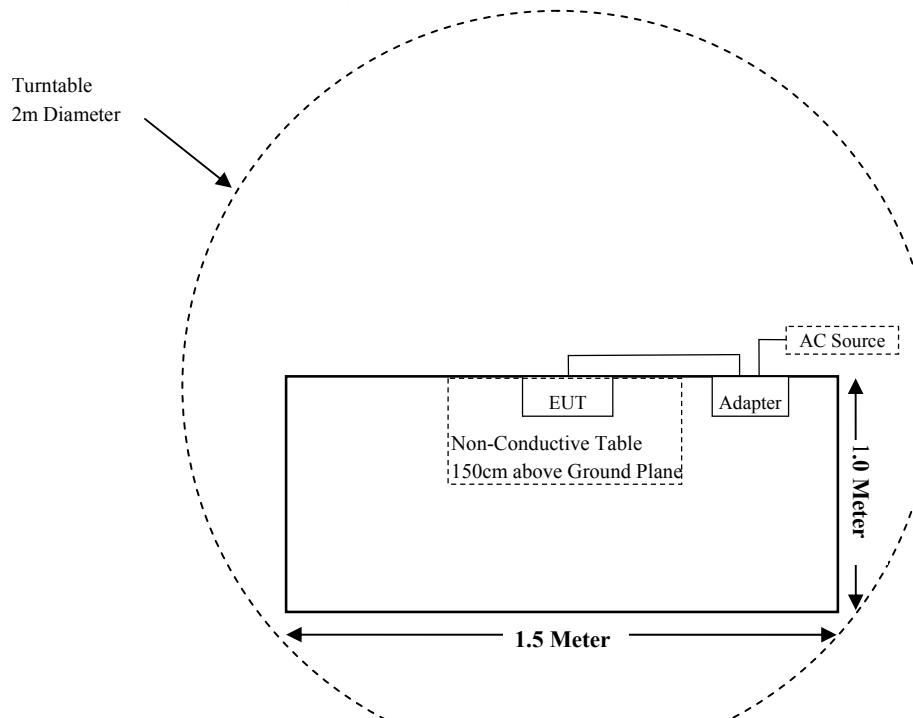
For Conducted Emissions:



For Radiated Emissions (Below 1GHz):



For Radiated Emissions (Above 1GHz):



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1310 & §2.1093	RF Exposure	Compliant
§15.203	Antenna Requirement	Compliant
§15.207 & §15.407(b) (8)	AC Power Line Conducted Emissions	Compliant
§15.205 & §15.209 & §15.407(B)(1)(4) (8)(9)	Undesirable Emission & Restricted Bands	Compliant
§15.407(a)(1) (12) & §15.407 (e)	Emission Bandwidth	Compliant
§15.407(a) (1) (3)	Conducted Transmitter Output Power	Compliant
§15.407(a) (1) (3)	Power Spectral Density	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test (Chamber 1#)					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2019-12-14	2020-12-13
Sunol Sciences	Broadband Antenna	JB3	A090413-1	2017-12-26	2020-12-25
Sonoma Instrumen	Pre-amplifier	310N	171205	2020-08-14	2021-08-13
Rohde & Schwarz	Auto Test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-8	008	2020-08-15	2021-08-14
MICRO-COAX	Coaxial Cable	Cable-9	009	2020-08-15	2021-08-14
MICRO-COAX	Coaxial Cable	Cable-10	010	2020-08-15	2021-08-14
Radiated Emission Test (Chamber 2#)					
Rohde & Schwarz	EMI Test Receiver	ESU40	100207	2020-04-01	2021-03-31
ETS-LINDGREN	Horn Antenna	3115	9207-3900	2020-07-15	2023-07-14
ETS-LINDGREN	Horn Antenna	3116	00084159	2019-12-12	2022-12-11
A.H.Systems, inc	Amplifier	PAM-0118P	512	2020-02-20	2021-02-19
SELECTOR	Amplifier	EM18G40G	060726	2020-03-22	2021-03-21
MICRO-TRONICS	Band Reject Filter	BCR50703	G094	2020-08-05	2021-08-04
MICRO-TRONICS	Band Reject Filter	BCR50705	G085	2020-08-05	2021-08-04
Narda	Attenuator	10dB	010	2020-08-15	2021-08-14
Rohde & Schwarz	Auto test Software	EMC32	100361	/	/
MICRO-COAX	Coaxial Cable	Cable-6	006	2020-08-15	2021-08-14
MICRO-COAX	Coaxial Cable	Cable-11	011	2020-08-15	2021-08-14
MICRO-COAX	Coaxial Cable	Cable-12	012	2020-08-15	2021-08-14
MICRO-COAX	Coaxial Cable	Cable-13	013	2020-08-15	2021-08-14
RF Conducted Test					
Rohde & Schwarz	EMI Test Receiver	ESIB26	100146	2019-12-14	2020-12-13
Agilent	Power Meter	N1912A	MY5000492	2019-11-18	2020-11-17
Agilent	Power Sensor	N1921A	MY54210024	2019-11-18	2020-11-17
Narda	Attenuator	10dB	010	2020-08-15	2021-08-14
Sunmi Co.,Ltd.	RF Cable	Sunmi C01	C01	Each Time	/
Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR	1316.3003K03-101746-zn	2020-08-05	2021-08-04
Rohde & Schwarz	LISN	ENV216	3560655016	2019-11-30	2020-11-29
Audix	Test Software	e3	V9	--	--
Rohde & Schwarz	Pulse limiter	ESH3-Z2	0357.8810.54	2020-04-03	2021-04-02
MICRO-COAX	Coaxial Cable	Cable-15	015	2020-08-15	2021-08-14

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

FCC §1.1310 & §2.1093 - RF EXPOSURE

Applicable Standard

According to FCC§1.1310,§2.1093.

Measurement Result

Compliance, please refer to SAR Report: RKSA200706002-20A.

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, if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Antenna Connector Construction

The EUT has an FPC antenna for 5G Wi-Fi and antenna gain is -2.2 dBi which was permanently attached, fulfill the requirement of this section. Please refer to the EUT photos.

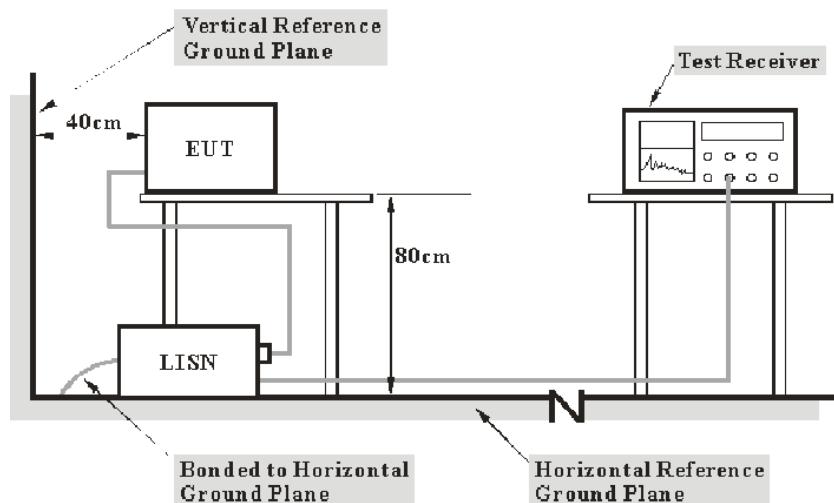
Result: Compliant.

FCC §15.407 (b) (6) §15.207 (a) – AC POWER LINE 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 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 outlet of 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.

Factor & Over Limit Calculation

The Corrected factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

$$\text{Factor (dB)} = \text{LISN VDF (dB)} + \text{Cable Loss (dB)} + \text{Transient Limiter Attenuation (dB)}$$

The “**Over Limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an over limit of 7dB means the emission is 7 dB above the limit. The equation for over limit calculation is as follows:

$$\text{Over Limit (dB)} = \text{Read level (dB}\mu\text{V)} + \text{Factor (dB)} - \text{Limit (dB}\mu\text{V)}$$

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207.

Test Data

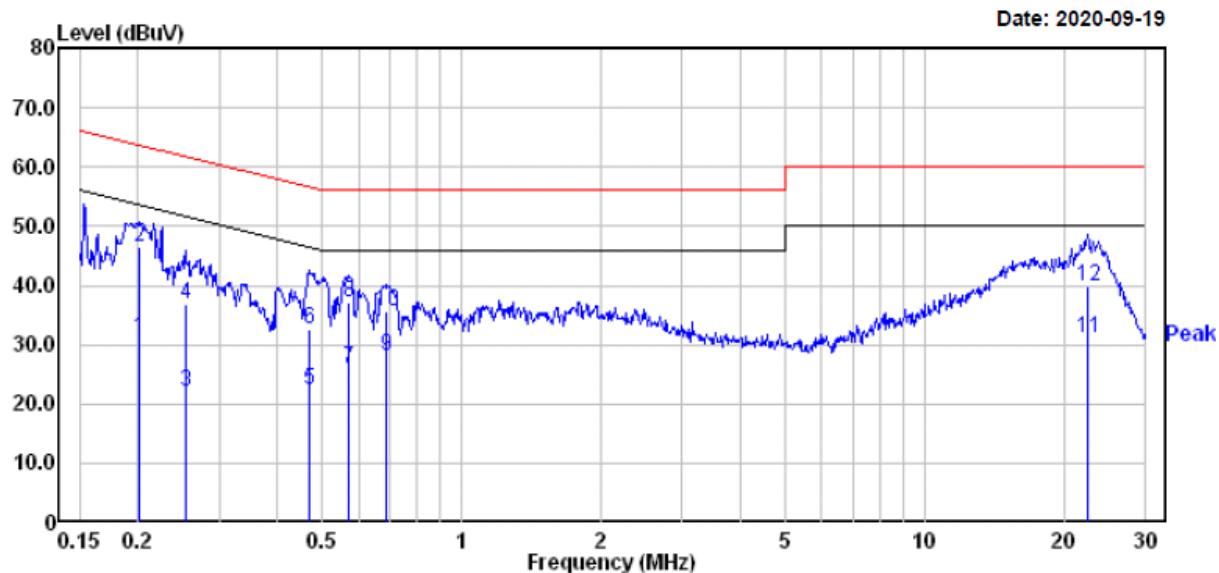
Environmental Conditions

Temperature:	24.5-26.3 °C
Relative Humidity:	51-55 %
ATM Pressure:	100.9-101.2 kPa

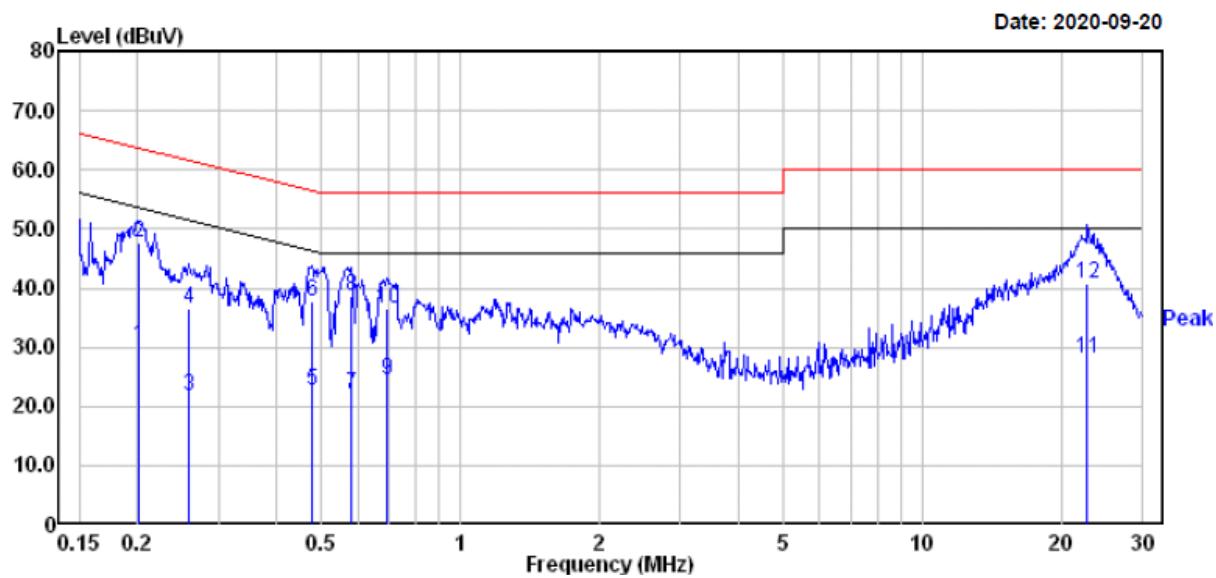
The testing was performed by Chris Wang from 2020-09-19 to 2020-09-20.

EUT operation mode: Transmitting in 802.11a mode high channel of 5150~5250MHz (worst case)

AC 120V/60 Hz, Line



Freq	Read			Limit Line	Over Limit	Remark
	MHz	Level dBuV	Factor dB			
1	0.202	11.20	19.82	31.02	53.54	-22.52 Average
2	0.202	26.60	19.82	46.42	63.54	-17.12 QP
3	0.253	2.10	19.82	21.92	51.64	-29.72 Average
4	0.253	17.10	19.82	36.92	61.64	-24.72 QP
5	0.469	2.61	19.75	22.36	46.54	-24.18 Average
6	0.469	12.91	19.75	32.66	56.54	-23.88 QP
7	0.570	6.20	19.75	25.95	46.00	-20.05 Average
8	0.570	17.40	19.75	37.15	56.00	-18.85 QP
9	0.686	8.20	19.75	27.95	46.00	-18.05 Average
10	0.686	15.80	19.75	35.55	56.00	-20.45 QP
11	22.535	11.20	19.81	31.01	50.00	-18.99 Average
12	22.535	20.00	19.81	39.81	60.00	-20.19 QP

AC 120V/60 Hz, Neutral

Freq	Read			Limit	Over	Remark
	MHz	Level	Factor			
1	0.202	10.40	19.82	30.22	53.54	-23.32 Average
2	0.202	27.90	19.82	47.72	63.54	-15.82 QP
3	0.259	1.90	19.82	21.72	51.47	-29.75 Average
4	0.259	16.70	19.82	36.52	61.47	-24.95 QP
5	0.476	2.80	19.76	22.56	46.41	-23.85 Average
6	0.476	18.10	19.76	37.86	56.41	-18.55 QP
7	0.579	2.30	19.75	22.05	46.00	-23.95 Average
8	0.579	18.80	19.75	38.55	56.00	-17.45 QP
9	0.694	4.60	19.75	24.35	46.00	-21.65 Average
10	0.694	16.70	19.75	36.45	56.00	-19.55 QP
11	22.775	8.40	19.80	28.20	50.00	-21.80 Average
12	22.775	21.10	19.80	40.90	60.00	-19.10 QP

§15.205 & §15.209 & §15.407(B)(1)(4) (8)(9) – UNDESIRABLE EMISSION & RESTRICTED BANDS

Applicable Standard

FCC §15.407 (B)(1)(4) (8) (9); §15.209; §15.205;

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 EIRP of -27dBm/MHz

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

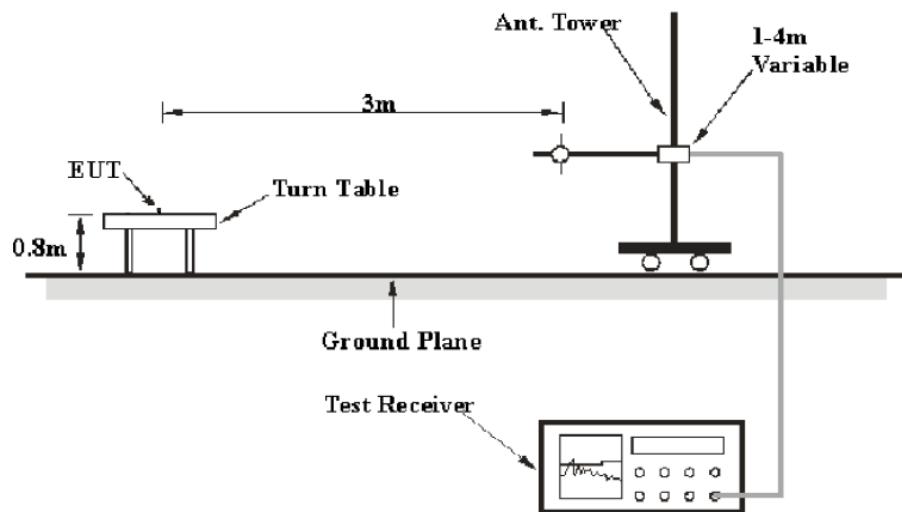
Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

As per FCC §15.35(d): Unless otherwise specified, on any frequency or frequencies above 1000MHz, the radiated emission limits are based on the use of measurement instrumentation employing an average detector function. Unless otherwise specified, measurements above 1000MHz shall be performed using a minimum resolution bandwidth of 1MHz.

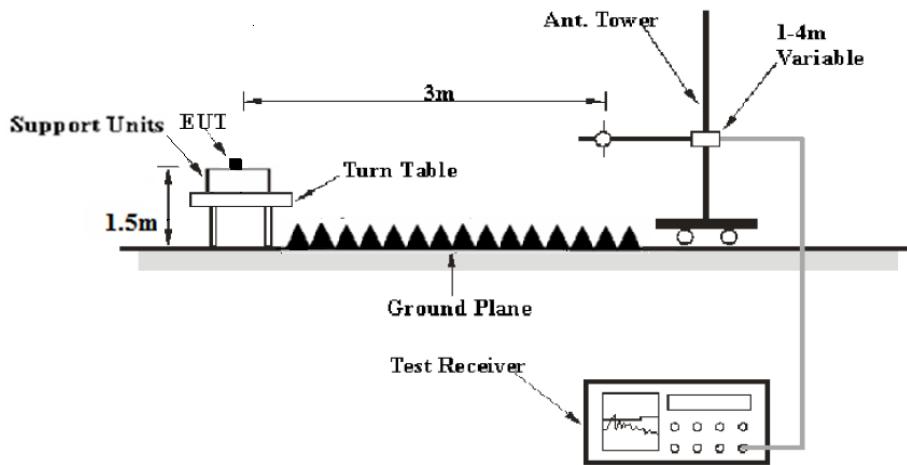
According to 789033 D02 General UNII Test Procedures New Rules v02r01, emission shall be computed as: $E [dB\mu V/m] = EIRP [dBm] + 95.2$, for $d = 3$ meters.

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.

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 Setup was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1GHz	1MHz	3 MHz	/	PK
	1MHz	3 MHz	/	Ave.

Test Procedure

During the radiated emission test, the adapter was connected to the first AC floor outlet and the other support equipments were connected to the second AC floor outlet.

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

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

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Loss 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:

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

Test Data

Environmental Conditions

Temperature:	23.6~26.4°C
Relative Humidity:	48~63%
ATM Pressure:	100.7~101.6 kPa

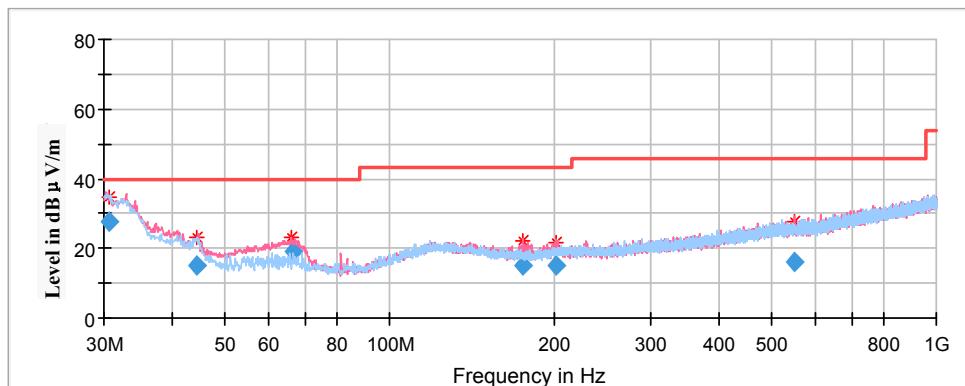
The testing was performed by Chris Wang from 2020-09-16 to 2020-10-22.

Test Mode: Transmitting

Spurious Emission Test

30MHz-1GHz(5150-5250MHz Band):

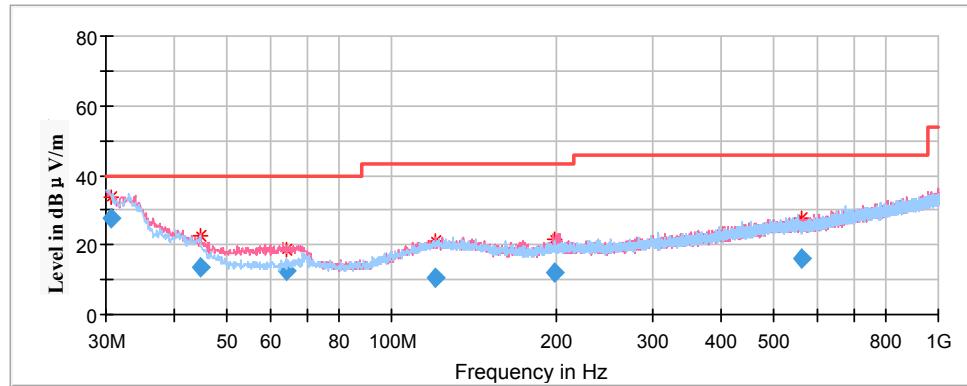
Pre-scan with 802.11a, 802.11ac20, 802.11n-HT20, 802.11ac40, 802.11n-HT40 and 802.11 ac80 modes of operation in the X,Y and Z axes of orientation, the worst case 802.11a mode in channel 5240MHz in Z-axis of orientation was recorded.



Frequency (MHz)	Corrected Amplitude	Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
	QuasiPeak (dBµV/m)	Height (cm)	Polar (H/V)				
30.677434	27.88	100.0	V	168.0	-4.8	40.00	12.12
44.205350	15.25	100.0	V	1.0	-14.0	40.00	24.75
66.347000	19.33	100.0	V	142.0	-18.0	40.00	20.67
175.406500	15.23	100.0	V	272.0	-13.9	43.50	28.27
201.605950	14.87	100.0	V	183.0	-12.8	43.50	28.63
550.979550	16.26	200.0	V	286.0	-5.8	46.00	29.74

30MHz-1GHz(5725-5850MHz Band):

Pre-scan with 802.11a, 802.11ac20, 802.11n-HT20, 802.11ac40, 802.11n-HT40 and 802.11 ac80 modes of operation in the X,Y and Z axes of orientation, the worst case 802.11a mode in channel 5825MHz in Z-axis of orientation was recorded



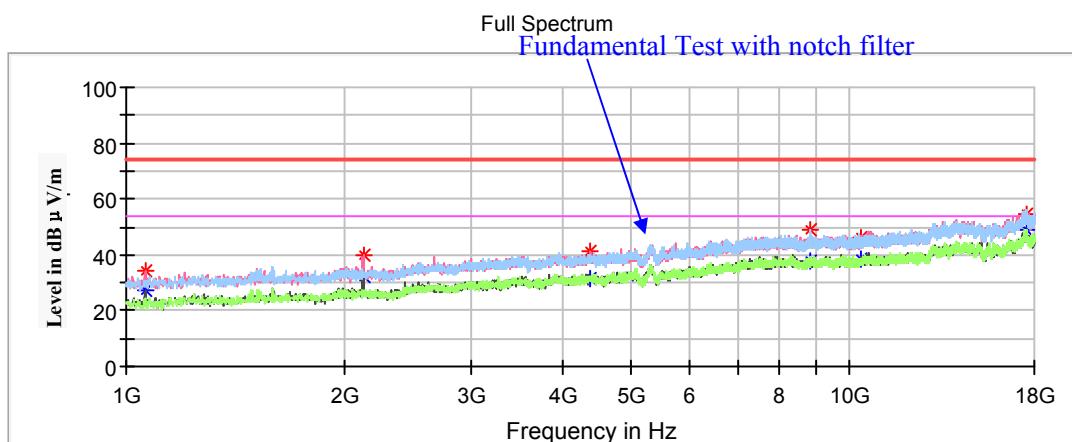
Frequency (MHz)	Corrected Amplitude	Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
	QuasiPeak (dBµV/m)	Height (cm)	Polar (H/V)				
30.661466	27.61	200.0	H	208.0	-4.8	40.00	12.39
44.699750	13.47	200.0	V	308.0	-14.4	40.00	26.53
64.250050	12.82	200.0	V	134.0	-18.1	40.00	27.18
120.578200	10.73	100.0	V	33.0	-11.6	43.50	32.77
198.635900	12.29	100.0	V	28.0	-12.9	43.50	31.21
564.276400	16.29	100.0	V	205.0	-5.7	46.00	29.71

1GHz-18GHz(5150-5250MHz Band):**802.11a Mode:**

(Pre-scan in the X, Y and Z axes of orientation, the worst case **Z-axis of orientation** was recorded.)

Note:

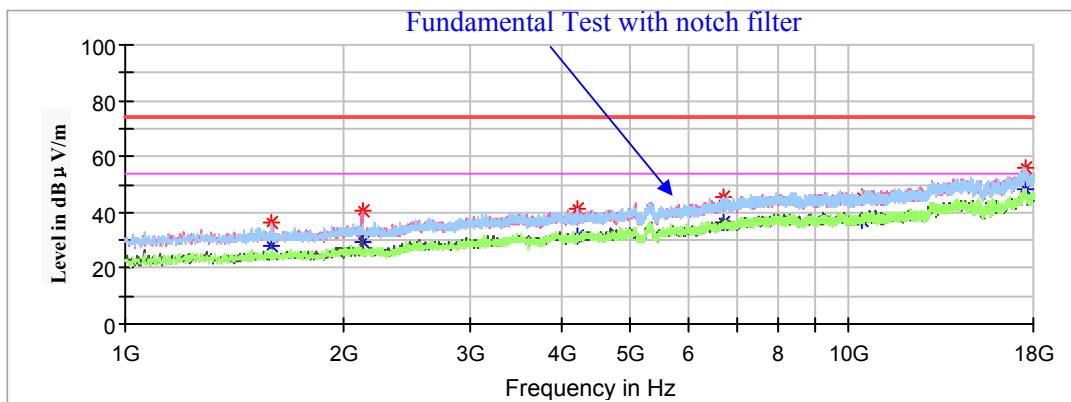
1. This test was performed with the 5150-5250MHz band reject filter.
2. Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
Corrected Amplitude = Corrected Factor + Reading
Margin = Limit - Corrected. Amplitude

Low Channel: 5180MHz

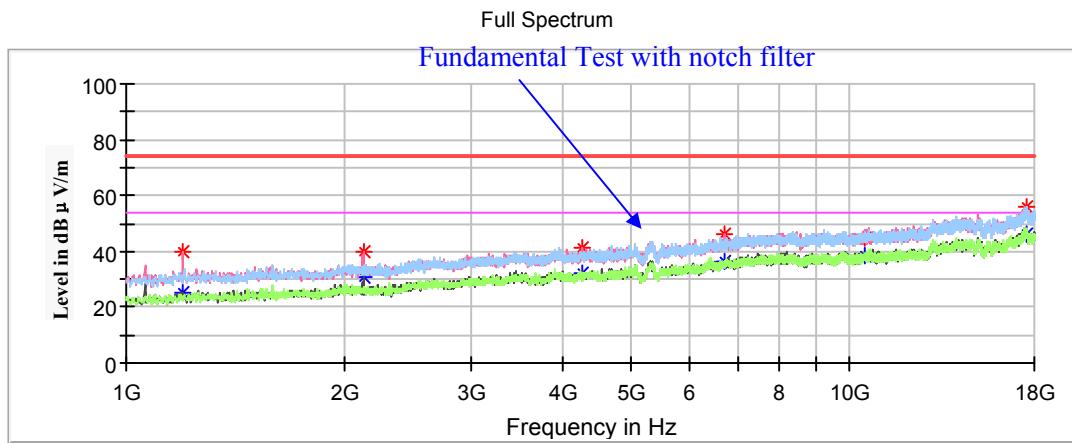
Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1061.200000	34.00	---	150.0	V	90.0	-18.7	74.00	40.00
1061.200000	---	27.19	150.0	V	90.0	-18.7	54.00	26.81
2130.500000	40.07	---	150.0	V	77.0	-13.9	68.20	28.13
4389.800000	41.14	---	200.0	V	143.0	-6.4	74.00	32.86
4389.800000	---	31.73	200.0	V	143.0	-6.4	54.00	22.27
8814.900000	48.97	---	150.0	V	103.0	1.7	68.20	19.23
10360.000000	46.20	---	150.0	H	0.0	2.2	68.20	22.00
17513.800000	54.89	---	200.0	H	63.0	8.9	68.20	13.31

Middle Channel: 5200MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
	MaxPeak (dBµV/m)	Average (dBµV/m)	Height (cm)	Polar (H/V)				
1593.300000	---	28.04	150.0	V	33.0	-16.0	54.00	25.96
1593.300000	36.38	---	150.0	V	33.0	-16.0	74.00	37.62
2125.400000	40.44	---	150.0	V	270.0	-14.0	68.20	27.76
4206.200000	41.04	---	150.0	V	58.0	-6.7	74.00	32.96
4206.200000	---	31.61	150.0	V	58.0	-6.7	54.00	22.39
6723.900000	45.64	---	150.0	H	264.0	-0.7	68.20	22.56
10400.000000	45.46	---	200.0	V	350.0	2.2	68.20	22.74
17542.700000	55.88	---	200.0	H	315.0	8.9	68.20	12.32

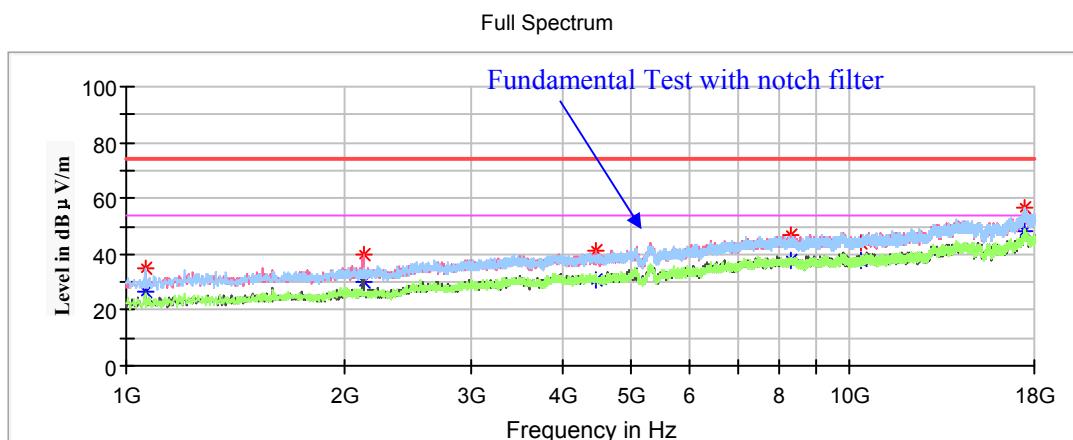
High Channel: 5240MHz

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
	MaxPeak (dBµV/m)	Average (dBµV/m)	Height (cm)	Polar (H/V)				
1195.500000	39.68	---	150.0	V	76.0	-18.0	74.00	34.32
1195.500000	---	25.27	150.0	V	76.0	-18.0	54.00	28.73
2130.500000	39.99	---	200.0	V	76.0	-13.9	68.20	28.21
4275.900000	---	32.01	150.0	V	25.0	-6.6	54.00	21.99
4275.900000	40.94	---	150.0	V	25.0	-6.6	74.00	33.06
6695.000000	45.86	---	150.0	V	140.0	-0.7	68.20	22.34
10480.000000	44.61	---	200.0	H	350.0	2.3	68.20	23.59
17586.900000	56.03	---	200.0	V	51.0	8.9	68.20	12.17

802.11ac20 Mode:*(Pre-scan in the X, Y and Z axes of orientation, the worst case Z-axis of orientation was recorded.)*

Note:

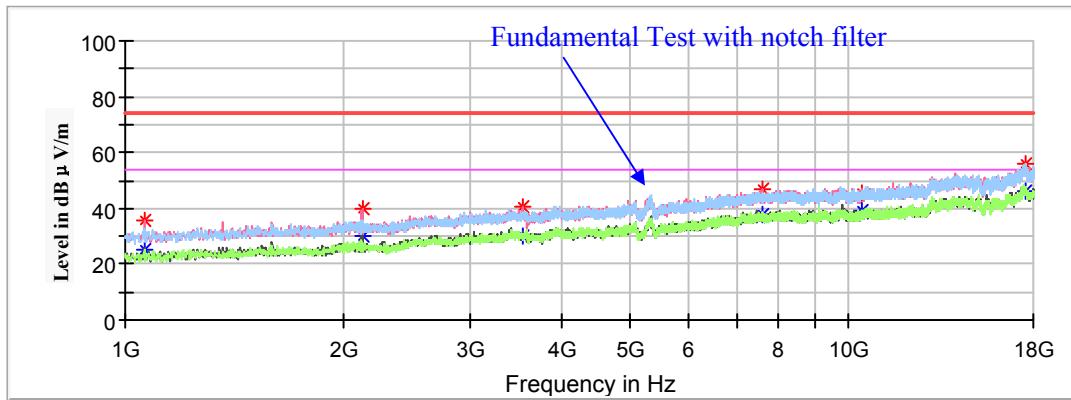
1. This test was performed with the 5150-5250MHz band reject filter.
2. Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
Corrected Amplitude = Corrected Factor + Reading
Margin = Limit - Corrected. Amplitude

Low Channel: 5180MHz

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1061.200000	35.08	---	200.0	V	98.0	-18.7	74.00	38.92
1061.200000	---	26.48	200.0	V	98.0	-18.7	54.00	27.52
2128.800000	40.13	---	150.0	V	266.0	-13.9	68.20	28.07
4461.200000	41.15	---	150.0	V	72.0	-6.3	68.20	27.05
8313.400000	---	37.99	150.0	V	47.0	1.5	54.00	16.01
8313.400000	46.57	---	150.0	V	47.0	1.5	74.00	27.43
10360.000000	44.36	---	150.0	H	63.0	2.2	68.20	23.84
17496.800000	56.48	---	200.0	H	232.0	8.9	68.20	11.72

Middle Channel: 5200MHz

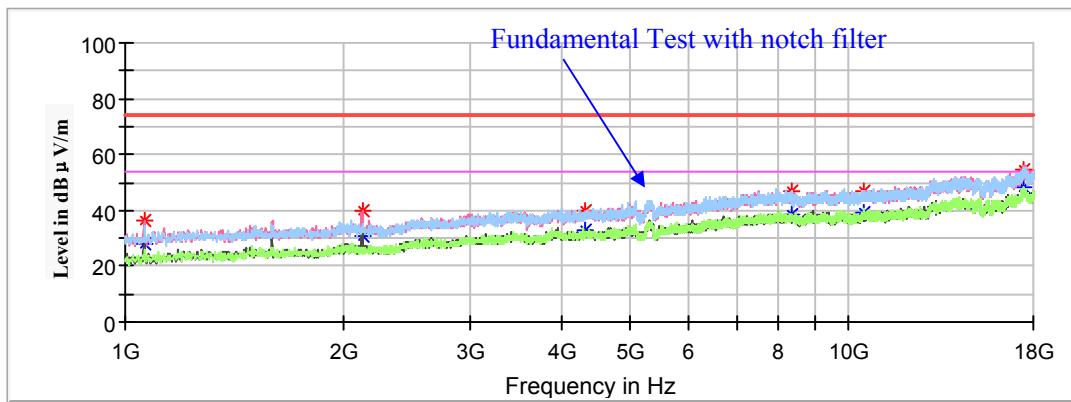
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1064.600000	35.59	---	200.0	H	339.0	-18.7	74.00	38.41
1064.600000	---	24.92	200.0	H	339.0	-18.7	54.00	29.08
2130.500000	40.00	---	150.0	V	77.0	-13.9	68.20	28.20
3534.700000	40.28	---	150.0	H	237.0	-8.7	68.20	27.92
7582.400000	47.07	---	150.0	V	179.0	1.2	74.00	26.93
7582.400000	---	37.51	150.0	V	179.0	1.2	54.00	16.49
10400.000000	45.46	---	200.0	H	0.0	2.2	68.20	22.74
17517.200000	56.08	---	200.0	V	116.0	8.9	68.20	12.12

High Channel: 5240MHz

Full Spectrum



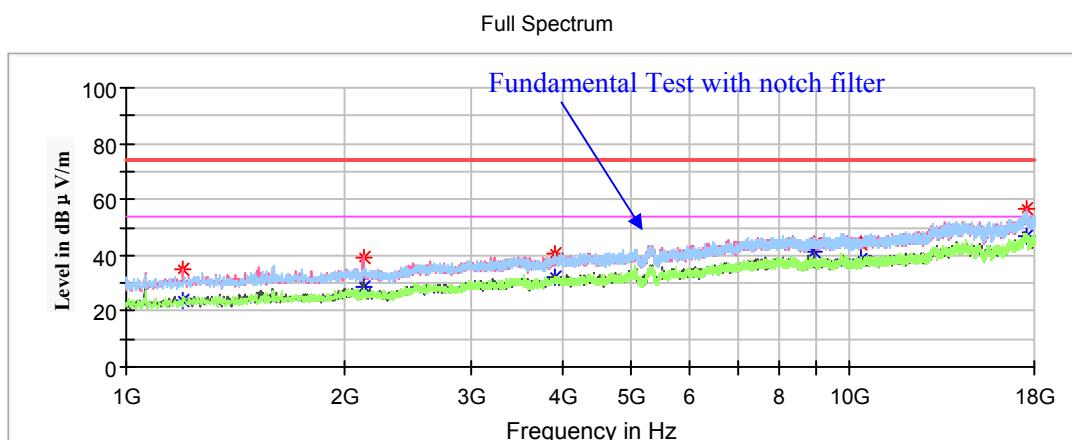
Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1061.200000	36.43	---	150.0	V	238.0	-18.7	74.00	37.57
1061.200000	---	28.07	150.0	V	238.0	-18.7	54.00	25.93
2128.800000	40.16	---	200.0	V	74.0	-13.9	68.20	28.04
4313.300000	---	33.13	150.0	V	186.0	-6.5	54.00	20.87
4313.300000	39.98	---	150.0	V	186.0	-6.5	74.00	34.02
8357.600000	---	38.15	150.0	H	31.0	1.5	54.00	15.85
8357.600000	47.08	---	150.0	H	31.0	1.5	74.00	26.92
10480.000000	47.05	---	150.0	H	344.0	2.3	68.20	21.15
17501.900000	54.25	---	200.0	H	3.0	8.9	68.20	13.95

802.11n-HT20 Mode:

Pre-scan with X,Y and Z axes of orientation, the worst case Z-axis of orientation was recorded

Note:

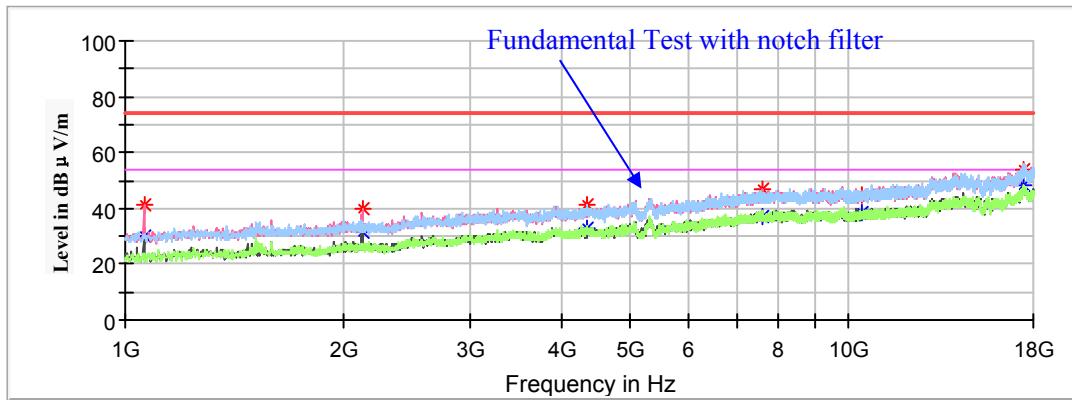
1. This test was performed with the 5150-5250MHz band reject filter.
2. Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
Corrected Amplitude = Corrected Factor + Reading
Margin = Limit - Corrected. Amplitude

Low Channel: 5180MHz

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1197.200000	---	23.45	150.0	V	149.0	-18.0	54.00	30.55
1197.200000	34.93	---	150.0	V	149.0	-18.0	74.00	39.07
2125.400000	39.47	---	150.0	V	252.0	-14.0	68.20	28.73
3917.200000	---	32.10	200.0	H	232.0	-7.3	54.00	21.90
3917.200000	40.85	---	200.0	H	232.0	-7.3	74.00	33.15
8908.400000	44.08	---	150.0	V	213.0	1.8	68.20	24.12
10360.000000	43.75	---	150.0	V	60.0	2.2	68.20	24.45
17539.300000	56.56	---	200.0	V	200.0	8.9	68.20	11.64

Middle Channel: 5200MHz

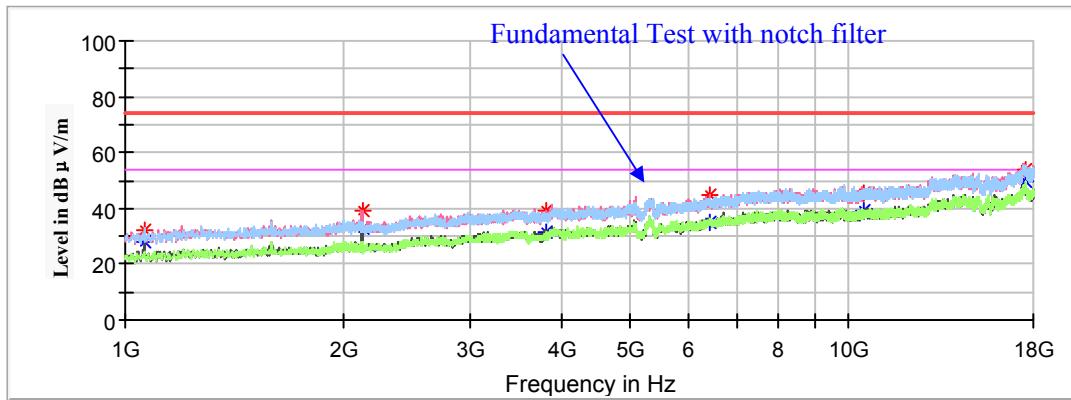
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1061.200000	---	30.06	150.0	V	68.0	-18.7	54.00	23.94
1061.200000	40.91	---	150.0	V	68.0	-18.7	74.00	33.09
2127.100000	39.73	---	150.0	V	268.0	-13.9	68.20	28.47
4357.500000	---	32.60	200.0	H	15.0	-6.4	54.00	21.40
4357.500000	41.22	---	200.0	H	15.0	-6.4	74.00	32.78
7580.700000	---	36.87	150.0	V	0.0	1.2	54.00	17.13
7580.700000	47.03	---	150.0	V	0.0	1.2	74.00	26.97
10400.000000	44.79	---	200.0	H	103.0	2.2	68.20	23.41
17496.800000	53.51	---	150.0	H	217.0	8.9	68.20	14.69

High Channel: 5240MHz

Full Spectrum

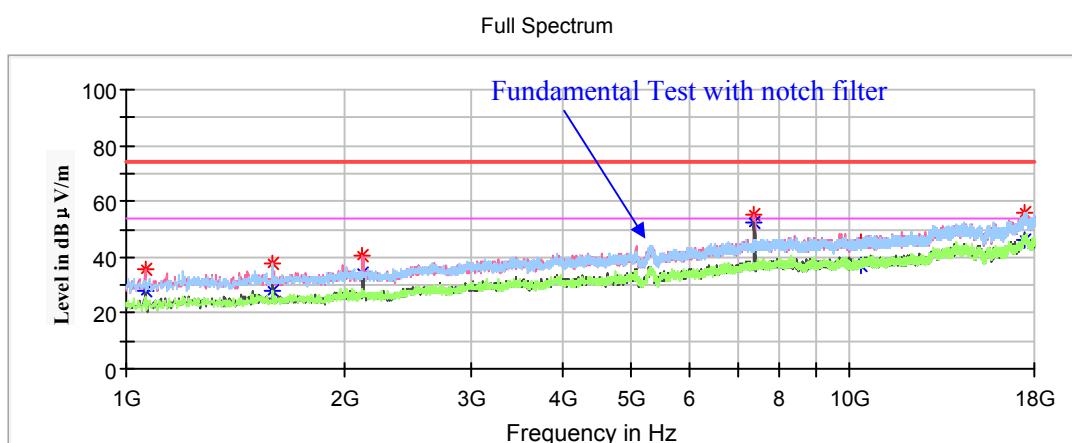


Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1062.900000	---	28.31	150.0	V	103.0	-18.7	54.00	25.69
1062.900000	32.31	---	150.0	V	103.0	-18.7	74.00	41.69
2130.500000	39.50	---	200.0	V	258.0	-13.9	68.20	28.70
3813.500000	---	31.82	150.0	V	143.0	-7.7	54.00	22.18
3813.500000	39.41	---	150.0	V	143.0	-7.7	74.00	34.59
6441.700000	45.02	---	150.0	H	258.0	-1.4	68.20	23.18
10480.000000	45.35	---	150.0	V	296.0	2.3	68.20	22.85
17517.200000	53.63	---	200.0	H	178.0	8.9	68.20	14.57

802.11ac40 Mode:(Pre-scan in the X, Y and Z axes of orientation, the worst case **Z-axis of orientation** was recorded.)

Note:

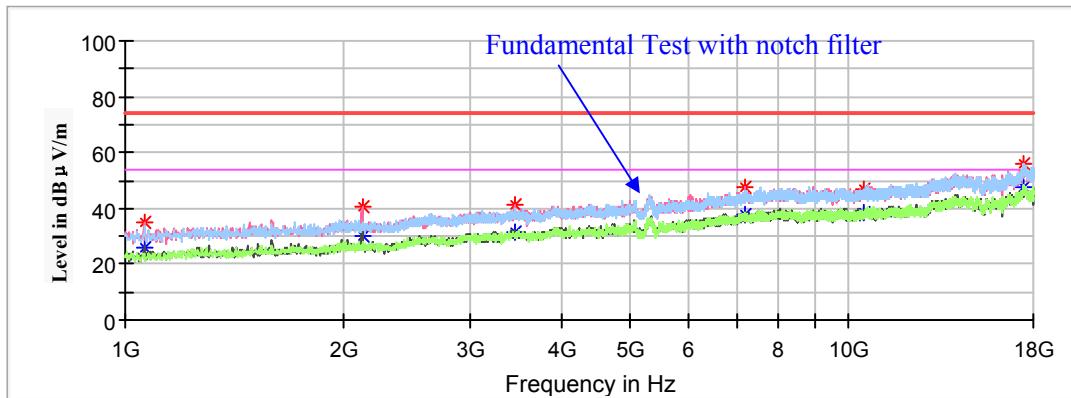
1. This test was performed with the 5150-5250MHz band reject filter.
2. Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
Corrected Amplitude = Corrected Factor + Reading
Margin = Limit - Corrected. Amplitude

Low Channel: 5190MHz

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1061.200000	---	27.84	150.0	V	112.0	-18.7	54.00	26.16
1061.200000	36.01	---	150.0	V	112.0	-18.7	74.00	37.99
1595.000000	37.48	---	200.0	H	0.0	-16.0	74.00	36.52
1595.000000	---	27.70	200.0	H	0.0	-16.0	54.00	26.30
2123.700000	40.89	---	200.0	V	266.0	-14.0	68.20	27.31
7388.600000	---	52.72	150.0	V	150.0	0.8	54.00	1.28
7390.300000	55.56	---	150.0	V	150.0	0.8	74.00	18.44
10380.000000	45.31	---	150.0	V	332.0	2.2	68.20	22.89
17476.400000	55.70	---	200.0	H	245.0	8.8	68.20	12.50

High Channel: 5230MHz

Full Spectrum

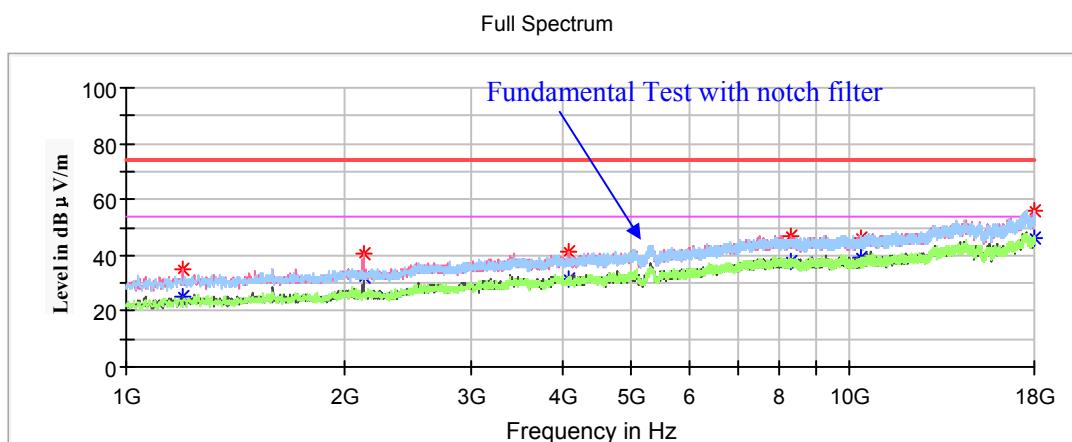


Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1061.200000	---	26.22	150.0	V	57.0	-18.7	54.00	27.78
1061.200000	34.95	---	150.0	V	57.0	-18.7	74.00	39.05
2125.400000	40.31	---	200.0	V	83.0	-14.0	68.20	27.89
3448.000000	41.59	---	150.0	V	121.0	-9.0	68.20	26.61
7189.700000	47.71	---	150.0	V	0.0	0.4	68.20	20.49
10460.000000	46.58	---	150.0	H	325.0	2.3	68.20	21.62
17495.100000	56.08	---	200.0	H	356.0	8.9	68.20	12.12

802.11n-HT40 Mode:*Pre-scan with X,Y and Z axes of orientation, the worst case **Z-axis of orientation** was recorded*

Note:

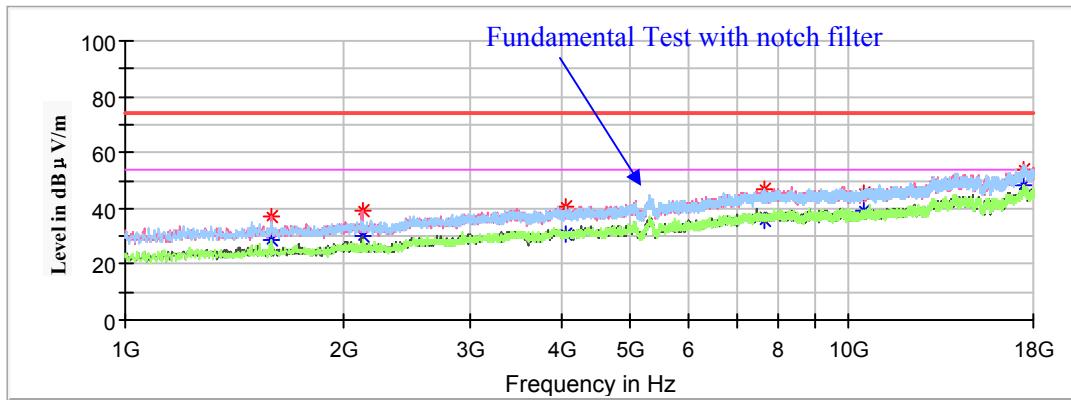
1. This test was performed with the 5150-5250MHz band reject filter.
2. Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
Corrected Amplitude = Corrected Factor + Reading
Margin = Limit - Corrected. Amplitude

Low Channel: 5190MHz

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1195.500000	35.20	---	200.0	V	65.0	-18.0	74.00	38.80
1195.500000	---	24.92	200.0	V	65.0	-18.0	54.00	29.08
2130.500000	40.71	---	150.0	V	244.0	-13.9	68.20	27.49
4097.400000	40.99	---	200.0	V	103.0	-6.8	74.00	33.01
4097.400000	---	31.48	200.0	V	103.0	-6.8	54.00	22.52
8270.900000	---	37.62	200.0	H	350.0	1.5	54.00	16.38
8270.900000	46.97	---	200.0	H	350.0	1.5	74.00	27.03
10380.000000	46.11	---	150.0	V	0.0	2.2	68.20	22.09
17949.000000	---	45.82	150.0	H	284.0	8.8	54.00	8.18
17949.000000	56.01	---	150.0	H	284.0	8.8	74.00	17.99

High Channel: 5230MHz

Full Spectrum



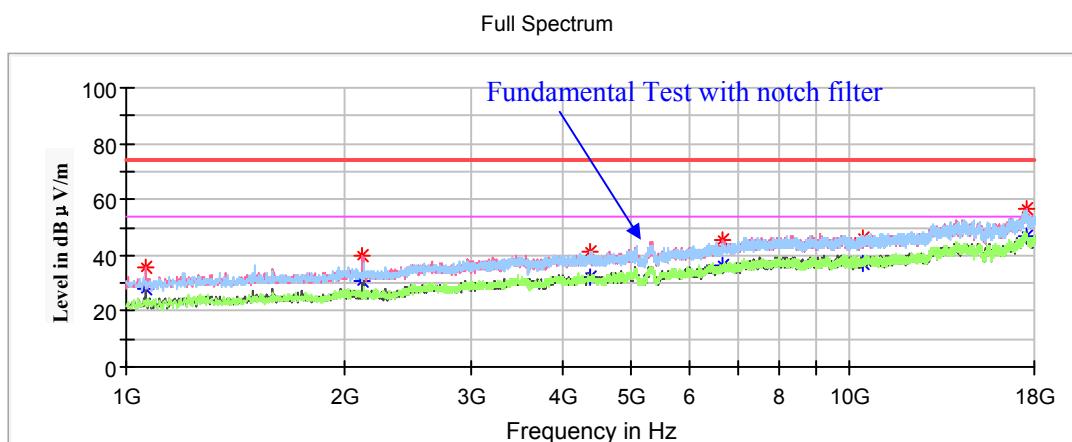
Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1593.300000	36.79	---	200.0	H	257.0	-16.0	74.00	37.21
1593.300000	---	28.44	200.0	H	257.0	-16.0	54.00	25.56
2128.800000	38.94	---	150.0	V	77.0	-13.9	68.20	29.26
4073.600000	---	30.97	200.0	H	237.0	-6.9	54.00	23.03
4073.600000	40.80	---	200.0	H	237.0	-6.9	74.00	33.20
7660.600000	---	35.51	200.0	H	262.0	1.3	54.00	18.49
7660.600000	46.58	---	200.0	H	262.0	1.3	74.00	27.42
10460.000000	45.59	---	200.0	H	0.0	2.3	68.20	22.61
17501.900000	54.05	---	150.0	V	102.0	8.9	68.20	14.15

802.11ac80 Mode:

*Pre-scan with X,Y and Z axes of orientation, the worst case **Z-axis of orientation** was recorded*

Note:

1. This test was performed with the 5150-5250MHz band reject filter.
2. Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
Corrected Amplitude = Corrected Factor + Reading
Margin = Limit - Corrected. Amplitude

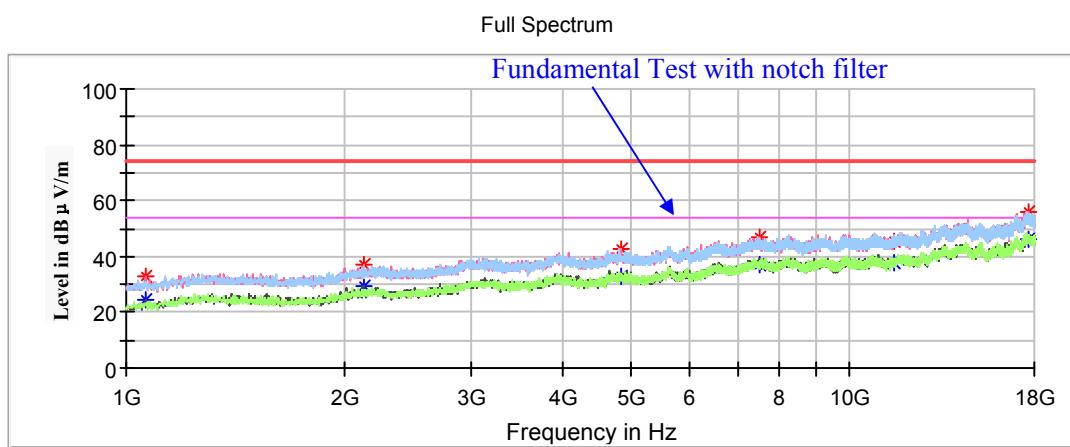
Low Channel: 5210MHz

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1064.600000	35.57	---	150.0	V	79.0	-18.7	74.00	38.43
1064.600000	---	27.92	150.0	V	79.0	-18.7	54.00	26.08
2123.700000	39.55	---	200.0	V	318.0	-14.0	68.20	28.65
4367.700000	---	32.26	200.0	H	257.0	-6.4	54.00	21.74
4367.700000	41.18	---	200.0	H	257.0	-6.4	74.00	32.82
6691.600000	45.13	---	150.0	V	306.0	-0.8	68.20	23.07
10420.000000	46.37	---	200.0	H	141.0	2.2	68.20	21.83
17525.700000	56.33	---	150.0	V	27.0	8.9	68.20	11.87

5725-5850MHz Band:**1GHz-18GHz:****802.11a Mode:**(Pre-scan in the X,Y and Z axes of orientation, the worst case **Z-axis of orientation** was recorded.)

Note:

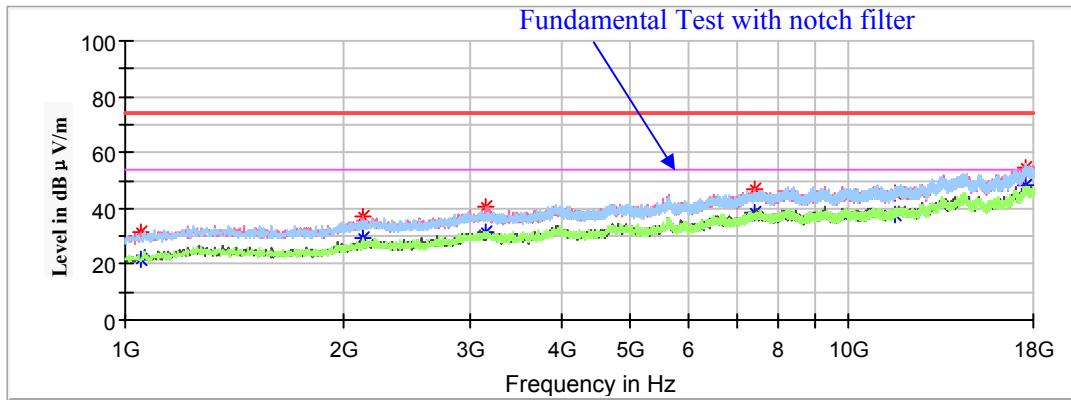
1. This test was performed with the 5725-5850MHz band reject filter.
2. Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
Corrected Amplitude = Corrected Factor + Reading
Margin = Limit - Corrected. Amplitude

Low Channel: 5745MHz

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1062.900000	---	24.56	150.0	V	117.0	-18.7	54.00	29.44
1062.900000	32.83	---	150.0	V	117.0	-18.7	74.00	41.17
2130.500000	37.41	---	150.0	V	251.0	-13.9	68.20	30.79
4826.700000	---	32.59	150.0	V	170.0	-5.5	54.00	21.41
4826.700000	42.74	---	150.0	V	170.0	-5.5	74.00	31.26
7483.800000	---	37.04	150.0	H	211.0	1.0	54.00	16.96
7483.800000	46.94	---	150.0	H	211.0	1.0	74.00	27.06
11490.000000	---	37.84	150.0	V	276.0	2.8	54.00	16.16
11490.000000	45.47	---	150.0	V	276.0	2.8	74.00	28.53
17624.300000	55.83	---	150.0	V	315.0	8.9	68.20	12.37

Middle Channel: 5785MHz

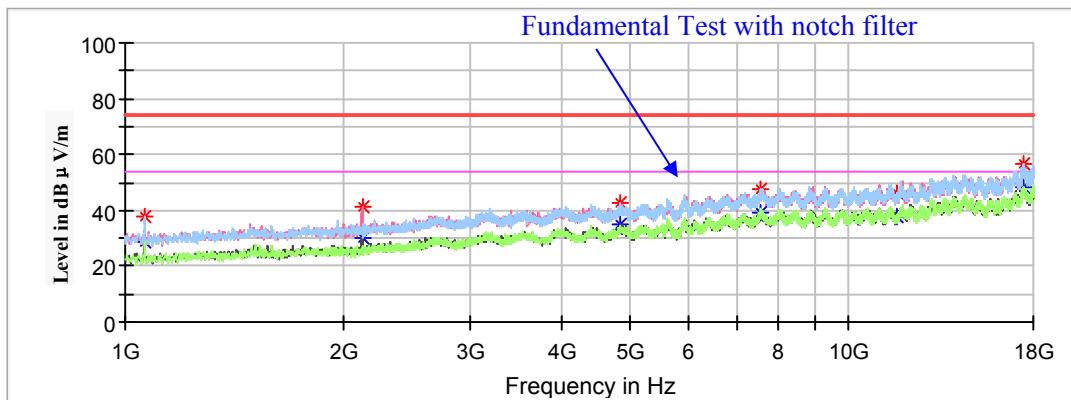
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1049.300000	31.65	---	150.0	V	170.0	-18.8	74.00	42.35
1049.300000	---	21.98	150.0	V	170.0	-18.8	54.00	32.02
2130.500000	37.37	---	150.0	V	261.0	-13.9	68.20	30.83
3143.700000	40.54	---	200.0	V	324.0	-9.7	68.20	27.66
7422.600000	---	38.49	150.0	V	0.0	0.9	54.00	15.51
7422.600000	46.85	---	150.0	V	0.0	0.9	74.00	27.15
11570.000000	---	37.58	200.0	H	248.0	2.9	54.00	16.42
11570.000000	45.46	---	200.0	H	248.0	2.9	74.00	28.54
17590.300000	54.39	---	150.0	H	78.0	8.9	68.20	13.81

High Channel: 5825MHz

Full Spectrum

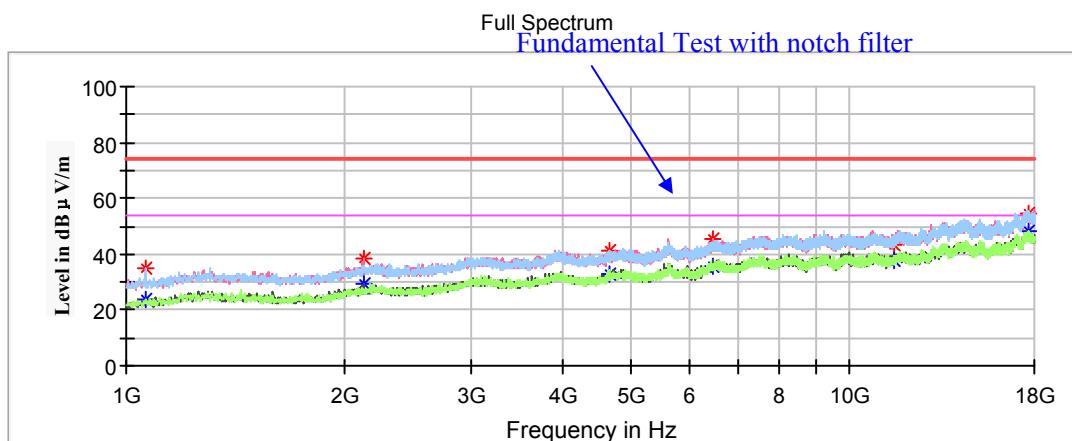


Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1062.900000	---	28.59	200.0	H	0.0	-18.7	54.00	25.41
1062.900000	37.54	---	200.0	H	0.0	-18.7	74.00	36.46
2125.400000	41.55	---	150.0	V	288.0	-14.0	68.20	26.65
4819.900000	---	34.93	150.0	V	326.0	-5.6	54.00	19.07
4819.900000	42.31	---	150.0	V	326.0	-5.6	74.00	31.69
7567.100000	---	38.86	150.0	H	207.0	1.1	54.00	15.14
7567.100000	47.63	---	150.0	H	207.0	1.1	74.00	26.37
11650.000000	---	37.45	200.0	H	45.0	3.1	54.00	16.55
11650.000000	46.10	---	200.0	H	45.0	3.1	74.00	27.90
17488.300000	56.50	---	200.0	H	256.0	8.8	68.20	11.70

802.11ac20 Mode:(Pre-scan in the X, Y and Z axes of orientation, the worst case **Z-axis of orientation** was recorded.)

Note:

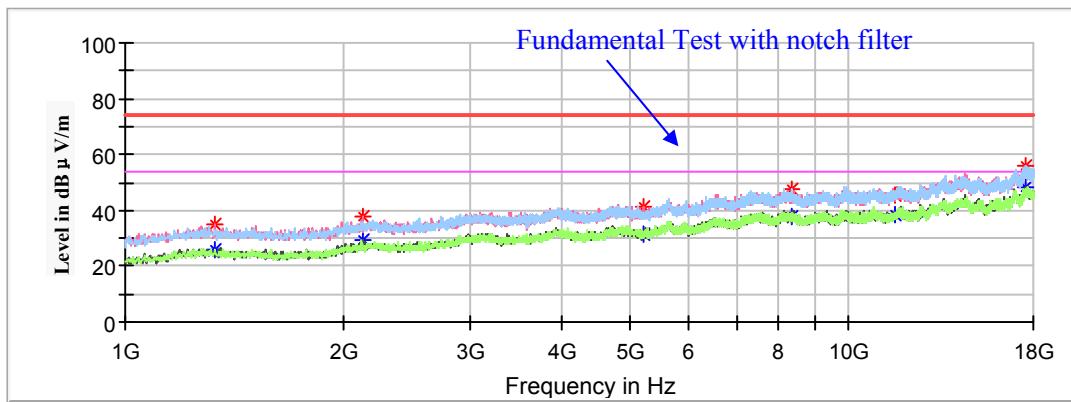
1. This test was performed with the 5725-5850MHz band reject filter.
2. Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
Corrected Amplitude = Corrected Factor + Reading
Margin = Limit - Corrected. Amplitude

Low Channel: 5745MHz

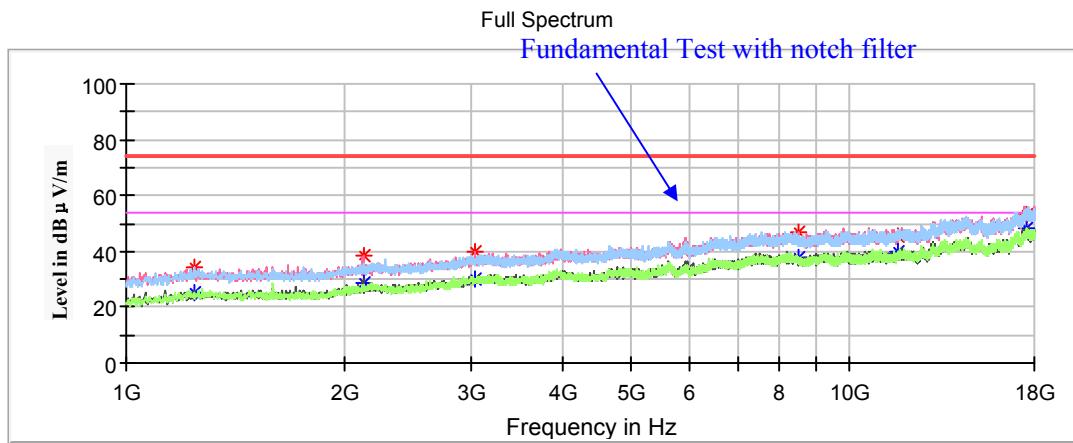
Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1064.600000	34.80	---	150.0	H	335.0	-18.7	74.00	39.20
1064.600000	---	23.57	150.0	H	335.0	-18.7	54.00	30.43
2127.100000	38.26	---	150.0	V	282.0	-13.9	68.20	29.94
4651.600000	---	32.61	150.0	H	20.0	-5.9	54.00	21.39
4651.600000	41.24	---	150.0	H	20.0	-5.9	74.00	32.76
6479.100000	45.61	---	150.0	H	338.0	-1.3	68.20	22.59
11490.000000	43.46	---	150.0	V	102.0	2.8	74.00	30.54
11490.000000	---	37.64	150.0	V	102.0	2.8	54.00	16.36
17680.400000	54.87	---	150.0	H	335.0	8.9	68.20	13.33

Middle Channel: 5785MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1331.500000	---	26.17	150.0	H	135.0	-17.3	54.00	27.83
1331.500000	34.86	---	150.0	H	135.0	-17.3	74.00	39.14
2128.800000	37.54	---	150.0	V	283.0	-13.9	68.20	30.66
5204.100000	41.46	---	150.0	V	169.0	-4.7	68.20	26.74
8359.300000	---	37.86	150.0	H	129.0	1.5	54.00	16.14
8359.300000	47.74	---	150.0	H	129.0	1.5	74.00	26.26
11570.000000	45.75	---	150.0	V	271.0	2.9	74.00	28.25
11570.000000	---	38.80	150.0	V	271.0	2.9	54.00	15.20
17588.600000	55.97	---	150.0	V	0.0	8.9	68.20	12.23

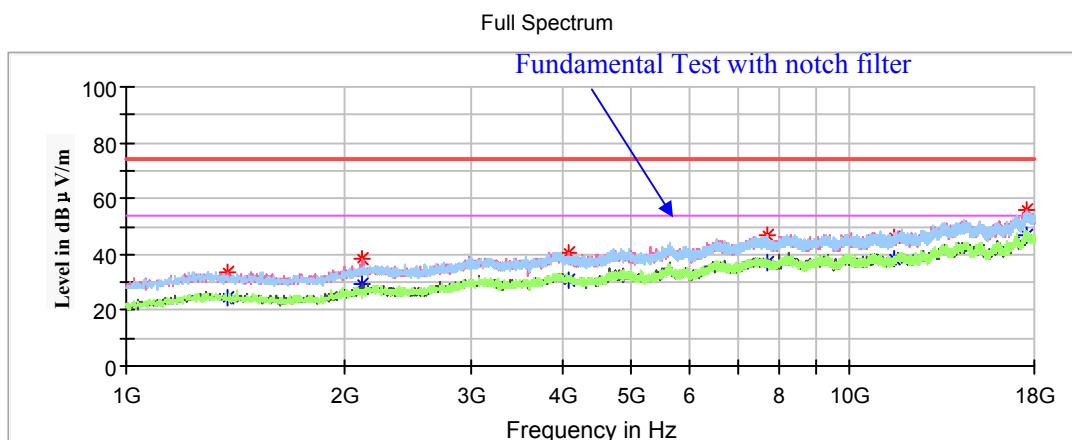
High Channel: 5825MHz

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1241.400000	34.46	---	200.0	H	257.0	-17.8	68.20	33.74
2125.400000	38.27	---	150.0	V	76.0	-14.0	68.20	29.93
3034.900000	39.74	---	150.0	V	250.0	-10.0	68.20	28.46
8495.300000	---	37.79	150.0	V	49.0	1.3	54.00	16.21
8495.300000	46.62	---	150.0	V	49.0	1.3	74.00	27.38
11650.000000	---	40.01	200.0	H	297.0	3.1	54.00	13.99
11650.000000	45.71	---	200.0	H	297.0	3.1	74.00	28.29
17581.800000	52.84	---	200.0	H	270.0	8.9	68.20	15.36

802.11n-HT20 Mode:(Pre-scan with X,Y and Z axes of orientation, the worst case **Z-axis of orientation** was recorded)

Note:

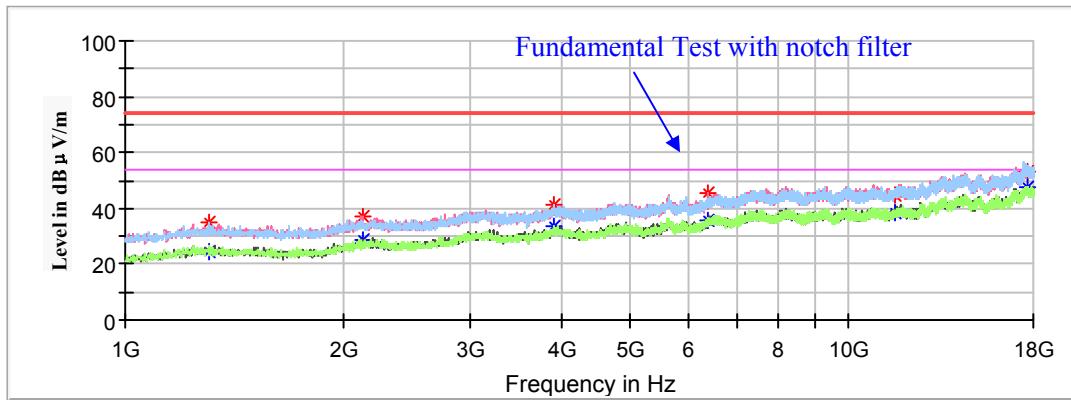
1. This test was performed with the 5725-5850MHz band reject filter.
2. Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
Corrected Amplitude = Corrected Factor + Reading
Margin = Limit - Corrected. Amplitude

Low Channel: 5745MHz

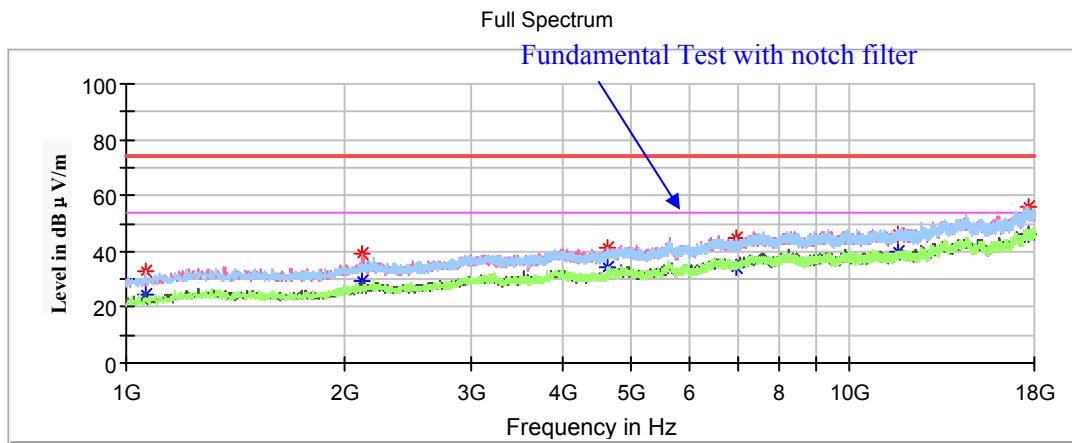
Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1384.200000	---	24.63	150.0	V	245.0	-17.0	54.00	29.37
1384.200000	33.91	---	150.0	V	245.0	-17.0	74.00	40.09
2123.700000	38.51	---	150.0	V	77.0	-14.0	68.20	29.69
4083.800000	40.48	---	150.0	V	122.0	-6.9	74.00	33.52
4083.800000	---	30.84	150.0	V	122.0	-6.9	54.00	23.16
7706.500000	---	37.21	150.0	H	270.0	1.4	54.00	16.79
7706.500000	46.67	---	150.0	H	270.0	1.4	74.00	27.33
11490.000000	45.97	---	150.0	H	297.0	2.8	74.00	28.03
11490.000000	---	38.76	150.0	H	297.0	2.8	54.00	15.24
17590.300000	56.25	---	150.0	H	310.0	8.9	68.20	11.95

Middle Channel: 5785MHz

Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
	MaxPeak (dBµV/m)	Average (dBµV/m)	Height (cm)	Polar (H/V)				
1302.600000	35.12	---	150.0	H	76.0	-17.4	74.00	38.88
1302.600000	---	24.51	150.0	H	76.0	-17.4	54.00	29.49
2130.500000	37.28	---	150.0	V	244.0	-13.9	68.20	30.92
3907.000000	---	33.65	150.0	H	323.0	-7.3	54.00	20.35
3907.000000	41.07	---	150.0	H	323.0	-7.3	74.00	32.93
6389.000000	45.46	---	150.0	H	232.0	-1.6	68.20	22.74
11570.000000	44.85	---	150.0	V	283.0	2.9	74.00	29.15
11570.000000	---	38.66	150.0	V	283.0	2.9	54.00	15.34
17677.000000	53.19	---	150.0	H	345.0	8.9	68.20	15.01

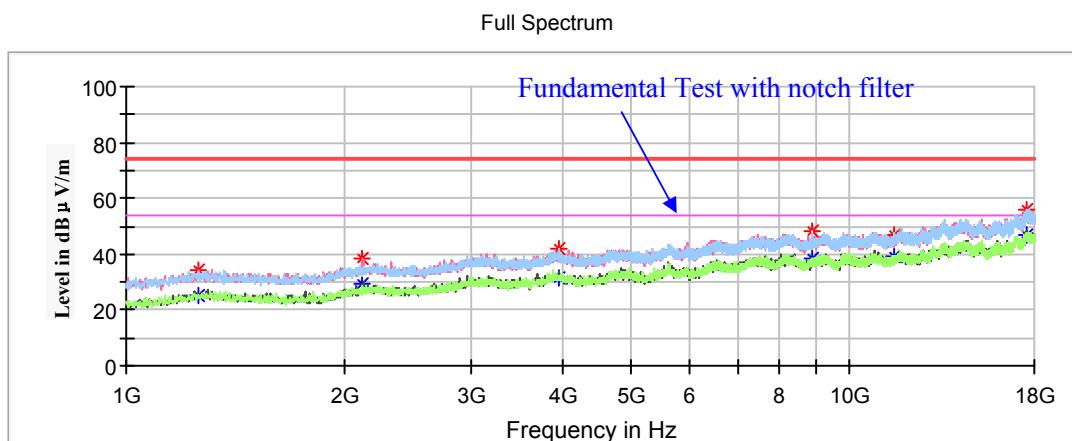
High Channel: 5825MHz

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1064.600000	---	24.27	200.0	V	239.0	-18.7	54.00	29.73
1064.600000	32.84	---	200.0	V	239.0	-18.7	74.00	41.16
2123.700000	39.37	---	150.0	V	263.0	-14.0	68.20	28.83
4632.900000	---	34.12	200.0	H	252.0	-5.9	54.00	19.88
4632.900000	41.57	---	200.0	H	252.0	-5.9	74.00	32.43
6960.200000	44.61	---	150.0	H	353.0	-0.1	68.20	23.59
11650.000000	---	39.69	150.0	H	149.0	3.1	54.00	14.31
11650.000000	45.97	---	150.0	H	149.0	3.1	74.00	28.03
17680.400000	55.89	---	200.0	H	73.0	8.9	68.20	12.31

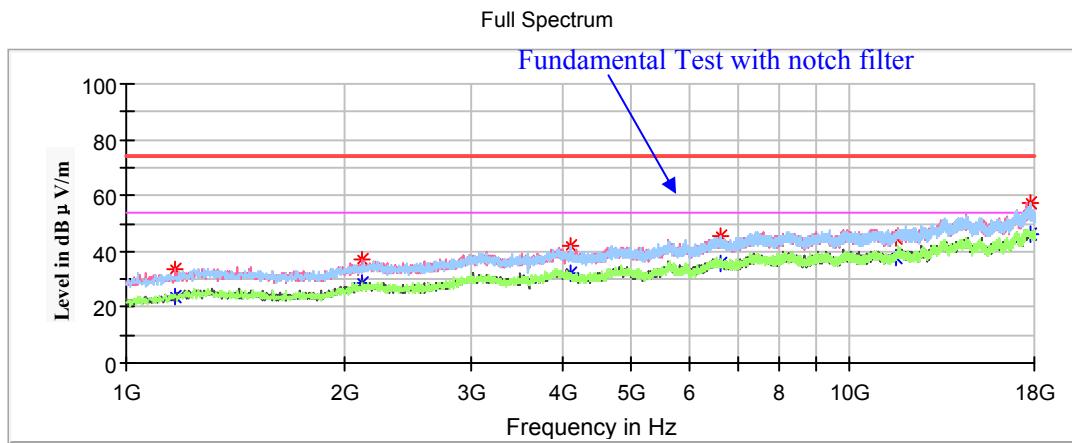
802.11ac40 Mode:(Pre-scan in the X, Y and Z axes of orientation, the worst case **Z-axis of orientation** was recorded.)

Note:

1. This test was performed with the 5725-5850MHz band reject filter.
2. Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
Corrected Amplitude = Corrected Factor + Reading
Margin = Limit - Corrected. Amplitude

Low Channel: 5755MHz

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1260.100000	34.06	---	150.0	V	359.0	-17.7	68.20	34.14
2123.700000	38.48	---	150.0	V	310.0	-14.0	68.20	29.72
3952.900000	41.68	---	150.0	H	345.0	-7.2	74.00	32.32
3952.900000	---	31.49	150.0	H	345.0	-7.2	54.00	22.51
8891.400000	47.98	---	150.0	H	77.0	1.8	68.20	20.22
11510.000000	46.95	---	150.0	V	310.0	2.8	74.00	27.05
11510.000000	---	38.97	150.0	V	310.0	2.8	54.00	15.03
17590.300000	56.17	---	150.0	V	284.0	8.9	68.20	12.03

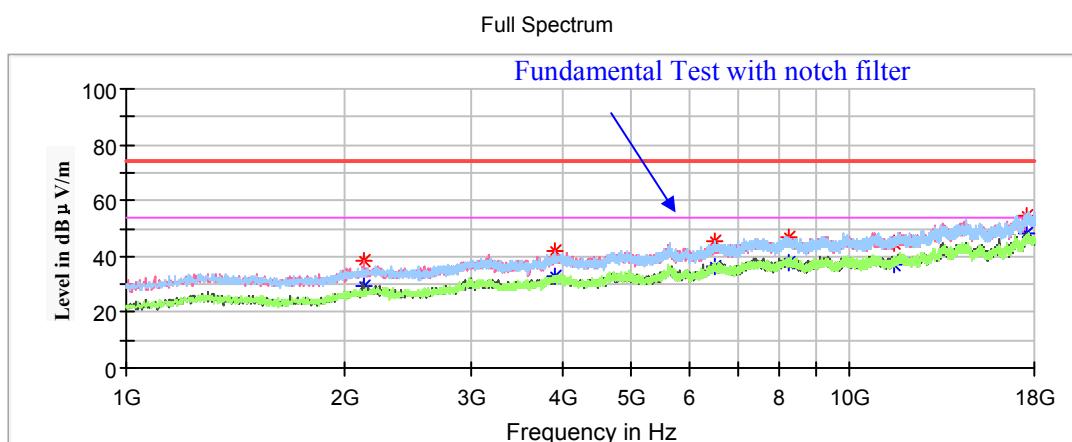
High Channel: 5795MHz

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
1166.600000	---	23.87	150.0	H	357.0	-18.2	54.00	30.13
1166.600000	33.63	---	150.0	H	357.0	-18.2	74.00	40.37
2123.700000	37.06	---	150.0	H	230.0	-14.0	68.20	31.14
4107.600000	---	31.85	150.0	V	170.0	-6.8	54.00	22.15
4107.600000	41.75	---	150.0	V	170.0	-6.8	74.00	32.25
6613.400000	45.69	---	150.0	H	195.0	-0.9	68.20	22.51
11590.000000	44.77	---	150.0	H	350.0	3.0	74.00	29.23
11590.000000	---	37.49	150.0	H	350.0	3.0	54.00	16.51
17743.300000	---	45.84	150.0	H	170.0	8.8	54.00	8.16
17743.300000	57.07	---	150.0	H	170.0	8.8	74.00	16.93

802.11n-HT40 Mode:(Pre-scan with X,Y and Z axes of orientation, the worst case **Z-axis of orientation** was recorded)

Note:

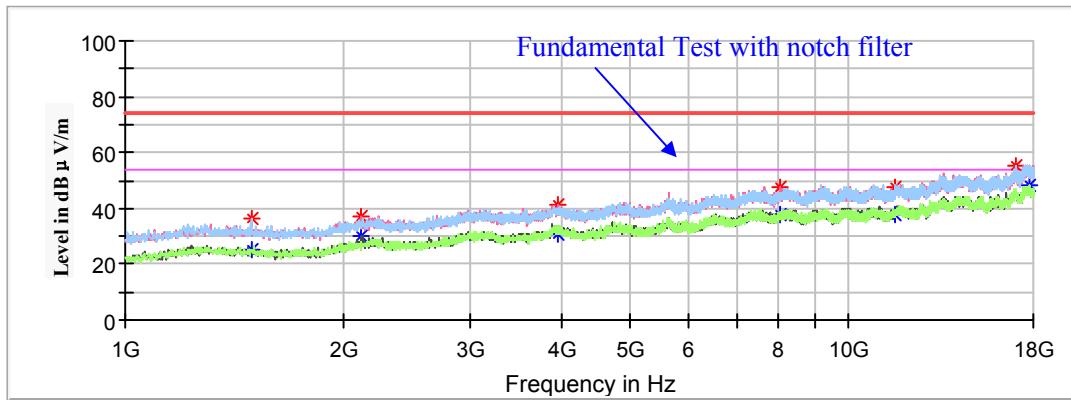
1. This test was performed with the 5725-5850MHz band reject filter.
2. Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
Corrected Amplitude = Corrected Factor + Reading
Margin = Limit - Corrected. Amplitude

Low Channel: 5755MHz

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
2128.800000	38.39	---	150.0	V	269.0	-13.9	68.20	29.81
3922.300000	41.61	---	150.0	V	335.0	-7.3	74.00	32.39
3922.300000	---	32.78	150.0	V	335.0	-7.3	54.00	21.22
6518.200000	45.30	---	150.0	H	134.0	-1.1	68.20	22.90
8253.900000	---	37.46	150.0	V	345.0	1.6	54.00	16.54
8253.900000	47.15	---	150.0	V	345.0	1.6	74.00	26.85
11510.000000	44.86	---	150.0	H	238.0	2.8	74.00	29.14
11510.000000	---	36.84	150.0	H	238.0	2.8	54.00	17.16
17527.400000	54.32	---	150.0	V	224.0	8.9	68.20	13.88

High Channel: 5795MHz

Full Spectrum

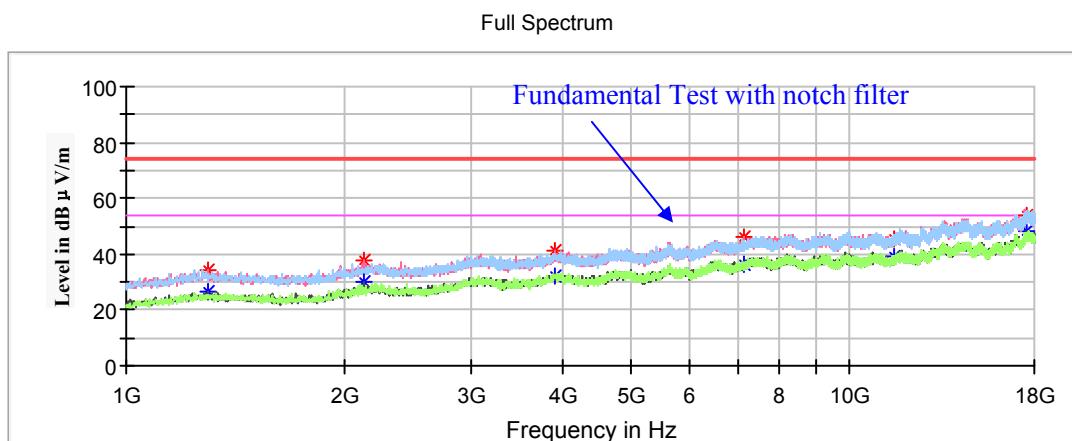


Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dB $\mu\text{V}/\text{m}$)	Margin (dB)
	MaxPeak (dB $\mu\text{V}/\text{m}$)	Average (dB $\mu\text{V}/\text{m}$)	Height (cm)	Polar (H/V)				
1493.000000	---	24.87	150.0	H	0.0	-16.4	54.00	29.13
1493.000000	36.43	---	150.0	H	0.0	-16.4	74.00	37.57
2123.700000	37.34	---	150.0	V	243.0	-14.0	68.20	30.86
3966.500000	---	31.11	150.0	H	122.0	-7.1	54.00	22.89
3966.500000	41.14	---	150.0	H	122.0	-7.1	74.00	32.86
8056.700000	---	37.50	150.0	V	263.0	1.8	54.00	16.50
8056.700000	47.54	---	150.0	V	263.0	1.8	74.00	26.46
11590.000000	---	37.62	150.0	H	289.0	3.0	54.00	16.38
11590.000000	47.36	---	150.0	H	289.0	3.0	74.00	26.64
17790.900000	55.51	---	150.0	H	276.0	8.8	74.00	18.49
17790.900000	---	48.06	150.0	H	276.0	8.8	54.00	5.94

802.11ac80 Mode:(Pre-scan in the X, Y and Z axes of orientation, the worst case **Z-axis of orientation** was recorded.)

Note:

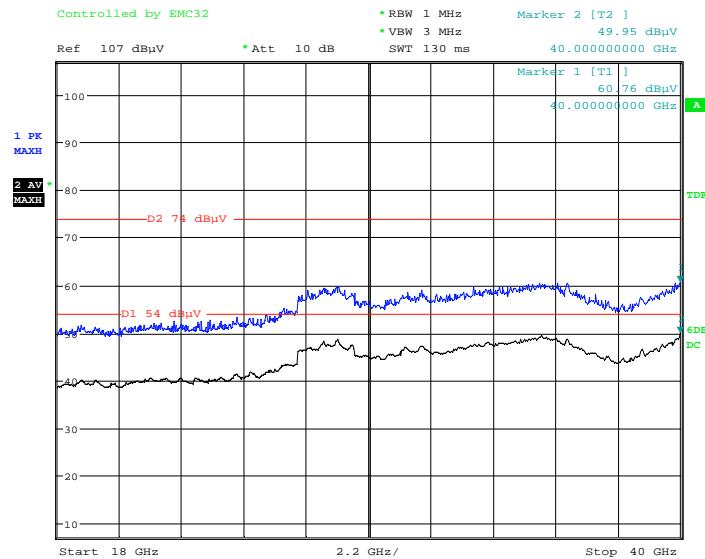
1. This test was performed with the 5725-5850MHz band reject filter.
2. Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
Corrected Amplitude = Corrected Factor + Reading
Margin = Limit - Corrected. Amplitude

Low Channel: 5775MHz

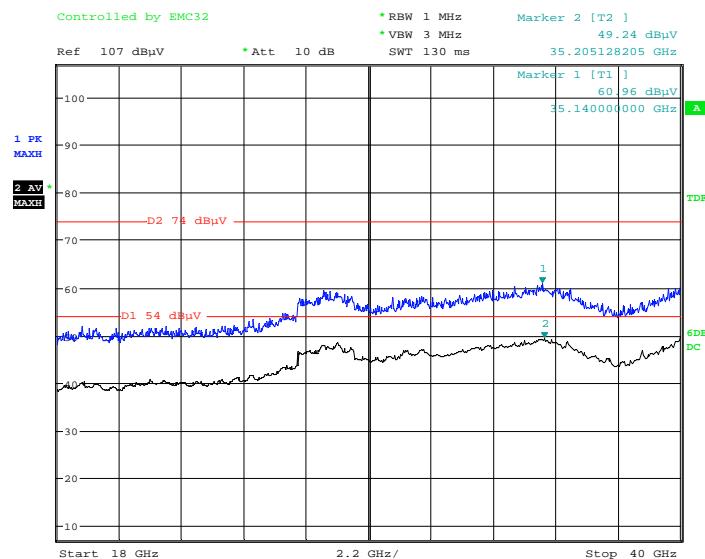
Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1297.500000	34.19	---	150.0	V	262.0	-17.5	68.20	34.01
2130.500000	37.99	---	150.0	V	76.0	-13.9	68.20	30.21
3920.600000	---	32.45	150.0	V	211.0	-7.3	54.00	21.55
3920.600000	41.17	---	150.0	V	211.0	-7.3	74.00	32.83
7133.600000	46.03	---	150.0	V	103.0	0.2	68.20	22.17
11550.000000	45.79	---	150.0	H	72.0	2.9	74.00	28.21
11550.000000	---	39.43	150.0	H	72.0	2.9	54.00	14.57
17573.300000	53.51	---	150.0	V	288.0	8.9	68.20	14.69

18GHz-40GHz(5150-5250MHz Band):

Pre-scan with 802.11a, 802.11ac20, 802.11n-HT20, 802.11ac40, 802.11n-HT40 and 802.11 ac80 modes of operation in the X,Y and Z axes of orientation, the worst case 802.11a mode in channel 5240 in Z-axis of orientation was recorded.

Horizontal

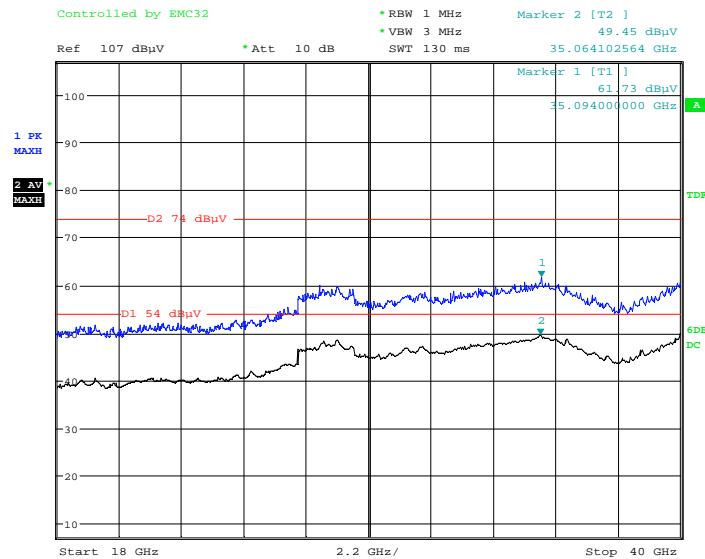
Date: 22.OCT.2020 22:29:05

Vertical

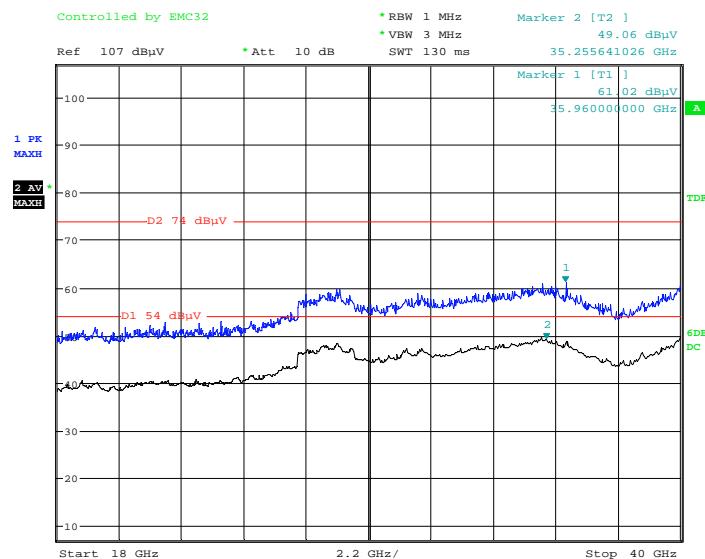
Date: 22.OCT.2020 22:39:30

18GHz-40GHz(5725-5850MHz Band):

Pre-scan with 802.11a, 802.11ac20, 802.11n-HT20, 802.11ac40, 802.11n-HT40 and 802.11 ac80 modes of operation in the X,Y and Z axes of orientation, the worst case 802.11a mode in channel 5825 in Z-axis of orientation was recorded.

Horizontal

Date: 22.OCT.2020 22:58:44

Vertical

Date: 22.OCT.2020 22:10:25

Restricted Bands Emissions Test (5150-5250MHz Band):

Note:

1. Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
2. Corrected Amplitude = Corrected Factor + Reading
3. Margin = Limit - Corrected. Amplitude

802.11a Mode: (Pre-scan in the X, Y and Z axes of orientation, the worst case in Z-axis of orientation was recorded)

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
Low Channel: 5180MHz								
5150.00	54.59	---	150.0	V	287.0	5.2	74.00	19.41
5150.00	---	50.43	150.0	V	287.0	5.2	54.00	3.57
High Channel: 5240MHz								
5350.00	54.80	---	200.0	V	2.0	5.7	74.00	19.20
5350.00	---	51.26	200.0	V	2.0	5.7	54.00	2.74

802.11ac20 Mode : (Pre-scan in the X, Y and Z axes of orientation, the worst case in Z-axis of orientation was recorded)

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
Low Channel: 5180MHz								
5150.00	55.80	---	150.0	V	153.0	5.2	74.00	18.20
5150.00	---	50.38	150.0	V	153.0	5.2	54.00	3.62
High Channel: 5240MHz								
5350.00	55.98	---	200.0	V	187.0	5.7	74.00	18.02
5350.00	---	51.27	200.0	V	187.0	5.7	54.00	2.73

802.11n-HT20 Mode: (Pre-scan in the X, Y and Z axes of orientation, the worst case in Z-axis of orientation was recorded)

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
Low Channel: 5180MHz								
5150.00	54.11	---	150.0	V	0.0	5.2	74.00	19.89
5150.00	---	50.88	150.0	V	0.0	5.2	54.00	3.12
High Channel: 5240MHz								
5350.00	53.97	---	150.0	V	0.0	5.7	74.00	20.03
5350.00	---	50.68	150.0	V	0.0	5.7	54.00	3.32

802.11ac40 Mode : (Pre-scan in the X, Y and Z axes of orientation, the worst case in Z-axis of orientation was recorded)

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
Low Channel: 5190MHz								
5150.00	56.23	---	150.0	V	190.0	5.2	74.00	17.77
5150.00	---	52.60	150.0	V	190.0	5.2	54.00	1.40
High Channel: 5230MHz								
5350.00	53.42	---	150.0	V	10.0	5.7	74.00	20.58
5350.00	---	50.45	150.0	V	10.0	5.7	54.00	3.55

802.11n-HT40 Mode : (Pre-scan in the X, Y and Z axes of orientation, the worst case in Z-axis of orientation was recorded)

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
Low Channel: 5190MHz								
5150.00	55.69	---	150.0	V	142.0	5.2	74.00	18.31
5150.00	---	50.39	150.0	V	142.0	5.2	54.00	3.61
High Channel: 5230MHz								
5350.00	54.20	---	150.0	V	357.0	5.7	74.00	19.80
5350.00	---	50.10	150.0	V	357.0	5.7	54.00	3.90

802.11ac80 Mode : (Pre-scan in the X, Y and Z axes of orientation, the worst case in Z-axis of orientation was recorded)

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
Low Channel: 5210MHz								
5150.00	55.71	---	150.0	V	140.0	5.2	74.00	18.29
5150.00	---	51.80	150.0	V	140.0	5.2	54.00	2.20
5350.00	53.60	---	150.0	V	301.0	5.7	74.00	20.40
5350.00	---	50.46	150.0	V	301.0	5.7	54.00	3.54

Restricted Bands Emissions Test (5725-5850MHz Band):

Note:

1. Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
2. Corrected Amplitude = Corrected Factor + Reading
3. Margin = Limit - Corrected. Amplitude

802.11a Mode: (Pre-scan in the X, Y and Z axes of orientation, the worst case in Z-axis of orientation was recorded)

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
Low Channel: 5745MHz								
5650.00	54.66	---	150.0	H	124.0	6.4	67.80	13.14
5700.00	56.36	---	200.0	H	0.0	6.5	105.21	48.85
5720.00	56.25	---	150.0	H	124.0	6.5	110.80	54.55
5725.00	57.36	---	200.0	H	175.0	6.5	122.20	64.84
High Channel: 5825MHz								
5850.00	53.73	---	150.0	V	39.0	6.7	122.20	68.47
5855.00	55.15	---	200.0	H	0.0	6.7	110.80	55.65
5875.00	55.57	---	150.0	V	181.0	6.8	105.20	49.63
5925.00	54.79	---	150.0	H	289.0	6.9	67.80	13.01

802.11ac20 Mode: (Pre-scan in the X, Y and Z axes of orientation, the worst case in Z-axis of orientation was recorded)

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
Low Channel: 5745MHz								
5650.00	54.01	---	150.0	V	70.0	6.4	67.80	13.79
5700.00	53.71	---	150.0	V	23.0	6.5	105.20	51.49
5720.00	54.68	---	200.0	H	351.0	6.5	110.80	56.12
5725.00	59.46	---	150.0	H	0.0	6.5	122.20	62.74
High Channel: 5825MHz								
5850.00	54.14	---	200.0	H	0.0	6.7	122.20	68.06
5855.00	55.06	---	150.0	V	303.0	6.7	110.80	55.74
5875.00	55.54	---	200.0	H	321.0	6.8	105.20	49.66
5925.00	53.57	---	150.0	H	2.0	6.9	67.80	14.23

802.11n-HT20 Mode: (Pre-scan in the X, Y and Z axes of orientation, the worst case in Z-axis of orientation was recorded)

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
Low Channel: 5745MHz								
5650.00	54.52	---	150.0	H	11.0	6.4	67.80	13.28
5700.00	53.46	---	200.0	H	292.0	6.5	105.20	51.74
5720.00	55.26	---	150.0	V	213.0	6.5	110.80	55.54
5725.00	58.33	---	150.0	H	11.0	6.5	122.20	63.87
High Channel: 5825MHz								
5850.00	55.21	---	200.0	H	238.0	6.7	122.20	66.99
5855.00	53.53	---	150.0	V	3.0	6.7	110.80	57.27
5875.00	55.49	---	150.0	H	124.0	6.8	105.20	49.71
5925.00	53.58	---	200.0	H	254.0	6.9	67.80	14.22

802.11ac40 Mode: (Pre-scan in the X, Y and Z axes of orientation, the worst case in Z-axis of orientation was recorded)

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
Low Channel: 5755MHz								
5650.00	53.15	---	150.0	H	176.0	6.4	67.80	14.65
5700.00	54.38	---	200.0	H	74.0	6.5	105.20	50.82
5720.00	64.46	---	150.0	H	159.0	6.5	110.80	46.34
5725.00	64.66	---	200.0	H	159.0	6.5	122.20	57.54
High Channel: 5795MHz								
5850.00	55.06	---	150.0	V	337.0	6.7	122.20	67.14
5855.00	53.60	---	150.0	V	186.0	6.7	110.80	57.20
5875.00	55.56	---	150.0	H	125.0	6.8	105.20	49.64
5925.00	54.32	---	200.0	H	272.0	6.9	67.80	13.48

802.11n-HT40 Mode: (Pre-scan in the X, Y and Z axes of orientation, the worst case in Z-axis of orientation was recorded)

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
Low Channel: 5755MHz								
5650.00	54.71	---	200.0	H	274.0	6.4	67.80	13.09
5700.00	55.60	---	150.0	V	149.0	6.5	105.20	49.60
5720.00	60.66	---	150.0	V	101.0	6.5	110.80	50.14
5725.00	64.86	---	150.0	V	337.0	6.5	122.20	57.34
High Channel: 5795MHz								
5850.00	54.63	---	150.0	H	336.0	6.7	122.20	67.57
5855.00	53.97	---	150.0	H	275.0	6.7	110.80	56.83
5875.00	54.71	---	200.0	H	306.0	6.8	105.20	50.49
5925.00	54.10	---	150.0	V	61.0	6.9	67.80	13.70

802.11ac80 Mode: (Pre-scan in the X, Y and Z axes of orientation, the worst case in Z-axis of orientation was recorded)

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Correct Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
Low Channel: 5775MHz								
5650.00	55.08	---	150.0	V	2.0	6.4	67.80	12.72
5700.00	57.30	---	200.0	H	122.0	6.5	105.20	47.90
5720.00	59.69	---	150.0	H	319.0	6.5	110.80	51.11
5725.00	59.45	---	200.0	H	157.0	6.5	122.20	62.75
5850.00	57.57	---	150.0	H	357.0	6.7	122.14	64.57
5855.00	58.13	---	150.0	V	10.0	6.7	110.79	52.67
5875.00	54.37	---	150.0	V	39.0	6.8	105.18	50.81
5925.00	53.84	---	200.0	H	334.0	6.9	67.80	13.96

FCC §15.407(a) &§15.407(e)—EMISSION 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

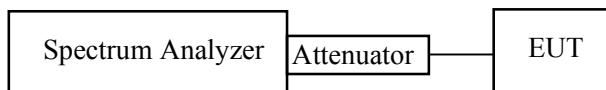
1. Emission Bandwidth (EBW)

- 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 5.725-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ 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:	24.8-26.3°C
Relative Humidity:	54-60%
ATM Pressure:	101.2-101.5 kPa

The testing was performed by Chris Wang from 2020-07-22 to 2020-07-24.

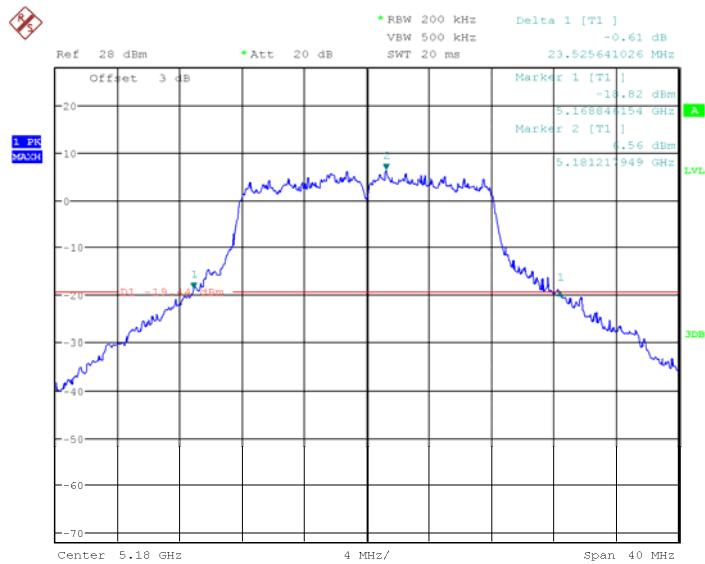
Test Result: Compliant

5150-5250 MHz:

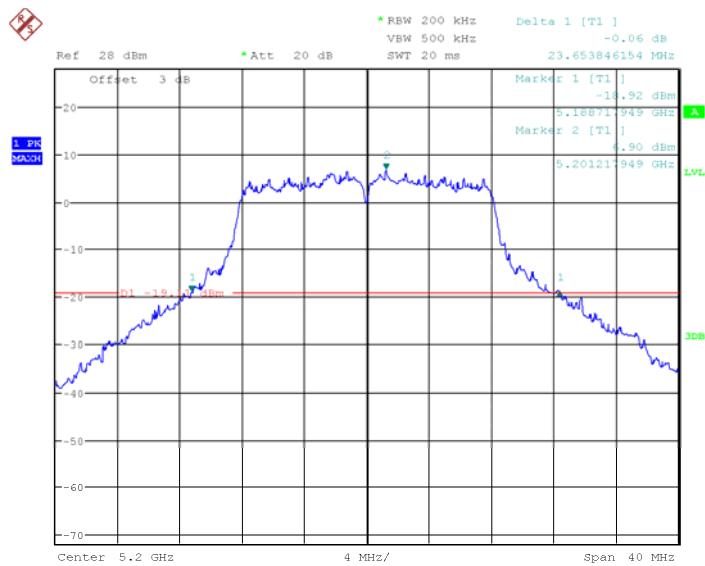
Test mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
802.11a	Low	5180	23.526	17.051
	Middle	5200	23.654	17.051
	High	5240	23.654	17.051
802.11ac20	Low	5180	24.103	18.141
	Middle	5200	24.103	18.141
	High	5240	24.167	18.077
802.11n-HT20	Low	5180	23.910	18.141
	Middle	5200	23.974	18.141
	High	5240	23.974	18.077
802.11ac40	Low	5190	42.308	36.410
	High	5230	42.179	36.538
802.11n-HT40	Low	5190	42.308	36.410
	High	5230	42.179	36.538
802.11ac80	Low	5210	94.103	75.897

5725-5850MHz:

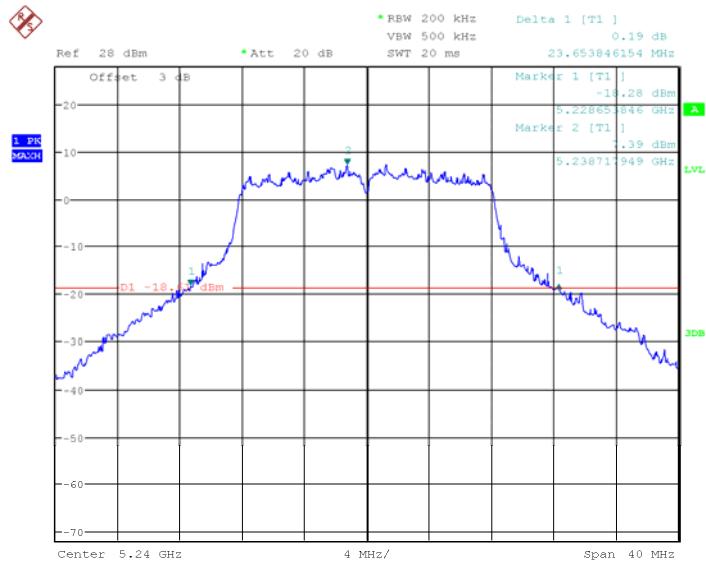
Test mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
802.11a	Low	5745	23.205	15.962	≥ 0.5
	Middle	5785	23.269	16.026	≥ 0.5
	High	5825	23.013	16.090	≥ 0.5
802.11ac20	Low	5745	24.423	17.179	≥ 0.5
	Middle	5785	23.974	16.859	≥ 0.5
	High	5825	23.526	16.859	≥ 0.5
802.11n-HT20	Low	5745	24.423	16.859	≥ 0.5
	Middle	5785	23.654	16.859	≥ 0.5
	High	5825	23.974	16.795	≥ 0.5
802.11ac40	Low	5755	42.179	36.154	≥ 0.5
	High	5795	42.179	36.026	≥ 0.5
802.11n-HT40	Low	5755	42.564	36.410	≥ 0.5
	High	5795	42.051	36.282	≥ 0.5
802.11ac80	Low	5775	84.103	75.897	≥ 0.5

5150-5250 MHz Band:**26 Bandwidth&99% Occupied Bandwidth****802.11a mode, 5180MHz**

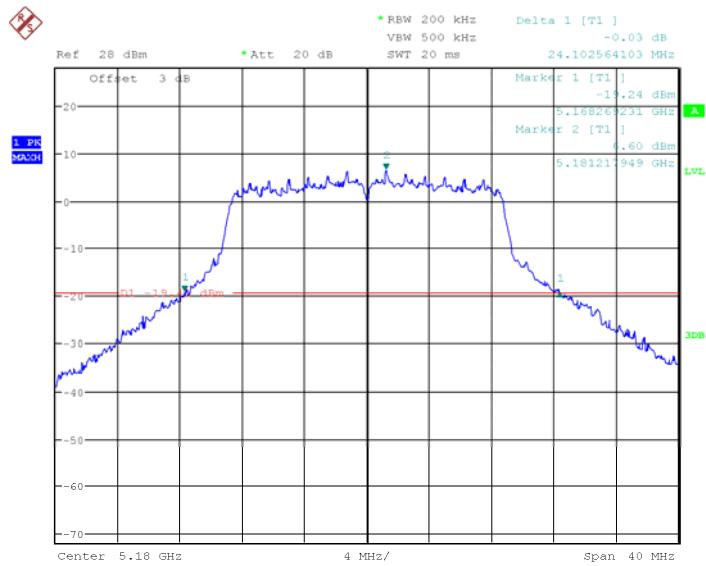
Date: 22.JUL.2020 22:05:25

802.11a mode, 5200MHz

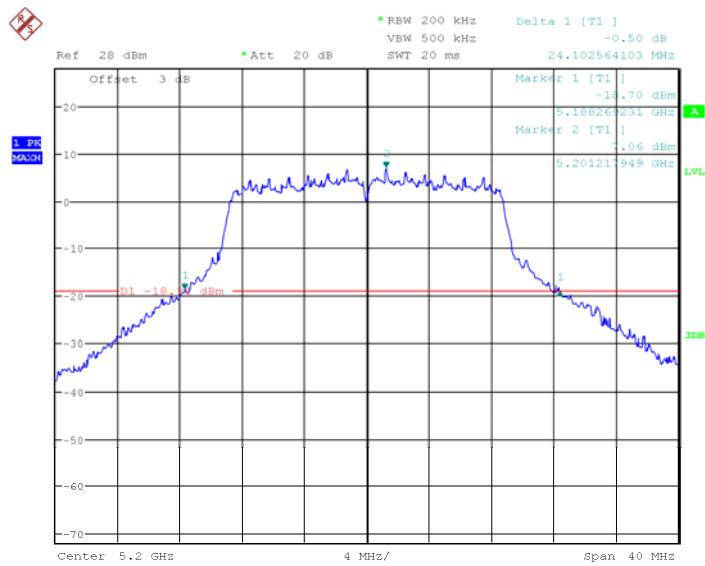
Date: 22.JUL.2020 22:09:01

802.11a mode, 5240MHz

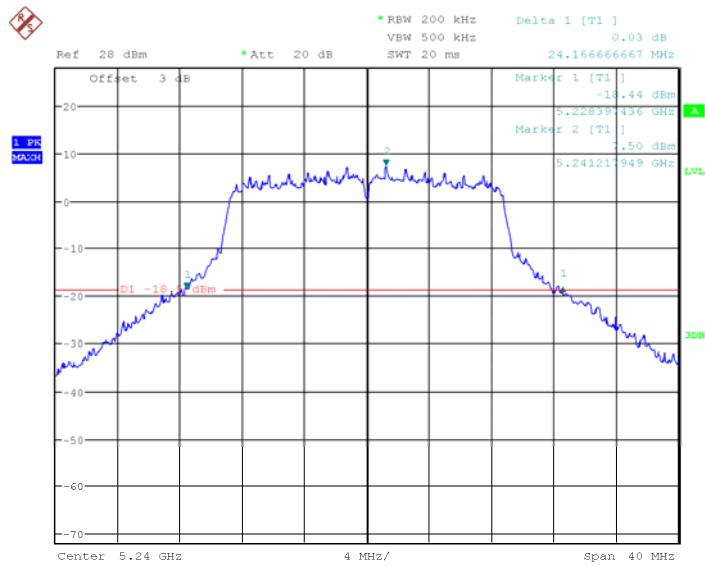
Date: 22.JUL.2020 22:12:45

802.11ac20 mode, 5180MHz

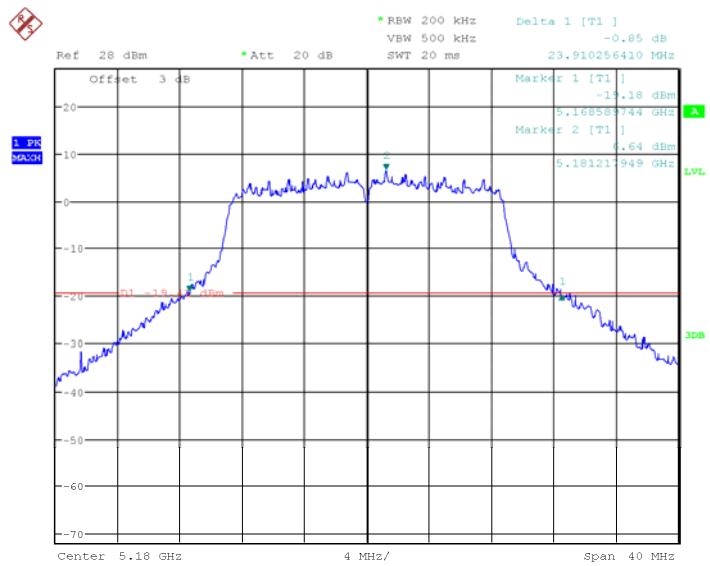
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802.11 ac20 mode, 5200MHz

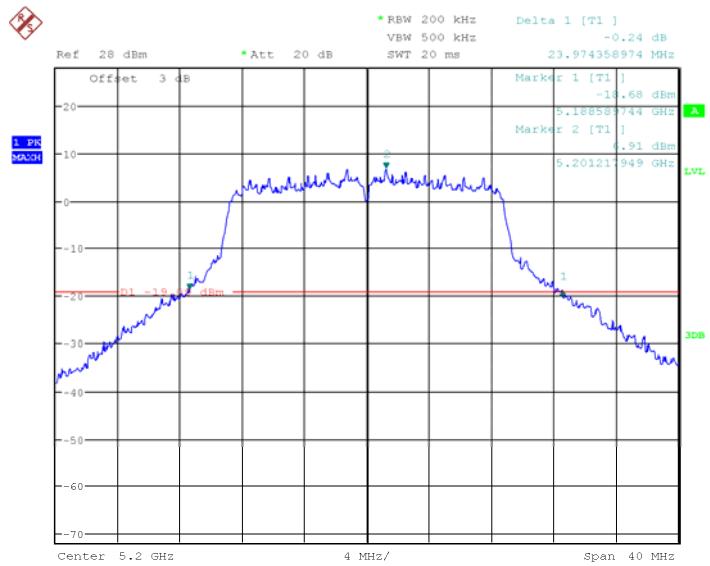
Date: 22.JUL.2020 22:27:23

802.11 ac20 mode, 5240MHz

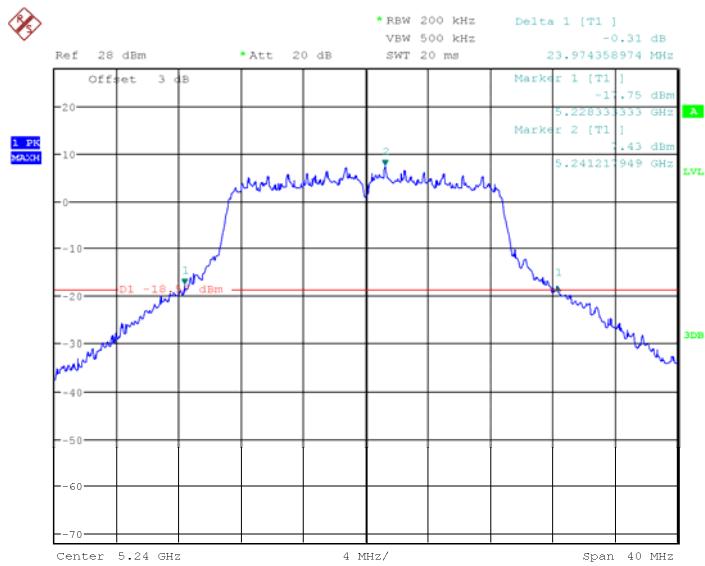
Date: 22.JUL.2020 22:30:38

802.11n-HT20 mode, 5180MHz

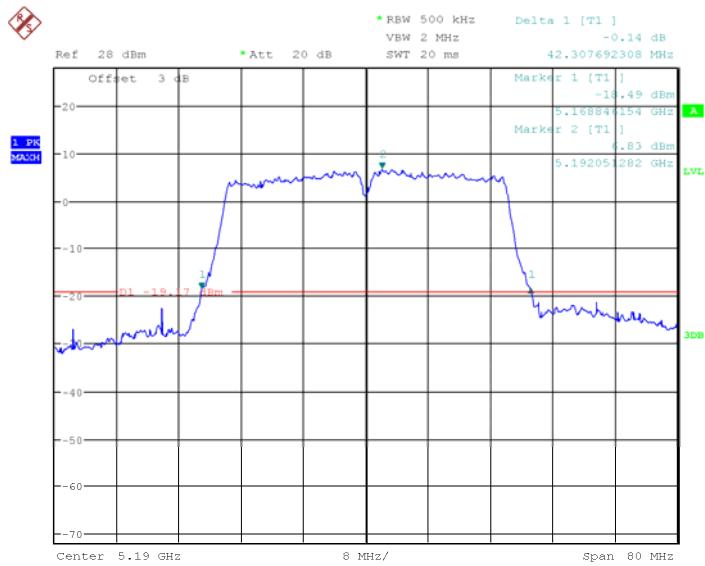
Date: 22.JUL.2020 22:16:02

802.11n-HT20 mode, 5200MHz

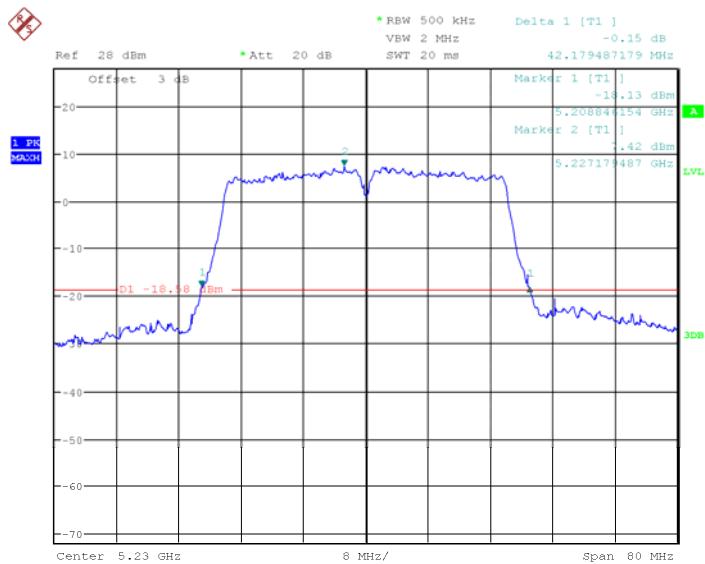
Date: 22.JUL.2020 22:18:37

802.11n-HT20 mode, 5240MHz

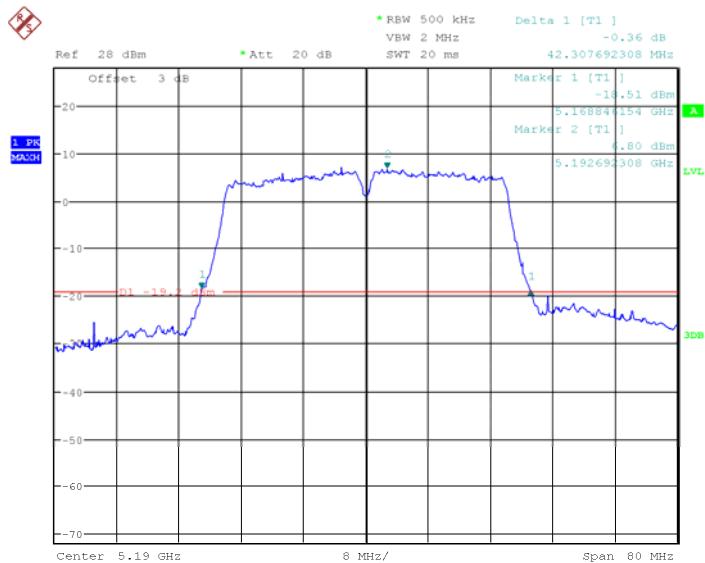
Date: 22.JUL.2020 22:21:00

802.11ac40 mode, 5190MHz

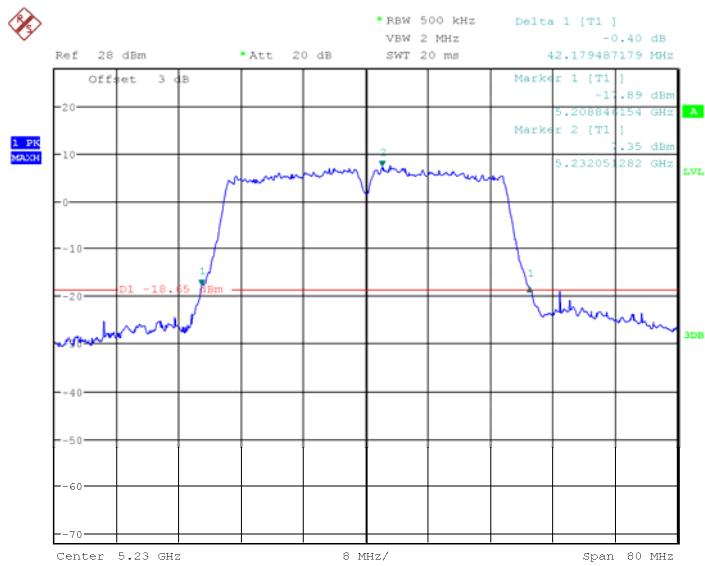
Date: 22.JUL.2020 22:42:50

802.11 ac40 mode, 5230MHz

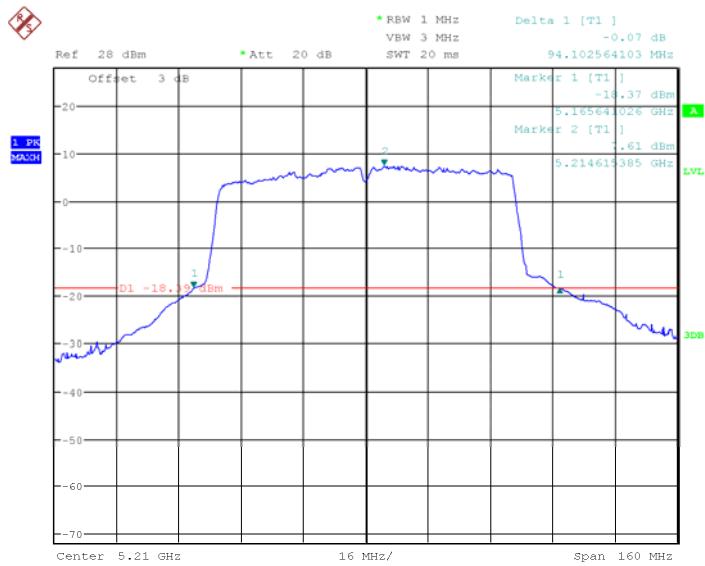
Date: 22.JUL.2020 22:45:22

802.11n-HT40 mode, 5190MHz

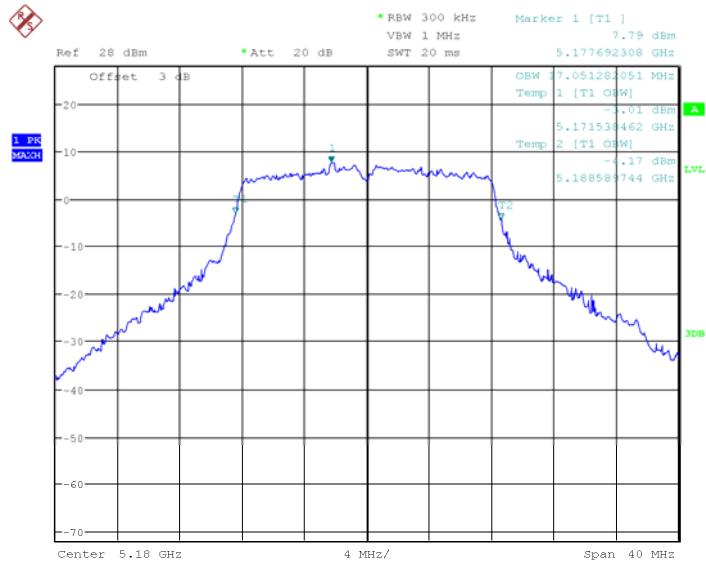
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802.11n-HT40 mode, 5230MHz

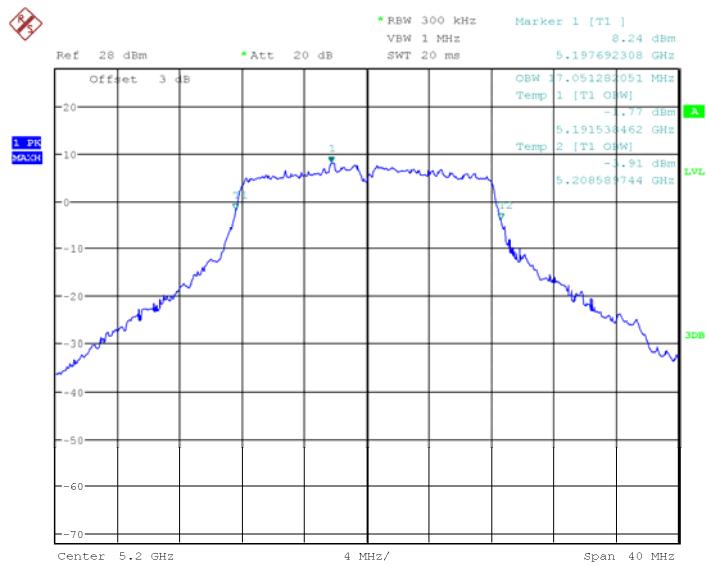
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802.11ac80 mode, 5210MHz

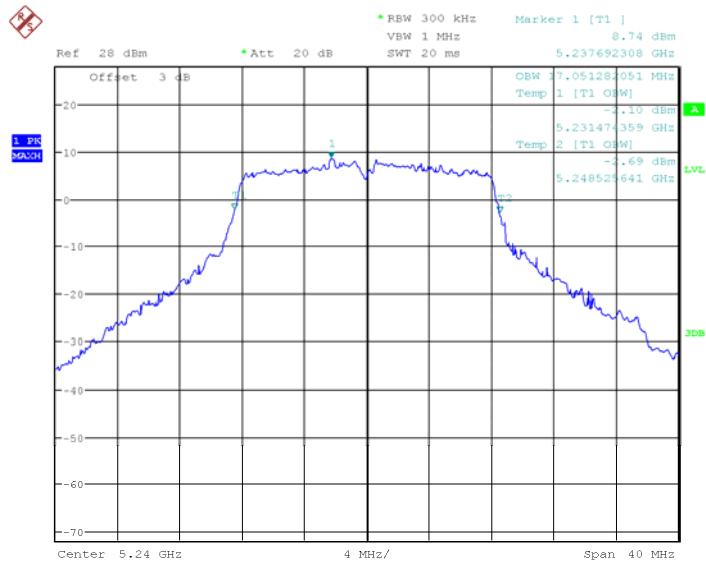
Date: 22.JUL.2020 22:53:37

99% Occupied Bandwidth**802.11a mode, 5180MHz**

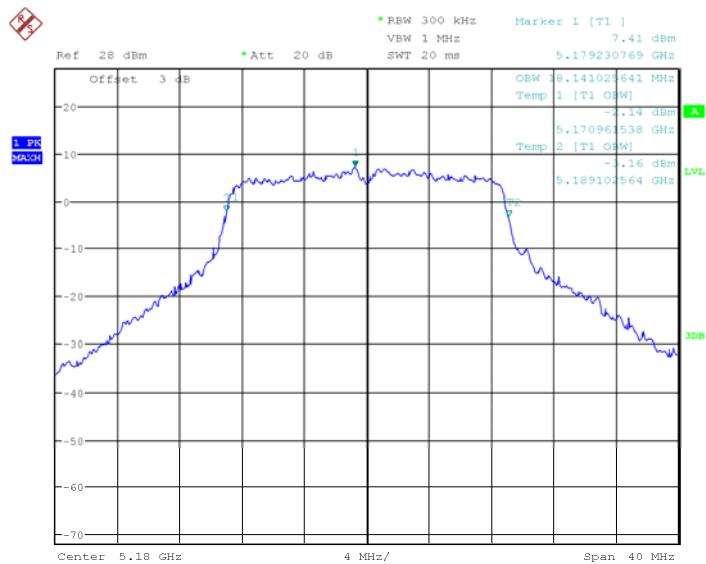
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802.11a mode, 5200MHz

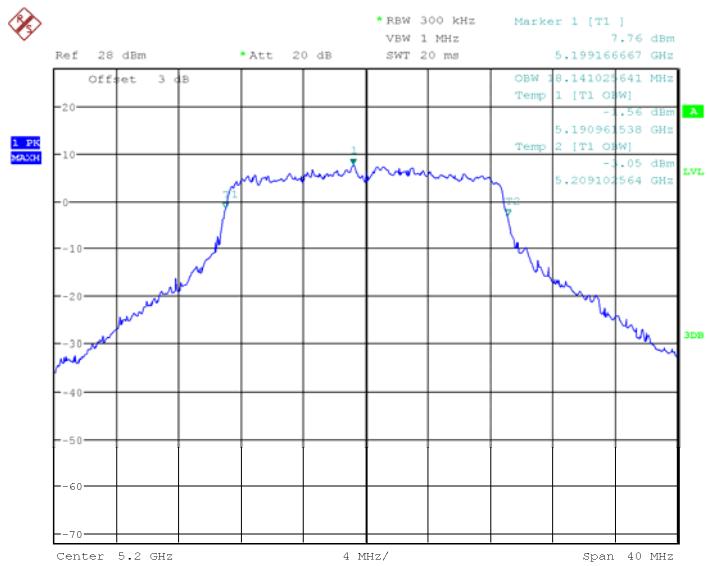
Date: 23.JUL.2020 00:21:28

802.11a mode, 5240MHz

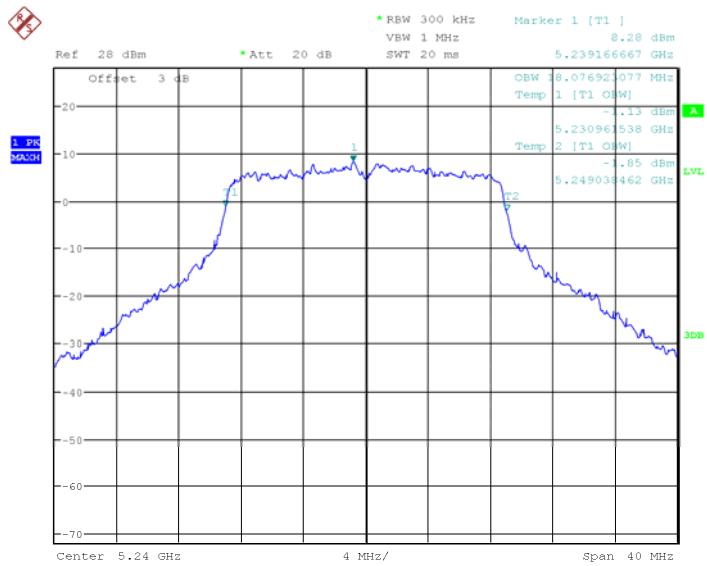
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802.11ac20 mode, 5180MHz

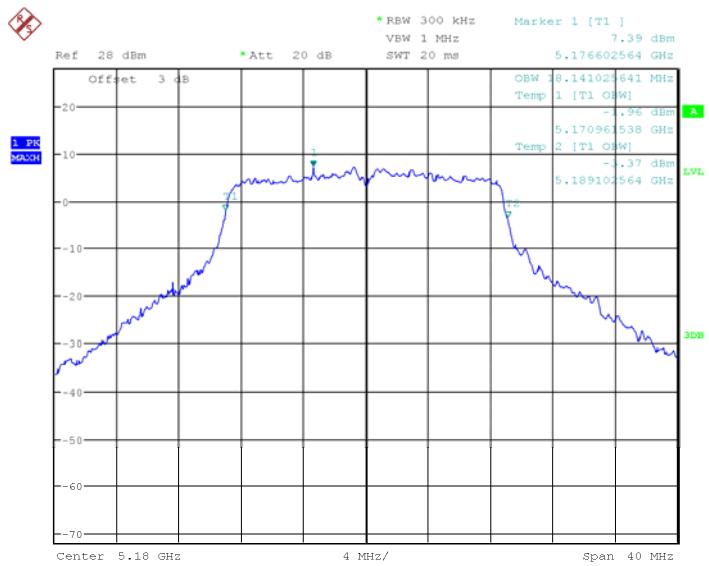
Date: 23.JUL.2020 00:31:44

802.11ac20 mode, 5200MHz

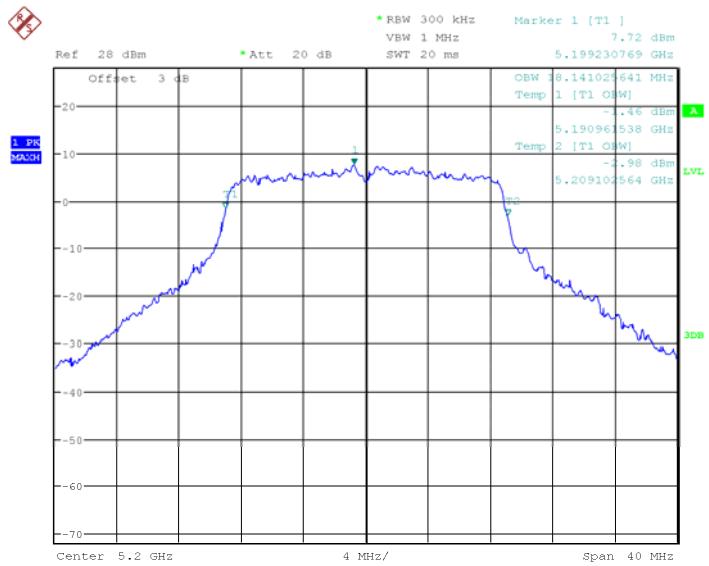
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802.11ac20 mode, 5240MHz

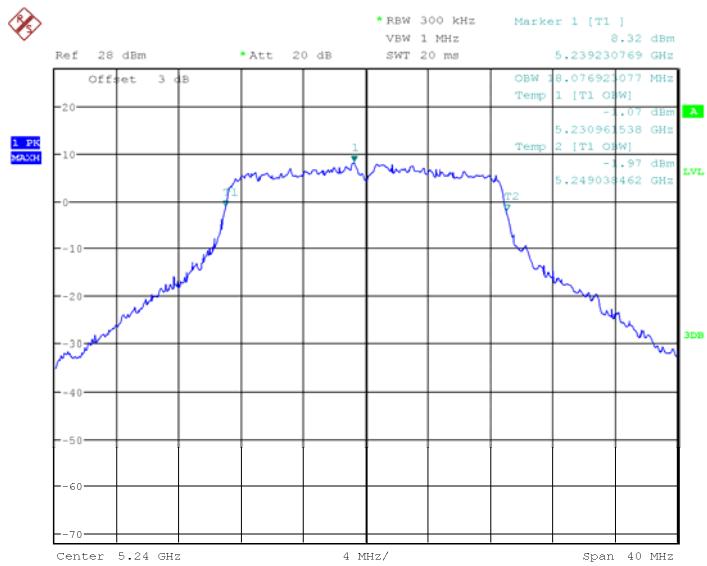
Date: 23.JUL.2020 00:34:23

802.11n-HT20 mode, 5180MHz

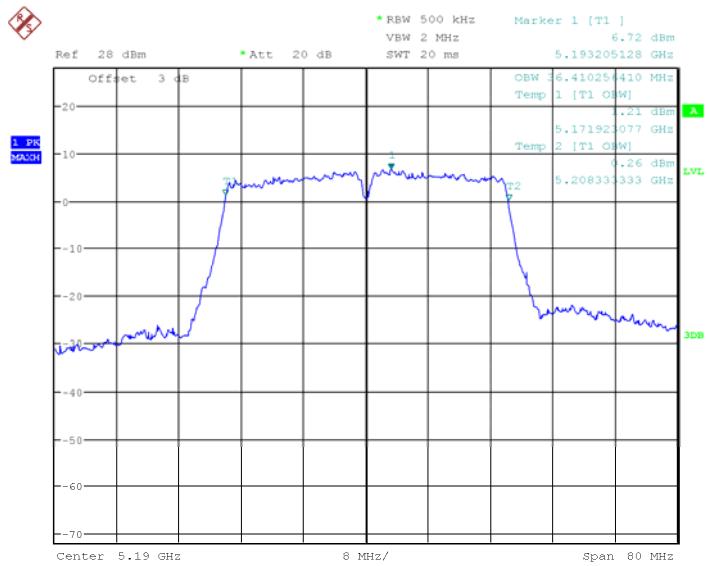
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802.11n-HT20 mode, 5200MHz

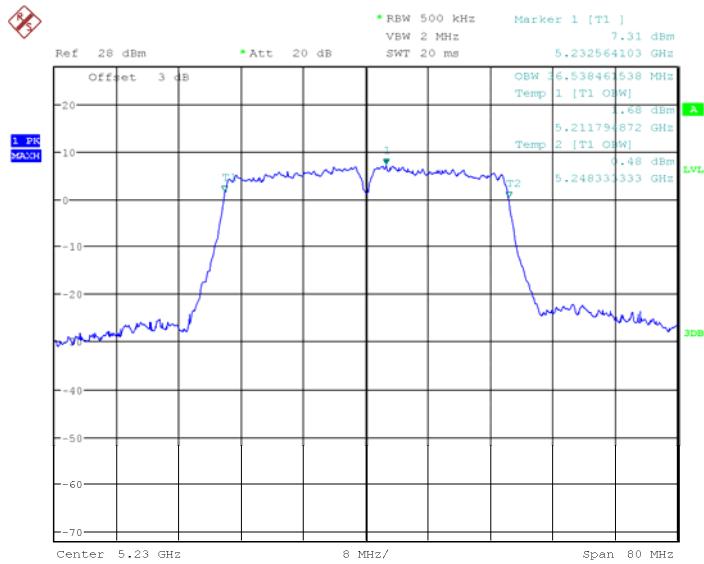
Date: 23.JUL.2020 00:27:54

802.11n-HT20 mode, 5240MHz

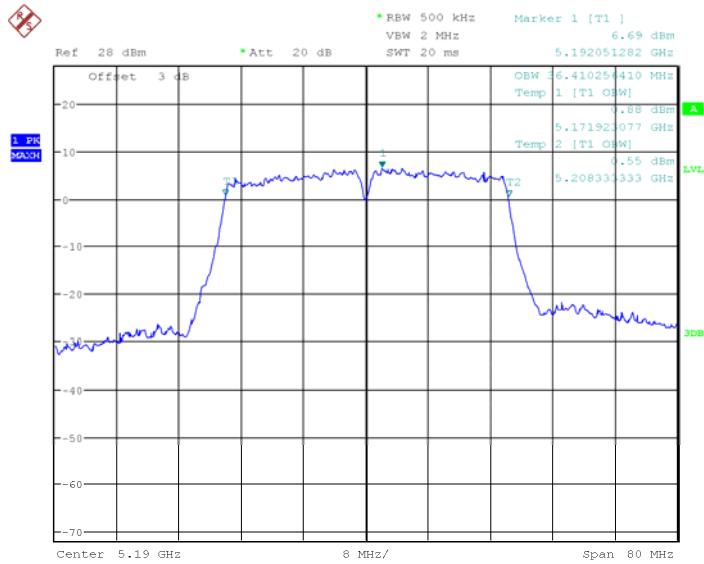
Date: 23.JUL.2020 00:29:38

802.11ac40 mode, 5190MHz

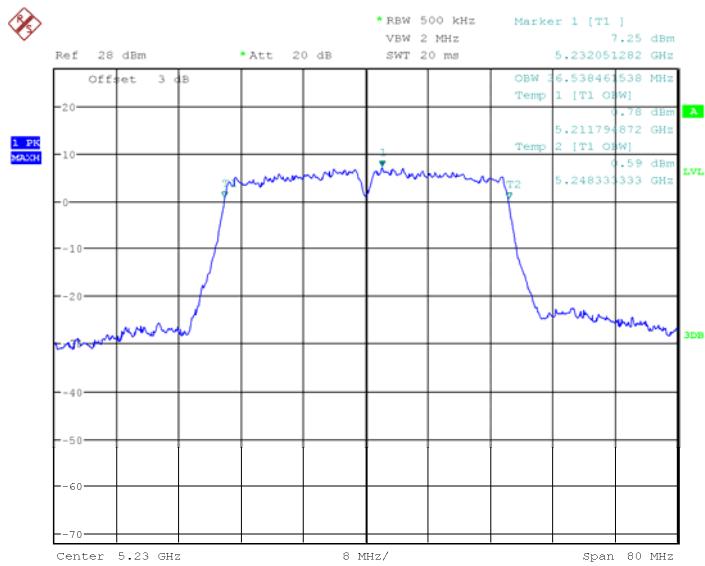
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802.11ac40 mode, 5230MHz

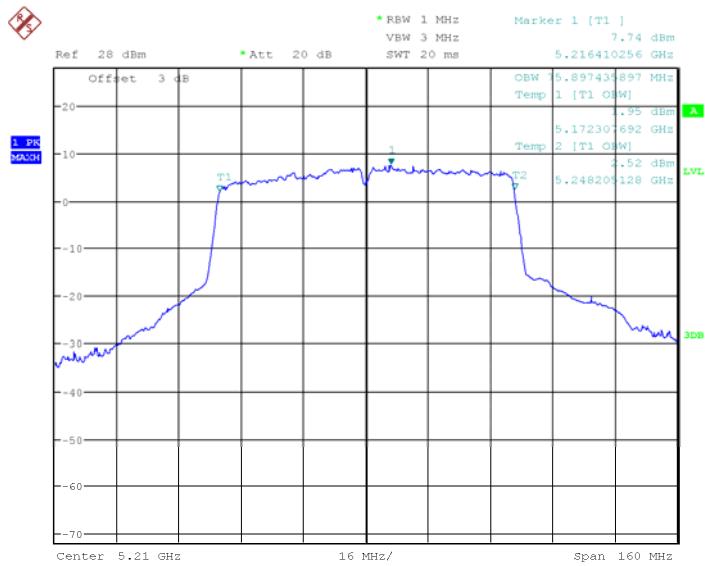
Date: 23.JUL.2020 00:42:28

802.11n-HT40 mode, 5190MHz

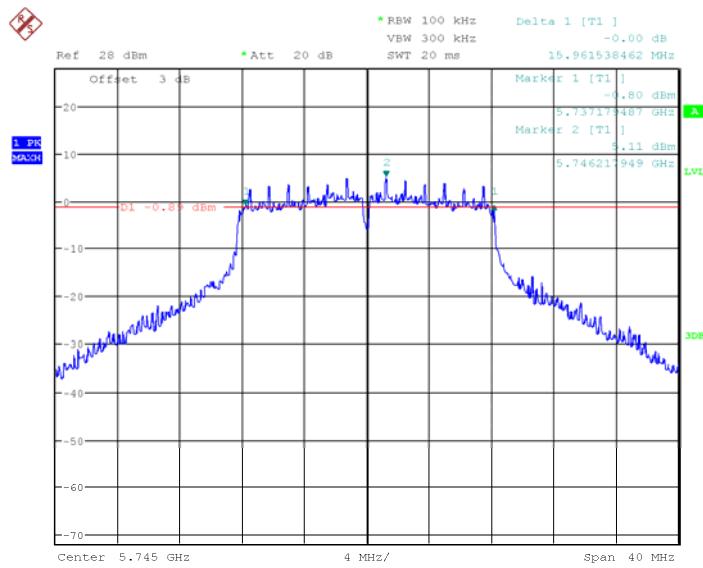
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802.11n-HT40 mode, 5230MHz

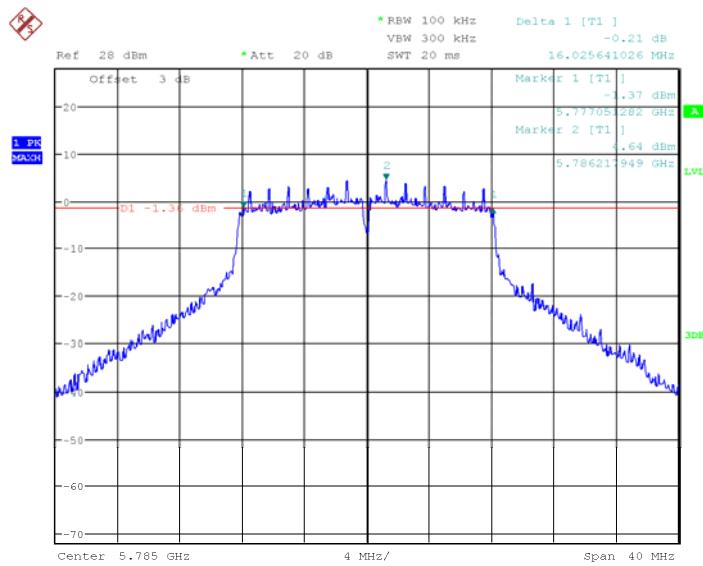
Date: 23.JUL.2020 00:37:00

802.11ac80 mode, 5210MHz

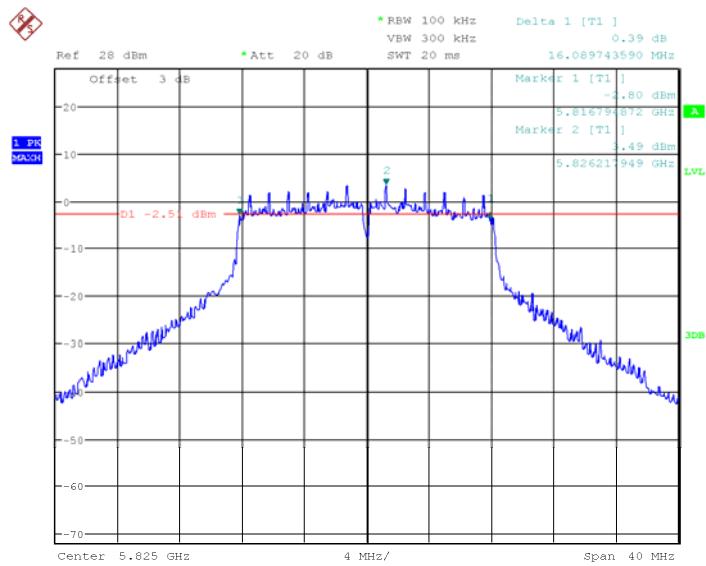
Date: 23.JUL.2020 00:44:56

5725-5850 MHz Band**6 Bandwidth****802.11a mode, 5745MHz**

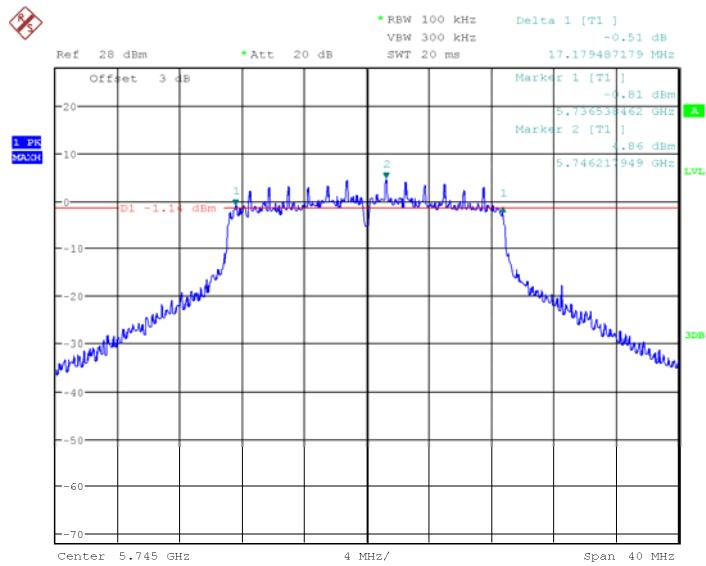
Date: 23.JUL.2020 20:19:33

802.11a mode, 5785MHz

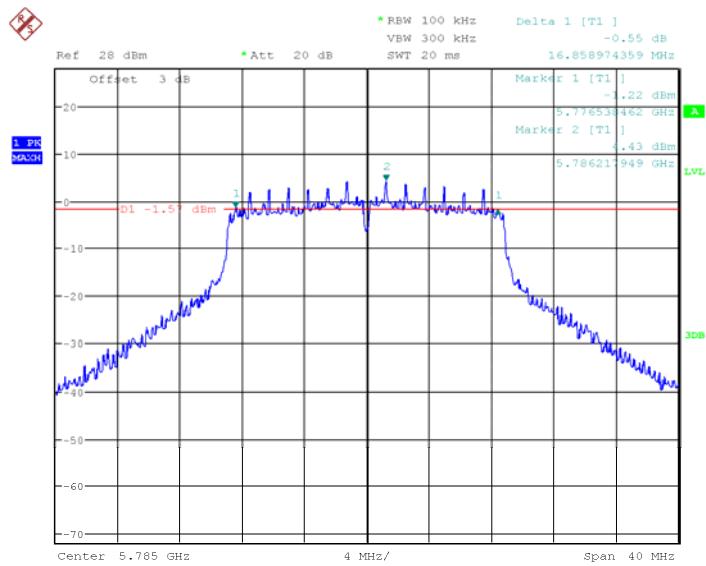
Date: 23.JUL.2020 20:29:50

802.11a mode, 5825MHz

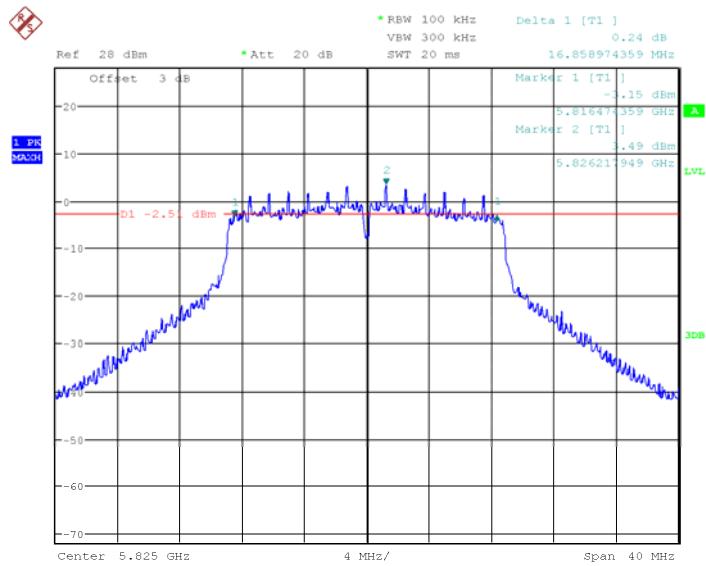
Date: 23.JUL.2020 20:10:36

802.11ac20 mode, 5745MHz

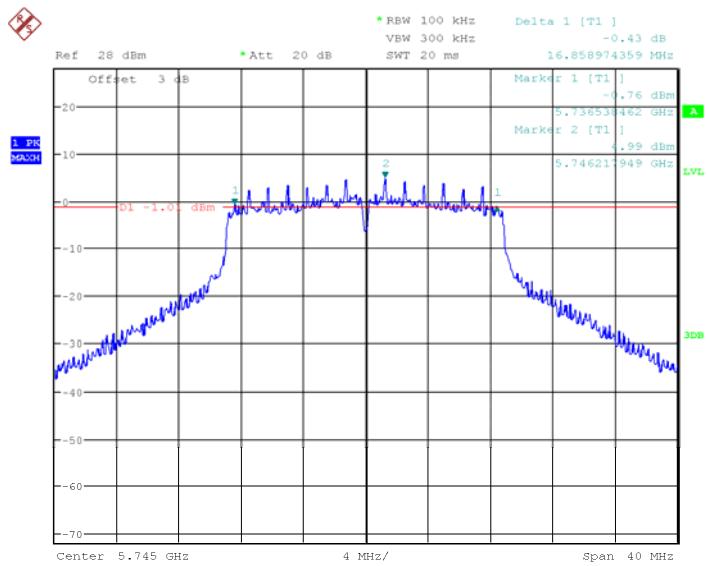
Date: 24.JUL.2020 17:24:28

802.11 ac20 mode, 5785MHz

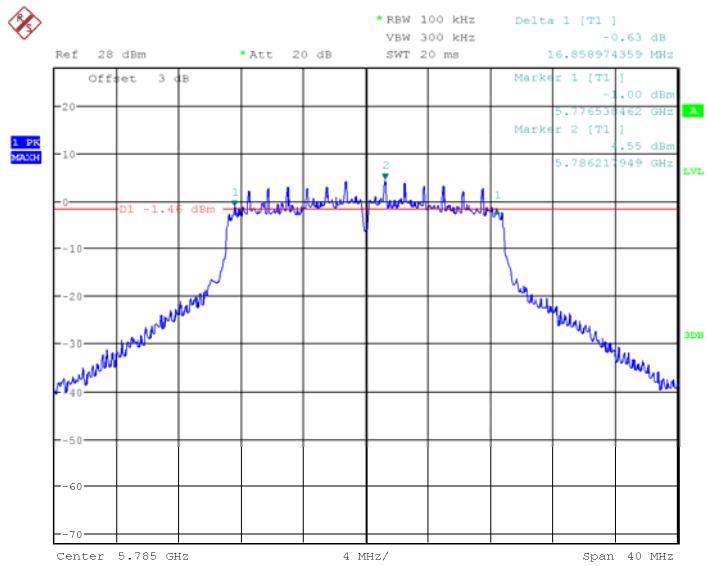
Date: 24.JUL.2020 17:27:23

802.11 ac20 mode, 5825MHz

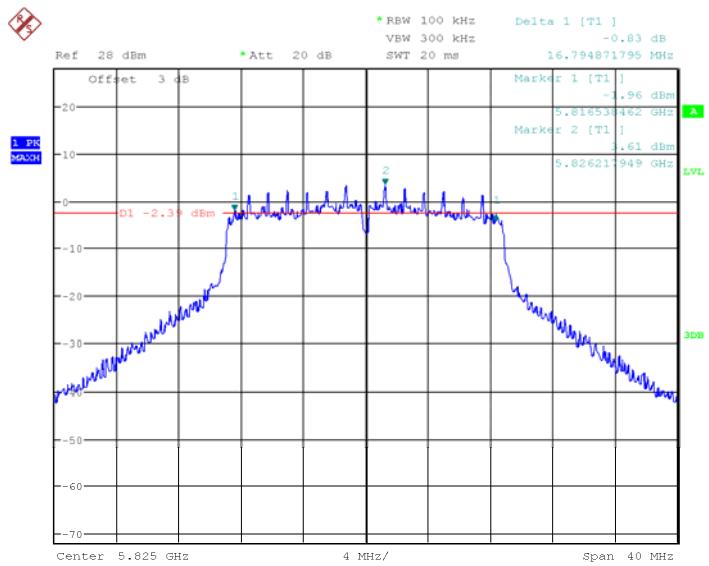
Date: 24.JUL.2020 17:33:17

802.11n-HT20 mode, 5745MHz

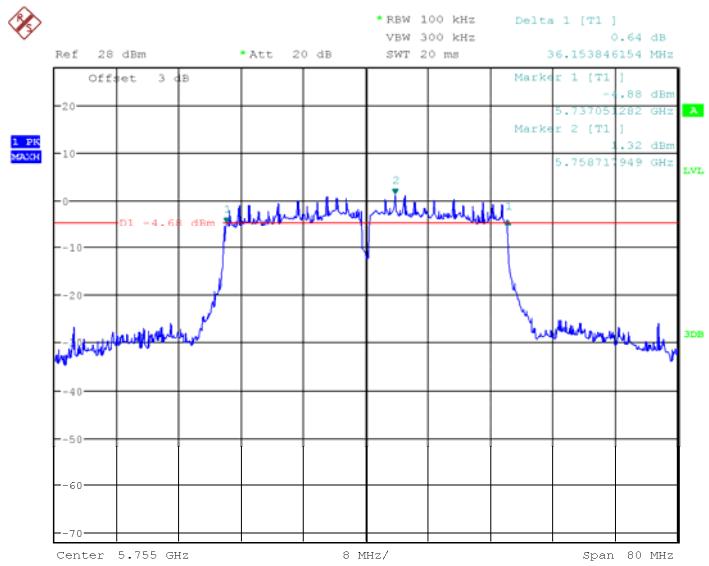
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802.11n-HT20 mode, 5785MHz

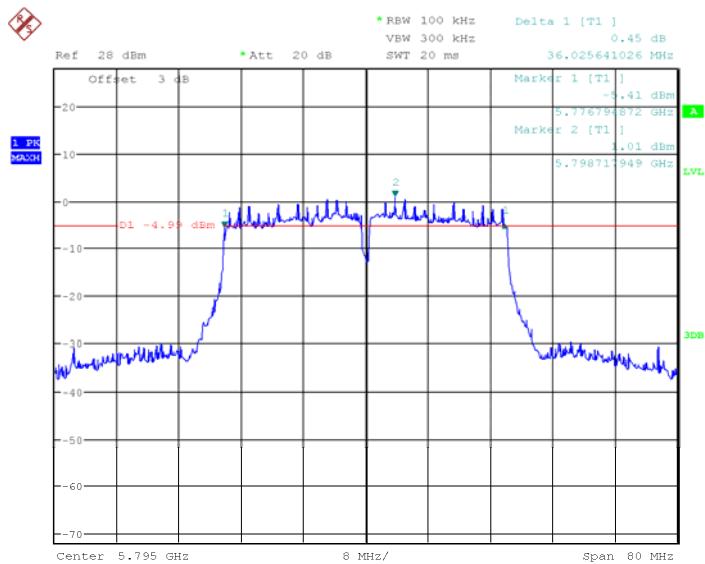
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802.11n-HT20 mode, 5825MHz

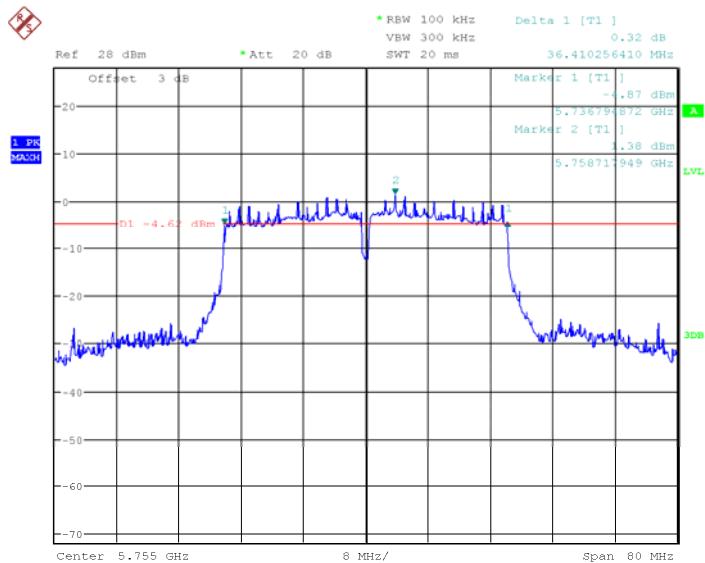
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802.11ac40 mode, 5755MHz

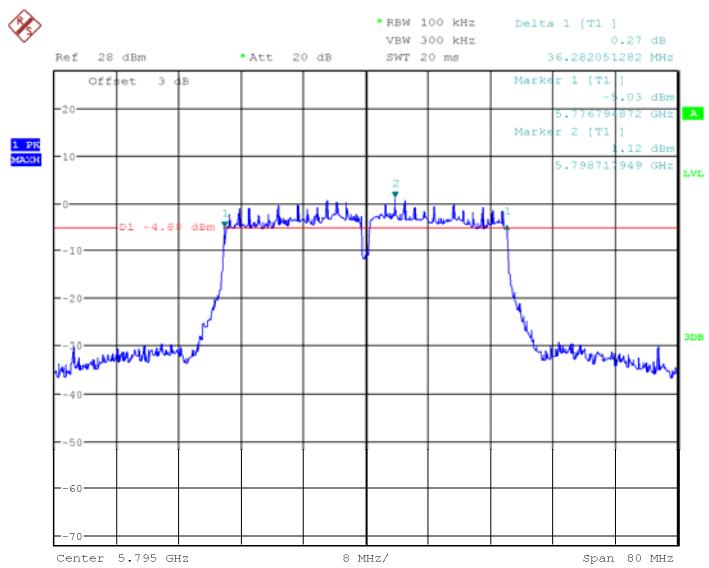
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802.11 ac40 mode, 5795MHz

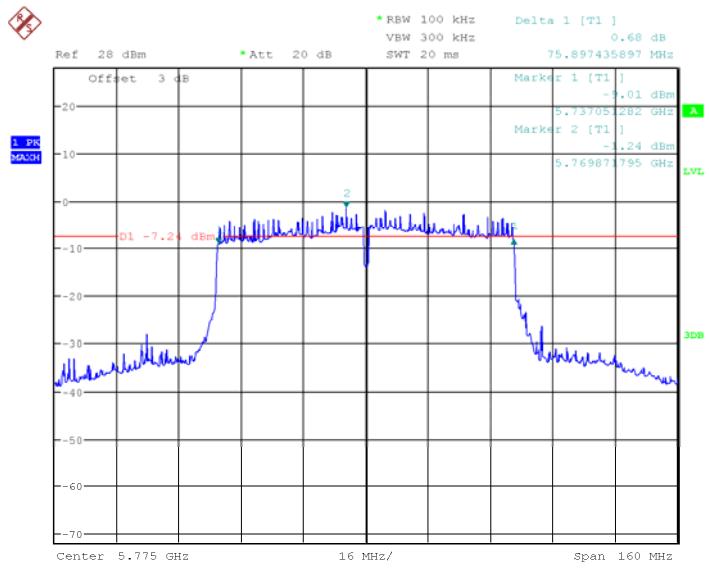
Date: 24.JUL.2020 18:40:38

802.11n-HT40 mode, 5755MHz

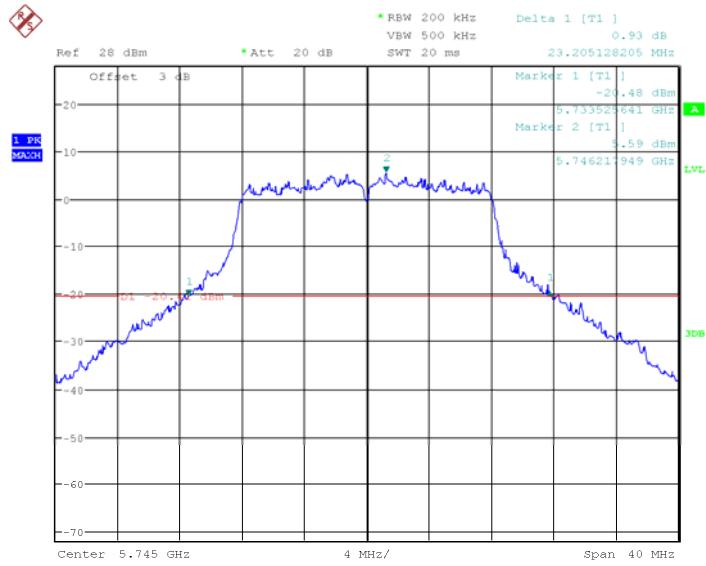
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802.11n-HT40 mode, 5795MHz

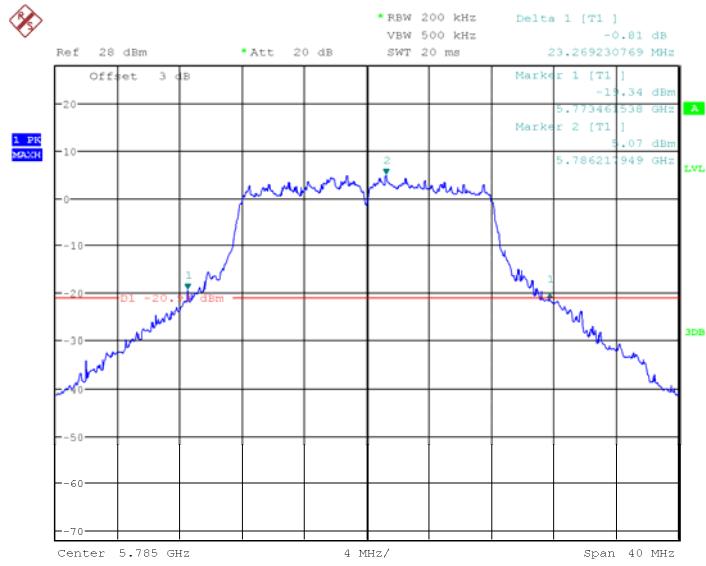
Date: 24.JUL.2020 17:53:16

802.11ac80 mode, 5775MHz

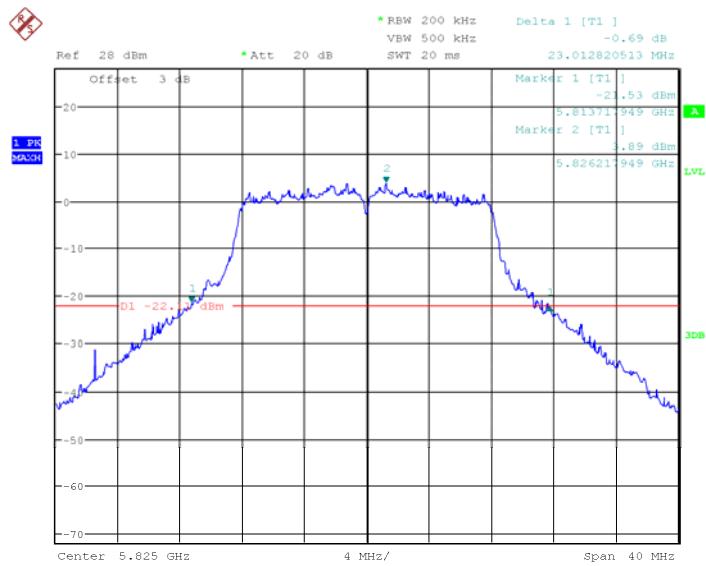
Date: 24.JUL.2020 19:00:16

26 Bandwidth**802.11a mode, 5745MHz**

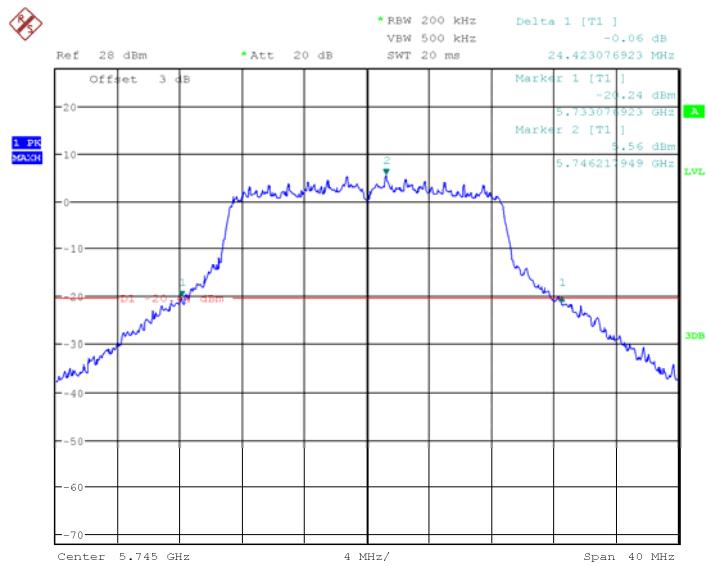
Date: 22.JUL.2020 23:18:23

802.11a mode, 5785MHz

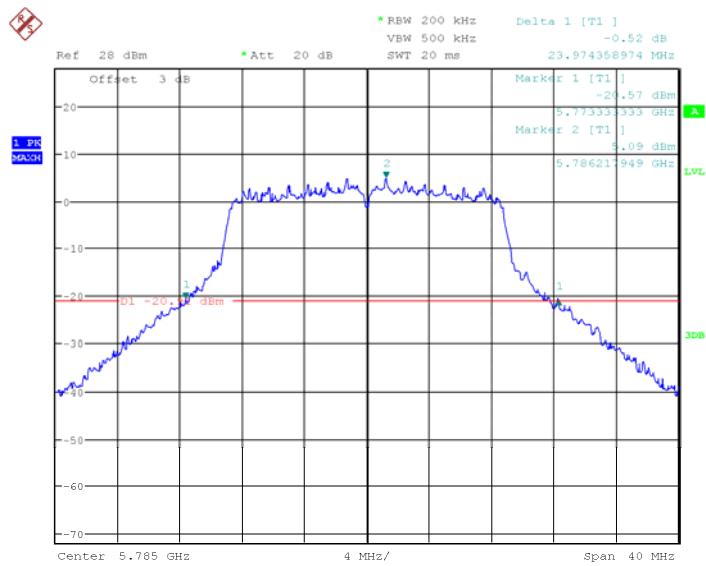
Date: 22.JUL.2020 23:21:59

802.11a mode, 5825MHz

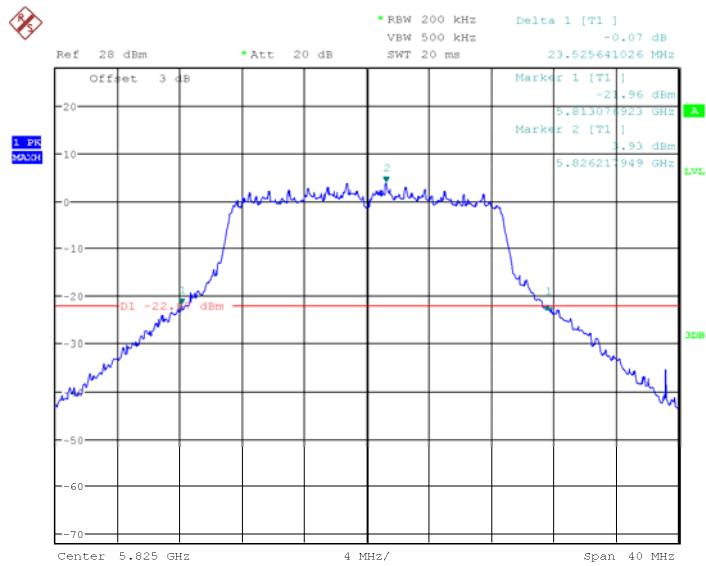
Date: 22.JUL.2020 23:26:43

802.11ac20 mode, 5745MHz

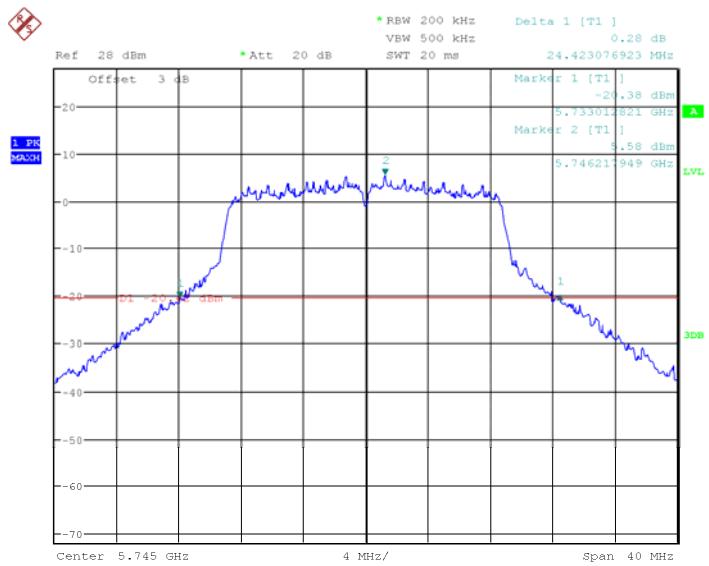
Date: 22.JUL.2020 23:43:13

802.11 ac20 mode, 5785MHz

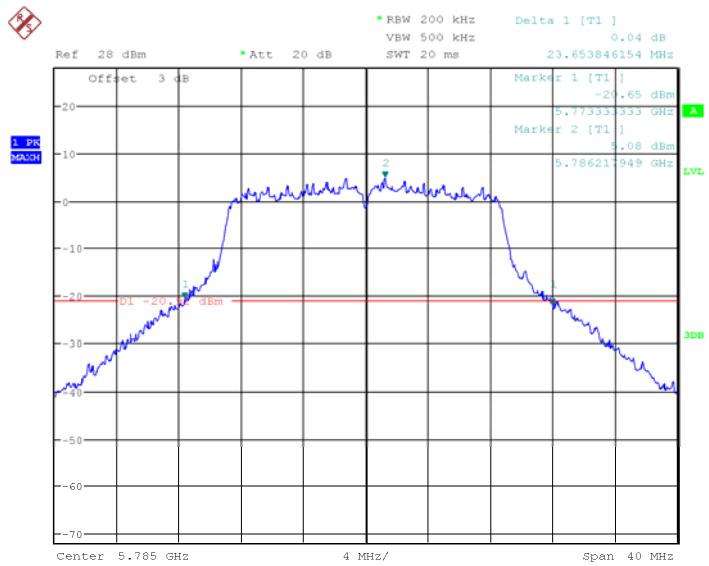
Date: 22.JUL.2020 23:46:14

802.11 ac20 mode, 5825MHz

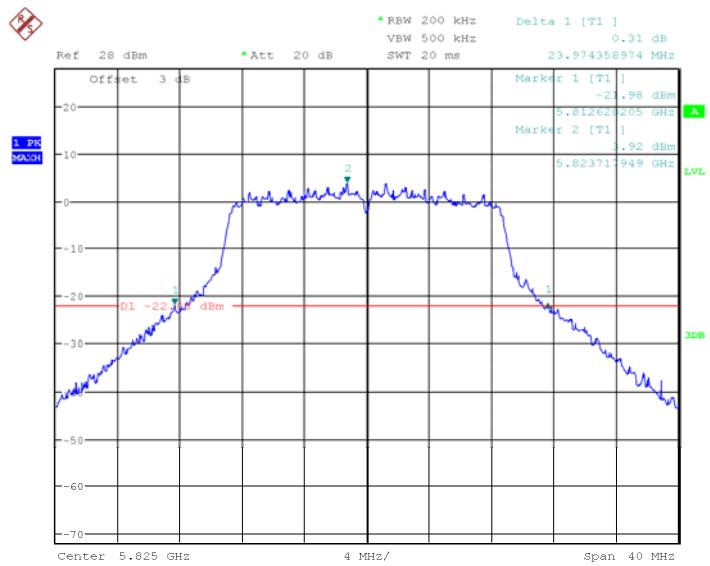
Date: 22.JUL.2020 23:50:07

802.11n-HT20 mode, 5745MHz

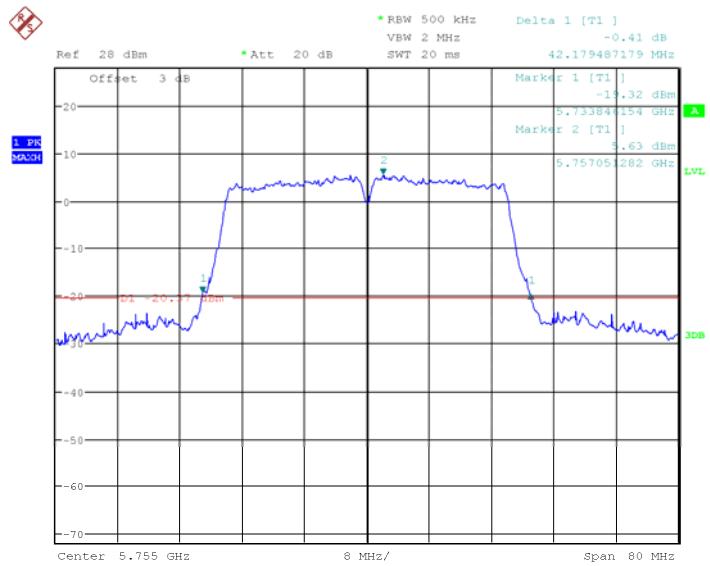
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802.11n-HT20 mode, 5785MHz

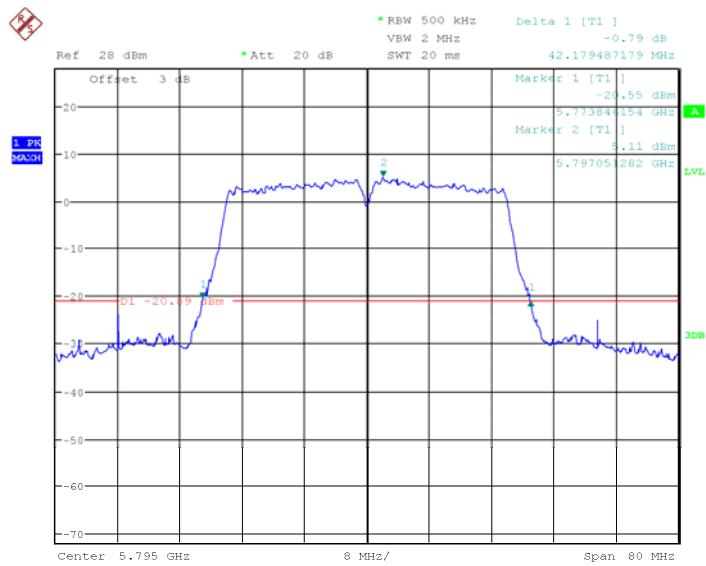
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802.11n-HT20 mode, 5825MHz

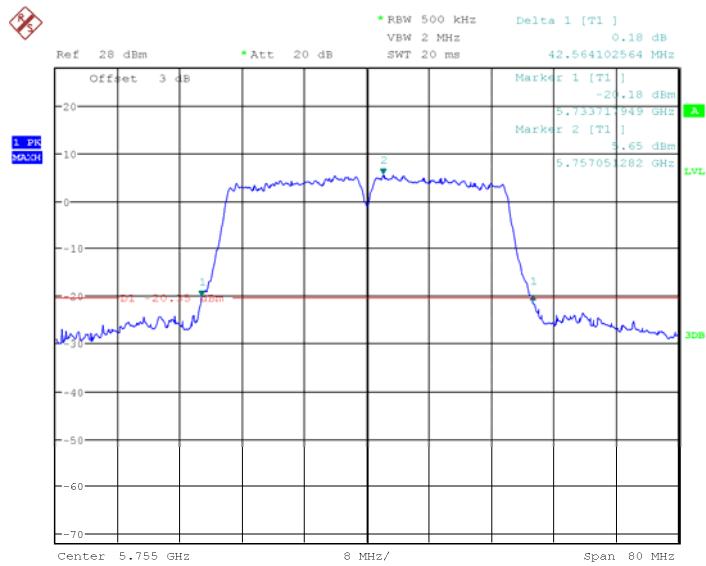
Date: 22.JUL.2020 23:39:17

802.11ac40 mode, 5755MHz

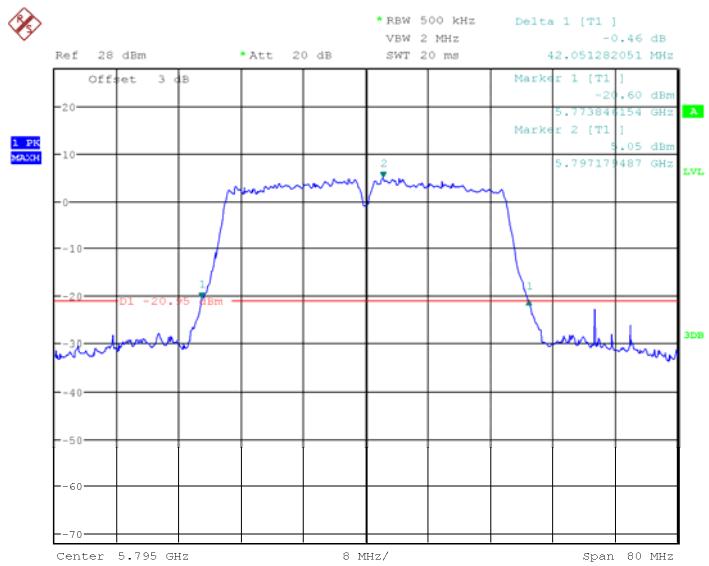
Date: 23.JUL.2020 00:00:49

802.11 ac40 mode, 5795MHz

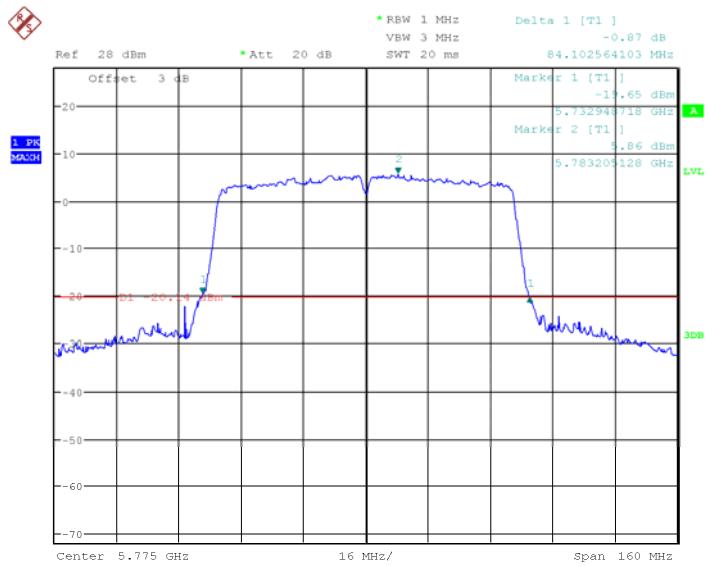
Date: 23.JUL.2020 00:03:35

802.11n-HT40 mode, 5755MHz

Date: 22.JUL.2020 23:54:10

802.11n-HT40 mode, 5795MHz

Date: 22.JUL.2020 23:57:56

802.11n-ac80 mode, 5775MHz

Date: 23.JUL.2020 00:07:31

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

Applicable Standard

According to §15.407(a)(1)

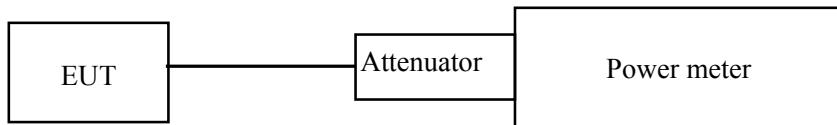
(iv) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. 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.

According to §15.407(a) (3)

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 duty cycle factor to the display.



Test Data

Environmental Conditions

Temperature:	24.8°C~25.9°C
Relative Humidity:	49%~50%
ATM Pressure:	101.2 kPa ~101.5 kPa

The testing was performed by Chris Wang from 2020-07-25 to 2020-07-26.

Test Mode: Transmitting

Test Mode: Transmitting

Test mode	Band	Channel	Frequency (MHz)	Average Conducted Output Power (dBm)	Limit (dBm)	Result
802.11a	5150-5250 MHz	Low	5180	14.23	24	PASS
		Middle	5200	14.74	24	PASS
		High	5240	15.17	24	PASS
	5725-5850 MHz	Low	5745	13.80	30	PASS
		Middle	5785	13.50	30	PASS
		High	5825	12.65	30	PASS
802.11n-HT20	5150-5250 MHz	Low	5180	14.08	24	PASS
		Middle	5200	14.53	24	PASS
		High	5240	15.01	24	PASS
	5725-5850 MHz	Low	5745	13.71	30	PASS
		Middle	5785	13.36	30	PASS
		High	5825	12.55	30	PASS
802.11n-HT40	5150-5250 MHz	Low	5190	14.63	24	PASS
		High	5230	15.11	24	PASS
	5725-5850 MHz	Low	5755	13.93	30	PASS
		High	5795	13.49	30	PASS
802.11ac20	5150-5250 MHz	Low	5180	14.11	24	PASS
		Middle	5200	14.55	24	PASS
		High	5240	14.95	24	PASS
	5725-5850 MHz	Low	5745	13.68	30	PASS
		Middle	5785	13.32	30	PASS
		High	5825	12.46	30	PASS
802.11ac40	5150-5250 MHz	Low	5190	14.65	24	PASS
		High	5230	15.08	24	PASS
	5725-5850 MHz	Low	5755	13.80	30	PASS
		High	5795	13.45	30	PASS
802.11ac80	5150-5250 MHz	/	5210	14.05	24	PASS
	5725-5850 MHz	/	5775	13.01	30	PASS

Note: The maximum antenna gain is -2.2 dBi.

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

Applicable Standard

According to §15.407(a)(1)

(iv) 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.

According to §15.407(a) (3)

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

The measurements are base on FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01: Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices section F: Maximum power spectral density (PPSD)

Test Data

Environmental Conditions

Temperature:	25.8°C
Relative Humidity:	54%
ATM Pressure:	101.5 kPa

The testing was performed by Chris Wang on 2020-07-27.

Test Mode: Transmitting

5150MHz-5250MHz:

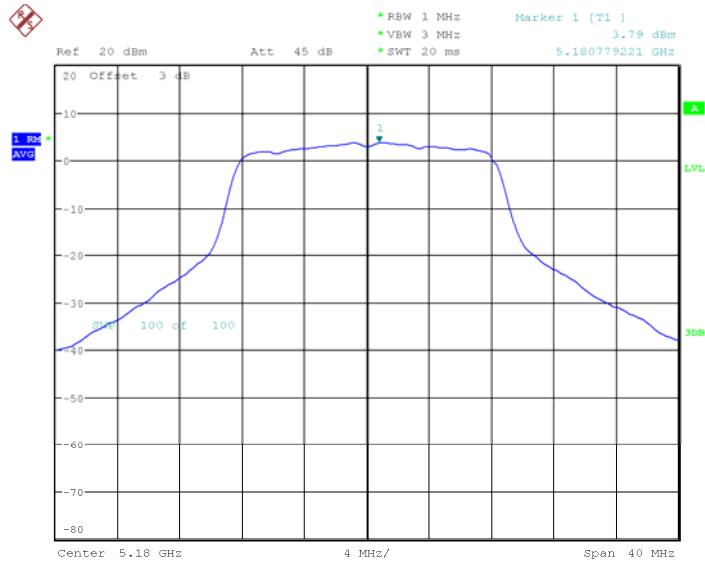
Mode	Channel	Frequency (MHz)	Reading (dBm/MHz)	Duty cycle Factor(dB)	PSD (dBm/MHz)	Limit (dBm/MHz)	Result
802.11a	Low	5180	3.79	0.26	4.05	11	PASS
	Middle	5200	4.04	0.26	4.30	11	PASS
	High	5240	4.65	0.26	4.91	11	PASS
802.11ac20	Low	5180	3.32	0.17	3.49	11	PASS
	Middle	5200	3.64	0.17	3.81	11	PASS
	High	5240	4.14	0.17	4.31	11	PASS
802.11n20	Low	5180	3.38	0.38	3.76	11	PASS
	Middle	5200	3.67	0.38	4.05	11	PASS
	High	5240	3.92	0.38	4.30	11	PASS
802.11ac40	Low	5190	0.85	0.41	1.26	11	PASS
	High	5230	1.28	0.41	1.69	11	PASS
802.11n40	Low	5190	0.95	0.44	1.39	11	PASS
	High	5230	1.04	0.44	1.48	11	PASS
802.11ac80	/	5210	-3.83	0.71	-3.12	11	PASS

5725MHz-5850MHz:

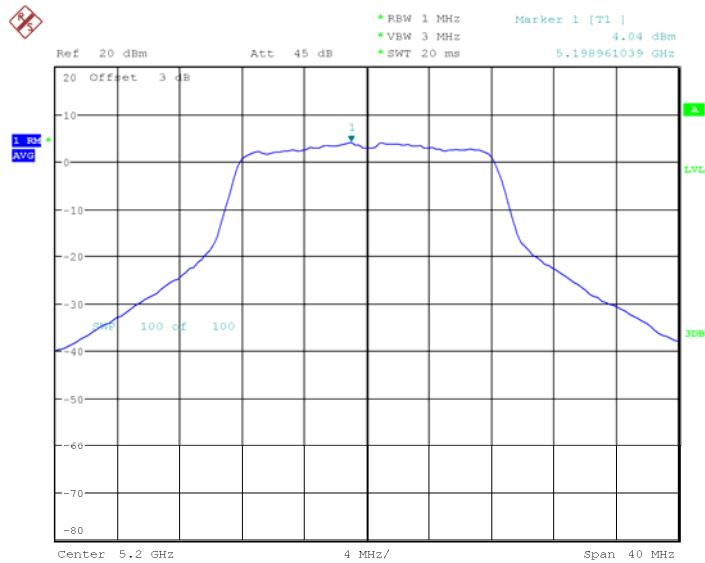
Mode	Channel	Frequency MHz	Reading (dBm/500kHz)	Duty cycle Factor(dB)	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
802.11a	Low	5745	0.63	0.16	0.79	30	PASS
	Middle	5785	0.36	0.16	0.52	30	PASS
	High	5825	-0.53	0.16	-0.37	30	PASS
802.11ac20	Low	5745	0.00	0.17	0.17	30	PASS
	Middle	5785	-0.06	0.17	0.11	30	PASS
	High	5825	-1.07	0.17	-0.90	30	PASS
802.11n20	Low	5745	0.05	0.17	0.22	30	PASS
	Middle	5785	-0.24	0.17	-0.07	30	PASS
	High	5825	-1.06	0.17	-0.89	30	PASS
802.11ac40	Low	5755	-3.02	0.33	-2.69	30	PASS
	High	5795	-3.52	0.33	-3.19	30	PASS
802.11n40	Low	5755	-3.22	0.31	-2.91	30	PASS
	High	5795	-3.52	0.31	-3.21	30	PASS
802.11ac80	/	5775	-8.40	0.71	-7.69	30	PASS

Note:

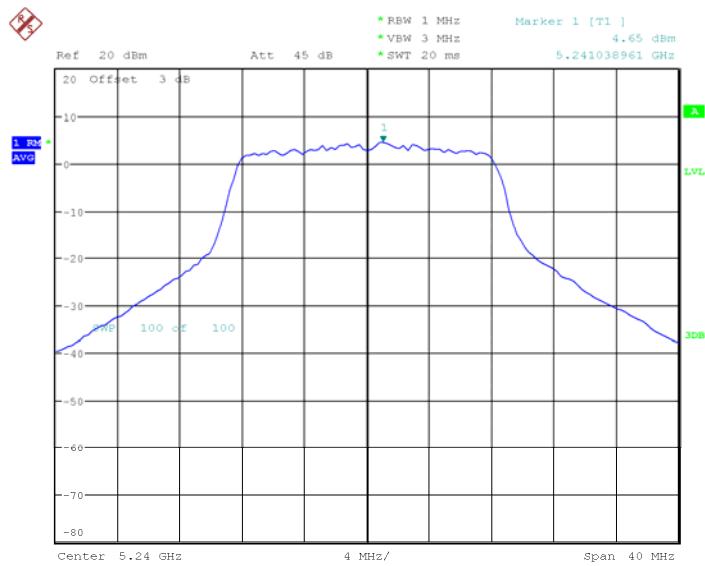
The maximum antenna gain is -2.2 dBi.

5150MHz-5250MHz Band :**802.11a mode, Power spectral density-5180MHz**

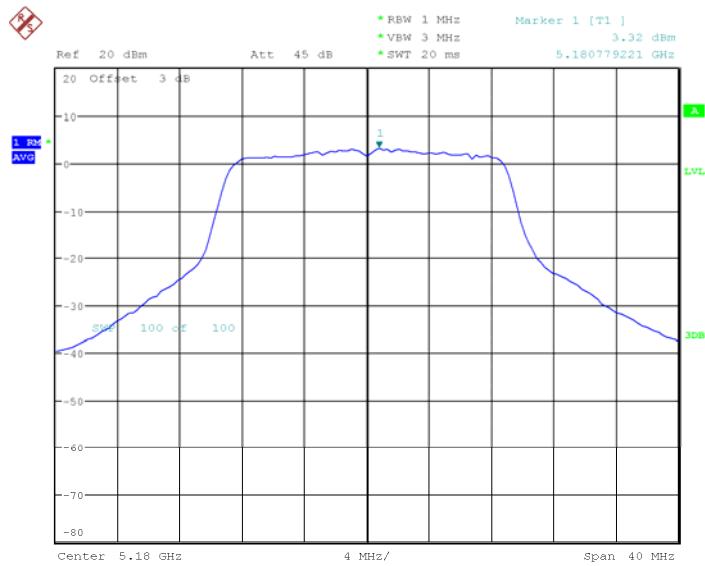
Date: 27.JUL.2020 13:19:55

802.11a mode, Power spectral density-5200MHz

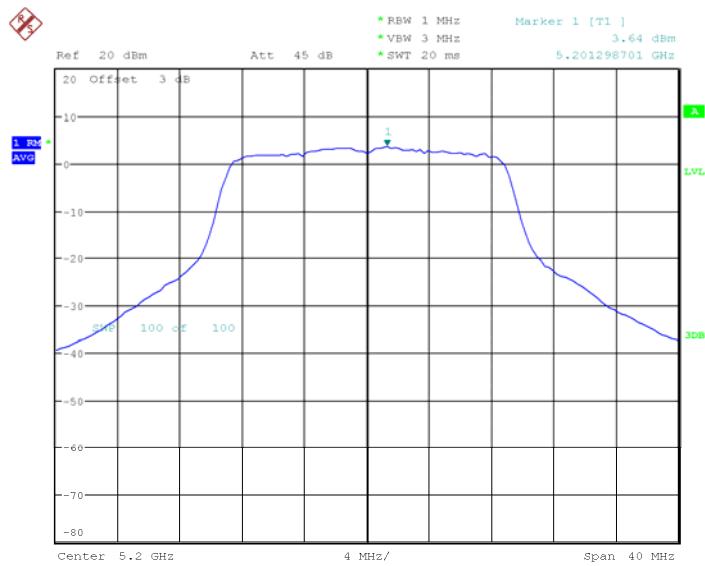
Date: 27.JUL.2020 13:21:06

802.11a mode, Power spectral density-5240MHz

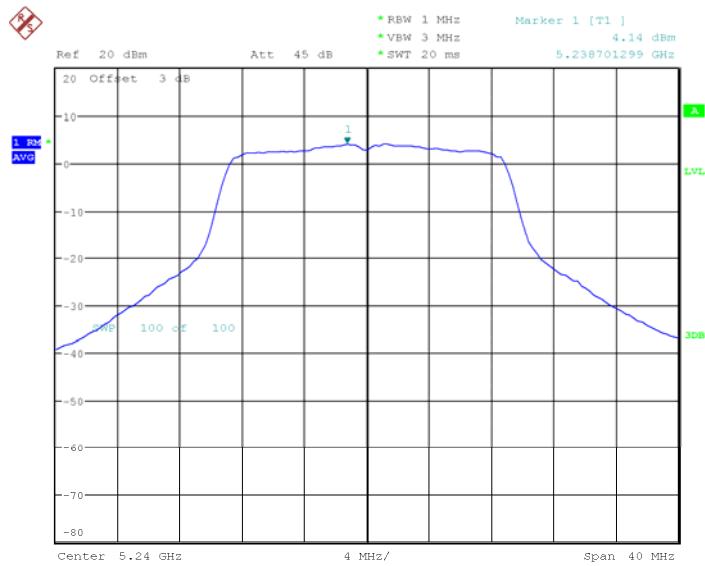
Date: 27.JUL.2020 13:22:05

802.11ac20 mode, Power spectral density-5180MHz

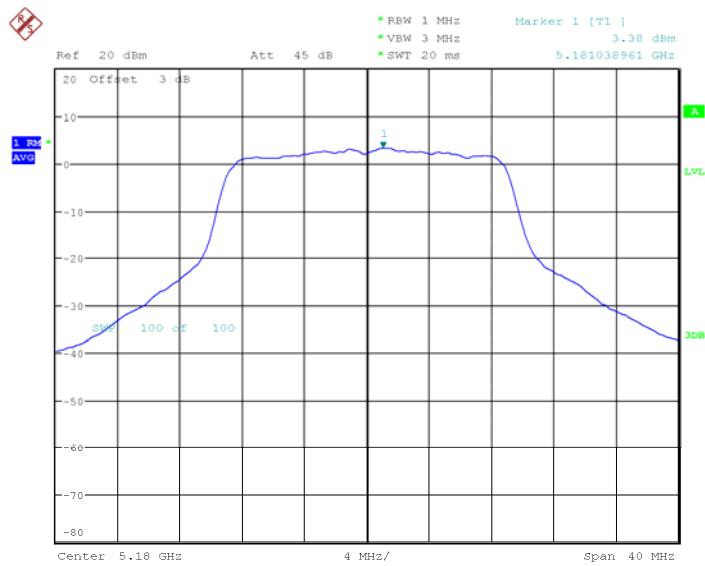
Date: 27.JUL.2020 13:29:21

802.11 ac20 mode, Power spectral density-5200MHz

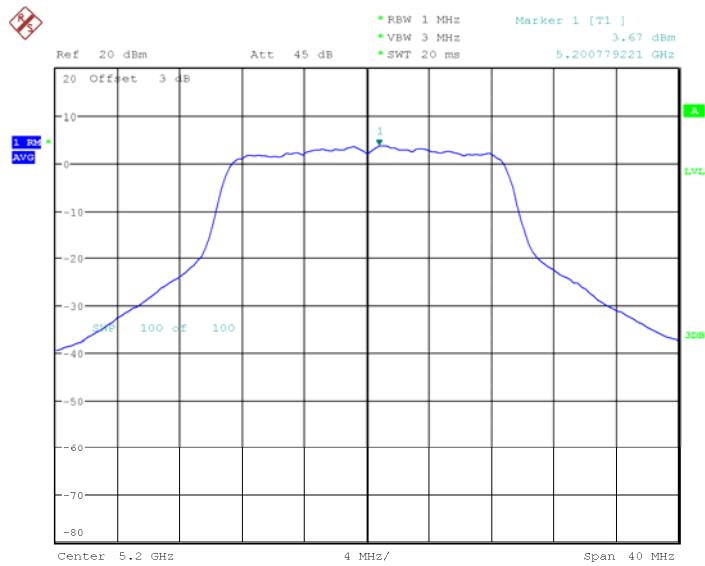
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802.11ac20 mode, Power spectral density-5240MHz

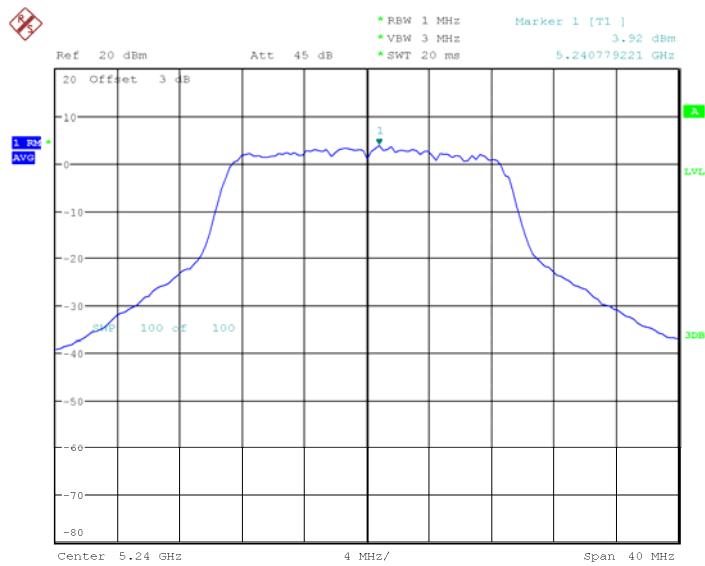
Date: 27.JUL.2020 13:32:01

802.11n-HT20 mode, Power spectral density-5180MHz

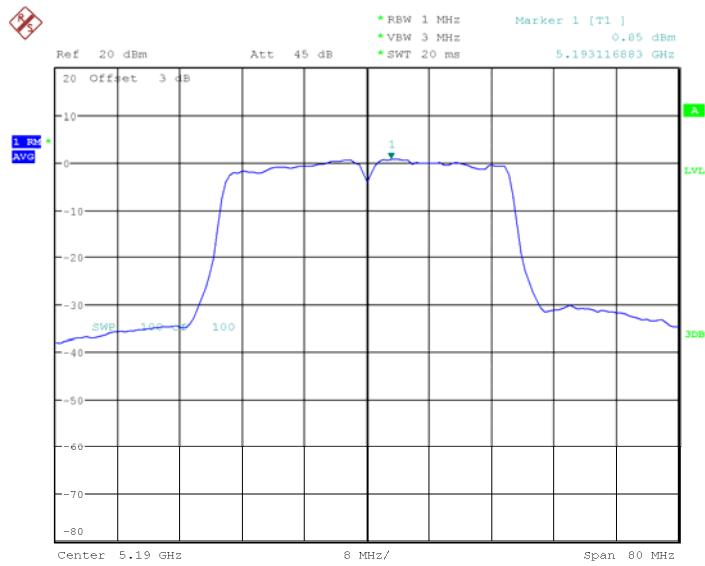
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802.11n-HT20 mode, Power spectral density-5200MHz

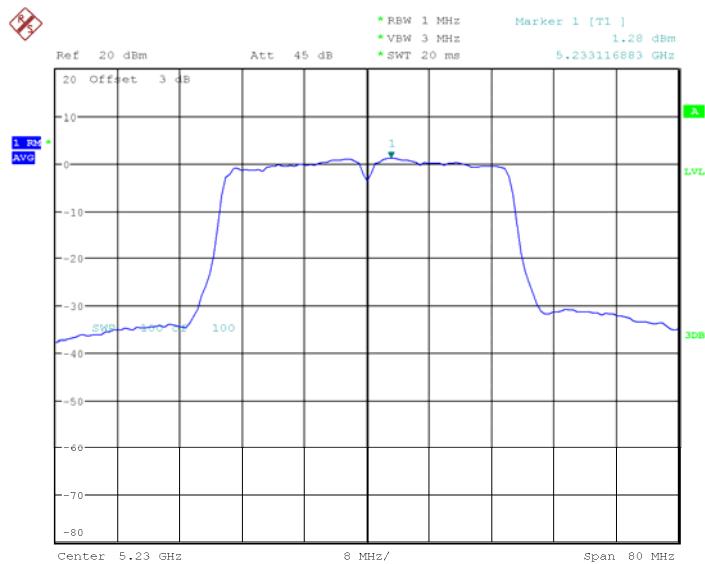
Date: 27.JUL.2020 13:24:39

802.11n-HT20 mode, Power spectral density-5240MHz

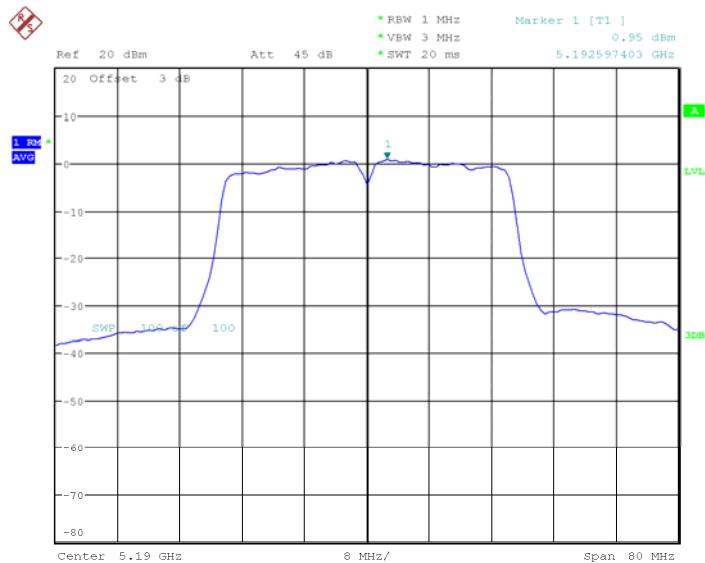
Date: 27.JUL.2020 13:25:46

802.11ac40 mode, Power spectral density-5190MHz

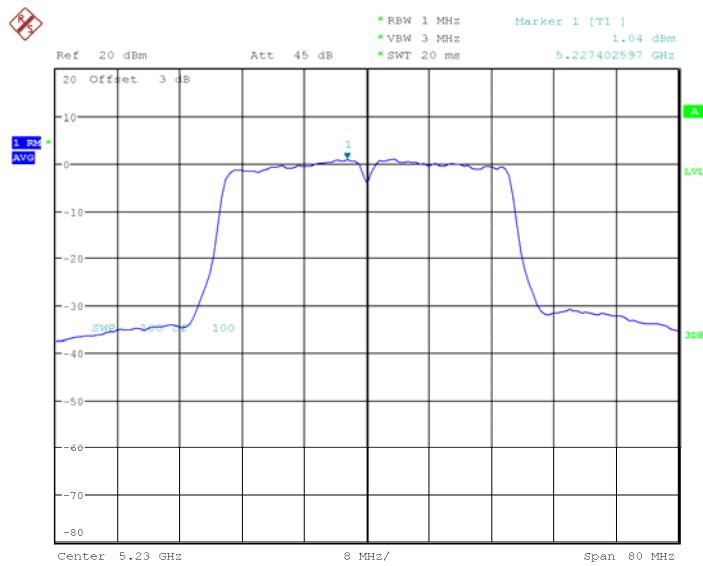
Date: 27.JUL.2020 13:38:30

802.11 ac40 mode, Power spectral density-5230MHz

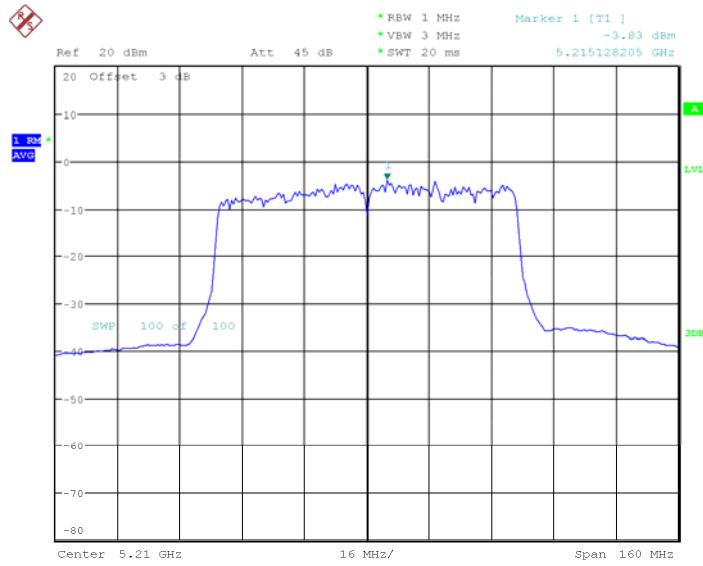
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802.11n-HT40 mode, Power spectral density-5190MHz

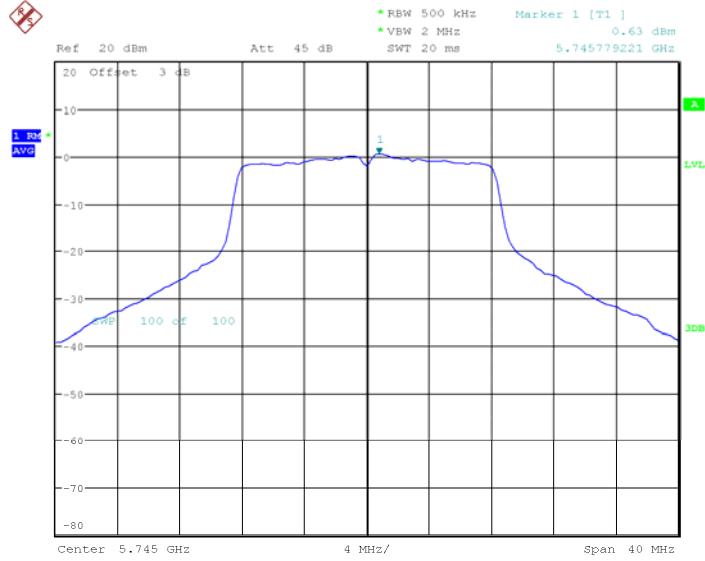
Date: 27.JUL.2020 13:36:16

802.11n-HT40 mode, Power spectral density-5230MHz

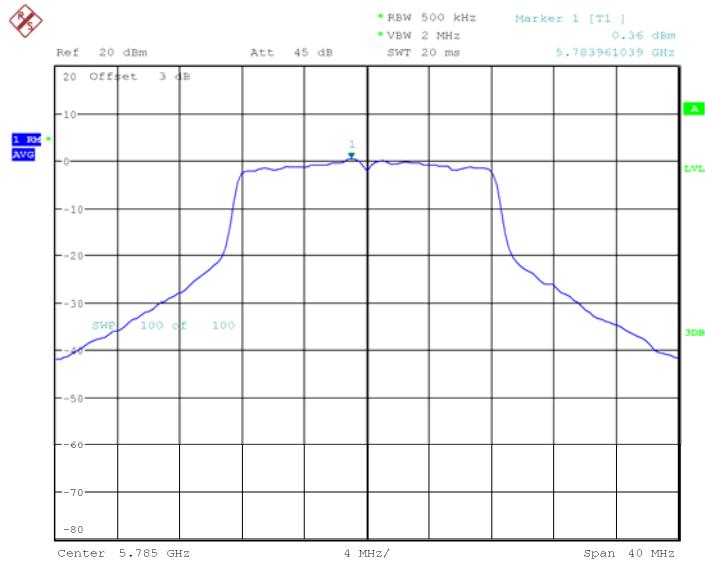
Date: 27.JUL.2020 13:37:48

802.11n- ac80 mode, Power spectral density-5210MHz

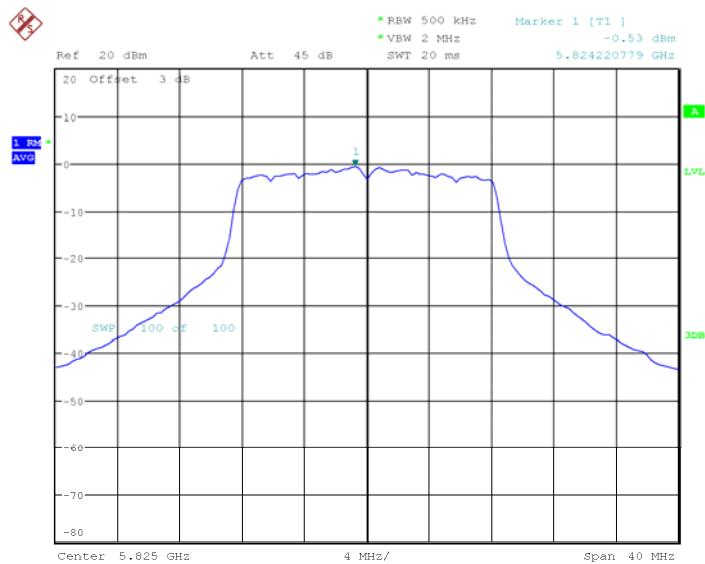
Date: 27.JUL.2020 13:41:10

5725MHz-5850 MHz Band:**802.11a mode, Power spectral density-5745MHz**

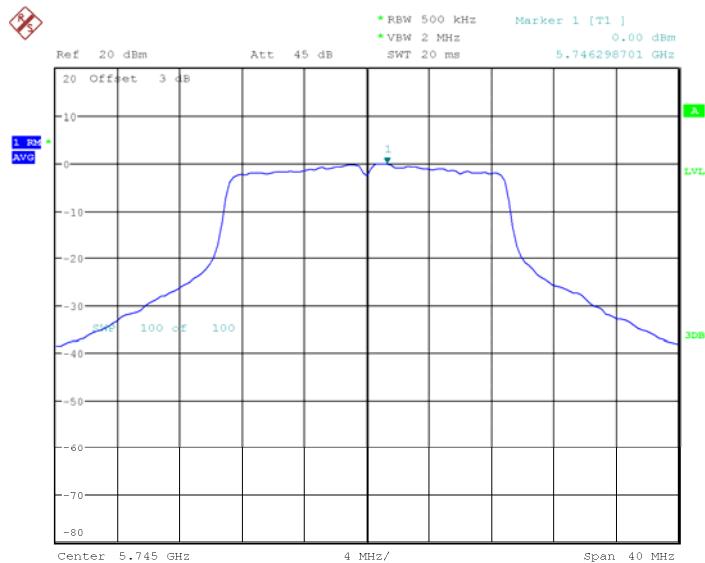
Date: 27.JUL.2020 12:13:56

802.11a mode, Power spectral density-5785MHz

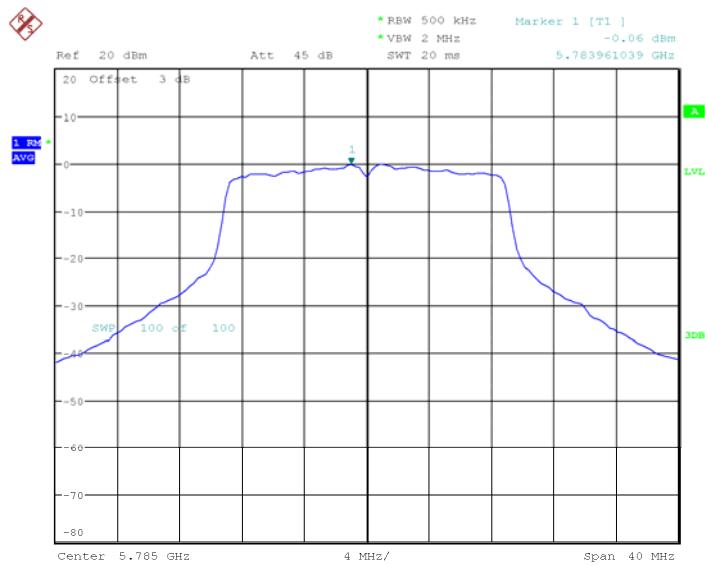
Date: 27.JUL.2020 12:16:07

802.11a mode, Power spectral density-5825MHz

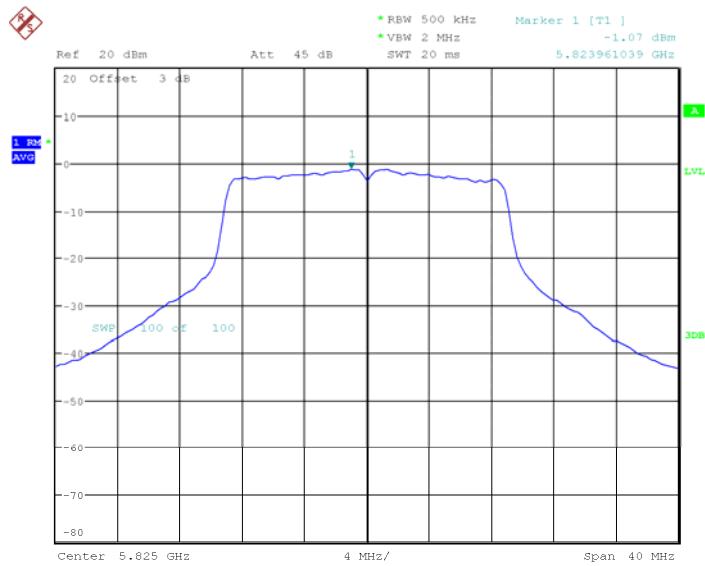
Date: 27.JUL.2020 12:21:10

802.11ac20 mode, Power spectral density-5745MHz

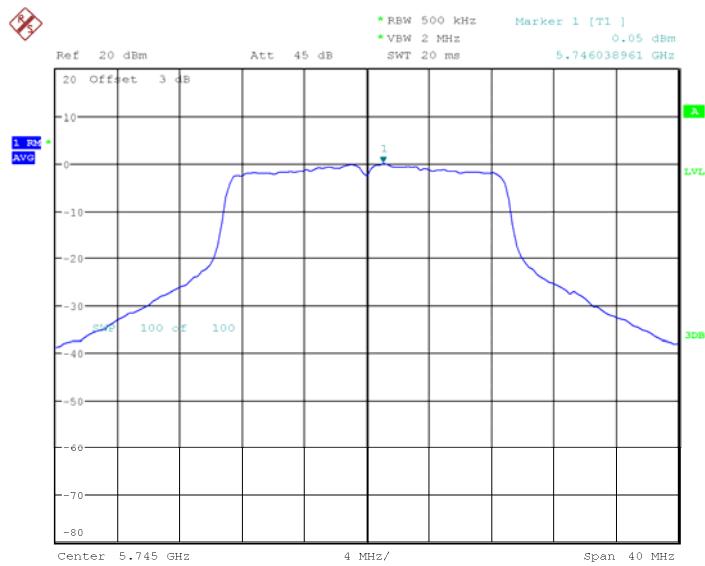
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802.11 ac20 mode, Power spectral density-5785MHz

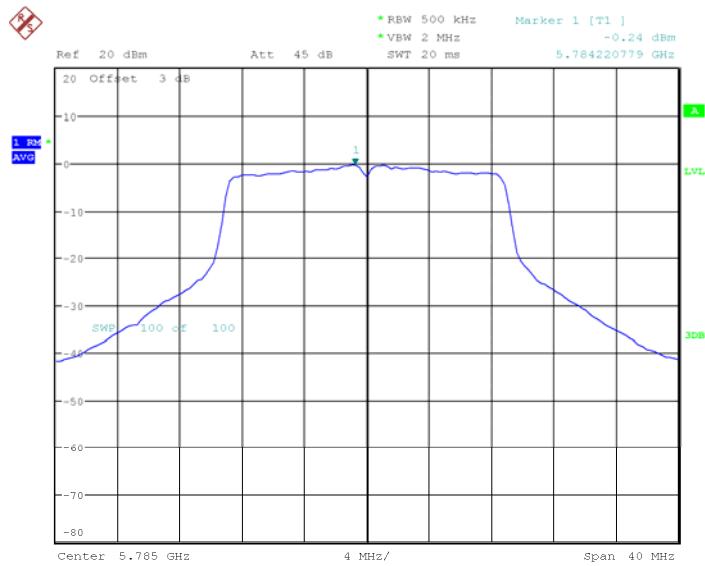
Date: 27.JUL.2020 12:09:17

802.11 ac20 mode, Power spectral density-5825MHz

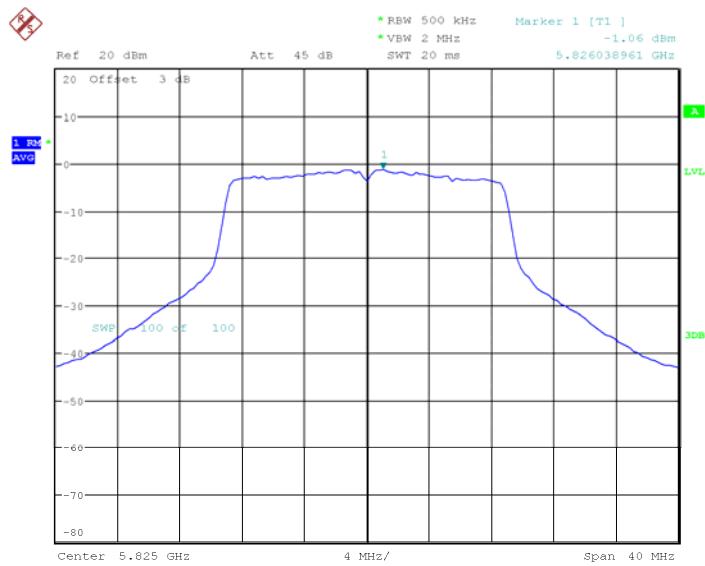
Date: 27.JUL.2020 12:10:50

802.11n-HT20 mode, Power spectral density-5745MHz

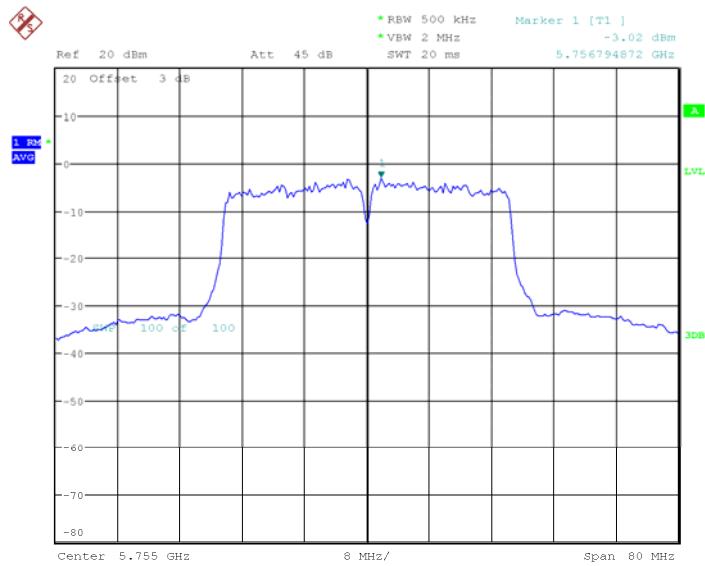
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802.11n-HT20 mode, Power spectral density-5785MHz

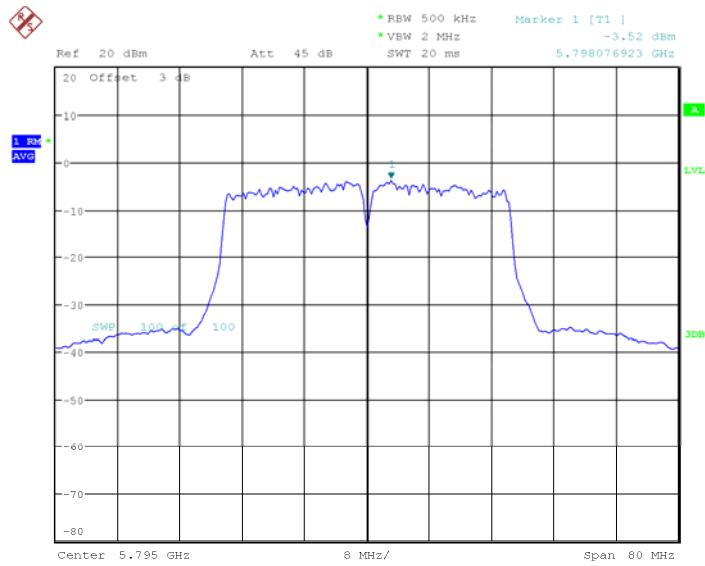
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802.11n-HT20 mode, Power spectral density-5825MHz

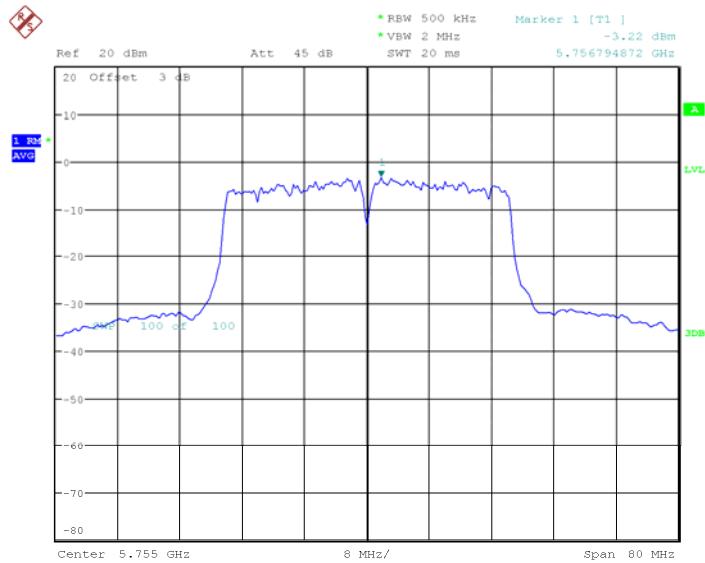
Date: 27.JUL.2020 12:05:48

802.11ac40 mode, Power spectral density-5755MHz

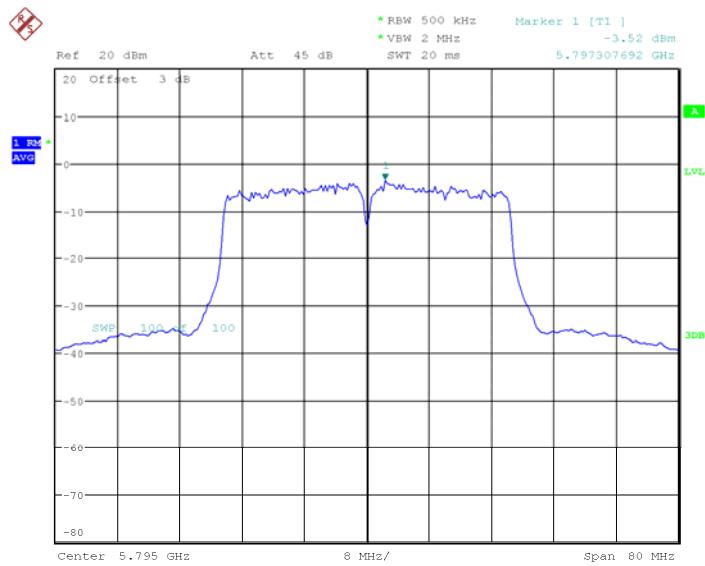
Date: 27.JUL.2020 12:26:57

802.11 ac40 mode, Power spectral density-5795MHz

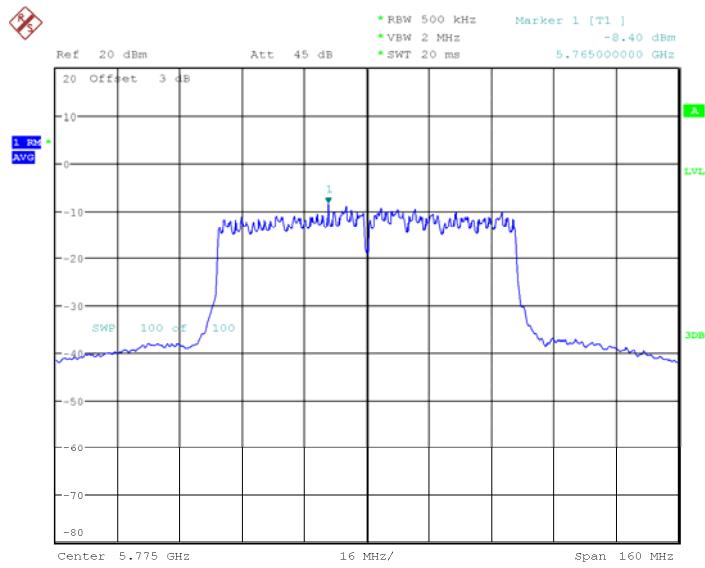
Date: 27.JUL.2020 12:28:46

802.11n-HT40 mode, Power spectral density-5755MHz

Date: 27.JUL.2020 12:24:07

802.11n-HT40 mode, Power spectral density-5795MHz

Date: 27.JUL.2020 12:25:38

802.11 ac80 mode, Power spectral density-5775MHz

Date: 27.JUL.2020 12:32:36

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- 3: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
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