TESTING LABORATORY
CERTIFICATE #4820.01

FCC PART 15.407

TEST REPORT

For

Hytera Communications Corporation Limited

Hytera Tower, Hi-Tech Industrial Park North, 9108# Beihuan Road, Nanshan District, Shenzhen, 518057 China

FCC ID: YAMVM690

Report Type:	**Product Name:**
Original Report	Body Worn Camera

Report Number:	DG2210722-30456E-00C
Report Date:	2021-08-27
Reviewed By:	Ivan Cao Assistant Manager
Test Laboratory:	Bay Area Compliance Laboratories Corp. (Dongguan) No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China Tel: +86-769-86858888 Fax: +86-769-86858891 www.baclcorp.com.cn

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

EUT Name:	Body Worn Camera
EUT Model:	VM690 Pro
Multiple Model:	VM690
Operation Frequency:	5180-5240 MHz (802.11a/n ht20/ac vht20) 5190-5230 MHz(802.11n ht40/ac vht40) 5210 MHz(802.11ac vht80) 5260-5320 MHz (802.11a/n ht20/ac vht20) 5270-5310 MHz(802.11n ht40/ac vht40) 5290 MHz(802.11ac vht80) 5500-5720 MHz (802.11a/n ht20/ac vht20) 5510-5710 MHz(802.11n ht40/ac vht40) 5530-5690 MHz(802.11ac vht80) 5745-5825 MHz (802.11a/n ht20/ac vht20) 5755-5795 MHz(802.11n ht40/ac vht40) 5775 MHz(802.11ac vht80)
Maximum Output Power (Conducted):	11.62 dBm
Antenna Gain▲:	-3.0 dBi
Modulation Type:	OFDM
Rated Input Voltage:	DC 3.85V from battery or DC 5V from Adapter
Serial Number:	DG2210722-30456E-RF-S1
EUT Received Date:	2021.07.22
EUT Received Status:	Good

Note: The series product, models VM690, VM690 Pro are electrically identical, model VM690 Pro was fully tested. The different between them please refer to the declaration letter for details.

Objective

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

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

Test Methodology

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

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

Measurement Uncertainty

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

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

Test Facility

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

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

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

Declarations

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

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

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system support 802.11a/n ht20/n ht40/ac vht20/ac vht40/ac vht80, the vht20/vht40 were reduced since the identical parameters with 802.11n ht20 and ht40.

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

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

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

For 5250~5350 MHz band, 7 channels are provided:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	60	5300
54	5270	62	5310
56	5280	64	5320
58	5290	/	/

For 802.11a, 802.11n ht20, Channel 52, 56 and 64 were tested, for 802.11n ht40 Channel 54, 62 were tested, for 802.11ac vht80 channel 58 was tested.

For 5470~5725 MHz band, 21 channels are provided:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	116	5580	132	5660
102	5510	118	5590	134	5670
104	5520	120	5600	136	5680
106	5530	122	5610	138	5690
108	5540	124	5620	140	5700
110	5550	126	5630	142	5710
112	5560	128	5640	144	5720

For 802.11a, 802.11n ht20 Channel 100, 116 and 140 were tested, for 802.11n ht40 Channel 102, 110 and 134 were tested, for 802.11ac vht80 channel 106,122.

Channel 144 for 802.11a and n ht20, Channel 142 for 802.11n ht40, Channel 138 for 802.11ac vht80 crossed the band U-NII 2C to U-NII 3, were choose to test for compliance requirement.

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

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

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

EUT Exercise Software

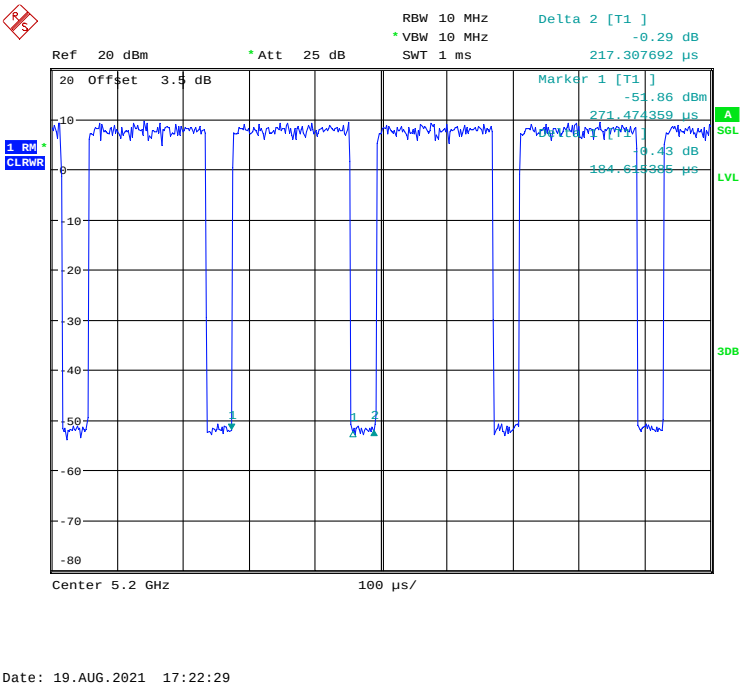
The software "TESTFORM" was used for testing, which was provided by Manufacturer. The worst-case data rates are determined to be as follows for each mode based upon investigations by measuring the average power and PSD across all date rates, bandwidths, and modulations. The maximum power was configured as below table, that provided by the Manufacturer▲:

Band	Mode	Channel	Frequency (MHz)	Data Rate	Power Level Setting
5150 - 5250 MHz	802.11a	Low	5180	6Mbps	Default
		Middle	5200	6Mbps	Default
		High	5240	6Mbps	Default
	802.11n ht20	Low	5180	MCS0	Default
		Middle	5200	MCS0	Default
		High	5240	MCS0	Default
	802.11n ht40	Low	5190	MCS0	Default
		High	5230	MCS0	Default
	802.11ac vht80	Middle	5210	MCS0	Default
5250- 5350 MHz	802.11a	Low	5260	6Mbps	Default
		Middle	5280	6Mbps	Default
		High	5320	6Mbps	Default
	802.11n ht20	Low	5260	MCS0	Default
		Middle	5280	MCS0	Default
		High	5320	MCS0	Default
	802.11n ht40	Low	5270	MCS0	Default
		High	5310	MCS0	Default
	802.11ac vht80	Middle	5290	MCS0	Default
5470 - 5725 MHz	802.11a	Low	5500	6Mbps	Default
		Middle	5580	6Mbps	Default
		High	5700	6Mbps	Default
		Additional	5720	6Mbps	Default
	802.11n ht20	Low	5500	MCS0	Default
		Middle	5580	MCS0	Default
		High	5700	MCS0	Default
		Additional	5720	MCS0	Default
	802.11n ht40	Low	5510	MCS0	Default
		Middle	5550	MCS0	Default
		High	5670	MCS0	Default
		Additional	5710	MCS0	Default
	802.11ac vht80	Low	5530	MCS0	Default
		Middle	5610	MCS0	Default
		Additional	5690	MCS0	Default
5725 - 5850 MHz	802.11a	Low	5745	6Mbps	Default
		Middle	5785	6Mbps	Default
		High	5825	6Mbps	Default
	802.11n ht20	Low	5745	MCS8	Default
		Middle	5785	MCS8	Default
		High	5825	MCS8	Default
	802.11n ht40	Low	5755	MCS8	Default
		High	5795	MCS8	Default
	802.11ac vht80	Middle	5775	MCS8	Default

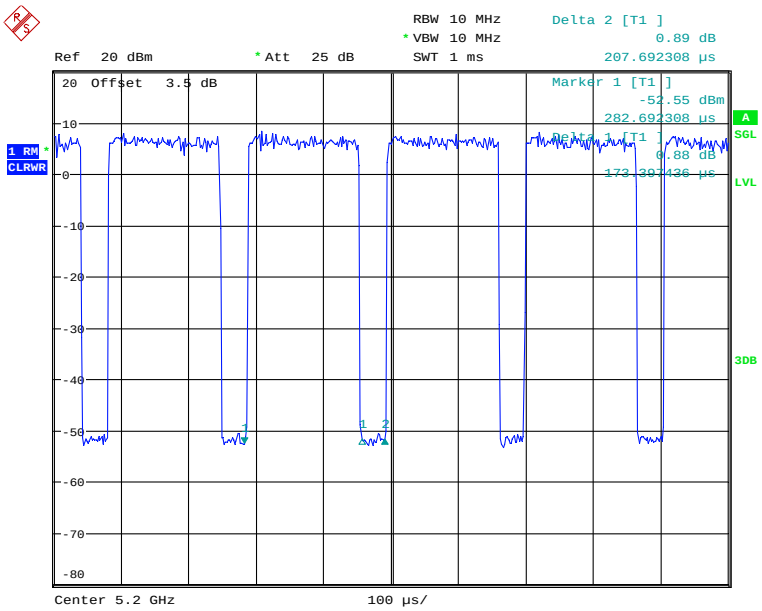
The duty cycle as below:

Mode	T_{on} (ms)	T_{on+off} (ms)	Duty Cycle (%)
802.11 a	0.185	0.217	85.25
802.11n ht20	0.173	0.208	83.17
802.11n ht40	0.173	0.206	83.98
802.11ac vht80	0.070	0.106	66.04

802.11a



802.11n ht20



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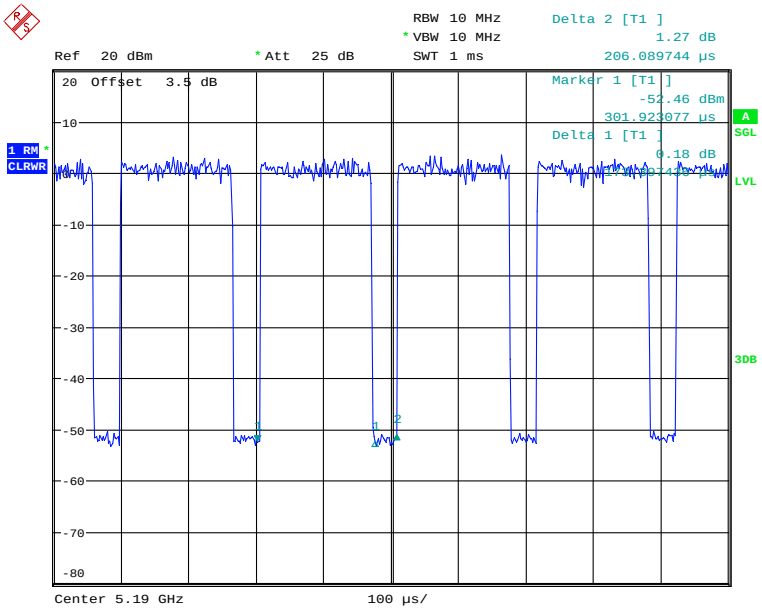
802.11n ht40



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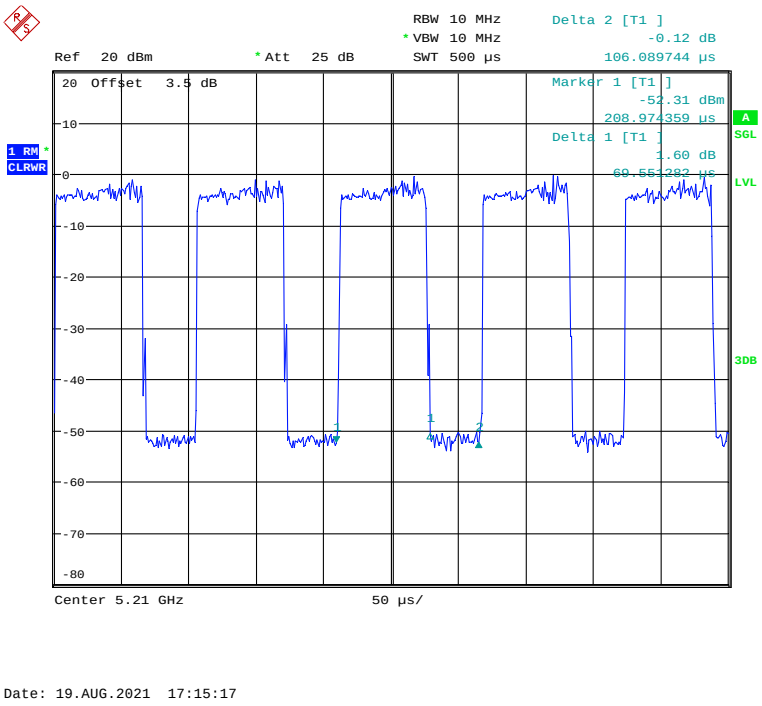
802.11ac vht80



Equipment Modifications

No modification was made to the EUT.

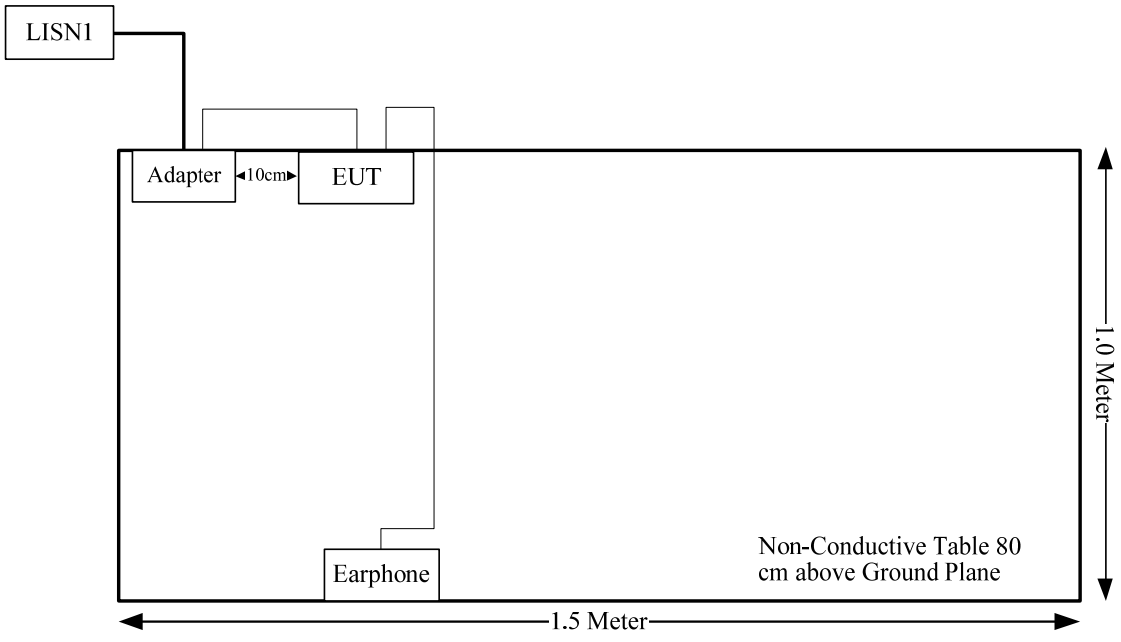
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Un-known	Earphone	Un-known	Earphone-1
Un-known	Adapter	HW-050200C3W	H333L5F4M06947

Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
USB Cable	No	No	1.2	USB port of Adapter	EUT

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

Rules	Description of Test	Result
FCC §15.407 (f) & §1.1310 & §2.1093	RF Exposure	Compliance
FCC§15.203	Antenna Requirement	Compliance
FCC§15.407(b)(6)& §15.207(a)	Conducted Emissions	Compliance
FCC§15.205& §15.209 &§15.407(b)	Undesirable Emission& Restricted Bands	Compliance
FCC§15.407(b)	Out Of Band Emissions	Compliance
FCC§15.407(a) (e)	Emission Bandwidth	Compliance
FCC§15.407(a)	Conducted Transmitter Output Power	Compliance
FCC§15.407 (a)	Power Spectral Density	Compliance

FCC §15.247 (i) & §1.1310 & §2.1093- RF EXPOSURE

Applicable Standard

According to§15.247(i) and §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Measurement Result

Result: Compliance.

Please refer to the SAR report: DG2210722-30456E-20A

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

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

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

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

Antenna Connector Construction

The EUT has two internal antenna arrangement, fulfill the requirement of this section. Please refer to below information and the EUT photos:

Radio	Antenna Type	input impedance (Ohm)	Antenna Gain /Frequency Range
Bluetooth/BLE	LDS	50	-3.0 dBi/2.4~2.5GHz
Wi-Fi	FPC	50	-3.0 dBi/2.4~2.5GHz -3.0 dBi/5.15~5.85GHz

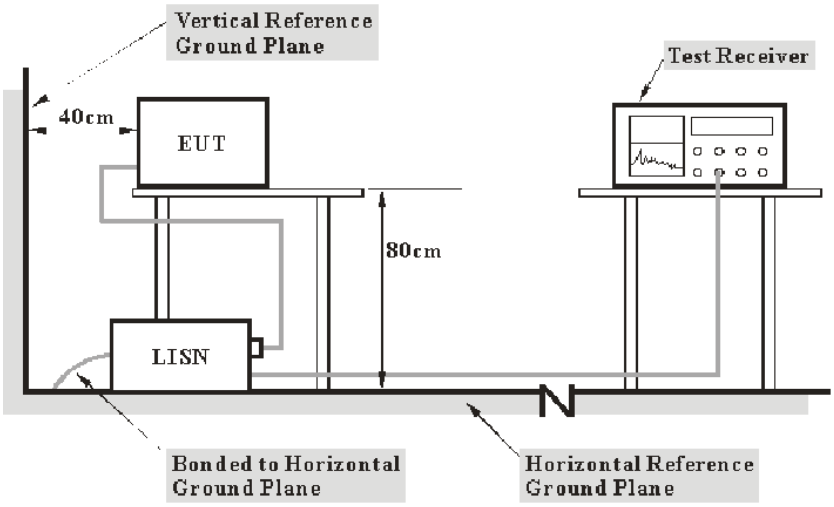
Result: Compliance.

FCC §15.207(a)– CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a), §15.407(b) (6).

EUT Setup



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

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

EMI Test Receiver Setup

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

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

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

Corrected Amplitude & Margin Calculation

The basic equation is as follows:

$V_C = V_R + A_C + VDF$
$C_f = A_C + VDF$

Herein,
V_C (cord. Reading): corrected voltage amplitude
V_R: reading voltage amplitude
A_c: attenuation caused by cable loss
VDF: voltage division Factor of AMN
C_f: Correction Factor

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

Margin = Limit – Corrected Amplitude

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV 216	101614	2020-09-12	2021-09-12
R&S	EMI Test Receiver	ESCI	101121	2021-07-06	2022-07-05
MICRO-COAX	Coaxial Cable	C-NJNJ-50	C-0200-01	2020-09-05	2021-09-05
R&S	Test Software	EMC32	Version 9.10.00	N/A	N/A

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

Test Procedure

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

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

Test Data

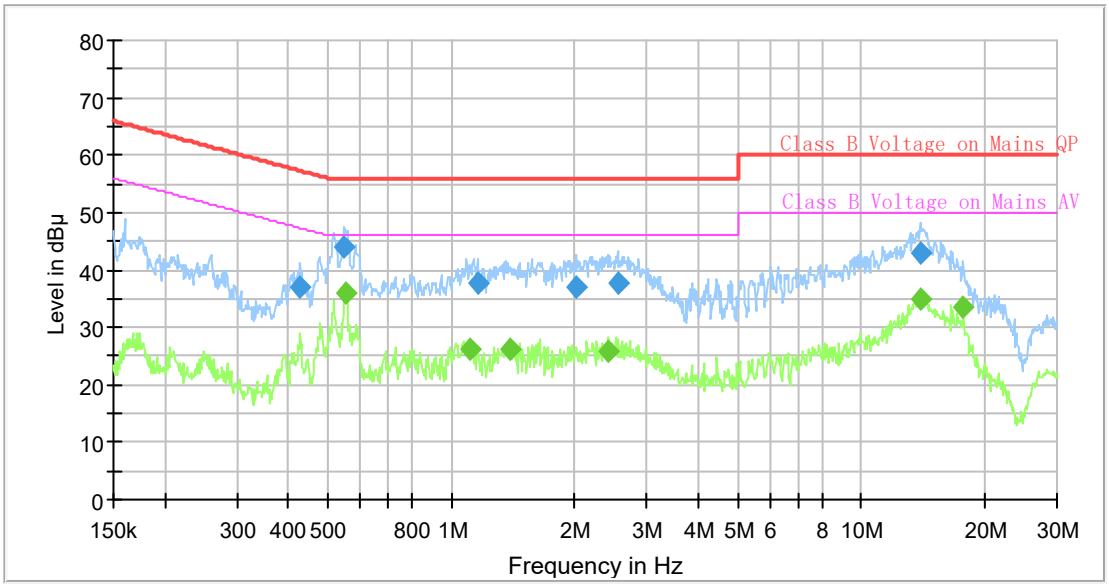
Environmental Conditions

Temperature:	26.1 °C
Relative Humidity:	69 %
ATM Pressure:	100 kPa
Tester:	Mia Huang
Test Date:	2021-07-29

Test Result: Compliance.

Test Mode: Transmitting (802.11a 5200MHz was the worst)

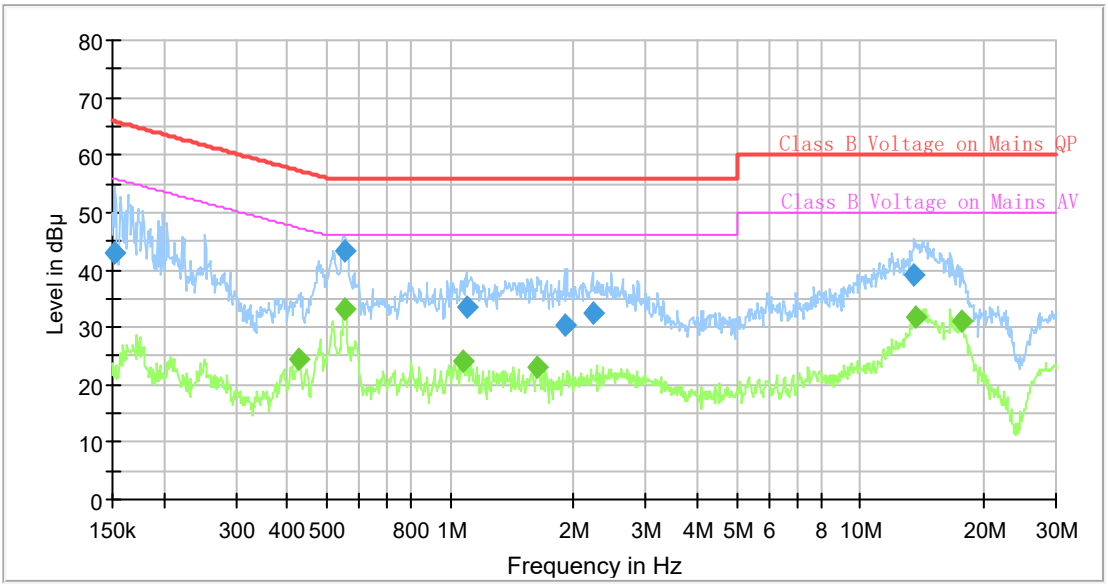
AC120 V, 60 Hz, Line:



Final_Result

Frequency (MHz)	QuasiPeak (dB µV)	Average (dB µV)	Limit (dB µV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.427528	37.05	---	57.30	20.25	9.000	L1	9.6
0.548615	44.01	---	56.00	11.99	9.000	L1	9.6
0.554114	---	35.98	46.00	10.02	9.000	L1	9.6
1.113905	---	26.25	46.00	19.75	9.000	L1	9.7
1.159249	37.56	---	56.00	18.44	9.000	L1	9.7
1.394186	---	26.25	46.00	19.75	9.000	L1	9.7
2.016552	37.03	---	56.00	18.97	9.000	L1	9.7
2.425234	---	25.97	46.00	20.03	9.000	L1	9.7
2.549261	37.70	---	56.00	18.30	9.000	L1	9.7
13.965015	---	34.90	50.00	15.10	9.000	L1	10.1
13.965015	43.05	---	60.00	16.95	9.000	L1	10.1
17.742400	---	33.51	50.00	16.49	9.000	L1	10.1

AC120 V, 60 Hz, Neutral:



Final_Result

Frequency (MHz)	QuasiPeak (dB µ V)	Average (dB µ V)	Limit (dB µ V)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.152261	42.88	---	65.88	23.00	9.000	N	9.6
0.425401	---	24.49	47.34	22.85	9.000	N	9.6
0.551358	43.27	---	56.00	12.73	9.000	N	9.6
0.554114	---	33.17	46.00	12.83	9.000	N	9.6
1.070335	---	24.22	46.00	21.78	9.000	N	9.6
1.097362	33.40	---	56.00	22.60	9.000	N	9.6
1.635441	---	23.01	46.00	22.99	9.000	N	9.6
1.899401	30.56	---	56.00	25.44	9.000	N	9.6
2.228079	32.43	---	56.00	23.57	9.000	N	9.6
13.553299	39.09	---	60.00	20.91	9.000	N	9.8
13.621066	---	31.89	50.00	18.11	9.000	N	9.8
17.742400	---	31.11	50.00	18.89	9.000	N	9.9

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

Applicable Standard

FCC §15.407; §15.209; §15.205;

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

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

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

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

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

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

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

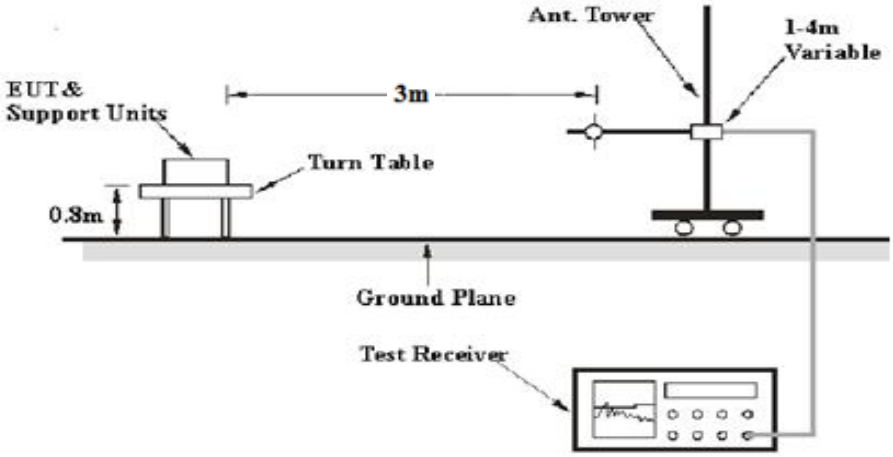
(5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

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

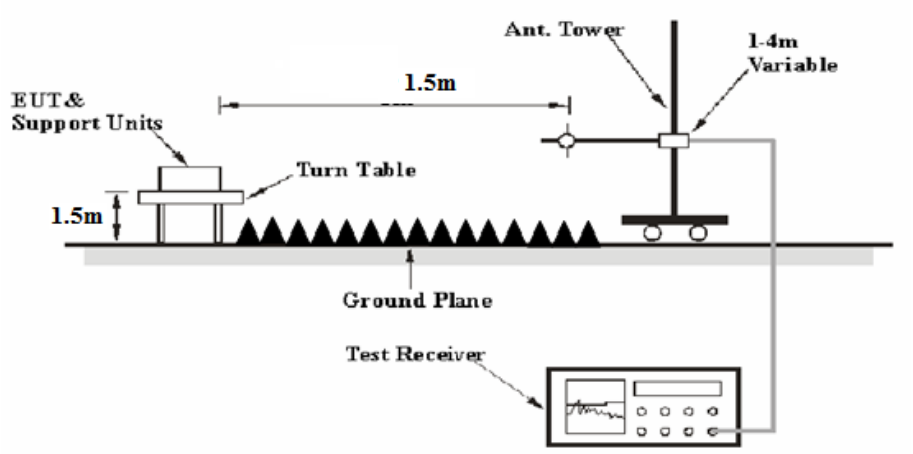
(7) The provisions of §15.205 apply to intentional radiators operating under this section.

EUT Setup

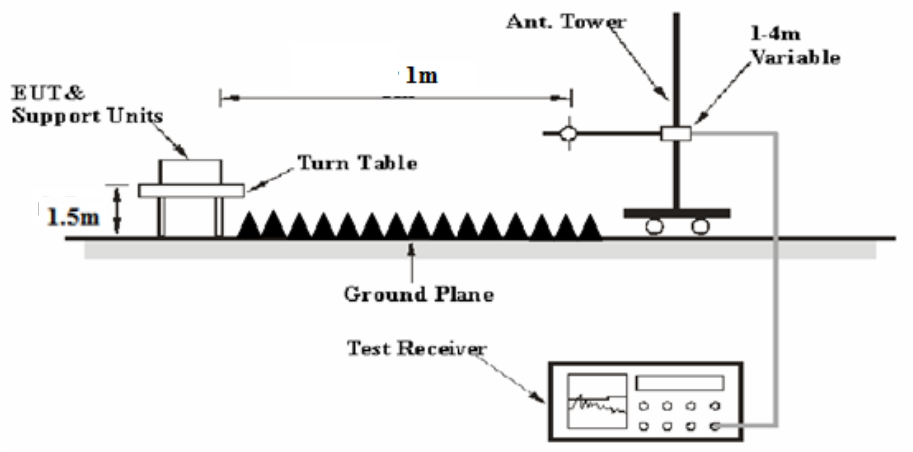
Below 1 GHz:



1-26.5 GHz:



26.5-40 GHz:



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

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

The spacing between the peripherals was 10 cm.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 40 GHz.

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

30-1000MHz:

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

1GHz- 40GHz:

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

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

Test Procedure

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

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

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

According to C63.10, the above 1G test result shall be extrapolated to the specified distance using an extrapolation Factor of 20dB/decade from 3m to 1.5m or 1m
Distance extrapolation Factor =20 log (specific distance [3m]/test distance [1.5m]) dB= 6.02 dB
or
Distance extrapolation Factor =20 log (specific distance [3m]/test distance [1m]) dB= 9.54 dB

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

Corrected Amplitude & Margin Calculation

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

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

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

Margin = Limit - Corrected Amplitude

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

Corrected Amplitude
= Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain-Distance extrapolation factor

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

Margin = Limit- Corrected Amplitude

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiation Below 1GHz Test					
Sunol Sciences	Antenna	JB3	A060611-1	2020-11-10	2023-11-10
R&S	EMI Test Receiver	ESR3	102453	2020-09-12	2021-09-12
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2020-09-05	2021-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2020-09-05	2021-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-1400-01	2021-05-06	2022-05-05
Sonoma	Amplifier	310N	372193	2021-07-18	2022-07-17
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A
Radiation Above 1GHz Test					
ETS-Lindgren	Horn Antenna	3115	000 527 35	2018-10-12	2021-10-12
Ducommun Technolagies	Horn Antenna	ARH-4223-02	1007726-01 1304	2020-12-05	2023-12-04
Ducommun Technolagies	Horn Antenna	ARH-2823-02	1007726-01 1302	2020-12-05	2023-12-04
R&S	Spectrum Analyzer	FSV40	101474	2021-07-22	2022-07-21
Agilent	Spectrum Analyzer	E4440A	SG43360054	2021-07-22	2022-07-21
Unknown	Coaxial Cable	C-SJSJ-50	C-0800-01	2020-09-05	2021-09-05
Unknown	Coaxial Cable	C-2.4J2.4J-50	C-0700-02	2021-06-27	2022-06-26
Mini-Circuit	Amplifier	ZVA-213-S+	54201245	2020-09-05	2021-09-05
Quinstar	Amplifier	QLW-18405536-JO	15964001001	2021-06-27	2022-06-26
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A
Sinoscite	Bandstop Filters	BSF5150-5850MN-0899-003	0899003	2021-05-06	2022-05-05
Mini Circuits	High Pass Filter	VHF-6010+	31118	2021-06-16	2022-06-15

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

Test Data

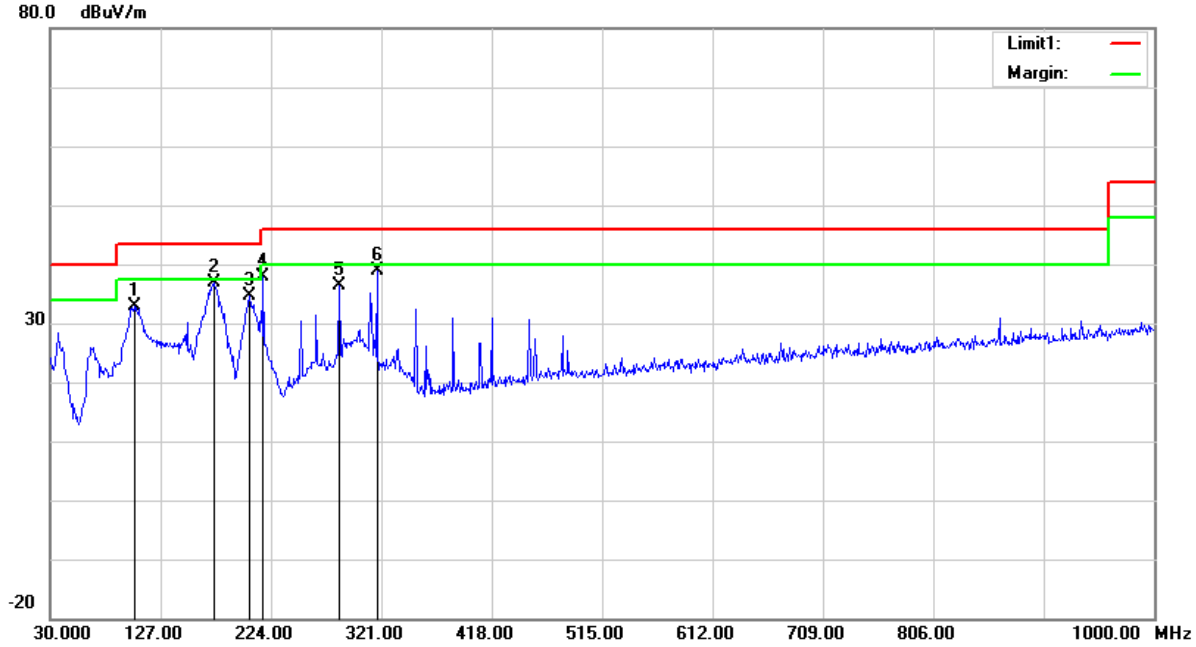
Environmental Conditions

Test Items	Radiation Below 1GHz	Radiation Above 1GHz
Temperature:	26.7°C	27.9 °C
Relative Humidity:	40 %	51 %
ATM Pressure:	99.5kPa	99.9kPa
Tester:	Joker Chen	Lee Li
Test Date:	2021-08-06	2021-08-09

Test Mode: Transmitting

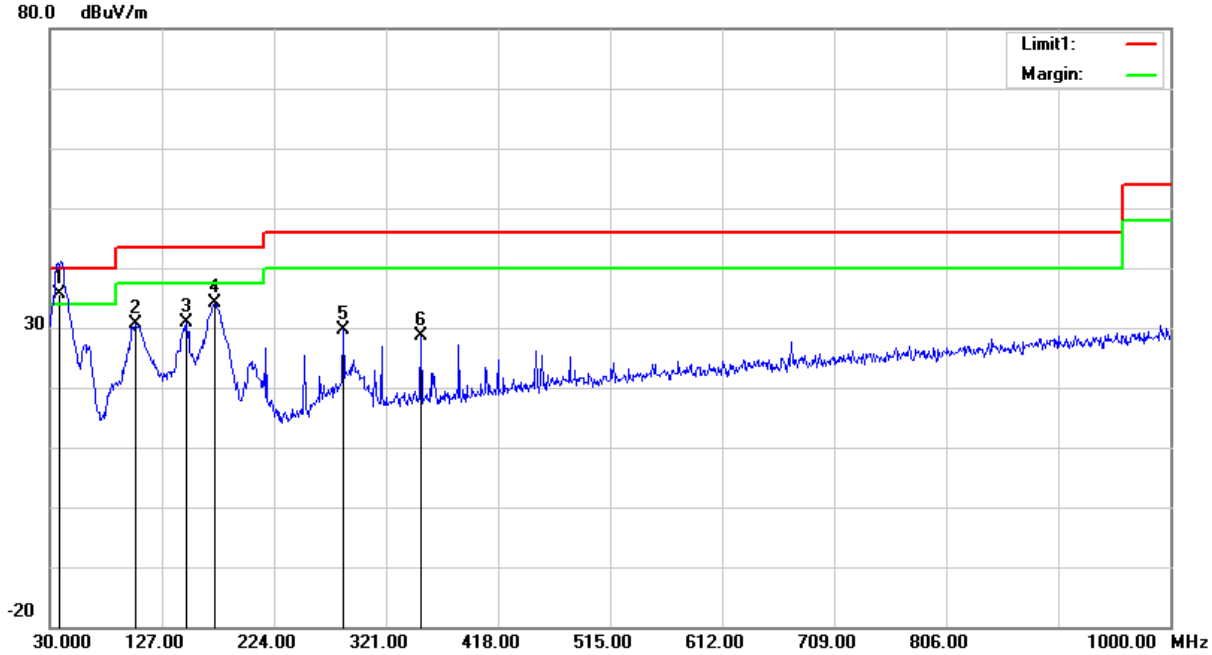
1) Below 1GHz(802.11a 5745 MHz was the worst):

Horizontal:



Frequency (MHz)	Receiver Reading (dBµV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
103.7200	46.43	peak	-13.48	32.95	43.50	10.55
173.5600	50.03	peak	-13.12	36.91	43.50	6.59
204.6000	47.56	peak	-12.96	34.60	43.50	8.90
217.2100	51.57	peak	-13.72	37.85	46.00	8.15
284.1400	46.87	peak	-10.54	36.33	46.00	9.67
317.1200	48.98	peak	-10.00	38.98	46.00	7.02

Vertical:



Frequency (MHz)	Receiver Reading (dBµV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
38.2500	45.46	QP	-9.78	35.68	40.00	4.32
103.7200	44.12	peak	-13.48	30.64	43.50	12.86
148.3400	42.93	peak	-11.99	30.94	43.50	12.56
172.5900	47.20	peak	-13.07	34.13	43.50	9.37
284.1400	40.27	peak	-10.54	29.73	46.00	16.27
351.0700	37.92	peak	-9.35	28.57	46.00	17.43

2) 1GHz-40GHz:
5150-5250MHz
802.11a

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBµV/m)	Extrapolation result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)						
Low Channel: 5180 MHz										
5180.00	69.87	PK	H	33.59	3.58	0.00	107.04	101.02	N/A	N/A
5180.00	61.21	AV	H	33.59	3.58	0.00	98.38	92.36	N/A	N/A
5180.00	67.28	PK	V	33.59	3.58	0.00	104.45	98.43	N/A	N/A
5180.00	58.64	AV	V	33.59	3.58	0.00	95.81	89.79	N/A	N/A
5150.00	32.72	PK	H	33.54	3.56	0.00	69.82	63.8	74.00	10.20
5150.00	19.32	AV	H	33.54	3.56	0.00	56.42	50.4	54.00	3.60
10360.00	34.85	PK	H	38.17	6.29	25.46	53.85	47.83	68.20	20.37
15540.00	34.26	PK	H	38.06	8.85	24.27	56.90	50.88	74.00	23.12
15540.00	22.36	AV	H	38.06	8.85	24.27	45.00	38.98	54.00	15.02
Middle Channel: 5200 MHz										
5200.00	70.13	PK	H	33.62	3.60	0.00	107.35	101.33	N/A	N/A
5200.00	62.07	AV	H	33.62	3.60	0.00	99.29	93.27	N/A	N/A
5200.00	67.25	PK	V	33.62	3.60	0.00	104.47	98.45	N/A	N/A
5200.00	58.03	AV	V	33.62	3.60	0.00	95.25	89.23	N/A	N/A
10400.00	35.54	PK	H	38.18	6.32	25.46	54.58	48.56	68.20	19.64
15600.00	34.47	PK	H	38.00	8.83	24.31	56.99	50.97	74.00	23.03
15600.00	22.63	AV	H	38.00	8.83	24.31	45.15	39.13	54.00	14.87
High Channel: 5240 MHz										
5240.00	69.86	PK	H	33.68	3.52	0.00	107.06	101.04	N/A	N/A
5240.00	60.51	AV	H	33.68	3.52	0.00	97.71	91.69	N/A	N/A
5240.00	66.94	PK	V	33.68	3.52	0.00	104.14	98.12	N/A	N/A
5240.00	57.40	AV	V	33.68	3.52	0.00	94.60	88.58	N/A	N/A
5350.00	27.11	PK	H	33.86	3.52	0.00	64.49	58.47	74.00	15.53
5350.00	15.83	AV	H	33.86	3.52	0.00	53.21	47.19	54.00	6.81
10480.00	35.41	PK	H	38.20	6.37	25.47	54.51	48.49	68.20	19.71
15720.00	34.39	PK	H	37.88	8.79	24.39	56.67	50.65	74.00	23.35
15720.00	22.58	AV	H	37.88	8.79	24.39	44.86	38.84	54.00	15.16

802.11n ht20:

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBµV/m)	Extrapolation result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)						
Low Channel: 5180 MHz										
5180.00	69.69	PK	H	33.59	3.58	0.00	106.86	100.84	N/A	N/A
5180.00	61.79	AV	H	33.59	3.58	0.00	98.96	92.94	N/A	N/A
5180.00	65.69	PK	V	33.59	3.58	0.00	102.86	96.84	N/A	N/A
5180.00	56.27	AV	V	33.59	3.58	0.00	93.44	87.42	N/A	N/A
5150.00	32.51	PK	H	33.54	3.56	0.00	69.61	63.59	74.00	10.41
5150.00	18.53	AV	H	33.54	3.56	0.00	55.63	49.61	54.00	4.39
10360.00	35.37	PK	H	38.17	6.29	25.46	54.37	48.35	68.20	19.85
15540.00	34.42	PK	H	38.06	8.85	24.27	57.06	51.04	74.00	22.96
15540.00	22.63	AV	H	38.06	8.85	24.27	45.27	39.25	54.00	14.75
Middle Channel: 5200 MHz										
5200.00	69.28	PK	H	33.62	3.60	0.00	106.50	100.48	N/A	N/A
5200.00	60.93	AV	H	33.62	3.60	0.00	98.15	92.13	N/A	N/A
5200.00	66.79	PK	V	33.62	3.60	0.00	104.01	97.99	N/A	N/A
5200.00	57.04	AV	V	33.62	3.60	0.00	94.26	88.24	N/A	N/A
10400.00	35.25	PK	H	38.18	6.32	25.46	54.29	48.27	68.20	19.93
15600.00	34.36	PK	H	38.00	8.83	24.31	56.88	50.86	74.00	23.14
15600.00	22.54	AV	H	38.00	8.83	24.31	45.06	39.04	54.00	14.96
High Channel: 5240 MHz										
5240.00	70.49	PK	H	33.68	3.52	0.00	107.69	101.67	N/A	N/A
5240.00	61.80	AV	H	33.68	3.52	0.00	99.00	92.98	N/A	N/A
5240.00	65.87	PK	V	33.68	3.52	0.00	103.07	97.05	N/A	N/A
5240.00	57.77	AV	V	33.68	3.52	0.00	94.97	88.95	N/A	N/A
5350.00	26.34	PK	H	33.86	3.52	0.00	63.72	57.7	74.00	16.30
5350.00	16.11	AV	H	33.86	3.52	0.00	53.49	47.47	54.00	6.53
10480.00	35.23	PK	H	38.20	6.37	25.47	54.33	48.31	68.20	19.89
15720.00	34.46	PK	H	37.88	8.79	24.39	56.74	50.72	74.00	23.28
15720.00	22.61	AV	H	37.88	8.79	24.39	44.89	38.87	54.00	15.13

802.11n ht40:

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBµV/m)	Extrapolation result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)						
Low Channel: 5190 MHz										
5190.00	66.87	PK	H	33.60	3.59	0.00	104.06	98.04	N/A	N/A
5190.00	59.69	AV	H	33.60	3.59	0.00	96.88	90.86	N/A	N/A
5190.00	64.84	PK	V	33.60	3.59	0.00	102.03	96.01	N/A	N/A
5190.00	56.36	AV	V	33.60	3.59	0.00	93.55	87.53	N/A	N/A
5150.00	32.86	PK	H	33.54	3.56	0.00	69.96	63.94	74.00	10.06
5150.00	21.64	AV	H	33.54	3.56	0.00	58.74	52.72	54.00	1.28
10380.00	35.61	PK	H	38.18	6.31	25.46	54.64	48.62	68.20	19.58
15570.00	34.87	PK	H	38.03	8.84	24.29	57.45	51.43	74.00	22.57
15570.00	22.91	AV	H	38.03	8.84	24.29	45.49	39.47	54.00	14.53
High Channel: 5230 MHz										
5230.00	66.22	PK	H	33.67	3.54	0.00	103.43	97.41	N/A	N/A
5230.00	58.83	AV	H	33.67	3.54	0.00	96.04	90.02	N/A	N/A
5230.00	63.34	PK	V	33.67	3.54	0.00	100.55	94.53	N/A	N/A
5230.00	55.21	AV	V	33.67	3.54	0.00	92.42	86.4	N/A	N/A
5350.00	26.11	PK	H	33.86	3.52	0.00	63.49	57.47	74.00	16.53
5350.00	17.32	AV	H	33.86	3.52	0.00	54.70	48.68	54.00	5.32
10460.00	35.47	PK	H	38.19	6.36	25.47	54.55	48.53	68.20	19.67
15690.00	34.56	PK	H	37.91	8.80	24.37	56.90	50.88	74.00	23.12
15690.00	22.58	AV	H	37.91	8.80	24.37	44.92	38.9	54.00	15.10

802.11ac vht80:

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (Db)	Amplifier Gain (Db)	Corrected Amplitude (dBμV/m)	Extrapolation result (dBμV/m)	Limit (dBμV/m)	Margin (Db)
	Reading (dBμV)	Detector	Polar (H/V)	Factor (Db/m)						
Middle Channel: 5210 MHz										
5210.00	63.15	PK	H	33.64	3.58	0.00	100.37	94.35	N/A	N/A
5210.00	54.21	AV	H	33.64	3.58	0.00	91.43	85.41	N/A	N/A
5210.00	60.25	PK	V	33.64	3.58	0.00	97.47	91.45	N/A	N/A
5210.00	51.24	AV	V	33.64	3.58	0.00	88.46	82.44	N/A	N/A
5150.00	27.45	PK	H	33.54	3.56	0.00	64.55	58.53	74.00	15.47
5150.00	18.56	AV	H	33.54	3.56	0.00	55.66	49.64	54.00	4.36
5350.00	25.62	PK	H	33.86	3.52	0.00	63.00	56.98	74.00	17.02
5350.00	17.27	AV	H	33.86	3.52	0.00	54.65	48.63	54.00	5.37
10420.00	34.25	PK	H	38.18	6.33	25.47	53.29	47.27	68.20	20.93
15630.00	34.62	PK	H	37.97	8.82	24.33	57.08	51.06	74.00	22.94
15630.00	22.18	AV	H	37.97	8.82	24.33	44.64	38.62	54.00	15.38

5250-5350MHz:
802.11a:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Extrapolation result	Limit	Margin
	Reading	Detector	Polar	Factor						
MHz	dBµV	PK/QP/AV	H/V	dB/m	dB	dB	dBµV/m	dBµV/m	dBµV/m	dB
Low Channel: 5260 MHz										
5260.00	68.29	PK	H	33.72	3.49	0.00	105.50	99.48	N/A	N/A
5260.00	60.53	AV	H	33.72	3.49	0.00	97.74	91.72	N/A	N/A
5260.00	66.99	PK	V	33.72	3.49	0.00	104.20	98.18	N/A	N/A
5260.00	58.34	AV	V	33.72	3.49	0.00	95.55	89.53	N/A	N/A
5150.00	28.30	PK	H	33.54	3.56	0.00	65.40	59.38	74.00	14.62
5150.00	17.38	AV	H	33.54	3.56	0.00	54.48	48.46	54.00	5.54
10520.00	25.31	PK	H	38.21	6.39	25.47	44.44	38.42	68.20	29.78
15780.00	36.02	PK	H	37.82	8.76	24.42	58.18	52.16	74.00	21.84
15780.00	25.63	AV	H	37.82	8.76	24.42	47.79	41.77	54.00	12.23
Middle Channel: 5280 MHz										
5280.00	69.96	PK	H	33.75	3.45	0.00	107.16	101.14	N/A	N/A
5280.00	62.20	AV	H	33.75	3.45	0.00	99.40	93.38	N/A	N/A
5280.00	66.92	PK	V	33.75	3.45	0.00	104.12	98.1	N/A	N/A
5280.00	58.43	AV	V	33.75	3.45	0.00	95.63	89.61	N/A	N/A
10560.00	34.68	PK	H	38.24	6.40	25.47	53.85	47.83	68.20	20.37
15840.00	35.94	PK	H	37.76	8.74	24.46	57.98	51.96	74.00	22.04
15840.00	24.89	AV	H	37.76	8.74	24.46	46.93	40.91	54.00	13.09
High Channel: 5320 MHz										
5320.00	71.66	PK	H	33.81	3.45	0.00	108.92	102.9	N/A	N/A
5320.00	63.03	AV	H	33.81	3.45	0.00	100.29	94.27	N/A	N/A
5320.00	65.73	PK	V	33.81	3.45	0.00	102.99	96.97	N/A	N/A
5320.00	57.69	AV	V	33.81	3.45	0.00	94.95	88.93	N/A	N/A
5350.00	29.96	PK	H	33.86	3.52	0.00	67.34	61.32	74.00	12.68
5350.00	18.28	AV	H	33.86	3.52	0.00	55.66	49.64	54.00	4.36
10640.00	34.96	PK	H	38.28	6.43	25.46	54.21	48.19	74.00	25.81
10640.00	24.91	AV	H	38.28	6.43	25.46	44.16	38.14	54.00	15.86
15960.00	35.90	PK	H	37.64	8.70	24.54	57.70	51.68	74.00	22.32
15960.00	25.63	AV	H	37.64	8.70	24.54	47.43	41.41	54.00	12.59

802.11n ht20:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Extrapolation result	Limit	Margin
	Reading	Detector	Polar	Factor						
MHz	dBµV	PK/QP/AV	H/V	dB/m	dB	dB	dBµV/m	dBµV/m	dBµV/m	dB
Low Channel: 5260 MHz										
5260.00	71.30	PK	H	33.72	3.49	0.00	108.51	102.49	N/A	N/A
5260.00	62.54	AV	H	33.72	3.49	0.00	99.75	93.73	N/A	N/A
5260.00	66.35	PK	V	33.72	3.49	0.00	103.56	97.54	N/A	N/A
5260.00	57.96	AV	V	33.72	3.49	0.00	95.17	89.15	N/A	N/A
5150.00	27.85	PK	H	33.54	3.56	0.00	64.95	58.93	74.00	15.07
5150.00	17.44	AV	H	33.54	3.56	0.00	54.54	48.52	54.00	5.48
10520.00	35.54	PK	H	38.21	6.39	25.47	54.67	48.65	68.20	19.55
15780.00	35.67	PK	H	37.82	8.76	24.42	57.83	51.81	74.00	22.19
15780.00	25.01	AV	H	37.82	8.76	24.42	47.17	41.15	54.00	12.85
Middle Channel: 5280 MHz										
5280.00	70.64	PK	H	33.75	3.45	0.00	107.84	101.82	N/A	N/A
5280.00	61.42	AV	H	33.75	3.45	0.00	98.62	92.6	N/A	N/A
5280.00	66.15	PK	V	33.75	3.45	0.00	103.35	97.33	N/A	N/A
5280.00	57.08	AV	V	33.75	3.45	0.00	94.28	88.26	N/A	N/A
10560.00	35.71	PK	H	38.24	6.40	25.47	54.88	48.86	68.20	19.34
15840.00	35.86	PK	H	37.76	8.74	24.46	57.90	51.88	74.00	22.12
15840.00	25.22	AV	H	37.76	8.74	24.46	47.26	41.24	54.00	12.76
High Channel: 5320 MHz										
5320.00	70.45	PK	H	33.81	3.45	0.00	107.71	101.69	N/A	N/A
5320.00	61.29	AV	H	33.81	3.45	0.00	98.55	92.53	N/A	N/A
5320.00	65.96	PK	V	33.81	3.45	0.00	103.22	97.2	N/A	N/A
5320.00	56.89	AV	V	33.81	3.45	0.00	94.15	88.13	N/A	N/A
5350.00	30.47	PK	H	33.86	3.52	0.00	67.85	61.83	74.00	12.17
5350.00	17.84	AV	H	33.86	3.52	0.00	55.22	49.2	54.00	4.80
10640.00	35.25	PK	H	38.28	6.43	25.46	54.50	48.48	74.00	25.52
10640.00	24.57	AV	H	38.28	6.43	25.46	43.82	37.8	54.00	16.20
15960.00	35.97	PK	H	37.64	8.70	24.54	57.77	51.75	74.00	22.25
15960.00	25.27	AV	H	37.64	8.70	24.54	47.07	41.05	54.00	12.95

802.11n ht40:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Extrapolation result	Limit	Margin
	Reading	Detector	Polar	Factor						
MHz	dBµV	PK/QP/AV	H/V	dB/m	dB	dB	dBµV/m	dBµV/m	dBµV/m	dB
Low Channel: 5270 MHz										
5270.00	67.66	PK	H	33.73	3.47	0.00	104.86	98.84	N/A	N/A
5270.00	58.21	AV	H	33.73	3.47	0.00	95.41	89.39	N/A	N/A
5270.00	62.35	PK	V	33.73	3.47	0.00	99.55	93.53	N/A	N/A
5270.00	53.27	AV	V	33.73	3.47	0.00	90.47	84.45	N/A	N/A
5150.00	27.75	PK	H	33.54	3.56	0.00	64.85	58.83	74.00	15.17
5150.00	17.41	AV	H	33.54	3.56	0.00	54.51	48.49	54.00	5.51
10540.00	34.28	PK	H	38.22	6.40	25.47	53.43	47.41	68.20	20.79
15810.00	35.63	PK	H	37.79	8.75	24.44	57.73	51.71	74.00	22.29
15810.00	25.64	AV	H	37.79	8.75	24.44	47.74	41.72	54.00	12.28
High Channel: 5310 MHz										
5310.00	67.43	PK	H	33.80	3.43	0.00	104.66	98.64	N/A	N/A
5310.00	58.63	AV	H	33.80	3.43	0.00	95.86	89.84	N/A	N/A
5310.00	62.52	PK	V	33.80	3.43	0.00	99.75	93.73	N/A	N/A
5310.00	53.17	AV	V	33.80	3.43	0.00	90.40	84.38	N/A	N/A
5350.00	34.50	PK	H	33.86	3.52	0.00	71.88	65.86	74.00	8.14
5350.00	21.36	AV	H	33.86	3.52	0.00	58.74	52.72	54.00	1.28
10620.00	34.62	PK	H	38.27	6.43	25.47	53.85	47.83	74.00	26.17
10620.00	24.78	AV	H	38.27	6.43	25.47	44.01	37.99	54.00	16.01
15930.00	35.49	PK	H	37.67	8.71	24.52	57.35	51.33	74.00	22.67
15930.00	25.19	AV	H	37.67	8.71	24.52	47.05	41.03	54.00	12.97

802.11ac vht80:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Extrapolation result	Limit	Margin
	Reading	Detector	Polar	Factor						
MHz	dBµV	PK/QP/AV	H/V	dB/m	dB	dB	dBµV/m	dBµV/m	dBµV/m	dB
Low Channel: 5290 MHz										
5290.00	62.13	PK	H	33.76	3.43	0.00	99.32	93.3	N/A	N/A
5290.00	52.49	AV	H	33.76	3.43	0.00	89.68	83.66	N/A	N/A
5290.00	57.39	PK	V	33.76	3.43	0.00	94.58	88.56	N/A	N/A
5290.00	47.62	AV	V	33.76	3.43	0.00	84.81	78.79	N/A	N/A
5150.00	27.71	PK	H	33.54	3.56	0.00	64.81	58.79	74.00	15.21
5150.00	18.20	AV	H	33.54	3.56	0.00	55.30	49.28	54.00	4.72
5350.00	27.69	PK	H	33.86	3.52	0.00	65.07	59.05	74.00	14.95
5350.00	18.47	AV	H	33.86	3.52	0.00	55.85	49.83	54.00	4.17
10580.00	35.22	PK	H	38.25	6.41	25.47	54.41	48.39	68.20	19.81
15870.00	35.68	PK	H	37.73	8.73	24.48	57.66	51.64	74.00	22.36
15870.00	25.61	AV	H	37.73	8.73	24.48	47.59	41.57	54.00	12.43

5470-5725 MHz:
802.11a:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Extrapolation result	Limit	Margin
	Reading	Detector	Polar	Factor						
MHz	dBµV	PK/QP/AV	H/V	dB/m	dB	dB	dBµV/m	dBµV/m	dBµV/m	dB
Low Channel: 5500 MHz										
5500.00	70.01	PK	H	34.10	3.54	0.00	107.65	101.63	N/A	N/A
5500.00	61.41	AV	H	34.10	3.54	0.00	99.05	93.03	N/A	N/A
5500.00	68.99	PK	V	34.10	3.54	0.00	106.63	100.61	N/A	N/A
5500.00	59.69	AV	V	34.10	3.54	0.00	97.33	91.31	N/A	N/A
5470.00	30.14	PK	H	34.05	3.56	0.00	67.75	61.73	68.20	6.47
11000.00	35.52	PK	H	38.50	6.57	25.45	55.14	49.12	74.00	24.88
11000.00	25.31	AV	H	38.50	6.57	25.45	44.93	38.91	54.00	15.09
16500.00	36.06	PK	H	38.20	8.63	24.27	58.62	52.6	68.20	15.60
Middle Channel: 5580 MHz										
5580.00	69.69	PK	H	34.13	3.56	0.00	107.38	101.36	N/A	N/A
5580.00	61.06	AV	H	34.13	3.56	0.00	98.75	92.73	N/A	N/A
5580.00	68.62	PK	V	34.13	3.56	0.00	106.31	100.29	N/A	N/A
5580.00	59.34	AV	V	34.13	3.56	0.00	97.03	91.01	N/A	N/A
11160.00	35.25	PK	H	38.66	6.58	25.47	55.02	49	74.00	25.00
11160.00	25.08	AV	H	38.66	6.58	25.47	44.85	38.83	54.00	15.17
16740.00	35.83	PK	H	39.16	8.67	24.12	59.54	53.52	68.20	14.68
High Channel: 5700 MHz										
5700.00	70.32	PK	H	34.18	3.68	0.00	108.18	102.16	N/A	N/A
5700.00	61.08	AV	H	34.18	3.68	0.00	98.94	92.92	N/A	N/A
5700.00	69.03	PK	V	34.18	3.68	0.00	106.89	100.87	N/A	N/A
5700.00	60.35	AV	V	34.18	3.68	0.00	98.21	92.19	N/A	N/A
5725.00	32.93	PK	H	34.19	3.69	0.00	70.81	64.79	68.20	3.41
11400.00	35.62	PK	H	38.90	6.59	25.50	55.61	49.59	74.00	24.41
11400.00	25.43	AV	H	38.90	6.59	25.50	45.42	39.4	54.00	14.60
17100.00	36.21	PK	H	40.78	8.75	23.85	61.89	55.87	68.20	12.33

802.11n ht20:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Extrapolation result	Limit	Margin
	Reading	Detector	Polar	Factor						
MHz	dBµV	PK/QP/AV	H/V	dB/m	dB	dB	dBµV/m	dBµV/m	dBµV/m	dB
Low Channel: 5500 MHz										
5500.00	69.23	PK	H	34.10	3.54	0.00	106.87	100.85	N/A	N/A
5500.00	60.42	AV	H	34.10	3.54	0.00	98.06	92.04	N/A	N/A
5500.00	67.39	PK	V	34.10	3.54	0.00	105.03	99.01	N/A	N/A
5500.00	58.96	AV	V	34.10	3.54	0.00	96.60	90.58	N/A	N/A
5470.00	29.75	PK	H	34.05	3.56	0.00	67.36	61.34	68.20	6.86
11000.00	35.88	PK	H	38.50	6.57	25.45	55.50	49.48	74.00	24.52
11000.00	25.62	AV	H	38.50	6.57	25.45	45.24	39.22	54.00	14.78
16500.00	36.47	PK	H	38.20	8.63	24.27	59.03	53.01	68.20	15.19
Middle Channel: 5580 MHz										
5580.00	69.05	PK	H	34.13	3.56	0.00	106.74	100.72	N/A	N/A
5580.00	60.22	AV	H	34.13	3.56	0.00	97.91	91.89	N/A	N/A
5580.00	67.21	PK	V	34.13	3.56	0.00	104.90	98.88	N/A	N/A
5580.00	58.78	AV	V	34.13	3.56	0.00	96.47	90.45	N/A	N/A
11160.00	35.36	PK	H	38.66	6.58	25.47	55.13	49.11	74.00	24.89
11160.00	25.17	AV	H	38.66	6.58	25.47	44.94	38.92	54.00	15.08
16740.00	35.97	PK	H	39.16	8.67	24.12	59.68	53.66	68.20	14.54
High Channel: 5700 MHz										
5700.00	69.35	PK	H	34.18	3.68	0.00	107.21	101.19	N/A	N/A
5700.00	60.07	AV	H	34.18	3.68	0.00	97.93	91.91	N/A	N/A
5700.00	67.52	PK	V	34.18	3.68	0.00	105.38	99.36	N/A	N/A
5700.00	58.32	AV	V	34.18	3.68	0.00	96.18	90.16	N/A	N/A
5725.00	31.95	PK	H	34.19	3.69	0.00	69.83	63.81	68.20	4.39
11400.00	35.51	PK	H	38.90	6.59	25.50	55.50	49.48	74.00	24.52
11400.00	25.31	AV	H	38.90	6.59	25.50	45.30	39.28	54.00	14.72
17100.00	36.09	PK	H	40.78	8.75	23.85	61.77	55.75	68.20	12.45

802.11n ht40:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Extrapolation result	Limit	Margin
	Reading	Detector	Polar	Factor						
MHz	dBµV	PK/QP/AV	H/V	dB/m	dB	dB	dBµV/m	dBµV/m	dBµV/m	dB
Low Channel: 5510 MHz										
5510.00	66.59	PK	H	34.10	3.54	0.00	104.23	98.21	N/A	N/A
5510.00	57.82	AV	H	34.10	3.54	0.00	95.46	89.44	N/A	N/A
5510.00	64.66	PK	V	34.10	3.54	0.00	102.30	96.28	N/A	N/A
5510.00	55.37	AV	V	34.10	3.54	0.00	93.01	86.99	N/A	N/A
5470.00	33.29	PK	H	34.05	3.56	0.00	70.90	64.88	68.20	3.32
11020.00	35.77	PK	H	38.52	6.57	25.45	55.41	49.39	74.00	24.61
11020.00	25.04	AV	H	38.52	6.57	25.45	44.68	38.66	54.00	15.34
16530.00	36.03	PK	H	38.32	8.64	24.25	58.74	52.72	68.20	15.48
Middle Channel: 5550 MHz										
5550.00	66.68	PK	H	34.12	3.56	0.00	104.36	98.34	N/A	N/A
5550.00	58.11	AV	H	34.12	3.56	0.00	95.79	89.77	N/A	N/A
5550.00	65.36	PK	V	34.12	3.56	0.00	103.04	97.02	N/A	N/A
5550.00	57.25	AV	V	34.12	3.56	0.00	94.93	88.91	N/A	N/A
11100.00	35.51	PK	H	38.60	6.57	25.46	55.22	49.2	74.00	24.80
11100.00	24.78	AV	H	38.60	6.57	25.46	44.49	38.47	54.00	15.53
16650.00	35.83	PK	H	38.80	8.66	24.17	59.12	53.1	68.20	15.10
High Channel: 5670 MHz										
5670.00	64.26	PK	H	34.17	3.65	0.00	102.08	96.06	N/A	N/A
5670.00	56.10	AV	H	34.17	3.65	0.00	93.92	87.9	N/A	N/A
5670.00	62.03	PK	V	34.17	3.65	0.00	99.85	93.83	N/A	N/A
5670.00	54.28	AV	V	34.17	3.65	0.00	92.10	86.08	N/A	N/A
5725.00	28.13	PK	H	34.19	3.69	0.00	66.01	59.99	68.20	8.21
11340.00	35.25	PK	H	38.84	6.58	25.49	55.18	49.16	74.00	24.84
11340.00	24.52	AV	H	38.84	6.58	25.49	44.45	38.43	54.00	15.57
17010.00	35.54	PK	H	40.26	8.72	23.94	60.58	54.56	68.20	13.64

802.11ac vht80:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Extrapolation result	Limit	Margin
	Reading	Detector	Polar	Factor						
MHz	dBµV	PK/QP/AV	H/V	dB/m	dB	dB	dBµV/m	dBµV/m	dBµV/m	dB
Low Channel: 5530 MHz										
5530.00	62.05	PK	H	34.11	3.55	0.00	99.71	93.69	N/A	N/A
5530.00	51.58	AV	H	34.11	3.55	0.00	89.24	83.22	N/A	N/A
5530.00	57.62	PK	V	34.11	3.55	0.00	95.28	89.26	N/A	N/A
5530.00	46.96	AV	V	34.11	3.55	0.00	84.62	78.6	N/A	N/A
5470.00	27.30	PK	H	34.05	3.56	0.00	64.91	58.89	68.20	9.31
11060.00	35.83	PK	H	38.56	6.57	25.46	55.50	49.48	74.00	24.52
11060.00	22.49	AV	H	38.56	6.57	25.46	42.16	36.14	54.00	17.86
16590.00	35.74	PK	H	38.56	8.65	24.21	58.74	52.72	68.20	15.48
High Channel: 5610 MHz										
5610.00	61.72	PK	H	34.14	3.58	0.00	99.44	93.42	N/A	N/A
5610.00	51.96	AV	H	34.14	3.58	0.00	89.68	83.66	N/A	N/A
5610.00	61.33	PK	V	34.14	3.58	0.00	99.05	93.03	N/A	N/A
5610.00	51.85	AV	V	34.14	3.58	0.00	89.57	83.55	N/A	N/A
5725.00	27.65	PK	H	34.19	3.69	0.00	65.53	59.51	68.20	8.69
11220.00	35.67	PK	H	38.72	6.58	25.48	55.49	49.47	74.00	24.53
11220.00	22.36	AV	H	38.72	6.58	25.48	42.18	36.16	54.00	17.84
16830.00	35.61	PK	H	39.52	8.69	24.06	59.76	53.74	68.20	14.46

5725-5850MHz
802.11a

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBµV/m)	Extrapolation result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)						
Low Channel: 5745 MHz										
5745.00	69.99	PK	H	34.20	3.69	0.00	107.88	101.86	N/A	N/A
5745.00	61.56	AV	H	34.20	3.69	0.00	99.45	93.43	N/A	N/A
5745.00	68.35	PK	V	34.20	3.69	0.00	106.24	100.22	N/A	N/A
5745.00	60.29	AV	V	34.20	3.69	0.00	98.18	92.16	N/A	N/A
5725.00	37.98	PK	H	34.19	3.69	0.00	75.86	69.84	122.20	52.36
5720.00	35.99	PK	H	34.19	3.69	0.00	73.87	67.85	110.80	42.95
5700.00	28.13	PK	H	34.18	3.68	0.00	65.99	59.97	105.20	45.23
5650.00	27.31	PK	H	34.16	3.63	0.00	65.10	59.08	68.20	9.12
11490.00	35.22	PK	H	38.99	6.59	25.51	55.29	49.27	74.00	24.73
11490.00	24.89	AV	H	38.99	6.59	25.51	44.96	38.94	54.00	15.06
17235.00	37.25	PK	H	41.56	8.78	23.72	63.87	57.85	68.20	10.35
Middle Channel: 5785 MHz										
5785.00	69.34	PK	H	34.21	3.71	0.00	107.26	101.24	N/A	N/A
5785.00	60.16	AV	H	34.21	3.71	0.00	98.08	92.06	N/A	N/A
5785.00	67.33	PK	V	34.21	3.71	0.00	105.25	99.23	N/A	N/A
5785.00	59.07	AV	V	34.21	3.71	0.00	96.99	90.97	N/A	N/A
11570.00	35.26	PK	H	39.00	6.61	25.46	55.41	49.39	74.00	24.61
11570.00	25.65	AV	H	39.00	6.61	25.46	45.80	39.78	54.00	14.22
17355.00	34.28	PK	H	42.26	8.81	23.60	61.75	55.73	68.20	12.47
High Channel: 5825 MHz										
5825.00	68.96	PK	H	34.23	3.73	0.00	106.92	100.9	N/A	N/A
5825.00	59.77	AV	H	34.23	3.73	0.00	97.73	91.71	N/A	N/A
5825.00	67.01	PK	V	34.23	3.73	0.00	104.97	98.95	N/A	N/A
5825.00	58.69	AV	V	34.23	3.73	0.00	96.65	90.63	N/A	N/A
5850.00	31.69	PK	H	34.24	3.75	0.00	69.68	63.66	122.20	58.54
5855.00	31.26	PK	H	34.24	3.75	0.00	69.25	63.23	110.80	47.57
5875.00	28.63	PK	H	34.25	3.77	0.00	66.65	60.63	105.20	44.57
5925.00	28.21	PK	H	34.27	3.80	0.00	66.28	60.26	68.20	7.94
11650.00	35.58	PK	H	39.00	6.64	25.41	55.81	49.79	74.00	24.21
11650.00	25.27	AV	H	39.00	6.64	25.41	45.50	39.48	54.00	14.52
17475.00	34.26	PK	H	42.96	8.84	23.48	62.58	56.56	68.20	11.64

802.11n ht20:

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBµV/m)	Extrapolation result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)						
Low Channel: 5745 MHz										
5745.00	69.59	PK	H	34.20	3.69	0.00	107.48	101.46	N/A	N/A
5745.00	60.61	AV	H	34.20	3.69	0.00	98.50	92.48	N/A	N/A
5745.00	68.63	PK	V	34.20	3.69	0.00	106.52	100.5	N/A	N/A
5745.00	59.58	AV	V	34.20	3.69	0.00	97.47	91.45	N/A	N/A
5725.00	38.89	PK	H	34.19	3.69	0.00	76.77	70.75	122.20	51.45
5720.00	36.27	PK	H	34.19	3.69	0.00	74.15	68.13	110.80	42.67
5700.00	28.33	PK	H	34.18	3.68	0.00	66.19	60.17	105.20	45.03
5650.00	28.01	PK	H	34.16	3.63	0.00	65.80	59.78	68.20	8.42
11490.00	35.81	PK	H	38.99	6.59	25.51	55.88	49.86	74.00	24.14
11490.00	25.32	AV	H	38.99	6.59	25.51	45.39	39.37	54.00	14.63
17235.00	34.64	PK	H	41.56	8.78	23.72	61.26	55.24	68.20	12.96
Middle Channel: 5785 MHz										
5785.00	68.25	PK	H	34.21	3.71	0.00	106.17	100.15	N/A	N/A
5785.00	59.27	AV	H	34.21	3.71	0.00	97.19	91.17	N/A	N/A
5785.00	67.22	PK	V	34.21	3.71	0.00	105.14	99.12	N/A	N/A
5785.00	58.24	AV	V	34.21	3.71	0.00	96.16	90.14	N/A	N/A
11570.00	35.49	PK	H	39.00	6.61	25.46	55.64	49.62	74.00	24.38
11570.00	25.03	AV	H	39.00	6.61	25.46	45.18	39.16	54.00	14.84
17355.00	34.28	PK	H	42.26	8.81	23.60	61.75	55.73	68.20	12.47
High Channel: 5825 MHz										
5825.00	67.56	PK	H	34.23	3.73	0.00	105.52	99.5	N/A	N/A
5825.00	58.96	AV	H	34.23	3.73	0.00	96.92	90.9	N/A	N/A
5825.00	65.69	PK	V	34.23	3.73	0.00	103.65	97.63	N/A	N/A
5825.00	57.61	AV	V	34.23	3.73	0.00	95.57	89.55	N/A	N/A
5850.00	34.85	PK	H	34.24	3.75	0.00	72.84	66.82	122.20	55.38
5855.00	30.96	PK	H	34.24	3.75	0.00	68.95	62.93	110.80	47.87
5875.00	28.32	PK	H	34.25	3.77	0.00	66.34	60.32	105.20	44.88
5925.00	27.63	PK	H	34.27	3.80	0.00	65.70	59.68	68.20	8.52
11650.00	35.65	PK	H	39.00	6.64	25.41	55.88	49.86	74.00	24.14
11650.00	25.16	AV	H	39.00	6.64	25.41	45.39	39.37	54.00	14.63
17475.00	33.57	PK	H	42.96	8.84	23.48	61.89	55.87	68.20	12.33

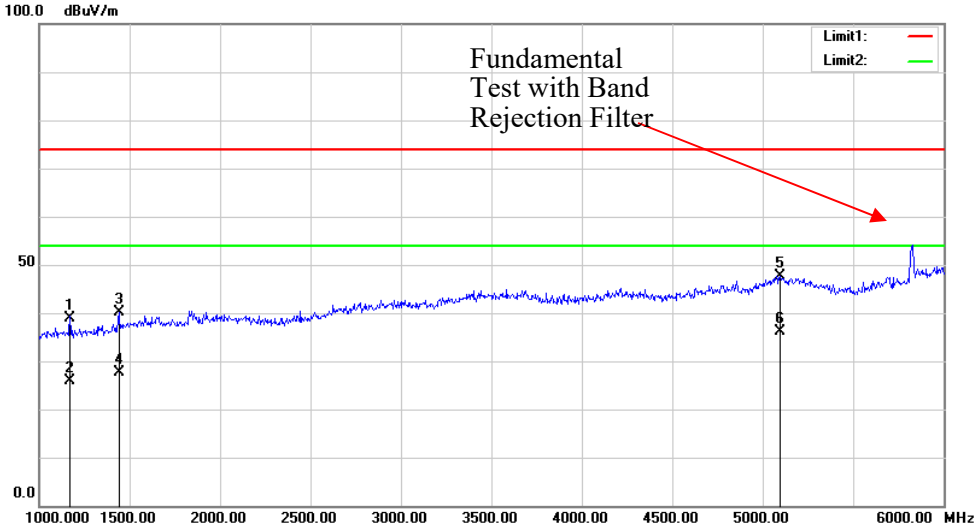
802.11n ht40:

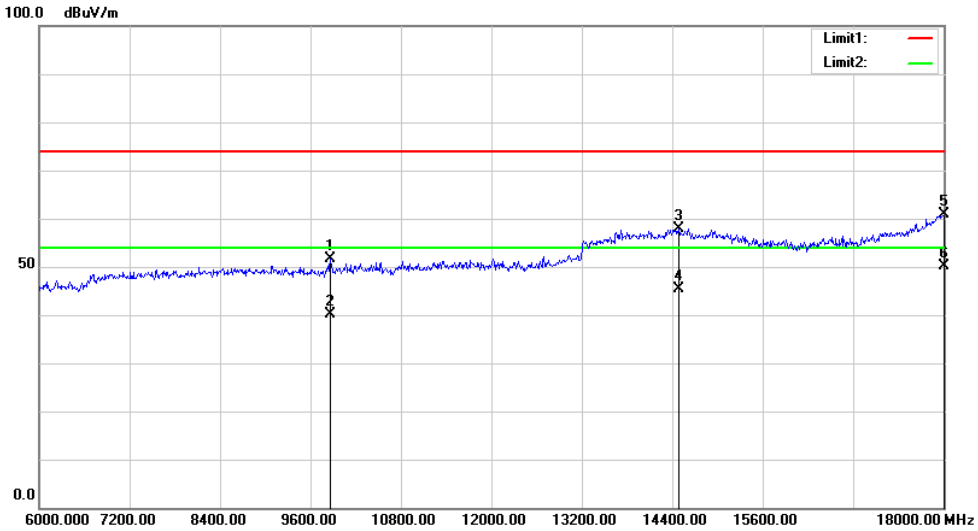
Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBµV/m)	Extrapolation result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)						
Low Channel: 5755 MHz										
5755.00	62.95	PK	V	34.20	3.70	0.00	100.85	94.83	N/A	N/A
5755.00	53.24	AV	V	34.20	3.70	0.00	91.14	85.12	N/A	N/A
5755.00	69.35	PK	H	34.20	3.70	0.00	107.25	101.23	N/A	N/A
5755.00	60.88	AV	H	34.20	3.70	0.00	98.78	92.76	N/A	N/A
5725.00	39.35	PK	H	34.19	3.69	0.00	77.23	71.21	122.20	50.99
5720.00	40.15	PK	H	34.19	3.69	0.00	78.03	72.01	110.80	38.79
5700.00	34.69	PK	H	34.18	3.68	0.00	72.55	66.53	105.20	38.67
5650.00	31.35	PK	H	34.16	3.63	0.00	69.14	63.12	68.20	5.08
11510.00	35.27	PK	H	39.00	6.59	25.50	55.36	49.34	74.00	24.66
11510.00	23.16	AV	H	39.00	6.59	25.50	43.25	37.23	54.00	16.77
17265.00	34.96	PK	H	41.74	8.79	23.69	61.80	55.78	68.20	12.42
High Channel: 5795 MHz										
5795.00	63.54	PK	V	34.22	3.71	0.00	101.47	95.45	N/A	N/A
5795.00	55.27	AV	V	34.22	3.71	0.00	93.20	87.18	N/A	N/A
5795.00	67.78	PK	H	34.22	3.71	0.00	105.71	99.69	N/A	N/A
5795.00	59.69	AV	H	34.22	3.71	0.00	97.62	91.6	N/A	N/A
5850.00	29.74	PK	H	34.24	3.75	0.00	67.73	61.71	122.20	60.49
5855.00	28.16	PK	H	34.24	3.75	0.00	66.15	60.13	110.80	50.67
5875.00	26.45	PK	H	34.25	3.77	0.00	64.47	58.45	105.20	46.75
5925.00	26.97	PK	H	34.27	3.80	0.00	65.04	59.02	68.20	9.18
11590.00	35.21	PK	H	39.00	6.62	25.45	55.38	49.36	74.00	24.64
11590.00	23.16	AV	H	39.00	6.62	25.45	43.33	37.31	54.00	16.69
17385.00	33.18	PK	H	42.43	8.82	23.57	60.86	54.84	68.20	13.36

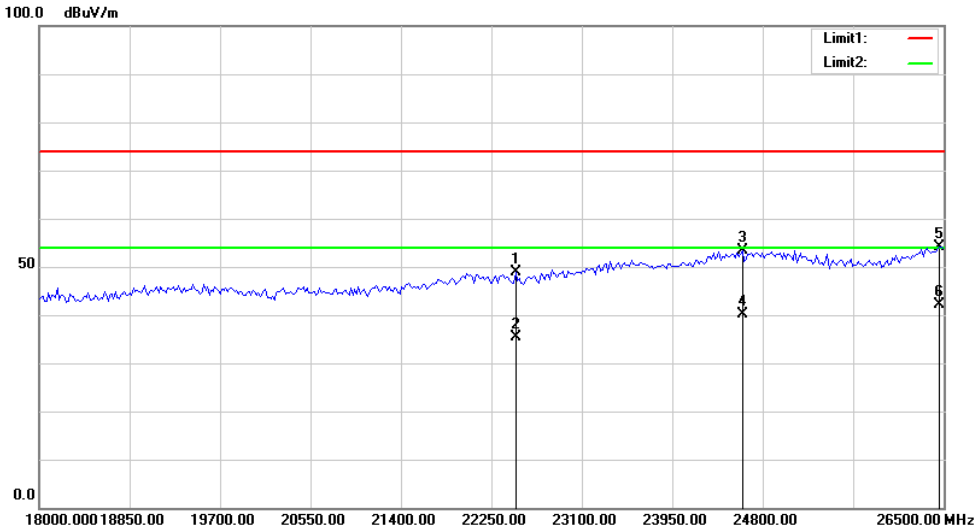
802.11ac vht80:

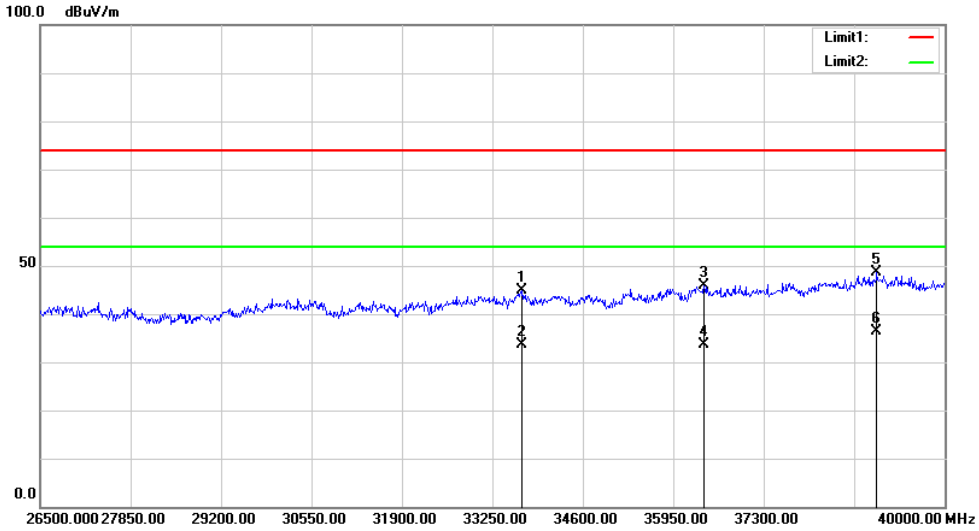
Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBµV/m)	Extrapolation result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)						
Middle Channel: 5775 MHz										
5775.00	58.51	PK	V	34.21	3.70	0.00	96.42	90.4	N/A	N/A
5775.00	49.35	AV	V	34.21	3.70	0.00	87.26	81.24	N/A	N/A
5775.00	64.57	PK	H	34.21	3.70	0.00	102.48	96.46	N/A	N/A
5775.00	55.34	AV	H	34.21	3.70	0.00	93.25	87.23	N/A	N/A
5725.00	32.63	PK	H	34.19	3.69	0.00	70.51	64.49	122.20	57.71
5720.00	32.62	PK	H	34.19	3.69	0.00	70.50	64.48	110.80	46.32
5700.00	30.53	PK	H	34.18	3.68	0.00	68.39	62.37	105.20	42.83
5650.00	26.38	PK	H	34.16	3.63	0.00	64.17	58.15	68.20	10.05
5850.00	27.85	PK	H	34.24	3.75	0.00	65.84	59.82	122.20	62.38
5855.00	27.88	PK	H	34.24	3.75	0.00	65.87	59.85	110.80	50.95
5875.00	27.61	PK	H	34.25	3.77	0.00	65.63	59.61	105.20	45.59
5925.00	27.21	PK	H	34.27	3.80	0.00	65.28	59.26	68.20	8.94
11550.00	35.26	PK	H	39.00	6.61	25.48	55.39	49.37	74.00	24.63
11550.00	23.14	AV	H	39.00	6.61	25.48	43.27	37.25	54.00	16.75
17325.00	34.27	PK	H	42.09	8.80	23.63	61.53	55.51	68.20	12.69

Test Plots(802.11a mode 5745MHz was the worst)
Horizontal

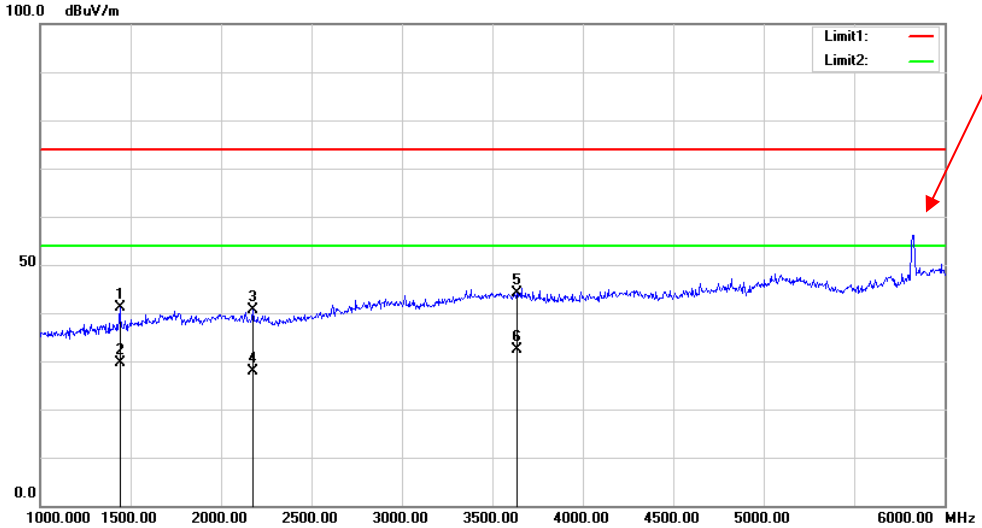




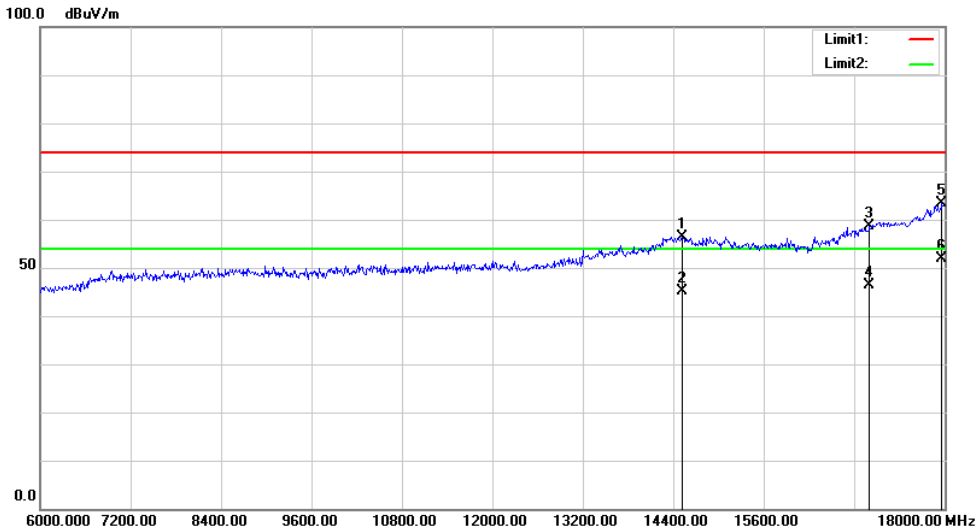


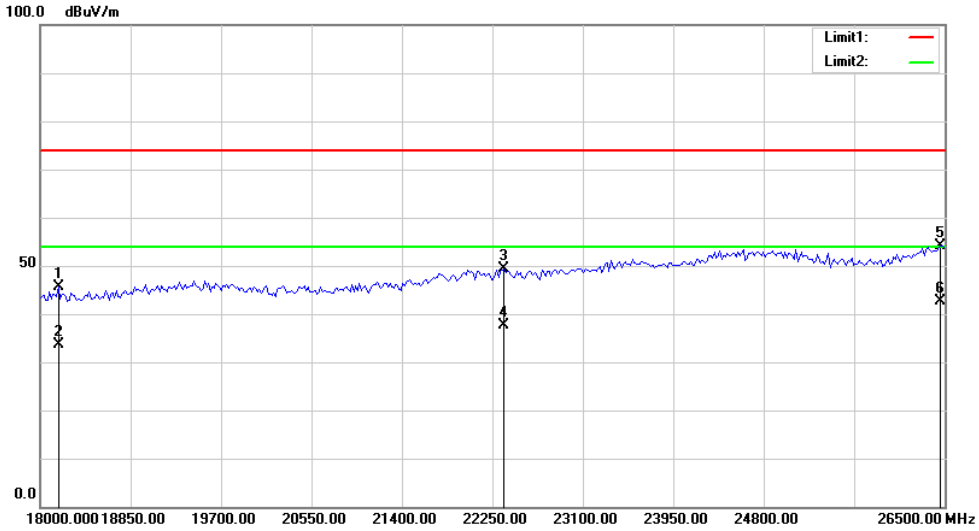


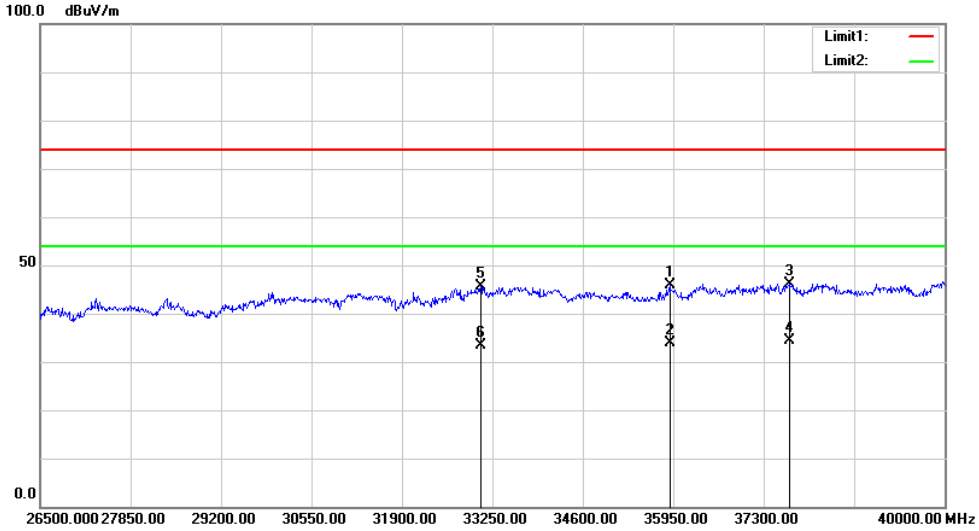
Vertical:



Fundamental Test with Band Rejection Filter




100.0 dBuV/m
Limit1:
Limit2:
50
0.0
18000.000 18850.00 19700.00 20550.00 21400.00 22250.00 23100.00 23950.00 24800.00 26500.00 MHz


100.0 dBuV/m
Limit1:
Limit2:
50
0.0
26500.000 27850.00 29200.00 30550.00 31900.00 33250.00 34600.00 35950.00 37300.00 40000.00 MHz

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

Applicable Standard

15.407(a) (e).

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU 26	200256	2021-07-22	2022-07-21
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A

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

Test Procedure

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

Test Data

Environmental Conditions

Temperature:	27.4~27.8 °C
Relative Humidity:	67~69 %
ATM Pressure:	99.5~100.4kPa
Test by:	Joe Qiao
Test Date:	2021-08-18~2021-08-21

Test Result: Compliance. Please refer to the following tables and plots.

Test mode: Transmitting

5150-5250MHz:

Mode	Frequency (MHz)	26 dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
802.11 a	5180	21.360	16.720
	5200	21.680	16.720
	5240	21.280	16.720
802.11n ht20	5180	21.680	18.080
	5200	21.680	18.080
	5240	21.520	18.080
802.11n ht40	5190	39.680	36.480
	5230	39.520	36.480
802.11ac vht80	5210	81.600	75.840

5250-5350MHz:

Mode	Frequency (MHz)	26 dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
802.11 a	5260	21.360	16.720
	5280	21.200	16.720
	5320	21.280	16.720
802.11n ht20	5260	21.600	18.080
	5280	21.520	18.000
	5320	21.600	18.000
802.11n ht40	5270	39.200	36.480
	5310	39.360	36.480
802.11ac vht80	5290	81.280	75.840

5470-5725 MHz:

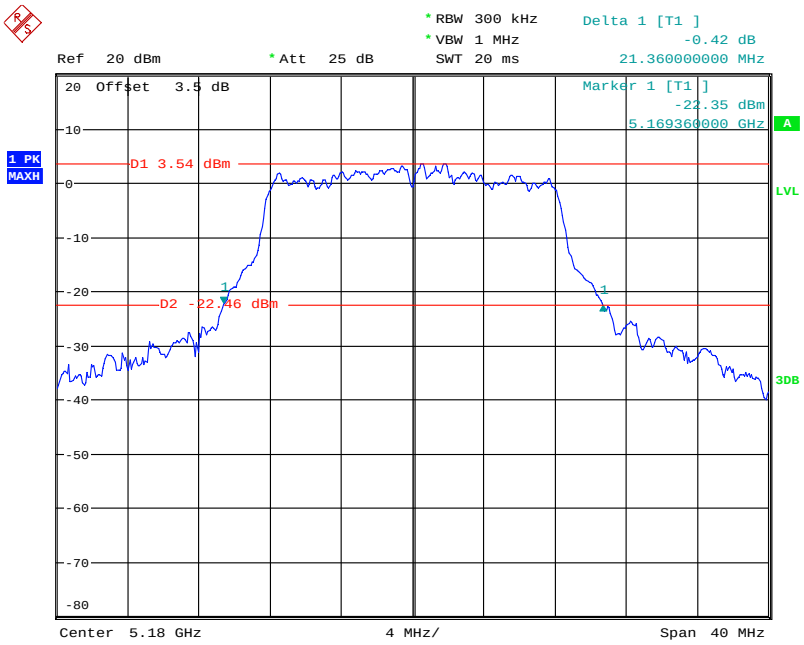
Mode	Frequency (MHz)	26 dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
802.11 a	5500	21.280	16.640
	5580	21.200	16.720
	5700	21.200	16.720
	5720	22.462	16.720
802.11n ht20	5500	21.600	18.080
	5580	21.680	18.000
	5700	22.004	18.000
	5720	21.923	18.000
802.11n ht40	5510	39.200	36.480
	5550	39.200	36.480
	5670	39.520	36.480
	5710	50.623	36.640
802.11ac vht80	5530	81.280	75.840
	5610	82.153	75.840
	5690	81.920	75.840

5725-5850MHz:

Mode	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	6 dB Emission Bandwidth Limits (MHz)	99% Occupied Bandwidth (MHz)
802.11 a	5745	16.320	≥0.5	16.720
	5785	16.320	≥0.5	16.800
	5825	16.080	≥0.5	16.800
802.11n ht20	5745	17.760	≥0.5	18.000
	5785	17.760	≥0.5	18.080
	5825	17.760	≥0.5	18.080
802.11n ht40	5755	36.480	≥0.5	36.640
	5795	36.320	≥0.5	36.640
802.11ac vht80	5775	76.160	≥0.5	75.840

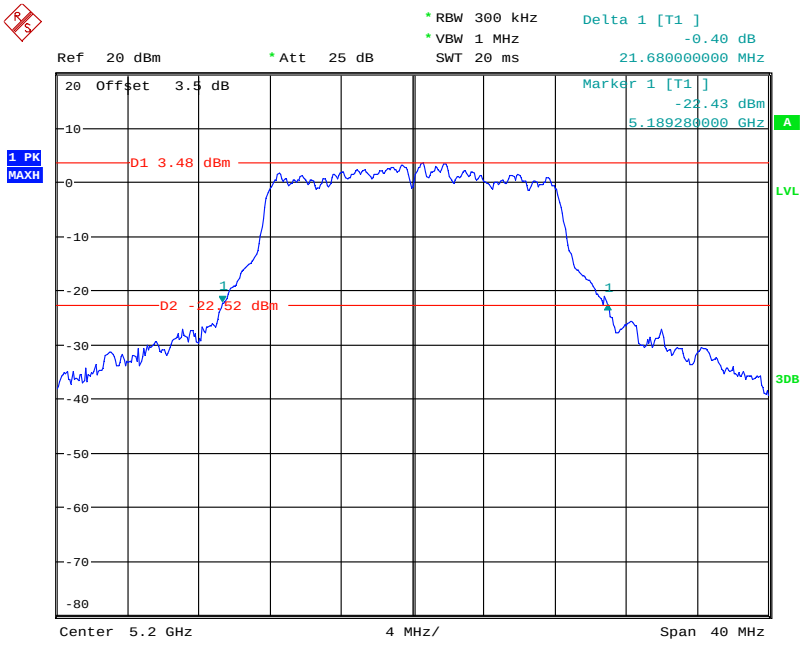
5150-5250MHz:
26dB Emission Bandwidth:

802.11a Low Channel



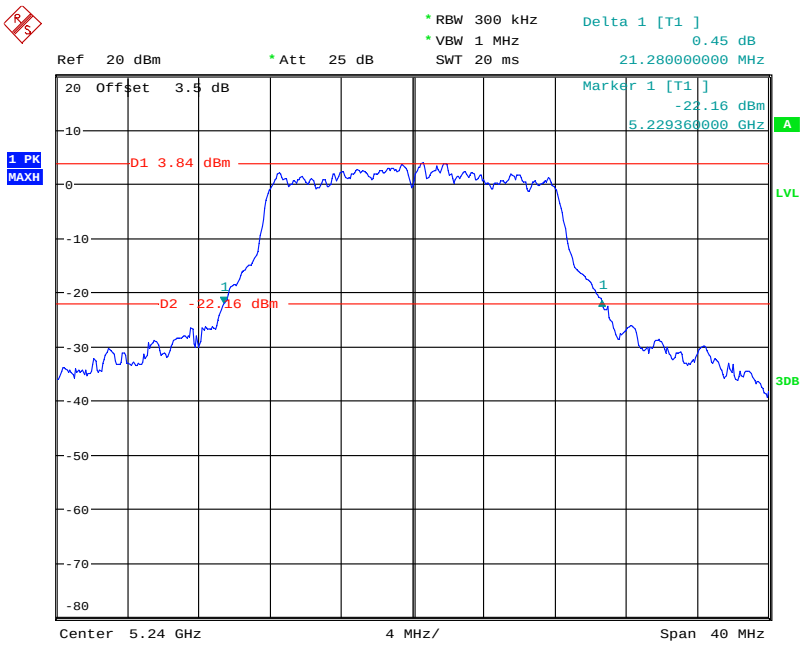
Date: 18.AUG.2021 15:27:25

802.11a Middle Channel



Date: 18.AUG.2021 15:29:01

802.11a High Channel



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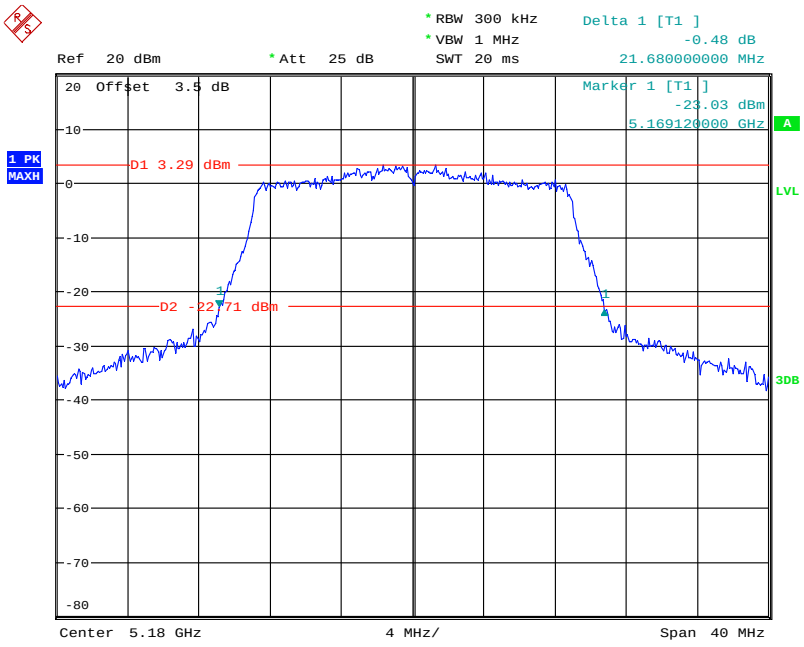
802.11n ht20 Low Channel



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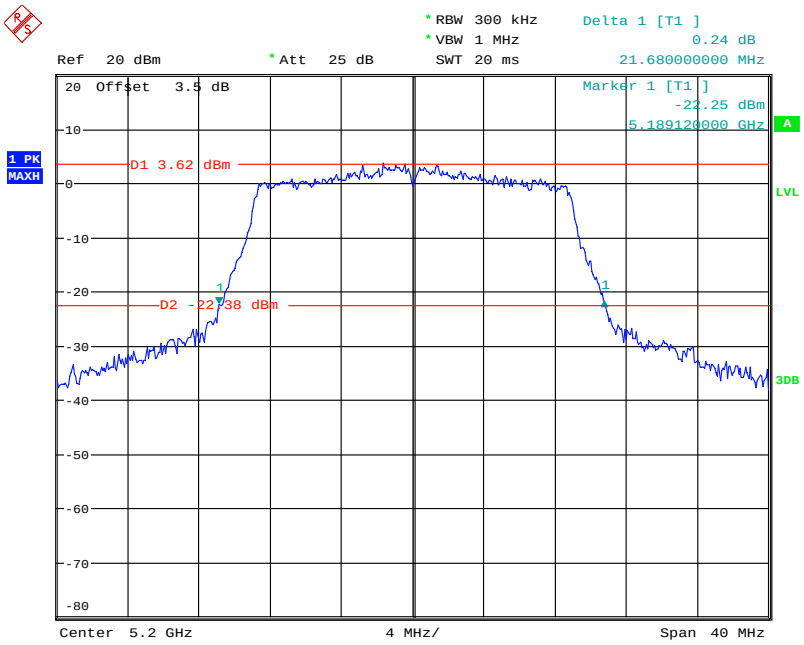
802.11n ht20 Middle Channel



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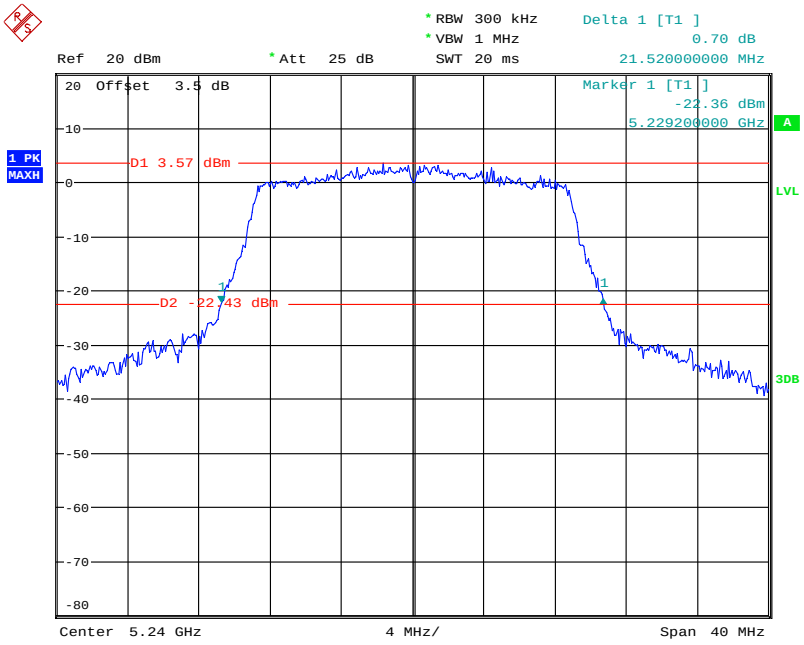
802.11n ht20 High Channel



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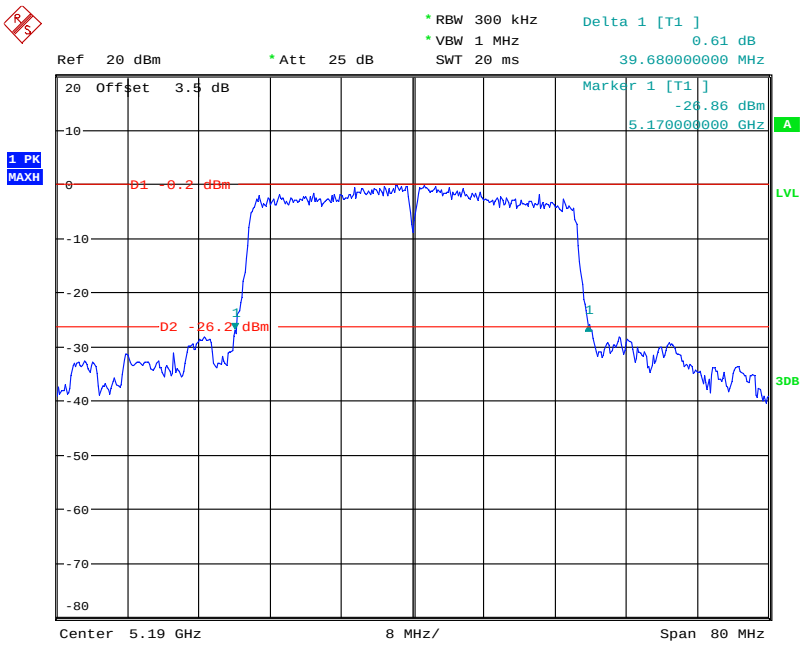
802.11n ht40 Low Channel



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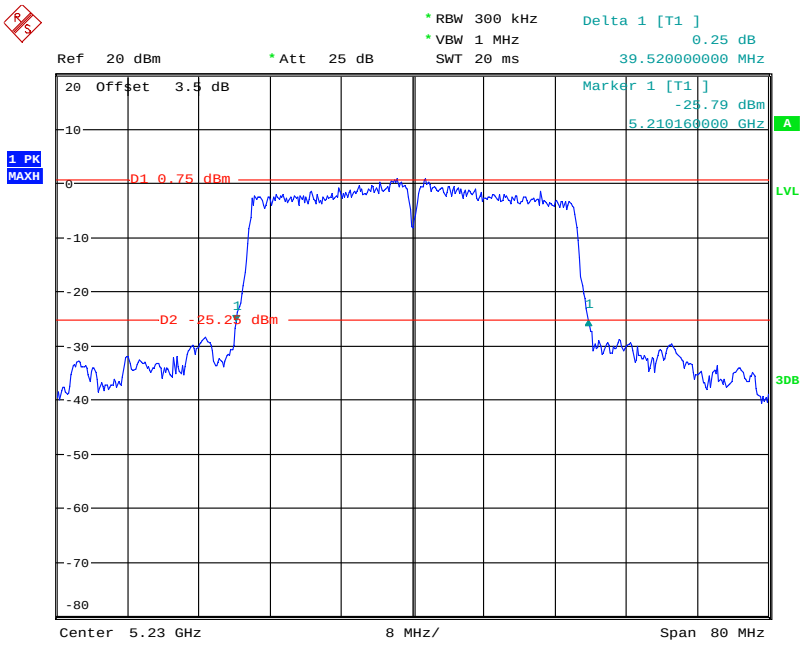
802.11n ht40 High Channel



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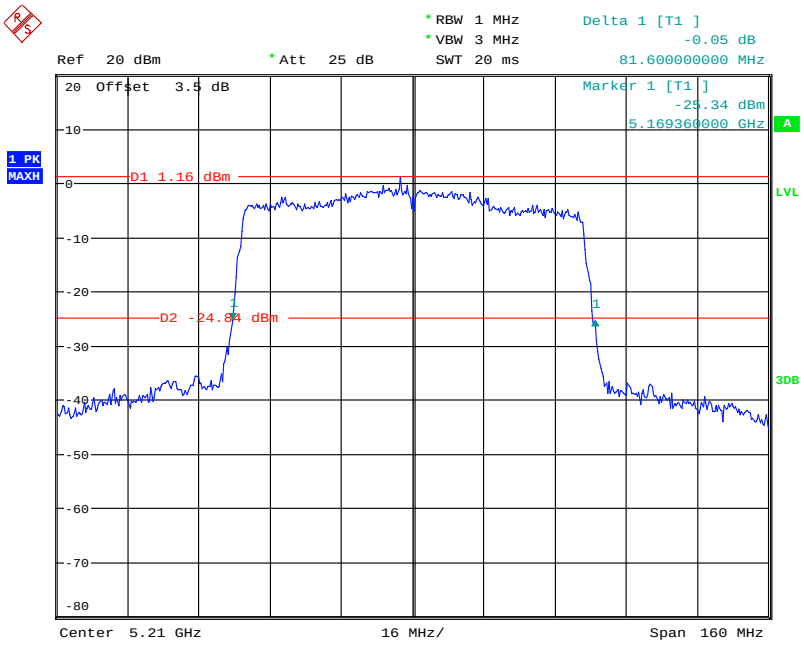
802.11ac vht80 Middle Channel



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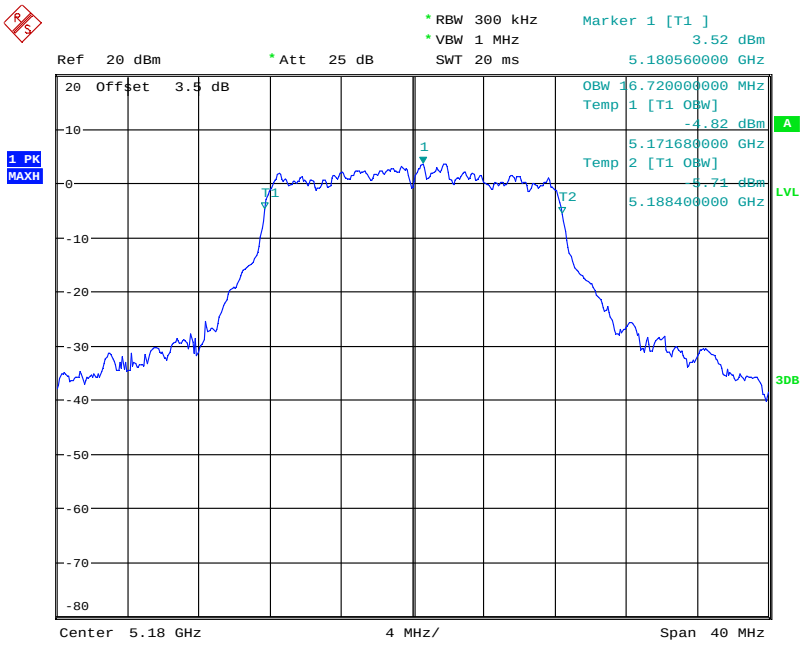
99% Occupied Bandwidth:

802.11a Low Channel



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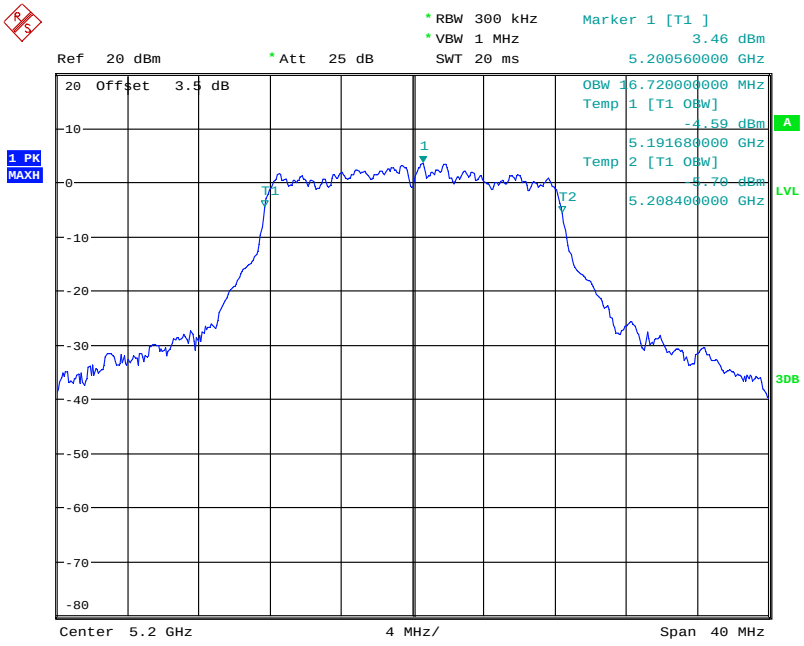
802.11a Middle Channel



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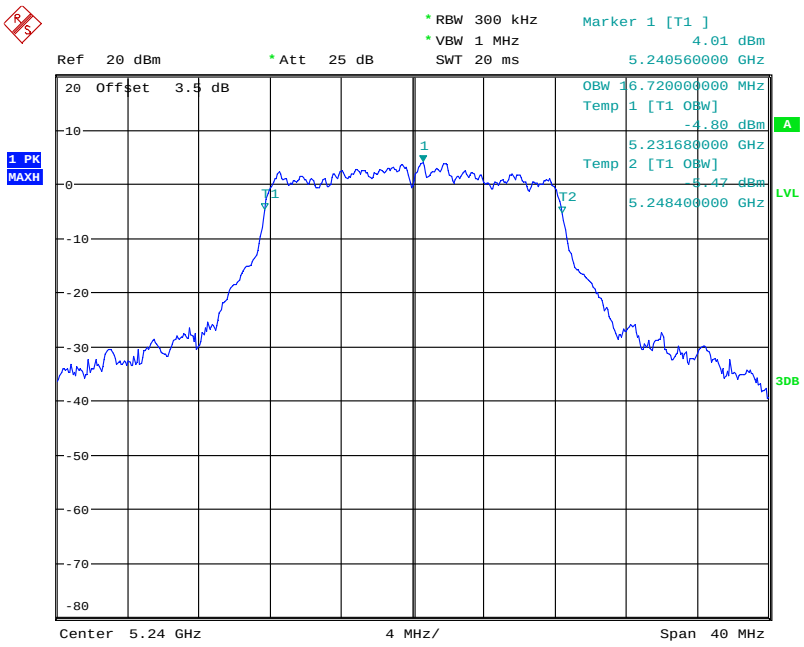
802.11a High Channel



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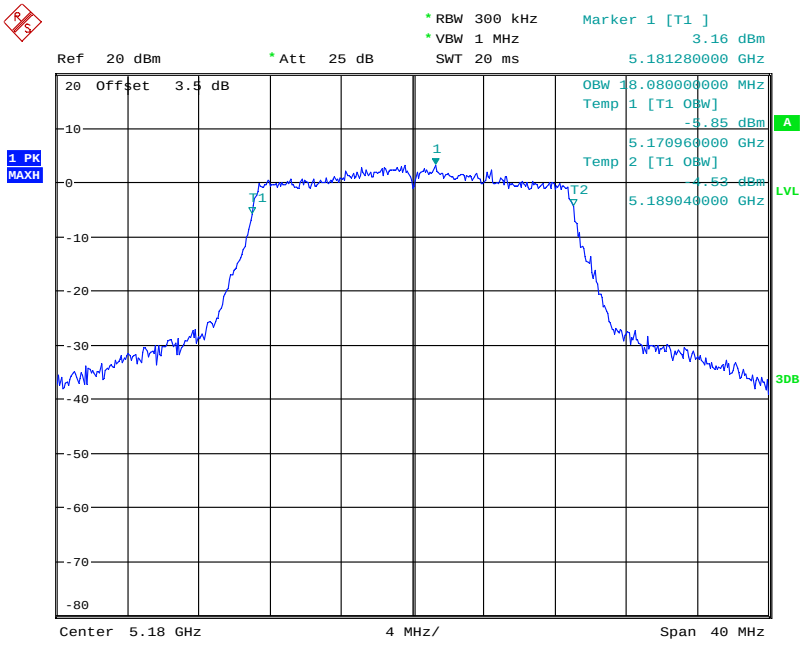
802.11n ht20 Low Channel



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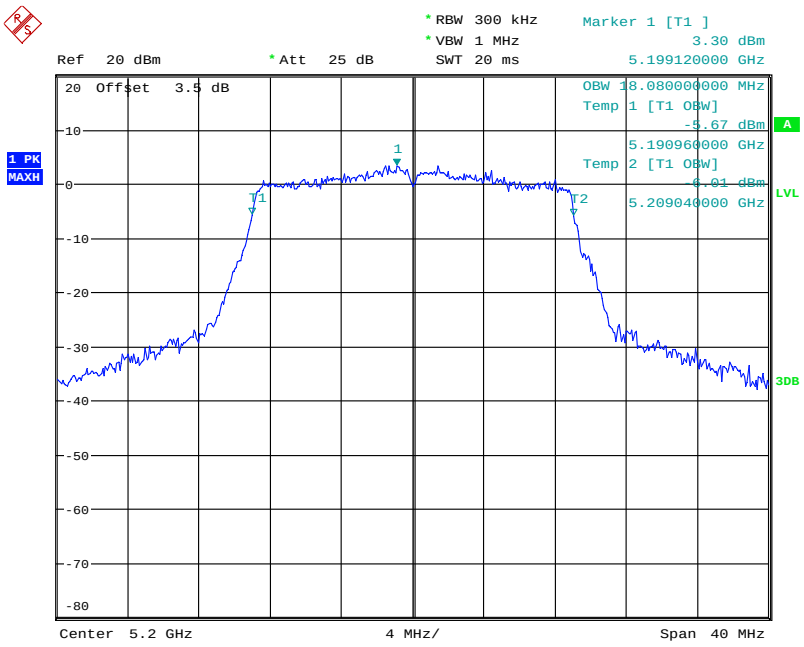
802.11n ht20 Middle Channel



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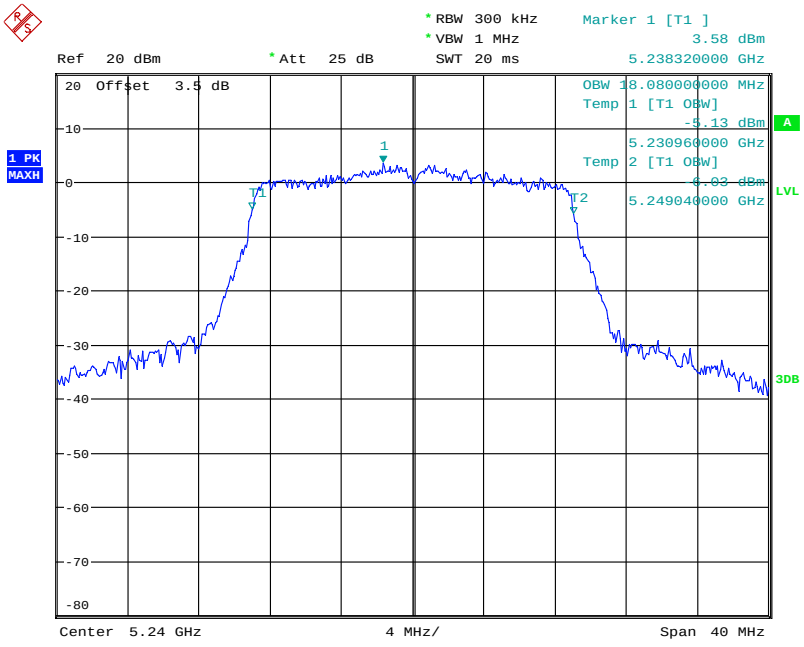
802.11n ht20 High Channel



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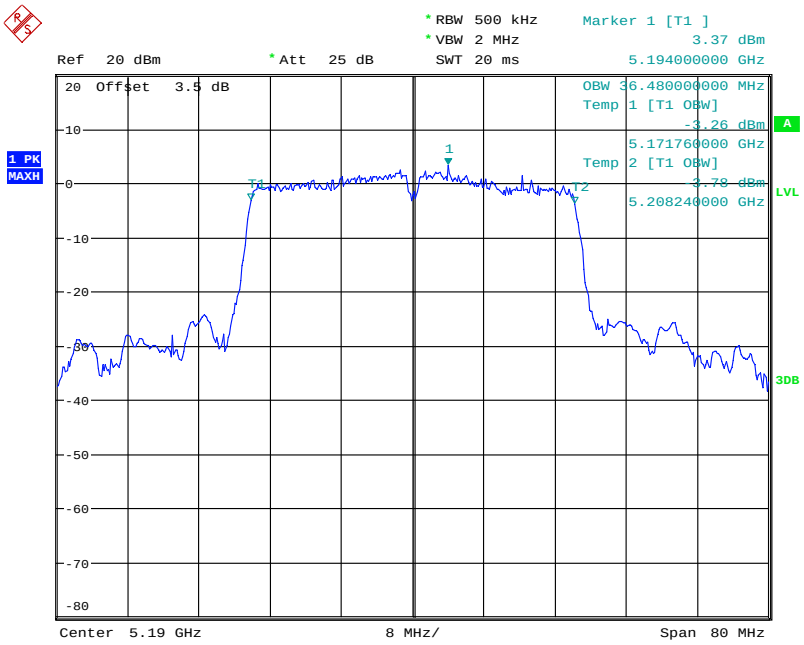
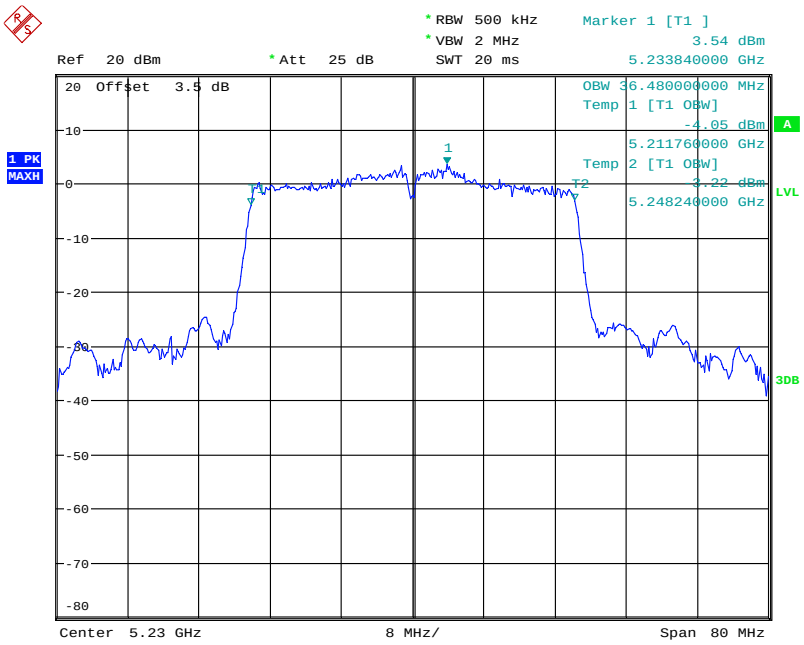
802.11n ht40 Low Channel



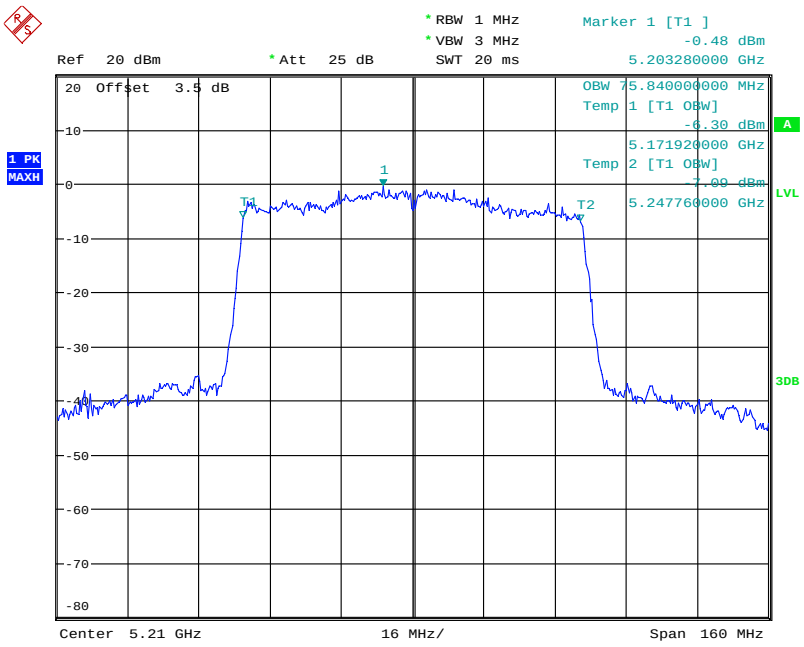
Date: 18.AUG.2021 15:50:29

802.11n ht40 High Channel



Date: 18.AUG.2021 15:51:37

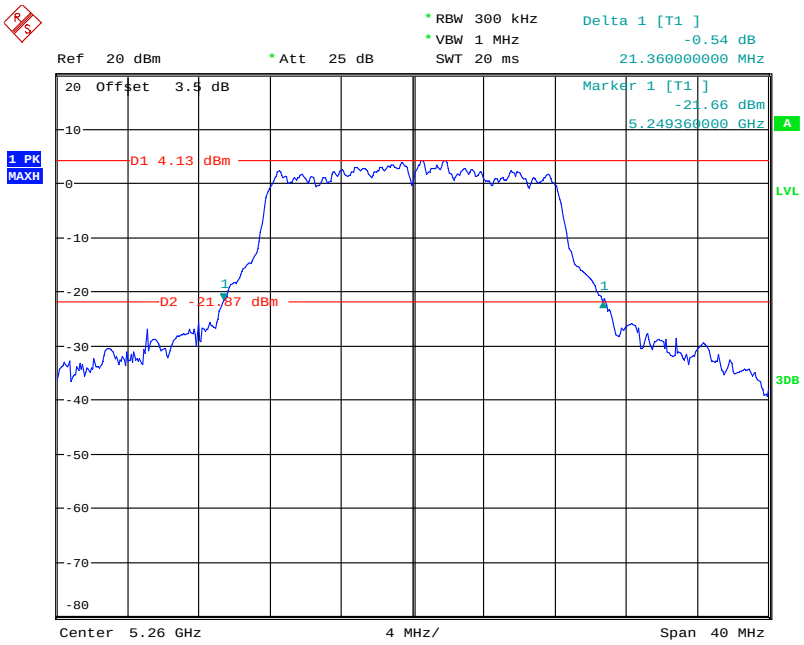
802.11ac vht80 Middle Channel



Date: 18.AUG.2021 16:02:07

5250-5350MHz:
26dB Emission Bandwidth:

802.11a Low Channel



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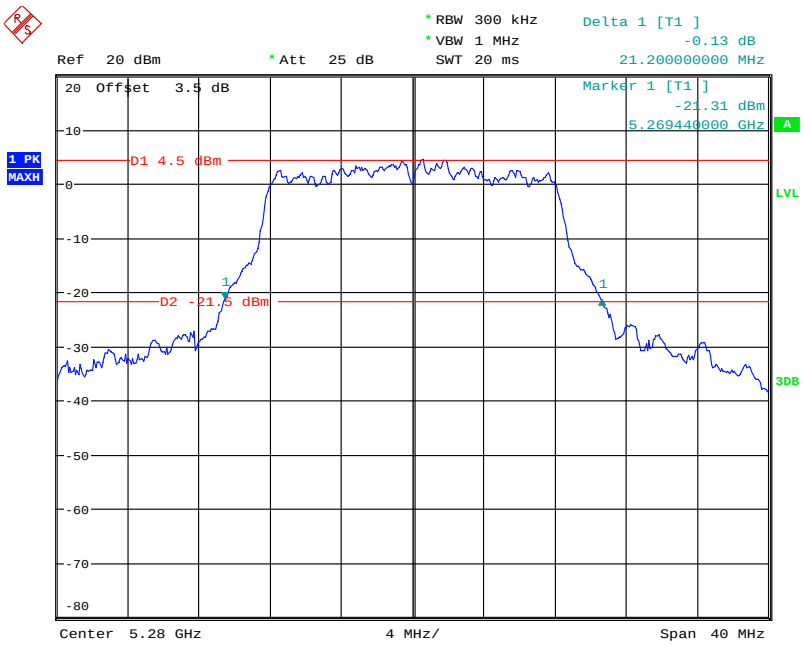
802.11a Middle Channel



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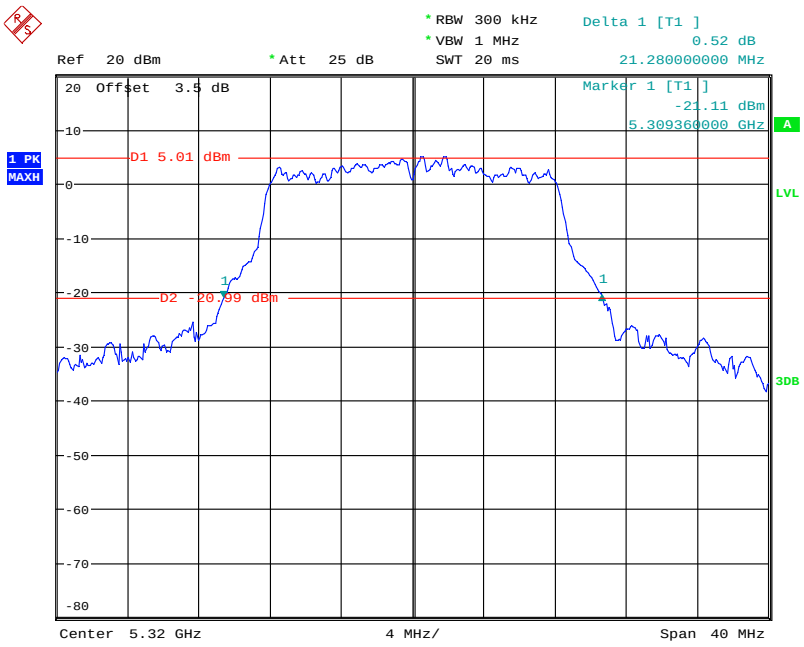
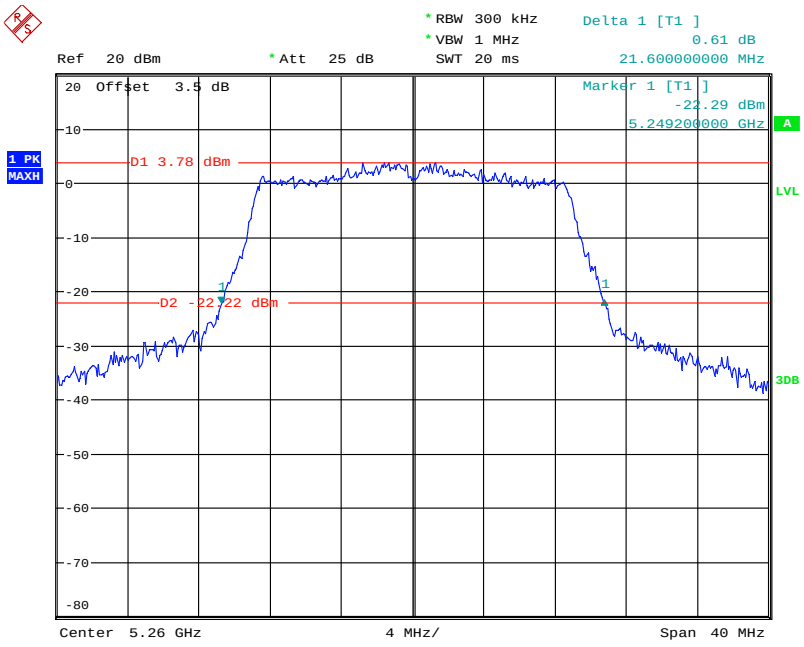
802.11a High Channel



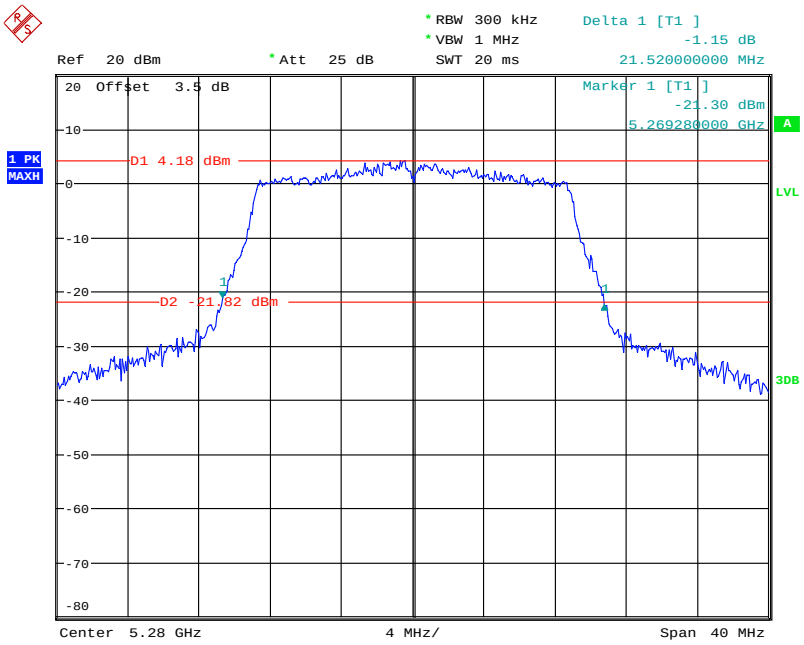
Date: 18.AUG.2021 16:07:57

802.11n ht20 Low Channel



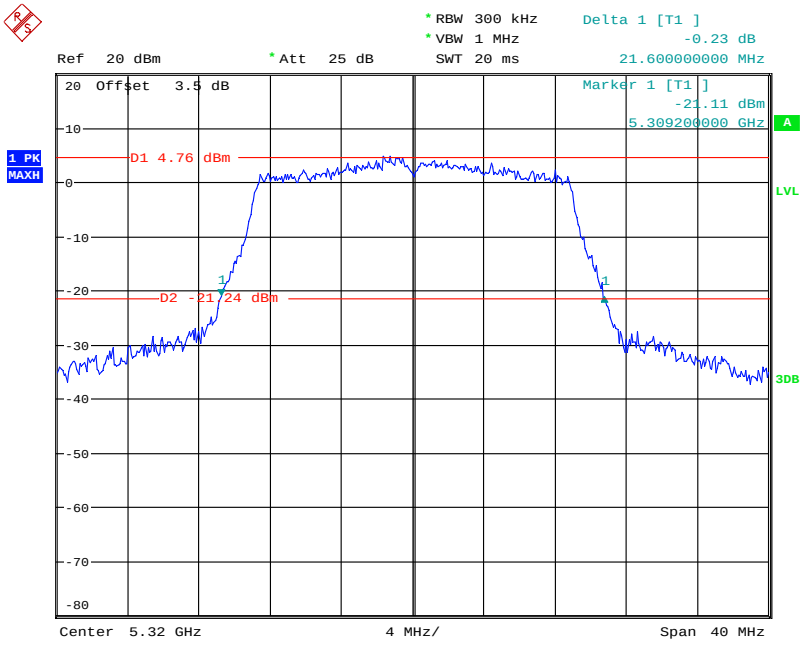
Date: 18.AUG.2021 16:12:25

802.11n ht20 Middle Channel



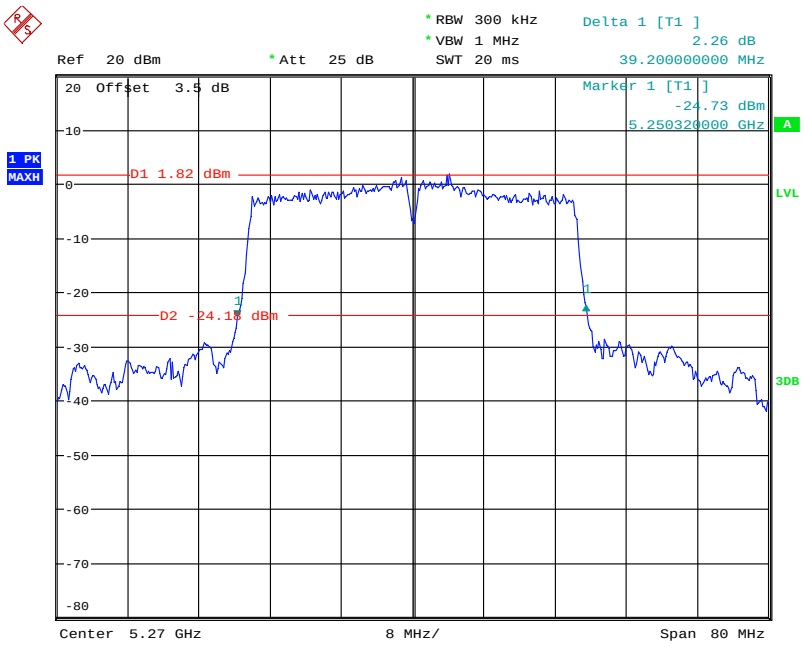
Date: 18.AUG.2021 16:11:03

802.11n ht20 High Channel



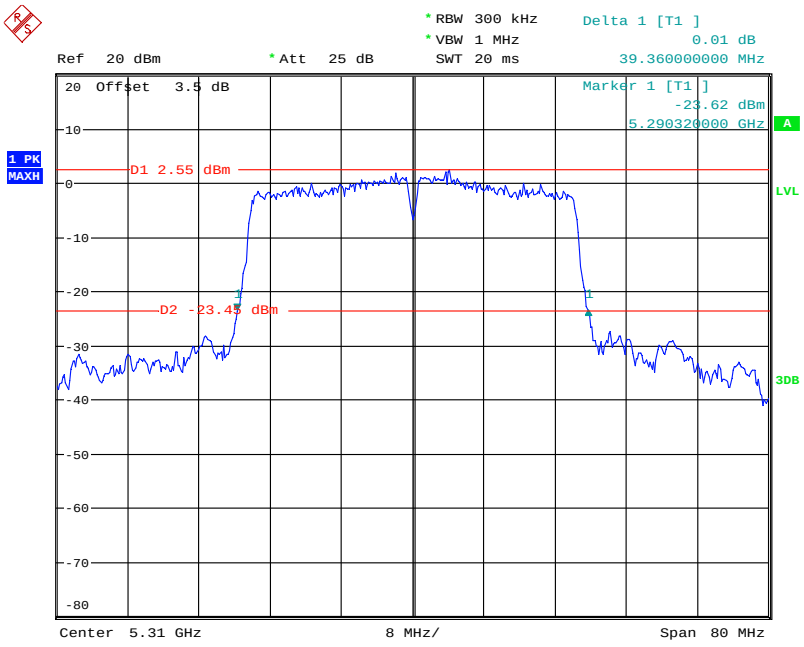
Date: 18.AUG.2021 16:09:47

802.11n ht40 Low Channel



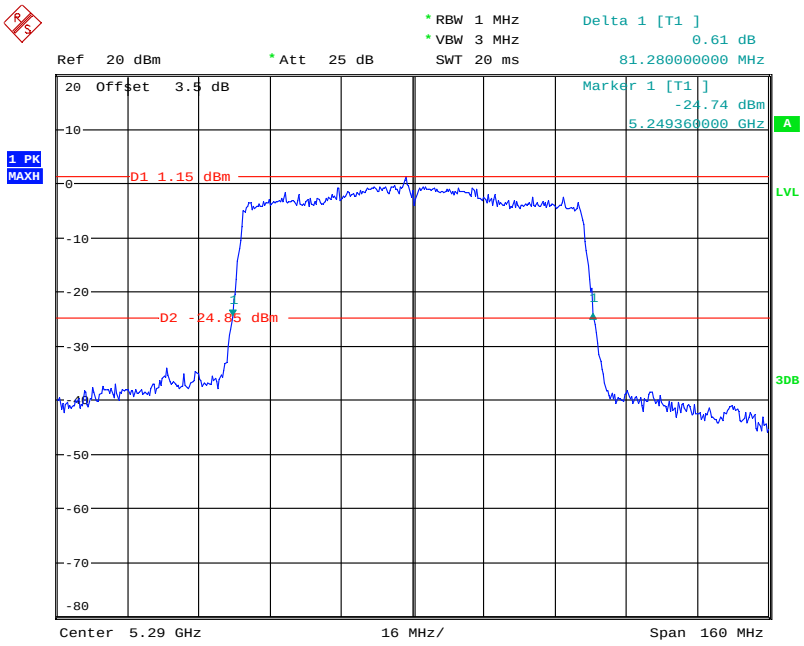
Date: 18.AUG.2021 16:14:02

802.11n ht40 High Channel



Date: 18.AUG.2021 16:18:08

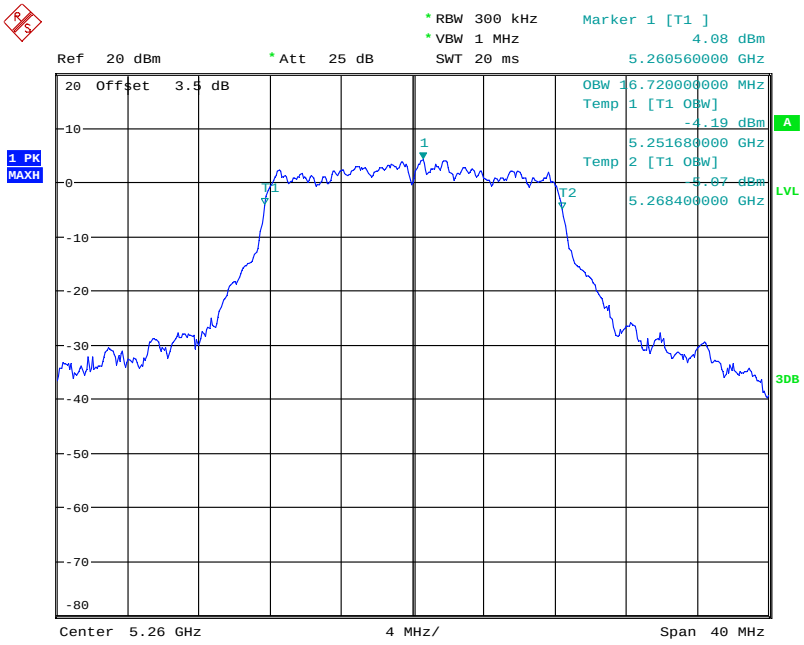
802.11ac vht80 Middle Channel



Date: 18.AUG.2021 16:04:00

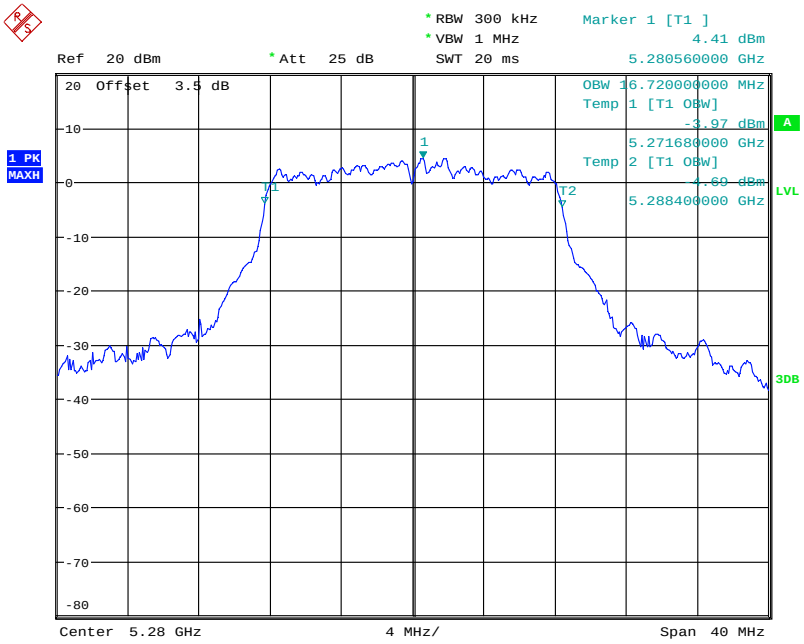
99% Occupied Bandwidth:

802.11a Low Channel



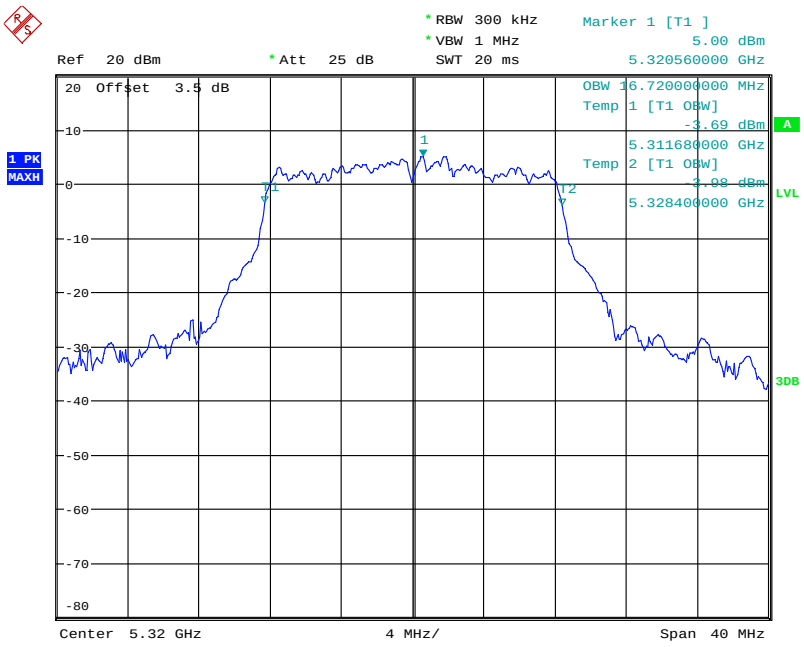
Date: 18.AUG.2021 16:05:35

802.11a Middle Channel



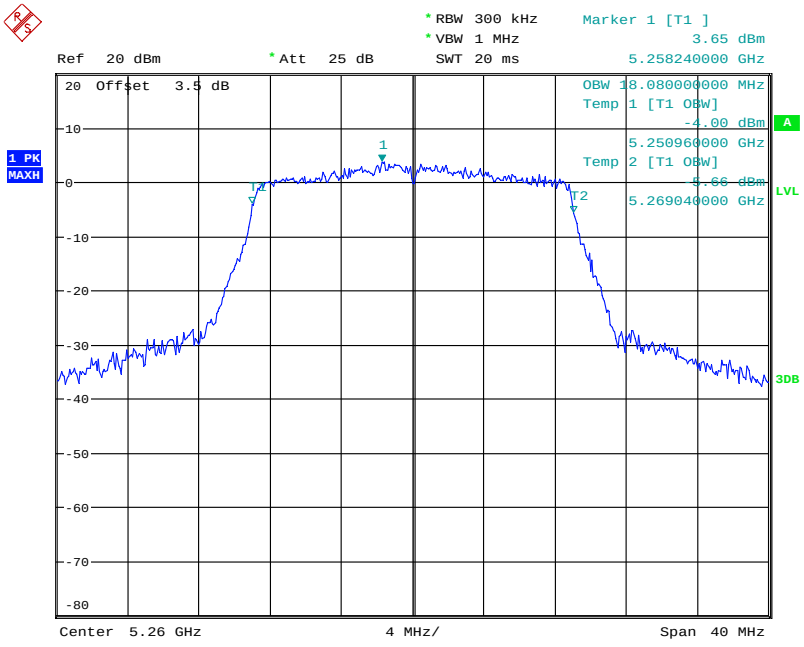
Date: 18.AUG.2021 16:06:33

802.11a High Channel



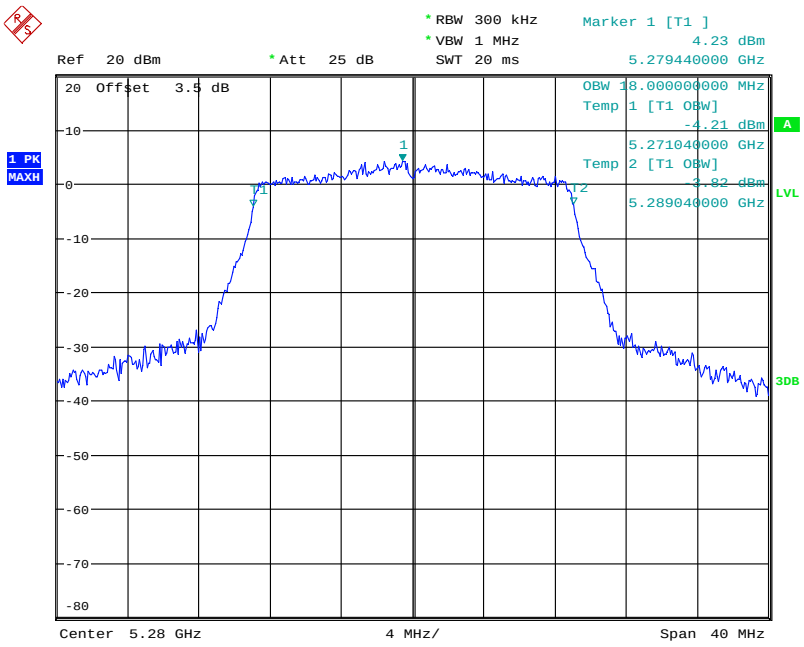
Date: 18.AUG.2021 16:08:08

802.11n ht20 Low Channel



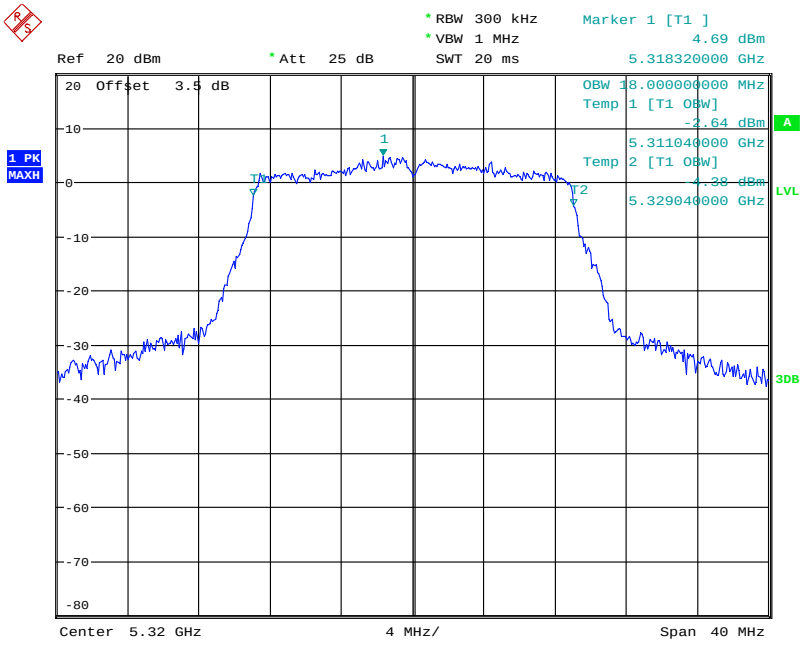
Date: 18.AUG.2021 16:12:43

802.11n ht20 Middle Channel



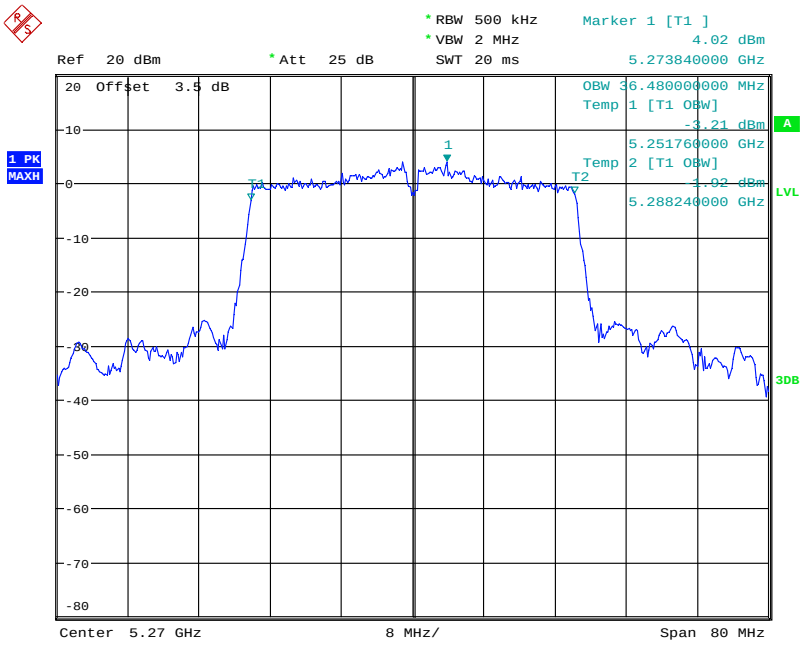
Date: 18.AUG.2021 16:11:21

802.11n ht20 High Channel



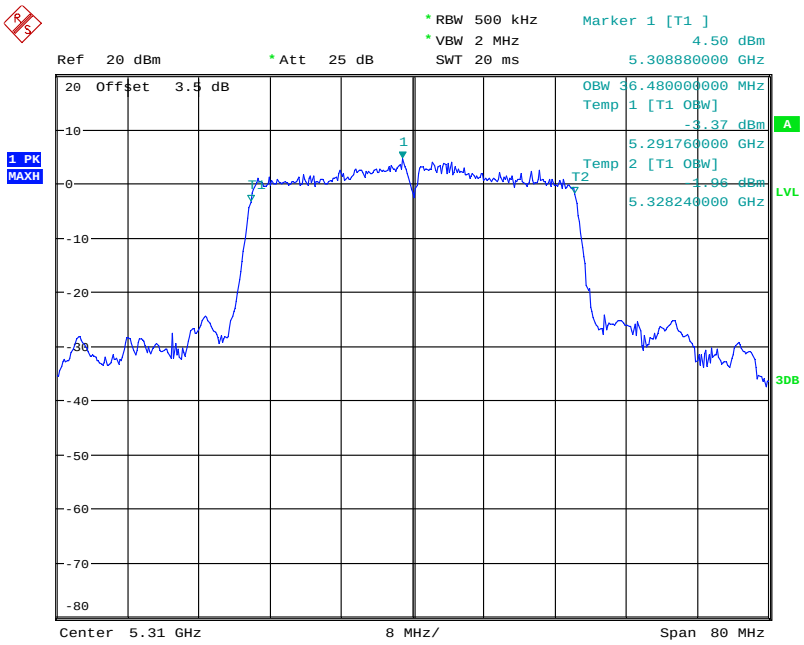
Date: 18.AUG.2021 16:10:04

802.11n ht40 Low Channel



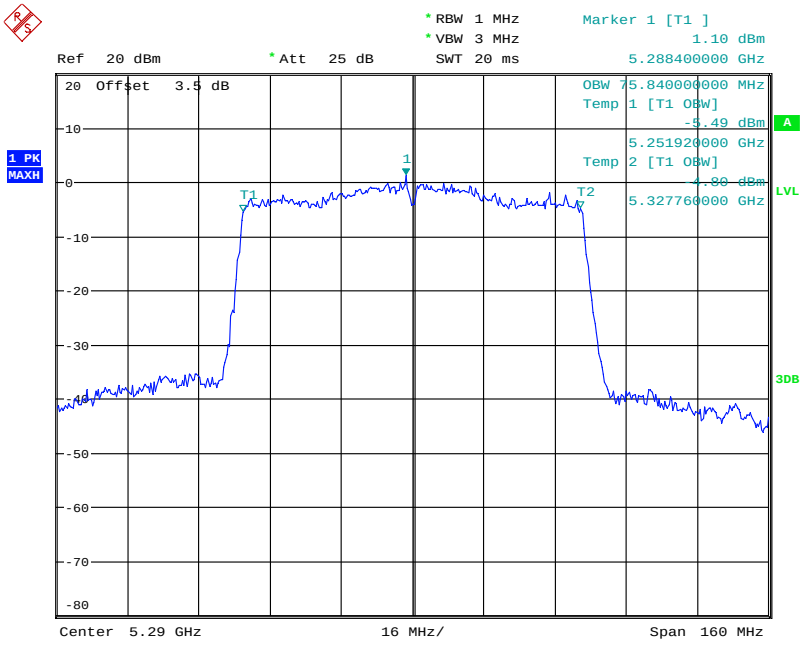
Date: 18.AUG.2021 16:14:17

802.11n ht40 High Channel



Date: 18.AUG.2021 16:18:22

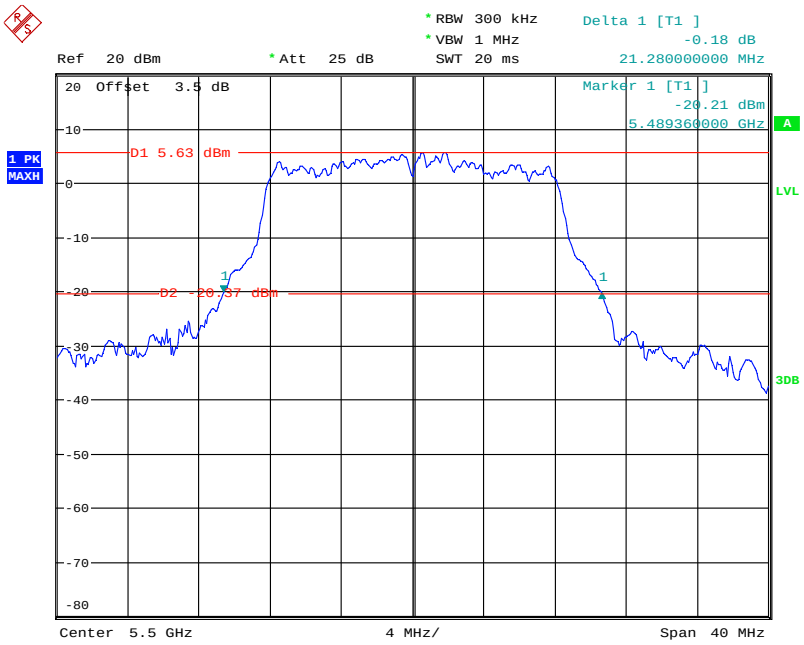
802.11ac vht80 Middle Channel



Date: 18.AUG.2021 16:04:14

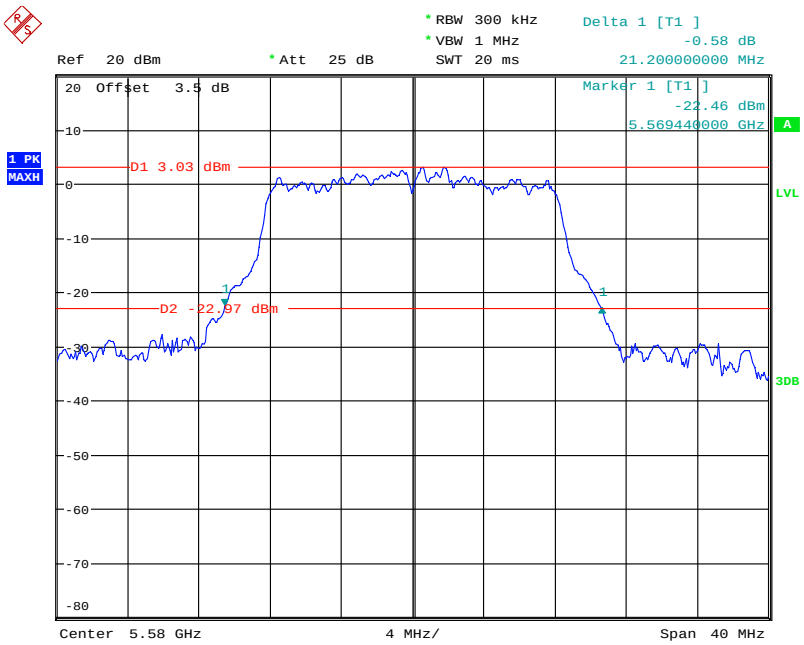
5470-5725 MHz:
26dB Emission Bandwidth:

802.11a Low Channel



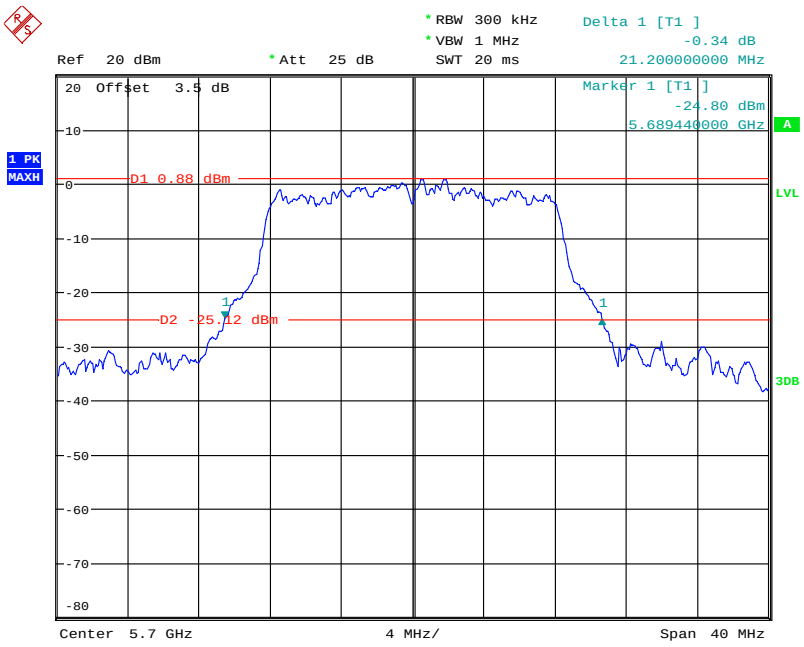
Date: 18.AUG.2021 16:25:42

802.11a Middle Channel



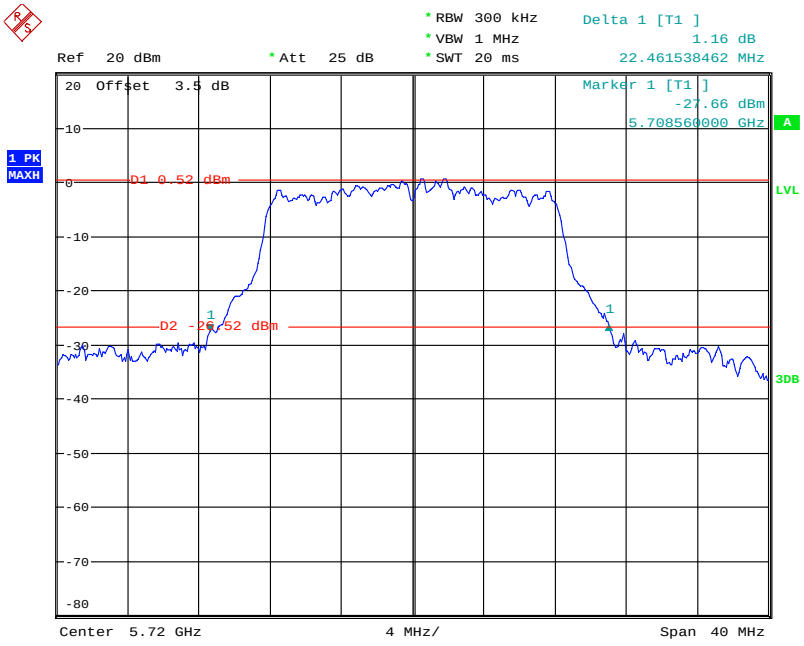
Date: 18.AUG.2021 16:26:55

802.11a High Channel



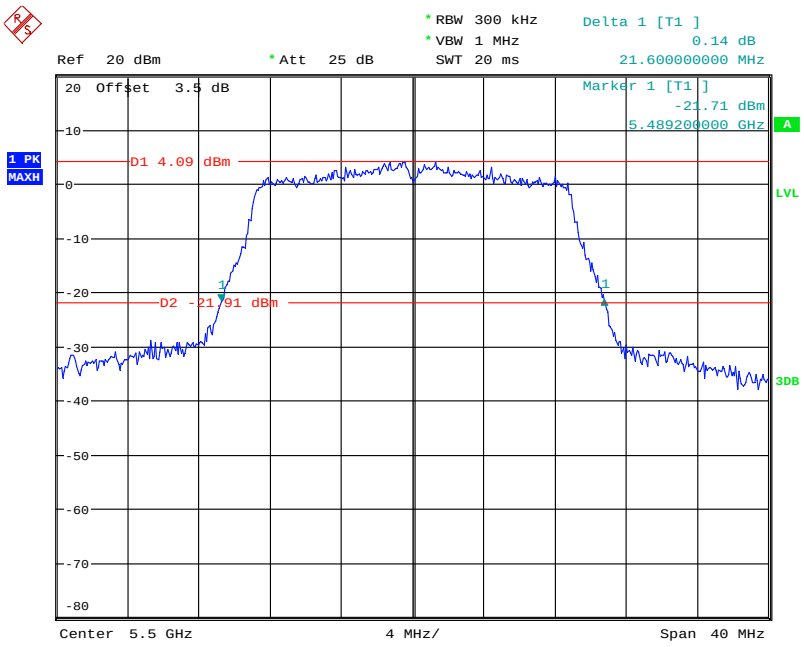
Date: 18.AUG.2021 16:29:14

additional



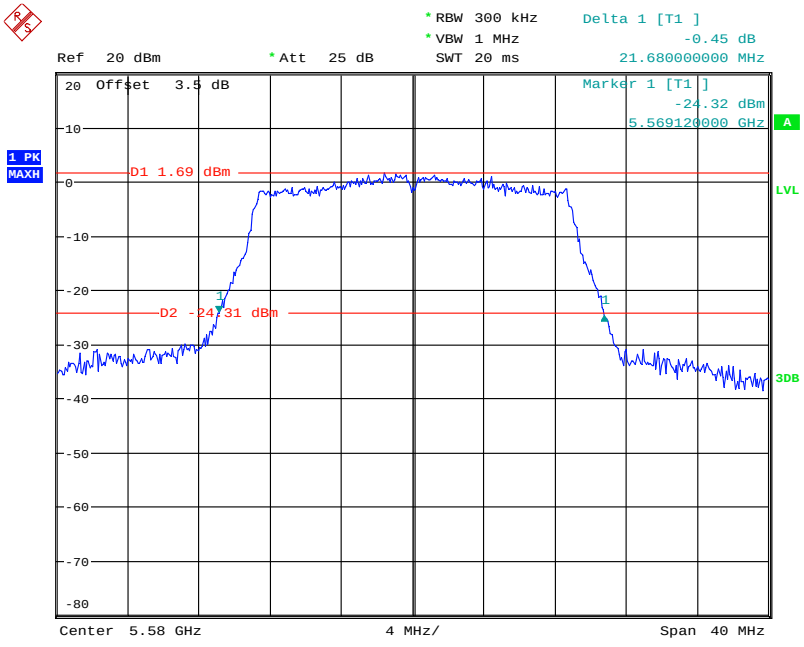
Date: 19.AUG.2021 18:14:02

802.11n ht20 Low Channel



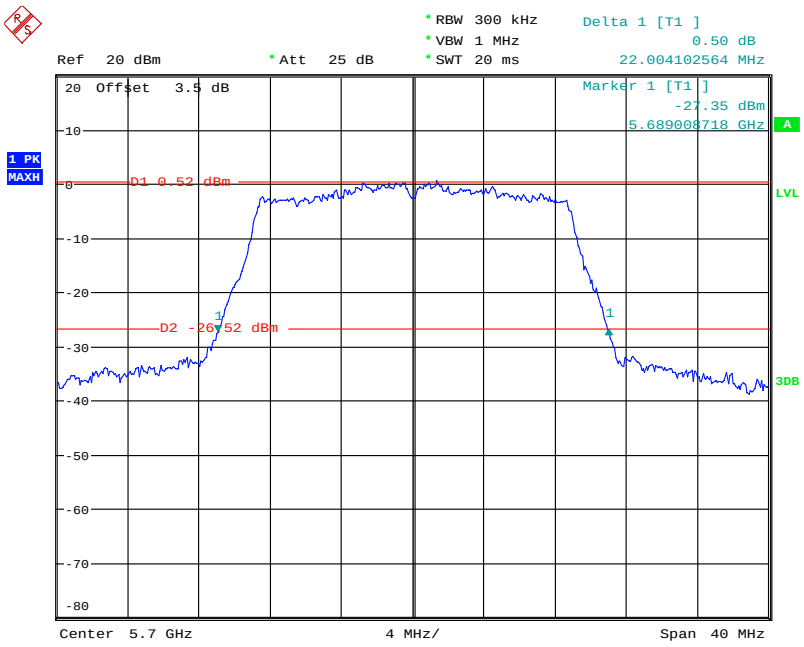
Date: 18.AUG.2021 16:33:53

802.11n ht20 Middle Channel



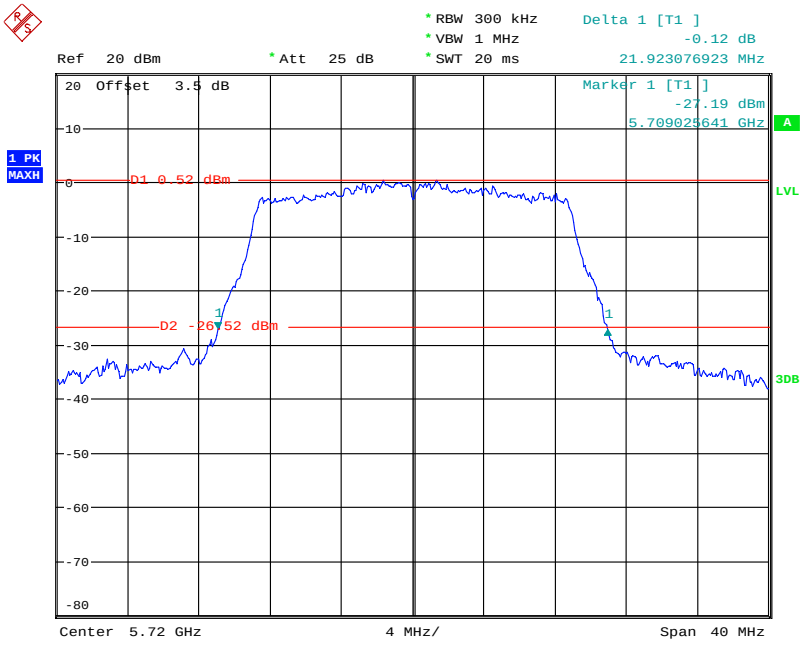
Date: 18.AUG.2021 16:32:34

802.11n ht20 High Channel



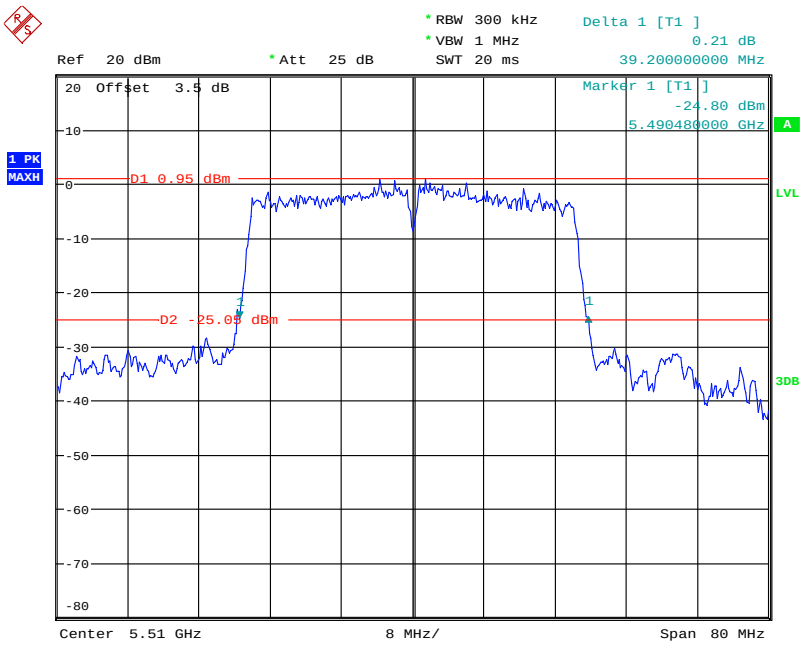
Date: 19.AUG.2021 18:16:27

additional



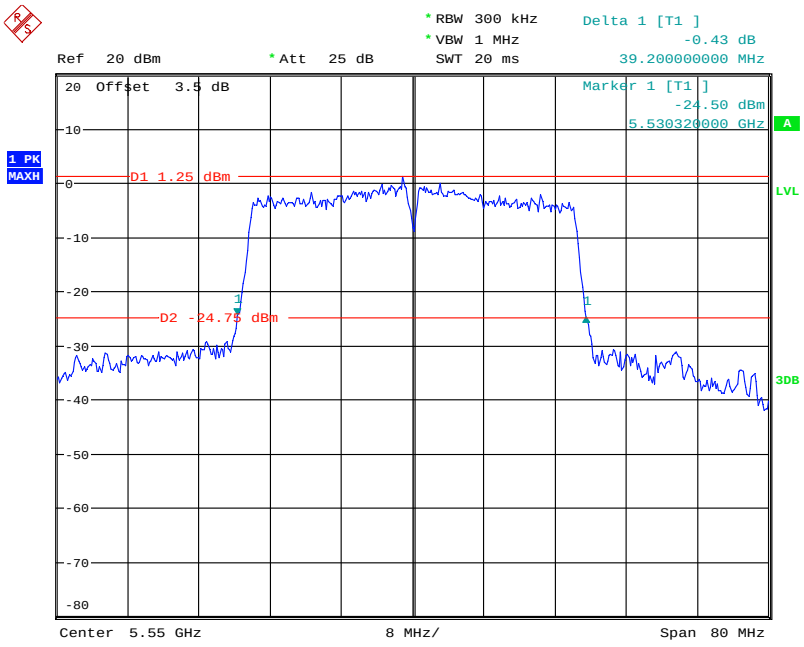
Date: 19.AUG.2021 18:18:50

802.11n ht40 Low Channel



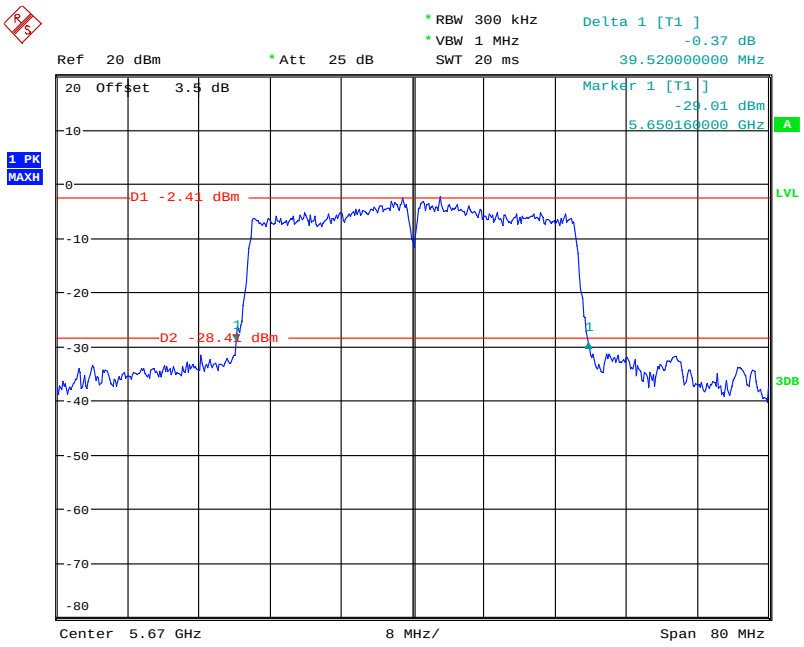
Date: 18.AUG.2021 16:37:02

802.11n ht40 Middle Channel



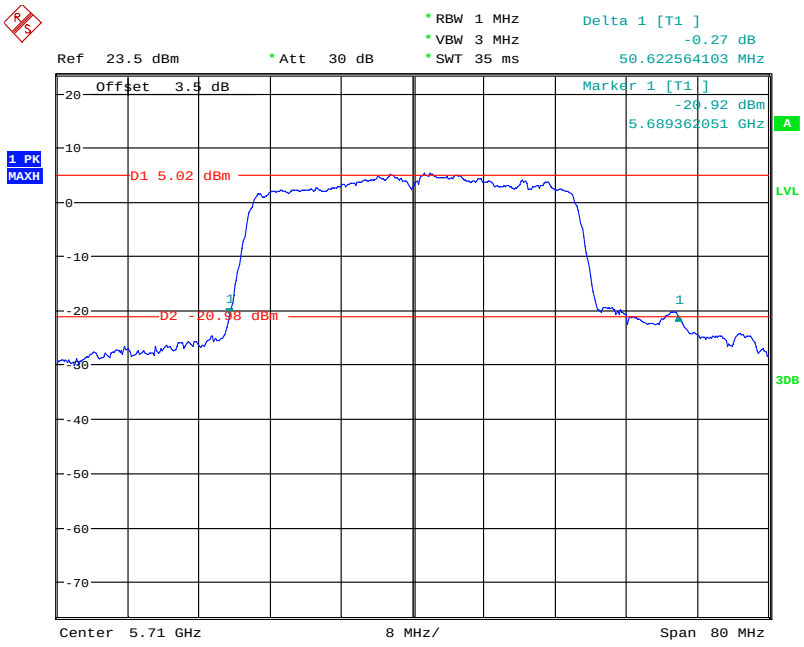
Date: 18.AUG.2021 16:39:04

802.11n ht40 High Channel



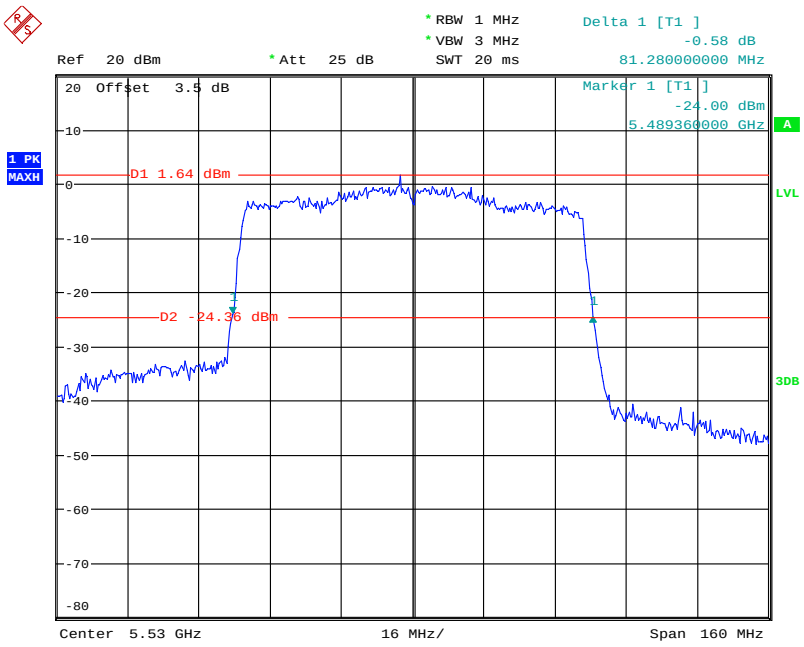
Date: 18.AUG.2021 16:40:22

additional



Date: 21.AUG.2021 16:10:01

802.11ac vht80 Low Channel



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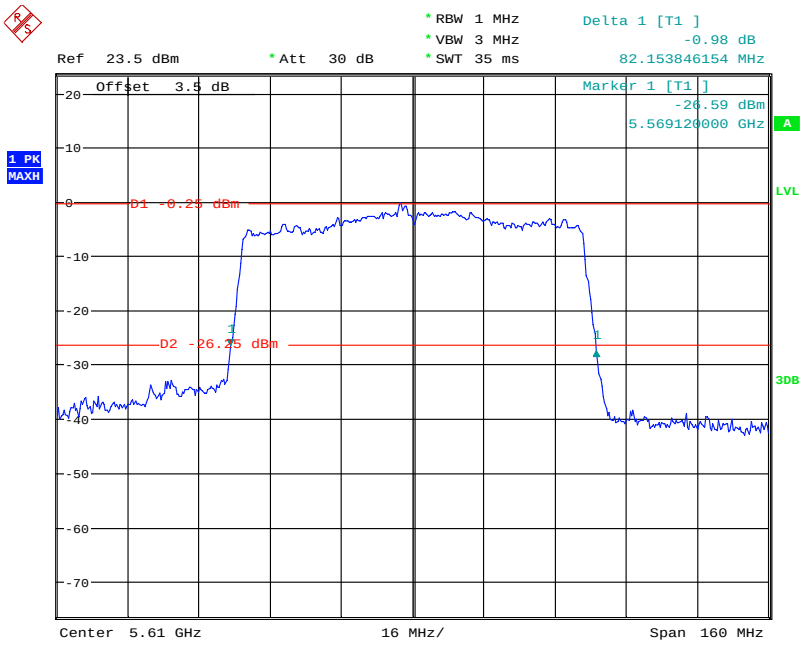
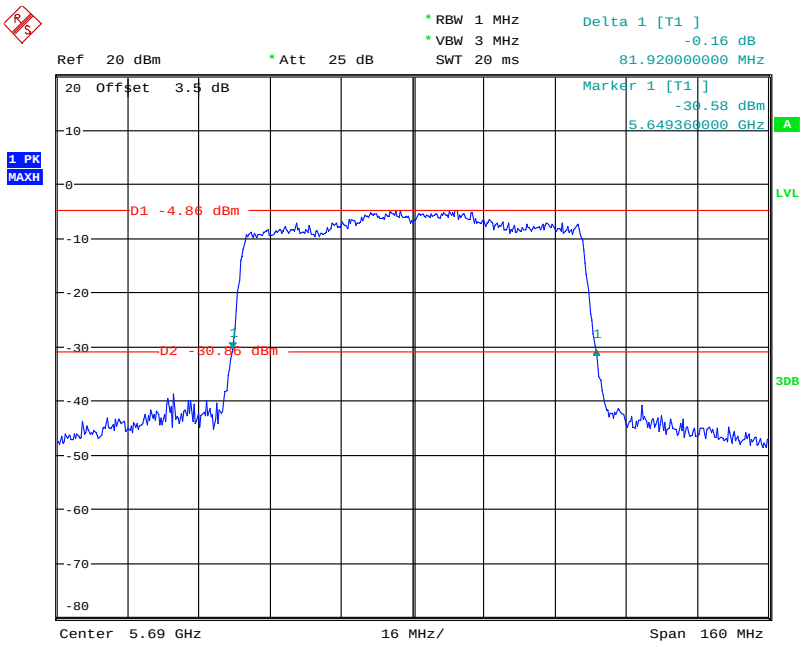
802.11ac vht80 Middle Channel



Date: 21.AUG.2021 16:06:50

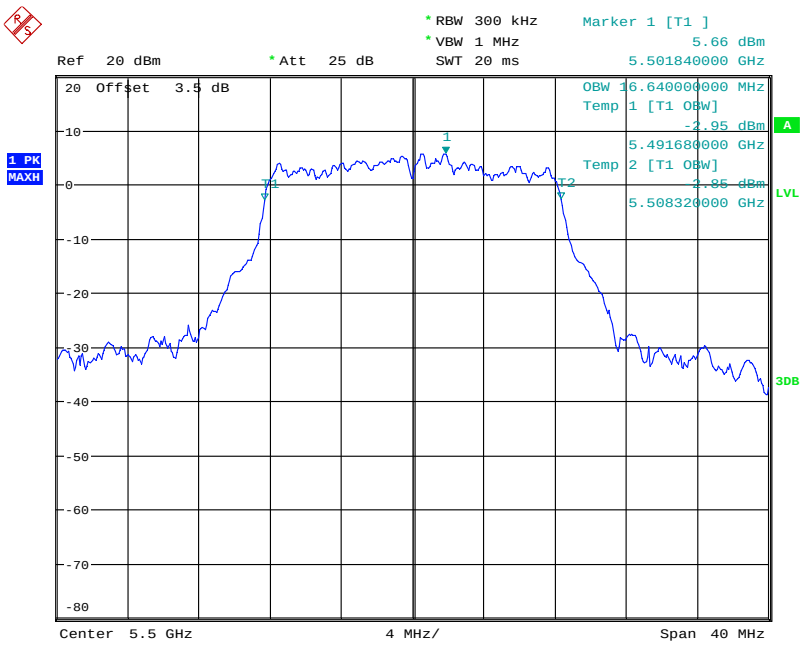
802.11ac vht80 Additional Channel



Date: 18.AUG.2021 16:45:29

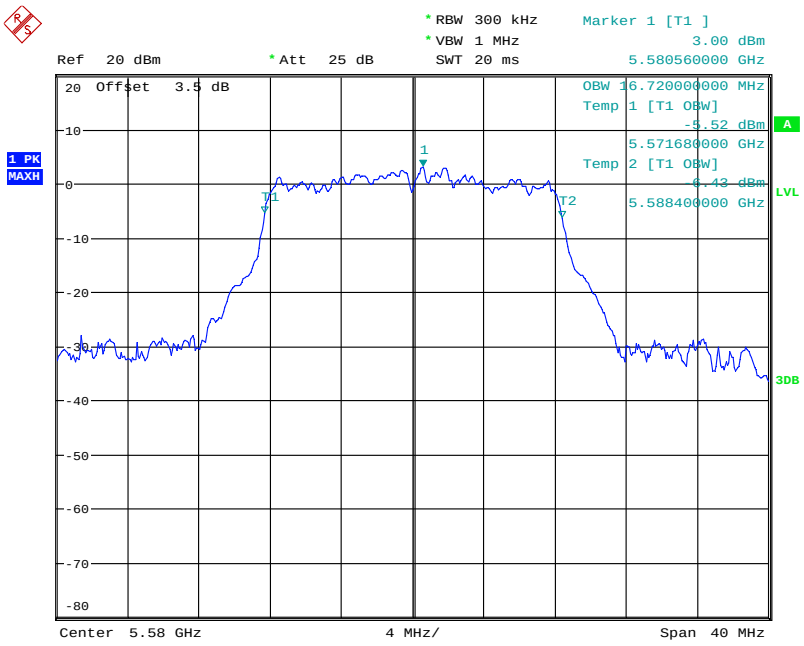
99% Occupied Bandwidth:

802.11a Low Channel



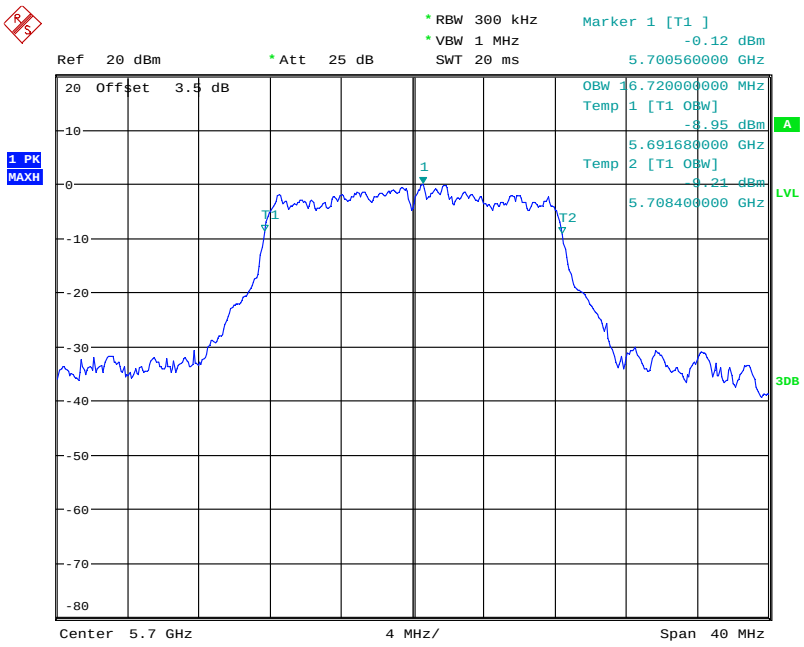
Date: 18.AUG.2021 16:25:53

802.11a Middle Channel



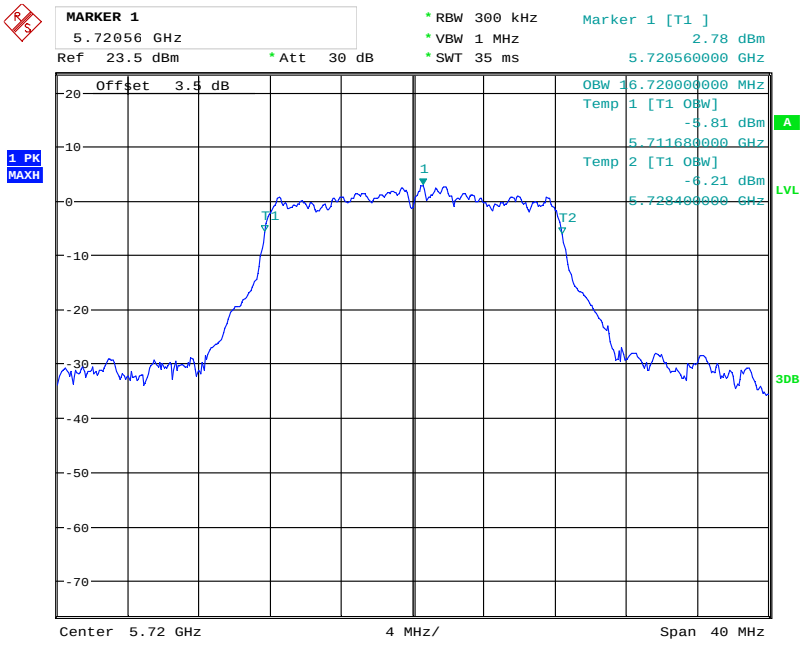
Date: 18.AUG.2021 16:27:06

802.11a High Channel



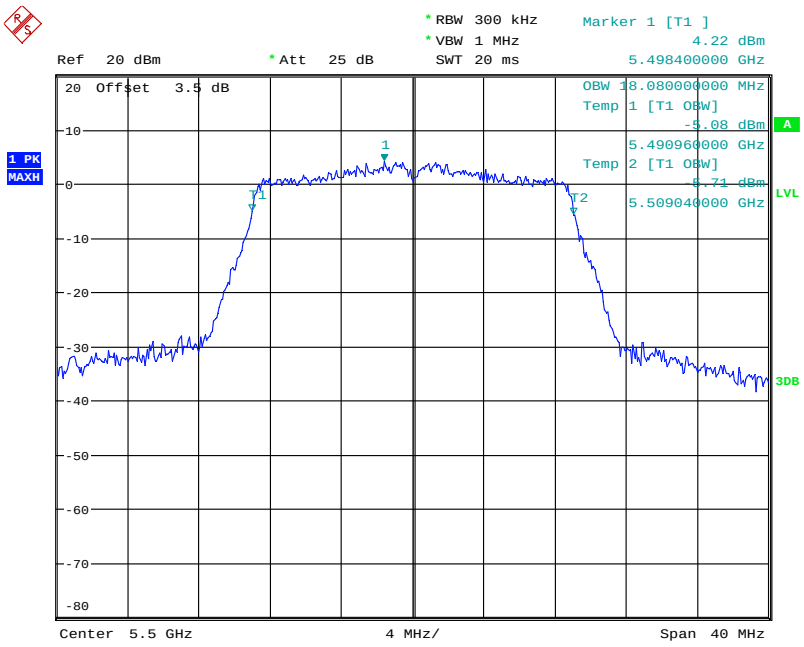
Date: 18.AUG.2021 16:29:29

additional



Date: 21.AUG.2021 16:13:29

802.11n ht20 Low Channel



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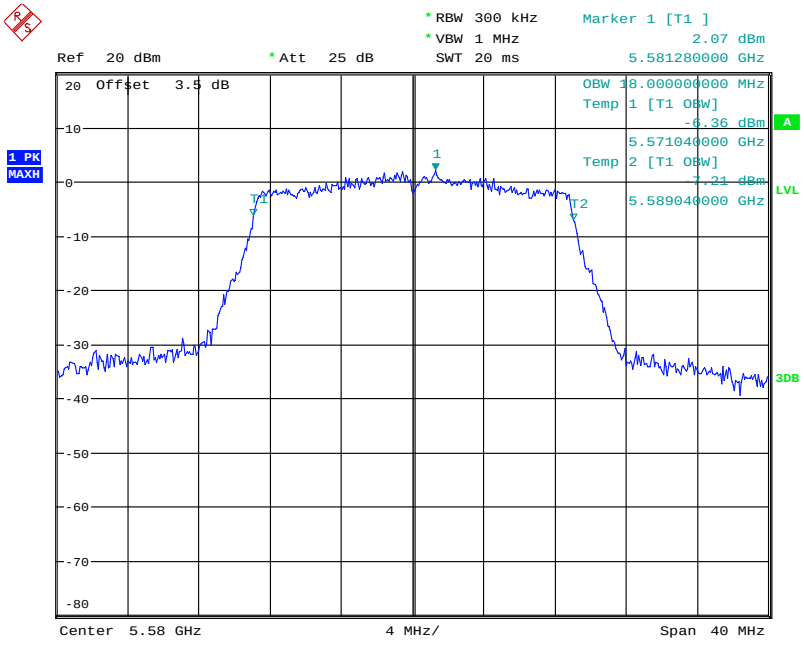
802.11n ht20 Middle Channel



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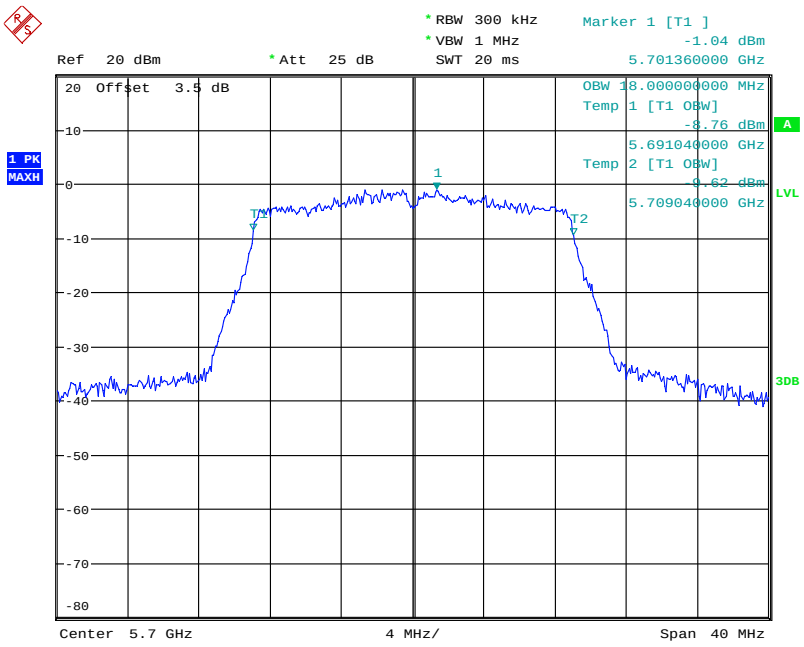
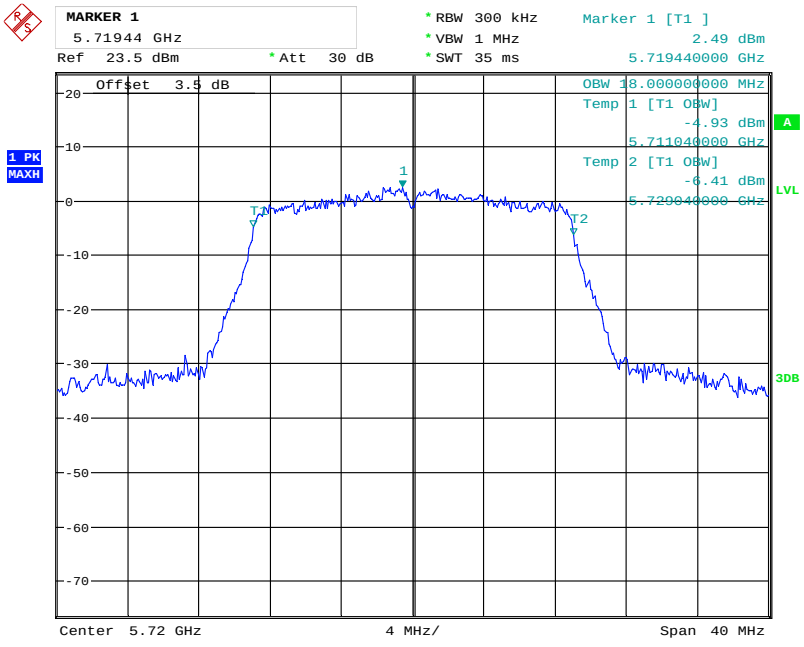
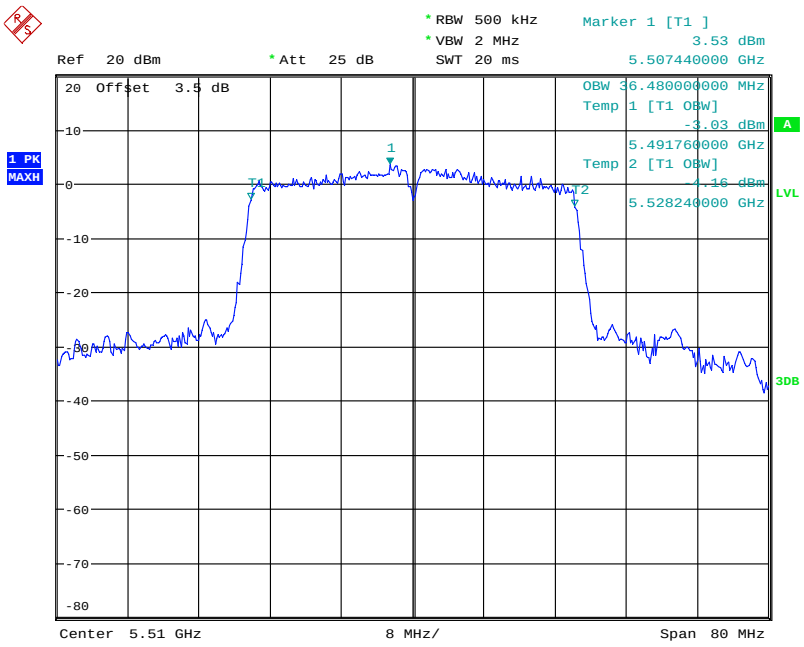
802.11n ht20 High Channel



additional

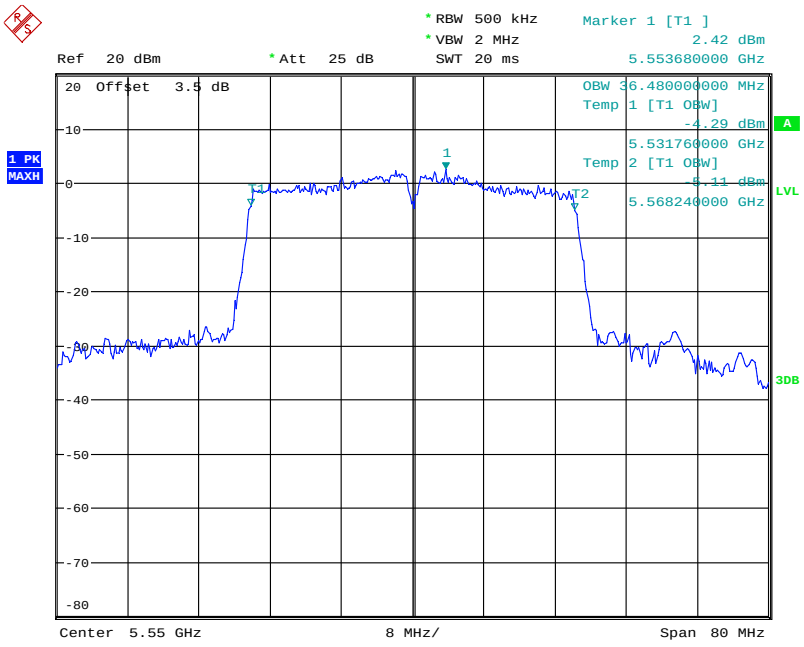


802.11n ht40 Low Channel



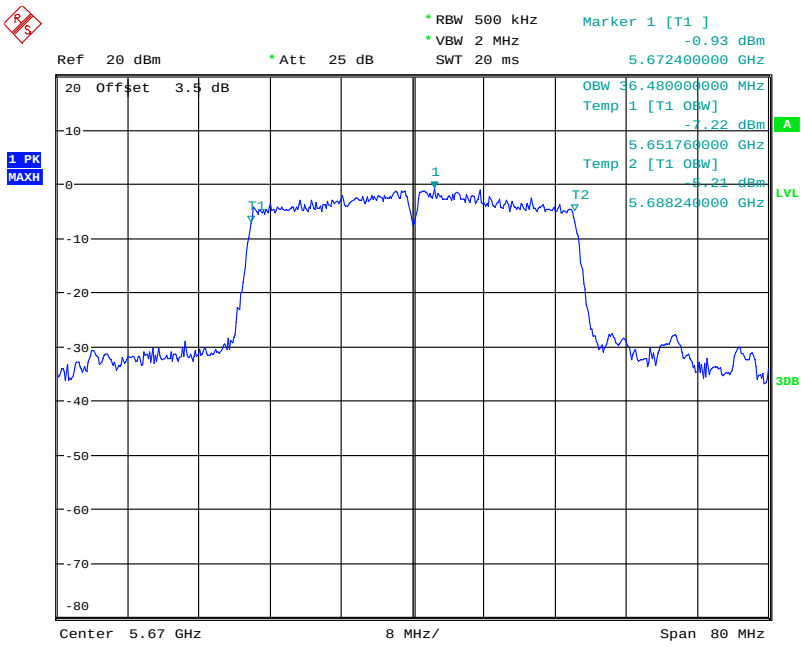
Date: 18.AUG.2021 16:37:16

802.11n ht40 Middle Channel



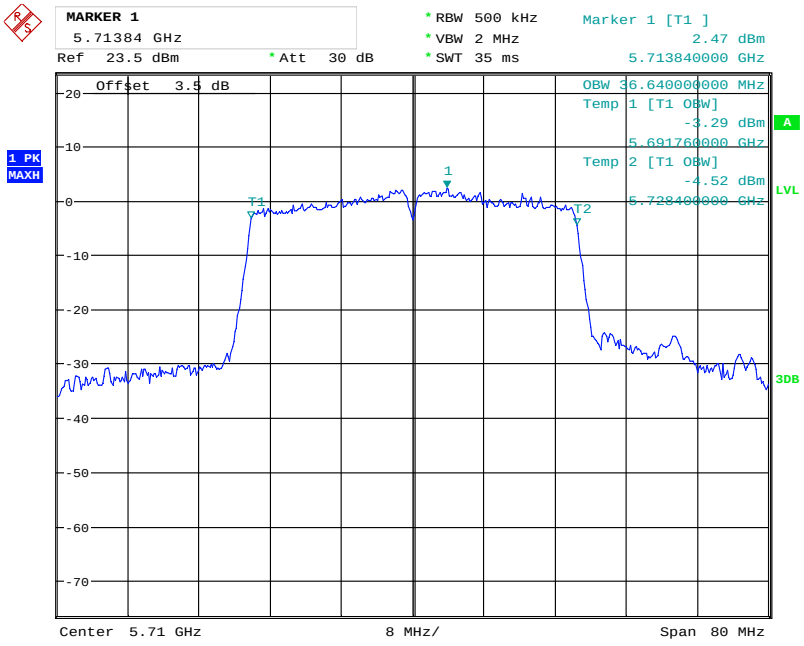
Date: 18.AUG.2021 16:39:18

802.11n ht40 High Channel



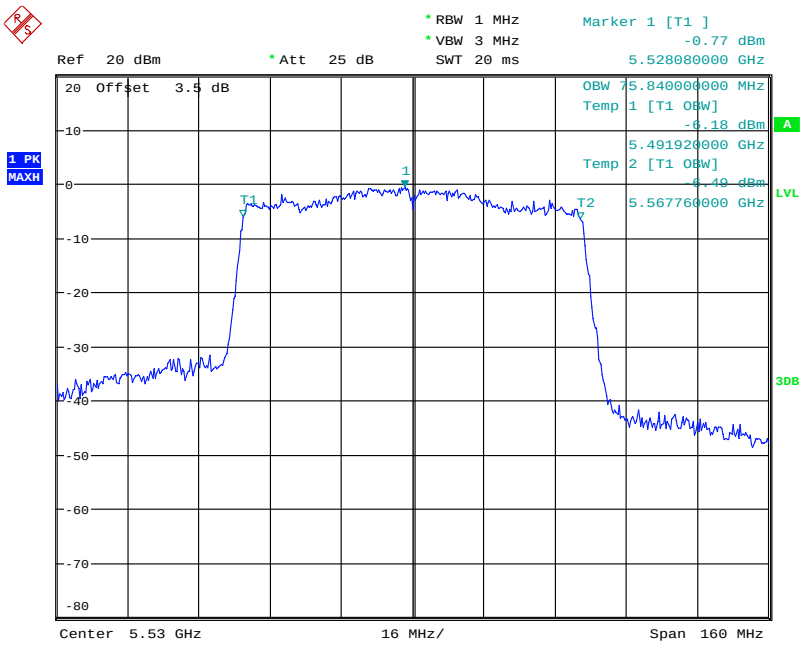
Date: 18.AUG.2021 16:40:37

802.11n ht40 Additional Channel



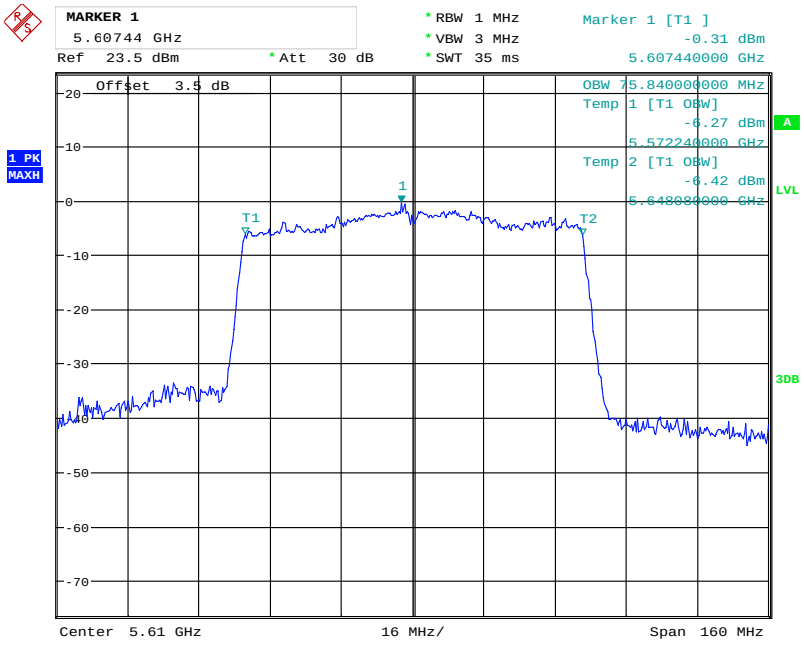
Date: 21.AUG.2021 16:15:44

802.11ac vht80 Low Channel



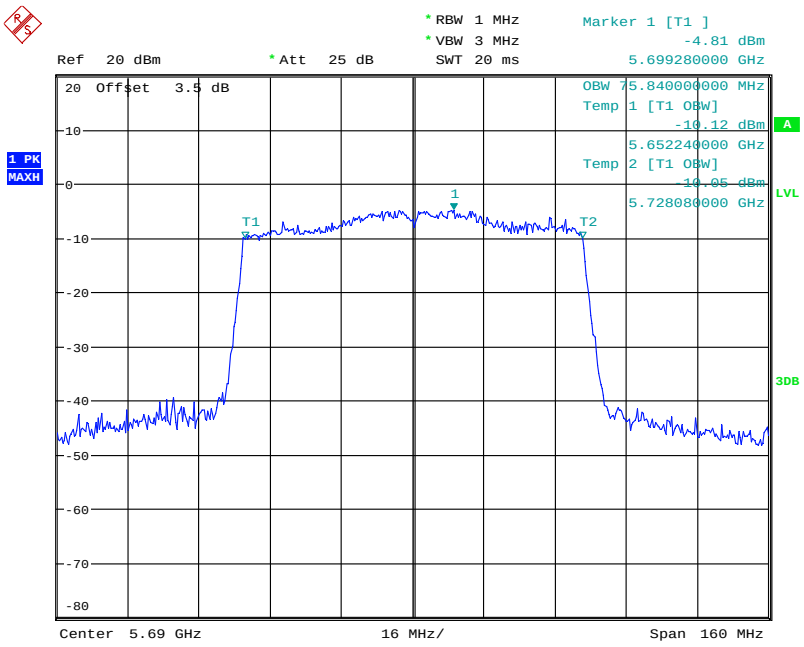
Date: 18.AUG.2021 16:44:06

802.11ac vht80 Middle Channel



Date: 21.AUG.2021 16:17:09

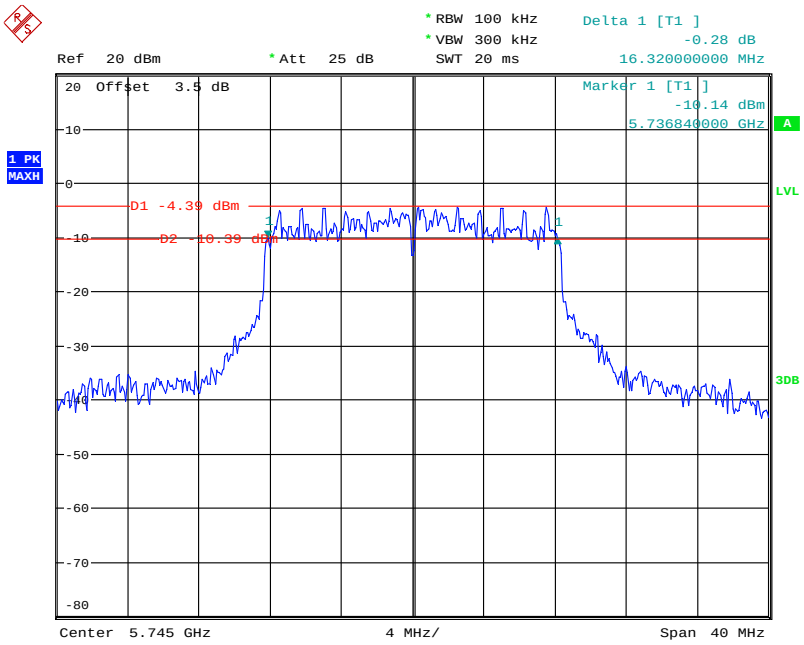
802.11ac vht80 High Channel



Date: 18.AUG.2021 16:45:47

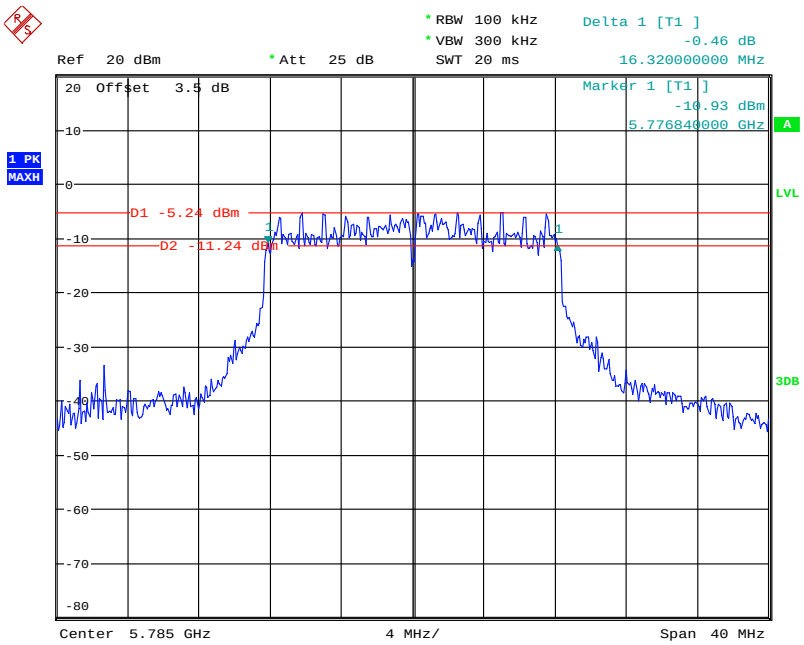
5725-5850MHz:
6dB Emission Bandwidth:

802.11a Low Channel



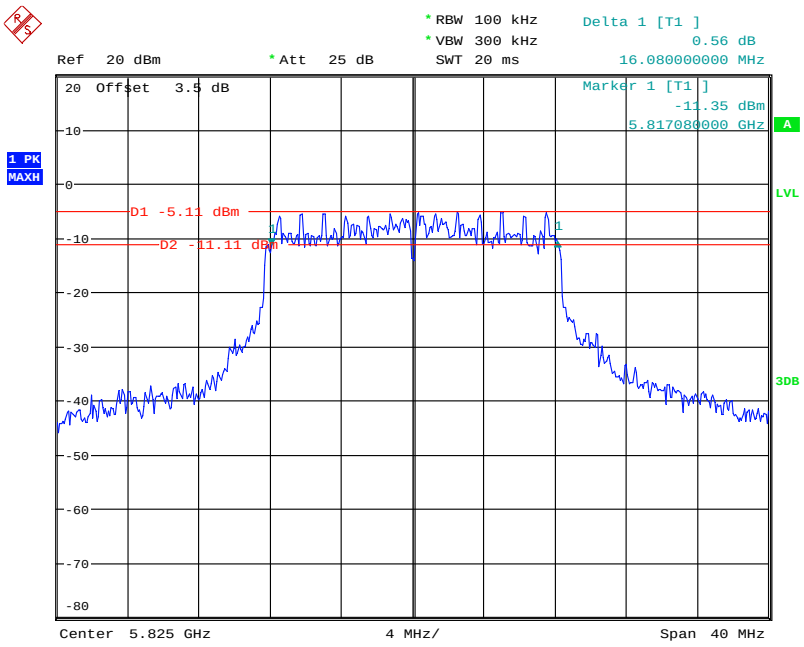
Date: 18.AUG.2021 17:18:33

802.11a Middle Channel



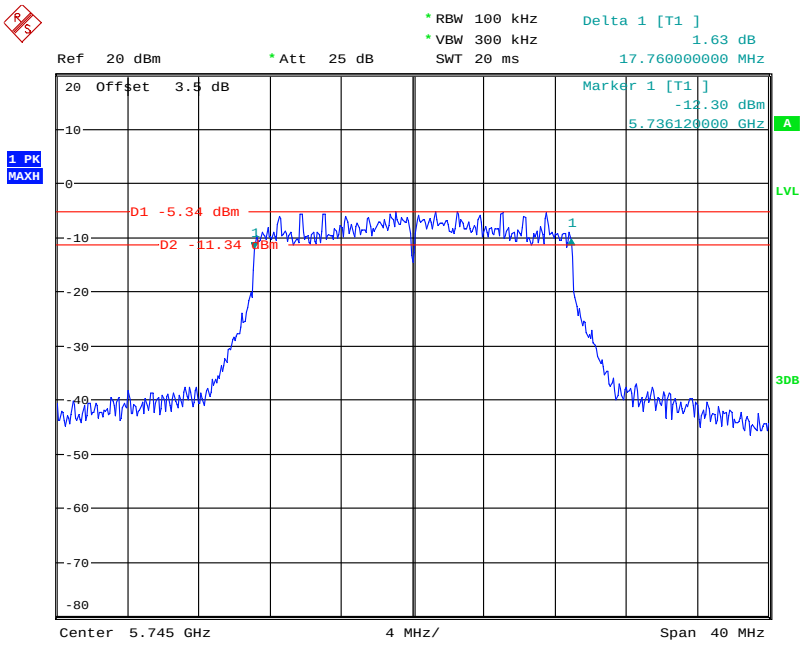
Date: 18.AUG.2021 17:23:00

802.11a High Channel



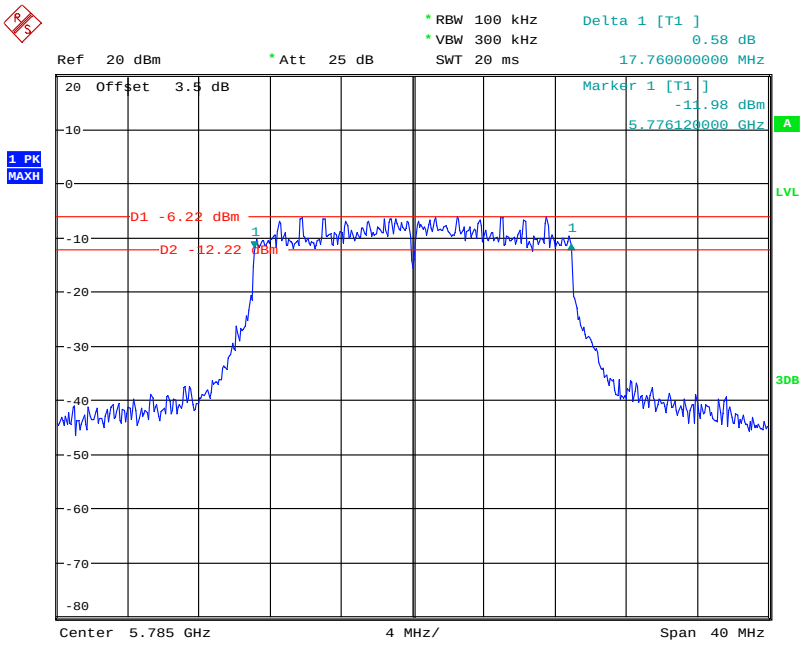
Date: 18.AUG.2021 17:25:30

802.11n ht20 Low Channel



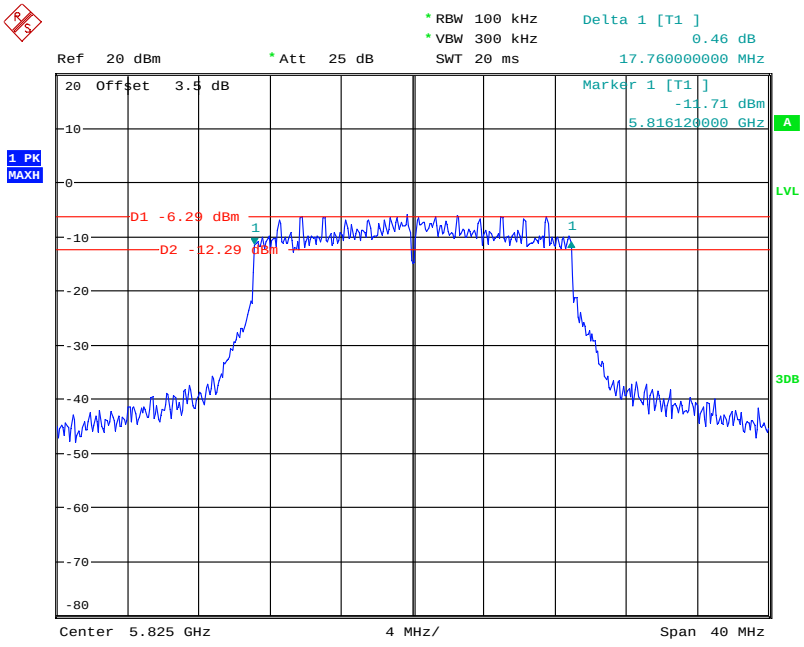
Date: 18.AUG.2021 17:21:33

802.11n ht20 Middle Channel



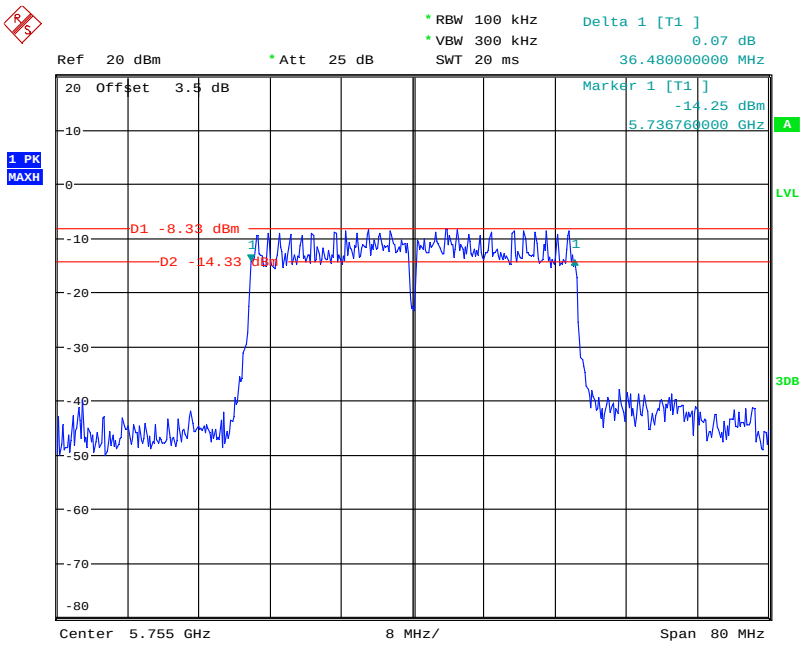
Date: 18.AUG.2021 17:22:27

802.11n ht20 High Channel



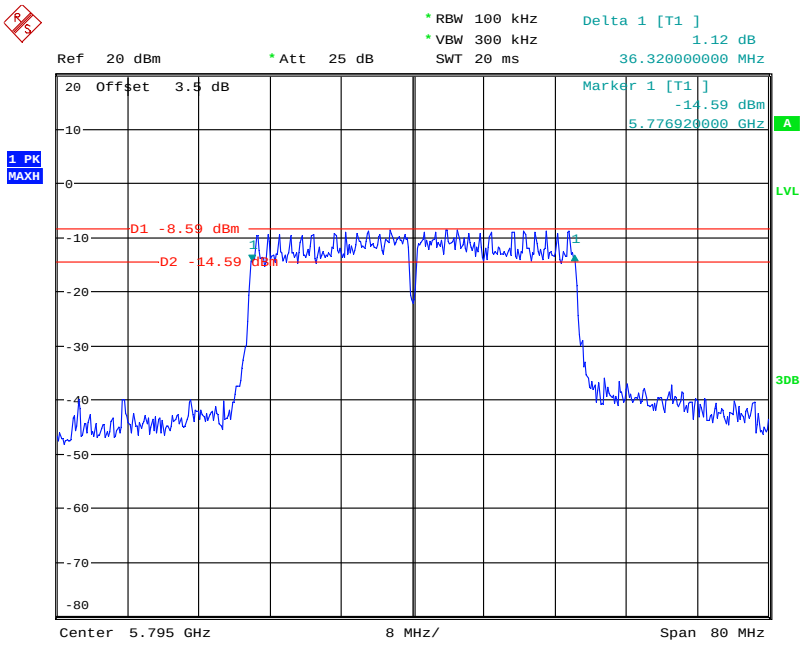
Date: 18.AUG.2021 17:26:12

802.11n ht40 Low Channel



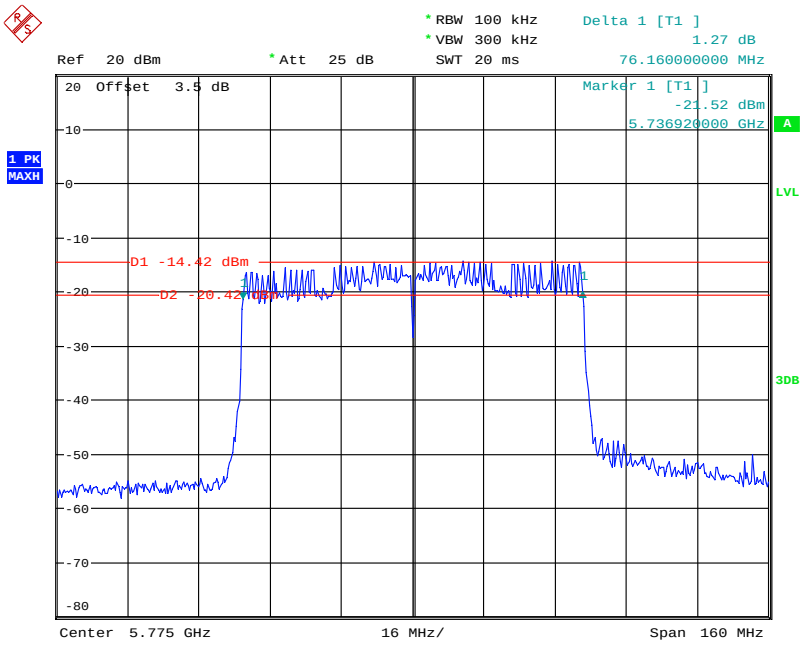
Date: 18.AUG.2021 17:16:35

802.11n ht40 High Channel



Date: 18.AUG.2021 17:16:03

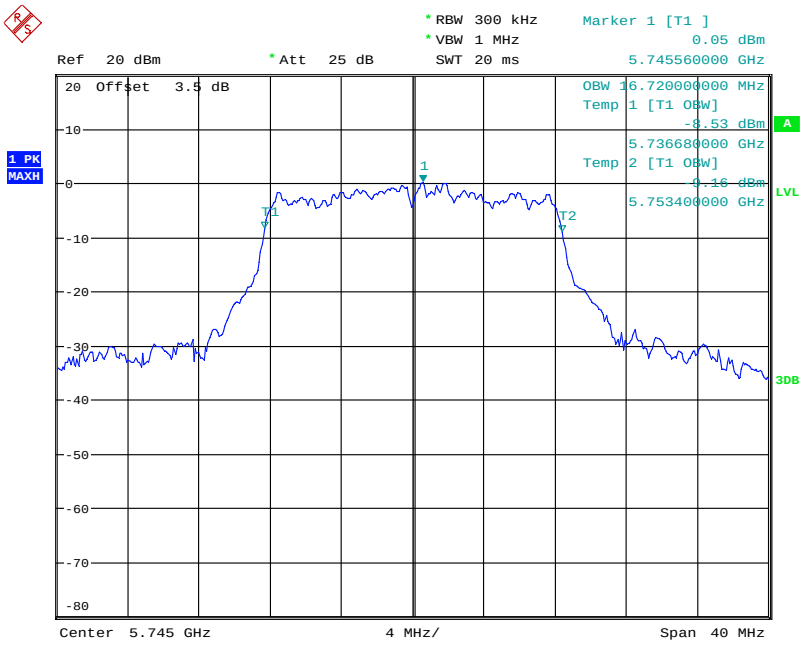
802.11ac vht80 Middle Channel



Date: 18.AUG.2021 17:17:40

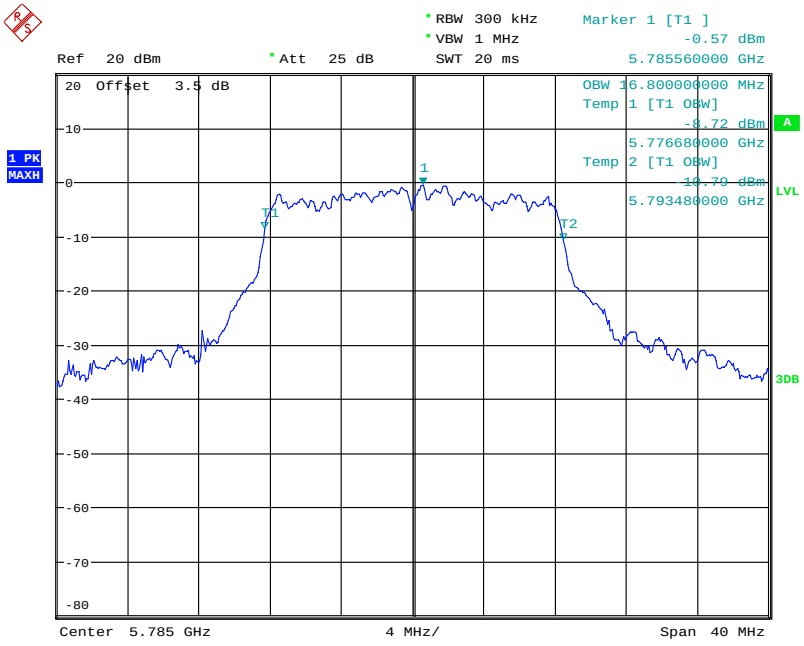
99% Occupied Bandwidth:

802.11a Low Channel



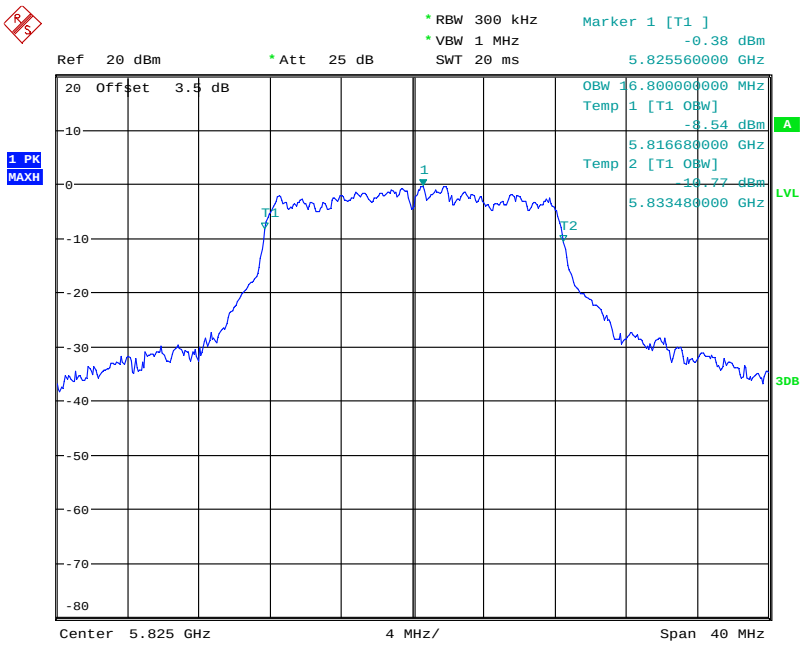
Date: 18.AUG.2021 17:02:52

802.11a Middle Channel



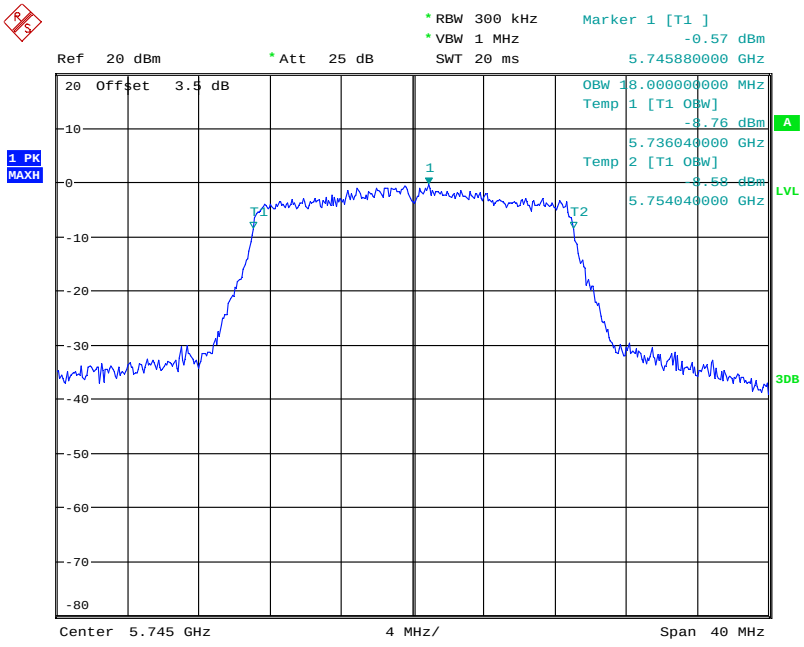
Date: 18.AUG.2021 17:04:16

802.11a High Channel



Date: 18.AUG.2021 17:06:05

802.11n ht20 Low Channel



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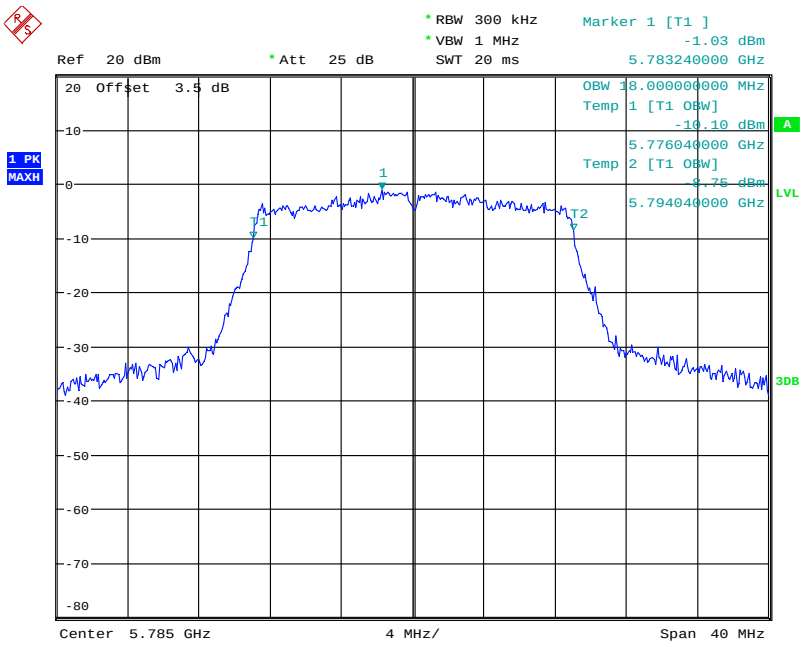
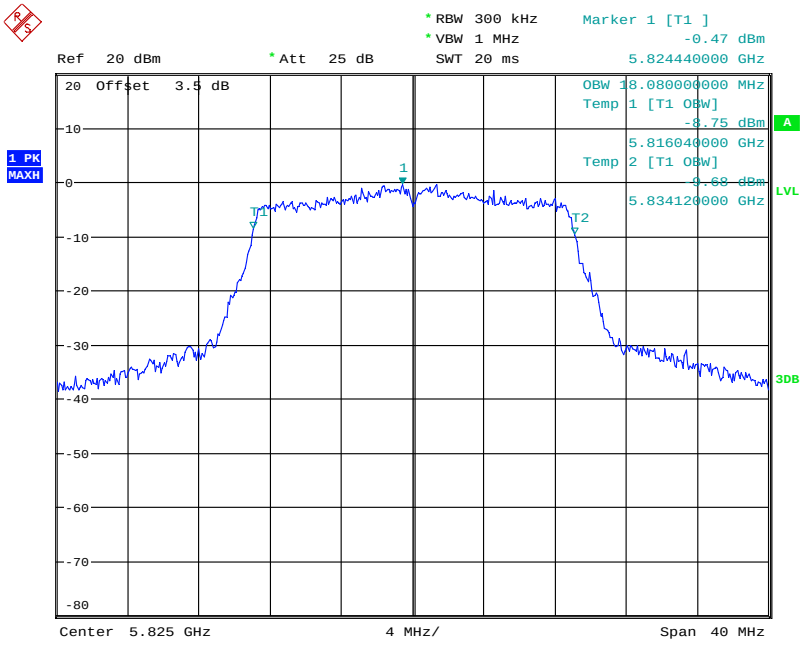


Date: 18.AUG.2021 17:08:28

802.11n ht20 High Channel



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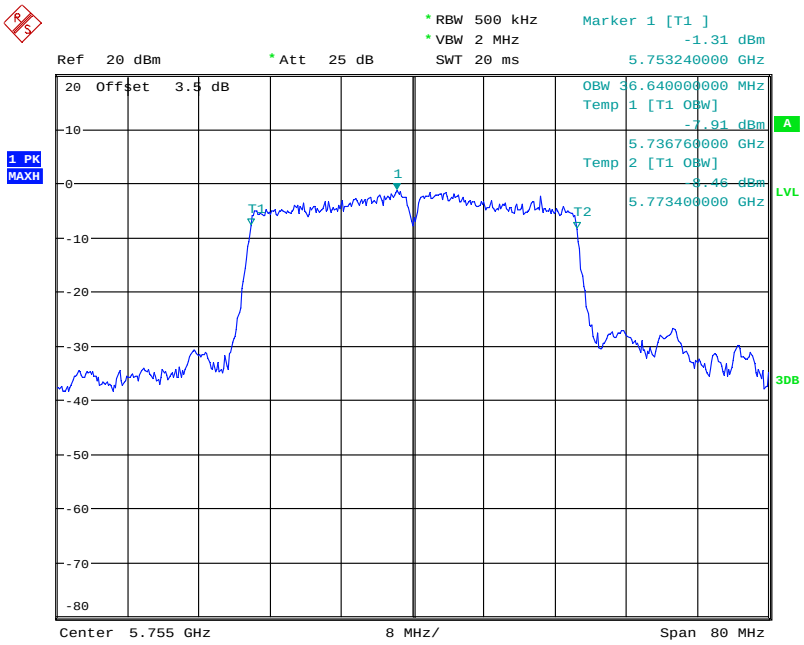
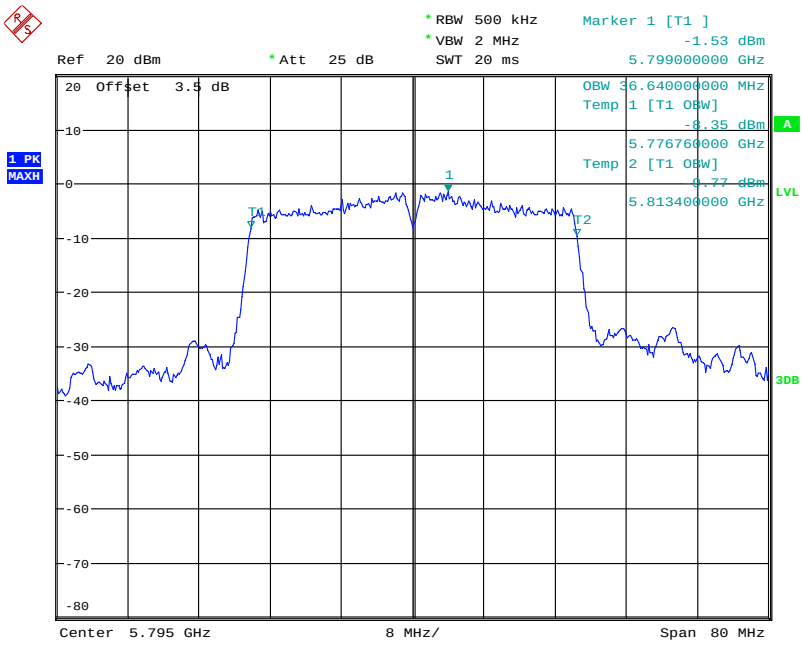
802.11n ht40 Low Channel



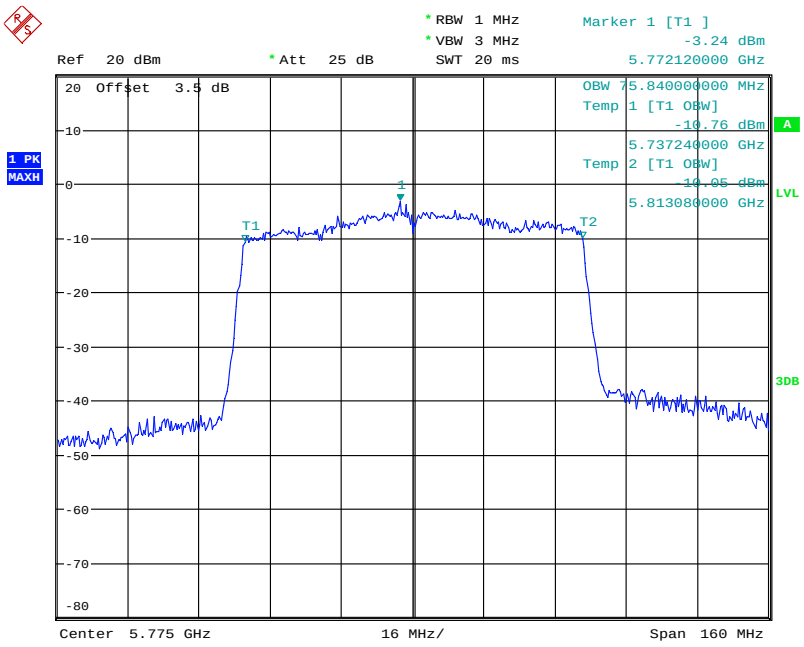
Date: 18.AUG.2021 17:12:51

802.11n ht40 High Channel



Date: 18.AUG.2021 17:13:58

802.11ac vht80 Middle Channel



Date: 18.AUG.2021 16:48:43

FCC §15.407(a) –MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

According to FCC §15.407(a)

(a) Power limits:

(1) For the band 5.15-5.25 GHz.

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. 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.

(iv) For mobile and portable 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.

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

(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.

(4) The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
E-Microwave	Coaxial Attenuators	EMCA10-5RN-6	OE01203239	Each time	N/A
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A
Agilent	USB Wideband Power Sensor	U2022XA	MY5417006	2020-09-12	2021-09-12

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

Test Procedure

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

Test Data

Environmental Conditions

Temperature:	27.4~27.8 °C
Relative Humidity:	67~69 %
ATM Pressure:	99.5~100.4kPa
Test by:	Joe Qiao
Test Date:	2021-08-18~2021-08-21

Test Mode: Transmitting

5150-5250 MHz:

Mode	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)	Limit
802.11 a	5180	11.31	24
	5200	11.36	24
	5240	11.57	24
802.11n ht20	5180	10.03	24
	5200	10.12	24
	5240	10.39	24
802.11n ht40	5190	10.1	24
	5230	9.94	24
802.11ac vht80	5210	9.68	24

5250-5350 MHz:

Mode	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)	Limit
802.11 a	5260	11.41	24
	5280	11.36	24
	5320	11.26	24
802.11n ht20	5260	10.23	24
	5280	10.56	24
	5320	10.26	24
802.11n ht40	5270	9.79	24
	5310	9.54	24
802.11ac vht80	5290	9.38	24

5470-5725 MHz:

Mode	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)	Limit
802.11 a	5500	11.51	24
	5580	11.62	24
	5700	10.52	24
	5720	10.51	24
802.11n ht20	5500	11.58	24
	5580	11.37	24
	5700	9.73	24
	5720	9.22	24
802.11n ht40	5510	11.42	24
	5550	11.37	24
	5670	10.45	24
	5710	10.36	24
802.11ac vht80	5530	9.13	24
	5610	9.15	24
	5690	9.16	24

5725-5850MHz:

Mode	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)	Limit
802.11 a	5745	11.02	30
	5785	10.14	30
	5825	9.42	30
802.11n ht20	5745	10.22	30
	5785	9.35	30
	5825	9.56	30
802.11n ht40	5755	9.81	30
	5795	9.34	30
802.11ac vht80	5775	8.13	30

Note: The maximum antenna gain is -3.0 dBi
The EUT is a client device.
The duty cycle factor has been calculated into the test data.

FCC §15.407(a) - POWER SPECTRAL DENSITY

Applicable Standard

According to FCC §15.407(a)

(a) Power limits:

(1) For the band 5.15-5.25 GHz.

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. 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.

(iv) For mobile and portable 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.

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

(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

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

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU 26	200256	2021-07-22	2022-07-21
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A

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

Test Data

Environmental Conditions

Temperature:	27.4~27.8 °C
Relative Humidity:	67~68 %
ATM Pressure:	100.3 kPa
Test by:	Joe Qiao
Test Date:	2021-08-18~2021-08-19

Test Mode: Transmitting

Test Result:Compliance.Please refer to the following table and plot.

5150-5250MHz:

Mode	Frequency (MHz)	Maximum Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)
802.11a	5180	1.53	11.0
	5200	1.47	11.0
	5240	1.73	11.0
802.11n ht20	5180	0.33	11.0
	5200	0.51	11.0
	5240	0.57	11.0
802.11n ht40	5190	-2.17	11.0
	5230	-2.20	11.0
802.11ac vht80	5210	-9.33	11.0

5250-5350MHz:

Mode	Frequency (MHz)	Maximum Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)
802.11a	5260	2.11	11.0
	5280	2.41	11.0
	5320	2.99	11.0
802.11n ht20	5260	1.04	11.0
	5280	1.26	11.0
	5320	1.76	11.0
802.11n ht40	5270	-1.99	11.0
	5310	-1.38	11.0
802.11ac vht80	5290	-8.47	11.0

5470-5725 MHz:

Mode	Frequency (MHz)	Maximum Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)
802.11a	5500	2.09	11.0
	5580	0.08	11.0
	5700	-2.26	11.0
	5720	-2.85	11.0
802.11n ht20	5500	0.91	11.0
	5580	-1.07	11.0
	5700	-4.11	11.0
	5720	-4.21	11.0
802.11n ht40	5510	-1.83	11.0
	5550	-2.97	11.0
	5670	-5.84	11.0
	5710	-6.45	11.0
802.11ac vht80	5530	-8.59	11.0
	5610	-14.75	11.0
	5690	-12.98	11.0

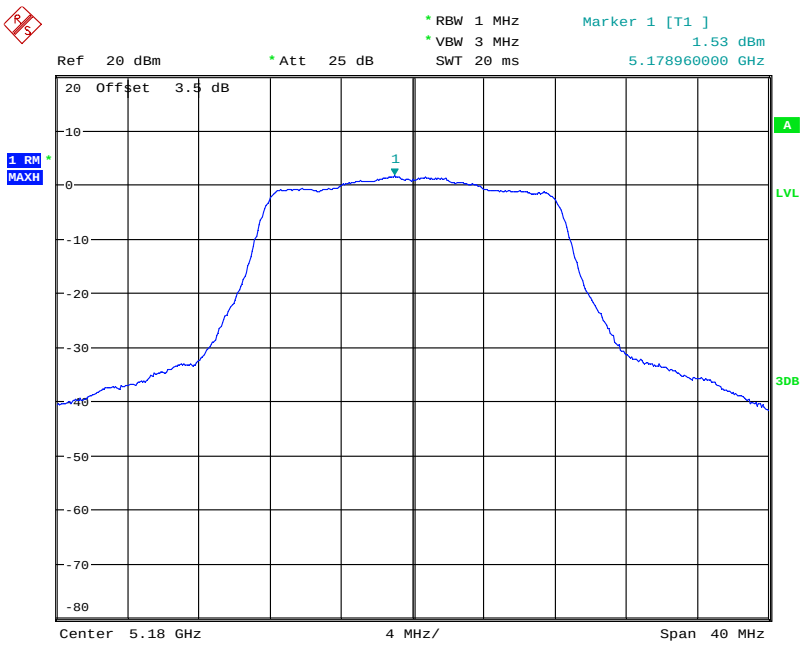
5725-5850 MHz:

Mode	Frequency (MHz)	Reading (dBm/300kHz)	Maximum Power Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)
802.11a	5745	-5.90	-3.68	30.0
	5785	-6.49	-4.27	30.0
	5825	-6.23	-4.01	30.0
802.11n ht20	5745	-7.15	-4.93	30.0
	5785	-7.58	-5.36	30.0
	5825	-7.30	-5.08	30.0
802.11n ht40	5755	-10.38	-8.16	30.0
	5795	-10.67	-8.45	30.0
802.11ac vht80	5775	-17.09	-14.87	30.0

Note:
The maximum antenna gain is -3.0 dBi in 5GHz band.
Method SA-3 in KDB 789033 D02 General UNII Test Procedures New Rules v02r01was used for PSD test.
For 5.8GHz band, If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result, whereas RBW (< 500 KHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.

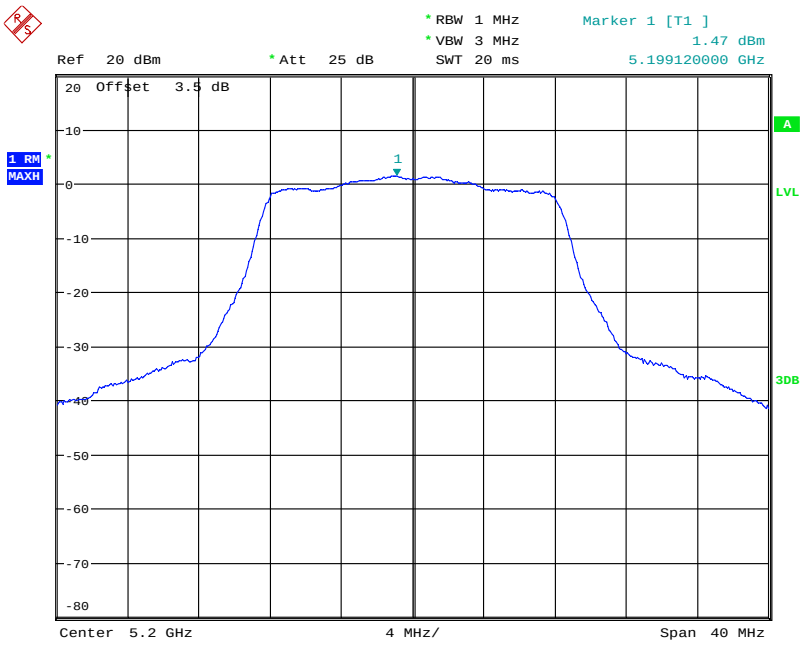
5150-5250MHz

802.11a Low Channel



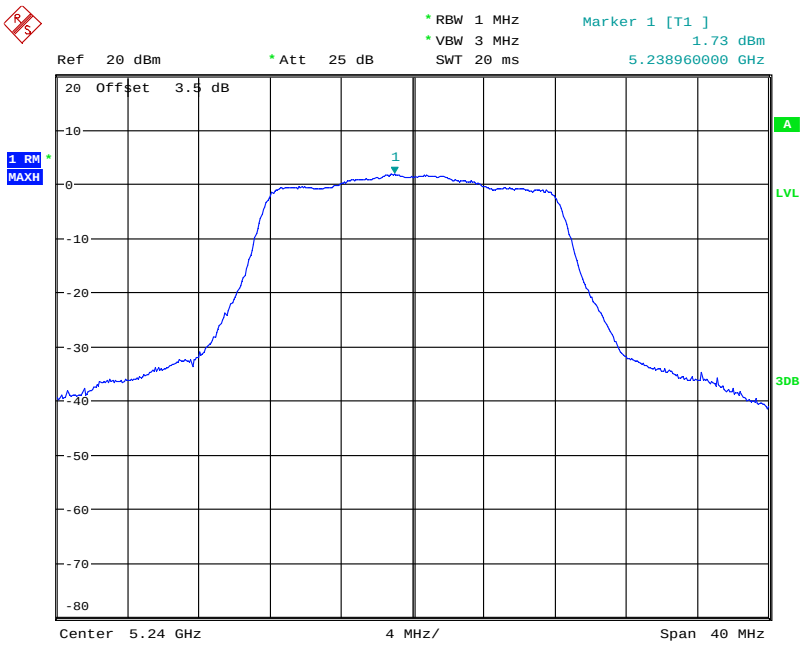
Date: 18.AUG.2021 15:27:46

802.11a Middle Channel



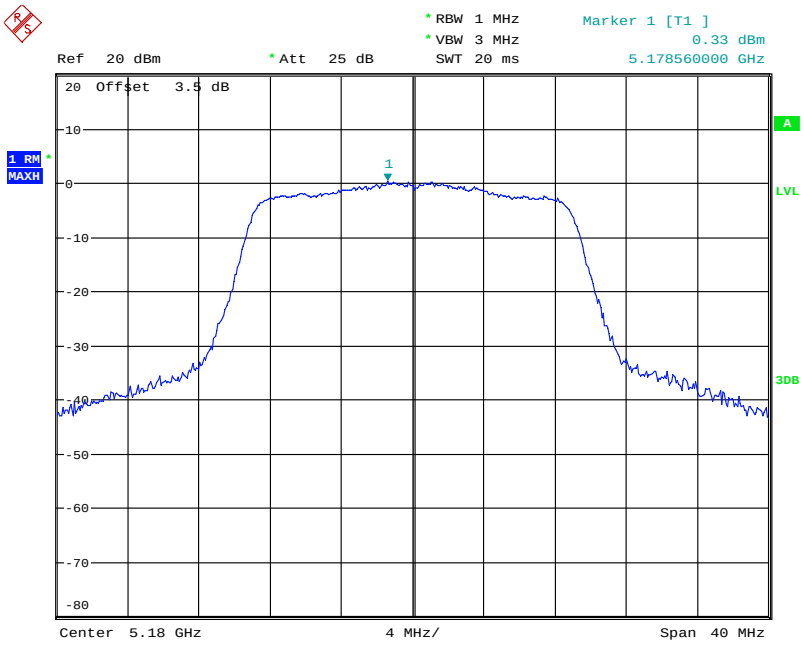
Date: 18.AUG.2021 15:29:22

802.11a High Channel



Date: 18.AUG.2021 15:42:19

802.11n ht20 Low Channel



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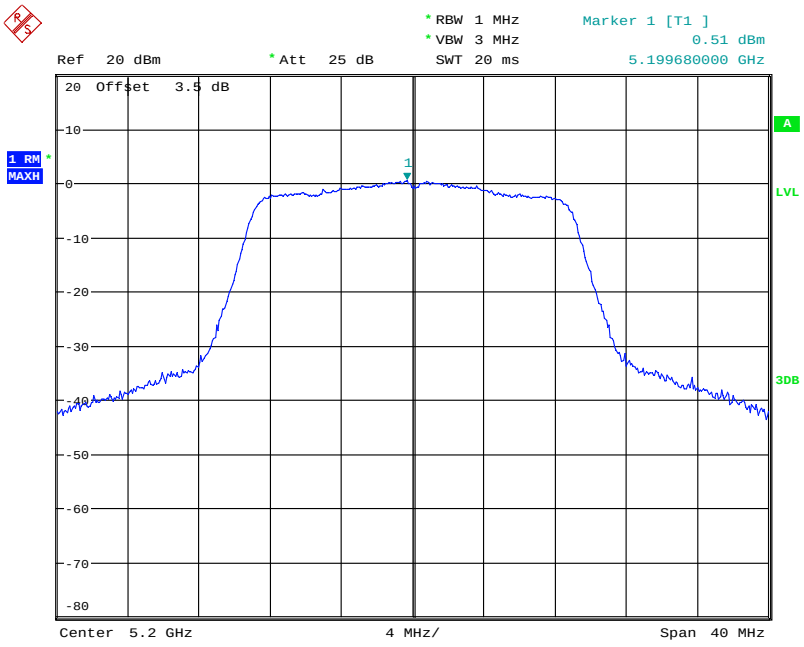
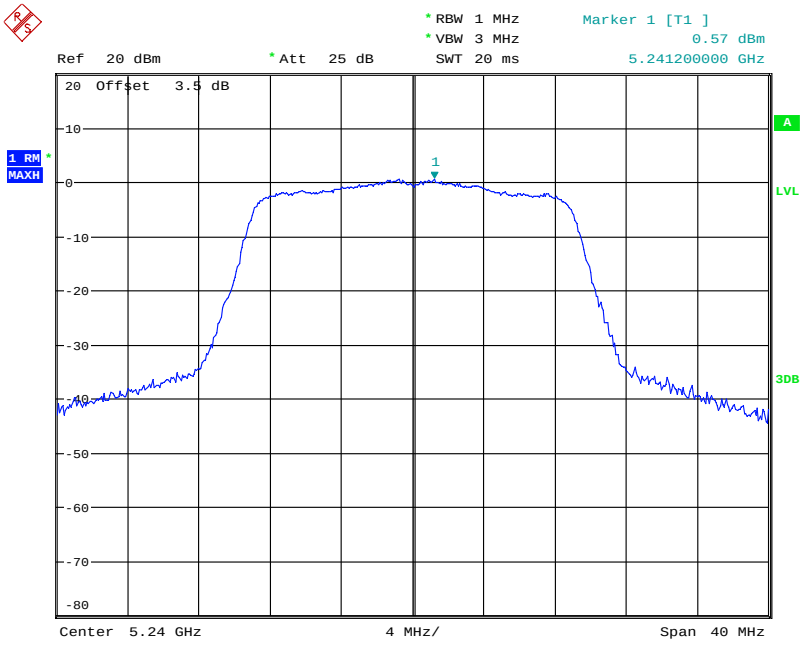
802.11n ht20 Middle Channel



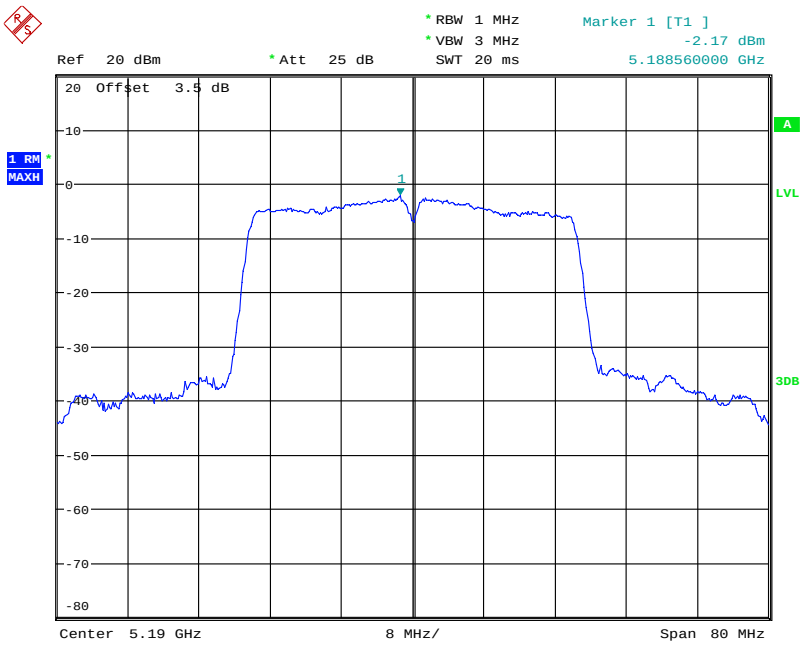
Date: 18.AUG.2021 15:45:01

802.11n ht20 High Channel



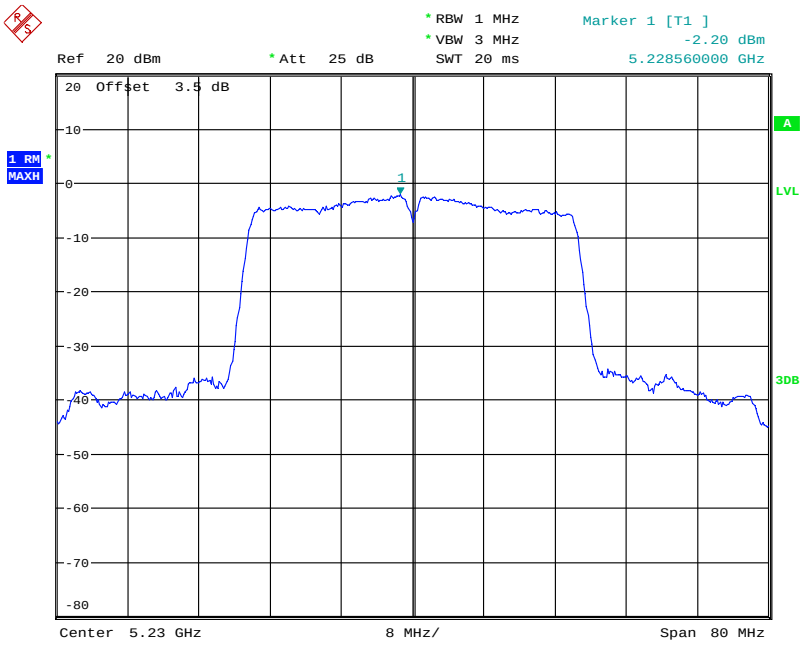
Date: 18.AUG.2021 15:43:43

802.11n ht40 Low Channel



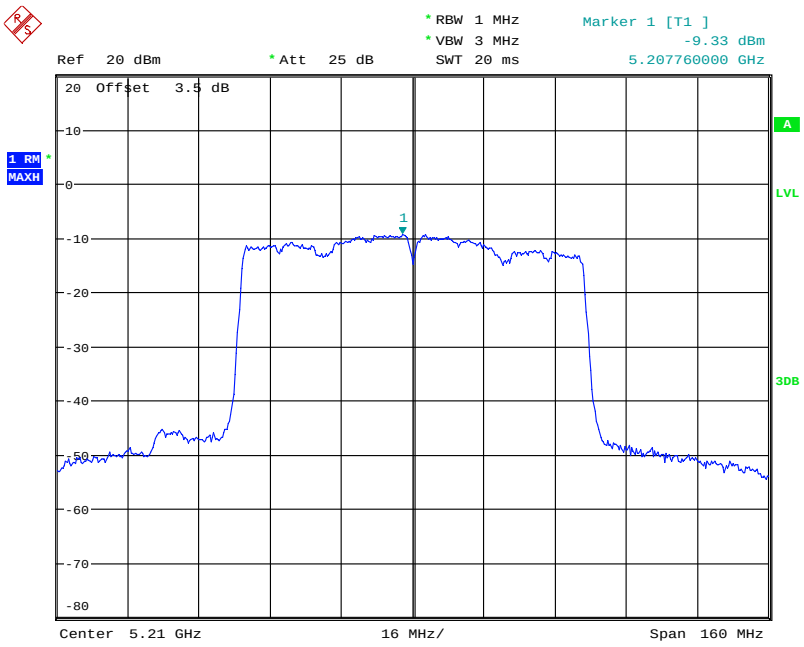
Date: 18.AUG.2021 15:50:39

802.11n ht40 High Channel



Date: 18.AUG.2021 15:51:47

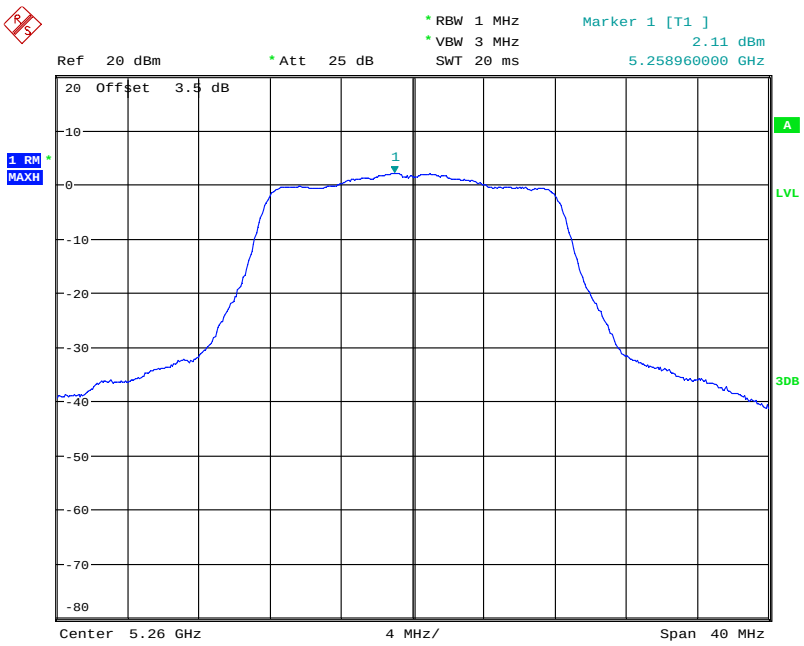
802.11ac vht80 Middle Channel



Date: 18.AUG.2021 16:02:17

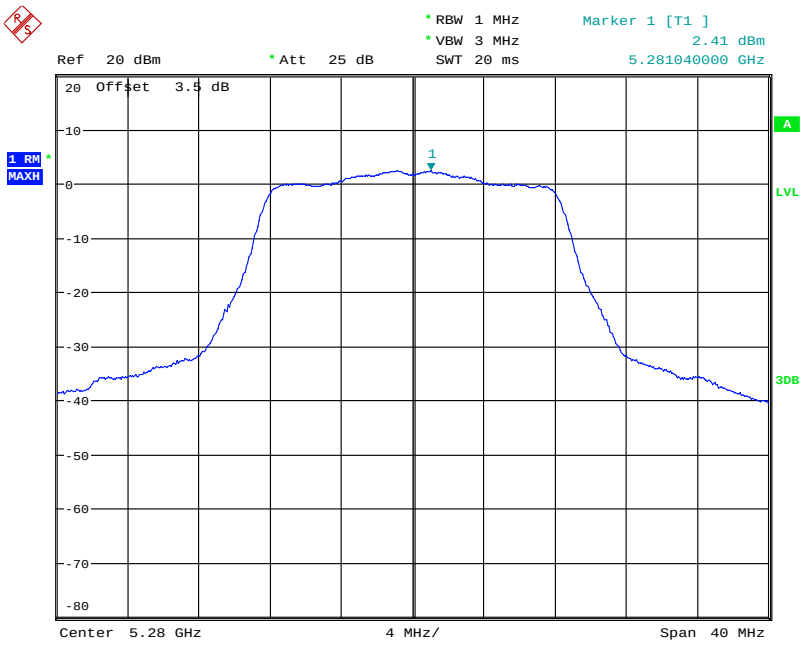
5250-5350MHz

802.11a Low Channel



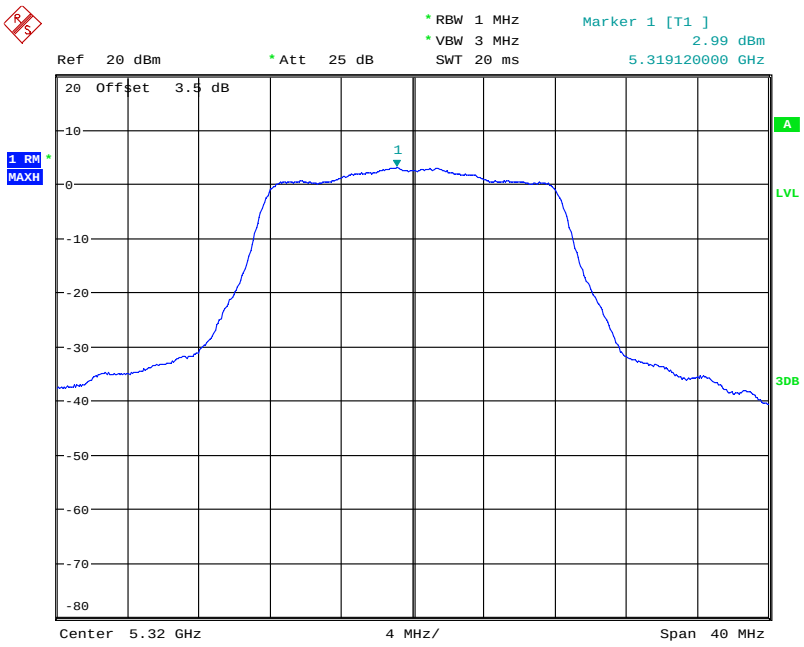
Date: 18.AUG.2021 16:05:45

802.11a Middle Channel



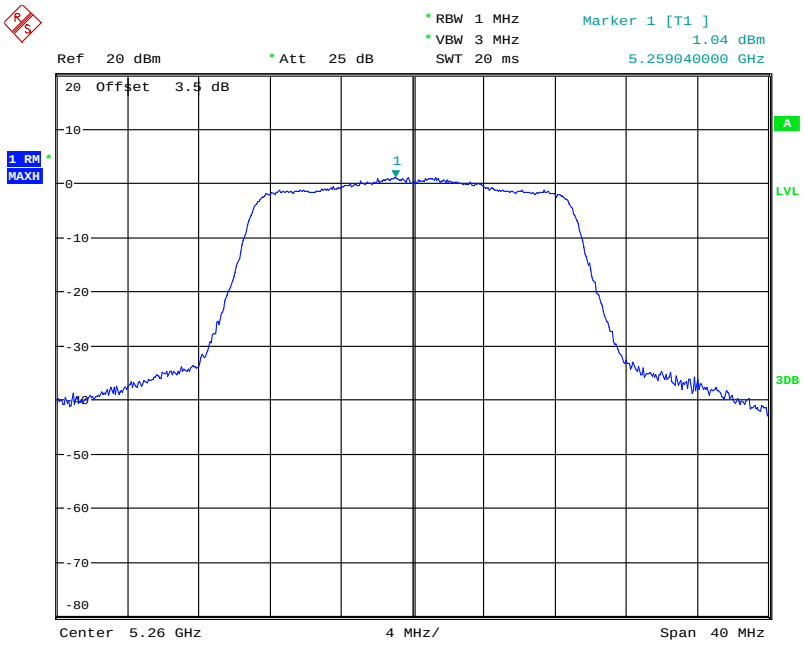
Date: 18.AUG.2021 16:06:43

802.11a High Channel



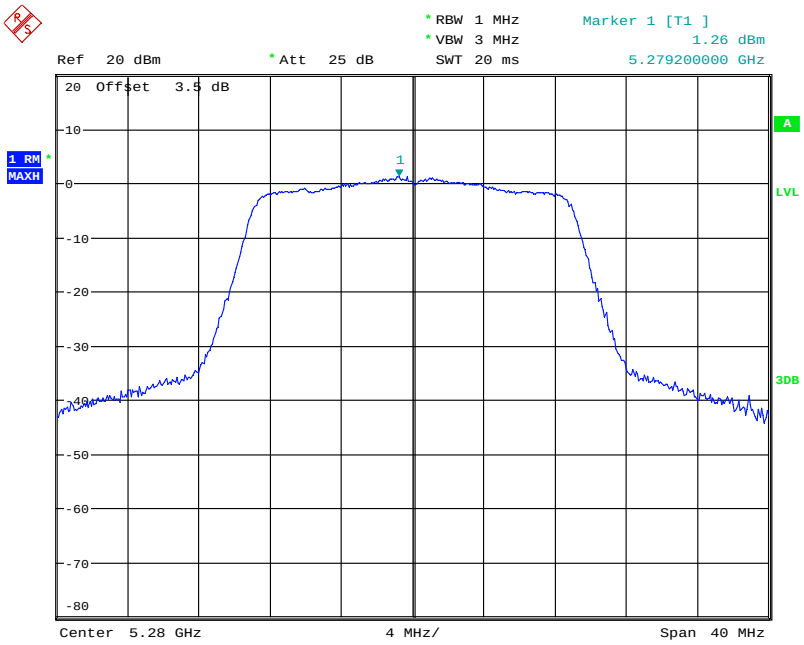
Date: 18.AUG.2021 16:08:18

802.11n ht20 Low Channel



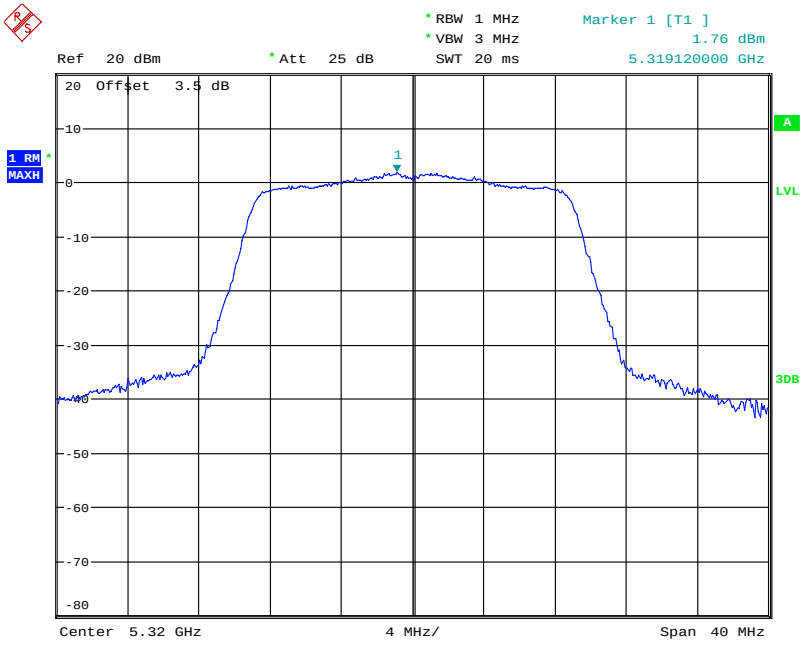
Date: 18.AUG.2021 16:12:56

802.11n ht20 Middle Channel



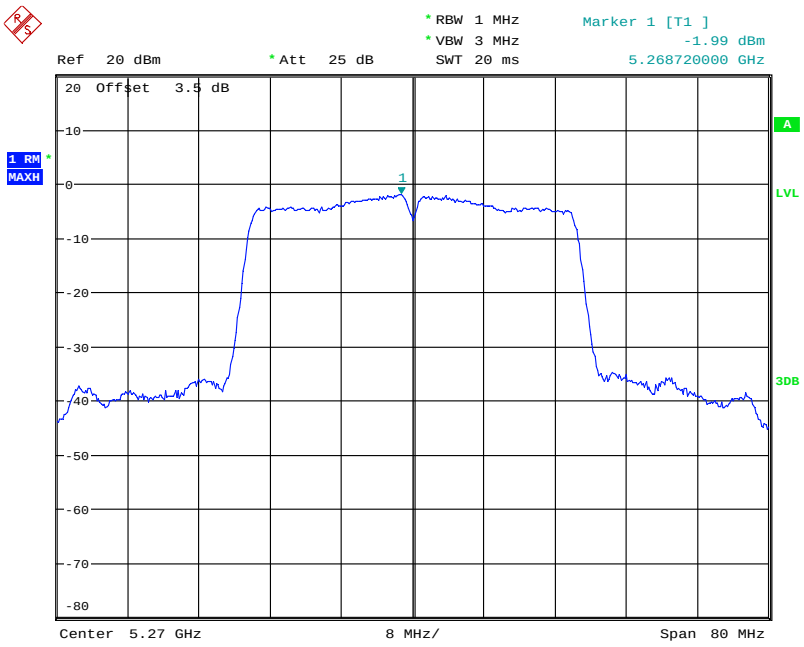
Date: 18.AUG.2021 16:11:34

802.11n ht20 High Channel



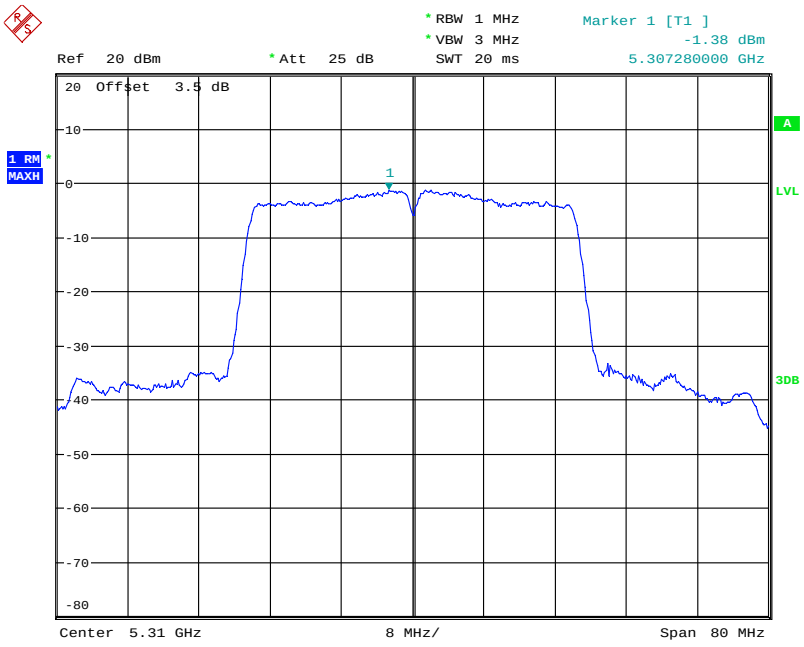
Date: 18.AUG.2021 16:10:18

802.11n ht40 Low Channel



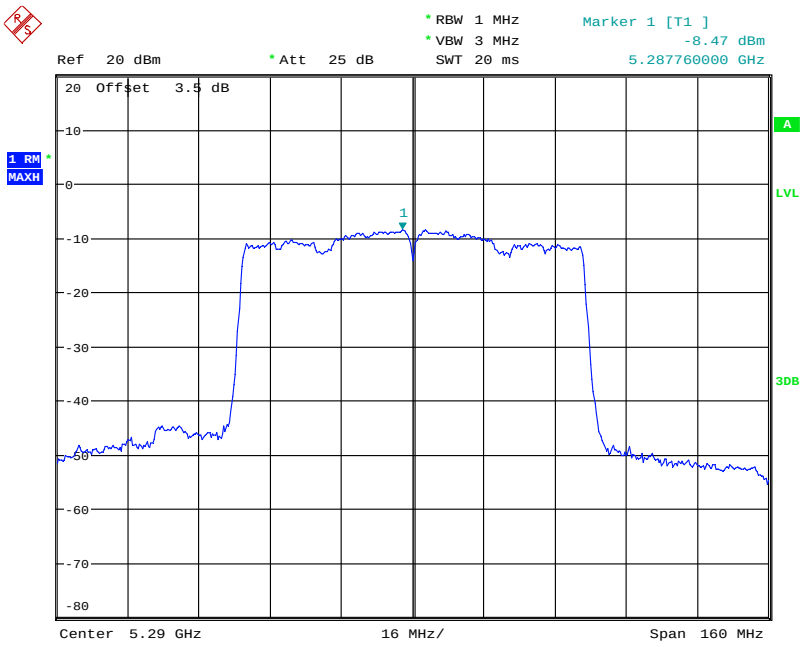
Date: 18.AUG.2021 16:14:27

802.11n ht40 High Channel



Date: 18.AUG.2021 16:18:32

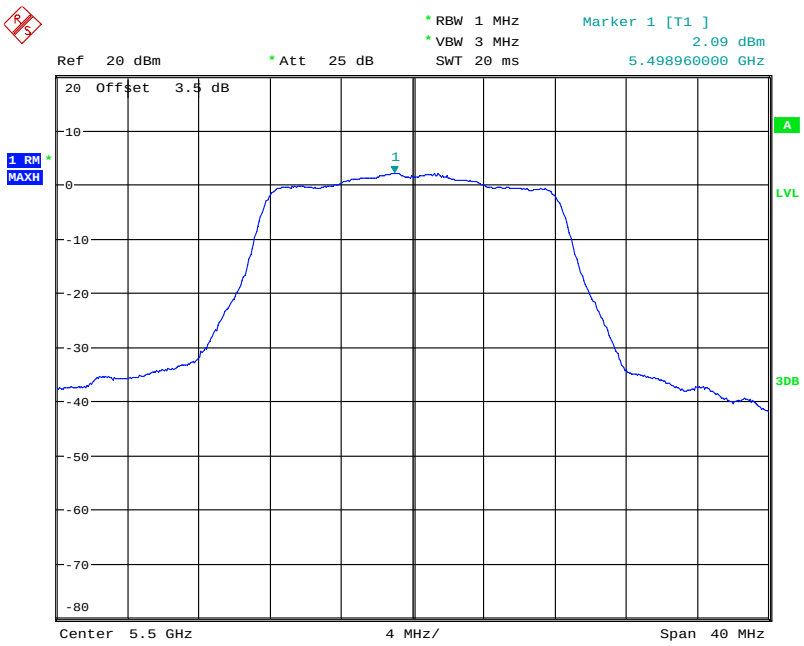
802.11ac vht80 Middle Channel



Date: 18.AUG.2021 16:04:25

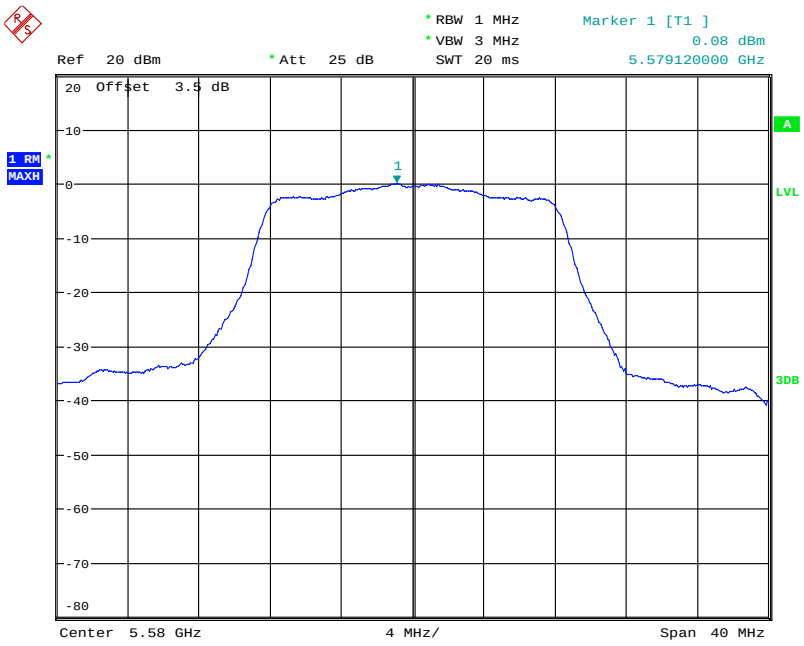
5470-5725 MHz

802.11a Low Channel



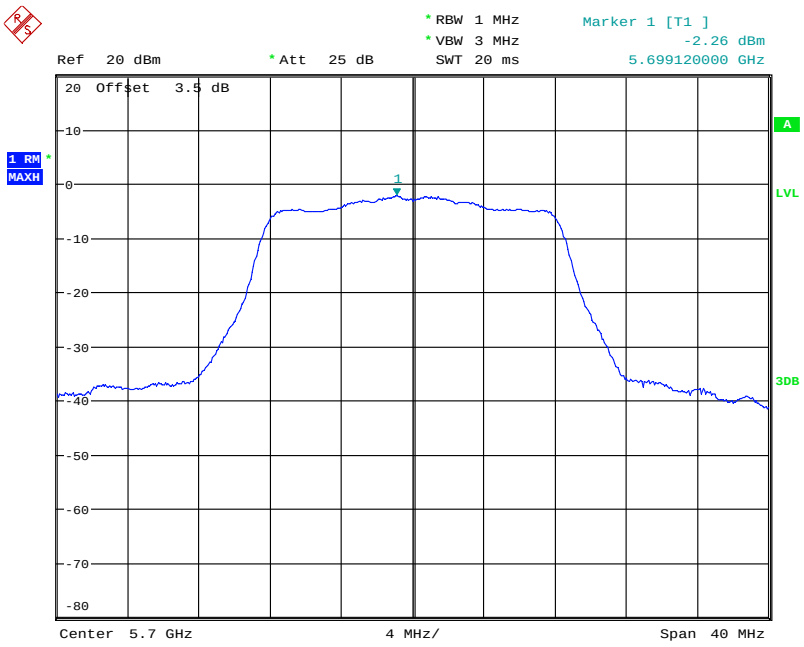
Date: 18.AUG.2021 17:34:25

802.11a Middle Channel



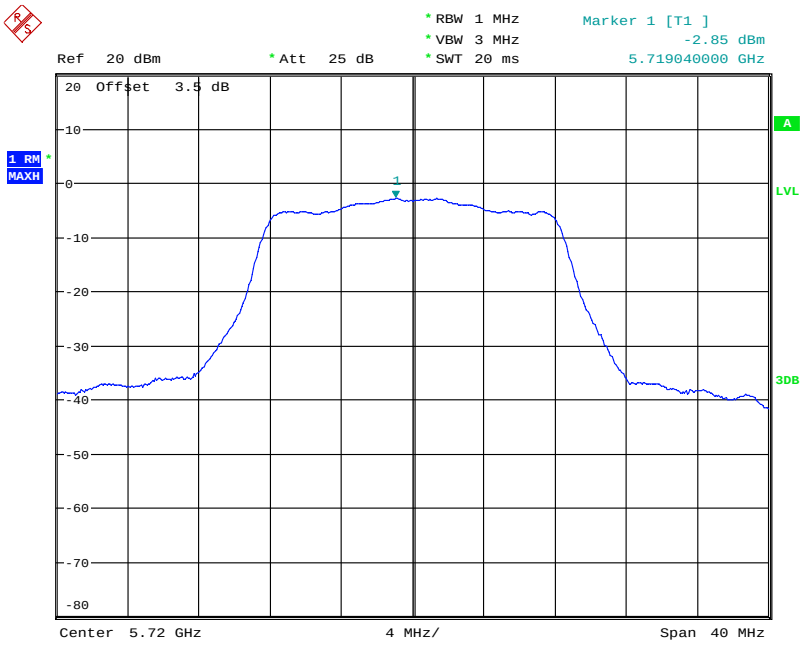
Date: 18.AUG.2021 17:37:38

802.11a High Channel



Date: 18.AUG.2021 16:29:39

802.11a Additional Channel



Date: 19.AUG.2021 17:47:08

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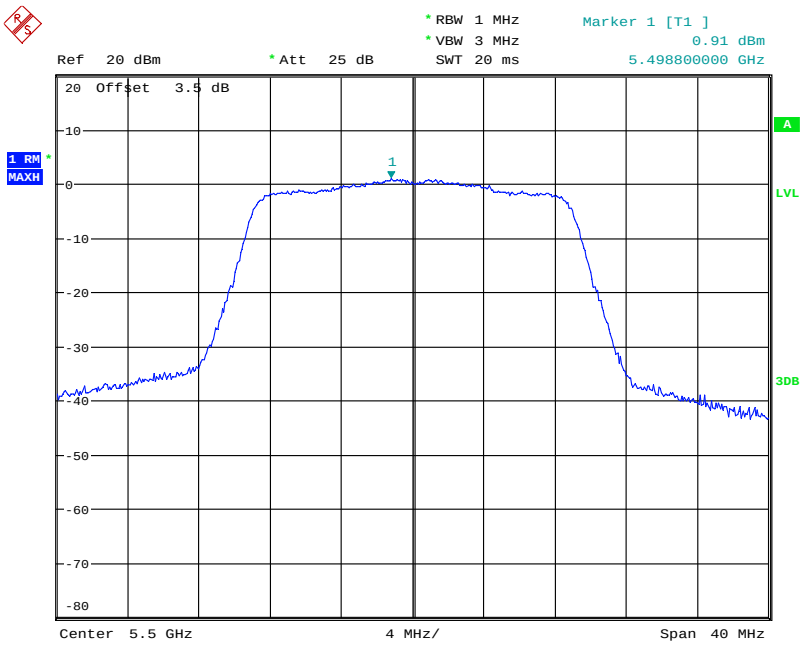

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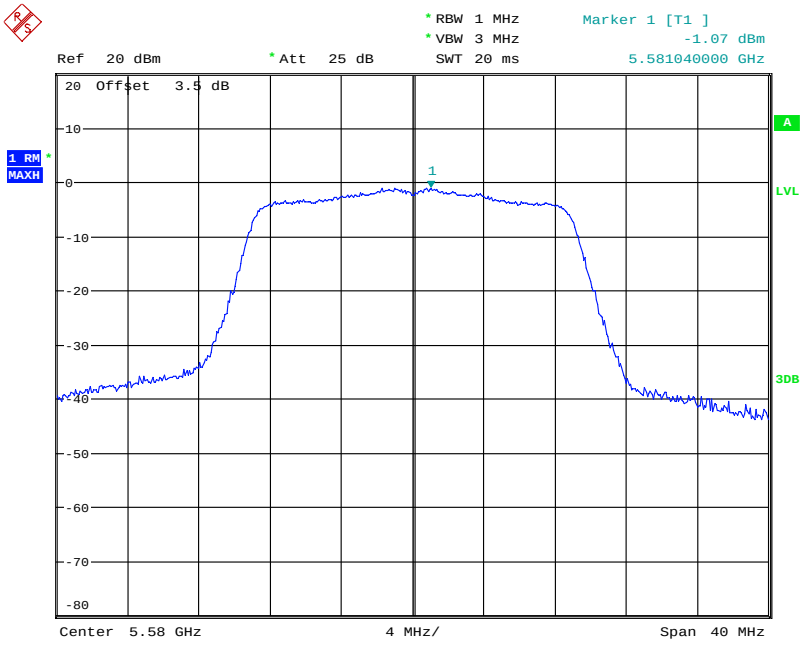

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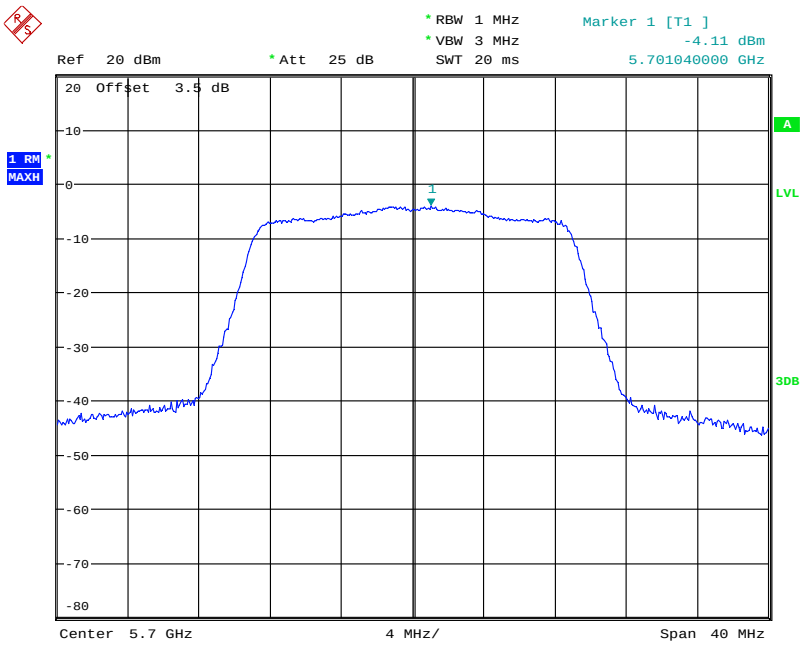

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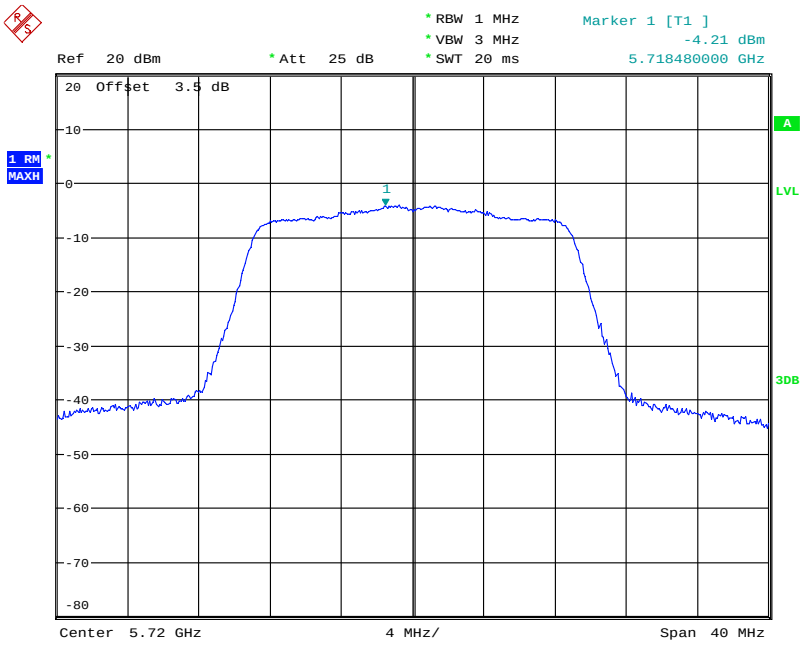

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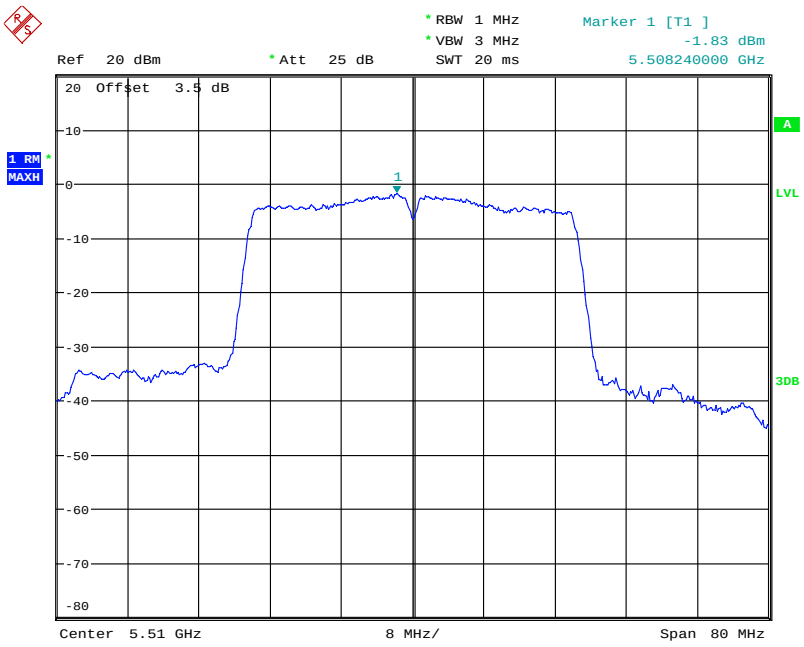
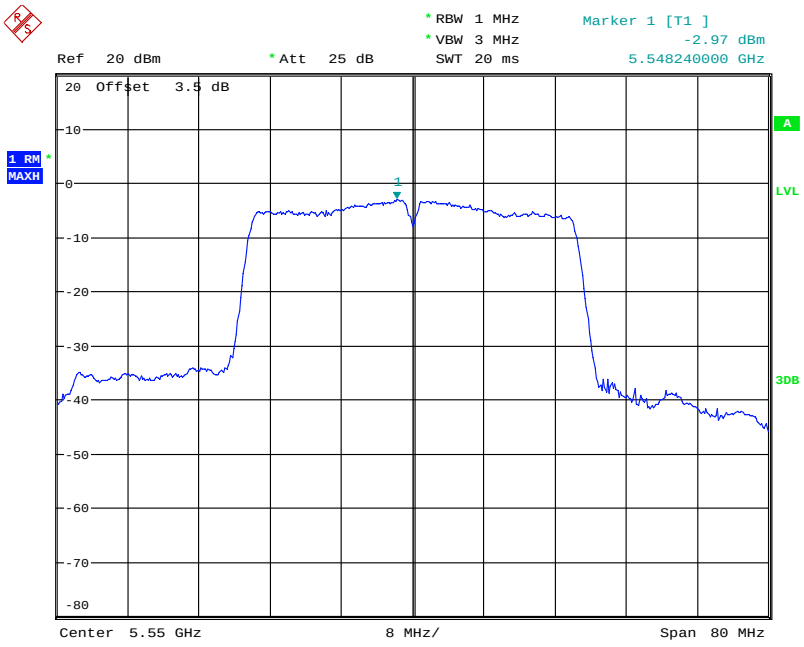
802.11n ht40 Low Channel



Date: 18.AUG.2021 16:37:26

802.11n ht40 Middle Channel



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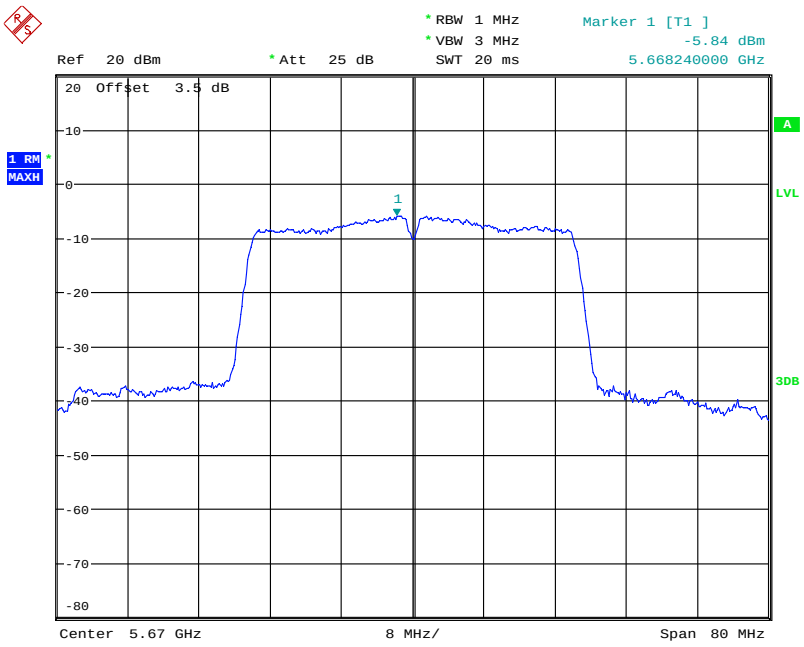
802.11n ht40 High Channel



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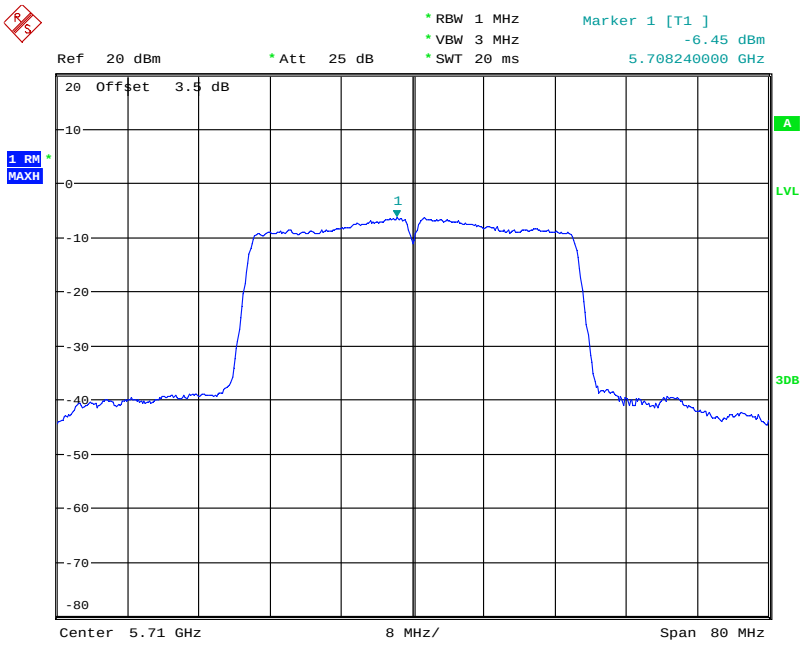

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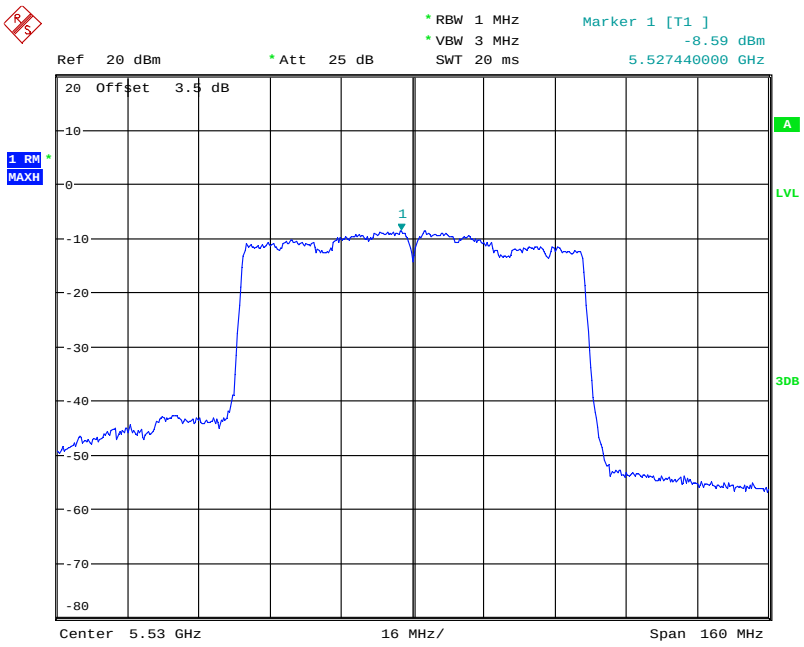
802.11ac vht80 Low Channel



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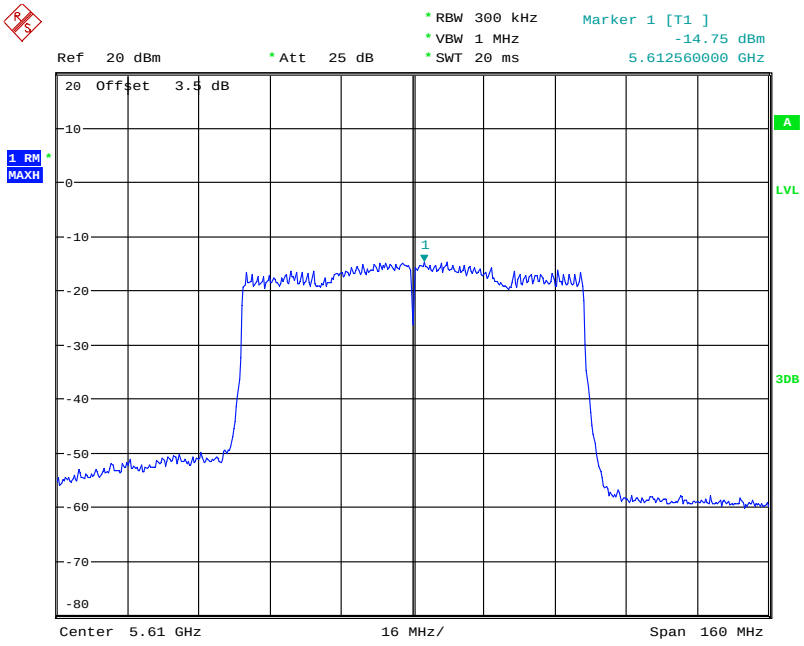
802.11ac vht80 Middle Channel



Date: 19.AUG.2021 17:57:06

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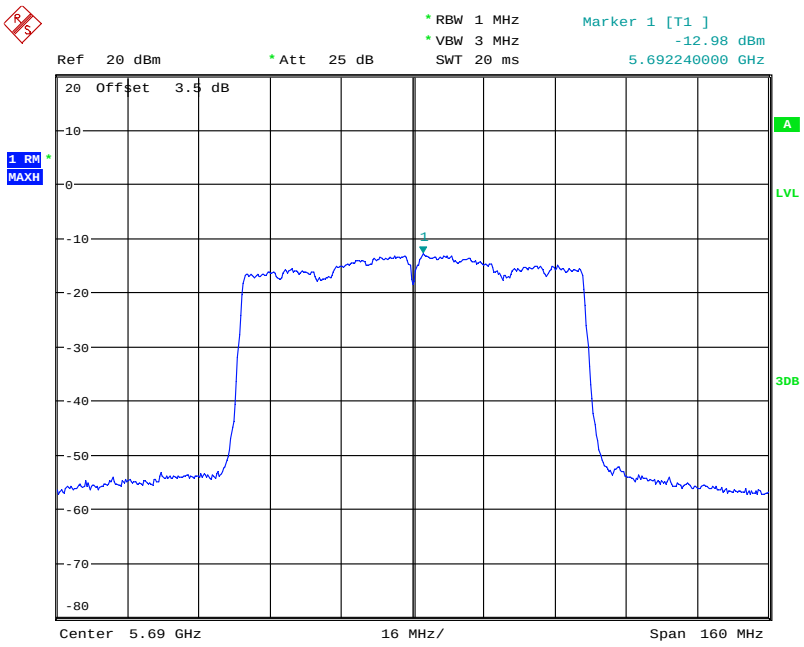
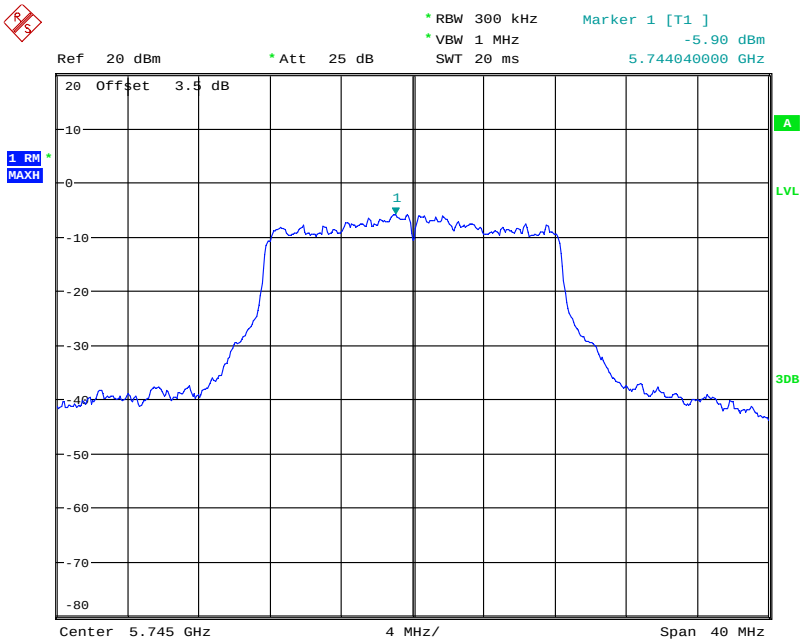


Date: 18.AUG.2021 16:45:57

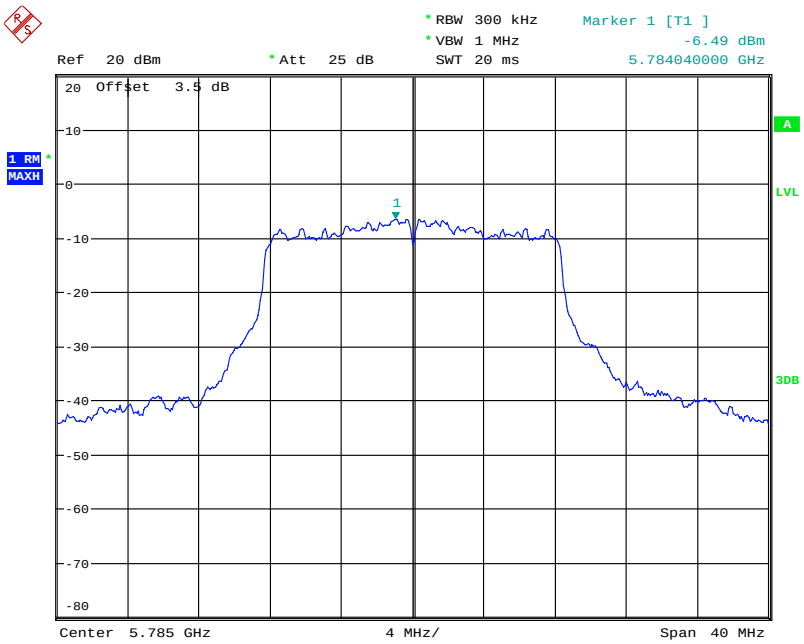
5725-5850MHz

802.11a Low Channel



Date: 18.AUG.2021 17:03:02

802.11a Middle Channel



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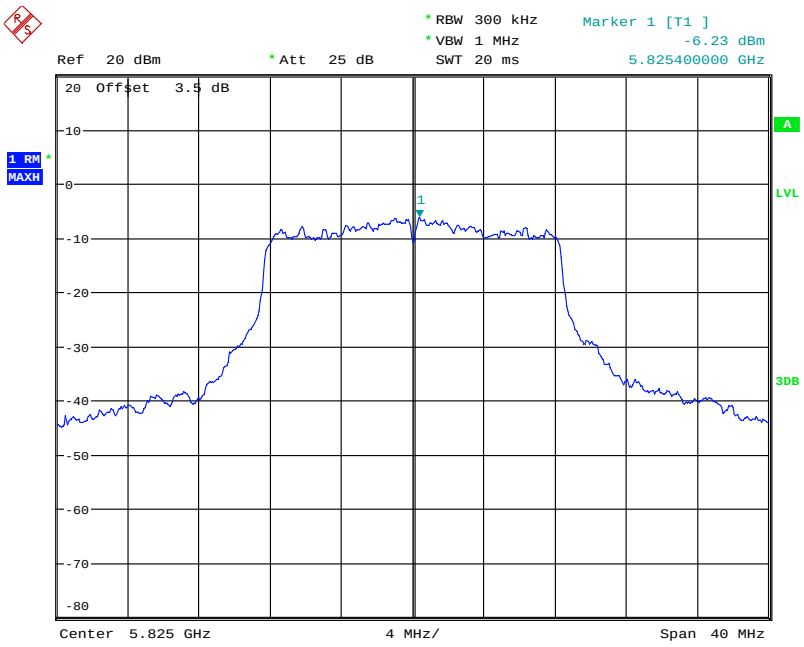
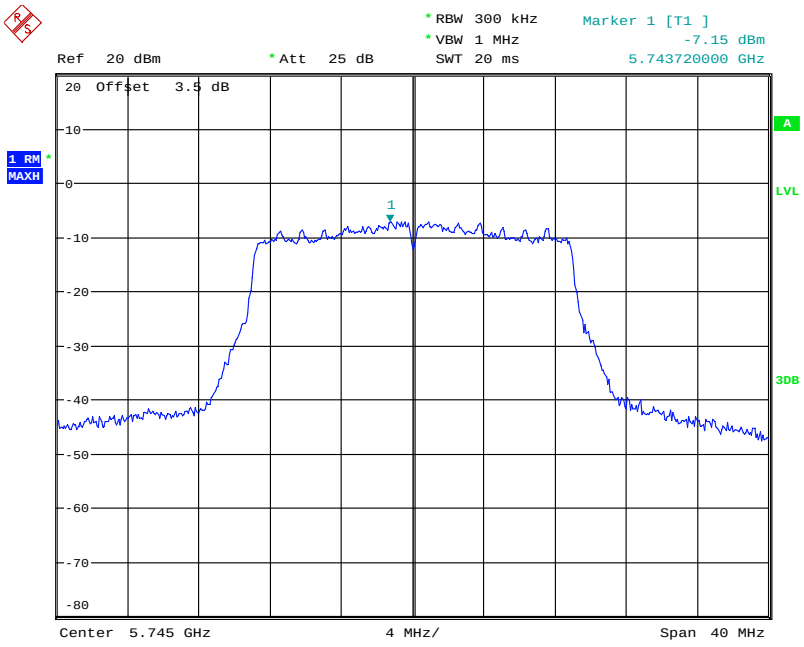
802.11a High Channel



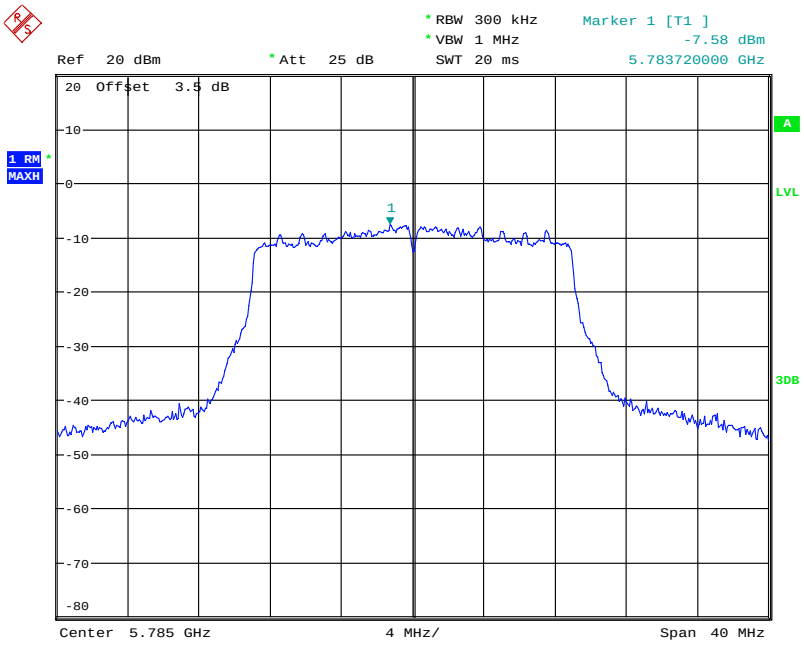
Date: 18.AUG.2021 17:06:15

802.11n ht20 Low Channel



Date: 18.AUG.2021 17:10:43

802.11n ht20 Middle Channel



Date: 18.AUG.2021 17:08:41

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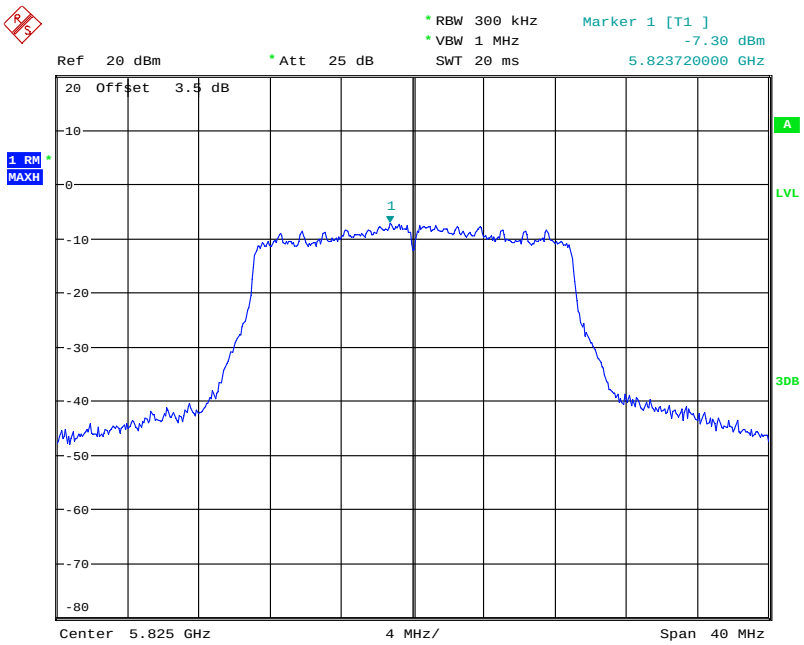
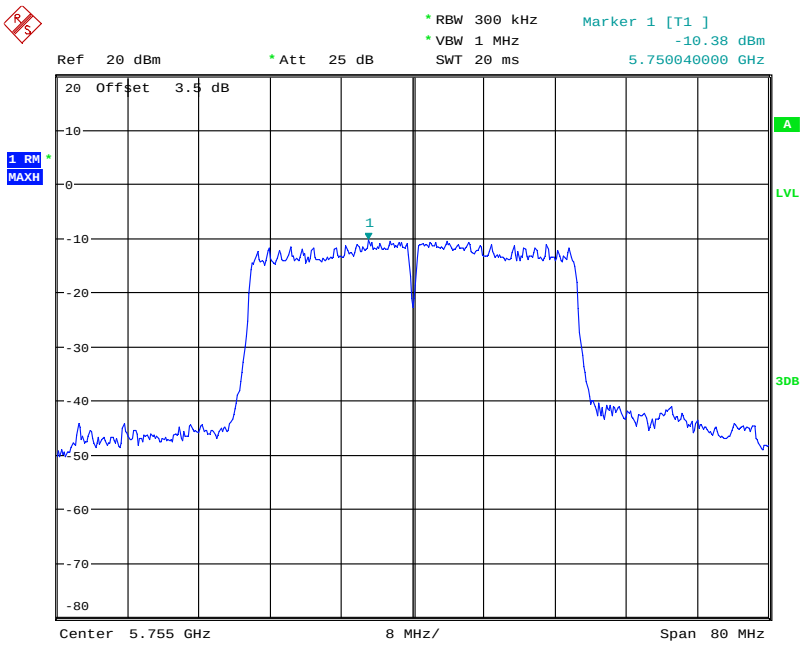


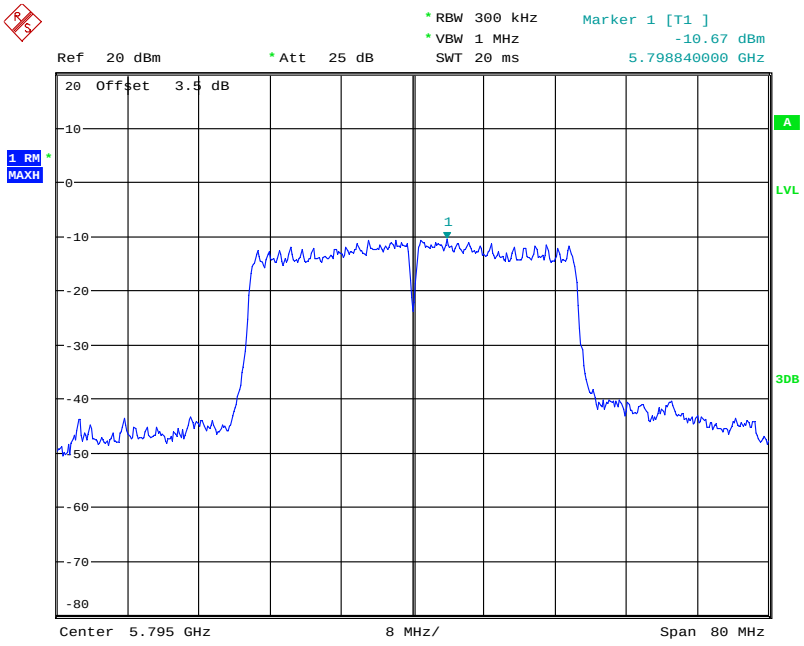
Date: 18.AUG.2021 17:07:39

802.11n ht40 Low Channel



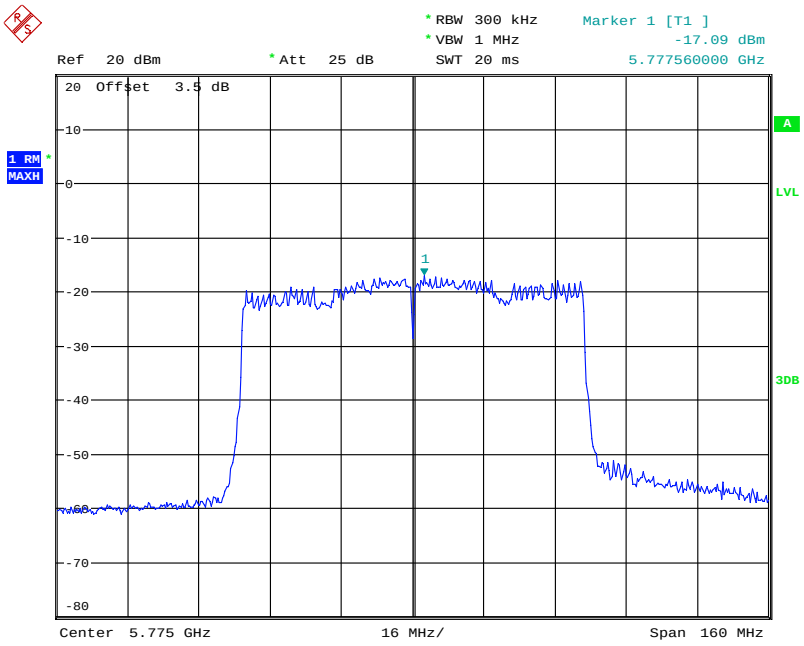
Date: 18.AUG.2021 17:13:04

802.11n ht40 High Channel



Date: 18.AUG.2021 17:14:08

802.11ac vht80 Middle Channel



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