



TEST REPORT

Product Name: Yuqilin Industry version
Trademark: N/A
Model Number: X8T
Prepared For: MicroMultiCopter Innovation Technology Co., Ltd.
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Sample Received Date: Jul. 21, 2025
Sample tested Date: Jul. 21, 2025 to Aug. 15, 2025
Issue Date: Aug. 15, 2025
Report No.: CTB25072104006RF01
Test Standards: ETSI EN 300 328 V2.2.2 (2019-07)
Test Results: PASS
Remark: This is WIFI-2.4GHz band radio test report.

Compiled by:

Reviewed by:

Approved by:

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Note: If there is any objection to the inspection results in this report, please submit a written report to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen CTB Testing Technology Co., Ltd. this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client. "★" indicates the testing items were fulfilled by subcontracted lab. "—" indicates the items are not in CNAS accreditation scope.

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(NOTE: N/A MEANS NOT APPLICABLE)

1. VERSION

Report No.	Issue Date	Description	Approved
CTB25072104004RF01	Aug. 15, 2025	Original	Valid
CTB25072104006RF01	Aug. 15, 2025	Modification	Valid

Remark:

This report was commissioned by MicroMultiCopter Innovation Technology Co., Ltd. and is based on the same product specification as the original report CTB25072104004RF01. Only the product name has been changed. The test data and conclusions in this report are based on the original report CTB25072104004RF01.

2. TEST SUMMARY

The Product has been tested according to the following specifications:

Standard	ETSI EN 300 328 V2.2.2		
Test Item	Test Requirement	Test Method	Results
Transmitter Parameters			
RF Output Power	Clause 4.3.2.2	Clause 5.4.2	PASS
Power Spectral Density	Clause 4.3.2.3	Clause 5.4.3	PASS
Duty cycle, Tx-Sequence, Tx-gap	Clause 4.3.2.4	Clause 5.4.4	N/A ¹
Medium Utilization (MU) factor	Clause 4.3.2.5	Clause 5.4.5	N/A ²
Adaptivity (adaptive equipment using modulations other than FHSS)	Clause 4.3.2.6	Clause 5.4.6	N/A ³
Occupied Channel Bandwidth	Clause 4.3.2.7	Clause 5.4.7	PASS
Transmitter unwanted emissions in the out-of-band domain	Clause 4.3.2.8	Clause 5.4.8	PASS
Transmitter unwanted emissions in the spurious domain	Clause 4.3.2.9	Clause 5.4.9	PASS
Receiver Parameters			
Receiver spurious emissions	Clause 4.3.2.10	Clause 5.4.10	PASS
Receiver Blocking	Clause 4.3.2.11	Clause 5.4.11	PASS
Geo-location capability	Clause 4.3.2.12	Clause 5.4.12	N/A ⁴
Remark: N/A ¹ : Because these requirements apply to non-adaptive frequency hopping equipment mode and RF output power of greater than or equal to 10 dBm. N/A ² : Because these requirements apply to non-adaptive frequency hopping equipment mode and RF output power of greater than or equal to 10 dBm. N/A ³ : Because these requirements apply to adaptive equipment mode and RF output power of greater than or equal to 10 dBm. N/A ⁴ : Only for equipment with geo-location capability Tx: In this whole report Tx (or tx) means Transmitter. Rx: In this whole report Rx (or rx) means Receiver. RF: In this whole report RF means Radiated Frequency. CH: In this whole report CH means channel.			

3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Item	Uncertainty
Occupancy bandwidth	54.3kHz
Conducted output power above 1G	0.9dB
Conducted output power below 1G	0.9dB
Power Spectral Density , Conduction	0.9dB
Conduction spurious emissions	2.0dB
Out of band emission	2.0dB
3m chamber Radiated spurious emission(30MHz-1GHz)	4.6dB
3m chamber Radiated spurious emission(1GHz-18GHz)	5.1dB
3m chamber Radiated spurious emission(18GHz-40GHz)	3.4dB
Receiver Reference Sensitivity level	1.9dB
Humidity uncertainty	5.5%
Temperature uncertainty	0.63°C
Frequency	1×10^{-7}

4. PRODUCT INFORMATION AND TEST SETUP

4.1 Product Information

Model(s):	X8T
Model Description:	N/A
Wi-Fi Specification:	IEEE 802.11b/g/n/ax
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	WiFi: IEEE 802.11b/g/n/ax20: 2412-2472MHz/ 13 channel IEEE 802.11n/ax40: 2422-2462MHz/ 9 channel
Max. RF output power:	WiFi (2.4G): 16.19dBm
Type of Modulation:	WiFi (2.4G): DSSS, OFDM, OFDMA
Antenna installation:	WiFi (2.4G): Internal antenna
Antenna Gain:	WiFi (2.4G): Ant1: 2.7dBi Ant2: 2.7dBi
Ratings:	For adapter: Input: 100-240V~50/60Hz 1.5A Output: 5.0V=3.0A /9.0V=3.0A /12.0V=3.0 /15.0V=3.0A /20.0V=2.25A DC 14.4V by battery

4.2 Test Setup Configuration

See test photographs attached in EUT TEST SETUP PHOTOGRAPHS for the actual connections between Product and support equipment.

4.3 Support Equipment

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
1	AC ADAPTOR	RUI YU	RYF909CPD45WVU	/	AE

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.4 Channel List

CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)
1	2412	2	2417	3	2422	4	2427
5	2432	6	2437	7	2442	8	2447
9	2452	10	2457	11	2462	12	2467
13	2472	/	/	/	/	/	/

4.5 Test Mode

All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests, the worst data were recorded and reported.

Test mode	Low channel	Middle channel	High channel
Transmitting(802.11b/g/n/ax20)	2412MHz	2442MHz	2472MHz
Transmitting(802.11n/ax40)	2422MHz	2442MHz	2462MHz
Receiving(802.11b/g/n/ax20)	2412MHz	2442MHz	2472MHz
Receiving(802.11n/ax40)	2422MHz	2442MHz	2462MHz

4.6 Test Environment

Humidity(%):	54
Atmospheric Pressure(kPa):	101
Normal Voltage(DC)(V):	14.4
Normal Temperature(°C)	23
Low Temperature(°C)	0
High Temperature(°C)	40

5. TEST FACILITY AND TEST INSTRUMENT USED

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at 1&2F., Building A, No. 26, Xinhua Road, Xinqiao, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

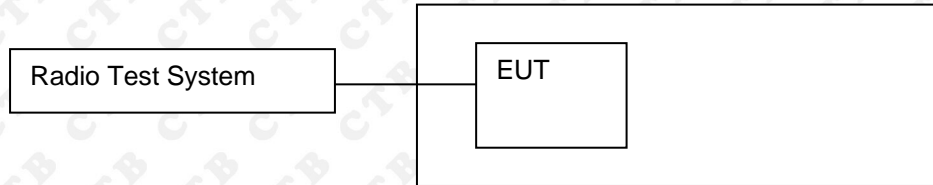
5.2 Test Instrument Used

No.	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Calibrated Date	Calibrated until
1	Spectrum Analyzer	Agilent	N9020A	MY52090073	A.14.16	2025/5/23	2026/5/22
2	Power Sensor	Agilent	U2021XA	MY56120032	/	2025/5/23	2026/5/22
3	Power Sensor	Agilent	U2021XA	MY56120034	/	2025/5/23	2026/5/22
4	Communication test set	R&S	CMW500	108058	V3.5.80	2025/5/23	2026/5/22
5	Spectrum Analyzer	KEYSIGHT	N9020A	MY51289897	A.14.16	2025/5/23	2026/5/22
6	Signal Generator	Agilent	N5181A	MY50140365	A.01.60	2025/5/22	2026/5/21
7	Vector signal generator	Agilent	N5182A	MY47420195	A.01.87	2025/5/22	2026/5/21
8	Communication test set	Agilent	E5515C	MY50102567	B.19.07 (E1962B)	2025/5/22	2026/5/21
9	2.4 GHz Filter	Shenxiang	MSF2400-24 83.5MS-1154	20181015001	/	2025/6/18	2026/6/17
10	5 GHz Filter	Shenxiang	MSF5150-58 50MS-1155	20181015001	/	2025/6/18	2026/6/17
11	Filter	Xingbo	XBLBQ-DZA 120	190821-1-1	/	2025/5/24	2026/5/23
12	BT&WI-FI Automatic test software	Microwave	MTS8310	Ver. 2.0.0.0	/	/	/
13	Rohde & Schwarz SFU Broadcast Test System	R&S	SFU	101017	/	2024/10/31	2025/10/30
14	Temperature humidity chamber	Hongjing	TH-80CH	DG-15174	/	2025/5/22	2026/5/21
15	234G Automatic test software	Microwave	MTS8200	Ver. 2.0.0.0	/	/	/
16	966 chamber	C.R.T.	966	/	/	2024/6/23	2027/6/22
17	Receiver	R&S	ESPI	100362	RF_ATTEN_7 (104489/003)	2025/5/23	2026/5/22
18	Amplifier	HP	8447E	2945A02747	/	2025/5/23	2026/5/22
19	Amplifier	Agilent	8449B	3008A01838	/	2025/6/2	2026/6/1

20	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	00869	/	2025/6/29	2026/6/28
21	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA9120D	01911	/	2025/6/1	2026/5/31
22	EMI test software	Fala	EZ-EMC	FA-03A2 RE	/	/	/
23	Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-224	/	2025/6/2	2026/6/1
24	loop antenna	ZHINAN	ZN30900A	GTS534	/	/	/
25	40G Horn antenna	A/H/System	SAS-574	588	/	2025/6/2	2026/6/1
26	Amplifier	AEROFLEX	Aeroflex	097	/	2025/6/2	2026/6/1
27	Power Meter	KEYSIGHT	N1912AP	N/A	A.05.00	2025/6/2	2026/6/1

6. RF OUTPUT POWER

6.1 Block Diagram Of Test Setup



6.2 Limit

For adaptive equipment using wide band modulations other than FHSS, the maximum RF output power shall be 20 dBm.

The maximum RF output power for non-adaptive equipment shall be declared by the supplier and shall not exceed 20 dBm. See clause 5.3.1 m). For non-adaptive equipment using wide band modulations other than FHSS, the maximum RF output power shall be equal to or less than the value declared by the supplier.

This limit shall apply for any combination of power level and intended antenna assembly.

Limit
20dBm

6.3 Test procedure

Step 1:

- Use a fast power sensor suitable for 2.4 GHz and capable of minimum 1 MS/s.
 - Use the following settings:
 - Sample speed 1 MS/s or faster.
 - The samples shall represent the RMS power of the signal.
 - Measurement duration: For non-adaptive equipment: equal to the observation period defined in clause 4.3.1.3.2 or clause 4.3.2.4.2. For adaptive equipment, the measurement duration shall be long enough to ensure a minimum number of bursts (at least 10) are captured.
- NOTE 1: For adaptive equipment, to increase the measurement accuracy, a higher number of bursts may be used.

Step 2:

- For conducted measurements on devices with one transmit chain:
 - Connect the power sensor to the transmit port, sample the transmit signal and store the raw data. Use these stored samples in all following steps.
- For conducted measurements on devices with multiple transmit chains:
 - Connect one power sensor to each transmit port for a synchronous measurement on all transmit ports.
 - Trigger the power sensors so that they start sampling at the same time. Make sure the time difference between the samples of all sensors is less than 500 ns.
 - For each individual sampling point (time domain), sum the coincident power samples of all ports and store them. Use these summed samples in all following steps.

Step 3:

- Find the start and stop times of each burst in the stored measurement samples.
- The start and stop times are defined as the points where the power is at least 30 dB below the highest value of the stored samples in step 2.

NOTE 2: In case of insufficient dynamic range, the value of 30 dB may need to be reduced appropriately.

Step 4:

- Between the start and stop times of each individual burst calculate the RMS power over the burst using the formula below. Save these Pburst values, as well as the start and stop times for each burst.

$$P_{burst} = \frac{1}{k} \sum_{n=1}^k P_{sample}(n)$$

with 'k' being the total number of samples and 'n' the actual sample number

Step 5:

- The highest of all Pburst values (value "A" in dBm) will be used for maximum e.i.r.p. calculations.

Step 6:

- Add the (stated) antenna assembly gain "G" in dBi of the individual antenna.
- If applicable, add the additional beamforming gain "Y" in dB.
 - If more than one antenna assembly is intended for this power setting, the maximum overall antenna gain (G or G + Y) shall be used.
- The RF Output Power (P) shall be calculated using the formula below:
$$P = A + G + Y$$
- This value, which shall comply with the limit given in clause 4.3.1.2.3 or clause 4.3.2.2.3, shall be recorded in the test report.

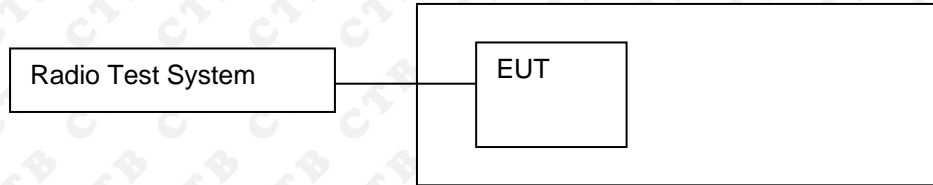
6.4 Test Result

Modulation	Test conditions (Temperature)	Antenna	Low Channel		Middle Channel		High Channel	
			EIRP	Total EIRP	EIRP	Total EIRP	EIRP	Total EIRP
802.11b	Normal	ANT1	12.13	/	12.4	/	11.43	/
		ANT2	13.29	/	13.34	/	12.62	/
	Lower	ANT1	12.12	/	12.04	/	11.07	/
		ANT2	12.89	/	13.40	/	12.65	/
	Upper	ANT1	11.93	/	12.04	/	11.06	/
		ANT2	12.86	/	13.40	/	12.29	/
802.11g	Normal	ANT1	12.12	/	11.95	/	11.59	/
		ANT2	12.93	/	12.61	/	11.79	/
	Lower	ANT1	11.89	/	11.76	/	11.44	/
		ANT2	12.86	/	12.45	/	11.79	/
	Upper	ANT1	11.98	/	11.75	/	11.54	/
		ANT2	12.81	/	12.59	/	11.77	/
802.11n(HT20)	Normal	ANT1	11.85	15.57	11.9	15.41	10.91	14.53
		ANT2	13.17		12.85		12.05	
	Lower	ANT1	11.56	15.31	11.88	15.38	10.85	14.47
		ANT2	12.92		12.80		11.99	
	Upper	ANT1	11.68	15.40	11.78	15.30	10.73	14.39
		ANT2	13.00		12.75		11.95	
802.11n(HT40)	Normal	ANT1	11.99	15.61	11.89	15.43	11.35	14.97
		ANT2	13.13		12.89		12.5	
	Lower	ANT1	11.88	15.46	11.82	15.40	11.16	14.86
		ANT2	12.96		12.89		12.45	
	Upper	ANT1	11.88	15.47	11.77	15.34	11.05	14.80
		ANT2	12.97		12.82		12.43	
802.11ax(HT20)	Normal	ANT1	13.1	16.17	12.83	15.65	12	14.81
		ANT2	13.22		12.45		11.58	
	Lower	ANT1	12.96	15.95	12.54	15.45	11.86	14.60
		ANT2	12.93		12.35		11.31	
	Upper	ANT1	12.98	16.11	12.82	15.58	11.94	14.75
		ANT2	13.22		12.31		11.52	

802.11ax(HT40)	Normal	ANT1	13.19	16.19	12.94	15.94	12.2	15.42
		ANT2	13.16		12.91		12.61	
	Lower	ANT1	13.08	16.09	12.86	15.86	11.95	15.24
		ANT2	13.08		12.84		12.48	
	Upper	ANT1	13.10	16.07	12.86	15.89	11.97	15.29
		ANT2	13.03		12.91		12.57	
Limit			≤20dBm/MHz					

7. POWER SPECTRAL DENSITY

7.1 Block Diagram Of Test Setup



7.2 Limit

For equipment using wide band modulations other than FHSS, the maximum Power Spectral Density is limited to 10 dBm per MHz.

Limit
10dBm/MHz

7.3 Test procedure

Step 1:

Connect the UUT to the spectrum analyser and use the following settings:

- Start Frequency: 2 400 MHz
- Stop Frequency: 2 483,5 MHz
- Resolution BW: 10 kHz
- Video BW: 30 kHz
- Sweep Points: > 8 350

NOTE: For spectrum analysers not supporting this number of sweep points, the frequency band may be segmented.

- Detector: RMS
- Trace Mode: Max Hold
- Sweep time: 10 s; the sweep time may be increased further until a value where the sweep time has no impact on the RMS value of the signal

For non-continuous signals, wait for the trace to stabilize.

Save the data (trace data) set to a file.

Step 2:

For conducted measurements on smart antenna systems using either operating mode 2 or operating mode 3 (see clause 5.1.3.2), repeat the measurement for each of the transmit ports. For each sampling point (frequency domain), add up the coincident power values (in mW) for the different transmit chains and use this as the new data set.

Step 3:

Add up the values for power for all the samples in the file using the formula below.

$$P_{Sum} = \sum_{n=1}^k P_{sample}(n)$$

with 'k' being the total number of samples and 'n' the actual sample number

Step 4:

Normalize the individual values for power (in dBm) so that the sum is equal to the RF Output Power (e.i.r.p.) measured in clause 5.3.2 and save the corrected data. The following formulas can be used:

$$C_{Corr} = P_{Sum} - P_{e.i.r.p.}$$

$$P_{Samplecorr}(n) = P_{Sample}(n) - C_{Corr}$$

with 'n' being the actual sample number

Step 5:

Starting from the first sample $P_{Samplecorr}(n)$ (lowest frequency), add up the power (in mW) of the following samples representing a 1 MHz segment and record the results for power and position (i.e. sample #1 to sample #100). This is the Power Spectral Density (e.i.r.p.) for the first 1 MHz segment which shall be recorded.

Step 6:

Shift the start point of the samples added up in step 5 by one sample and repeat the procedure in step 5 (i.e. sample #2 to sample #101).

Step 7:

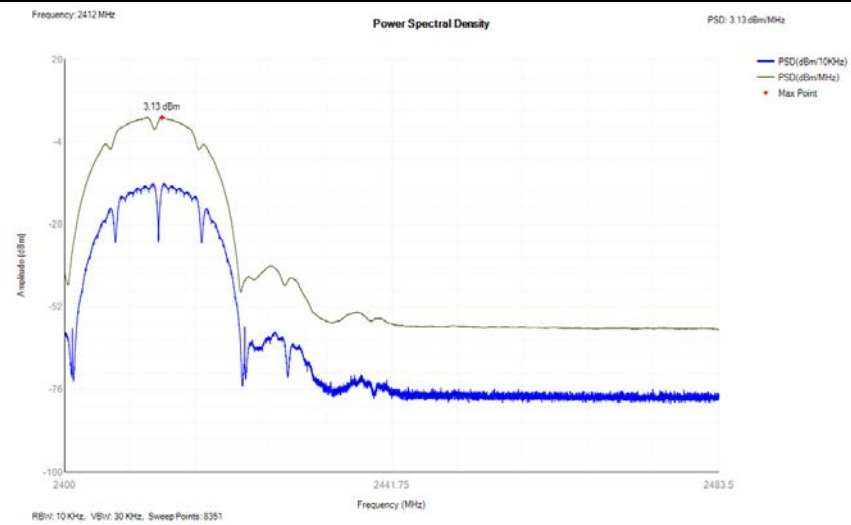
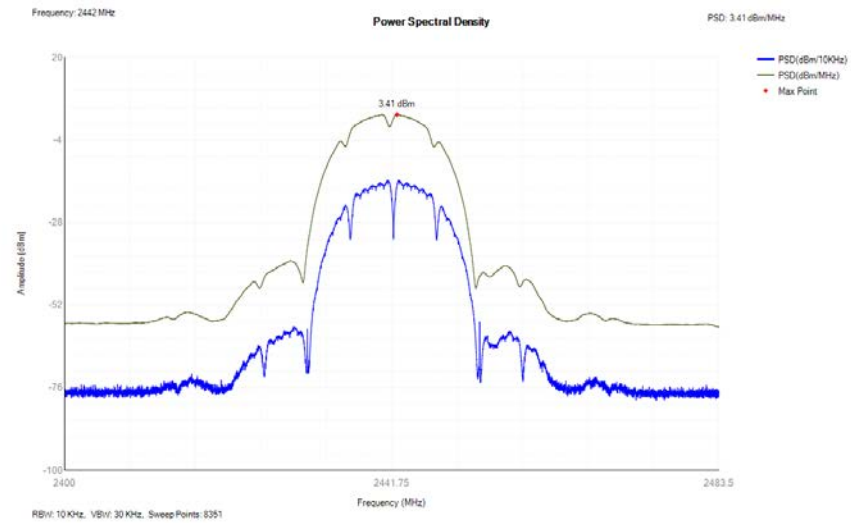
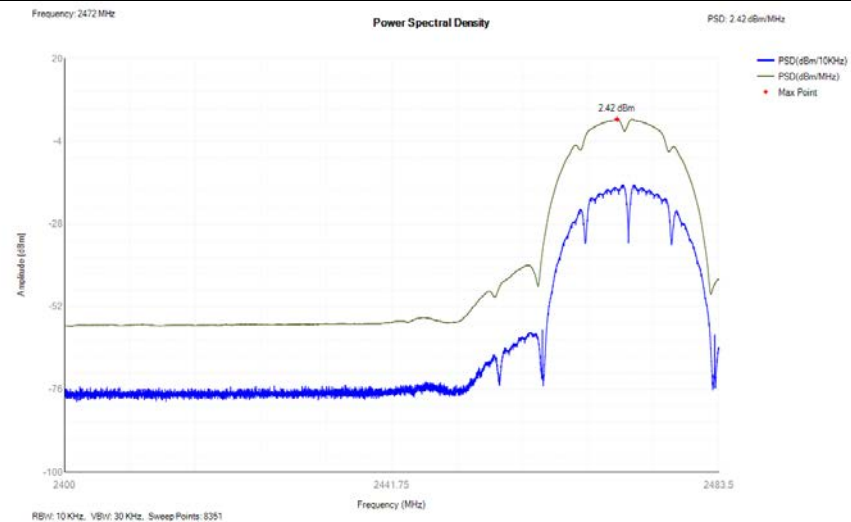
Repeat step 6 until the end of the data set and record the Power Spectral Density values for each of the 1 MHz segments.

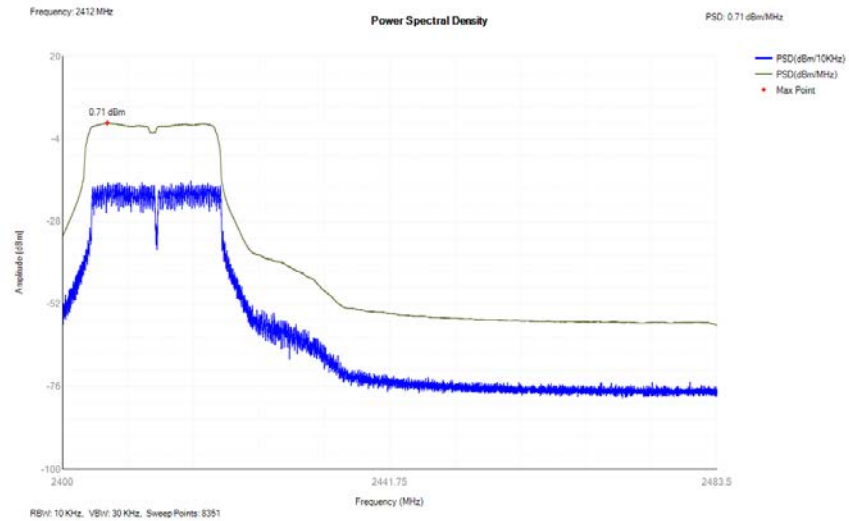
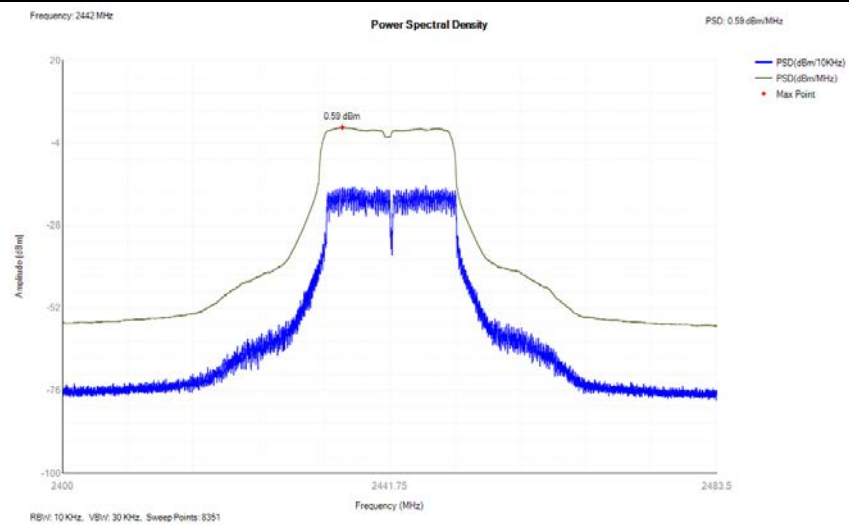
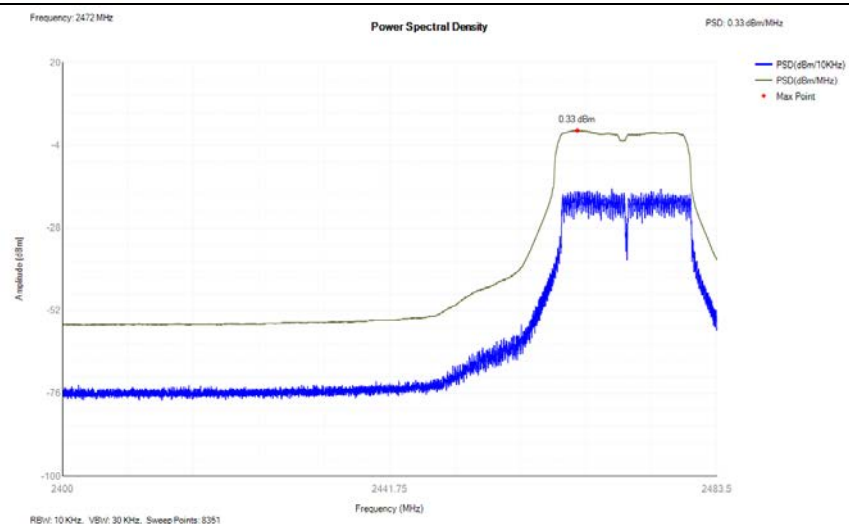
From all the recorded results, the highest value is the maximum Power Spectral Density for the UUT. This value, which shall comply with the limit given in clause 4.3.2.3.3, shall be recorded in the test report.

7.4 Test Result

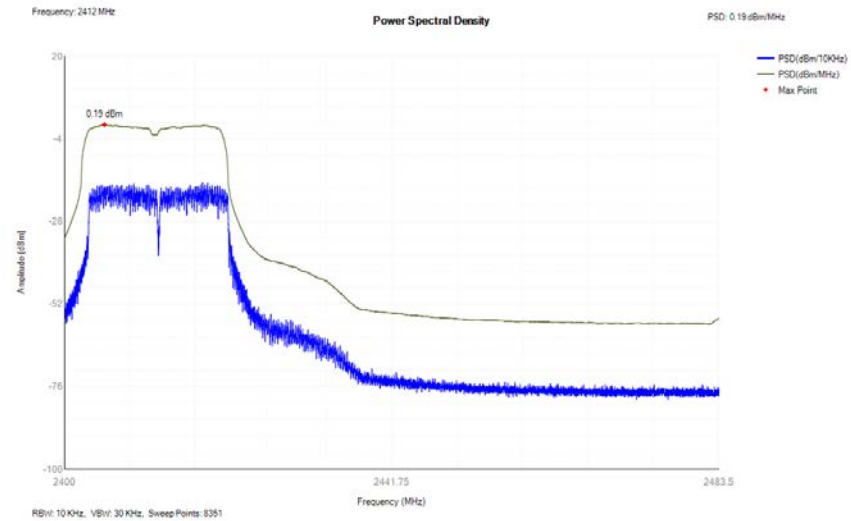
Modulation	Test conditions	Antenna	Maximum e.i.r.p. Spectral Density (dBm/MHz)					
	(Temperature)		Low Channel		Middle Channel		High Channel	
				Total		Total		Total
802.11b	Normal	ANT1	3.13	/	3.41	/	2.42	/
		ANT2	4.26	/	4.32	/	3.61	/
802.11g	Normal	ANT1	0.71	/	0.59	/	0.33	/
		ANT2	1.52	/	1.18	/	0.64	/
802.11n(HT20)	Normal	ANT1	0.19	3.91	0.3	3.73	-0.51	3.17
		ANT2	1.51		1.1		0.74	
802.11n(HT40)	Normal	ANT1	-2.87	0.14	-2.71	0.76	-2.94	0.64
		ANT2	-1.47		-1.83		-1.86	
802.11ax(HT20)	Normal	ANT1	1.42	4.53	1.11	3.98	0.71	3.46
		ANT2	1.62		0.82		0.18	
802.11ax(HT40)	Normal	ANT1	-1.45	1.56	-1.67	1.28	-2.16	1.05
		ANT2	-1.44		-1.8		-1.77	
Limit			≤10dBm/MHz					

ANT1:

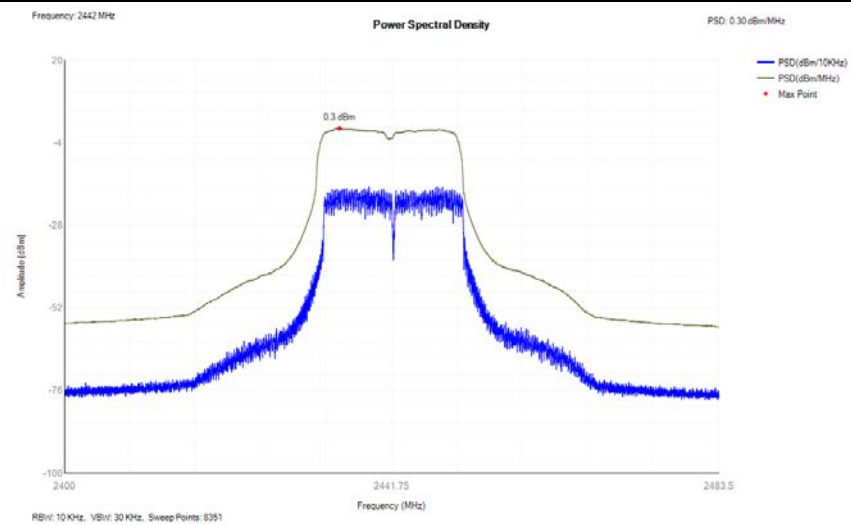
802.11b
Low Channel

802.11b
Mid Channel

802.11b
High Channel


802.11g
Low Channel

802.11g
Mid Channel

802.11g
High Channel


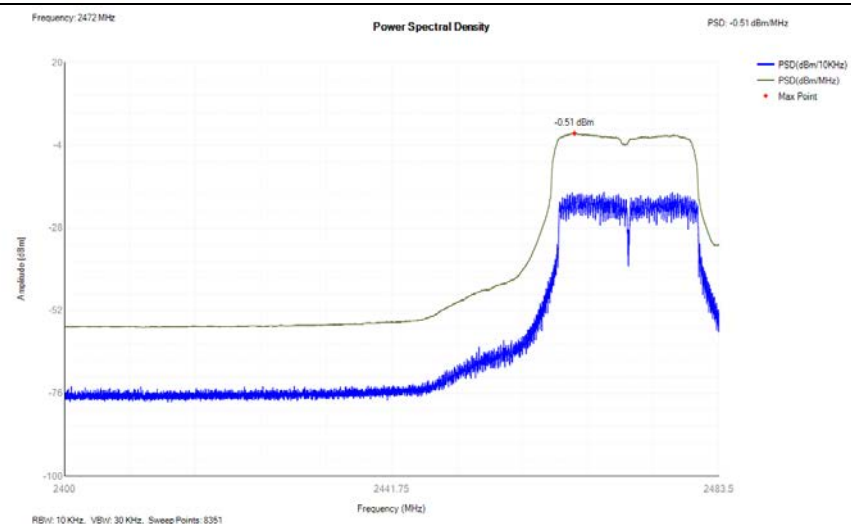
802.11n20
Low Channel



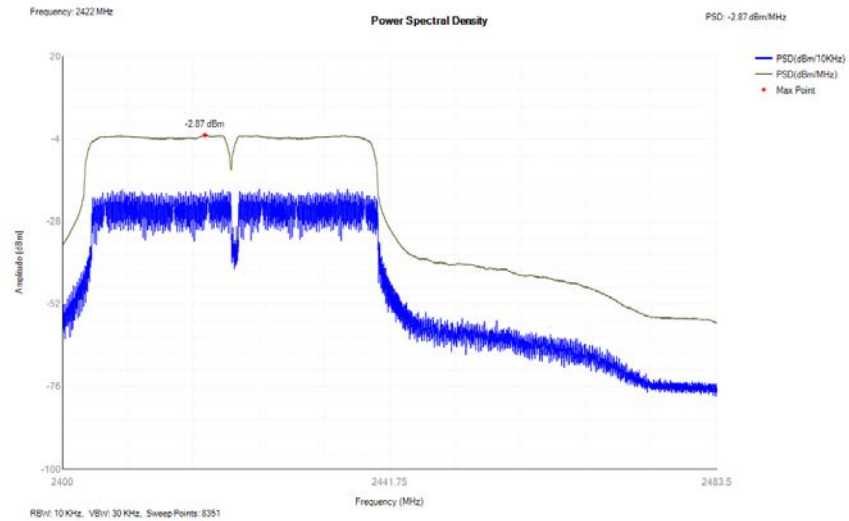
802.11n20
Mid Channel



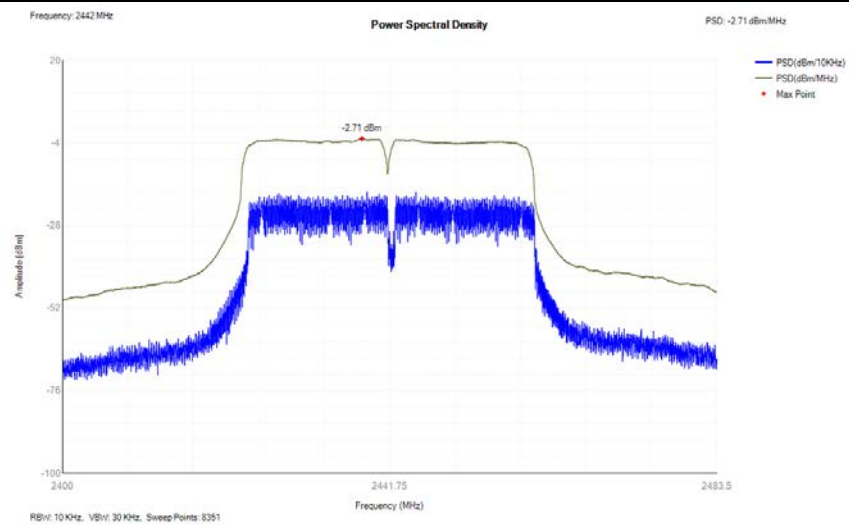
802.11n20
High Channel



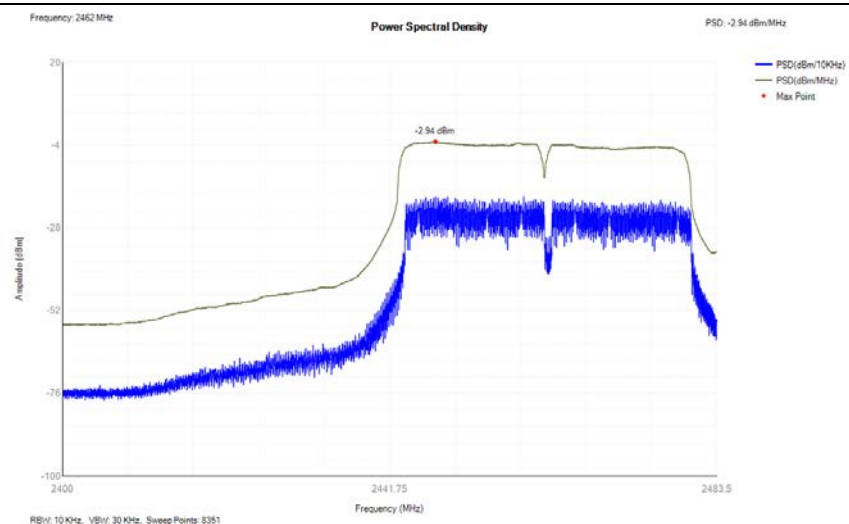
802.11n40
Low Channel



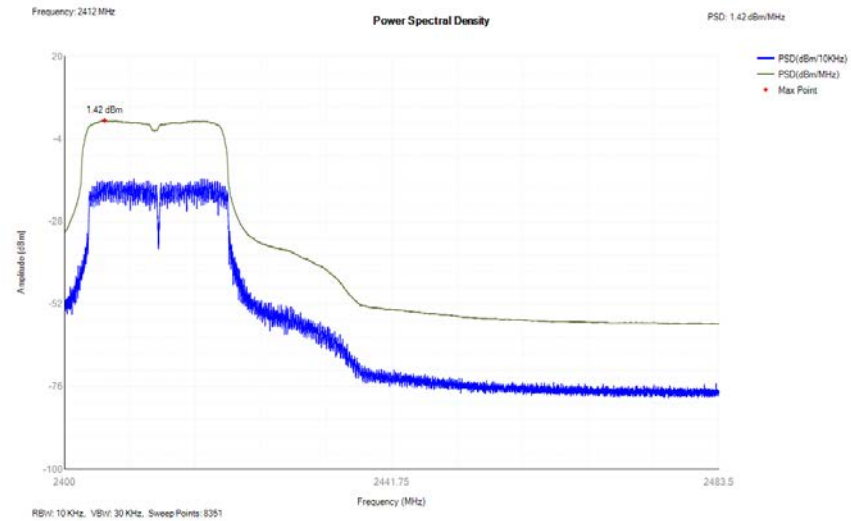
802.11n40
Mid Channel



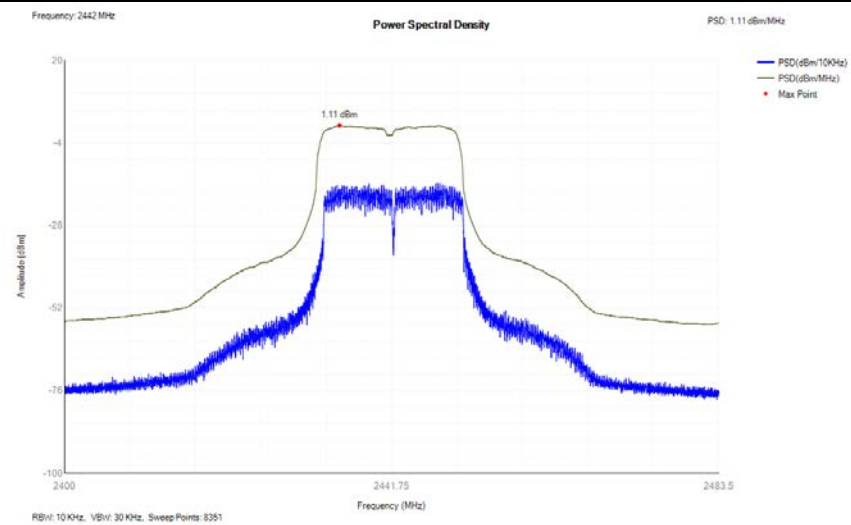
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High Channel



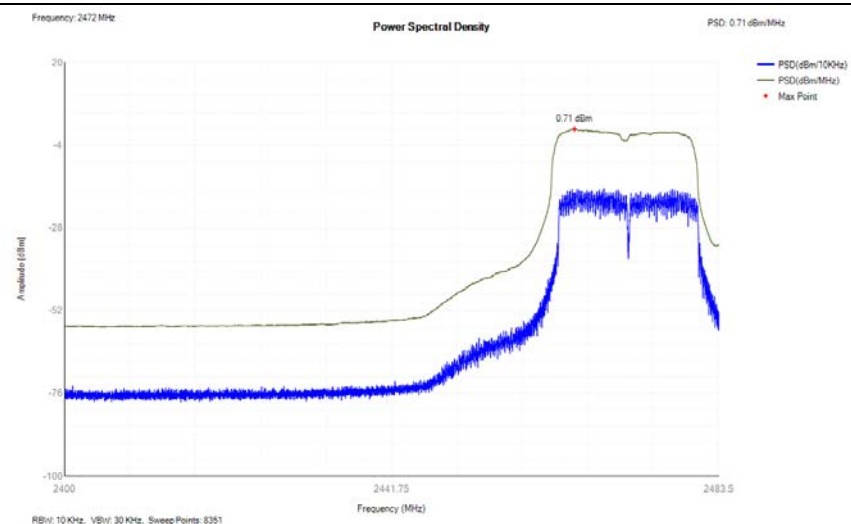
802.11ax20
Low Channel

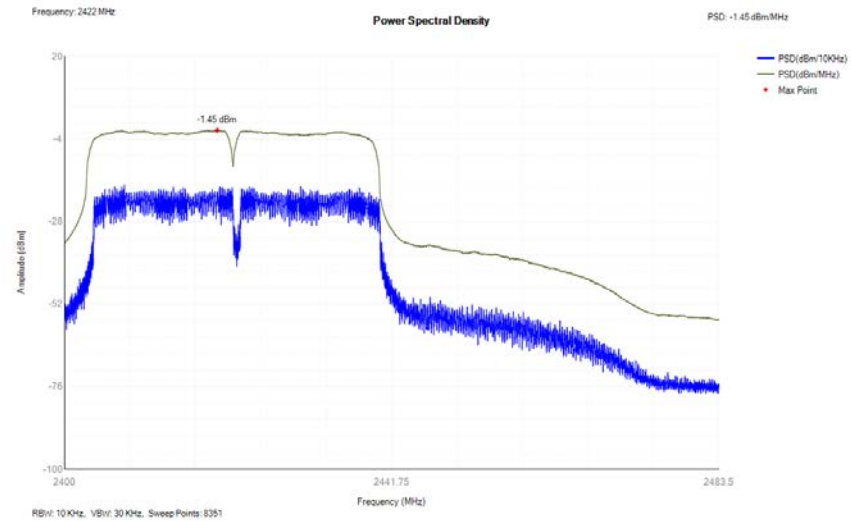
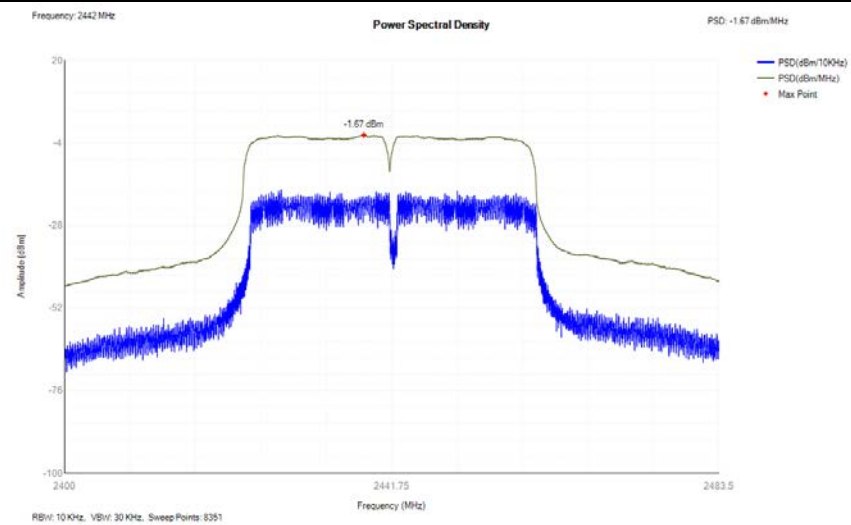
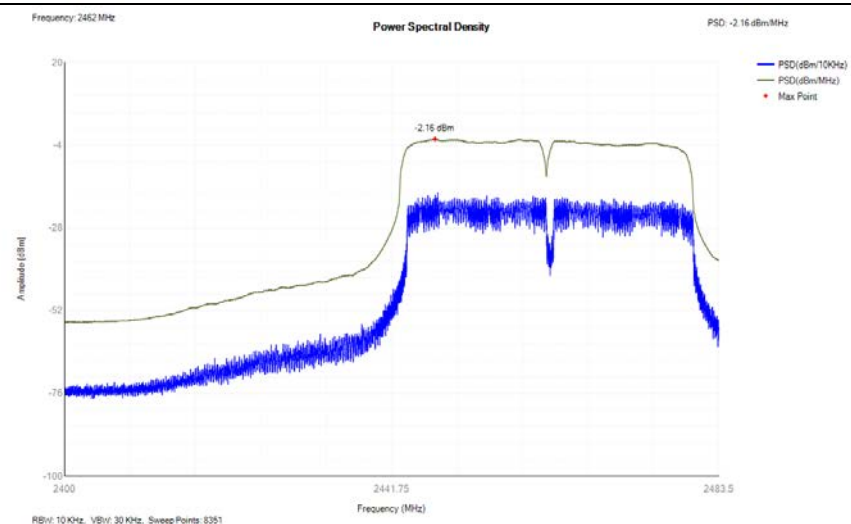


802.11ax20
Mid Channel

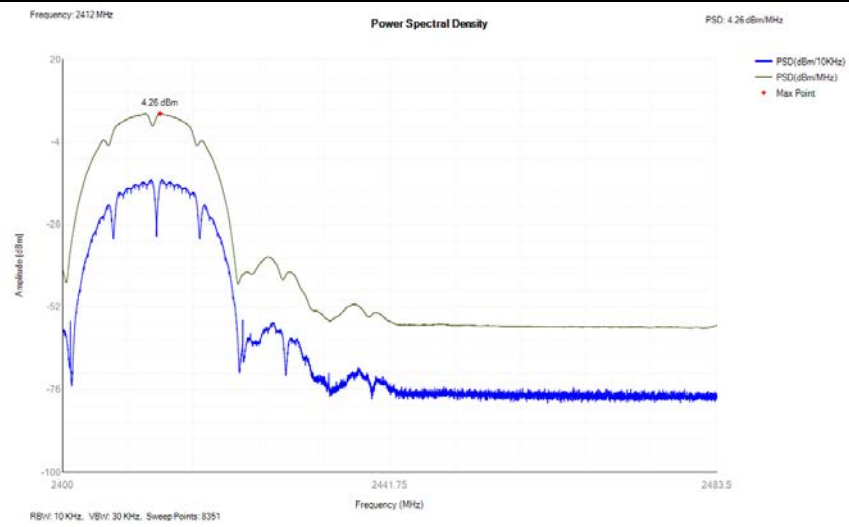
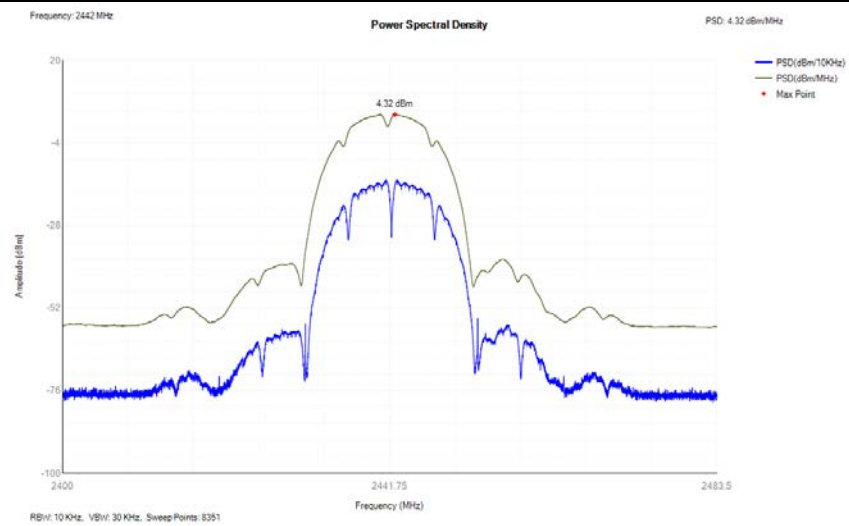
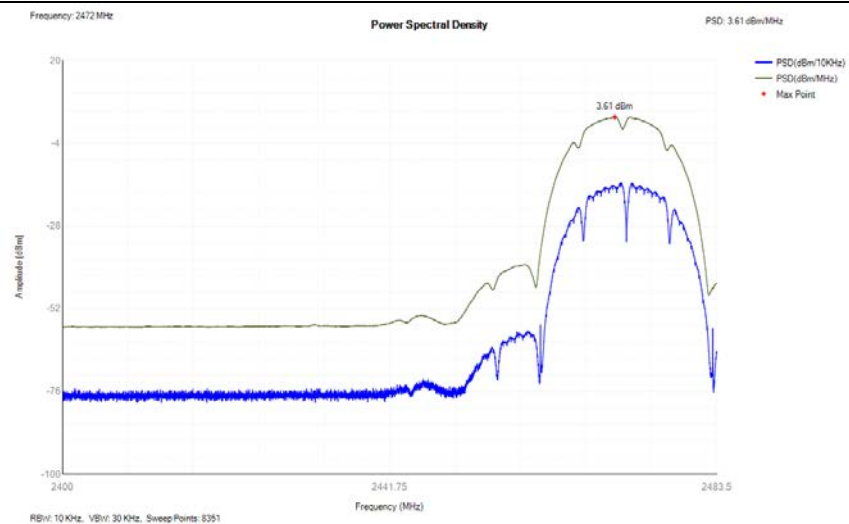


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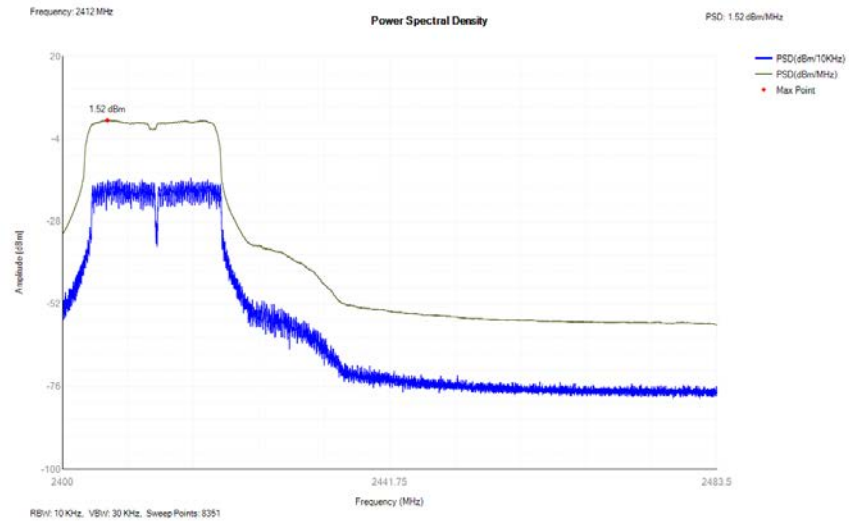


802.11ax40
Low Channel

802.11ax40
Mid Channel

802.11ax40
High Channel


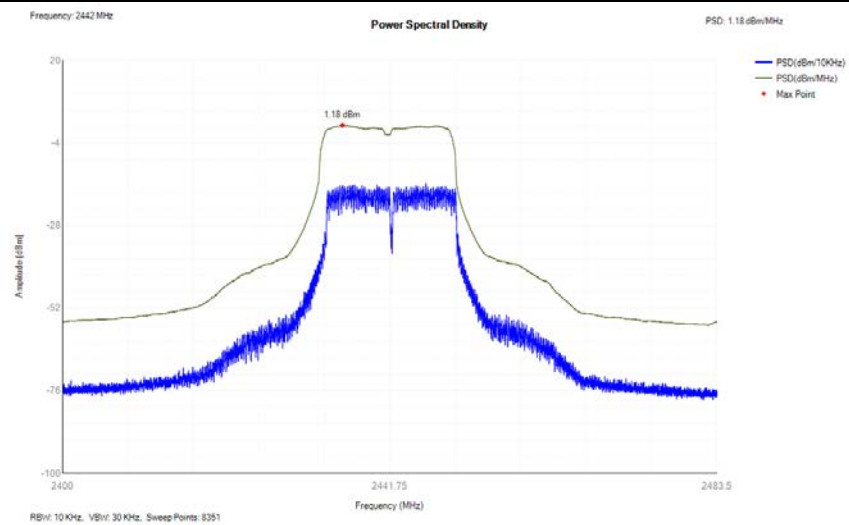
ANT2:

802.11b
Low Channel

802.11b
Mid Channel

802.11b
High Channel


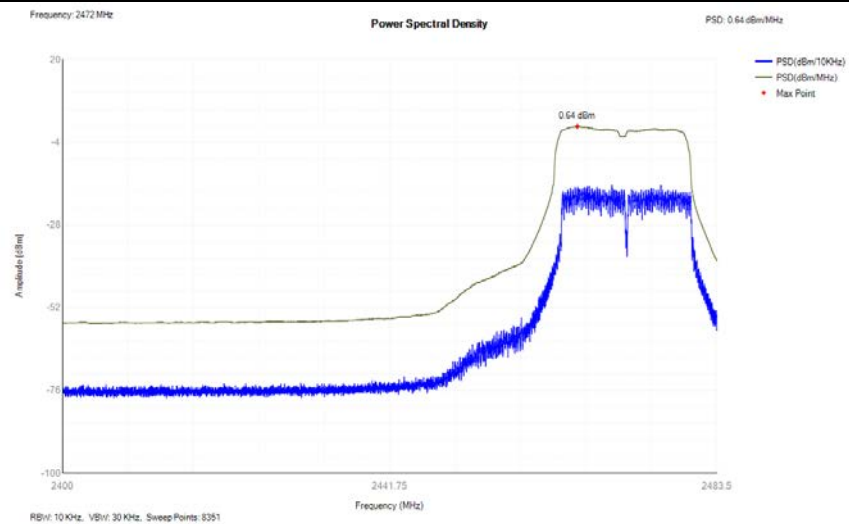
802.11g
Low Channel



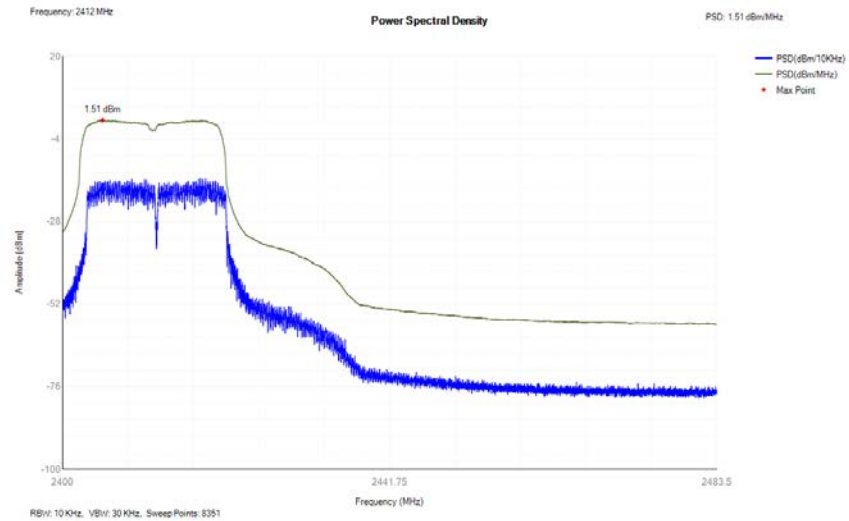
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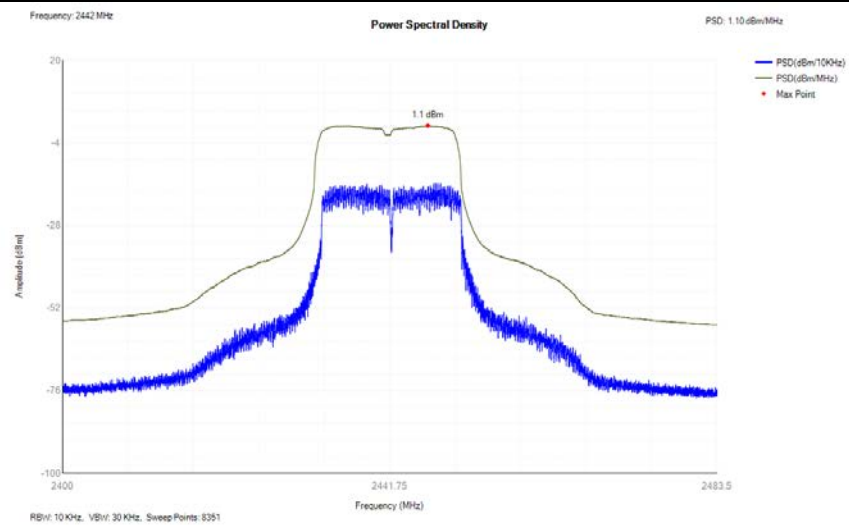
802.11g
High Channel



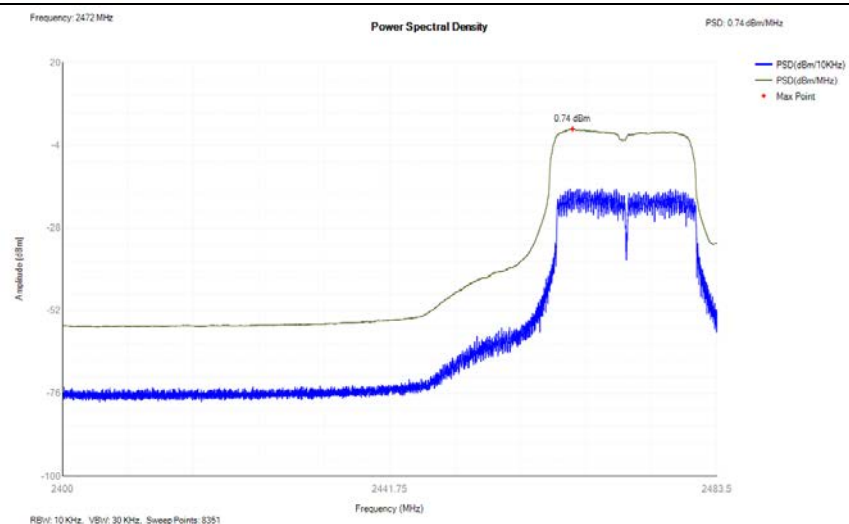
802.11n20
Low Channel



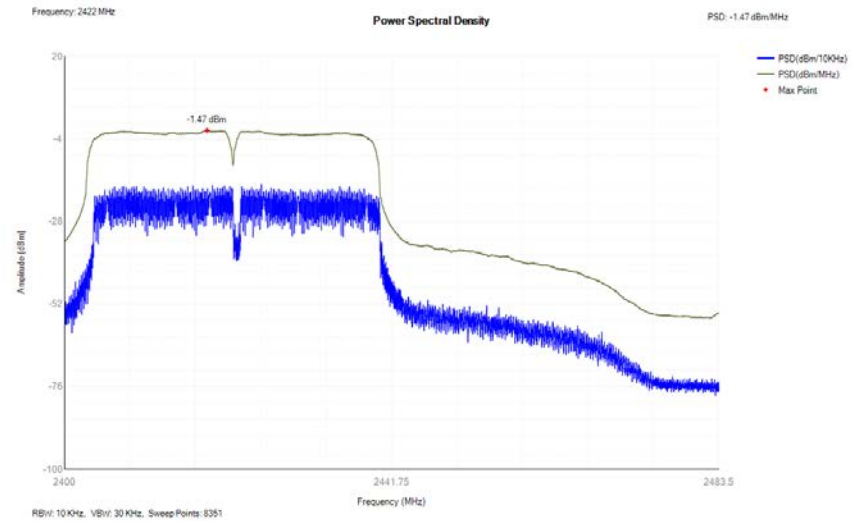
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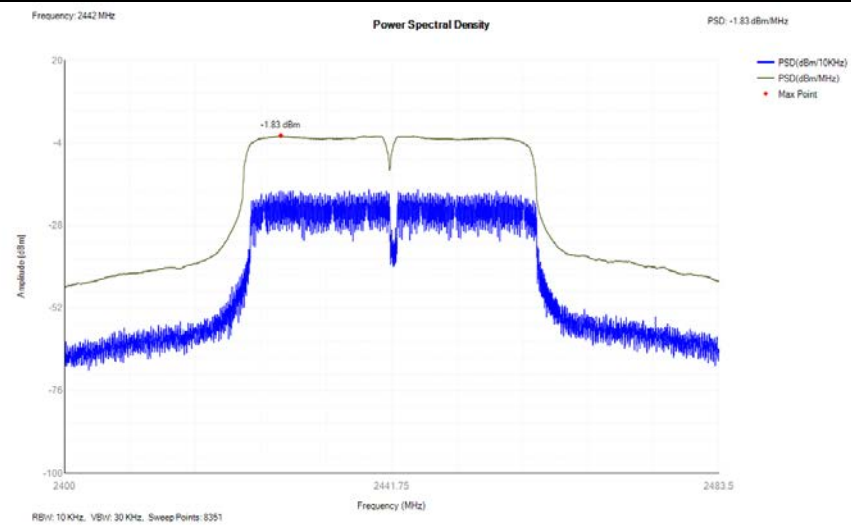
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High Channel



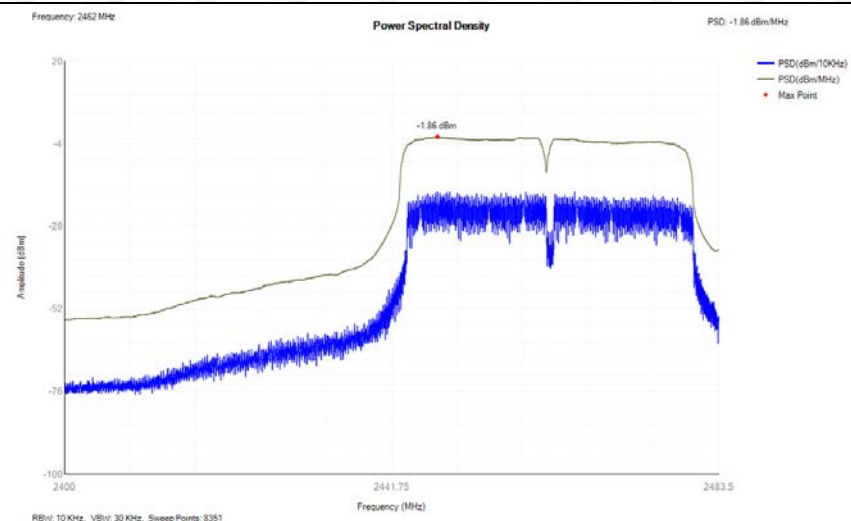
802.11n40
Low Channel



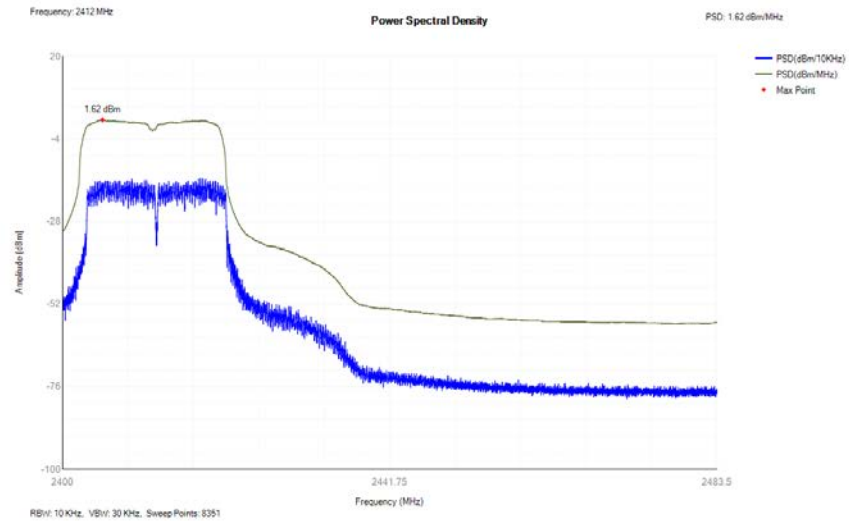
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Mid Channel



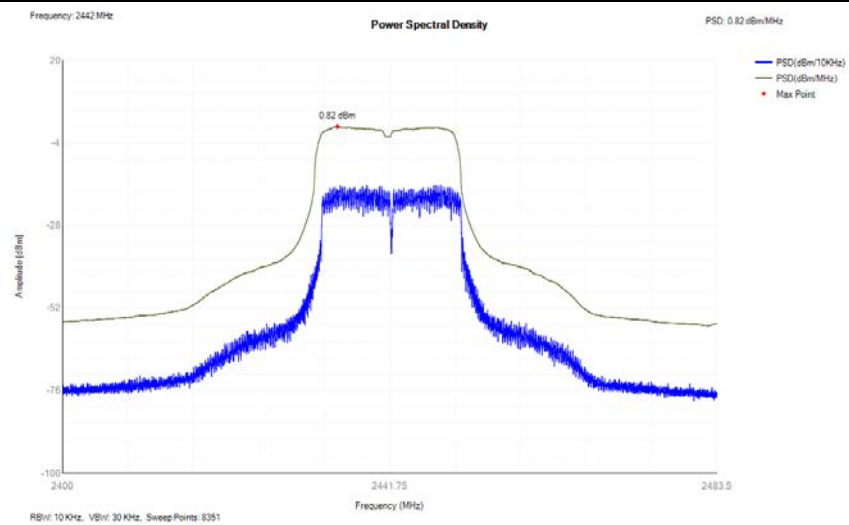
802.11n40
High Channel



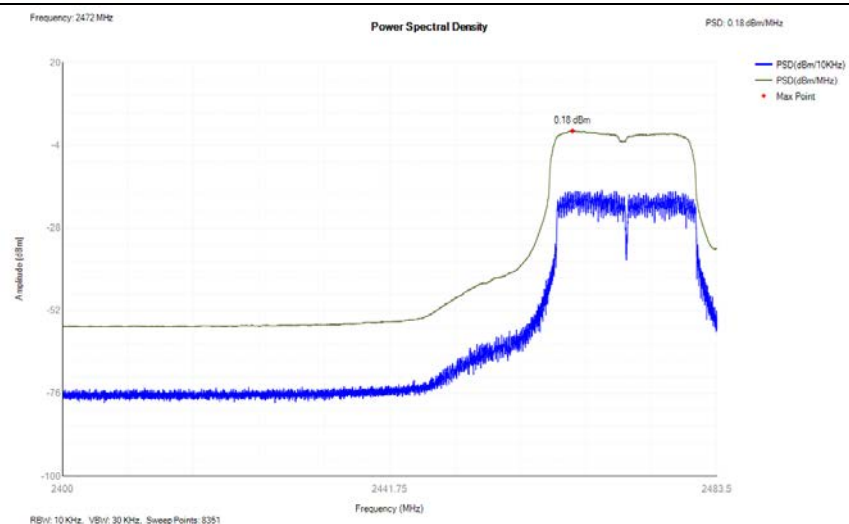
802.11ax20
Low Channel



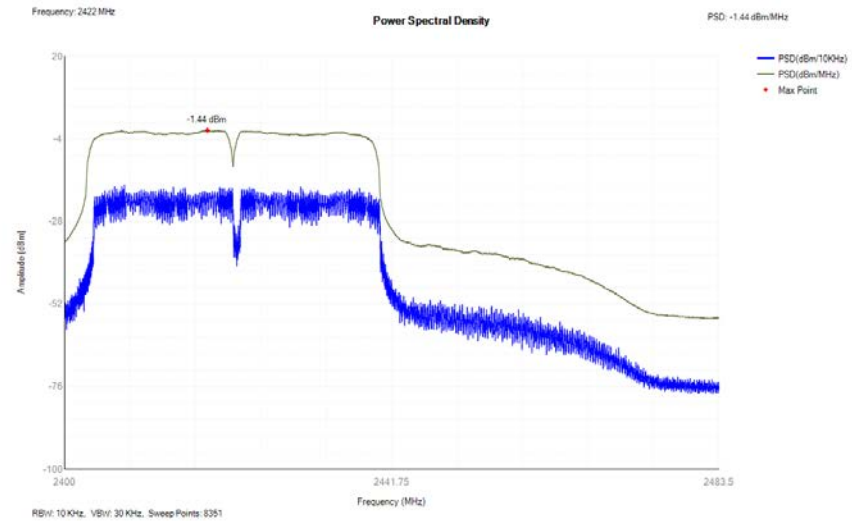
802.11ax20
Mid Channel



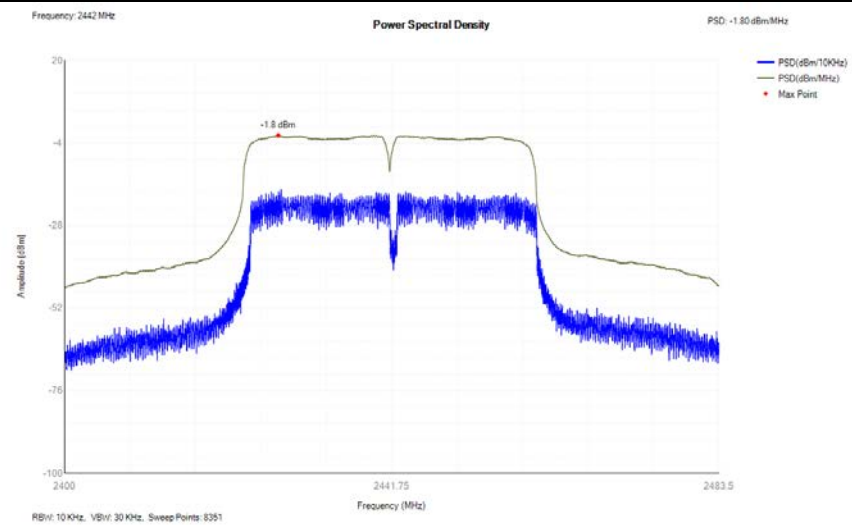
802.11ax20
High Channel



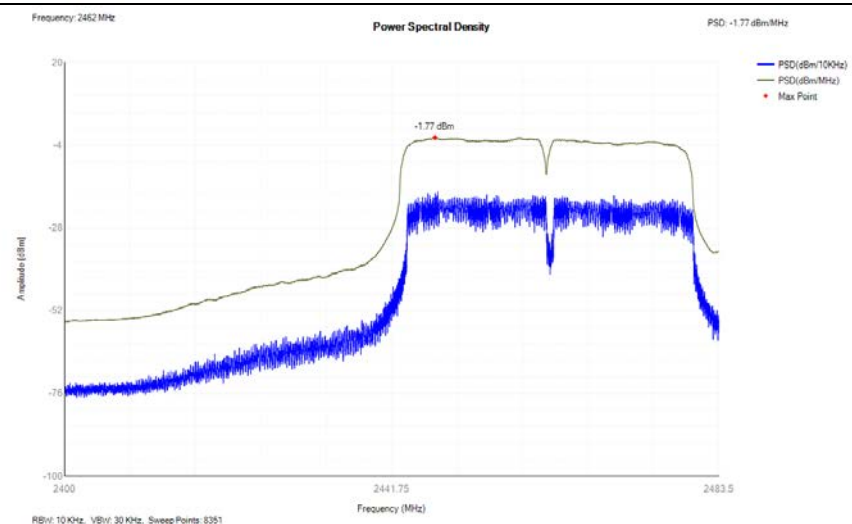
802.11ax40
Low Channel



802.11ax40
Mid Channel

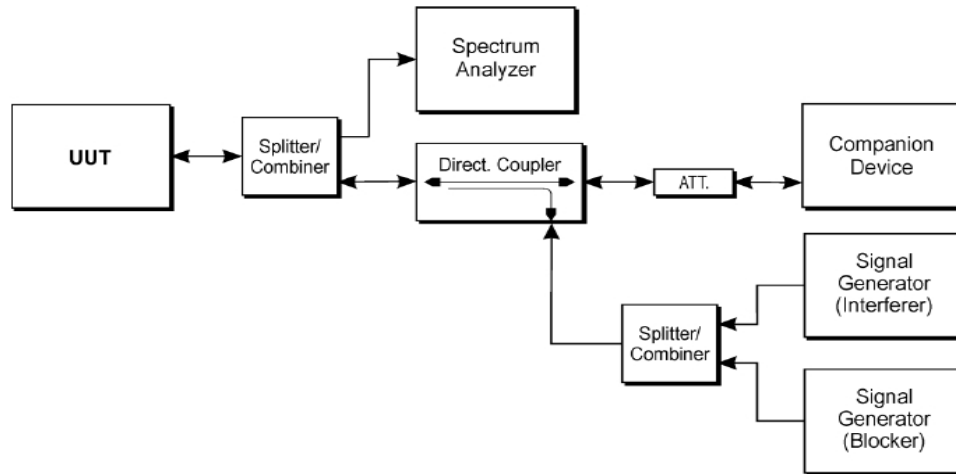


802.11ax40
High Channel



8. ADAPTIVITY

8.1 Block Diagram Of Test Setup



8.2 Limit

The frequency range of the equipment is determined by the lowest and highest

Non-LBT based Detect and Avoid:

- 1 The frequency shall remain unavailable for a minimum time equal to 1 second after which the channel maybe considered again as an 'available' channel;
- 2 COT ≤ 40 ms;
- 3 Idle Period = 5% of COT;
- 4 Detection threshold level = $-70\text{dBm/MHz} + 20 - \text{Pout E.I.R.P}$ (Pout in dBm);

LBT based Detect and Avoid (Frame Based Equipment):

- 1 Minimum Clear Channel Assessment (CCA) time = 20 us;
- 2 CCA observation time declared by the supplier;
- 3 COT = 1~10 ms;
- 4 Idle Period = 5% of COT;
- 5 Detection threshold level = $-70\text{dBm/MHz} + 20 - \text{Pout E.I.R.P}$ (Pout in dBm);

LBT based Detect and Avoid (Load Based Equipment):

- 1 Minimum Clear Channel Assessment (CCA) time = 20 us;
- 2 CCA declared by the manufacturer;
- 3 COT $\leq (13 / 32) * q$ ms; $q = [4 \sim 32]$; 1.625ms~13ms;
- 4 Detection threshold level = $-73\text{dBm/MHz} + 20 - \text{Pout E.I.R.P}$ (dBm);

Short Control Signalling Transmissions:

Short Control Signalling Transmissions shall have a maximum duty cycle of 10% within an observation period of 50ms.

8.3 Test procedure

Step 1:

The UUT may connect to a companion device during the test. The interference signal generator, the blocking signal generator, the spectrum analyser, the UUT and the companion device are connected using a set-up equivalent to the example given by figure 5 although the interference and blocking signal generator do not generate any signals at this point in time. The spectrum analyser is used to monitor the transmissions of the UUT in response to the interfering and the blocking signals.

Adjust the received signal level (wanted signal from the companion device) at the UUT to the value defined in table 6

The analyzer shall be set as follows:

- RBW: \geq Occupied Channel Bandwidth (if the analyser does not support this setting, the highest available setting shall be used)
- VBW: $3 \times$ RBW (if the analyser does not support this setting, the highest available setting shall be used)
- Detector Mode: RMS
- Centre Frequency: Equal to the centre frequency of the operating channel
- Span: 0 Hz
- Sweep time: $>$ Channel Occupancy Time of the UUT
- Trace Mode: Clear/Write
- Trigger Mode: Video

Step 2:

Configure the UUT for normal transmissions with a sufficiently high payload to allow demonstration of compliance of the adaptive mechanism on the channel being tested

Using the procedure defined in clause 5.3.7.2.1.4, it shall be verified that the UUT complies with the maximum Channel Occupancy Time and minimum Idle Period

Step 3: Adding the interference signal

A 100 % duty cycle interference signal is injected on the current operating channel of the UUT. This interference signal shall be a band limited noise signal which has a flat power spectral density, and shall have a bandwidth greater than the Occupied Channel Bandwidth of the UUT. The maximum ripple of this interfering signal shall be $\pm 1,5$ dB within the Occupied Channel Bandwidth and the power spectral density.

Step 4: Verification of reaction to the interference signal

The spectrum analyser shall be used to monitor the transmissions of the UUT on the selected operating channel with the interfering signal injected. This may require the spectrum analyser sweep to be triggered by the start of the interfering signal.

Using the procedure defined in clause 5.3.7.2.1.4, it shall be verified that:

The UUT shall stop transmissions on the current operating channel being tested.

Apart from Short Control Signalling Transmissions (see iii) below), there shall be no subsequent transmissions on this operating channel for a (silent) period defined in clause 4.3.2.5.1.2 step 2. After that, the UUT may have normal transmissions again for the duration of a single Channel Occupancy Time period. Because the interference signal is still present, another silent period as defined in clause 4.3.2.5.1.2 step 2 needs to be included. This sequence is repeated as long as the interfering signal is present.

The UUT may continue to have Short Control Signalling Transmissions on the operating channel while the interference signal is present. These transmissions shall comply with the limits

Alternatively, the equipment may switch to a non-adaptive mode

Step 5: Adding the blocking signal

With the interfering signal present, a 100 % duty cycle CW signal is inserted as the blocking signal

Repeat step 4 to verify that the UUT does not resume any normal transmissions

Step 6: Removing the interference and blocking signal

On removal of the interference and blocking signal the UUT is allowed to start transmissions again on this channel however, it shall be verified that this shall only be done after the period defined in clause 4.3.2.5.1.2 step 2.

Step 7:

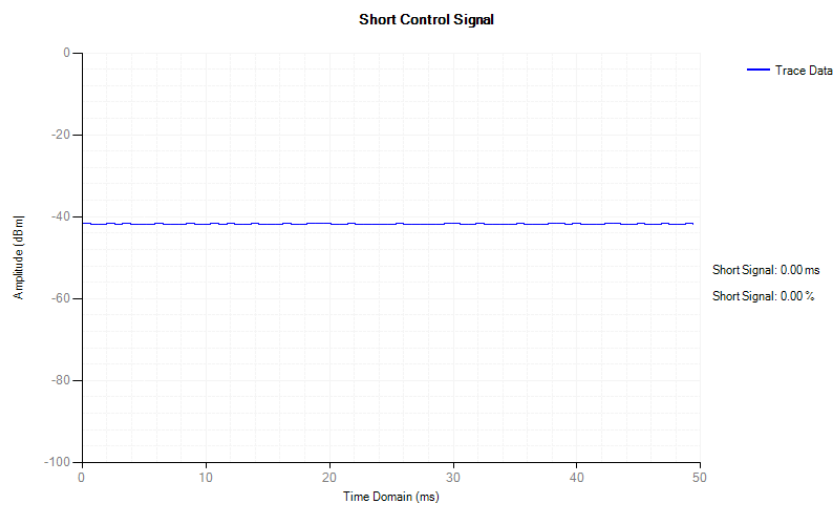
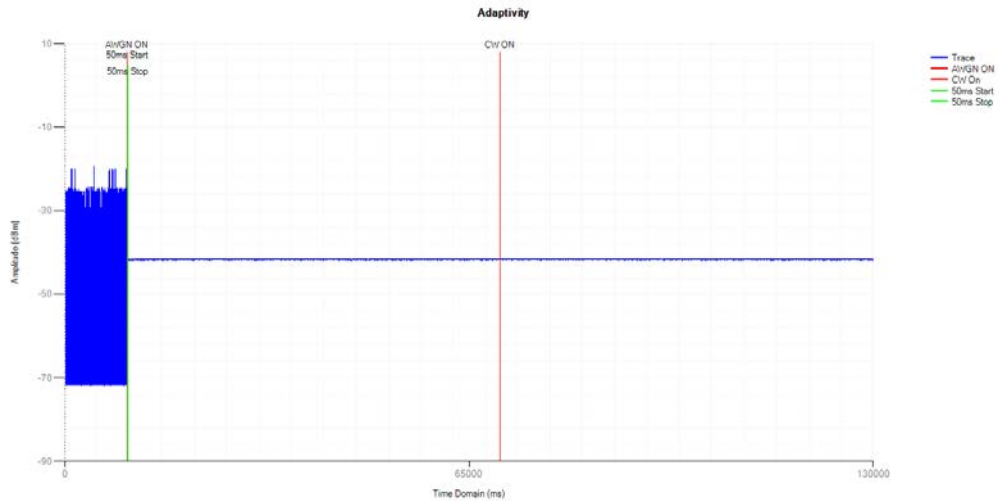
The steps 2 to 6 shall be repeated for each of the frequencies to be tested.

8.4 Test Result

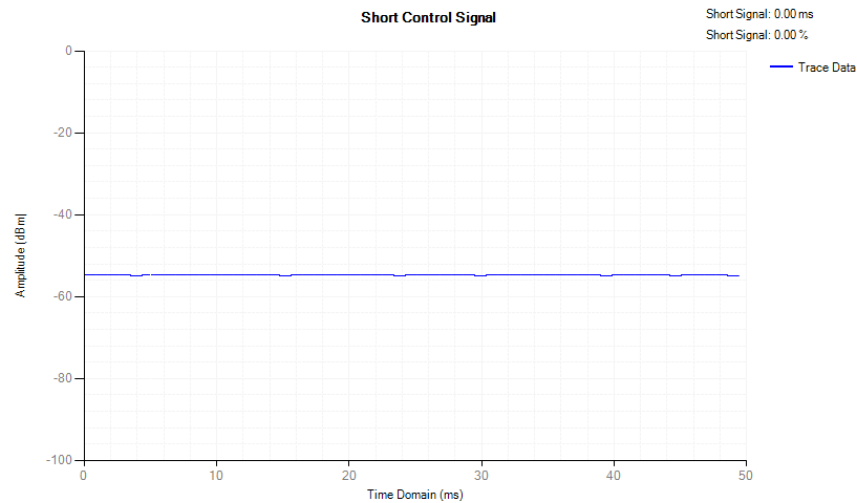
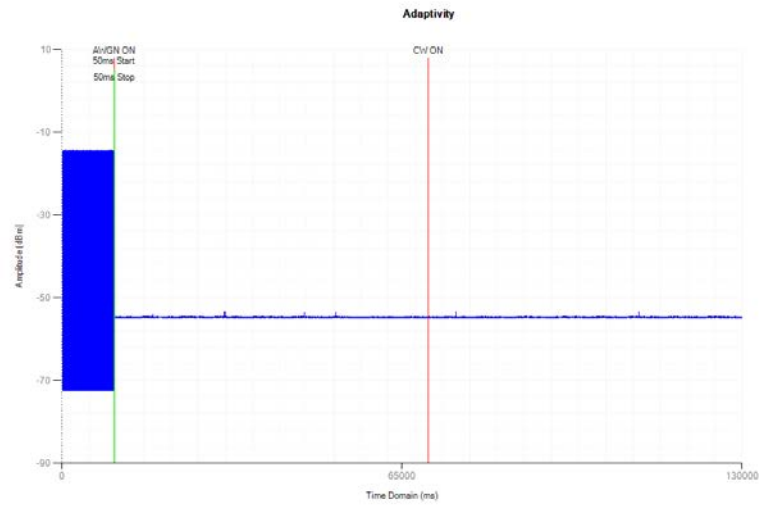
Pass

ANT1:

802.11b Low Channel (the worse case)

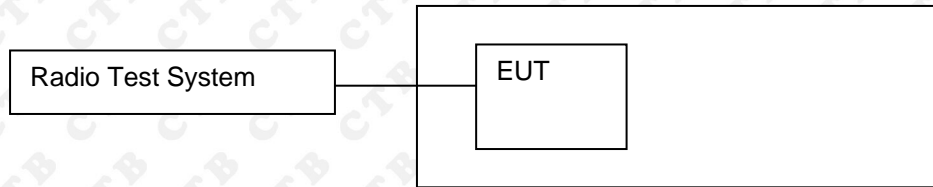


ANT2:
802.11b (the worse case)



9. OCCUPIED CHANNEL BANDWIDTH

9.1 Block Diagram Of Test Setup



9.2 Limit

The Occupied Channel Bandwidth shall fall completely within the band given in 2.4GHz to 2.4835GHz. In addition, for non-adaptive systems using wide band modulations other than FHSS and with e.i.r.p greater than 10 dBm, the occupied channel bandwidth shall be less than 20 MHz.

9.3 Test procedure

Step 1:

Connect the UUT to the spectrum analyser and use the following settings:

- Centre Frequency: The centre frequency of the channel under test
- Resolution BW: ~ 1 % of the span without going below 1 %
- Video BW: 3 × RBW
- Frequency Span: 2 × Nominal Channel Bandwidth
- Detector Mode: RMS
- Trace Mode: Max Hold
- Sweep time: 1 s

Step 2:

Wait for the trace to stabilize.

Find the peak value of the trace and place the analyser marker on this peak.

Step 3:

Use the 99 % bandwidth function of the spectrum analyser to measure the Occupied Channel Bandwidth of the UUT.

This value shall be recorded.

NOTE: Make sure that the power envelope is sufficiently above the noise floor of the analyser to avoid the noise signals left and right from the power envelope being taken into account by this measurement.

9.4 Test Result

ANT1:

Modulation	Frequency (MHz)	Frequency Range (MHz)		Occupied Channel (MHz)
802.11b	Low	2411.977	/	15.023
	High	/	2471.955	15.046
802.11g	Low	2411.978	/	16.809
	High	/	2471.985	16.775
802.11n20	Low	2412.001	/	17.789
	High	/	2472.009	17.77
802.11n40	Low	2422.058	/	36.354
	High	/	2462.002	36.359
802.11ax20	Low	2412.012	/	17.725
	High	/	2471.976	17.696
802.11ax40	Low	2422.014	/	36.17
	High	/	2461.949	36.069

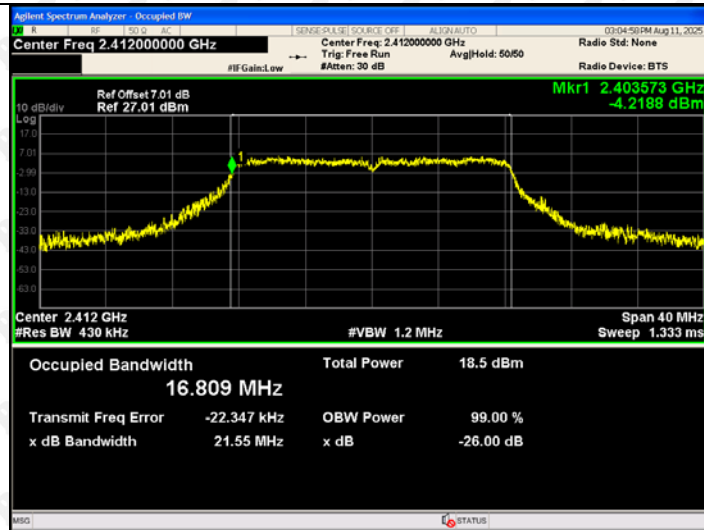
ANT2:

Modulation	Frequency (MHz)	Frequency Range (MHz)		Occupied Channel (MHz)
802.11b	Low	2411.974	/	14.955
	High	/	2471.931	14.942
802.11g	Low	2412.006	/	16.734
	High	/	2471.982	16.708
802.11n20	Low	2412.017	/	17.703
	High	/	2471.981	17.719
802.11n40	Low	2422.024	/	36.198
	High	/	2461.979	36.123
802.11ax20	Low	2412.014	/	17.702
	High	/	2471.967	17.748
802.11ax40	Low	2422.036	/	36.125
	High	/	2461.986	36.076

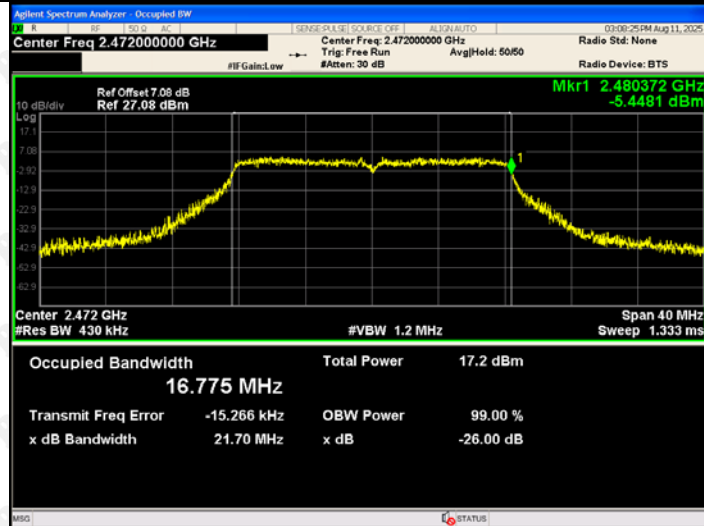
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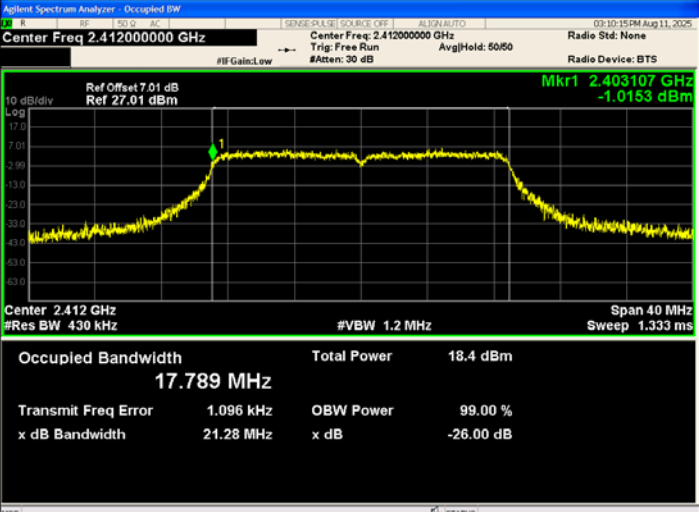
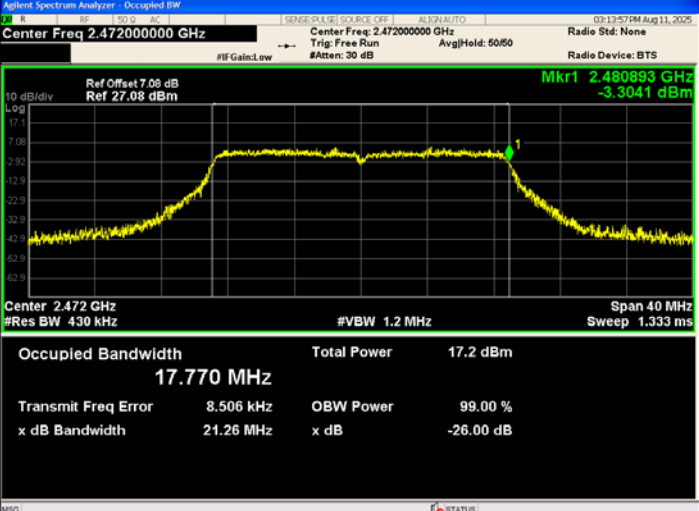
<p>802.11b Low Channel</p>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.41200000 GHz</p> <p>Ref Offset 7.01 dB Ref 27.01 dBm</p> <p>Mkr1 2.404465 GHz -8.6901 dBm</p> <p>Center 2.412 GHz #Res BW 430 kHz</p> <p>#VBW 1.2 MHz</p> <p>Span 40 MHz Sweep 1.333 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> </tr> <tr> <td>15.023 MHz</td> <td>15.6 dBm</td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> </tr> <tr> <td>-23.329 kHz</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> </tr> <tr> <td>18.55 MHz</td> <td>-26.00 dB</td> </tr> </table>	Occupied Bandwidth	Total Power	15.023 MHz	15.6 dBm	Transmit Freq Error	OBW Power	-23.329 kHz	99.00 %	x dB Bandwidth	x dB	18.55 MHz	-26.00 dB
Occupied Bandwidth	Total Power												
15.023 MHz	15.6 dBm												
Transmit Freq Error	OBW Power												
-23.329 kHz	99.00 %												
x dB Bandwidth	x dB												
18.55 MHz	-26.00 dB												
<p>802.11b High Channel</p>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.47200000 GHz</p> <p>Ref Offset 7.08 dB Ref 27.08 dBm</p> <p>Mkr1 2.479478 GHz -10.036 dBm</p> <p>Center 2.472 GHz #Res BW 430 kHz</p> <p>#VBW 1.2 MHz</p> <p>Span 40 MHz Sweep 1.333 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> </tr> <tr> <td>15.046 MHz</td> <td>14.4 dBm</td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> </tr> <tr> <td>-45.035 kHz</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> </tr> <tr> <td>18.76 MHz</td> <td>-26.00 dB</td> </tr> </table>	Occupied Bandwidth	Total Power	15.046 MHz	14.4 dBm	Transmit Freq Error	OBW Power	-45.035 kHz	99.00 %	x dB Bandwidth	x dB	18.76 MHz	-26.00 dB
Occupied Bandwidth	Total Power												
15.046 MHz	14.4 dBm												
Transmit Freq Error	OBW Power												
-45.035 kHz	99.00 %												
x dB Bandwidth	x dB												
18.76 MHz	-26.00 dB												

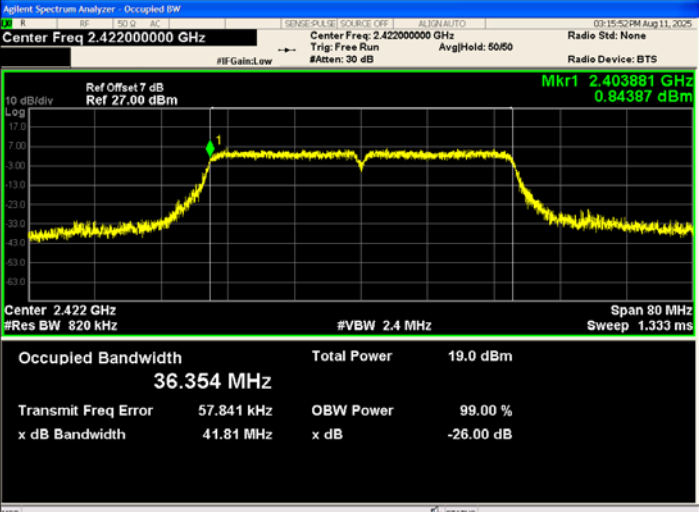
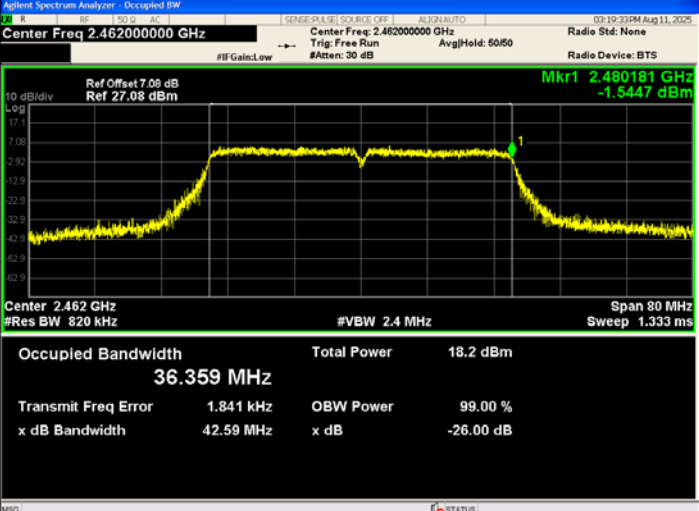
802.11g
Low
Channel

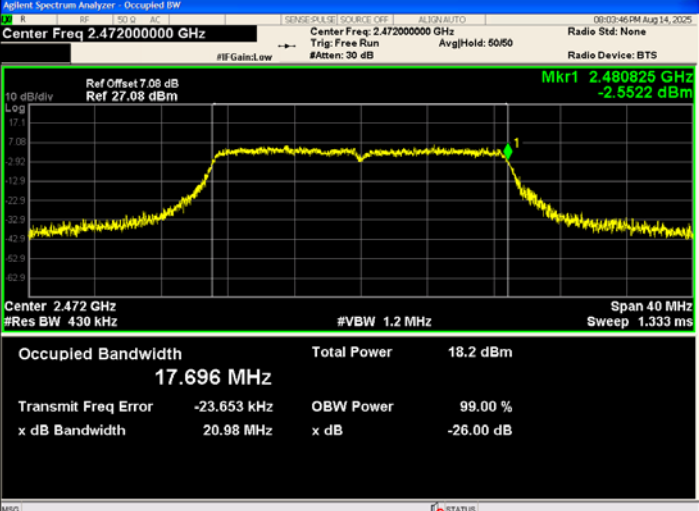


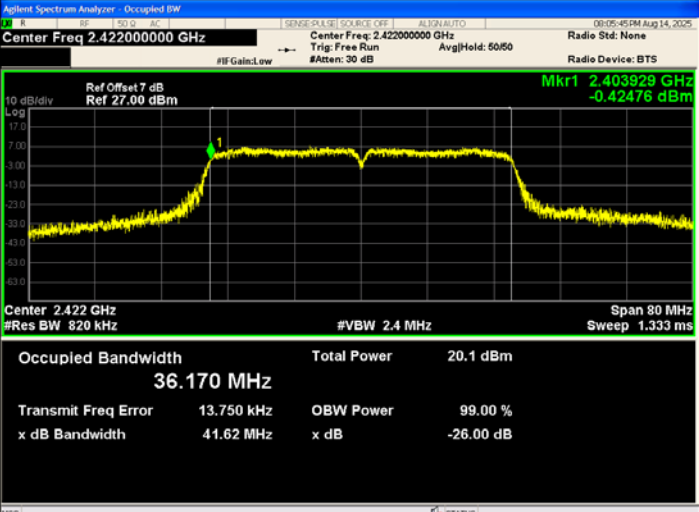
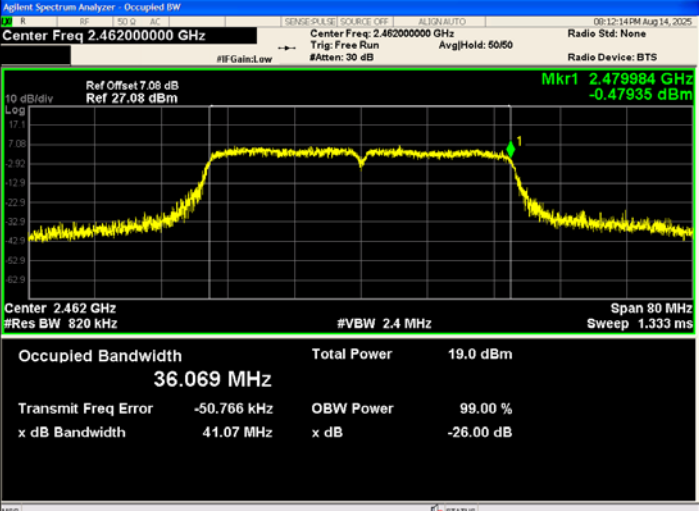
802.11g
High
Channel



<p>802.11n20 Low Channel</p>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.412000000 GHz</p> <p>Center Freq: 2.412000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 50/50</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset 7.01 dB</p> <p>Ref 27.01 dBm</p> <p>Mkr1 2.403107 GHz</p> <p>-1.0153 dBm</p> <p>Center 2.412 GHz</p> <p>#Res BW 430 kHz</p> <p>#VBW 1.2 MHz</p> <p>Span 40 MHz</p> <p>Sweep 1.333 ms</p> <p>Occupied Bandwidth 17.789 MHz</p> <p>Total Power 18.4 dBm</p> <p>Transmit Freq Error 1.096 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 21.28 MHz</p> <p>x dB -26.00 dB</p>
<p>802.11n20 High Channel</p>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.472000000 GHz</p> <p>Center Freq: 2.472000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 50/50</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset 7.08 dB</p> <p>Ref 27.08 dBm</p> <p>Mkr1 2.480893 GHz</p> <p>-3.3041 dBm</p> <p>Center 2.472 GHz</p> <p>#Res BW 430 kHz</p> <p>#VBW 1.2 MHz</p> <p>Span 40 MHz</p> <p>Sweep 1.333 ms</p> <p>Occupied Bandwidth 17.770 MHz</p> <p>Total Power 17.2 dBm</p> <p>Transmit Freq Error 8.506 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 21.26 MHz</p> <p>x dB -26.00 dB</p>

<p>802.11n40 Low Channel</p>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.42200000 GHz</p> <p>Center Freq: 2.42200000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 50/50</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset 7 dB</p> <p>Ref 27.00 dBm</p> <p>Mkr1 2.403881 GHz</p> <p>0.84387 dBm</p> <p>Center 2.422 GHz</p> <p>#Res BW 820 kHz</p> <p>#VBW 2.4 MHz</p> <p>Span 80 MHz</p> <p>Sweep 1.333 ms</p> <p>Occupied Bandwidth 36.354 MHz</p> <p>Total Power 19.0 dBm</p> <p>Transmit Freq Error 57.841 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 41.81 MHz</p> <p>x dB -26.00 dB</p>
<p>802.11n40 High Channel</p>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.46200000 GHz</p> <p>Center Freq: 2.46200000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 50/50</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset 7.08 dB</p> <p>Ref 27.08 dBm</p> <p>Mkr1 2.480181 GHz</p> <p>-1.5447 dBm</p> <p>Center 2.462 GHz</p> <p>#Res BW 820 kHz</p> <p>#VBW 2.4 MHz</p> <p>Span 80 MHz</p> <p>Sweep 1.333 ms</p> <p>Occupied Bandwidth 36.359 MHz</p> <p>Total Power 18.2 dBm</p> <p>Transmit Freq Error 1.841 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 42.59 MHz</p> <p>x dB -26.00 dB</p>

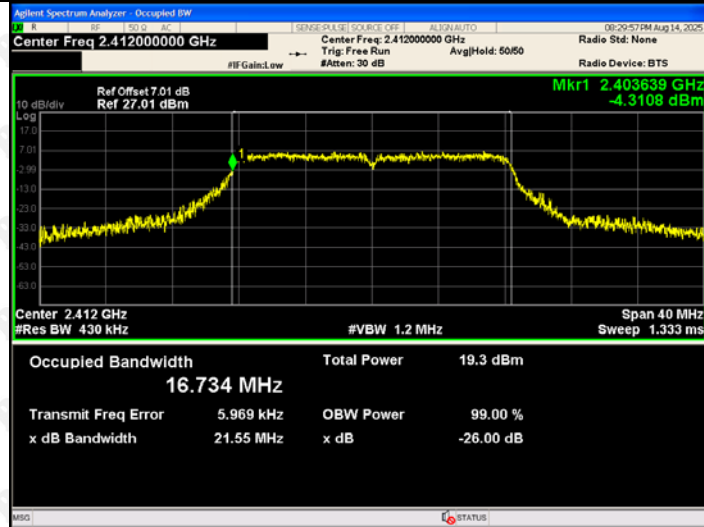
802.11ax20 Low Channel	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.412000000 GHz</p> <p>Center Freq: 2.412000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 50/50</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset 7.01 dB</p> <p>Ref 27.01 dBm</p> <p>Mkr1 2.403149 GHz</p> <p>-2.6956 dBm</p> <p>Center 2.412 GHz</p> <p>#Res BW 430 kHz</p> <p>#VBW 1.2 MHz</p> <p>Span 40 MHz</p> <p>Sweep 1.333 ms</p> <p>Occupied Bandwidth 17.725 MHz</p> <p>Total Power 19.6 dBm</p> <p>Transmit Freq Error 11.689 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 21.04 MHz</p> <p>x dB -26.00 dB</p>
802.11ax20 High Channel	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.472000000 GHz</p> <p>Center Freq: 2.472000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 50/50</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset 7.08 dB</p> <p>Ref 27.08 dBm</p> <p>Mkr1 2.480825 GHz</p> <p>-2.5522 dBm</p> <p>Center 2.472 GHz</p> <p>#Res BW 430 kHz</p> <p>#VBW 1.2 MHz</p> <p>Span 40 MHz</p> <p>Sweep 1.333 ms</p> <p>Occupied Bandwidth 17.696 MHz</p> <p>Total Power 18.2 dBm</p> <p>Transmit Freq Error -23.653 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 20.98 MHz</p> <p>x dB -26.00 dB</p>

802.11ax40 Low Channel	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.422000000 GHz</p> <p>Center Freq: 2.422000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 50/50</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset 7 dB</p> <p>Ref 27.00 dBm</p> <p>Mkr1 2.403929 GHz</p> <p>-0.42476 dBm</p> <p>Center 2.422 GHz</p> <p>#Res BW 820 kHz</p> <p>#VBW 2.4 MHz</p> <p>Span 80 MHz</p> <p>Sweep 1.333 ms</p> <p>Occupied Bandwidth 36.170 MHz</p> <p>Total Power 20.1 dBm</p> <p>Transmit Freq Error 13.750 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 41.62 MHz</p> <p>x dB -26.00 dB</p>
802.11ax40 High Channel	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.462000000 GHz</p> <p>Center Freq: 2.462000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 50/50</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset 7.08 dB</p> <p>Ref 27.08 dBm</p> <p>Mkr1 2.479984 GHz</p> <p>-0.47935 dBm</p> <p>Center 2.462 GHz</p> <p>#Res BW 820 kHz</p> <p>#VBW 2.4 MHz</p> <p>Span 80 MHz</p> <p>Sweep 1.333 ms</p> <p>Occupied Bandwidth 36.069 MHz</p> <p>Total Power 19.0 dBm</p> <p>Transmit Freq Error -50.766 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 41.07 MHz</p> <p>x dB -26.00 dB</p>

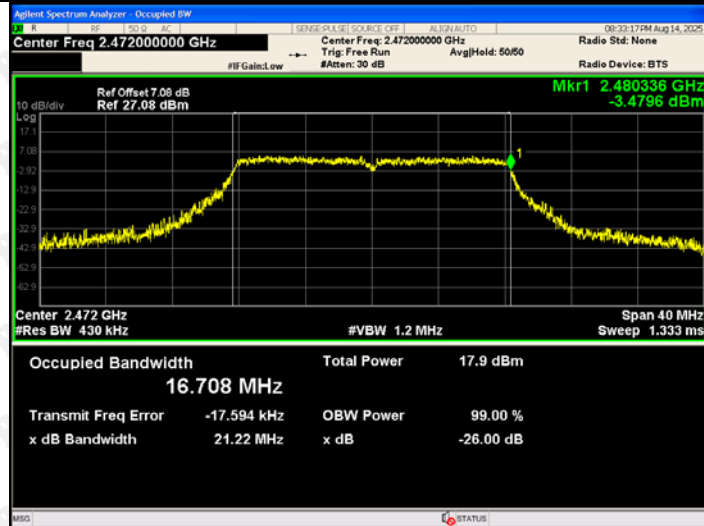
ANT2:

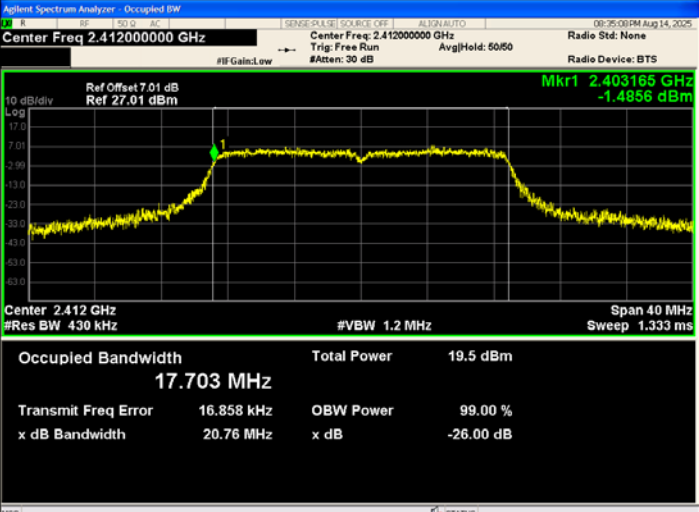
802.11b Low Channel	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.41200000 GHz</p> <p>Ref Offset 7.01 dB Ref 27.01 dBm</p> <p>Mkr1 2.404497 GHz -7.8807 dBm</p> <p>Center 2.412 GHz #Res BW 430 kHz</p> <p>#VBW 1.2 MHz</p> <p>Span 40 MHz Sweep 1.333 ms</p> <p>Occupied Bandwidth 14.955 MHz</p> <p>Total Power 16.3 dBm</p> <p>Transmit Freq Error -26.001 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 18.46 MHz</p> <p>x dB -26.00 dB</p>
802.11b High Channel	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.47200000 GHz</p> <p>Ref Offset 7.08 dB Ref 27.08 dBm</p> <p>Mkr1 2.479402 GHz -9.8545 dBm</p> <p>Center 2.472 GHz #Res BW 430 kHz</p> <p>#VBW 1.2 MHz</p> <p>Span 40 MHz Sweep 1.333 ms</p> <p>Occupied Bandwidth 14.942 MHz</p> <p>Total Power 15.6 dBm</p> <p>Transmit Freq Error -68.813 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 18.47 MHz</p> <p>x dB -26.00 dB</p>

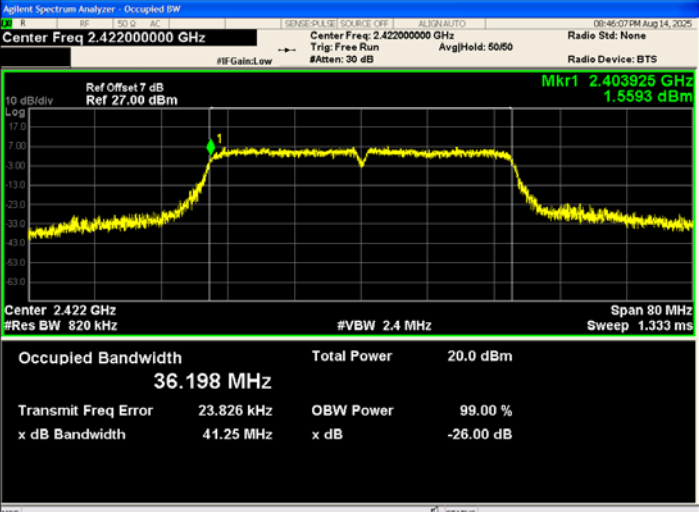
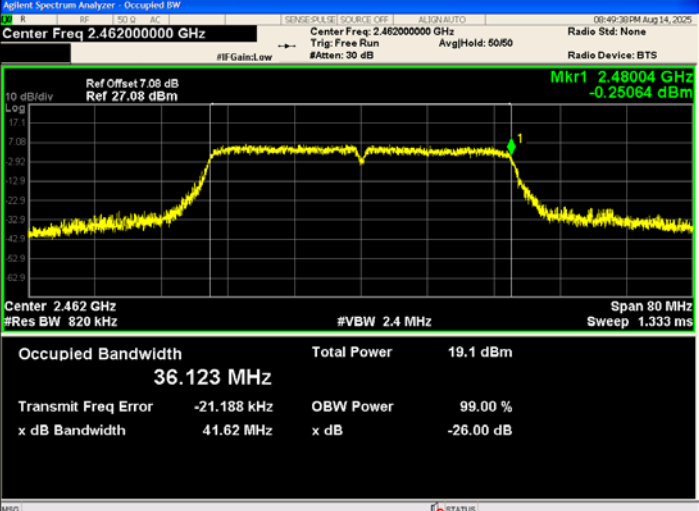
802.11g
Low
Channel

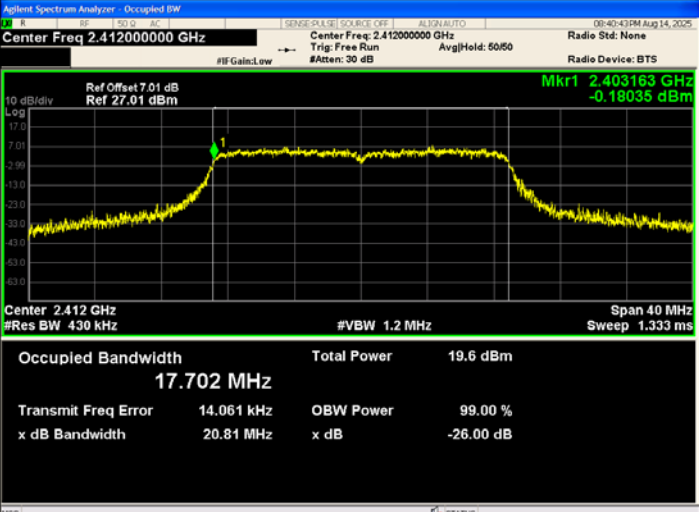
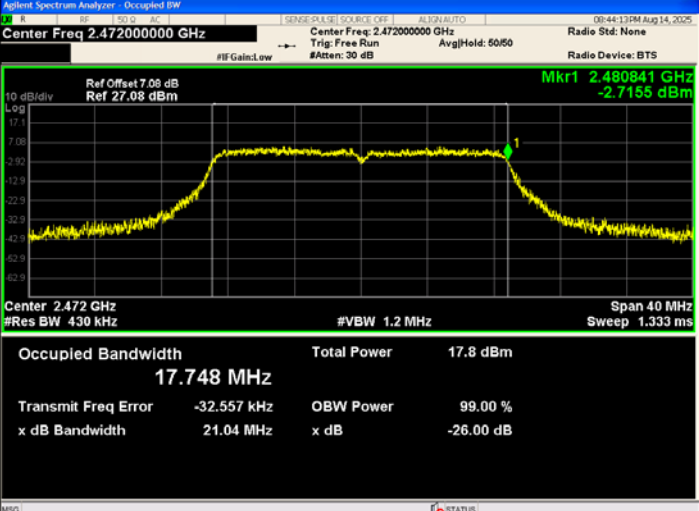


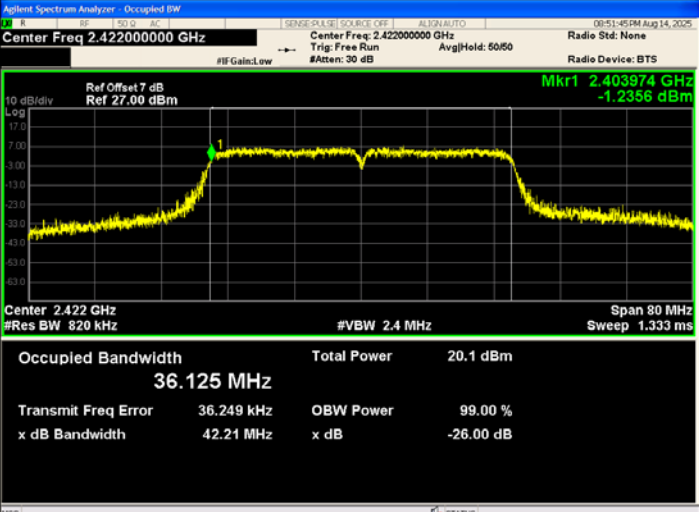
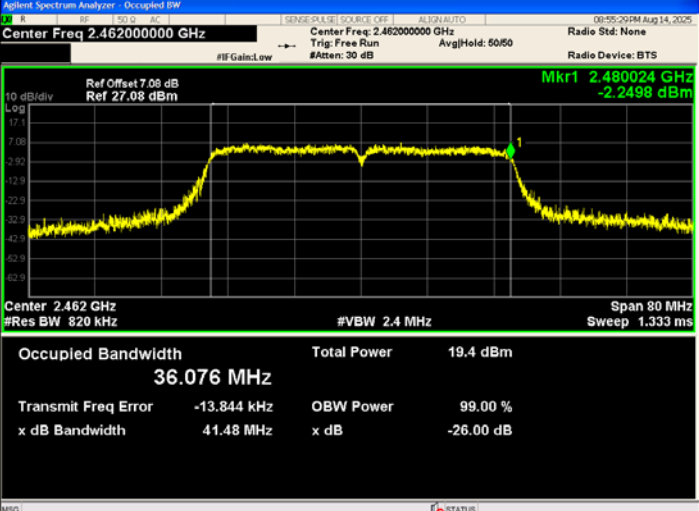
802.11g
High
Channel



<p>802.11n20 Low Channel</p>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.412000000 GHz</p> <p>Center Freq: 2.412000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 50/50</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset 7.01 dB</p> <p>Ref 27.01 dBm</p> <p>Mkr1 2.403165 GHz</p> <p>-1.4856 dBm</p> <p>Center 2.412 GHz</p> <p>#Res BW 430 kHz</p> <p>#VBW 1.2 MHz</p> <p>Span 40 MHz</p> <p>Sweep 1.333 ms</p> <p>Occupied Bandwidth</p> <p>17.703 MHz</p> <p>Total Power</p> <p>19.5 dBm</p> <p>Transmit Freq Error</p> <p>16.858 kHz</p> <p>OBW Power</p> <p>99.00 %</p> <p>x dB Bandwidth</p> <p>20.76 MHz</p> <p>x dB</p> <p>-26.00 dB</p>
<p>802.11n20 High Channel</p>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.472000000 GHz</p> <p>Center Freq: 2.472000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 50/50</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset 7.08 dB</p> <p>Ref 27.08 dBm</p> <p>Mkr1 2.480841 GHz</p> <p>-1.7120 dBm</p> <p>Center 2.472 GHz</p> <p>#Res BW 430 kHz</p> <p>#VBW 1.2 MHz</p> <p>Span 40 MHz</p> <p>Sweep 1.333 ms</p> <p>Occupied Bandwidth</p> <p>17.719 MHz</p> <p>Total Power</p> <p>18.3 dBm</p> <p>Transmit Freq Error</p> <p>-18.548 kHz</p> <p>OBW Power</p> <p>99.00 %</p> <p>x dB Bandwidth</p> <p>20.96 MHz</p> <p>x dB</p> <p>-26.00 dB</p>

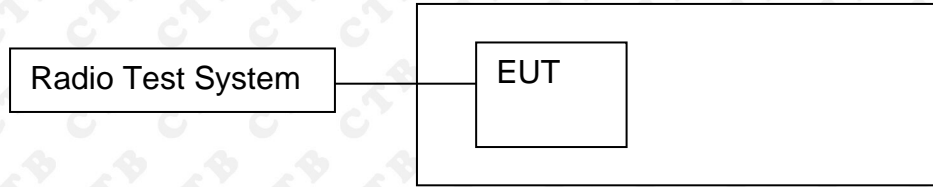
<p>802.11n40 Low Channel</p>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.422000000 GHz</p> <p>Ref Offset: 7 dB Ref: 27.00 dBm</p> <p>Span: 80 MHz Sweep: 1.333 ms</p> <p>Occupied Bandwidth: 36.198 MHz</p> <p>Total Power: 20.0 dBm</p> <p>Transmit Freq Error: 23.826 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB Bandwidth: 41.25 MHz</p> <p>x dB: -26.00 dB</p> <p>Mkr1: 2.403925 GHz 1.5593 dBm</p>
<p>802.11n40 High Channel</p>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.462000000 GHz</p> <p>Ref Offset: 7.08 dB Ref: 27.08 dBm</p> <p>Span: 80 MHz Sweep: 1.333 ms</p> <p>Occupied Bandwidth: 36.123 MHz</p> <p>Total Power: 19.1 dBm</p> <p>Transmit Freq Error: -21.188 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB Bandwidth: 41.62 MHz</p> <p>x dB: -26.00 dB</p> <p>Mkr1: 2.48004 GHz -0.25064 dBm</p>

802.11ax20 Low Channel	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.412000000 GHz</p> <p>Ref Offset: 7.01 dB</p> <p>Ref: 27.01 dBm</p> <p>Center: 2.412 GHz</p> <p>#Res BW: 430 kHz</p> <p>#VBW: 1.2 MHz</p> <p>Span: 40 MHz</p> <p>Sweep: 1.333 ms</p> <p>Occupied Bandwidth: 17.702 MHz</p> <p>Total Power: 19.6 dBm</p> <p>Transmit Freq Error: 14.061 kHz</p> <p>x dB Bandwidth: 20.81 MHz</p> <p>OBW Power: 99.00 %</p> <p>x dB: -26.00 dB</p> <p>Mkr1: 2.403163 GHz</p> <p>-0.18035 dBm</p>
802.11ax20 High Channel	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.472000000 GHz</p> <p>Ref Offset: 7.08 dB</p> <p>Ref: 27.08 dBm</p> <p>Center: 2.472 GHz</p> <p>#Res BW: 430 kHz</p> <p>#VBW: 1.2 MHz</p> <p>Span: 40 MHz</p> <p>Sweep: 1.333 ms</p> <p>Occupied Bandwidth: 17.748 MHz</p> <p>Total Power: 17.8 dBm</p> <p>Transmit Freq Error: -32.557 kHz</p> <p>x dB Bandwidth: 21.04 MHz</p> <p>OBW Power: 99.00 %</p> <p>x dB: -26.00 dB</p> <p>Mkr1: 2.480841 GHz</p> <p>-2.7155 dBm</p>

802.11ax40 Low Channel	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.422000000 GHz</p> <p>Ref Offset: 7 dB Ref: 27.00 dBm</p> <p>Mkr1: 2.403974 GHz -1.2356 dBm</p> <p>Center: 2.422 GHz #Res BW: 820 kHz</p> <p>#VBW: 2.4 MHz</p> <p>Span: 80 MHz Sweep: 1.333 ms</p> <p>Occupied Bandwidth: 36.125 MHz</p> <p>Total Power: 20.1 dBm</p> <p>Transmit Freq Error: 36.249 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB Bandwidth: 42.21 MHz</p> <p>x dB: -26.00 dB</p>
802.11ax40 High Channel	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.462000000 GHz</p> <p>Ref Offset: 7.08 dB Ref: 27.08 dBm</p> <p>Mkr1: 2.480024 GHz -2.2498 dBm</p> <p>Center: 2.462 GHz #Res BW: 820 kHz</p> <p>#VBW: 2.4 MHz</p> <p>Span: 80 MHz Sweep: 1.333 ms</p> <p>Occupied Bandwidth: 36.076 MHz</p> <p>Total Power: 19.4 dBm</p> <p>Transmit Freq Error: -13.844 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB Bandwidth: 41.48 MHz</p> <p>x dB: -26.00 dB</p>

10. TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN

10.1 Block Diagram Of Test Setup



10.2 Limit

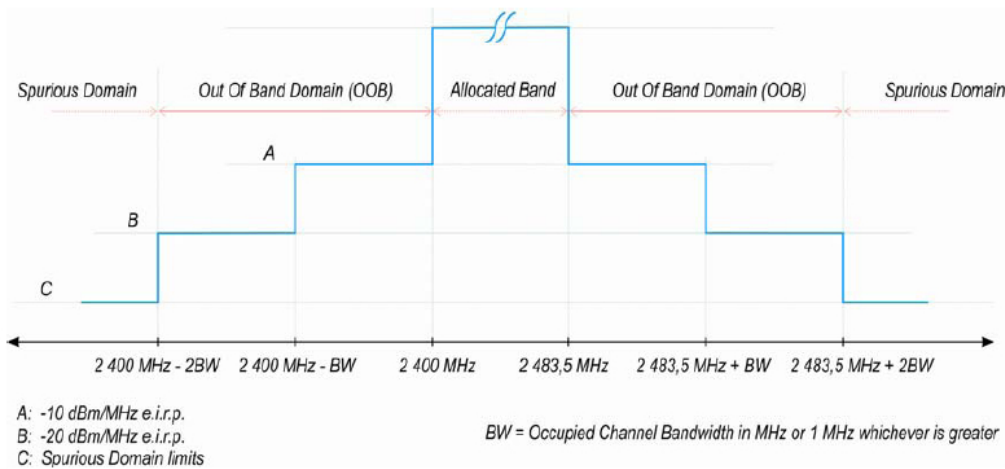


Figure 3: Transmit mask

10.3 Test procedure

The applicable mask is defined by the measurement results from the tests performed under clause 5.3.8 (Occupied Channel Bandwidth).

The test procedure is further as described under clause 5.3.9.2.1.

The Out-of-band emissions within the different horizontal segments of the mask provided in figures 1 and 3 shall be measured using the steps below. This method assumes the spectrum analyser is equipped with the Time Domain Power option.

Step 1:

- Connect the UUT to the spectrum analyser and use the following settings:
- Centre Frequency: 2 484 MHz
- Span: 0 Hz
- Resolution BW: 1 MHz
- Filter mode: Channel filter
- Video BW: 3 MHz
- Detector Mode: RMS
- Trace Mode: Max Hold

- Sweep Mode: Continuous
- Sweep Points: Sweep Time [s] / (1 μ s) or 5 000 whichever is greater
- Trigger Mode: Video trigger

NOTE 1: In case video triggering is not possible, an external trigger source may be used.

- Sweep Time: > 120 % of the duration of the longest burst detected during the measurement of the RF Output Power

Step 2 (segment 2 483,5 MHz to 2 483,5 MHz + BW):

- Adjust the trigger level to select the transmissions with the highest power level.
- For frequency hopping equipment operating in a normal hopping mode, the different hops will result in signal bursts with different power levels. In this case the burst with the highest power level shall be selected.
- Set a window (start and stop lines) to match with the start and end of the burst and in which the RMS power shall be measured using the Time Domain Power function.
- Select RMS power to be measured within the selected window and note the result which is the RMS power within this 1 MHz segment (2 483,5 MHz to 2 484,5 MHz). Compare this value with the applicable limit provided by the mask.
- Increase the centre frequency in steps of 1 MHz and repeat this measurement for every 1 MHz segment within the range 2 483,5 MHz to 2 483,5 MHz + BW. The centre frequency of the last 1 MHz segment shall be set to 2 483,5 MHz + BW - 0,5 MHz (which means this may partly overlap with the previous 1 MHz segment).

Step 3 (segment 2 483,5 MHz + BW to 2 483,5 MHz + 2BW):

- Change the centre frequency of the analyser to 2 484 MHz + BW and perform the measurement for the first 1 MHz segment within range 2 483,5 MHz + BW to 2 483,5 MHz + 2BW. Increase the centre frequency in 1 MHz steps and repeat the measurements to cover this whole range. The centre frequency of the last 1 MHz segment shall be set to 2 483,5 MHz + 2 BW - 0,5 MHz (which means this may partly overlap with the previous 1 MHz segment).

Step 4 (segment 2 400 MHz - BW to 2 400 MHz):

- Change the centre frequency of the analyser to 2 399,5 MHz and perform the measurement for the first 1 MHz segment within range 2 400 MHz - BW to 2 400 MHz. Reduce the centre frequency in 1 MHz steps and repeat the measurements to cover this whole range. The centre frequency of the last 1 MHz segment shall be set to 2 400 MHz - BW + 0,5 MHz (which means this may partly overlap with the previous 1 MHz segment).

Step 5 (segment 2 400 MHz - 2BW to 2 400 MHz - BW):

- Change the centre frequency of the analyser to 2 399,5 MHz - BW and perform the measurement for the first 1 MHz segment within range 2 400 MHz - 2BW to 2 400 MHz - BW. Reduce the centre frequency in 1 MHz steps and repeat the measurements to cover this whole range. The centre frequency of the last 1 MHz segment shall be set to 2 400 MHz - 2BW + 0,5 MHz (which means this may partly overlap with the previous 1 MHz segment).

Step 6:

- In case of conducted measurements on equipment with a single transmit chain, the declared antenna assembly gain "G" in dBi shall be added to the results for each of the 1 MHz segments and compared with the limits

provided by the mask given in figure 1 or figure 3. If more than one antenna assembly is intended for this power setting, the antenna with the highest gain shall be considered.

- In case of conducted measurements on smart antenna systems (equipment with multiple transmit chains), the measurements need to be repeated for each of the active transmit chains. The declared antenna assembly gain "G" in dBi for a single antenna shall be added to these results. If more than one antenna assembly is intended for this power setting, the antenna with the highest gain shall be considered. Comparison with the applicable limits shall be done using any of the options given below:

- Option 1: the results for each of the transmit chains for the corresponding 1 MHz segments shall be added. The additional beamforming gain "Y" in dB shall be added as well and the resulting values compared with the limits provided by the mask given in figure 1 or figure 3.

- Option 2: the limits provided by the mask given in figure 1 or figure 3 shall be reduced by $10 \times \log_{10}(A_{ch})$ and the additional beamforming gain "Y" in dB. The results for each of the transmit chains shall be individually compared with these reduced limits.

NOTE 2: A_{ch} refers to the number of active transmit chains.

It shall be recorded whether the equipment complies with the mask provided in figure 1 or figure 3.

10.4 Test Result

TEST CONDITIONS	IEEE 802.11b OUT-OF-BAND DOMAIN		
	Temp (Normal)	Temp (Low)°C	Temp (High)°C
CHANNEL	AC 230V	AC 230V	AC 230V
Low channel	PASS	PASS	PASS
High channel	PASS	PASS	PASS

TEST CONDITIONS	IEEE 802.11g OUT-OF-BAND DOMAIN		
	Temp (Normal)°C	Temp (Low)°C	Temp (High)°C
CHANNEL	AC 230V	AC 230V	AC 230V
Low channel	PASS	PASS	PASS
High channel	PASS	PASS	PASS

ANT1+ANT2:

TEST CONDITIONS	IEEE 802.11n(20) OUT-OF-BAND DOMAIN		
	Temp (Normal)°C	Temp (Low)°C	Temp (High)°C
CHANNEL	AC 230V	AC 230V	AC 230V
Low channel	PASS	PASS	PASS
High channel	PASS	PASS	PASS

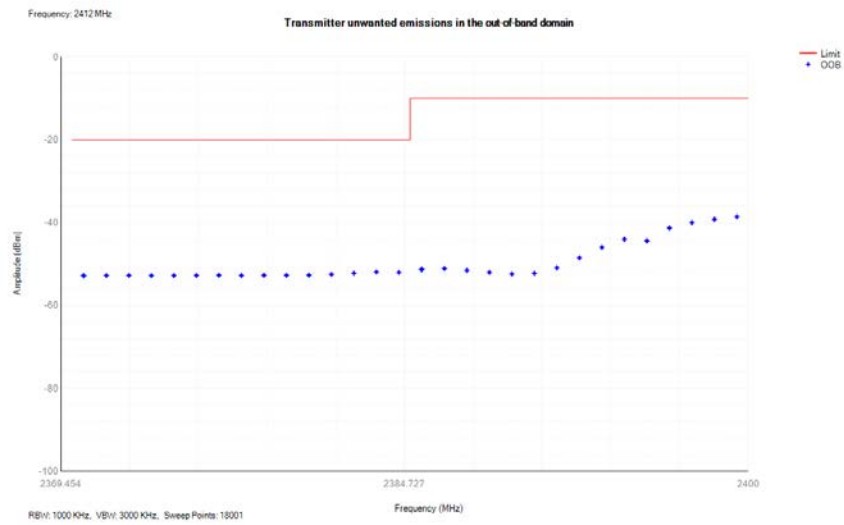
TEST CONDITIONS	IEEE 802.11n(40) OUT-OF-BAND DOMAIN		
	Temp (Normal)°C	Temp (Low)°C	Temp (High)°C
CHANNEL	AC 230V	AC 230V	AC 230V
Low channel	PASS	PASS	PASS
High channel	PASS	PASS	PASS

TEST CONDITIONS	IEEE 802.11ax(20) OUT-OF-BAND DOMAIN		
	Temp (Normal)°C	Temp (Low)°C	Temp (High)°C
CHANNEL	AC 230V	AC 230V	AC 230V
Low channel	PASS	PASS	PASS
High channel	PASS	PASS	PASS

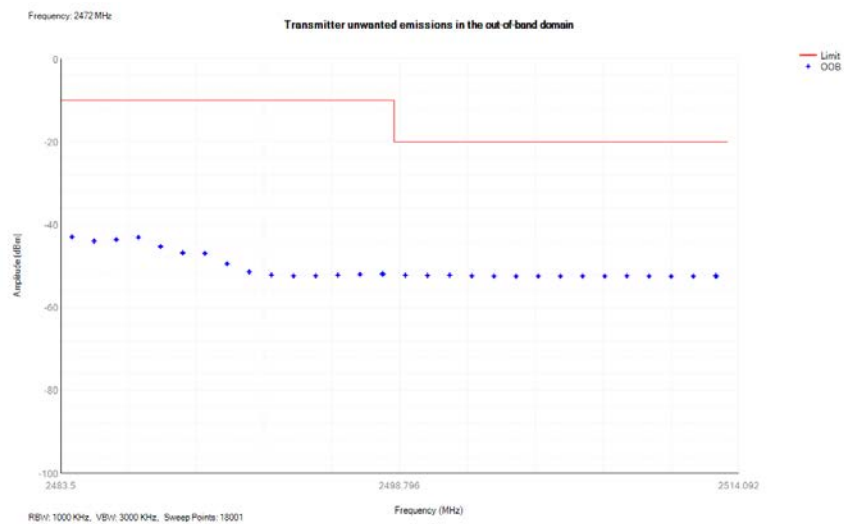
TEST CONDITIONS	IEEE 802.11ax(40) OUT-OF-BAND DOMAIN		
	Temp (Normal)°C	Temp (Low)°C	Temp (High)°C
CHANNEL	AC 230V	AC 230V	AC 230V
Low channel	PASS	PASS	PASS
High channel	PASS	PASS	PASS

ANT1:

CH Low-2412 (802.11b)

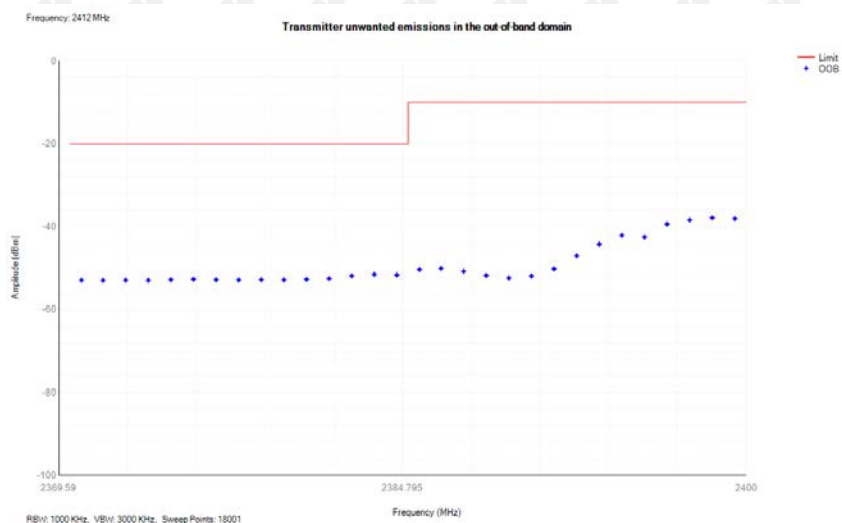


CH High-2472 (802.11b)

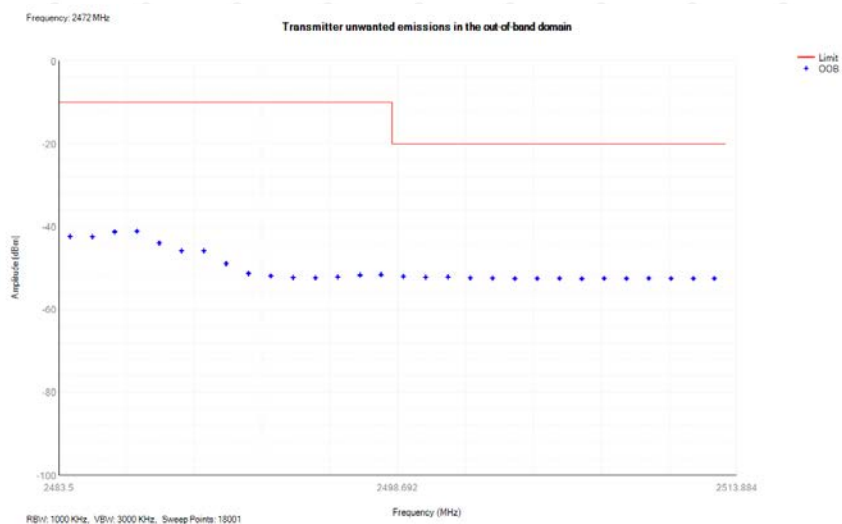


ANT2:

CH Low-2412 (802.11b)



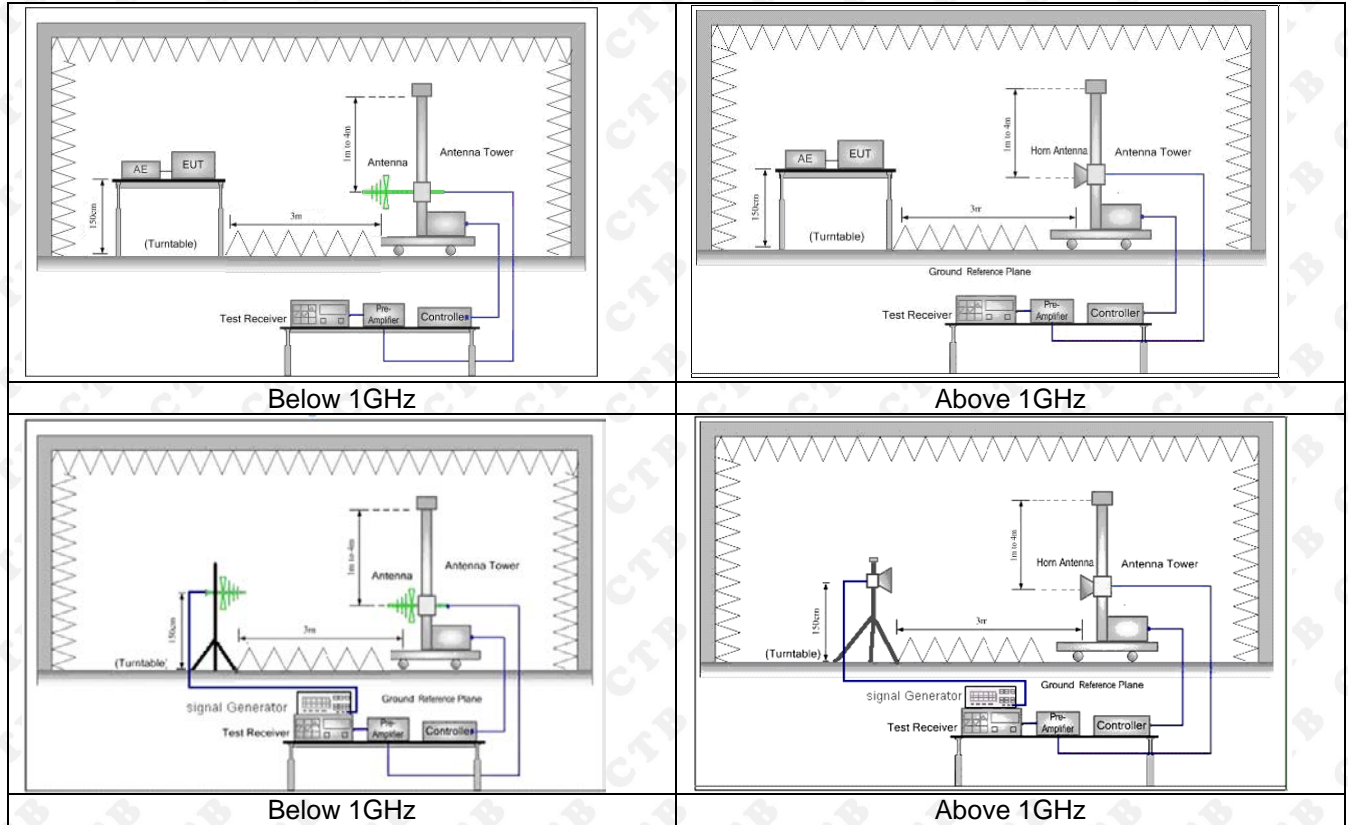
CH High-2472 (802.11b)



Note: All the modes had been tested, but only the worst data recorded in the report.
Condition: Normal

11. TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN

11.1 Block Diagram Of Test Setup



11.2 Limits

Frequency range	Maximum power, e.r.p. (≤ 1 GHz) e.i.r.p. (> 1 GHz)	RBW/VBW
30 MHz to 47 MHz	-36 dBm	100 kHz/300kHz
47 MHz to 74 MHz	-54 dBm	100 kHz/300kHz
74 MHz to 87,5 MHz	-36 dBm	100 kHz/300kHz
87,5 MHz to 118 MHz	-54 dBm	100 kHz/300kHz
118 MHz to 174 MHz	-36 dBm	100 kHz/300kHz
174 MHz to 230 MHz	-54 dBm	100 kHz/300kHz
230 MHz to 470 MHz	-36 dBm	100 kHz/300kHz
470 MHz to 694 MHz	-54 dBm	100 kHz/300kHz
694 MHz to 1 GHz	-36 dBm	100 kHz/300kHz
1 GHz to 12,75 GHz	-30 dBm	1 MHz/3MHz

11.3 Test Procedure

30MHz ~ 1GHz:

- a. The Product was placed on the nonconductive turntable 1.5m above the ground in a full anechoic chamber.
- b. Set the spectrum analyzer/receiver in Peak detector, Max Hold mode, and 120 kHz RBW. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied between 1~4 m in both horizontal and vertical, and the turntable is rotated from 0 to 360 degrees.
- c. For each frequency whose maximum record was higher or close to limit, measure its QP value: vary the antenna's height and rotate the turntable from 0 to 360 degrees to find the height and degree where Product radiated the maximum emission, then set the test frequency analyzer/receiver to QP Detector and specified bandwidth with Maximum Hold Mode, and record the maximum value.

Above 1GHz:

- a. The Product was placed on the non-conductive turntable 1.5 m above the ground in a full anechoic chamber..
- b. Set the spectrum analyzer/receiver in Peak detector, Max Hold mode, and 1MHz RBW. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied in both horizontal and vertical, and the turntable is rotated from 0 to 360 degrees.
- c. For each frequency whose maximum record was higher or close to limit, measure its AV value: rotate the turntable from 0 to 360 degrees to find the degree where Product radiated the maximum emission, then set the test frequency analyzer/receiver to AV value and specified bandwidth with Maximum Hold Mode, and record the maximum value.

11.4 Test Results

Modulation: 802.11n20 (Ant1+Ant2 the worst data)

Below 1GHz

Freq (MHz)	Rd_level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Over (dB)	detector	Height	Degree	Antenna polarization
Low Channel									
45.641	-54.91	-12.25	-67.16	-36.00	-31.16	peak	1.2	143	H
67.163	-54.72	-12.50	-67.21	-54.00	-13.21	peak	1.9	112	H
104.013	-56.26	-12.12	-68.39	-54.00	-14.39	peak	1.3	11	H
217.220	-53.21	-11.22	-64.43	-54.00	-10.43	peak	1.8	246	H
328.507	-53.37	-10.24	-63.61	-36.00	-27.61	peak	1.2	28	H
871.510	-52.52	-0.02	-52.54	-36.00	-16.54	peak	1.3	345	H
47.954	-55.33	-12.24	-67.57	-36.00	-31.57	peak	1.3	249	V
100.410	-54.56	-12.43	-67.00	-54.00	-13.00	peak	1.1	161	V
184.680	-55.43	-12.52	-67.96	-54.00	-13.96	peak	1.7	59	V
218.755	-53.56	-11.12	-64.67	-54.00	-10.67	peak	1.9	289	V
326.198	-53.04	-10.15	-63.19	-36.00	-27.19	peak	1.3	301	V
871.968	-51.89	-0.29	-52.18	-36.00	-16.18	peak	1.8	272	V
High Channel									
45.903	-55.25	-12.29	-67.54	-36.00	-31.54	peak	1.8	337	H
66.407	-55.11	-12.56	-67.67	-54.00	-13.67	peak	1.7	51	H
105.051	-56.10	-11.70	-67.80	-54.00	-13.80	peak	1.3	335	H
217.637	-53.38	-10.53	-63.92	-54.00	-9.92	peak	1.1	152	H
325.762	-52.77	-9.65	-62.41	-36.00	-26.41	peak	1.7	342	H
869.619	-52.62	-0.04	-52.66	-36.00	-16.66	peak	1.7	145	H
46.573	-55.32	-12.25	-67.57	-36.00	-31.57	peak	1.2	67	V
102.452	-55.13	-11.96	-67.09	-54.00	-13.09	peak	1.7	217	V
183.243	-55.63	-12.12	-67.75	-54.00	-13.75	peak	1.4	217	V
219.535	-53.47	-11.04	-64.51	-54.00	-10.51	peak	1.1	36	V
328.049	-53.09	-9.63	-62.73	-36.00	-26.73	peak	1.4	18	V
870.008	-52.19	-0.28	-52.47	-36.00	-16.47	peak	1.8	241	V

Remark:

Absolute Level = Receiver Reading + Factor

Factor = Antenna Factor + Cable Loss – Pre-amplifier

Above 1GHz

above 1GHz

Freq	Rd_level	Factor	Level	Limit	Over	detector	Height	Degree	Antenna polarization
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)				
Low Channel									
4824	-54.72	8.43	-46.29	-30.00	-16.29	peak	1.3	216	H
7236	-52.33	12.45	-39.88	-30.00	-9.88	peak	1.5	301	H
4824	-54.66	8.43	-46.23	-30.00	-16.23	peak	1.4	237	H
7236	-51.60	12.45	-39.15	-30.00	-9.15	peak	1.3	278	H
High Channel									
4944	-54.90	8.53	-46.37	-30.00	-16.37	peak	1.5	299	V
7416	-53.04	12.59	-40.45	-30.00	-10.45	peak	1.4	25	V
4944	-54.17	8.53	-45.64	-30.00	-15.64	peak	1.6	159	V
7416	-51.93	12.59	-39.34	-30.00	-9.34	peak	1.3	127	V

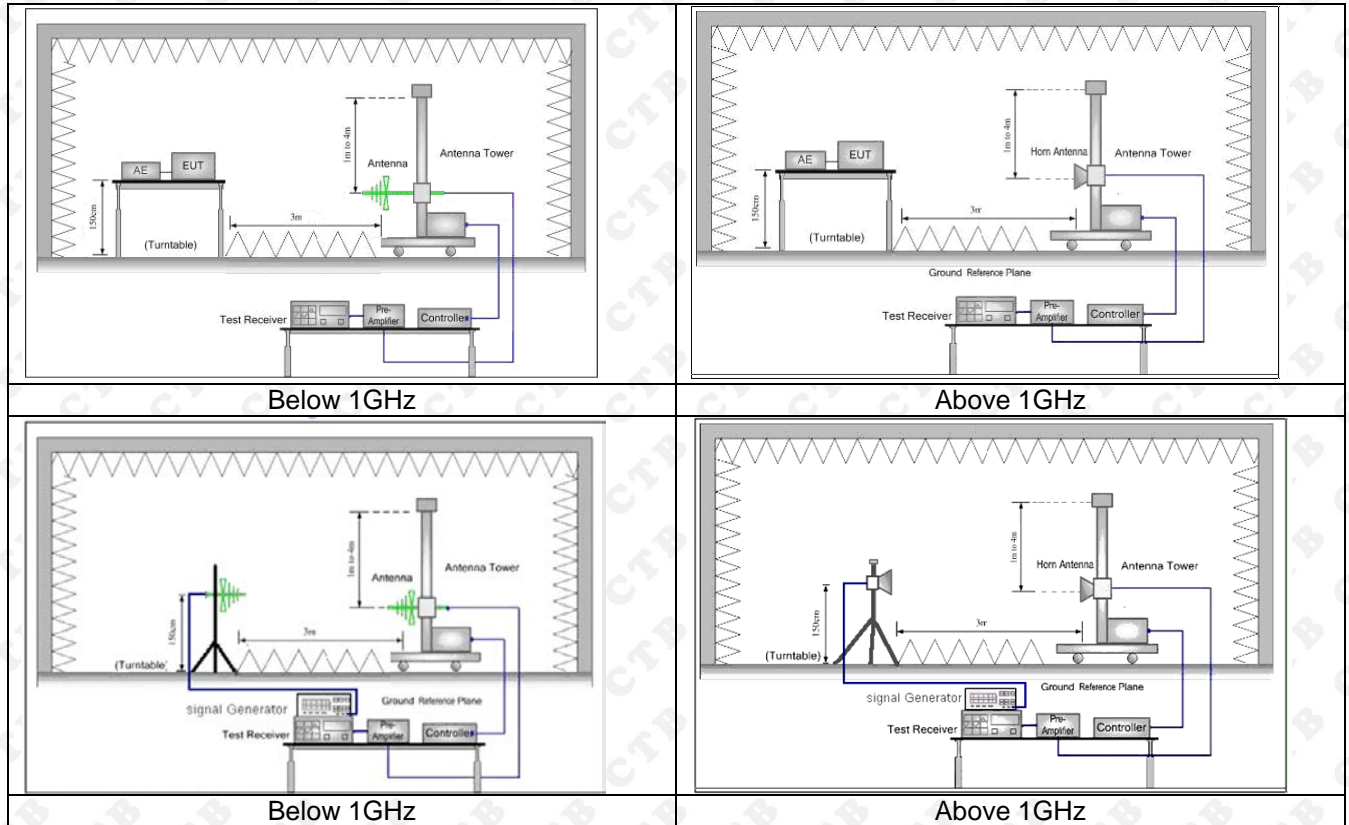
Remark:

Absolute Level = Receiver Reading + Factor

Factor = Antenna Factor + Cable Loss – Pre-amplifier

12. RECEIVER SPURIOUS EMISSIONS

12.1 Block Diagram Of Test Setup



12.2 Limits

Frequency(MHz)	Limit
30-1000	-57dBm
1000-12750	-47dBm

12.3 Test Procedure

30MHz ~ 1GHz:

- The Product was placed on the nonconductive turntable 1.5m above the ground in a full anechoic chamber.
- Set the spectrum analyzer/receiver in Peak detector, Max Hold mode, and 120 kHz RBW. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied between 1~4 m in both horizontal and vertical, and the turntable is rotated from 0 to 360 degrees.
- For each frequency whose maximum record was higher or close to limit, measure its QP value: vary the antenna's height and rotate the turntable from 0 to 360 degrees to find the height and degree where Product radiated the maximum emission, then set the test frequency analyzer/receiver to QP Detector and specified bandwidth with Maximum Hold Mode, and record the maximum value.

Above 1GHz:

- The Product was placed on the non-conductive turntable 1.5 m above the ground in a full anechoic chamber..

- b. Set the spectrum analyzer/receiver in Peak detector, Max Hold mode, and 1MHz RBW. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied in both horizontal and vertical, and the turntable is rotated from 0 to 360 degrees.
- c. For each frequency whose maximum record was higher or close to limit, measure its AV value: rotate the turntable from 0 to 360 degrees to find the degree where Product radiated the maximum emission, then set the test frequency analyzer/receiver to AV value and specified bandwidth with Maximum Hold Mode, and record the maximum value.

12.4 Test Results

Modulation: 802.11n20 (Ant1+Ant2 the worst data)

Below 1GHz

Freq (MHz)	Rd_level (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Over (dB)	detector	Height	Degree	Antenna polarization
Low Channel									
44.792	-60.44	-12.18	-72.61	-57.00	-15.61	peak	1.2	155	H
66.955	-60.12	-12.43	-72.55	-57.00	-15.55	peak	1.4	352	H
105.192	-60.70	-12.42	-73.12	-57.00	-16.12	peak	1.4	116	H
217.206	-62.60	-10.99	-73.58	-57.00	-16.58	peak	1.2	67	H
327.554	-61.85	-9.75	-71.59	-57.00	-14.59	peak	1.3	359	H
869.668	-69.06	0.21	-68.85	-57.00	-11.85	peak	1.1	138	H
46.195	-60.58	-12.16	-72.74	-57.00	-15.74	peak	1.9	11	V
100.751	-61.28	-12.65	-73.93	-57.00	-16.93	peak	1.4	293	V
184.844	-62.22	-12.01	-74.22	-57.00	-17.22	peak	1.6	340	V
218.698	-60.75	-10.82	-71.57	-57.00	-14.57	peak	1.5	323	V
328.160	-59.23	-9.67	-68.90	-57.00	-11.90	peak	1.8	280	V
870.019	-70.14	-0.42	-70.57	-57.00	-13.57	peak	1.6	218	V
High Channel									
44.806	-60.80	-12.35	-73.14	-57.00	-16.14	peak	1.7	20	H
67.772	-60.89	-12.07	-72.96	-57.00	-15.96	peak	1.8	87	H
106.394	-60.42	-12.13	-72.55	-57.00	-15.55	peak	1.5	287	H
216.906	-62.17	-10.70	-72.87	-57.00	-15.87	peak	1.5	164	H
325.883	-61.72	-10.18	-71.90	-57.00	-14.90	peak	1.2	269	H
871.418	-68.97	-0.03	-69.01	-57.00	-12.01	peak	1.9	57	H
48.591	-60.87	-12.40	-73.27	-57.00	-16.27	peak	1.8	235	V
100.904	-61.46	-12.59	-74.06	-57.00	-17.06	peak	1.2	112	V
183.922	-62.25	-12.38	-74.63	-57.00	-17.63	peak	1.5	147	V
216.810	-61.26	-10.61	-71.87	-57.00	-14.87	peak	1.5	235	V
326.853	-59.83	-10.27	-70.11	-57.00	-13.11	peak	1.8	46	V
871.135	-69.69	-0.17	-69.87	-57.00	-12.87	peak	1.9	229	V

Remark:

Absolute Level = Receiver Reading + Factor

Factor = Antenna Factor + Cable Loss – Pre-amplifier

Above 1GHz

above 101.1

Freq	Rd_level	Factor	Level	Limit	Over	detector	Height	Degree	Antenna polarization
(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)				
Low Channel									
2248.52	-61.28	3.12	-58.16	-47.00	-11.16	peak	1.8	219	H
2248.76	-60.14	3.12	-57.02	-47.00	-10.02	peak	1.5	303	V
High Channel									
2443.35	-59.76	3.52	-56.24	-47.00	-9.24	peak	1.4	155	H
2443.72	-62.38	3.56	-58.82	-47.00	-11.82	peak	1.3	358	V

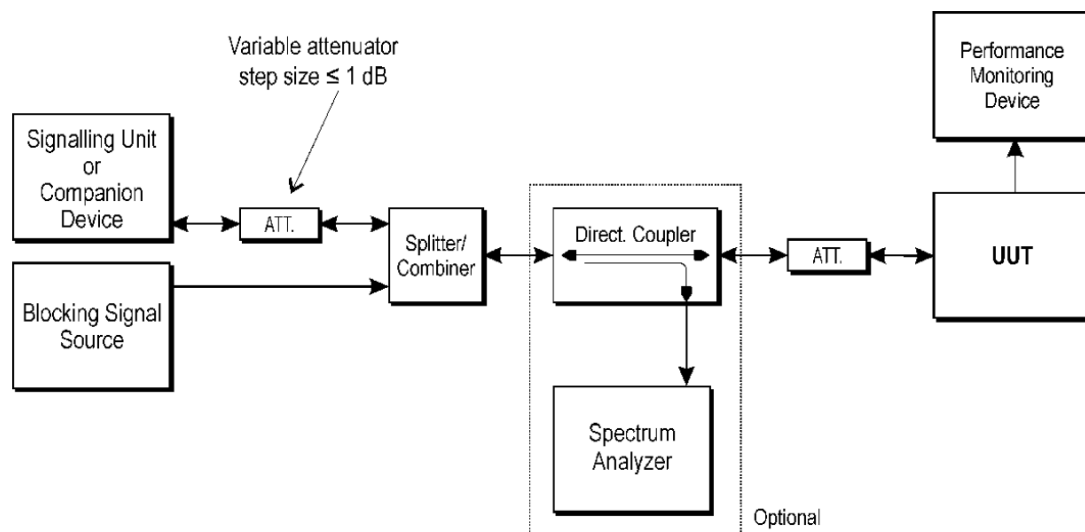
Remark:

Absolute Level = Receiver Reading + Factor

Factor = Antenna Factor + Cable Loss – Pre-amplifier

13. RECEIVER BLOCKING

13.1 Block Diagram Of Test Setup



13.2 Limit

Table 14: Receiver Blocking parameters for Receiver Category 1 equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 4)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 4)	Type of blocking signal
$(-133 \text{ dBm} + 10 \times \log_{10}(\text{OCBW}))$ or -68 dBm whichever is less (see note 2)	2 380 2 504	-34	CW
$(-139 \text{ dBm} + 10 \times \log_{10}(\text{OCBW}))$ or -74 dBm whichever is less (see note 3)	2 300 2 330 2 360 2 524 2 584 2 674		

NOTE 1: OCBW is in Hz.

NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to $P_{\min} + 26 \text{ dB}$ where P_{\min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 3: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to $P_{\min} + 20 \text{ dB}$ where P_{\min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 4: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.

Table 15: Receiver Blocking parameters receiver Category 2 equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 3)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 3)	Type of blocking signal
$(-139 \text{ dBm} + 10 \times \log_{10}(\text{OCBW}) + 10 \text{ dB})$ or $(-74 \text{ dBm} + 10 \text{ dB})$ whichever is less (see note 2)	2 380 2 504 2 300 2 584	-34	CW
<p>NOTE 1: OCBW is in Hz.</p> <p>NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to $P_{\min} + 26 \text{ dB}$ where P_{\min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.</p> <p>NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.</p>			

Table 16: Receiver Blocking parameters receiver Category 3 equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 3)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 3)	Type of blocking signal
$(-139 \text{ dBm} + 10 \times \log_{10}(\text{OCBW}) + 20 \text{ dB})$ or $(-74 \text{ dBm} + 20 \text{ dB})$ whichever is less (see note 2)	2 380 2 504 2 300 2 584	-34	CW
<p>NOTE 1: OCBW is in Hz.</p> <p>NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to $P_{\min} + 30 \text{ dB}$ where P_{\min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.</p> <p>NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.</p>			

13.3 Test procedure

Refer to ETSI EN 300 328 V2.2.2 (2020-07) Clause 5.4.11.2.

13.4 Test Result

Modulation: 802.11n20 (Ant1 the worst data)

Receiver Category 2					
Transmitting	P _{min} (dBm)	Blocking Frequency(MHz)	Blocking Power(dB)	Measured PER(%)	Limit (%)
2402	-64	2380	-31.3	0.57	10
2402	-64	2504	-31.3	0.51	10
2402	-64	2300	-31.3	0.51	10
2402	-64	2584	-31.3	0.19	10
2480	-64	2380	-31.3	0.45	10
2480	-64	2504	-31.3	0.38	10
2480	-64	2300	-31.3	0.49	10
2480	-64	2584	-31.3	0.69	10
Note: This report only shows the worst case test data.					

Modulation: 802.11b (Ant2 the worst data)

Receiver Category 2					
Transmitting	P _{min} (dBm)	Blocking Frequency(MHz)	Blocking Power(dB)	Measured PER(%)	Limit (%)
2402	-64	2380	-31.3	0.46	10
2402	-64	2504	-31.3	0.42	10
2402	-64	2300	-31.3	0.14	10
2402	-64	2584	-31.3	0.25	10
2480	-64	2380	-31.3	0.57	10
2480	-64	2504	-31.3	0.23	10
2480	-64	2300	-31.3	0.35	10
2480	-64	2584	-31.3	0.32	10
Note: This report only shows the worst case test data.					

14. EUT PHOTOGRAPHS

Refer to Report No.: CTB25072104004RE03 for EUT external and internal photos.

15. EUT TEST SETUP PHOTOGRAPHS

Spurious emission

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