

FCC - TEST REPORT

Report Number	:	68.930.20.0020.01	Date of Issue:	August 16, 2020	
Model	<u>:</u>	GBF-1717-W			
Product Type	<u>:</u>	Body Fat Analyzer			
Applicant	<u>:</u>	Zhongshan Transtek Electror	nics Co., Ltd		
Address	<u>:</u>	No.23 Jin'an Road, Minzhong	g, 528441 Zhong	shan, Guangdong,	
		PEOPLE'S REPUBLIC OF C	HINA		
Manufacturer&Factory	<u>:</u>	Zhongshan Transtek Electror	nics Co., Ltd		
Address	: No.23 Jin'an Road, Minzhong, 528441 Zhongshan, Guangdong,				
		PEOPLE'S REPUBLIC OF C	HINA		
Factory	:	Zhongshan Transtek Electror	nics Co., Ltd		
Address	:	No.23 Jin'an Road, Minzho	ong, 528441 Zh	ongshan, Guangdong,	
		PEOPLE'S REPUBLIC OF	CHINA		

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■ Negative

■ Positive

89

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Test Result

Appendices

Total pages including



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2 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch

Building 12&13, Zhiheng Wisdomland Business Park,

Nantou Checkpoint Road 2, Nanshan District,

Shenzhen City, 518052,

P. R. China

FCC Registration

502708

Number:

Telephone: 86 755 8828 6998 Fax: 86 755 8828 5299



3 Description of the Equipment Under Test

Description of the Equipment Under Test

Product: Body Fat Analyzer

Model no .: **GBF-1717-W**

Brand Name: N/A

FCC ID: 2AOJNGBF-1717-W

DC 6V (4*1.5 AAA battery) Rating:

RF Transmission 5.150GHz~5.250GHz; 5.250GHz~5.350GHz; Frequency: 5.725GHz~5.850GHz

Modulation: 802.11n-HT20: BPSK, QPSK, 16QAM, 64QAM

802.11n-HT40: BPSK, QPSK, 16QAM, 64QAM

Antenna Type: Integral Antenna

Antenna Gain: 1.5dBi

Description of the EUT: The Equipment Under Test (EUT) is a Body Fat Analyzer which support 2.4G

> Wi-Fi, 5G Wi-Fi and BLE function. The 2.4G Wi-Fi, BLE operated at 2402MHz to 2480MHz, The 5G Wi-Fi operation 5150MHz to 5250MHz, 5250MHz to

5350MHz and 5725MHz to 5850MHz.

Only 5G Wi-Fi test data include in this report.



4 Summary of Test Standards

Test Standards				
FCC Part 15 Subpart E	PART 15 - RADIO FREQUENCY DEVICES			
10-1-2019 Edition	Subpart E - Unlicensed National Information Infrastructure Devices			
FCC Part 15 Subpart C	PART 15 - RADIO FREQUENCY DEVICES			
10-1-2019 Edition	Subpart C - Intentional Radiators			

Test Method:

KDB 789033 D02 General UNII Test Procedures New Rules v02r01f KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 ANSI C63.10-2013, American National Slave standard for Testing Unlicensed Wireless Devices



5 Summary of Test Results

Technical Requirements						
FCC Part 15 Subpart E, FCC Part 15 Subpart C						
Test Condition		Γest Resu	ılt			
	Pass	Fail	N/A			
15.207			\boxtimes			
Conducted Emission AC Power Port						
15.407(e)						
Emission bandwidth						
15.407(a)(i)						
Maximum Conducted Output Power						
15.407(a)(i)						
Maximum Power Spectral Density						
15.407(b)(1), 15.407(b)(2), 15.407(b)(3), 15.407(b)(5),						
15.407(b)(4), 15.407(b)(6) 15.407(b)(7) 15.209						
Unwanted Emissions						
15.407(g)						
Frequencies Slavebility						
15.407(h)						
Dynamic Frequency Selection (DFS).						
15.203						
Antenna Requirement	See note 2					

Note 1: N/A=Not Applicable.

Note 2: The antenna is a PCB antenna with 1.5dB antenna gain. It is considered sufficiently to comply with the provisions of this section.



6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: 2AOJNGBF-1717-W, complies with Section FCC Part 15 Subpart C Rules, FCC Part 15 Subpart E Rules.

The Equipment Under Test (EUT) is a Body Fat Analyzer which support 2.4G Wi-Fi, 5G Wi-Fi and BLE function. The 2.4G Wi-Fi, BLE operated at 2400MHz to 2483.5MHz, The 5G Wi-Fi operation 5150MHz to 5250MHz, 5250MHz to 5350MHz and 5725MHz to 5850MHz.

This report is for the 5GHz Wi-Fi.

SUMMARY:

All tests according to the regulations cited on page 5 were

- - Performed
- □ Not Performed

The Equipment Under Test

- - Fulfills the general approval requirements.
- ☐ **Does not** fulfill the general approval requirements.

Sample Received Date: June 30, 2020

Testing Start Date: July 26, 2020

Testing End Date: July 30, 2020

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch –

Reviewed by:

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Grace Gao EMC Project Engineer Tested by:

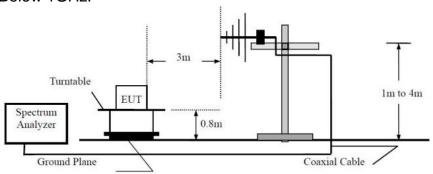
Louise Liu EMC Test Engineer



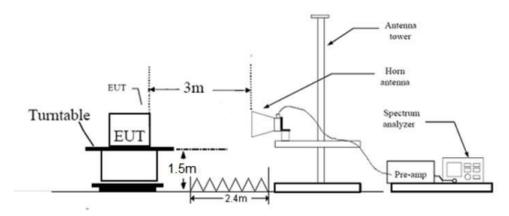
7 Test setups

7.1 Radiated test setups

Below 1GHz:



Above 1GHz



7.2 Conducted RF test setups





8. Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
Netobook	Lenovo	E470c	

The system was configured to channel:

Test Mode	Channel (MHz)						
802.11n HT20		5G WIFI-Band 1					
	CH36 (5180MHz)	CH40 (5200MHz)	CH48 (5240MHz)				
	5G WIFI-Band 2						
	CH52 (5260MHz)	CH56 (5280MHz)	CH64 (5320MHz)				
	5G WIFI-Band 3						
	CH149 (5745MHz),	CH157(5785MHz)	CH165 (5825MHz)				

Test Mode	Channel (MHz)				
802.11n HT40		5G WIFI-Band 1			
	CH38(5190MHz) CH46 (5230MHz)				
	5G WIFI-Band 2				
	CH54(5270MHz) CH62(5310MHz)				
	5G WIFI-Band 3				
	CH151(5755MHz) CH159(5795MHz)				



9 Technical Requirement

9.1 Emission bandwidth

1. Test Method of 26dB Bandwidth

According to KDB789033 D02

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

Limit: No limit

2. Test Method of 6dB Bandwidth

According to KDB789033 D02

- a) Set RBW = 100KHz
- b) Set the video bandwidth (VBW) ≥ 3 × RBW
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Limit: ≥500KHz

3. Test Method of 99% Bandwidth

According to KDB789033 D02

- a) Set center frequency to the nominal EUT channel center frequency
- b) Set span = 1.5 times to 5.0 times the OBW.
- c) Set RBW = 1 % to 5 % of the OBW
- d) Set VBW ≥ 3 · RBW
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99 % power bandwidth function of the instrument (if available).
- g) If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

Limit: No limit



Test result as below table:

IEEE 802.11n-HT20 modulation Test Result

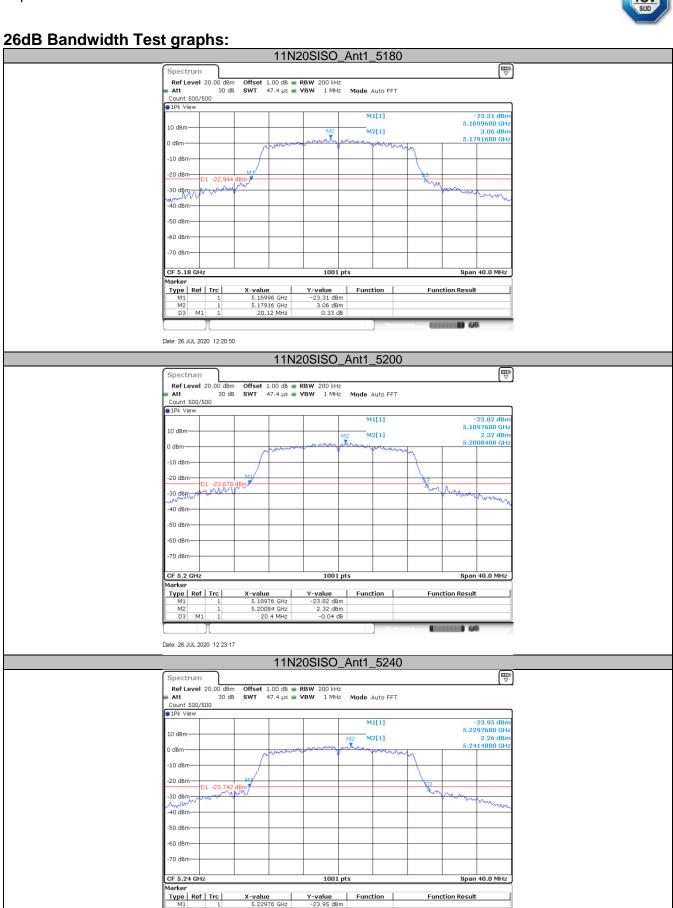
Band	Channel	Channel Frequency (MHz)	Measured 99% Bandwidth (MHz)	Measured 26dB Bandwidth (MHz)	Measured 6dB Bandwidth (MHz)
	Low	5180	18.062	20.120	N/A
5.2G Band	Mid	5200	18.222	20.400	N/A
	High	5240	18.142	20.720	N/A
	Low	5260	18.222	20.280	N/A
5.3G Band	Mid	5280	18.262	20.240	N/A
	High	5320	18.222	20.480	N/A
	Low	5745	18.142	20.560	17.120
5.8G Band	Mid	5785	18.182	20.160	17.640
	High	5825	18.142	20.680	17.640

IEEE 802.11n-HT40 modulation Test Result

Band	Channel	Channel Frequency (MHz)	Measured 99% Bandwidth (MHz)	Measured 26dB Bandwidth (MHz)	Measured 6dB Bandwidth (MHz)
5.2C Rand	Low	5190	36.523	41.280	N/A
5.2G Band	High	5230	36.444	40.880	N/A
5.3G Band	Low	5270	36.523	42.640	N/A
5.3G Band	High	5310	36.444	40.800	N/A
5 OC Bond	Low	5755	36.523	40.960	35.920
5.8G Band	High	5795	36.603	41.200	36.240

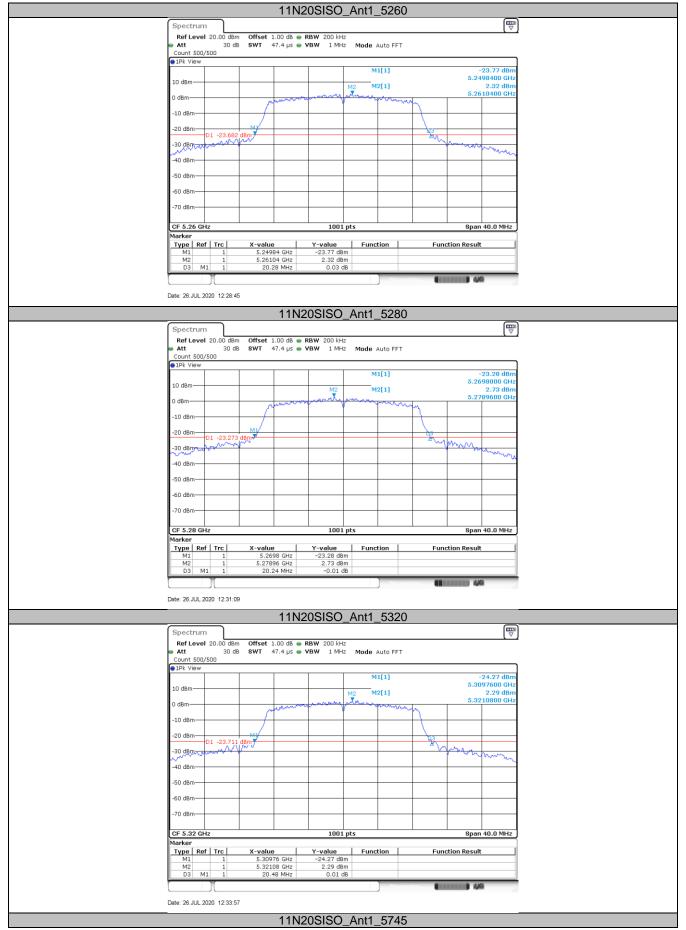
Remark: "N/A" means "Not Applicable"



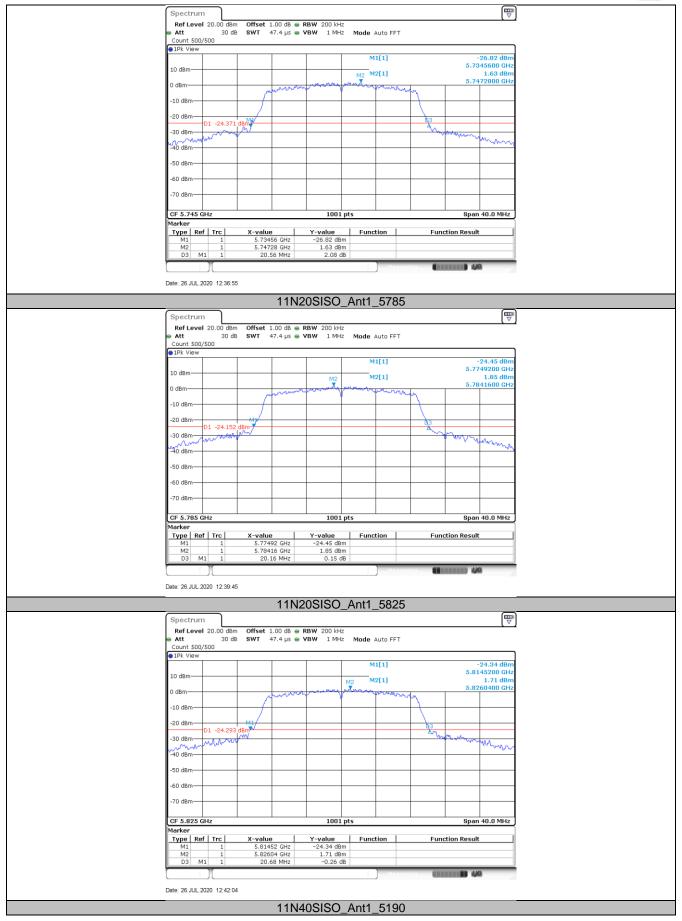


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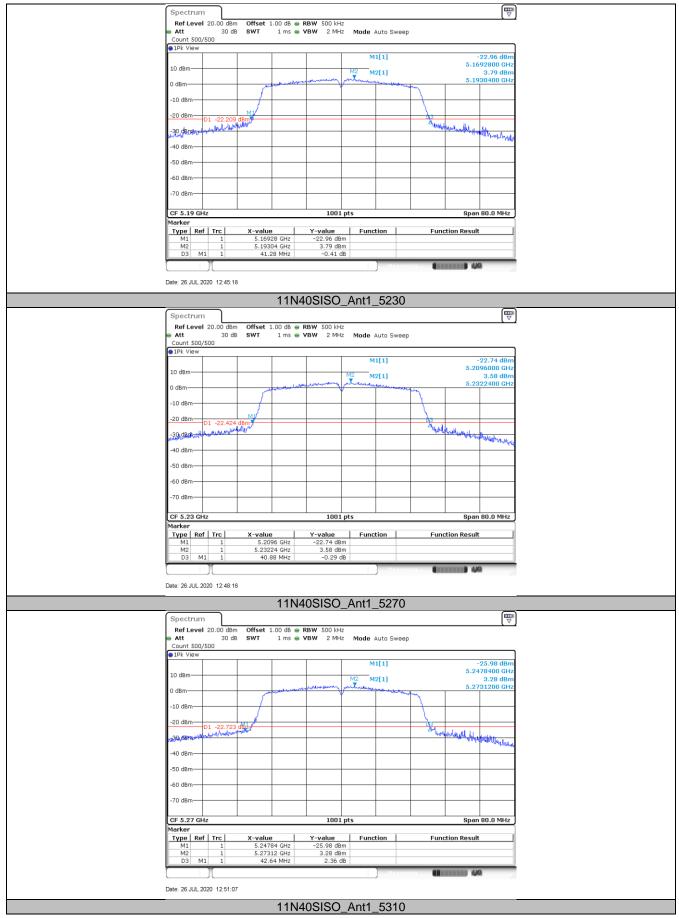




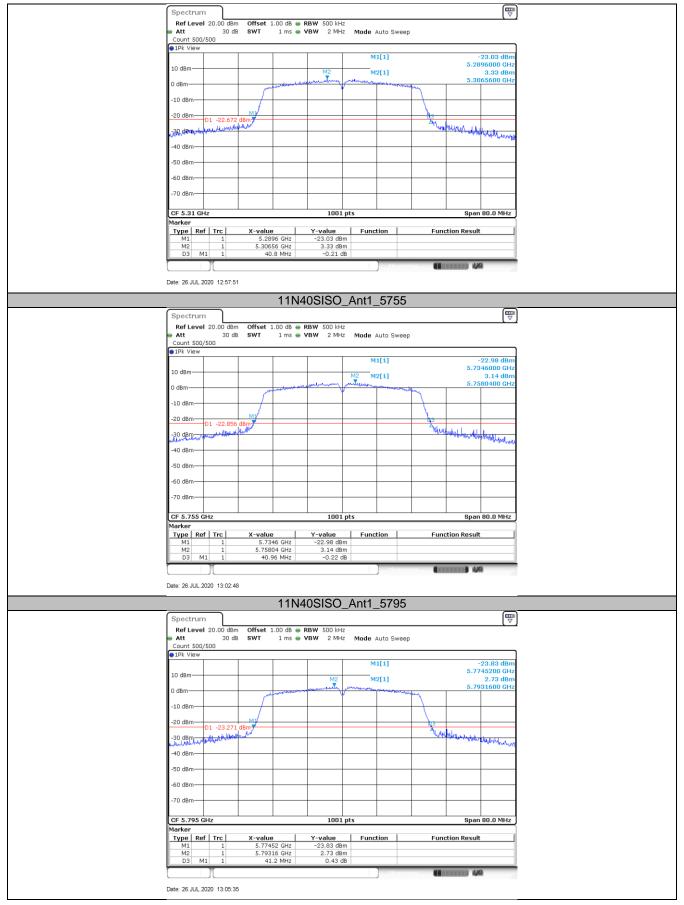




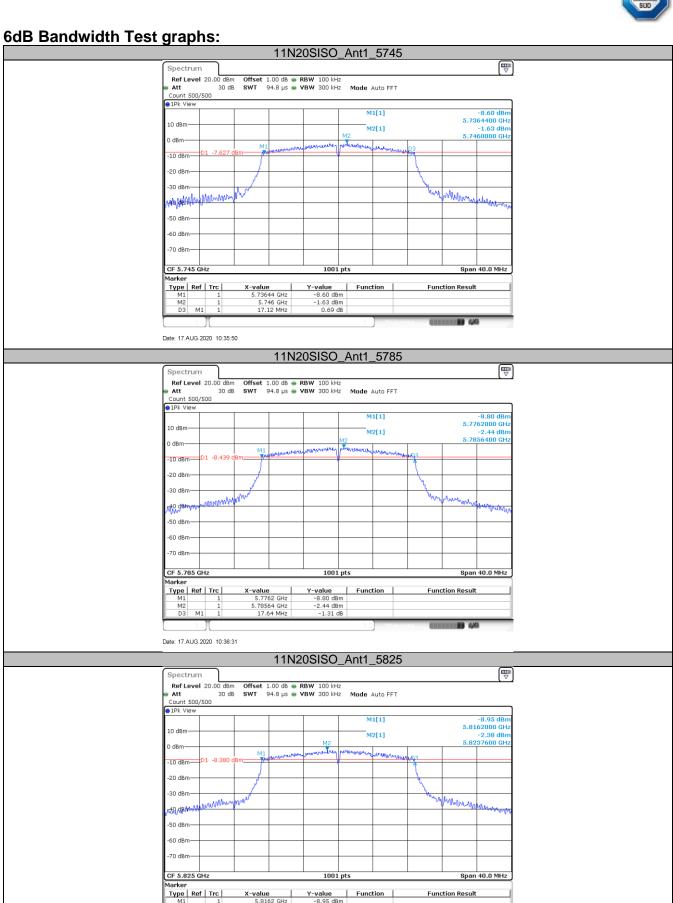






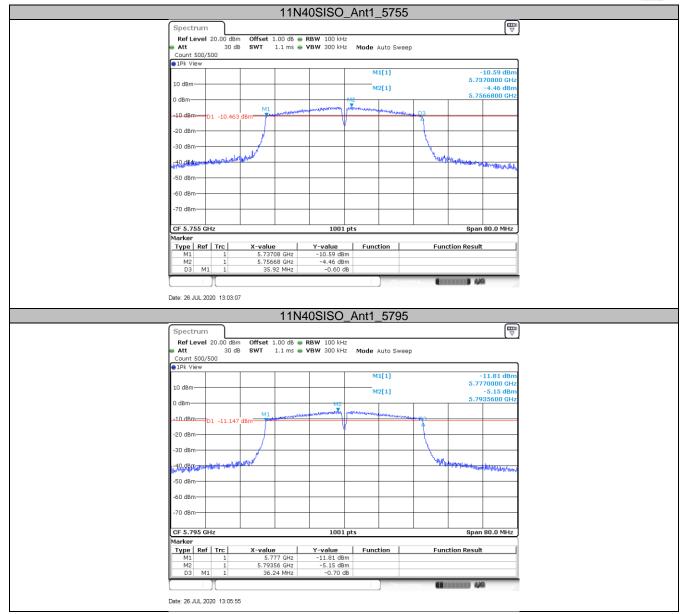




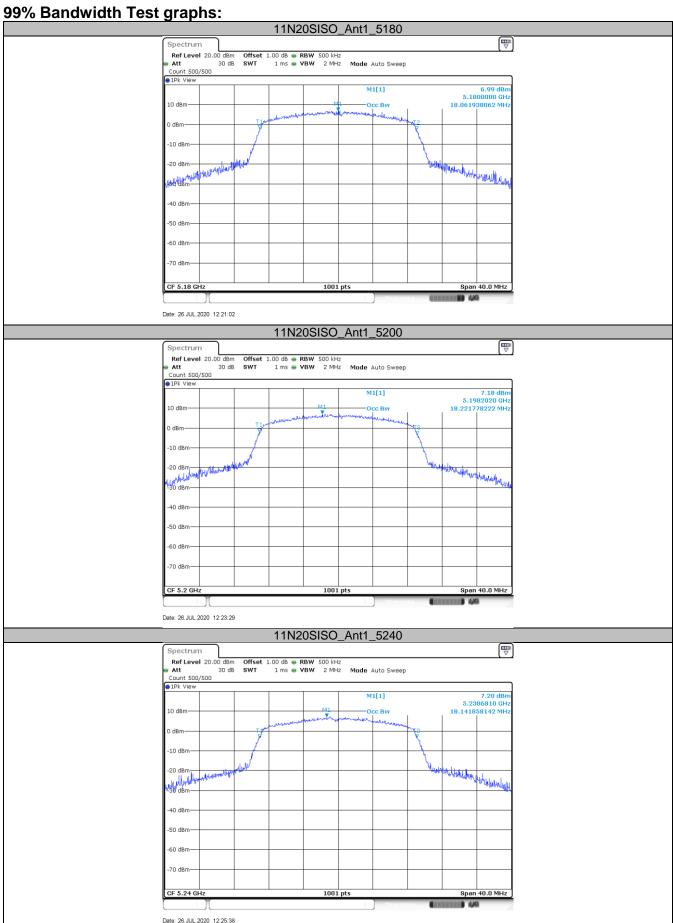


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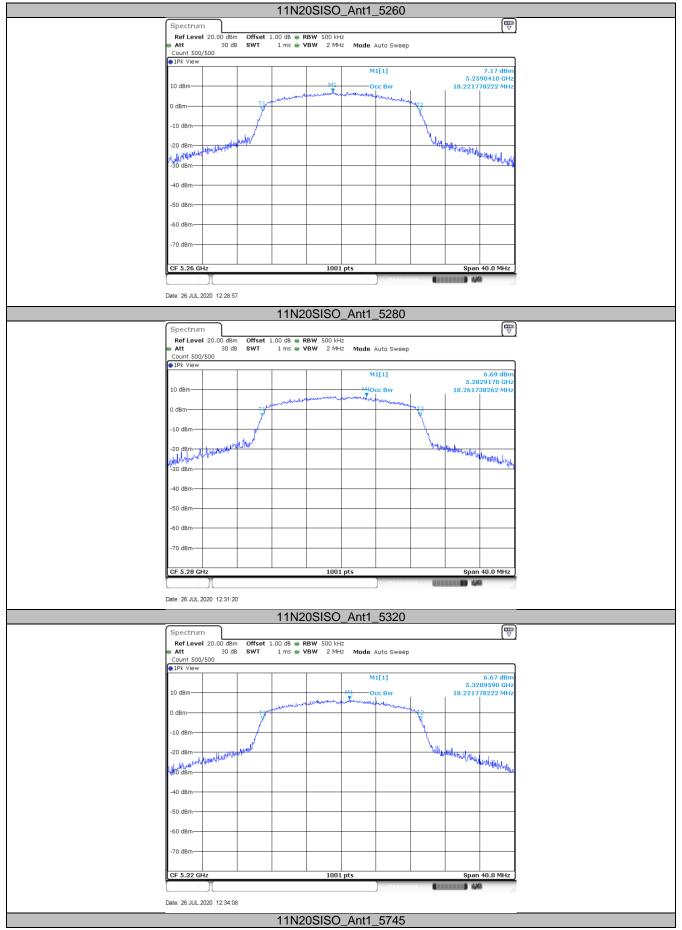




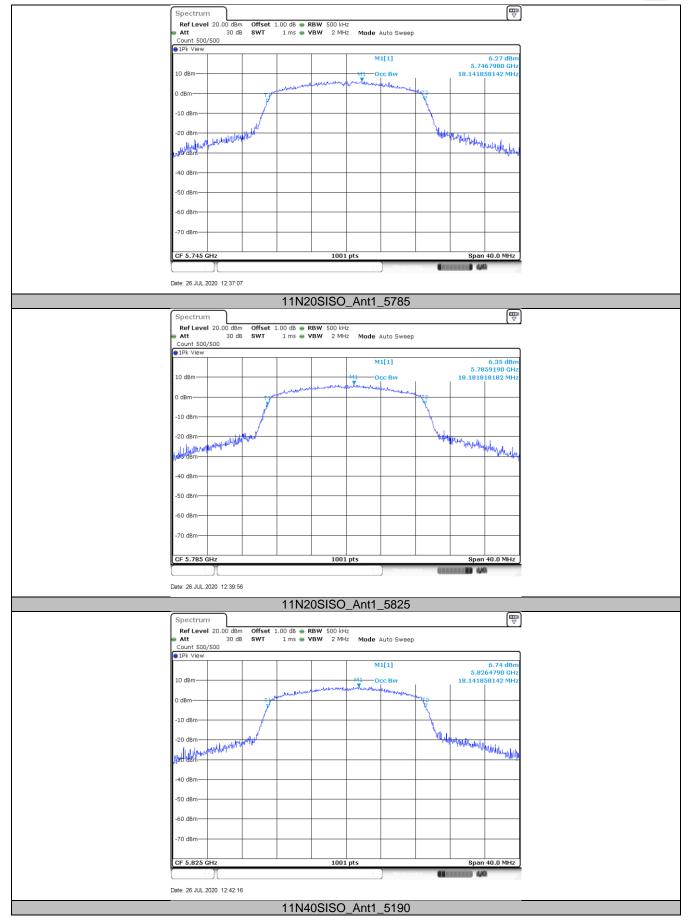




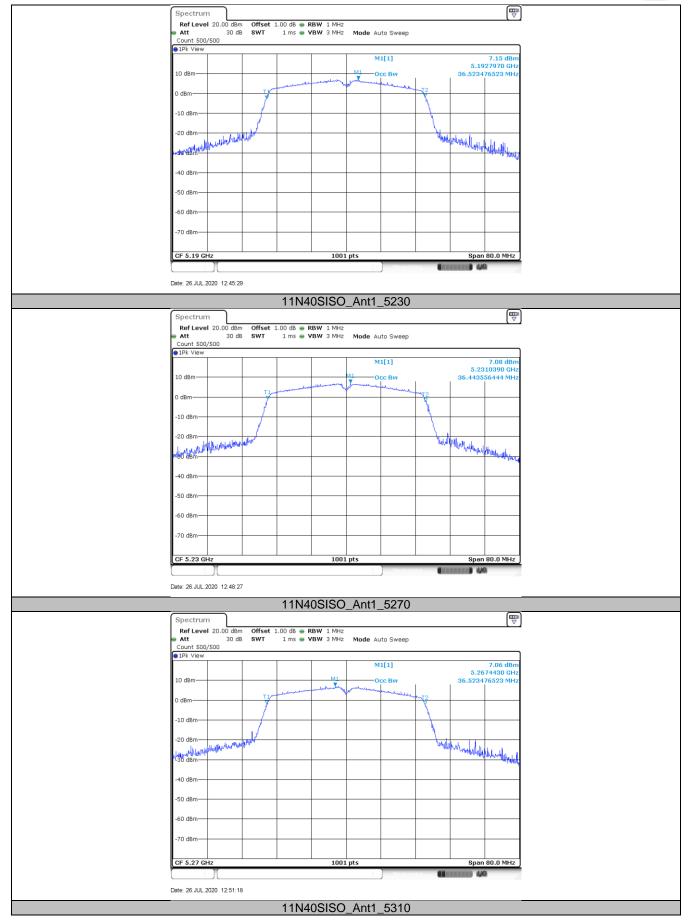




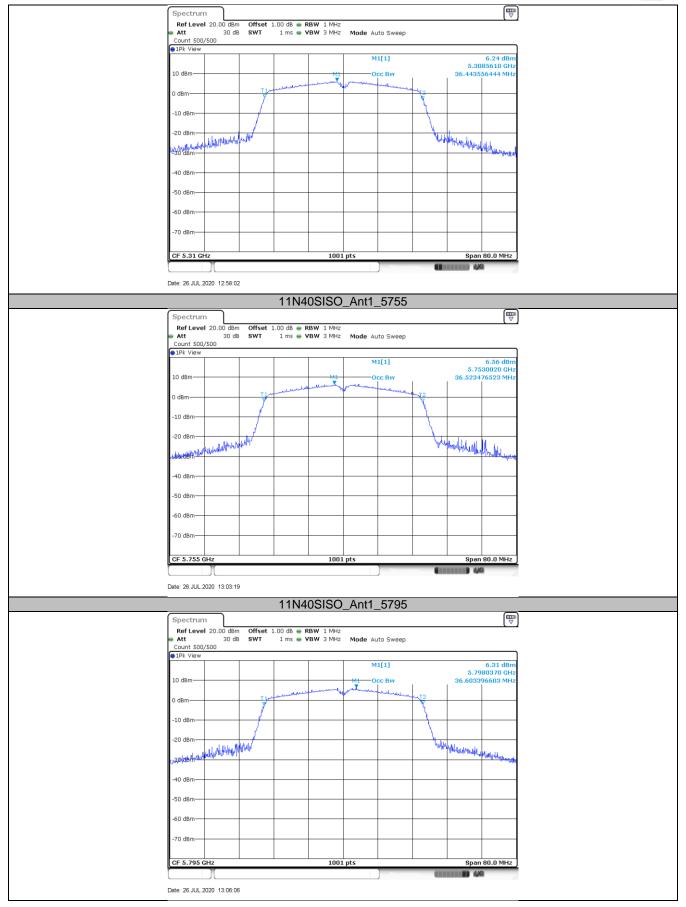














9.2 Maximum conducted output power

Test Method

According to KDB789033 D02

(1) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:

The EUT is configured to transmit continuously or to transmit with a conSlavent duty cycle. At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.

The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.

- (2) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in II.B.
- (3) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
- (4) Adjust the measurement in dBm by adding 10 log (1/x) where x is the duty cycle (e.g., 10 log (1/0.25) if the duty cycle is 25%).

Limits:

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi.

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 26dB emission bandwidth in megahertz.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

Note:

Maximum Conducted Output Power=Conducted Output Power + Correction Factor

Test result as below table



IEEE 802.11n-HT20 modulation Test Result

Band	Channel	Frequency (MHz)	Conducted power (dBm)	Power Limit (dBm)
	Low	5180	13.20	24.00
5.2G Band	Middle	5200	15.10	24.00
	High	5240	13.90	24.00
	Low	5260	13.80	24.00
5.3G Band	Middle	5280	15.50	24.00
	High	5320	13.60	24.00
	Low	5745	13.80	30.00
5.8G Band	Middle	5785	13.80	30.00
	High	5825	14.00	30.00

IEEE 802.11n-HT40 modulation Test Result

Band	Channel	Frequency (MHz)	Conducted power (dBm)	Power Limit (dBm)
F OC Bond	Low	5190	14.60	24.00
5.2G Band	High	5230	13.40	24.00
5.3G Band	Low	5270	14.10	24.00
	High	5310	13.30	24.00
5.8G Band	Low	5755	12.70	30.00
5.6G Banu	High	5795	13.50	30.00



9.3 Maximum power spectral density

Test Method

According to KDB789033 D02

For devices operating in the bands 5.15-5.25 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth

specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or bandwidth" to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

- a) Set RBW \geq 1/T, where T is defined in section II.B.I.a).
- b) Set VBW ≥ 3 RBW.
- c) 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.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add 10log(1MHz/RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections 5.c) and 5.d) above, since RBW=100 KHZ is available on nearly all spectrum analyzers.

Limit: The maximum power spectral density shall not exceed 11dBm for the 5.15-5.25GHz, 5.25-5.35GHz, 5.47-5.725 GHz Band and 30dBm for the 5.8GHz Band in any 1 megahertz band.



TestMode	Antenna	Channel(MHz)	Result(dBm/MHz)	Limit(dBm/MHz)	Verdict
		5180	6.71	<=11	PASS
		5200	7.12	<=11	PASS
		5240	6.65	<=11	PASS
		5260	7.19	<=11	PASS
11N20SISO	Ant1	5280	7.24	<=11	PASS
		5320	6.32	<=11	PASS
		5745	4.71	<=30	PASS
		5785	4.41	<=30	PASS
		5825	5.19	<=30	PASS
	Ant1	5190	3.43	<=11	PASS
		5230	3.39	<=11	PASS
11N40SISO		5270	3.26	<=11	PASS
		5310	3.04	<=11	PASS
		5755	1.69	<=30	PASS
		5795	1	<=30	PASS



9.4 Conducted Spurious emissions

Test Method

- Use the following spectrum analyzer settings: Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span. RBW = 100 kHz, VBW≥RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 2. Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded.
- 3. The level displayed must comply with the limit specified in this Section. Submit these plots.
- 4. Repeat above procedures until all frequencies measured were complete.

Limits:

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.

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.

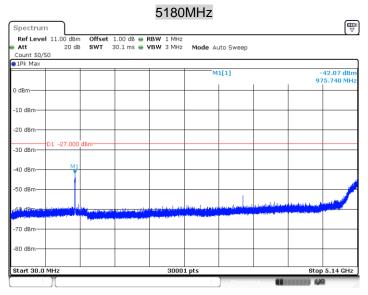
For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

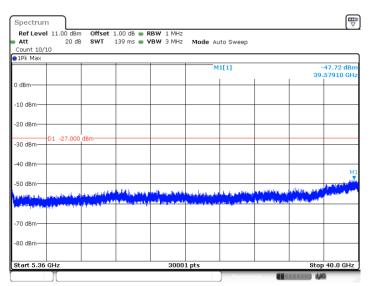


Transmitting spurious emission test result as below (Conducted Mode):

IEEE 802.11n-HT20 modulation Test Result

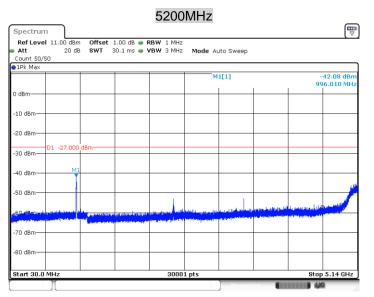


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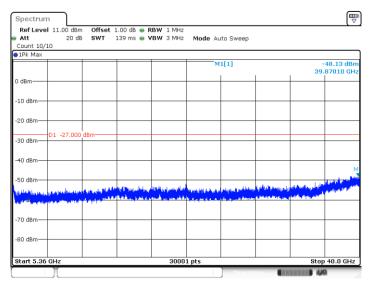


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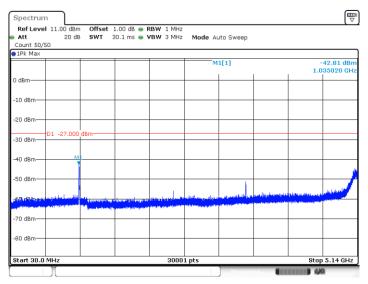


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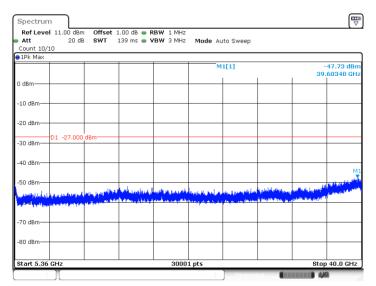


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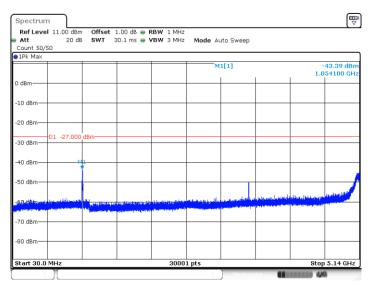


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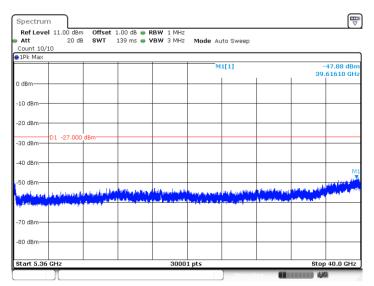


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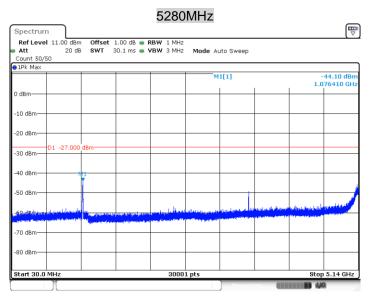


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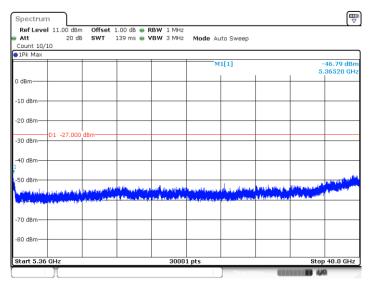


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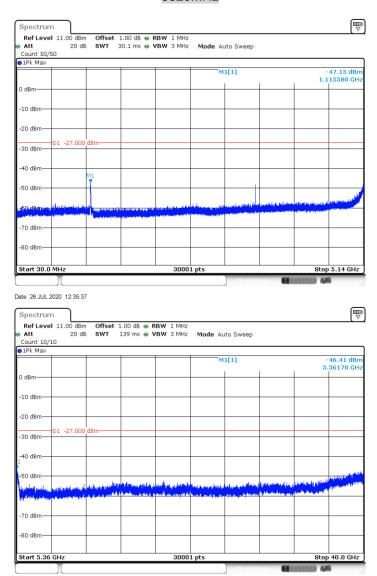


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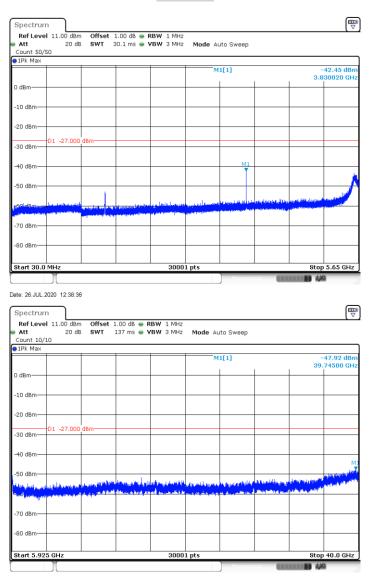
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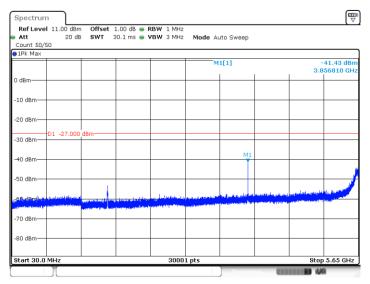
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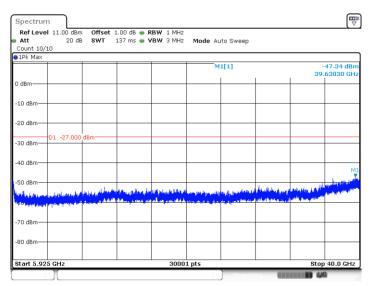


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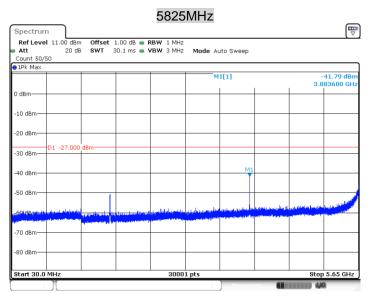


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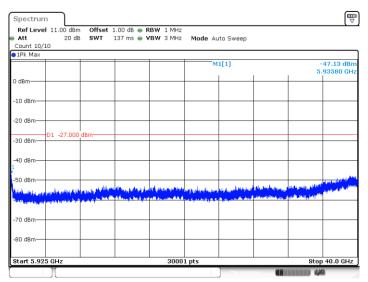


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Date: 26.JUL.2020 12:43:46

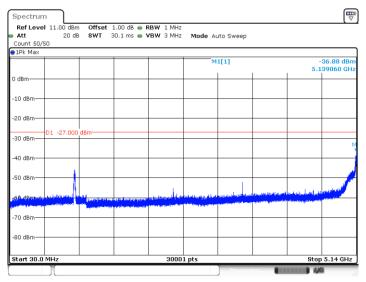


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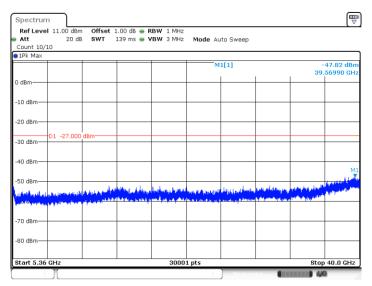


IEEE 802.11n-HT40 modulation Test Result

5190MHz

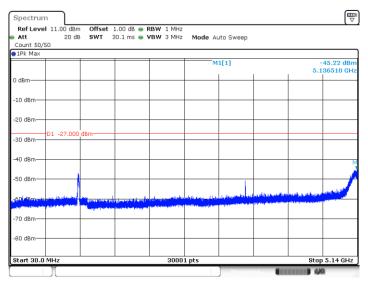


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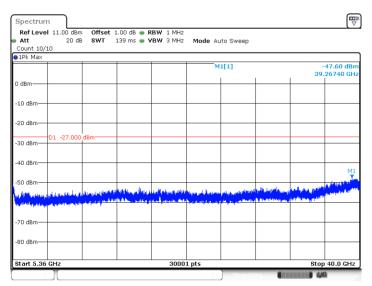


Date: 26.JUL.2020 12:47:03



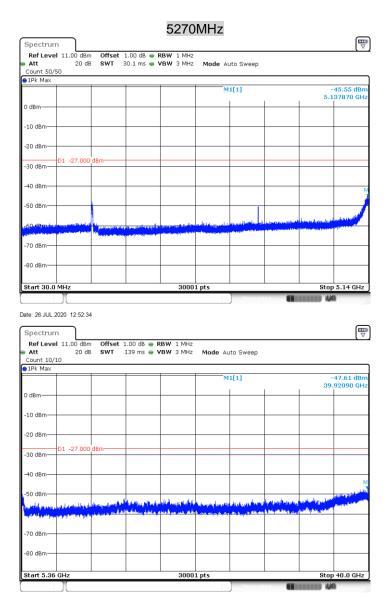


Date: 26.JUL.2020 12:49:43



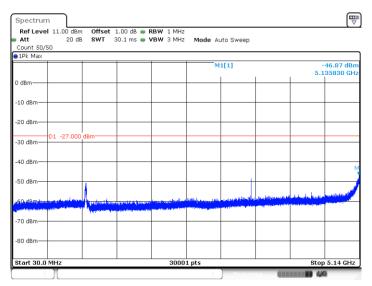
Date: 26.JUL.2020 12:49:48



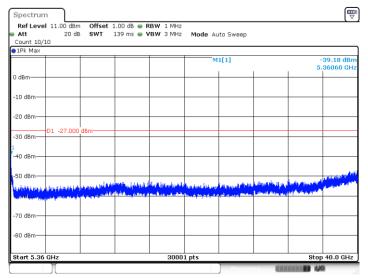


Date: 26.JUL.2020 12:52:39



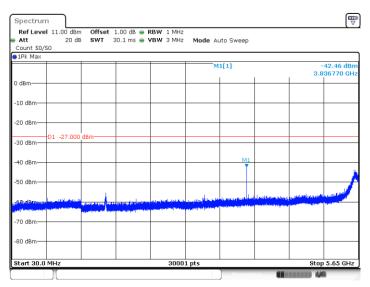


Date: 26.JUL.2020 12:59:31

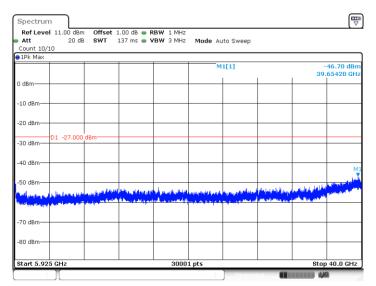


Date: 26.JUL.2020 12:59:36



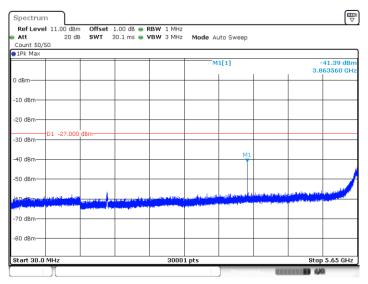


Date: 26.JUL.2020 13:04:49

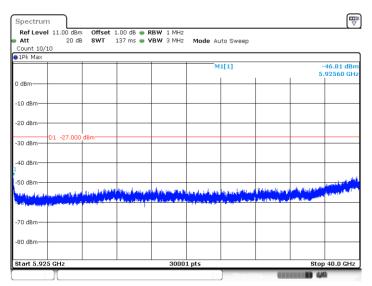


Date: 26.JUL.2020 13:04:54





Date: 26.JUL.2020 13:07:36



Date: 26.JUL.2020 13:07:41



9.5 Radiated Spurious emissions

Transmitting spurious emission test result as below (Radiated Mode):

Test Method

- The EUT was place on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3meter chamber room for test. The table was
 - rotated 360 degrees to determine the position of the highest radiation.
- 2. The EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned
- 5. Use the following spectrum analyzer settings According to C63.10: For Above 1GHz

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 1MHz, VBW≥RBW for peak measurement and VBW = 10Hz for average measurement, Sweep = auto, Detector function = peak, Trace = max hold. For Below 1GHz

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 100 KHz, VBW≥RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

Note:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for peak detection (PK) at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average ((duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor (20log(1/duty cycle)).
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.



Limit

According to part 15.407b, the radio emission outside the operating frequency band shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. Radiated emissions which fall in the restricted bands, as defined in section 15.205, must comply with the radiated emission limits specified in section 15.209.

Frequency	Field Strength	Field Strength	Detector
MHz	uV/m	dBμV/m	
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK

According to part 15.407b (1) (2) (3) (4)

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.

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.

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.

For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

Note: According to KDB 789033 D02 (G): $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for d = 3 meters.