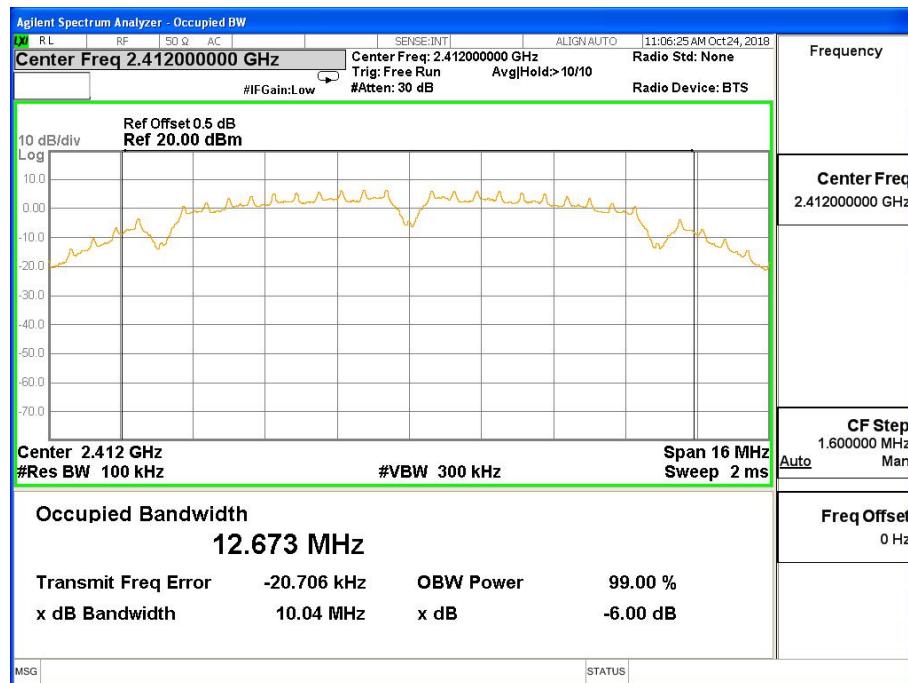




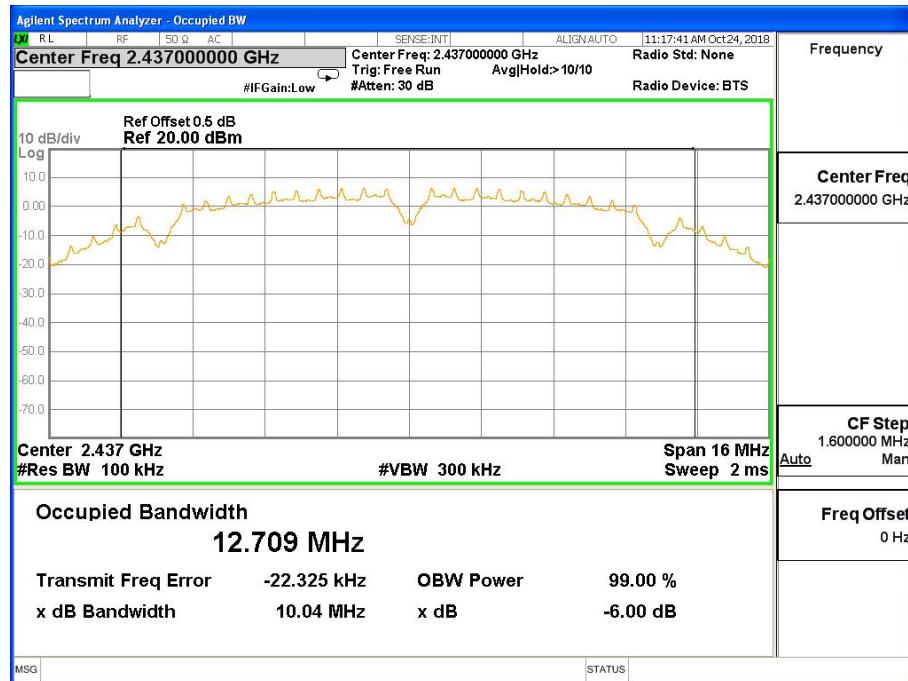
PRECISE TESTING

Report No.: PTC18091803203E-FC02

802.11b Low Channel



802.11b Middle Channel

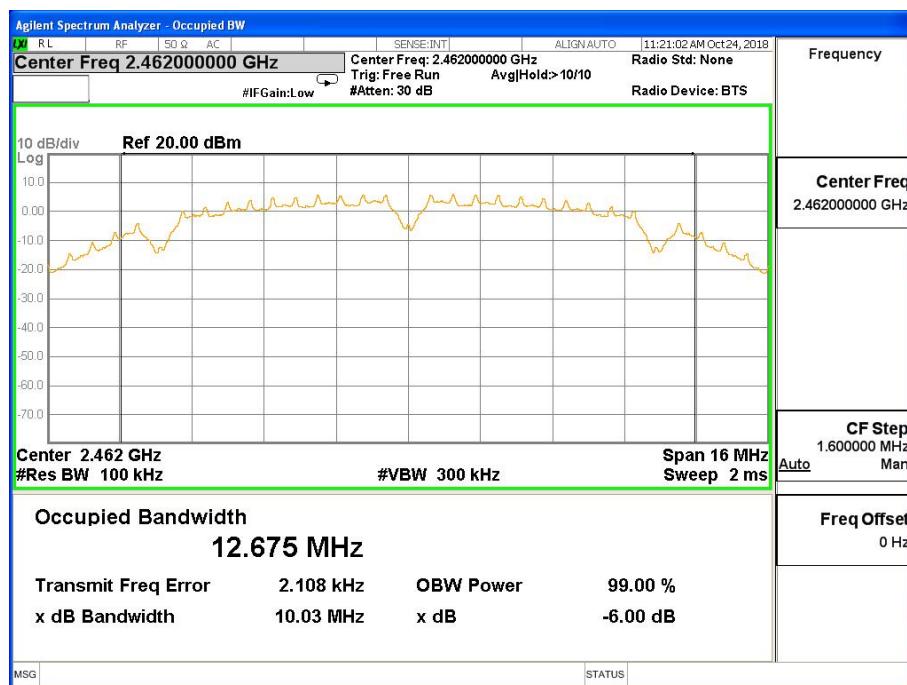




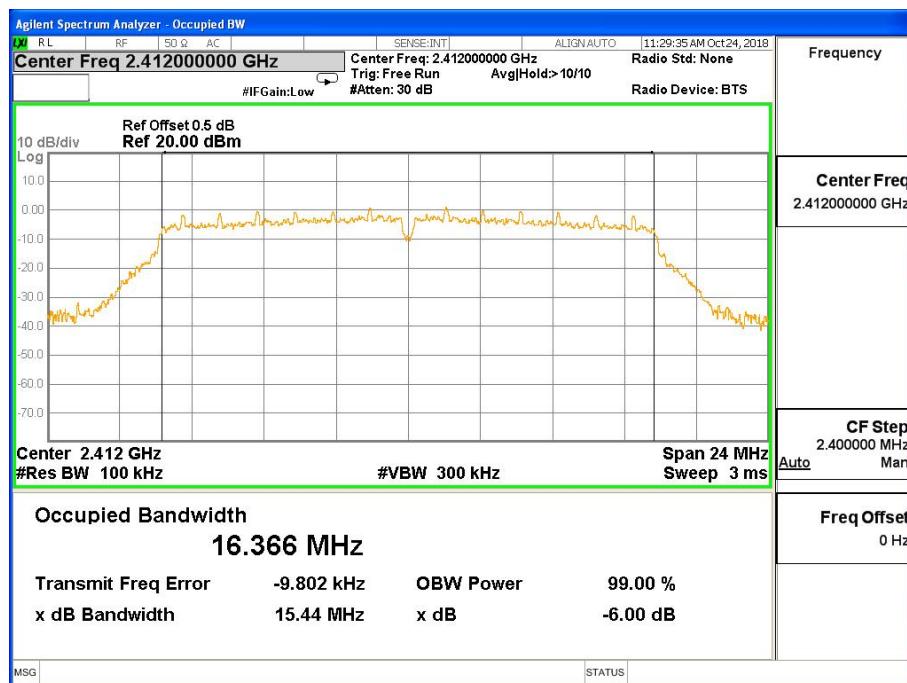
PRECISE TESTING

Report No.: PTC18091803203E-FC02

802.11b High Channel



802.11g Low Channel

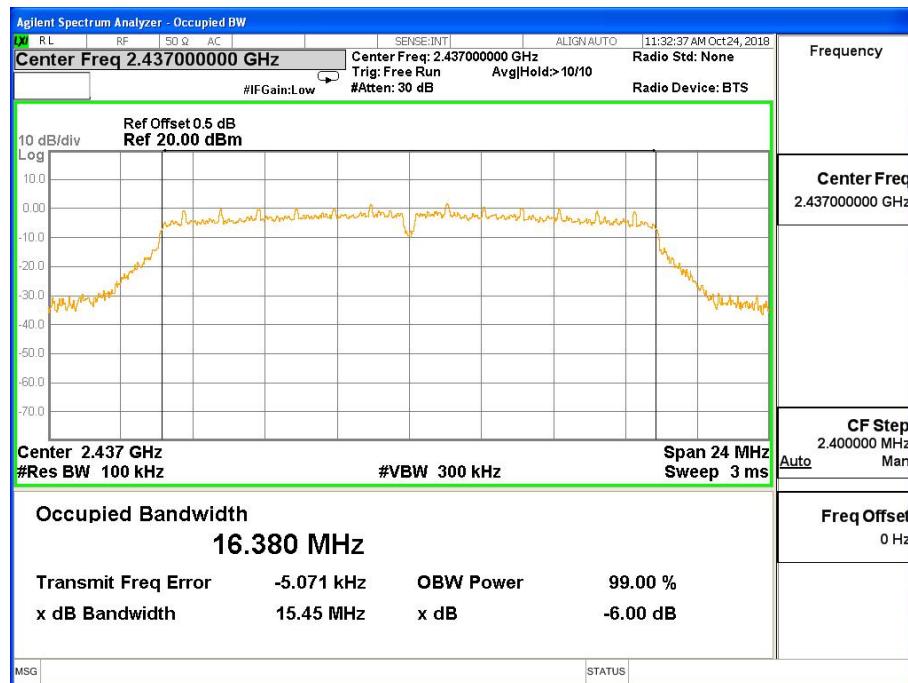




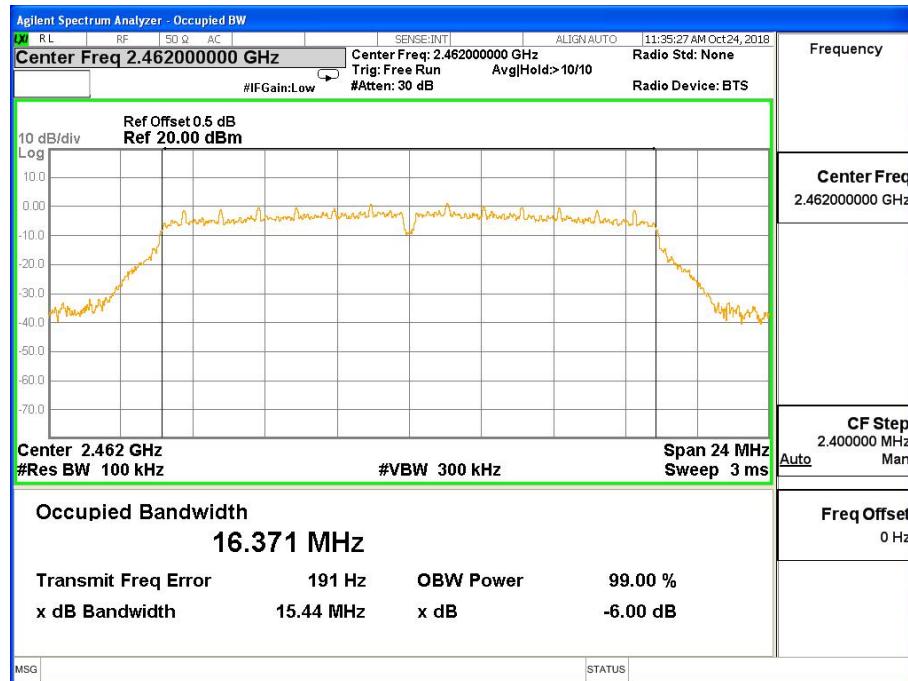
PRECISE TESTING

Report No.: PTC18091803203E-FC02

802.11g Middle Channel



802.11g High Channel

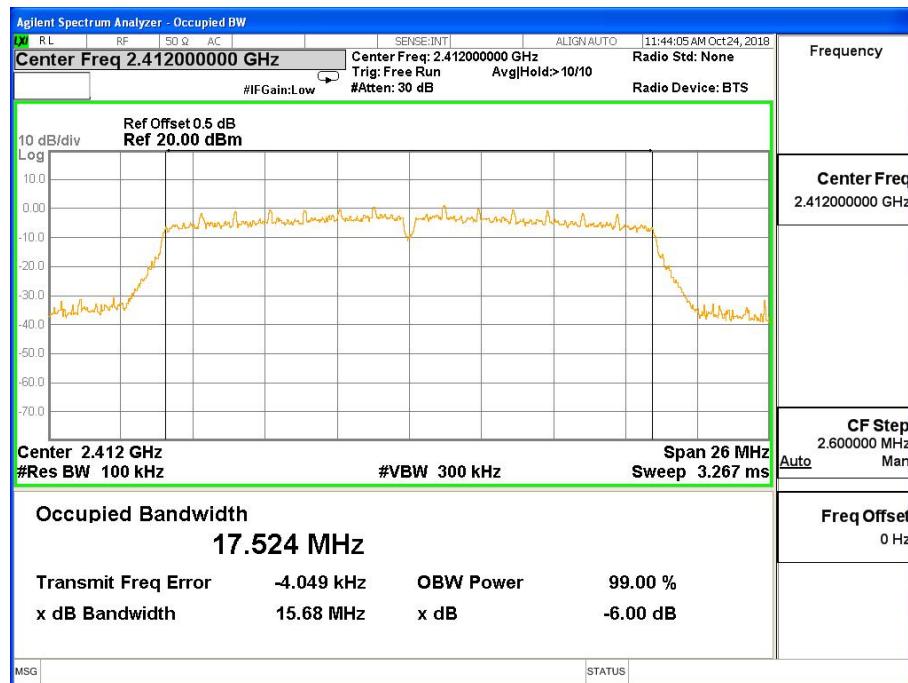




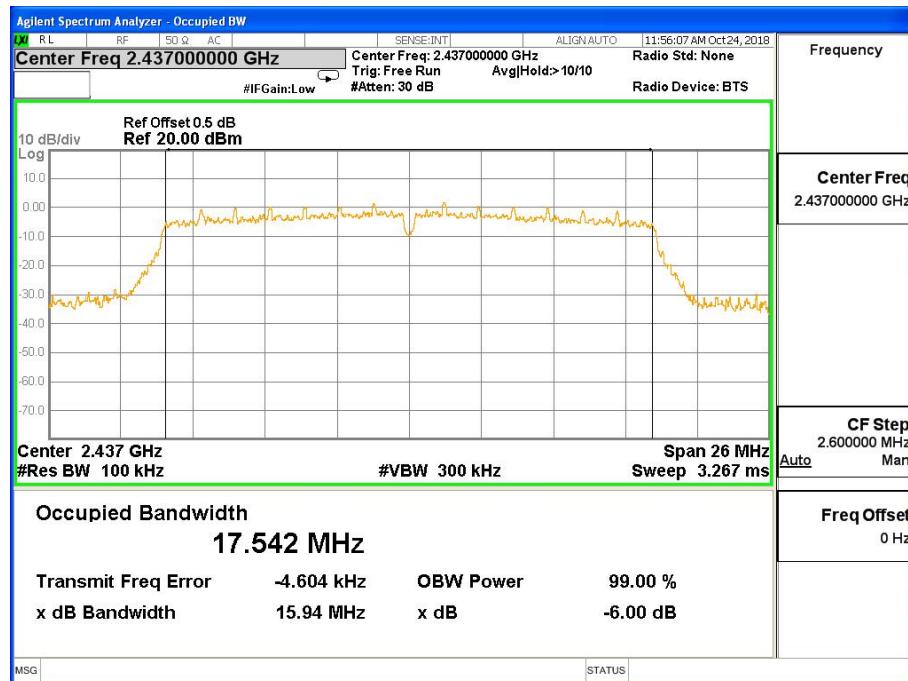
PRECISE TESTING

Report No.: PTC18091803203E-FC02

802.11n-HT20 Low Channel



802.11n-HT20 Middle Channel

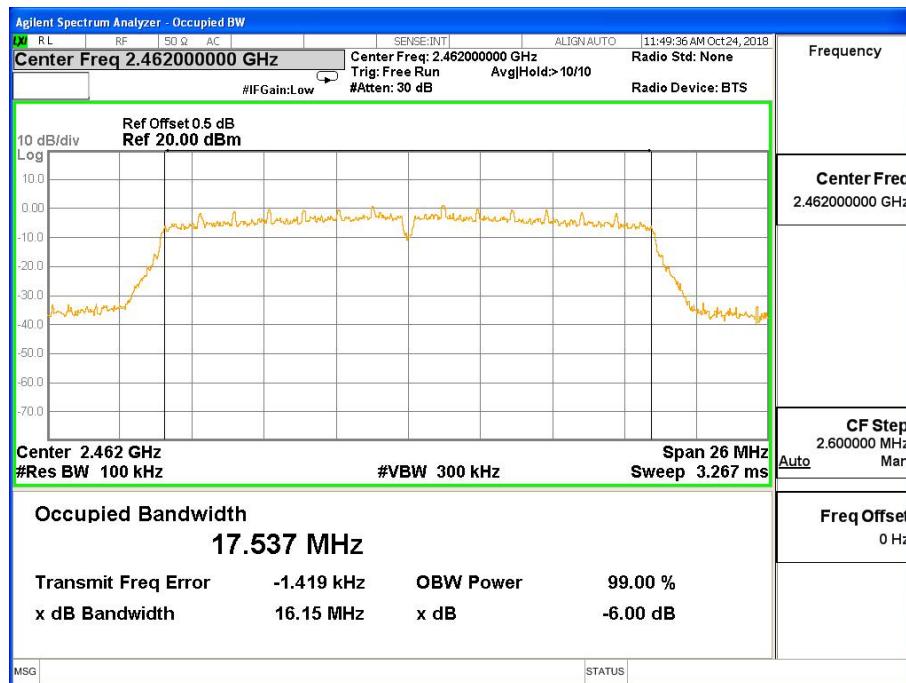




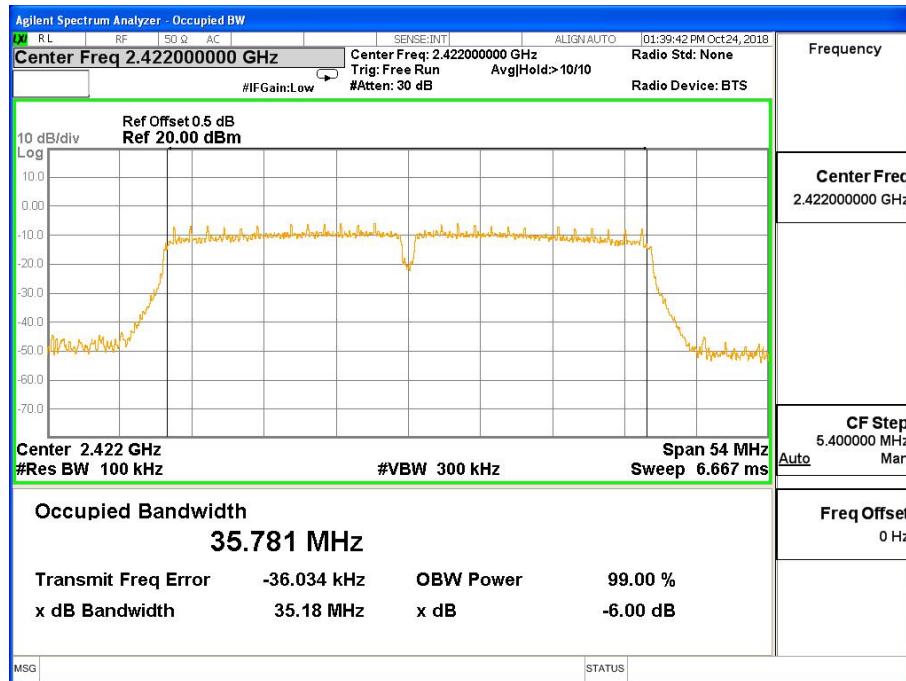
PRECISE TESTING

Report No.: PTC18091803203E-FC02

802.11n-HT20 High Channel



802.11n-HT40 Low Channel

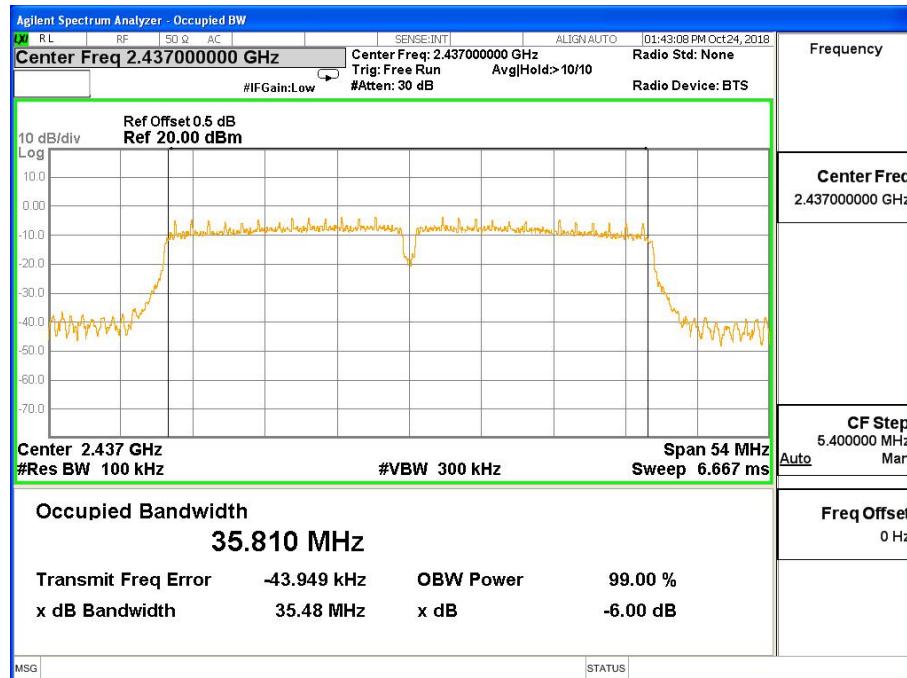




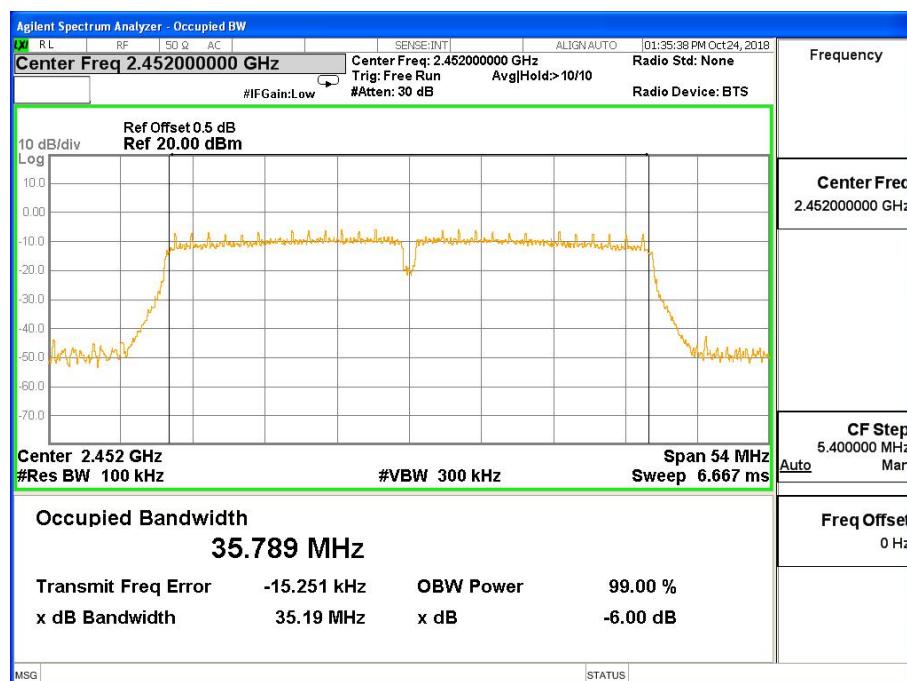
PRECISE TESTING

Report No.: PTC18091803203E-FC02

802.11n-HT20 Middle Channel



802.11n-HT40 High Channel





PRECISE TESTING

Report No.: PTC18091803203E-FC02

10 Maximum Peak Output Power

Test Requirement : FCC CFR47 Part 15 Section 15.247

Test Method : ANSI C63.10:2013

Test Limit : Regulation 15.247 (b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power.

10.1 Test Procedure

1. The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v05 section 9.1.2 PKPM1 Peak Power meter method.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.

10.2 Test Result

Modulation	Maximum Peak Output Power (dBm)			Limit
	Low Channel	Middle Channel	High Channel	
802.11b	9.25	9.44	9.40	1W(30dBm)
802.11g	8.19	8.83	8.47	1W(30dBm)
802.11n-HT20	8.10	8.65	8.07	1W(30dBm)
802.11n-HT40	6.52	7.15	6.32	1W(30dBm)



PRECISE TESTING

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11 Power Spectral density

Test Requirement	: FCC CFR47 Part 15 Section 15.247
Test Method	: ANSI C63.10:2013
Test Limit	: Regulation 15.247(f) The power spectral density conducted from the intentional radiator to the antenna due to the digital modulation operation of the hybrid system, with the frequency hopping operation turned off, shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

11.1 Test Procedure

1. The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW \geq 3RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be \geq 6 dB.

11.2 Test Result

Modulation	Power Spectral density (dBm/3kHz)			Limit
	Low Channel	Middle Channel	High Channel	
802.11b	-9.620	-11.127	-9.897	8dBm/3kHz
802.11g	-13.176	-12.160	-13.793	8dBm/3kHz
802.11n-HT20	-13.967	-12.082	-13.006	8dBm/3kHz
802.11n-HT40	-18.819	-17.633	-19.228	8dBm/3kHz

802.11b Low Channel



PRECISE TESTING

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802.11b Middle Channel



802.11b High Channel

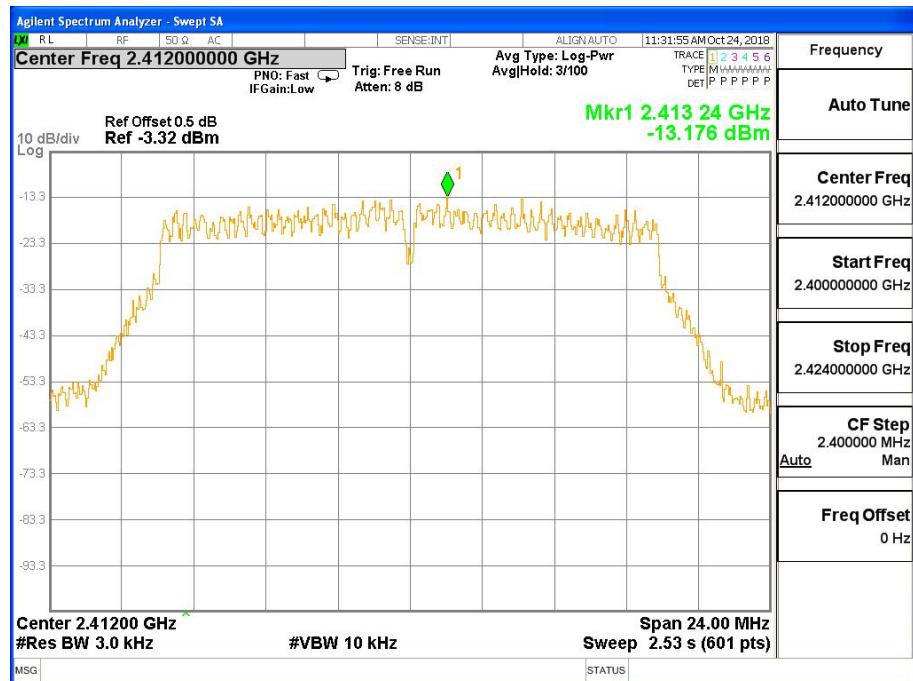


PRECISE TESTING

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802.11g Low Channel

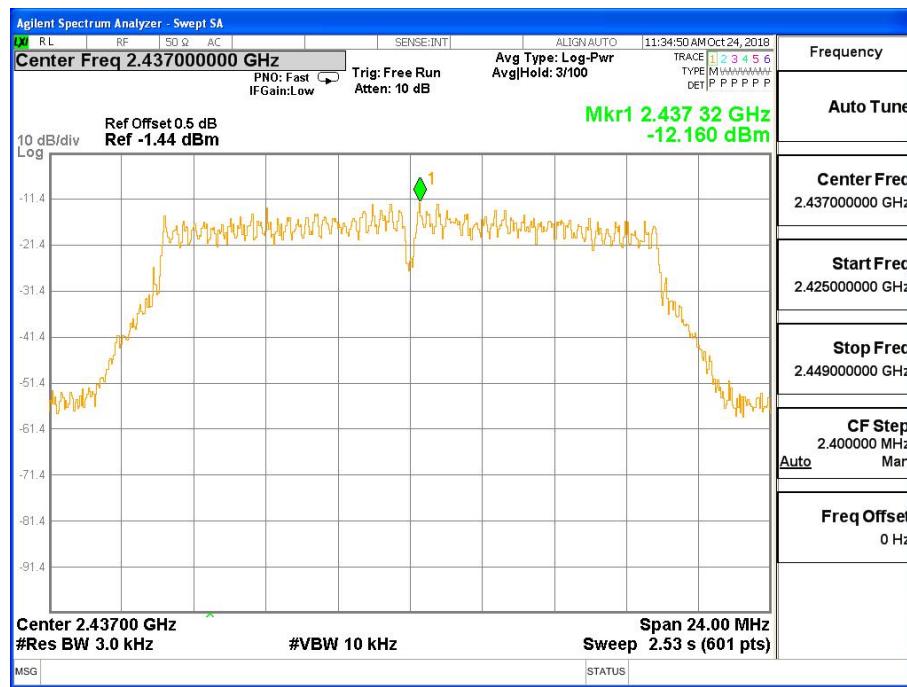


802.11g Middle Channel

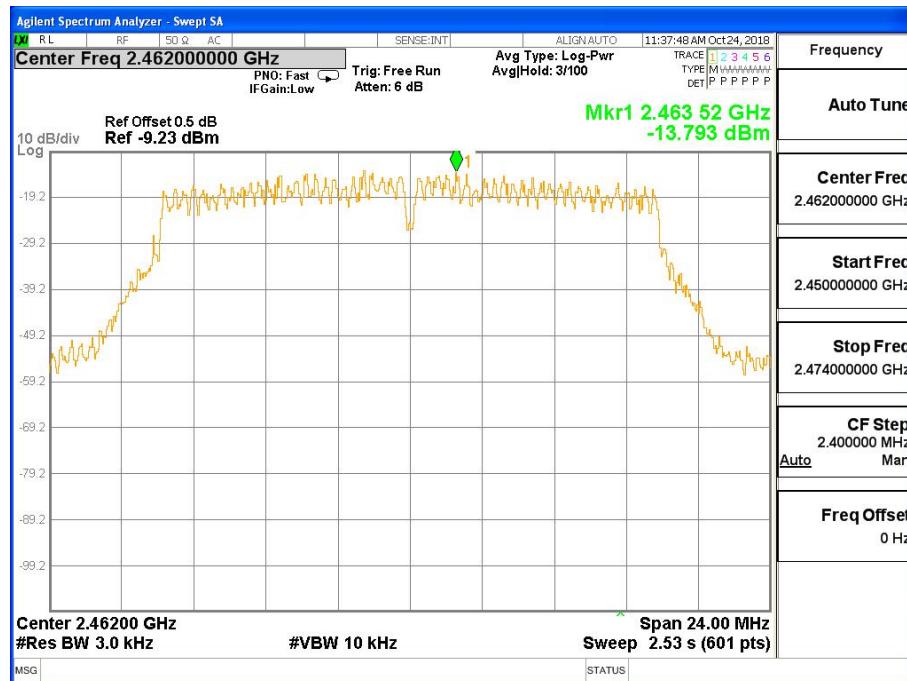


PRECISE TESTING

Report No.: PTC18091803203E-FC02



802.11g High Channel

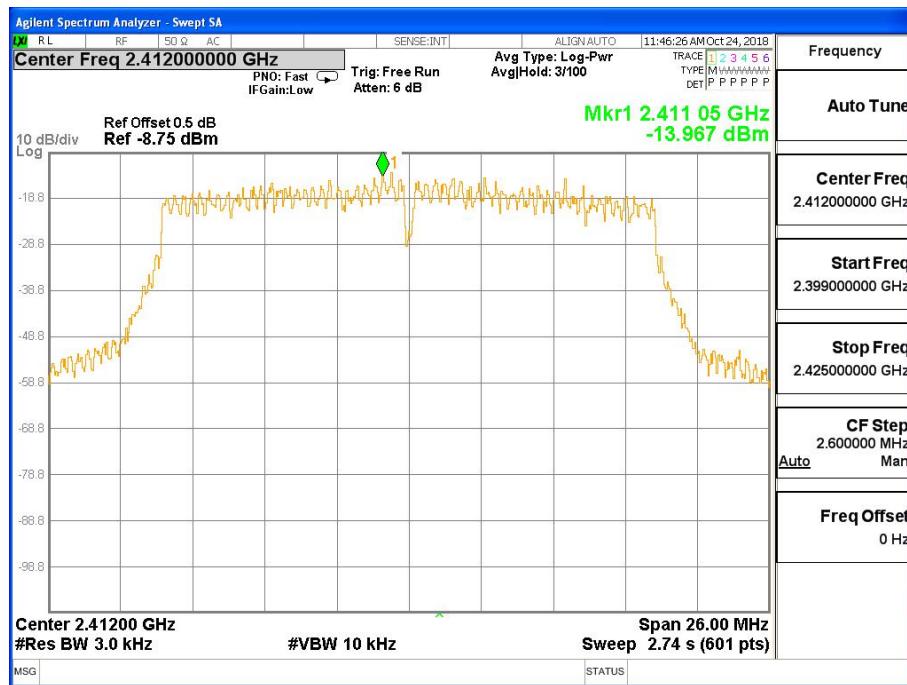




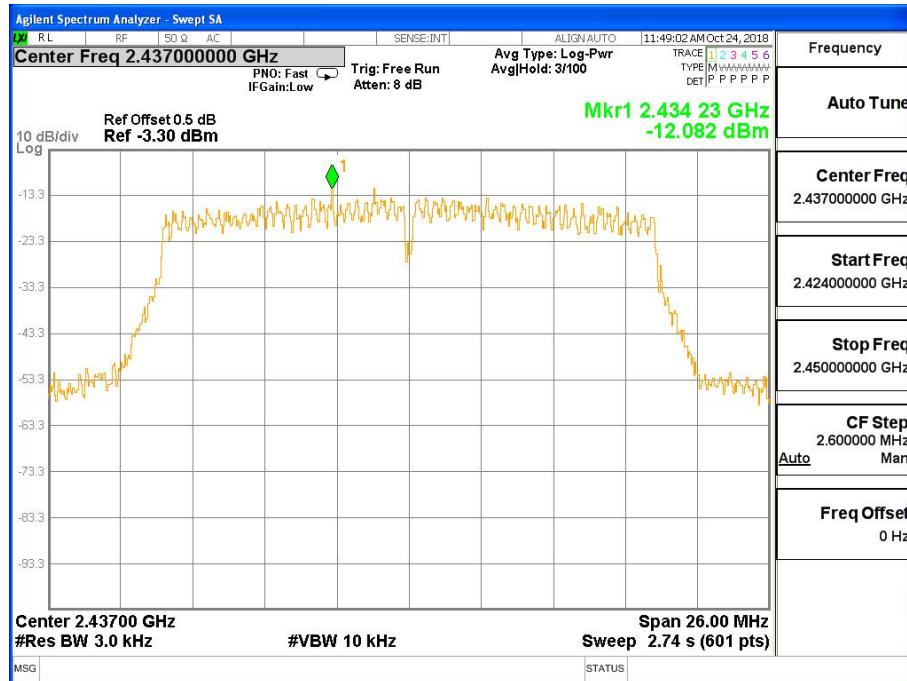
PRECISE TESTING

Report No.: PTC18091803203E-FC02

802.11n-HT20 Low Channel



802.11n-HT20 Middle Channel

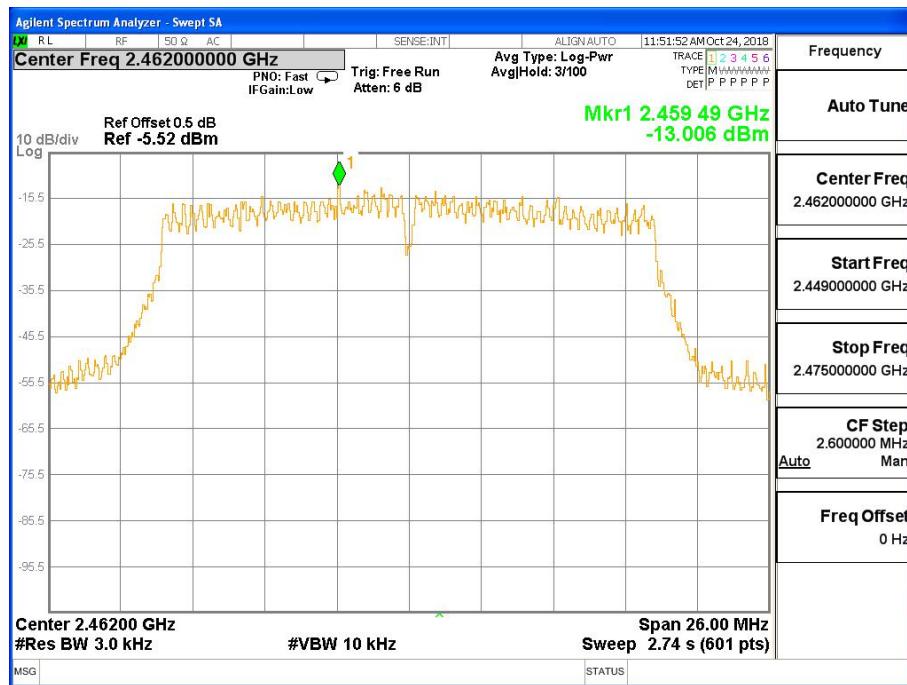




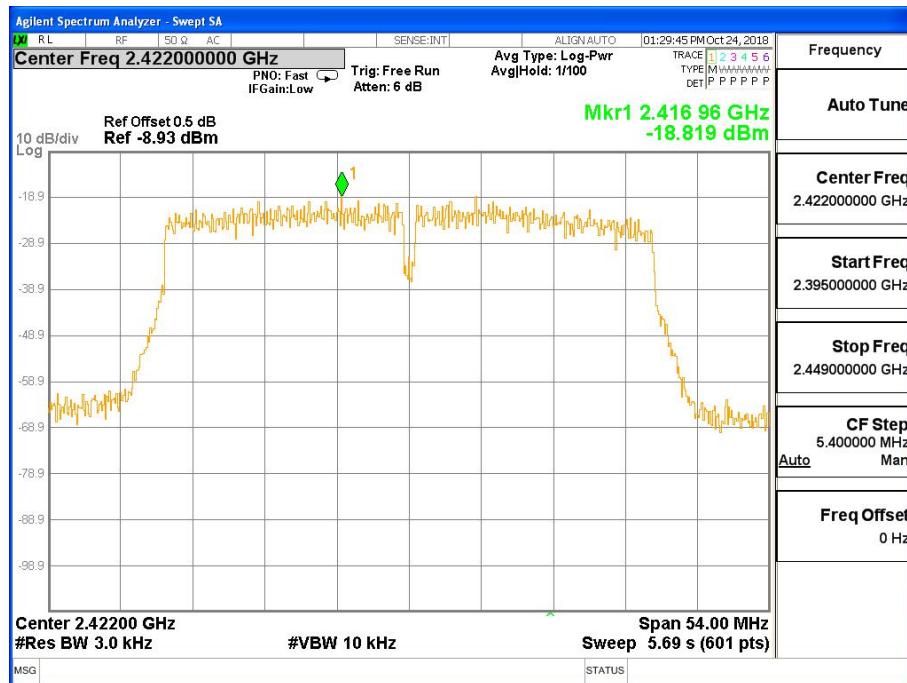
PRECISE TESTING

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802.11n-HT20 High Channel



802.11n-HT40 Low Channel

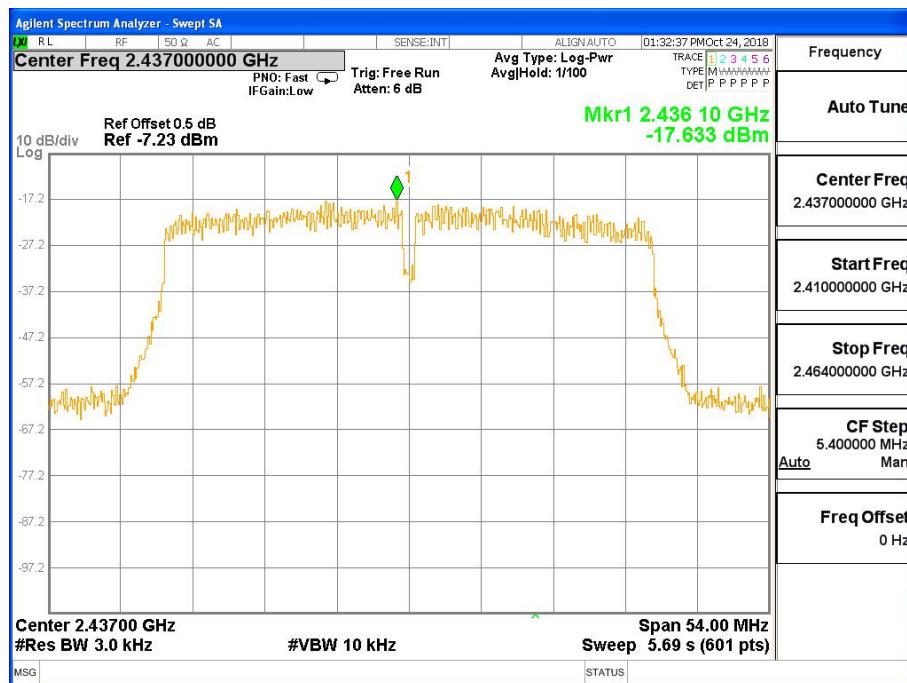




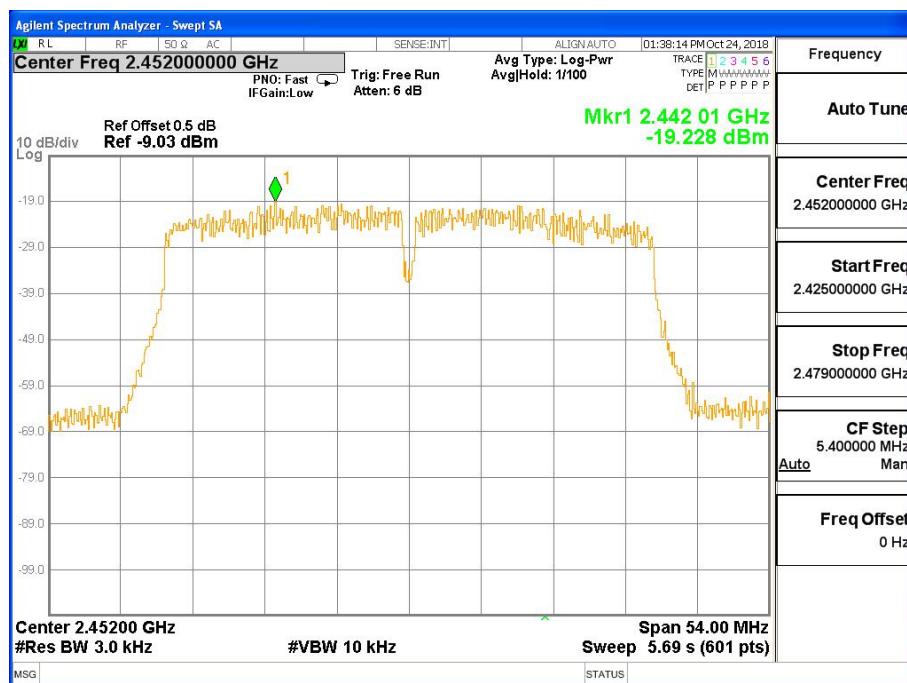
PRECISE TESTING

Report No.: PTC18091803203E-FC02

802.11n-HT40 Middle Channel



802.11n-HT40 High Channel





PRECISE TESTING

Report No.: PTC18091803203E-FC02

12 Antenna Application

12.1 Antenna Requirement

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

12.2 Result

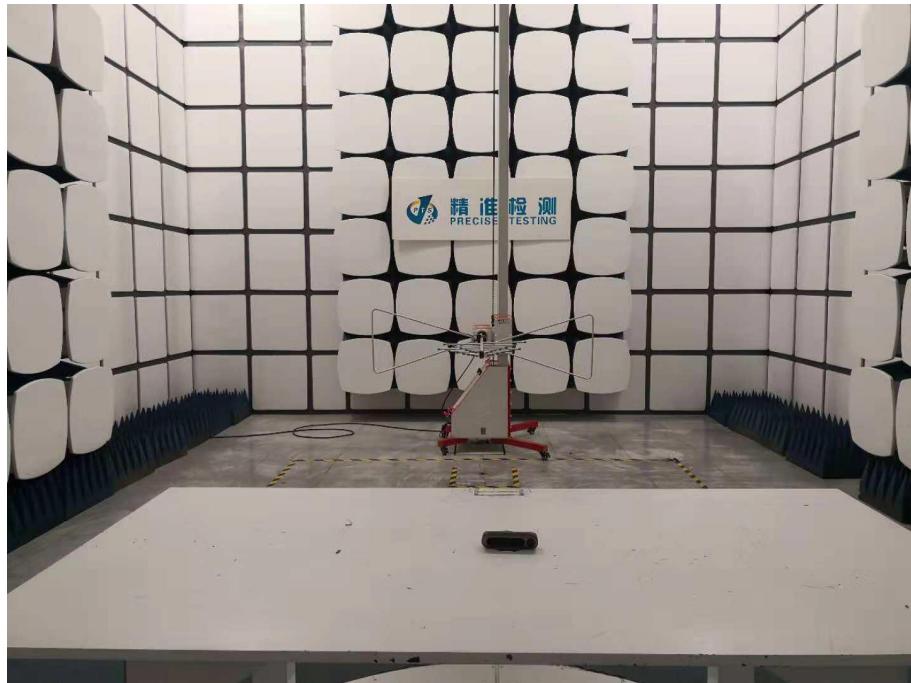
The EUT'S antenna, permanent attached antenna, is internal PCB antenna. The antenna's gain is 0dBi and meets the requirement.

13 Test Setup

Radiated Spurious Emissions CONDUCTED EMISSION TEST



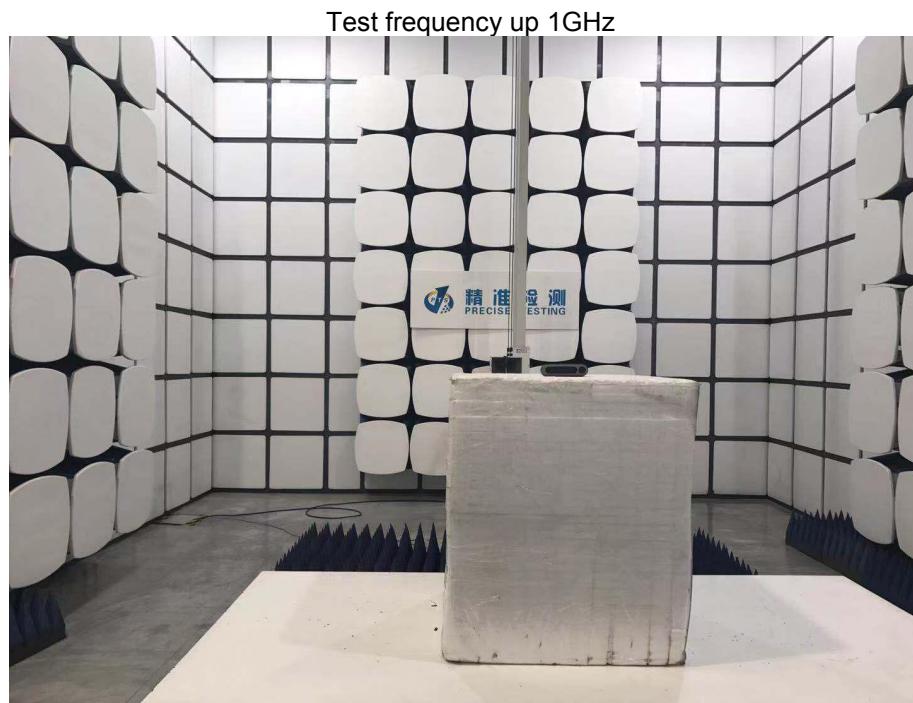
From 30MHz-1000MHz





PRECISE TESTING

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*****THE END REPORT*****