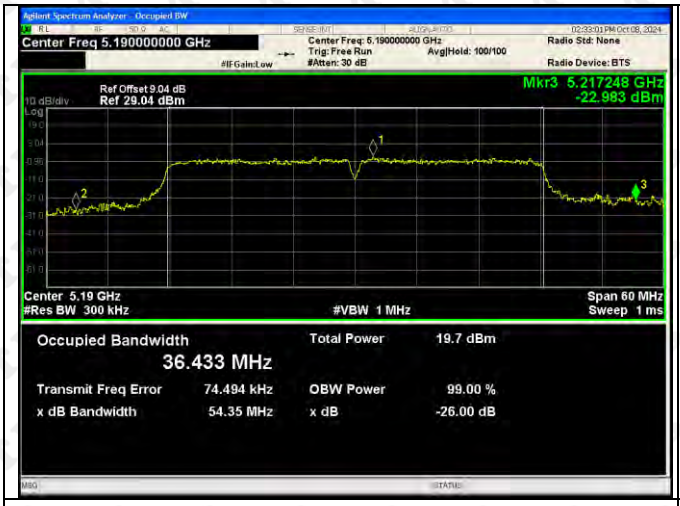
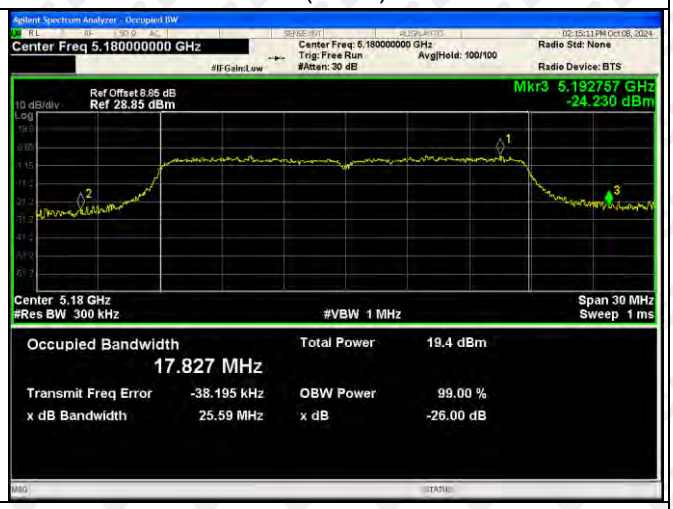


802.11ac(VH80)-5210

802.11n(HT20)-5180

802.11n(HT20)-5200



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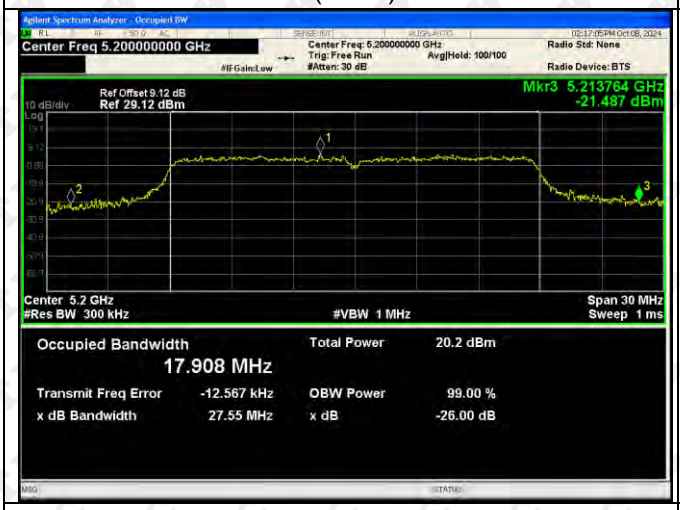
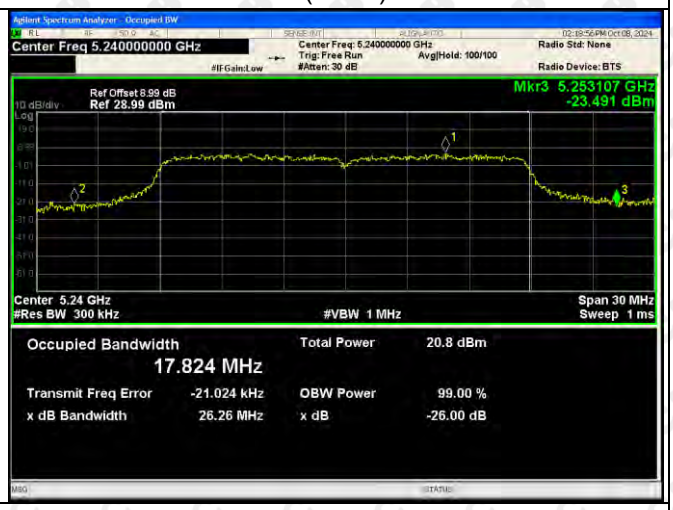
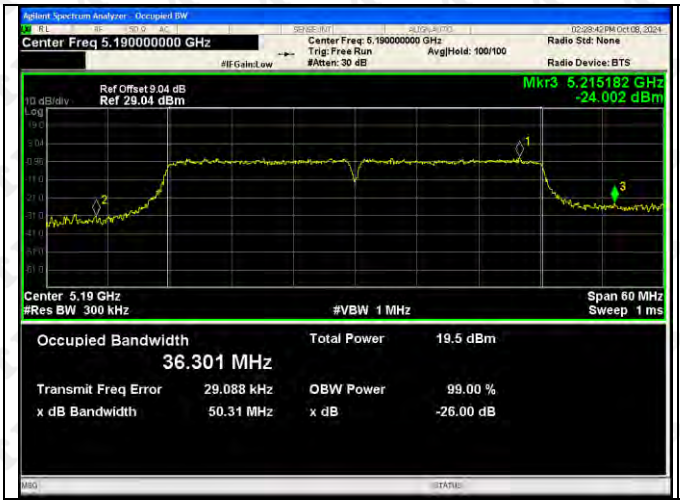
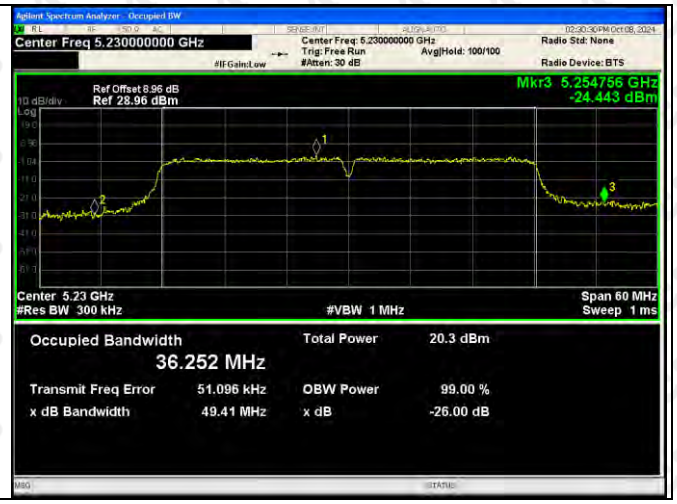


802.11n(HT40)-5190

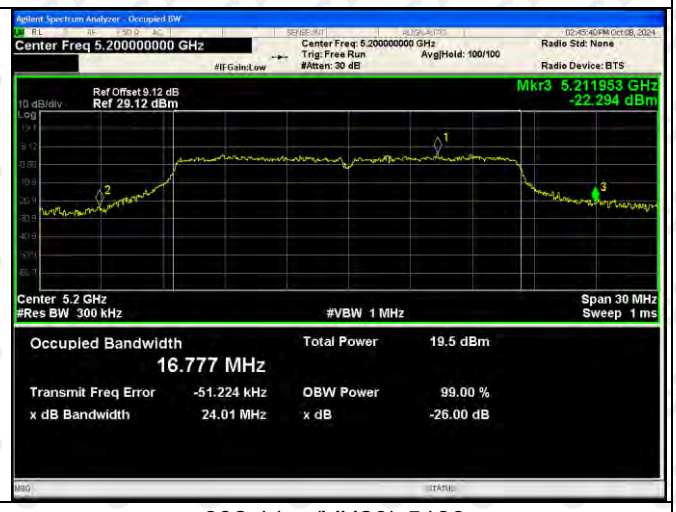
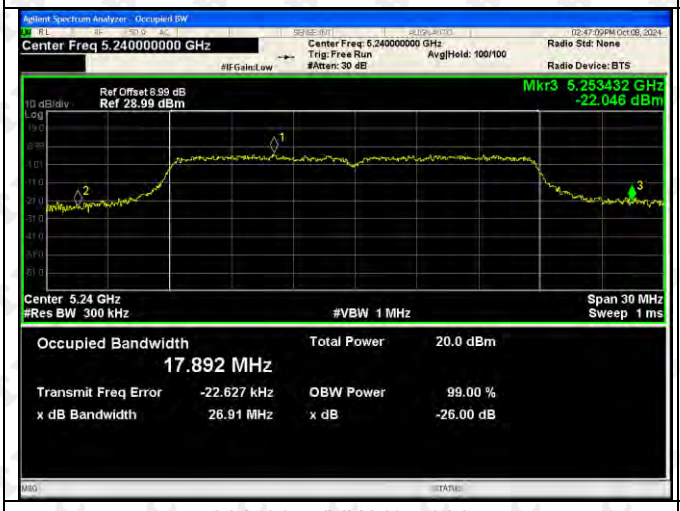


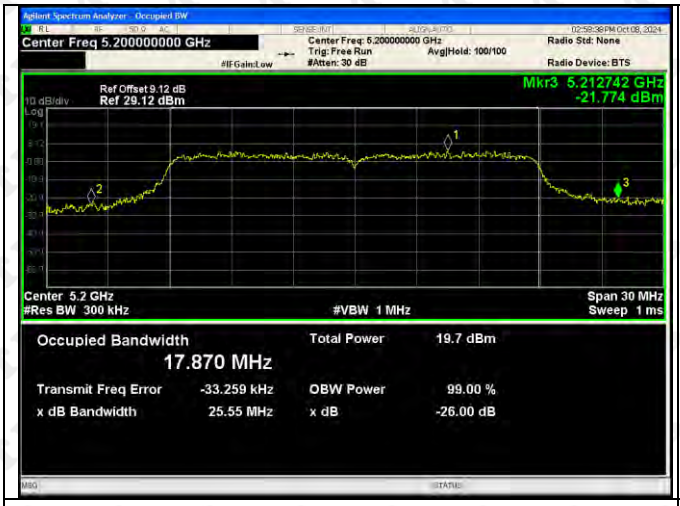
802.11n(HT40)-5230





ANT2

802.11a-5180	802.11a-5200
	
802.11a-5240	802.11ac(VH20)-5180
	
802.11ac(VH20)-5200	802.11ac(VH20)-5240



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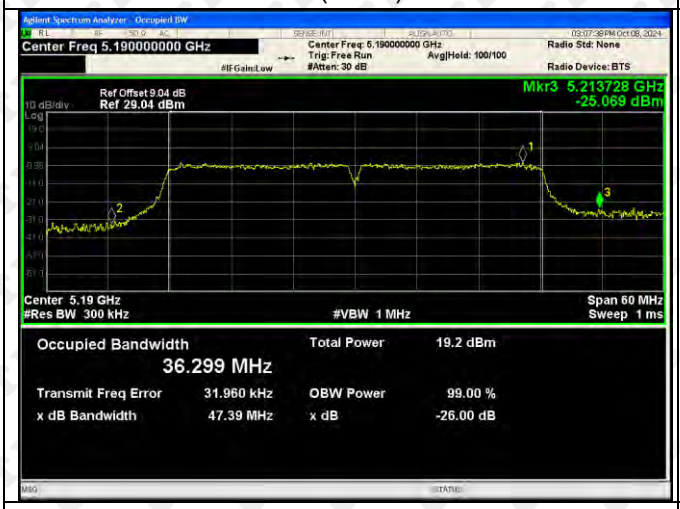
802.11ac(VH40)-5230



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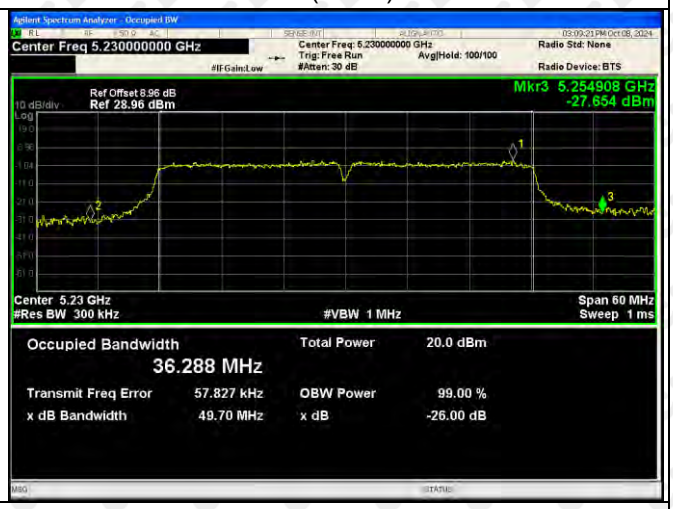

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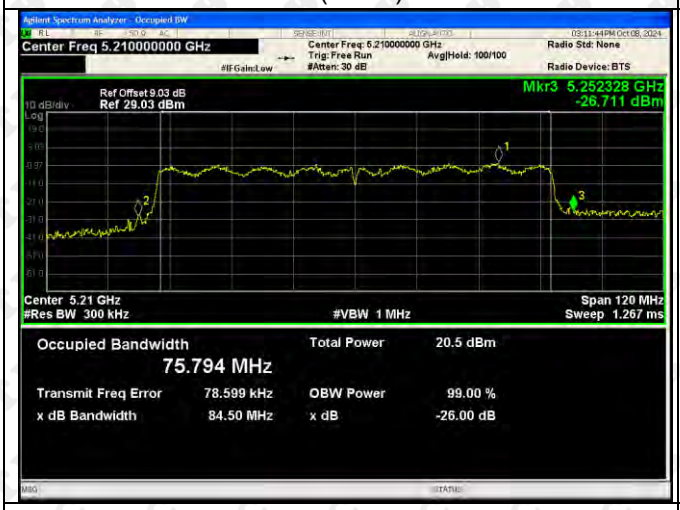

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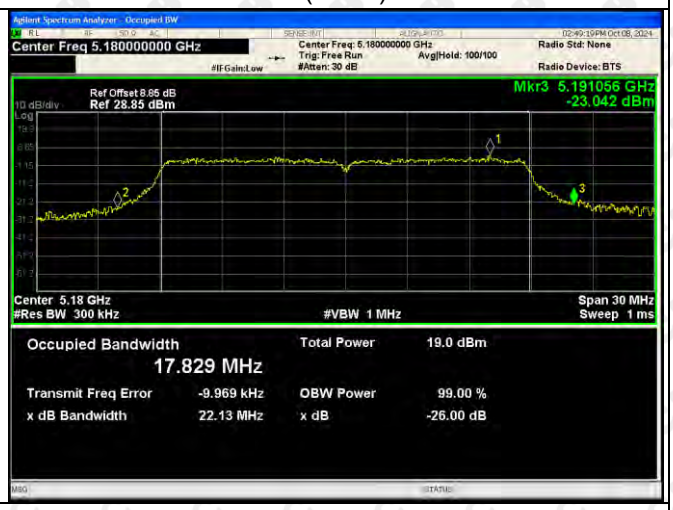

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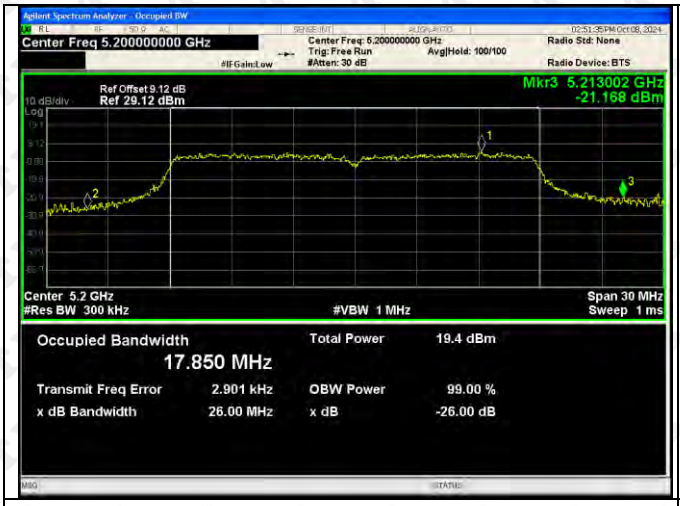

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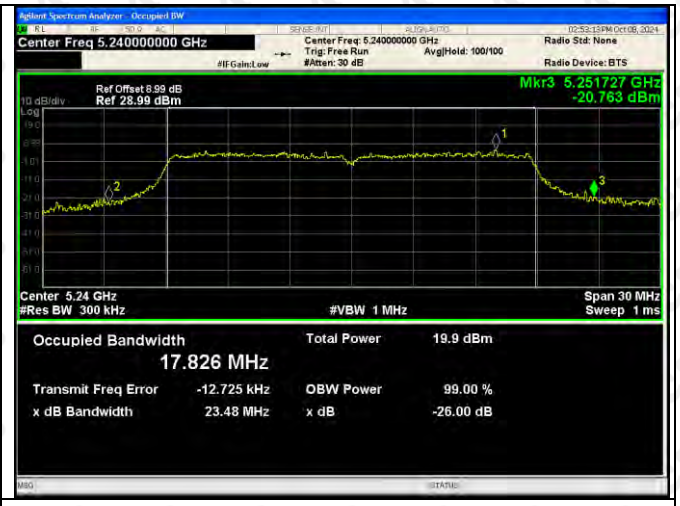

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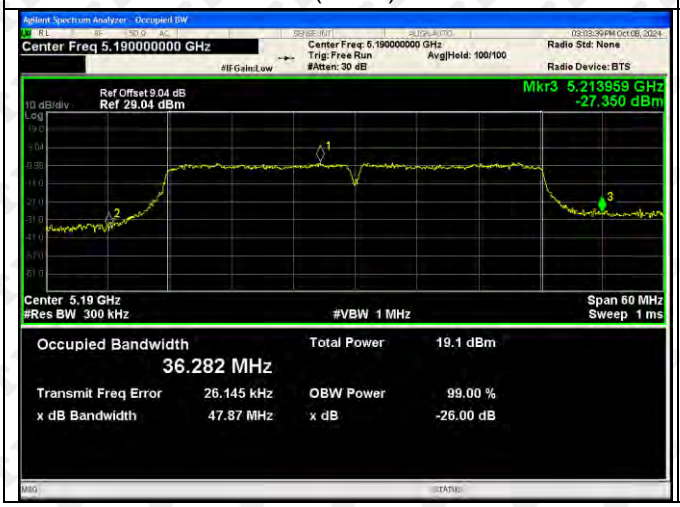
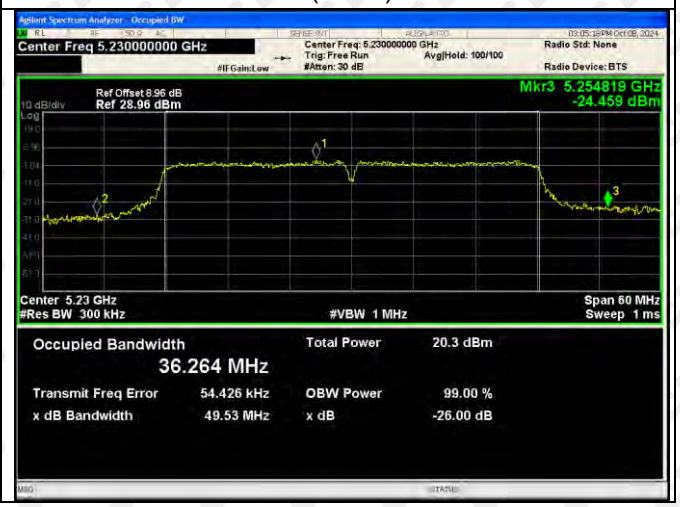
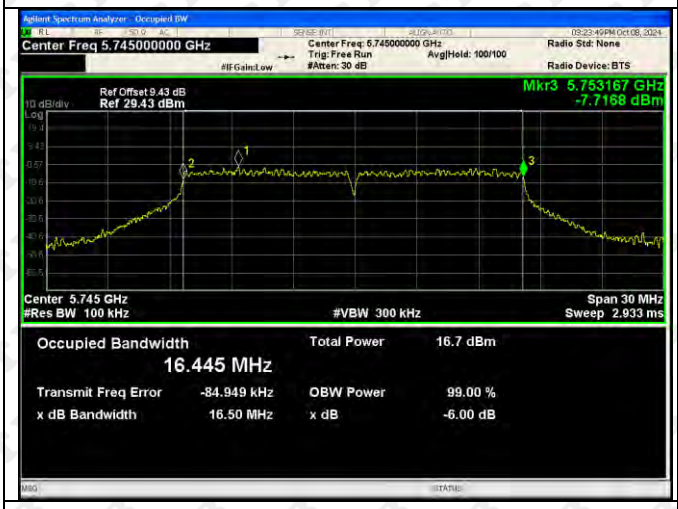




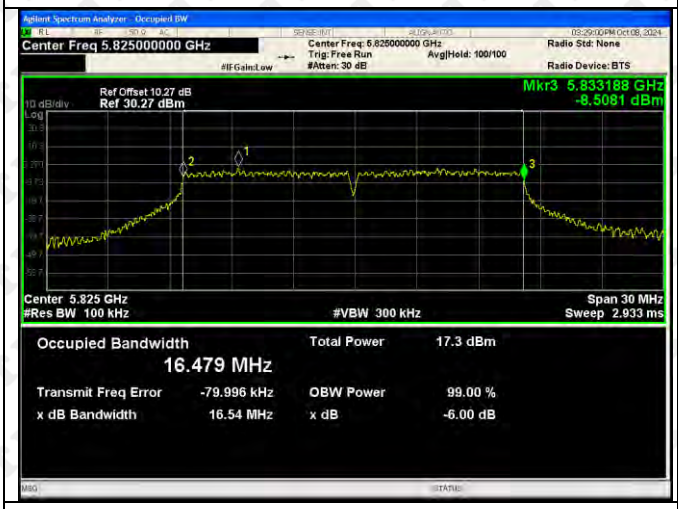
5745-5825MHz
ANT 1:

802.11a-5745

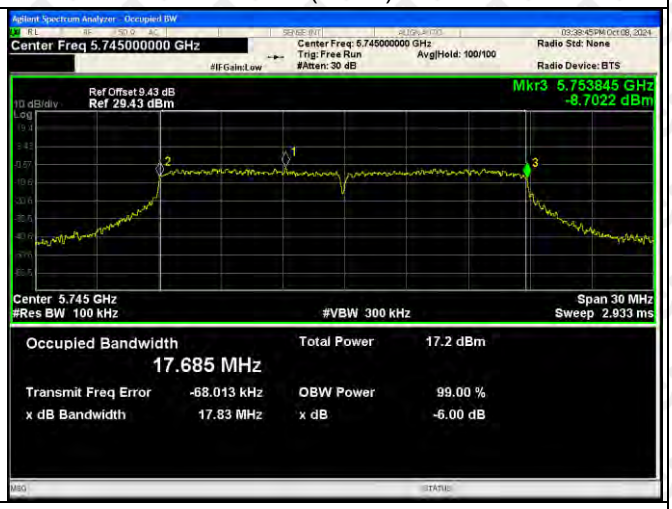


802.11a-5785

802.11a-5825



802.11ac(VH20)-5745



802.11ac(VH20)-5785

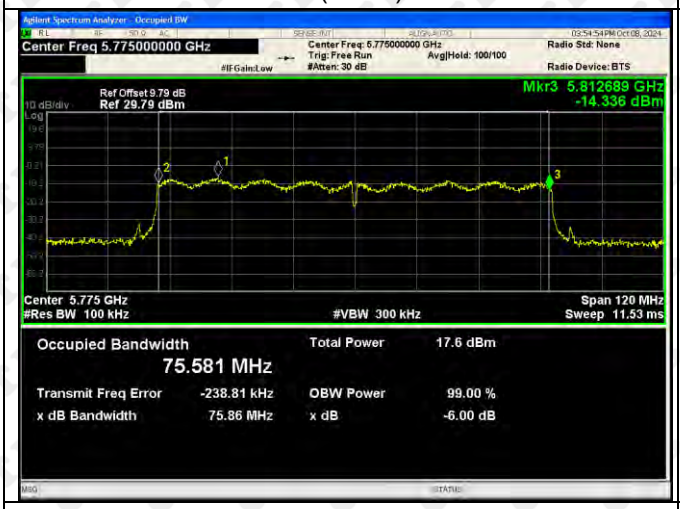
802.11ac(VH20)-5825

802.11ac(VH40)-5755

802.11ac(VH40)-5795

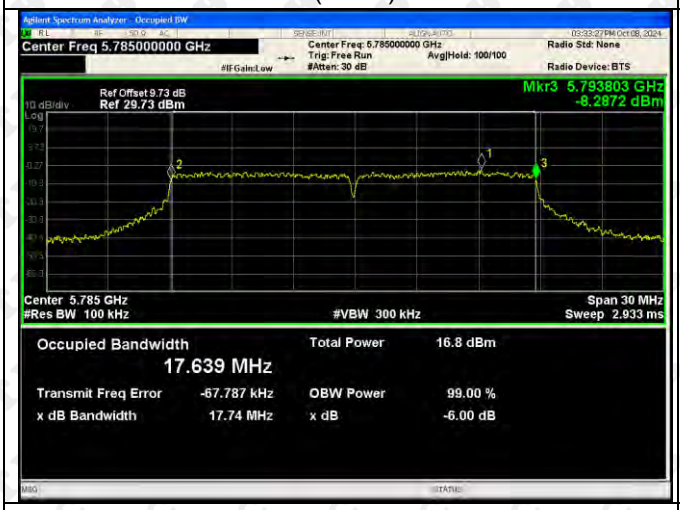
802.11ac(VH80)-5775

802.11n(HT20)-5745

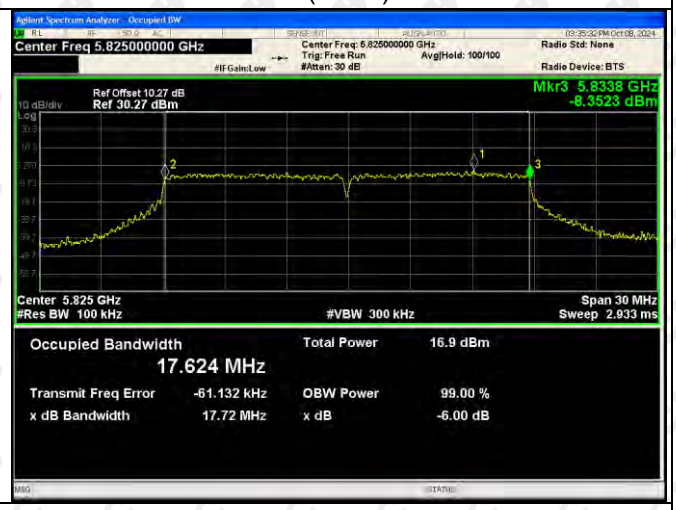


802.11n(HT20)-5785

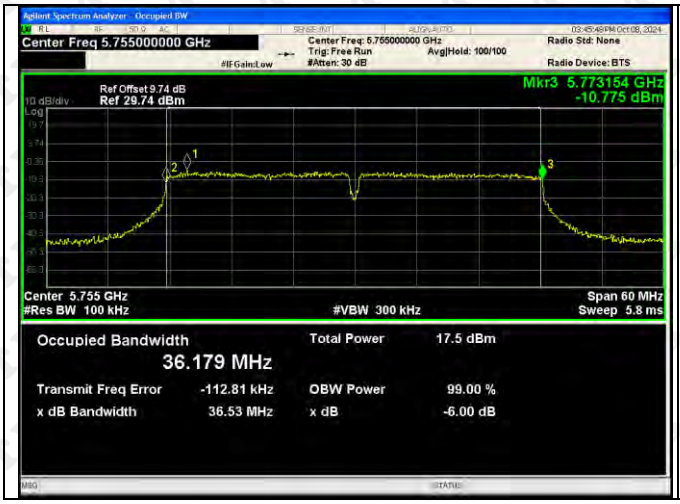
802.11n(HT20)-5825

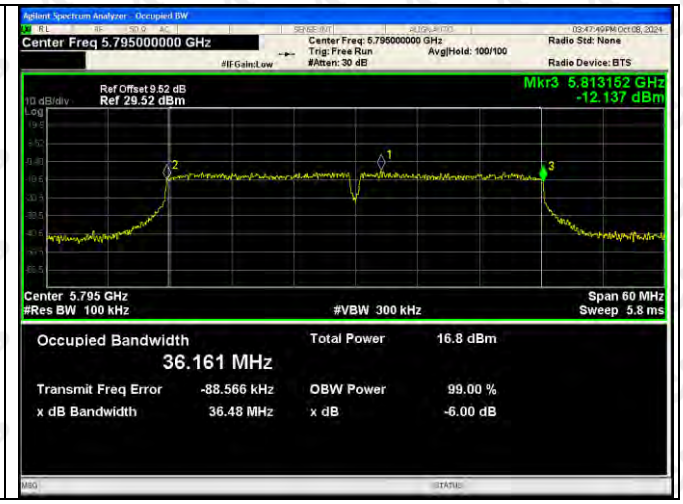


5802.11n(HT40)-5755

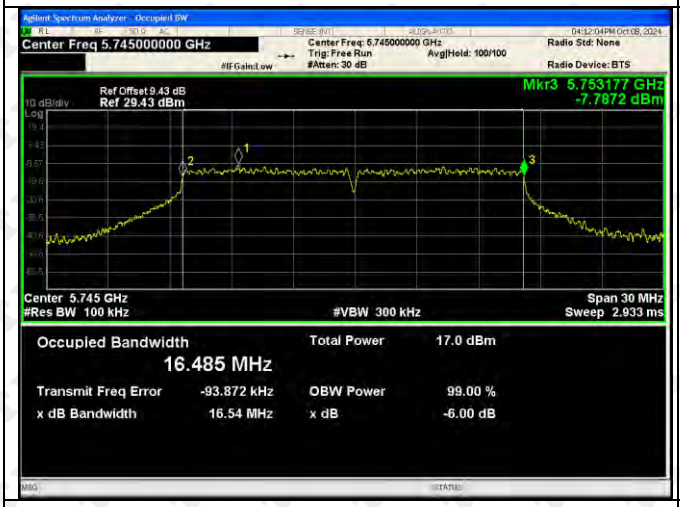
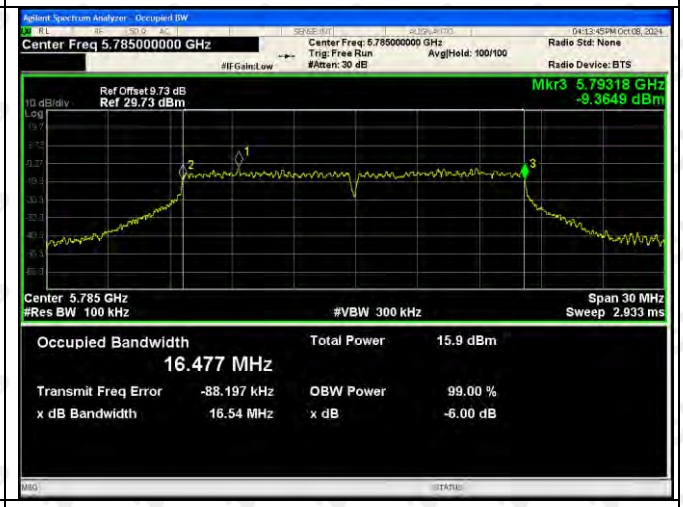
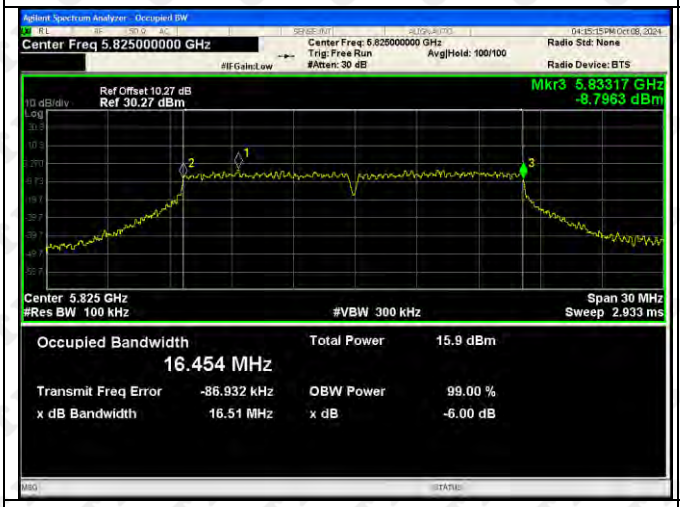
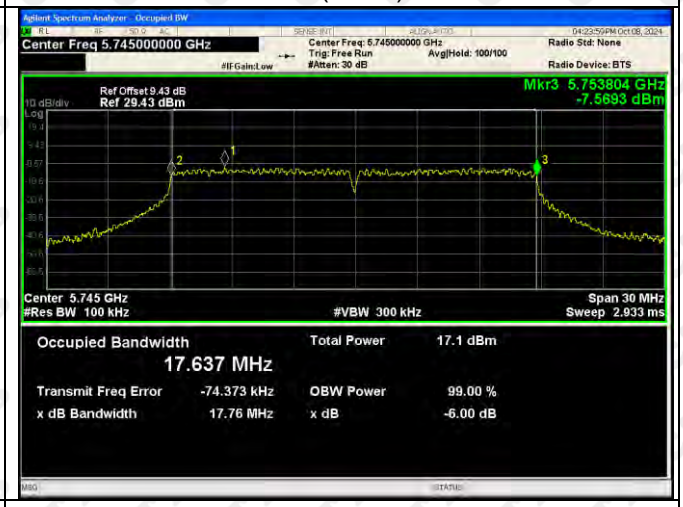


802.11n(HT40)-5795



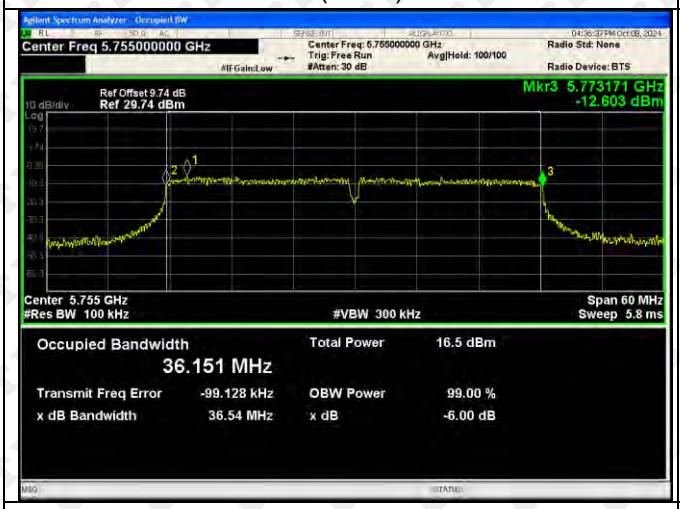


ANT2:

802.11a-5745	802.11a-5785
	
802.11a-5825	802.11ac(VH20)-5745
	
802.11ac(VH20)-5785	802.11ac(VH20)-5825

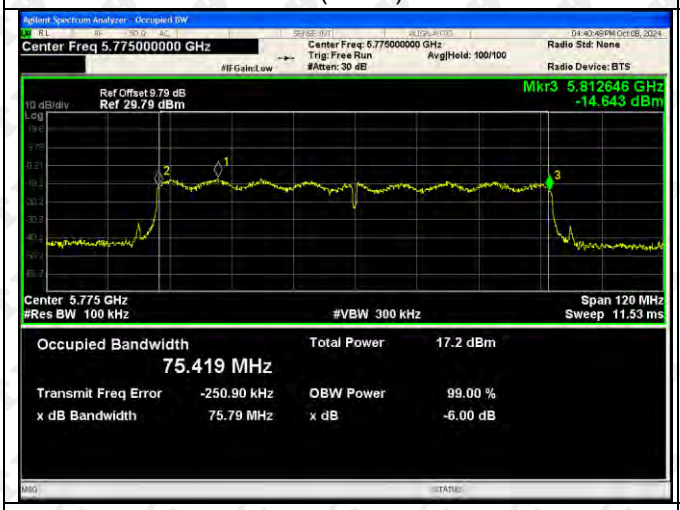
802.11ac(VH40)-5755

802.11ac(VH40)-5795



802.11ac(VH80)-5775

802.11n(HT20)-5745



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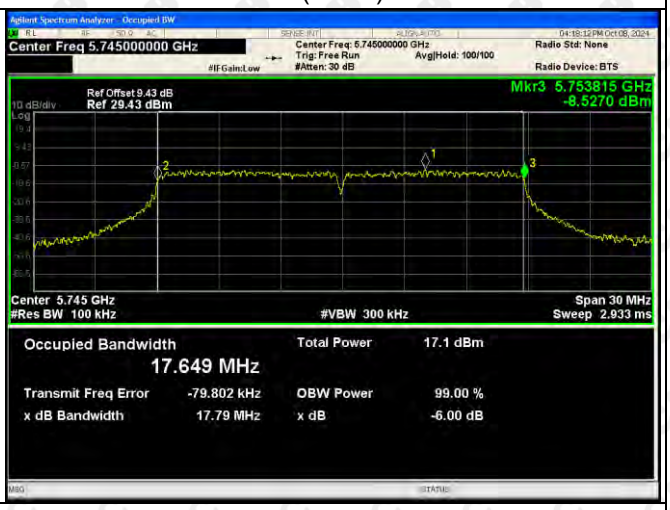
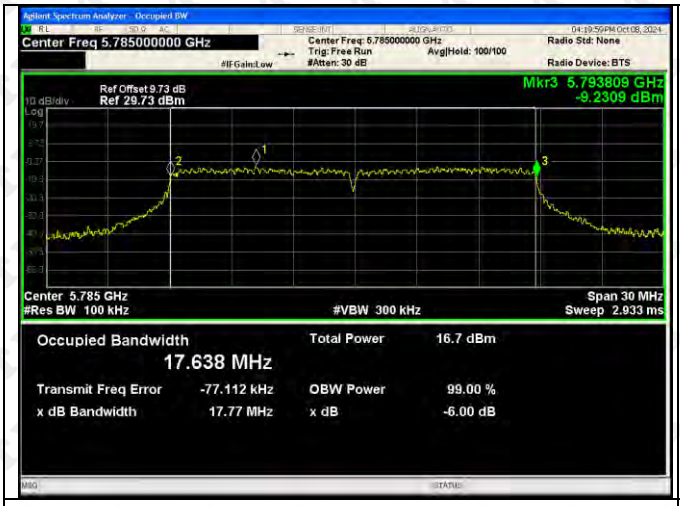
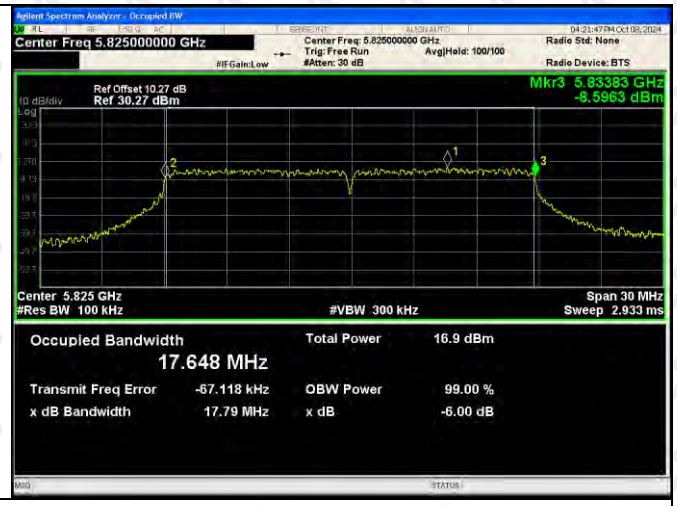


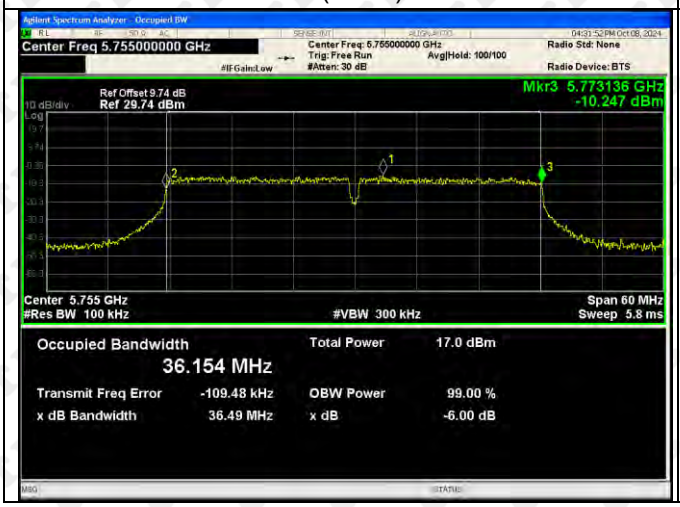
802.11n(HT20)-5825

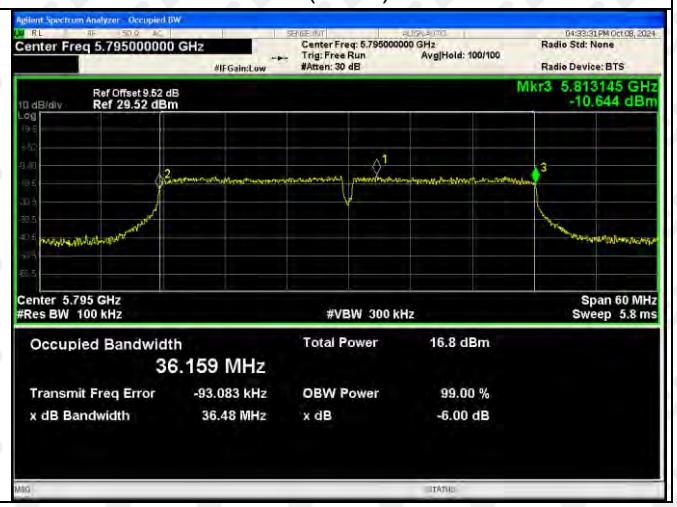


5802.11n(HT40)-5755



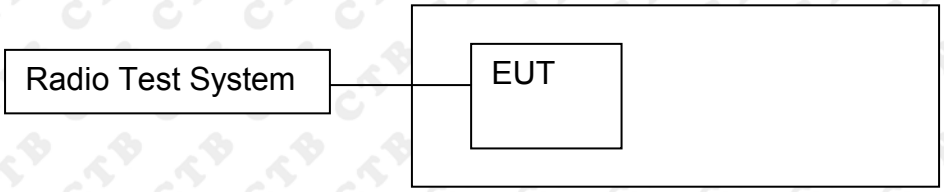
802.11n(HT40)-5795





11. POWER SPECTRAL DENSITY

11.1 Block Diagram Of Test Setup



11.2 Limit

(1) For the band 5.15-5.25 GHz.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

11.3 Test procedure

According to KDB789033 D02v02r01 sectionE, the following is the measurement procedure.

For devices operating in the bands 5.15−5.25 GHz, 5.25−5.35 GHz, and 5.47−5.725 GHz, the preceding procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in Section 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 RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference 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 ≥ 1/*T*, where *T* is defined in II.B.I.a).

b) Set VBW ≥ 3 RBW.

c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500 kHz/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 10 log (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 II.F.5.c) and II.F.5.d), since RBW=100 kHz is available on nearly all spectrum analyzers.

11.4 Test Result

ANT 1+ANT2

Test mode	Test Channel (MHz)	PSD [dBm/MHz] ANT 1	PSD [dBm/MHz] ANT 2	PSD [dBm/MHz] Total	Limit (dBm/MHz)	Result
802.11a	5180	2.517	2.155	/	11	Pass
	5200	2.76	2.323	/	11	Pass
	5240	2.943	2.849	/	11	Pass
802.11ac(VH20)	5180	1.747	1.768	4.768	11	Pass
	5200	2.45	2.075	5.277	11	Pass
	5240	3.139	2.847	6.006	11	Pass
802.11ac(VH40)	5190	-0.882	-1.472	1.843	11	Pass
	5230	-0.568	-0.59	2.431	11	Pass
802.11n(VH20)	5180	-2.219	-2.132	0.835	11	Pass
	5200	2.014	2	5.017	11	Pass
	5240	2.813	1.966	5.420	11	Pass
802.11n(VH40)	5190	3.198	2.501	5.874	11	Pass
	5230	-1.103	-1.486	1.720	11	Pass
802.11ac(VH80)	5230	-0.381	-0.229	2.706	11	Pass

Test mode	Test Channel (MHz)	PSD [dBm/MHz] ANT 1	PSD [dBm/MHz] ANT 2	PSD [dBm/MHz] Total	Limit (dBm)	Result
802.11a	5745	-3.587	-2.977	/	30	Pass
	5785	-4.208	-4.262	/	30	Pass
	5825	-2.843	-4.116	/	30	Pass
802.11ac(VH20)	5745	-3.474	-3.479	-0.466	30	Pass
	5785	-3.978	-3.902	-0.930	30	Pass
	5825	-3.157	-3.62	-0.372	30	Pass
802.11ac(VH40)	5755	-6.425	-6.919	-3.655	30	Pass
	5795	-8	-7.08	-4.505	30	Pass
802.11n(VH20)	5775	-7.792	-8.441	-5.094	30	Pass
	5745	-3.405	-3.496	-0.440	30	Pass
	5785	-3.823	-3.793	-0.798	30	Pass
802.11n(VH40)	5825	-3.427	-3.571	-0.488	30	Pass
	5755	-5.84	-6.353	-3.079	30	Pass
802.11ac(VH80)	5795	-6.848	-6.92	-3.874	30	Pass

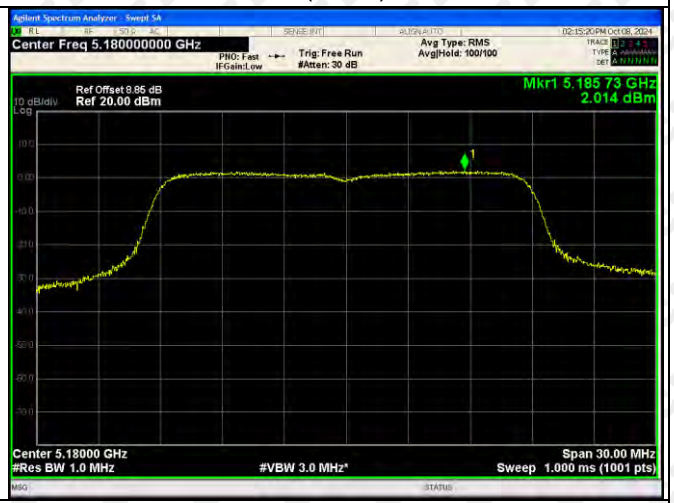
5180-5240MHz
ANT 1

802.11a-5180	802.11a-5200
	
802.11a-5240	802.11ac(VH20)-5180
	
802.11ac(VH20)-5200	802.11ac(VH20)-5240
	
802.11ac(VH40)-5190	802.11ac(VH40)-5230

802.11ac(VH80)-5210

802.11n(HT20)-5180

802.11n(HT20)-5200



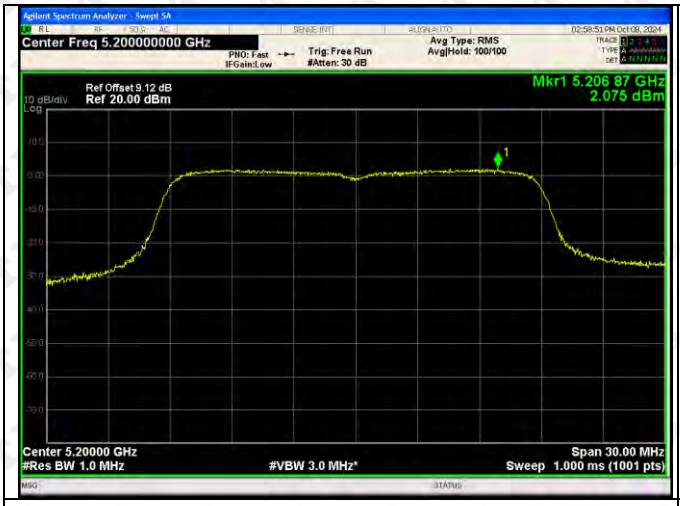
802.11n(HT20)-5240

802.11n(HT40)-5190

802.11n(HT40)-5230

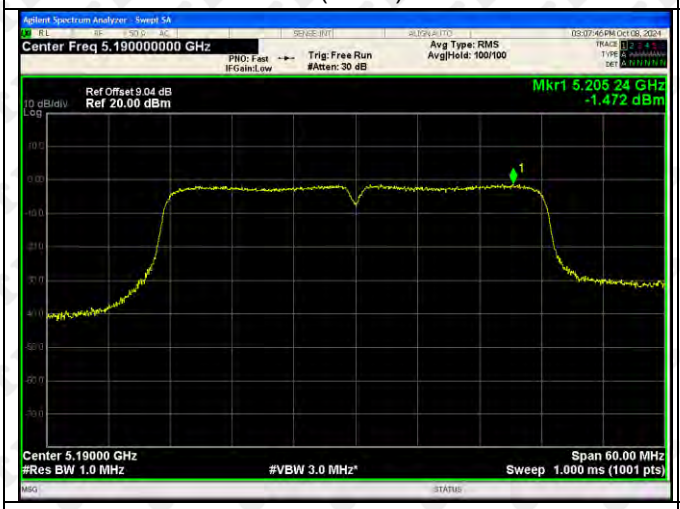
ANT2

802.11a-5180	802.11a-5200
	
802.11a-5240	802.11ac(VH20)-5180
	
802.11ac(VH20)-5200	802.11ac(VH20)-5240

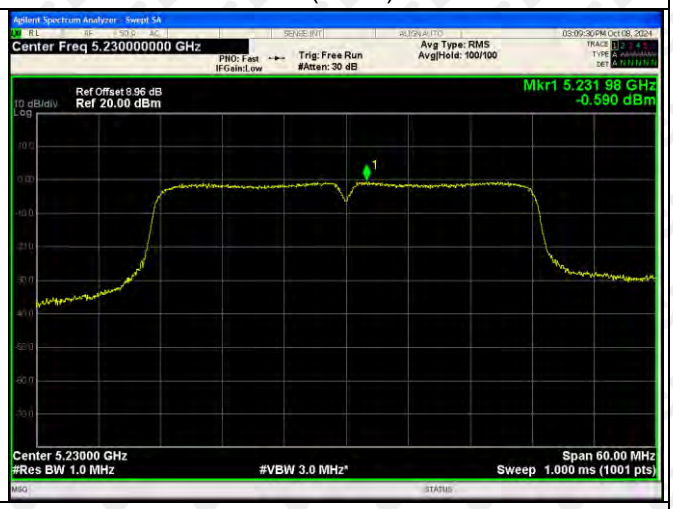


802.11ac(VH40)-5190

802.11ac(VH40)-5230



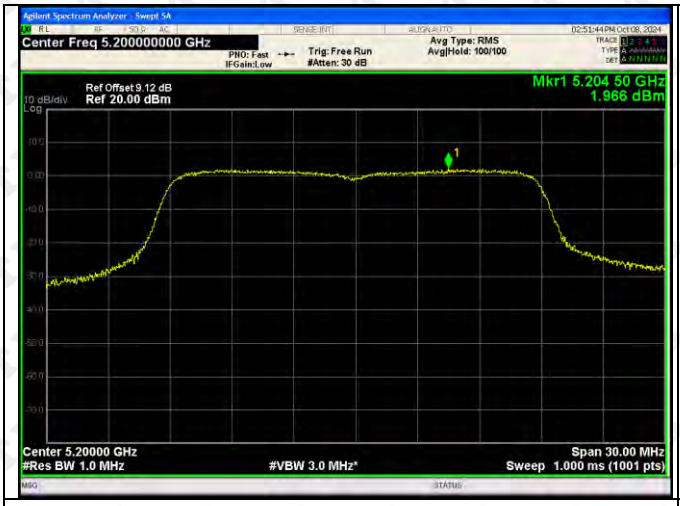
802.11ac(VH80)-5210



802.11n(HT20)-5180

802.11n(HT20)-5200

802.11n(HT20)-5240



802.11n(HT40)-5190

802.11n(HT40)-5230

5745-5825MHz
ANT 1:

802.11a-5745

802.11a-5785

802.11a-5825

802.11ac(VH20)-5745

802.11ac(VH20)-5785

802.11ac(VH20)-5825

802.11ac(VH40)-5755

802.11ac(VH40)-5795

802.11ac(VH80)-5775

802.11n(HT20)-5745

802.11n(HT20)-5785

802.11n(HT20)-5825

5802.11n(HT40)-5755

802.11n(HT40)-5795

ANT2:

802.11a-5745	802.11a-5785
	
802.11a-5825	802.11ac(VH20)-5745
	
802.11ac(VH20)-5785	802.11ac(VH20)-5825

802.11ac(VH40)-5755

802.11ac(VH40)-5795

802.11ac(VH80)-5775

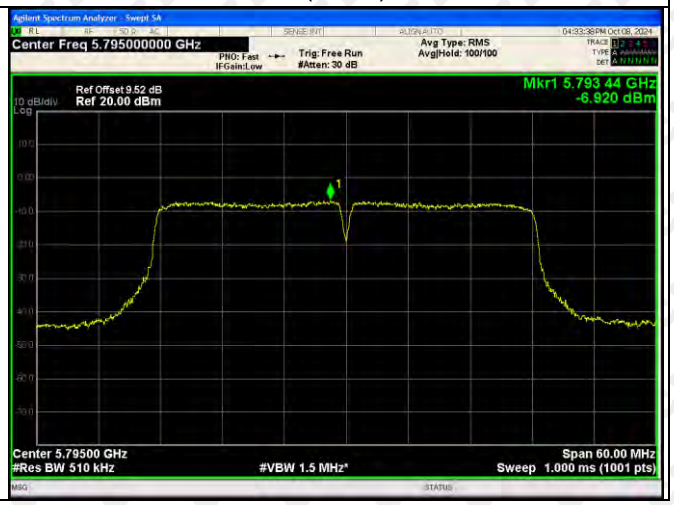
802.11n(HT20)-5745

802.11n(HT20)-5785

802.11n(HT20)-5825

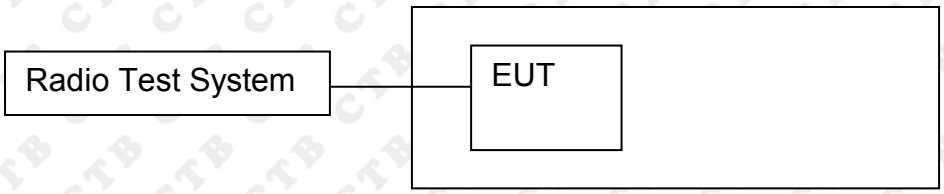
5802.11n(HT40)-5755

802.11n(HT40)-5795



12. FREQUENCY STABILITY

12.1 Block Diagram Of Test Setup



12.2 Limit

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

12.3 Test procedure

1. The EUT was placed inside temperature chamber and powered and powered by nominal DC voltage.

2. Set EUT as normal operation.

3. Turn the EUT on and couple its output to spectrum.

4. Turn the EUT off and set the chamber to the highest temperature specified.

5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT and measure the operating frequency.

6. Repeat step with the temperature chamber set to the lowest temperature.

12.4 Test Result

ANT1:
TX Frequency (5150-5250MHz)
Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5180MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120	5180.0712	5180	0.0712	13.7457
		V max (V)	132	5180.0100	5180	0.0100	1.9399
		V min (V)	108	5180.0746	5180	0.0746	14.3940
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5180MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	0	5180.0330	5180	0.0330	6.3729
		T (°C)	10	5180.0257	5180	0.0257	4.9570
		T (°C)	20	5180.0415	5180	0.0415	8.0070
		T (°C)	30	5180.0497	5180	0.0497	9.6013
		T (°C)	40	5180.0212	5180	0.0212	4.0853
Limits				±20ppm			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5200MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120	5200.0091	5200	0.0091	1.7513
		V max (V)	132	5200.0493	5200	0.0493	9.4862
		V min (V)	108	5200.0494	5200	0.0494	9.5005
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5200MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	0	5200.0288	5200	0.0288	5.5439
		T (°C)	10	5200.0287	5200	0.0287	5.5198
		T (°C)	20	5200.0125	5200	0.0125	2.3968
		T (°C)	30	5200.0225	5200	0.0225	4.3340
		T (°C)	40	5200.0205	5200	0.0205	3.9465
Limits				±20ppm			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5240MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120	5240.0533	5240	0.0533	10.1704
		V max (V)	132	5240.0114	5240	0.0114	2.1814
		V min (V)	108	5240.0127	5240	0.0127	2.4271
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5240MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	0	5240.0061	5240	0.0061	1.1549
		T (°C)	10	5240.0488	5240	0.0488	9.3136
		T (°C)	20	5240.0166	5240	0.0166	3.1670
		T (°C)	30	5240.0067	5240	0.0067	1.2762
		T (°C)	40	5240.0337	5240	0.0337	6.4239
Limits				±20ppm			
Result				Complies			

ANT2:
TX Frequency (5150-5250MHz)
Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5180MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120	5180.0190	5180	0.0190	3.6611
		V max (V)	132	5180.0653	5180	0.0653	12.6109
		V min (V)	108	5180.0561	5180	0.0561	10.8310
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5180MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	0	5180.0183	5180	0.0183	3.5316
		T (°C)	10	5180.0142	5180	0.0142	2.7399
		T (°C)	20	5180.0649	5180	0.0649	12.5193
		T (°C)	30	5180.0402	5180	0.0402	7.7562
		T (°C)	40	5180.0110	5180	0.0110	2.1139
Limits				±20ppm			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5200MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120	5200.0922	5200	0.0922	17.7268
		V max (V)	132	5200.0155	5200	0.0155	2.9741
		V min (V)	108	5200.0807	5200	0.0807	15.5232
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5200MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	0	5200.0888	5200	0.0888	17.0774
		T (°C)	10	5200.0645	5200	0.0645	12.4077
		T (°C)	20	5200.0396	5200	0.0396	7.6133
		T (°C)	30	5200.0885	5200	0.0885	17.0249
		T (°C)	40	5200.0883	5200	0.0883	16.9823
Limits				±20ppm			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5240MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120	5240.0279	5240	0.0279	5.3276
		V max (V)	132	5240.0927	5240	0.0927	17.6817
		V min (V)	108	5240.0209	5240	0.0209	3.9844
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5240MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	0	5240.0551	5240	0.0551	10.5191
		T (°C)	10	5240.0003	5240	0.0003	0.0615
		T (°C)	20	5240.0880	5240	0.0880	16.8026
		T (°C)	30	5240.0187	5240	0.0187	3.5737
		T (°C)	40	5240.0504	5240	0.0504	9.6190
Limits				±20ppm			
Result				Complies			

ANT1:
TX Frequency (5725-5850MHz)
Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5745MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120	5745.0731	5745	0.0731	12.7231
		V max (V)	132	5745.0688	5745	0.0688	11.9704
		V min (V)	108	5745.0731	5745	0.0731	12.7231
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5745MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	0	5745.0324	5745	0.0324	5.6374
		T (°C)	10	5745.0906	5745	0.0906	15.7727
		T (°C)	20	5745.0229	5745	0.0229	3.9934
		T (°C)	30	5745.0849	5745	0.0849	14.7784
		T (°C)	40	5745.0113	5745	0.0113	1.9706
Limits				±20ppm			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5785MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120	5785.0009	5785	0.0009	0.1523
		V max (V)	132	5785.0461	5785	0.0461	7.9681
		V min (V)	108	5785.0453	5785	0.0453	7.8387
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5785MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	0	5785.0832	5785	0.0832	14.3848
		T (°C)	10	5785.0066	5785	0.0066	1.1475
		T (°C)	20	5785.0889	5785	0.0889	15.3690
		T (°C)	30	5785.0665	5785	0.0665	11.4889
		T (°C)	40	5785.0664	5785	0.0664	11.4826
Limits				±20ppm			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5825MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120	5825.0272	5825	0.0272	4.6649
		V max (V)	132	5825.0414	5825	0.0414	7.1132
		V min (V)	108	5825.0455	5825	0.0455	7.8027
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5825MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	0	5825.0727	5825	0.0727	12.4816
		T (°C)	10	5825.0683	5825	0.0683	11.7288
		T (°C)	20	5825.0515	5825	0.0515	8.8482
		T (°C)	30	5825.0880	5825	0.0880	15.1068
		T (°C)	40	5825.0358	5825	0.0358	6.1461
Limits				±20ppm			
Result				Complies			

ANT2:
TX Frequency (5725-5850MHz)
Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5745MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120	5745.0684	5745	0.0684	11.9008
		V max (V)	132	5745.0600	5745	0.0600	10.4442
		V min (V)	108	5745.0524	5745	0.0524	9.1274
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5745MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	0	5745.0246	5745	0.0246	4.2816
		T (°C)	10	5745.0866	5745	0.0866	15.0818
		T (°C)	20	5745.0465	5745	0.0465	8.0997
		T (°C)	30	5745.0105	5745	0.0105	1.8226
		T (°C)	40	5745.0061	5745	0.0061	1.0660
Limits				±20ppm			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5785MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120	5785.0859	5785	0.0859	14.8460
		V max (V)	132	5785.0246	5785	0.0246	4.2496
		V min (V)	108	5785.0834	5785	0.0834	14.4141
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5785MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	0	5785.0391	5785	0.0391	6.7540
		T (°C)	10	5785.0129	5785	0.0129	2.2277
		T (°C)	20	5785.0835	5785	0.0835	14.4385
		T (°C)	30	5785.0124	5785	0.0124	2.1510
		T (°C)	40	5785.0587	5785	0.0587	10.1402
		T (°C)	50	5785.0563	5785	0.0563	9.7387
Limits				±20ppm			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5825MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120	5825.0935	5825	0.0935	16.0526
		V max (V)	132	5825.0884	5825	0.0884	15.1684
		V min (V)	108	5825.0124	5825	0.0124	2.1296
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5825MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	0	5825.0234	5825	0.0234	4.0192
		T (°C)	10	5825.0663	5825	0.0663	11.3825
		T (°C)	20	5825.0329	5825	0.0329	5.6406
		T (°C)	30	5825.0150	5825	0.0150	2.5776
		T (°C)	40	5825.0432	5825	0.0432	7.4182
Limits				±20ppm			
Result				Complies			

13. OPERATION IN THE ABSENCE OF INFORMATION TO THE TRANSMIT

13.1 Requirement

15.407(c) requirement:
The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signal ling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

13.2 Test Results

Operation in the absence of information to the transmit:

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling
signal of ASK message transmitting from remote device and verify whether it shall resend or
discontinue transmission. (manufacturer declare)

14. ANTENNA REQUIREMENT

15.203 requirement:
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.
15.247(b) (4) requirement:
The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

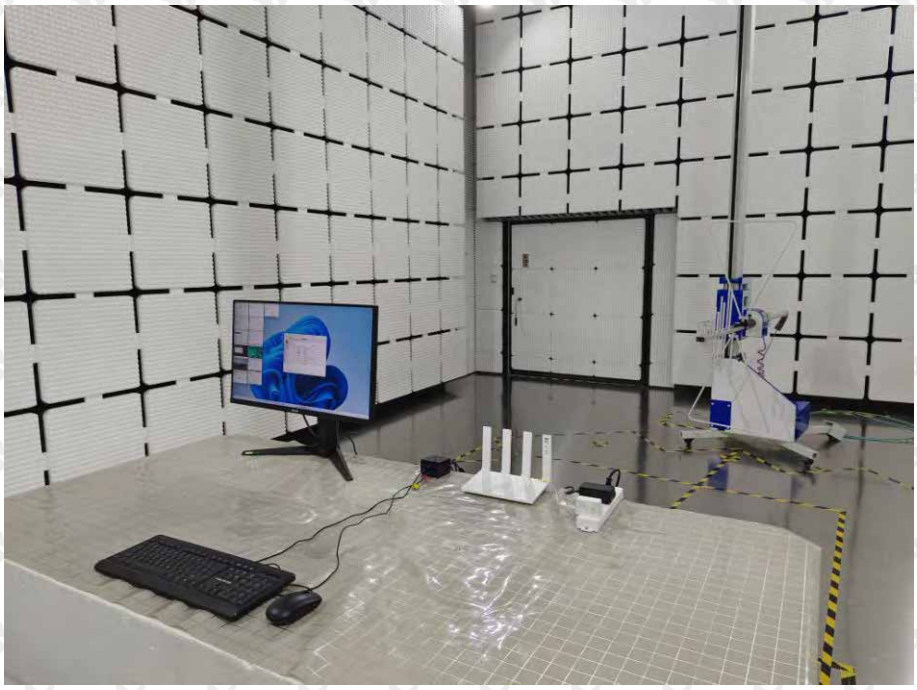
EUT Antenna:

The antenna is FPC antenna and no consideration of replacement. The best case gain of the antenna is WiFi (5.2G):Ant1: 1.06dBi, Ant2: 2.76dBi, WiFi (5.8G):Ant1: 1.48dBi, Ant2: 2.56dBi

15. EUT TEST SETUP PHOTOGRAPHS

Spurious emissions

Below 1GHz



Above 1GHz

Conducted Emission

※※※※※ END OF REPORT ※※※※※