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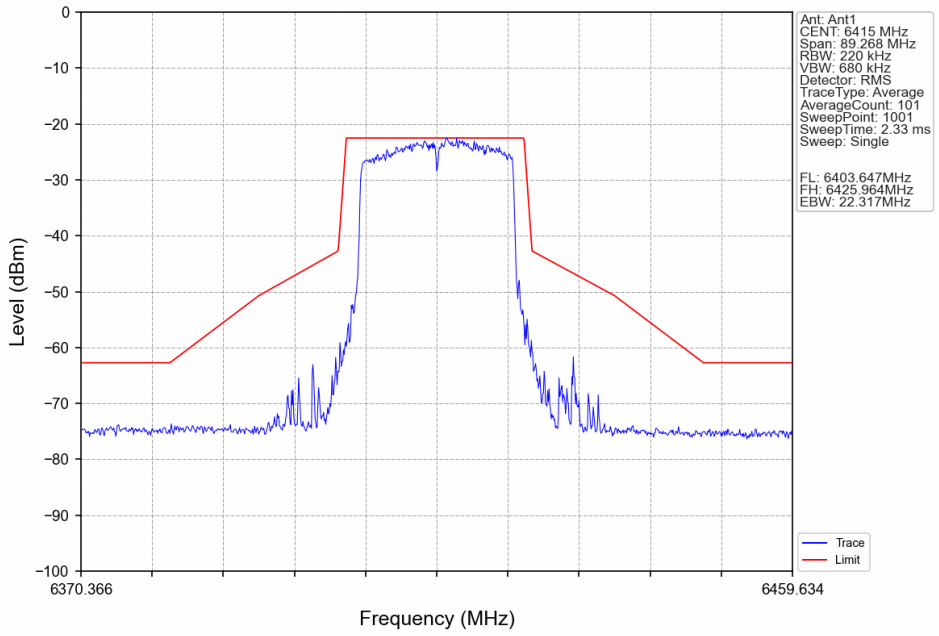

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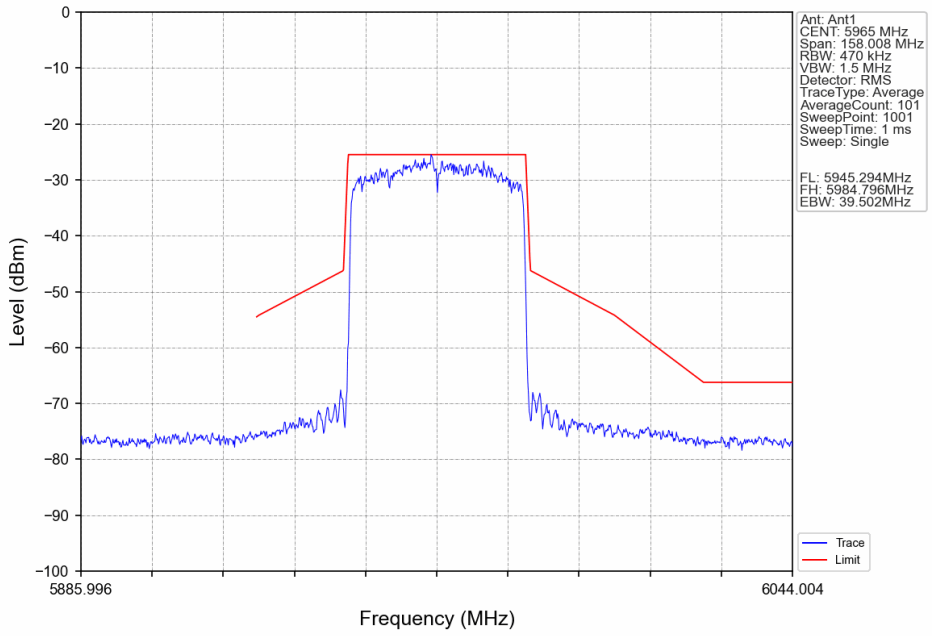

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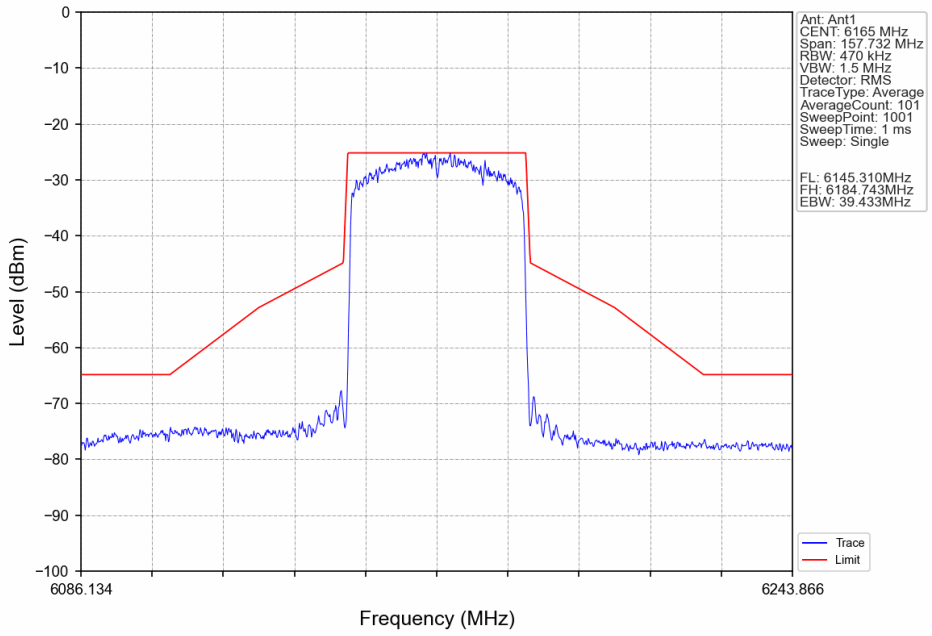

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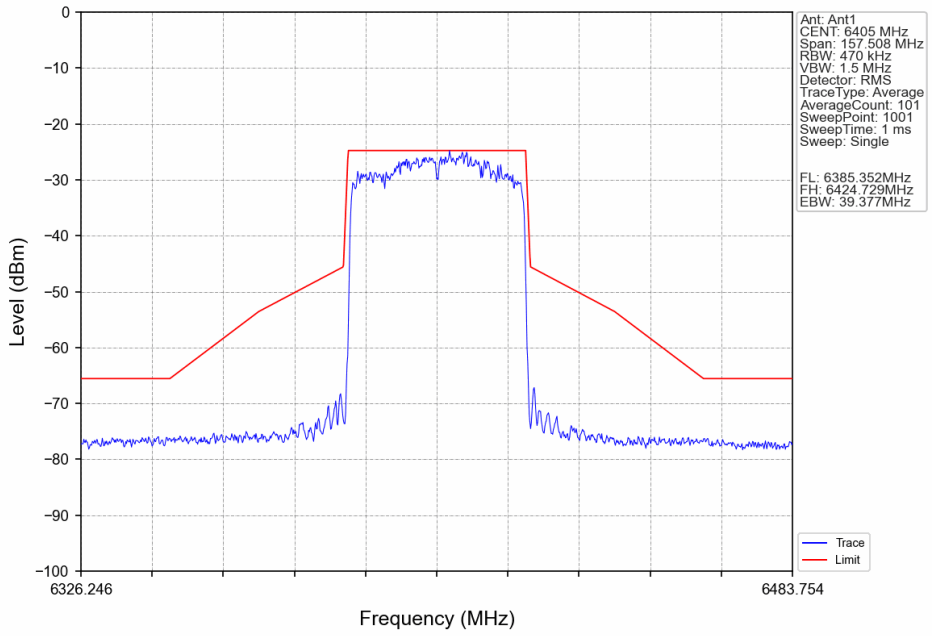

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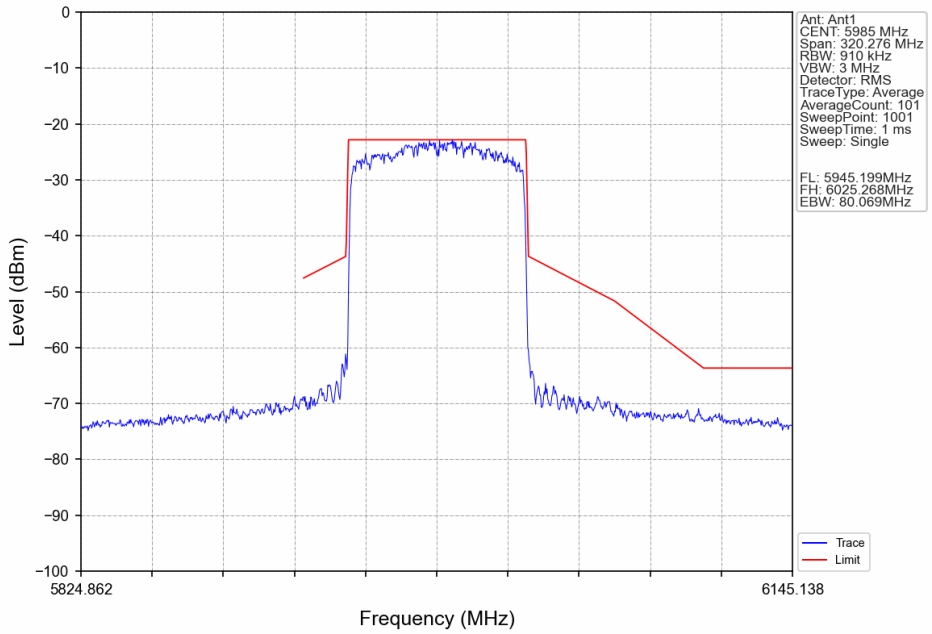

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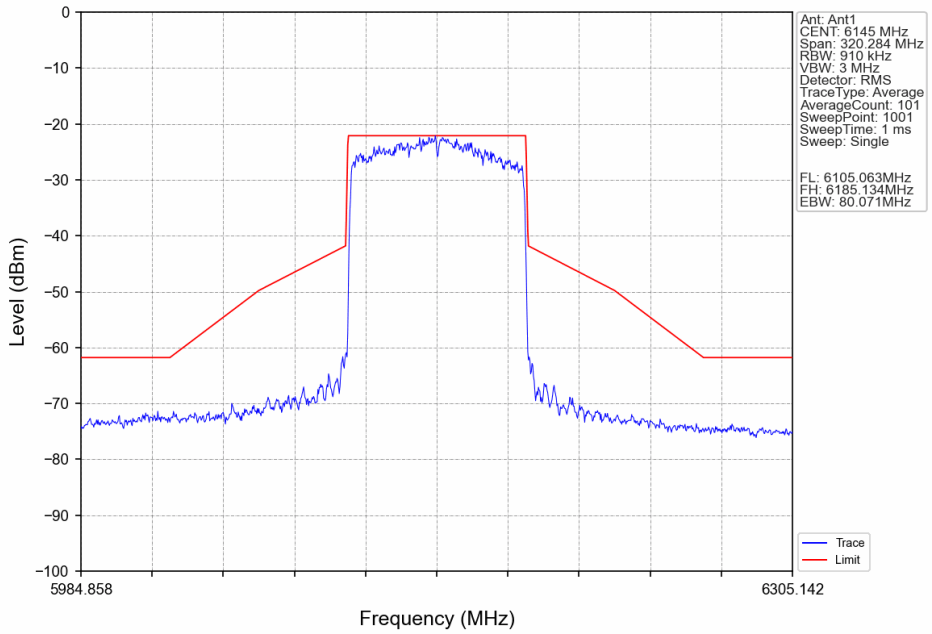
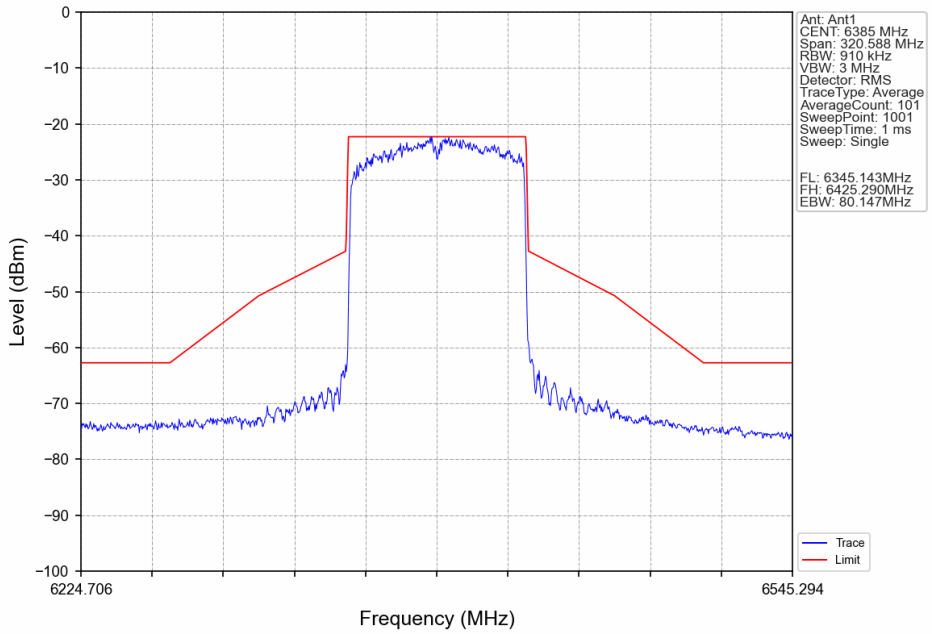


802.11ax(HEW80)_HCH_6385MHz_RU996_Left_Ant1_NTNV



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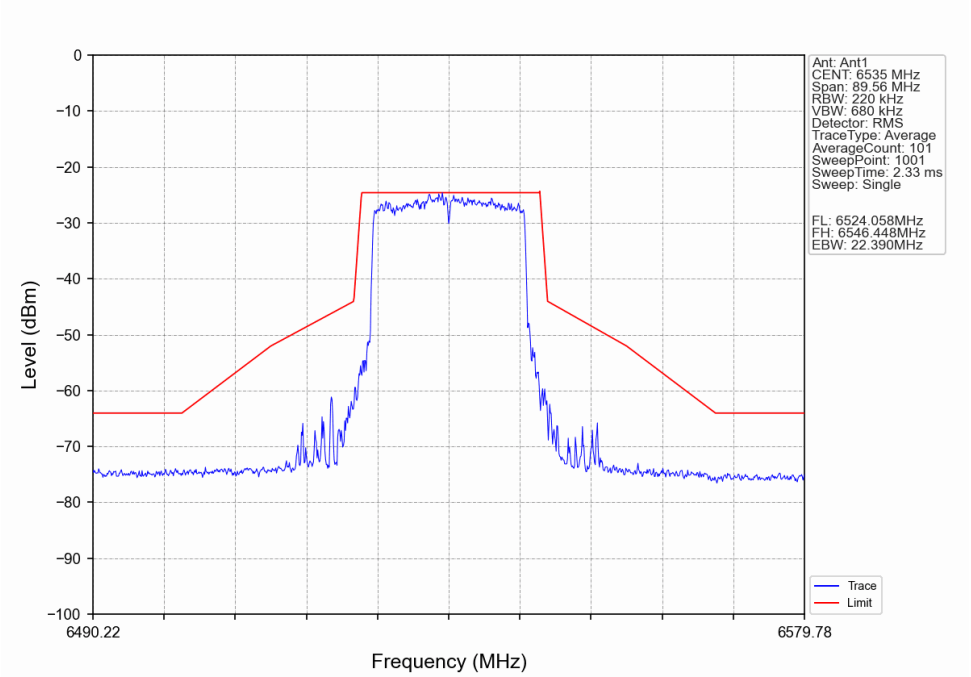
802.11ax(HEW20)_LCH_6535MHz_RU242_Left_Ant1_NTNV



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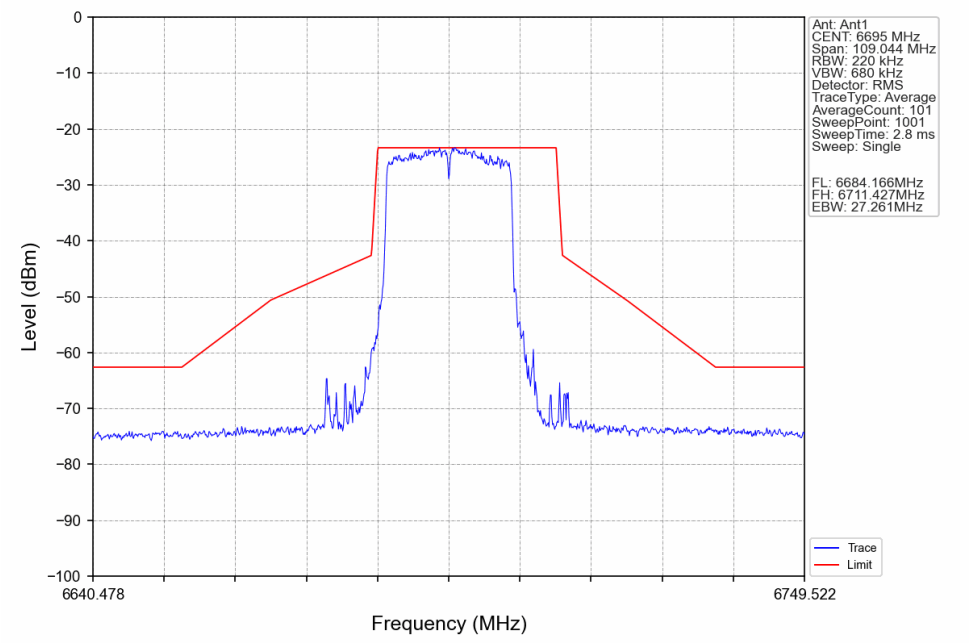

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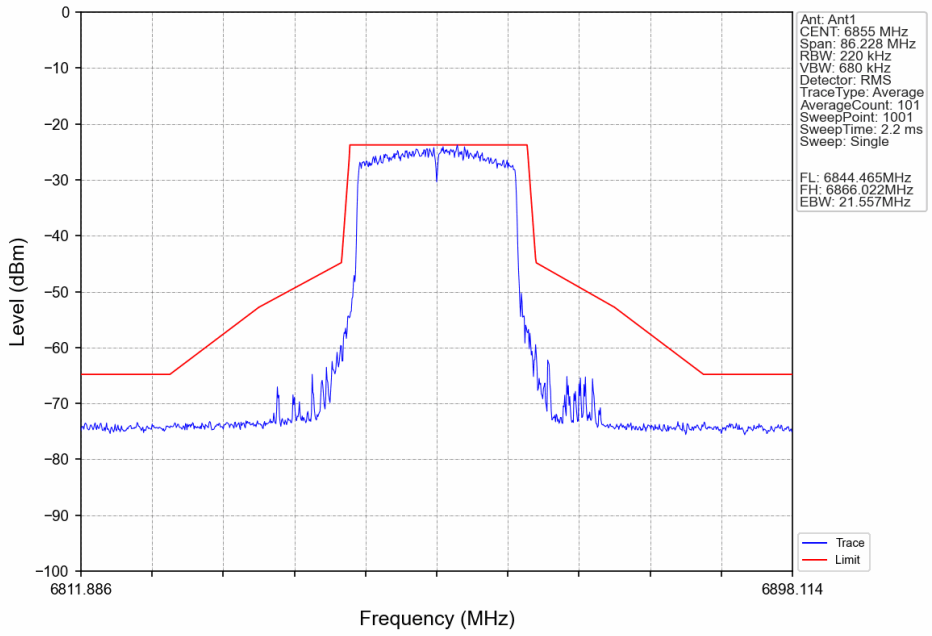

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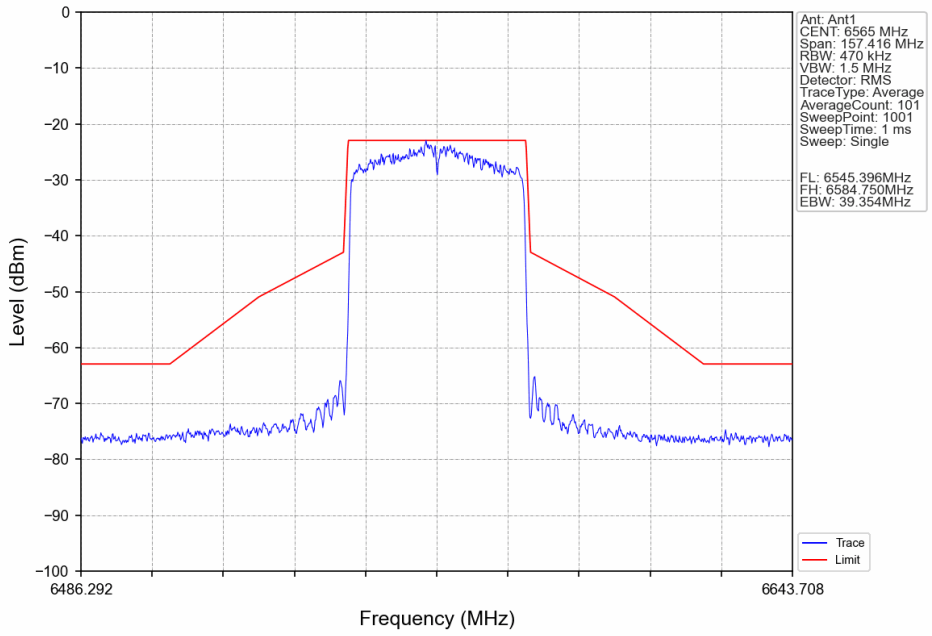
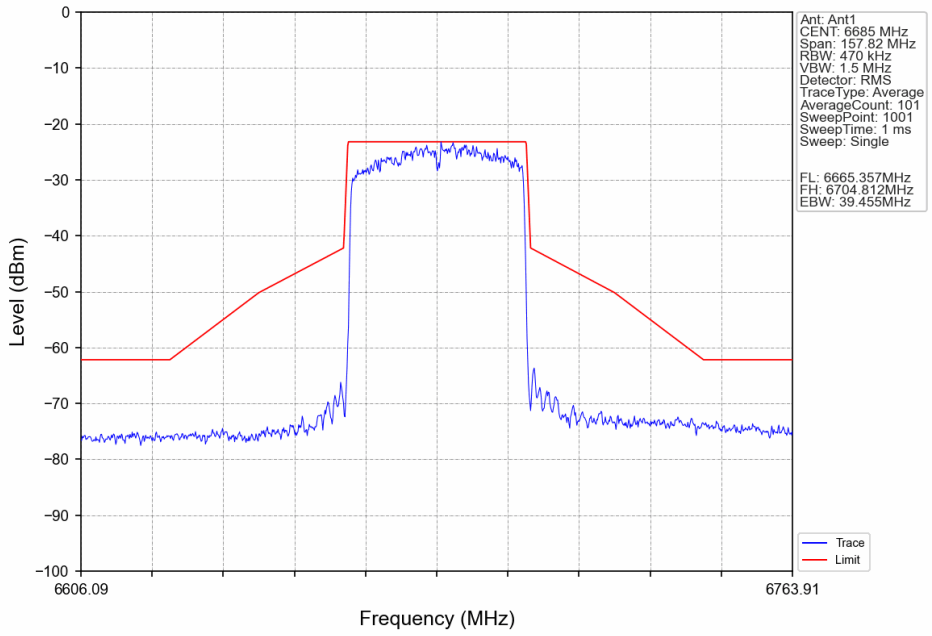
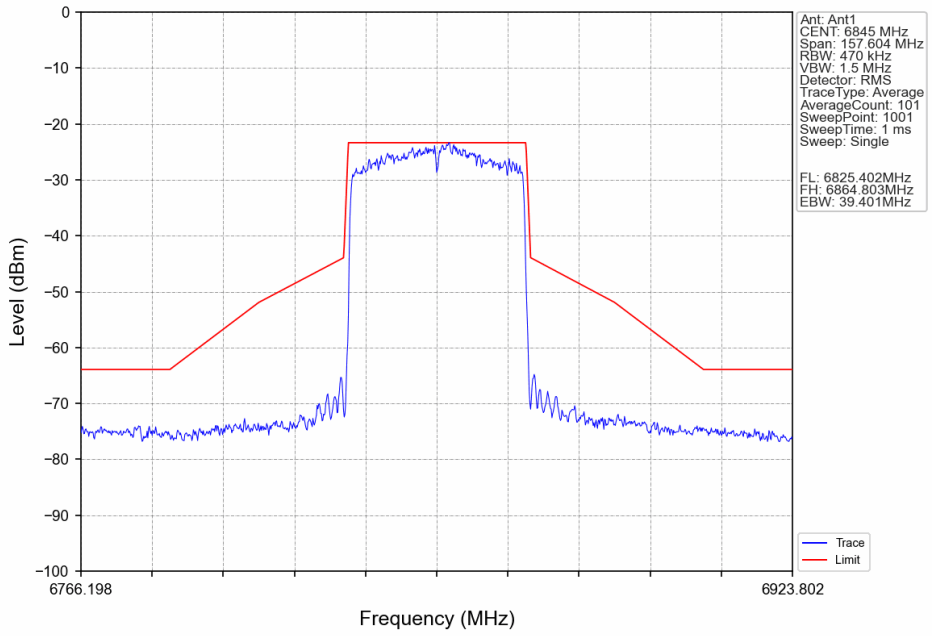


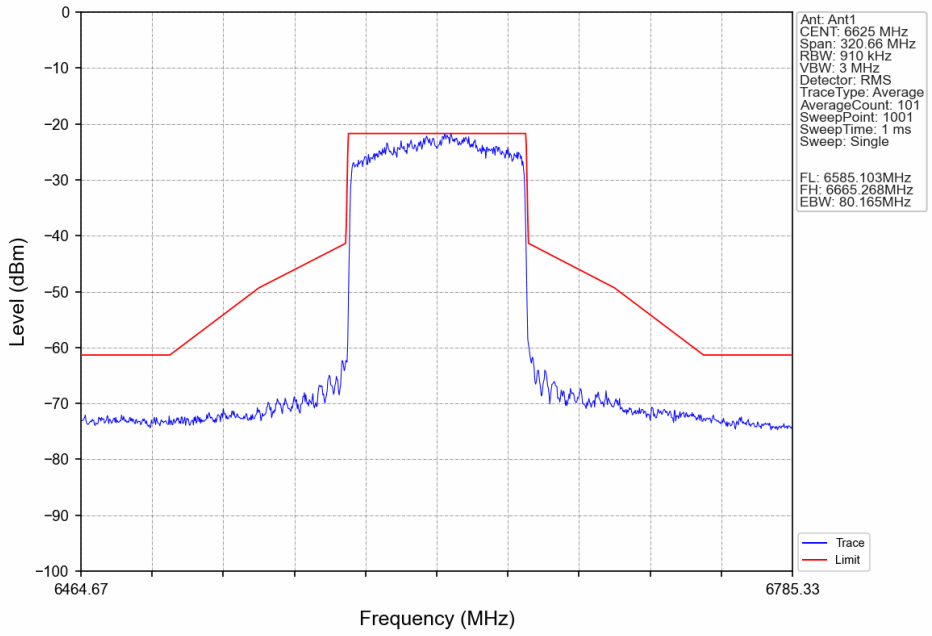
802.11ax(HEW40)_MCH_6685MHz_RU484_Left_Ant1_NTNV



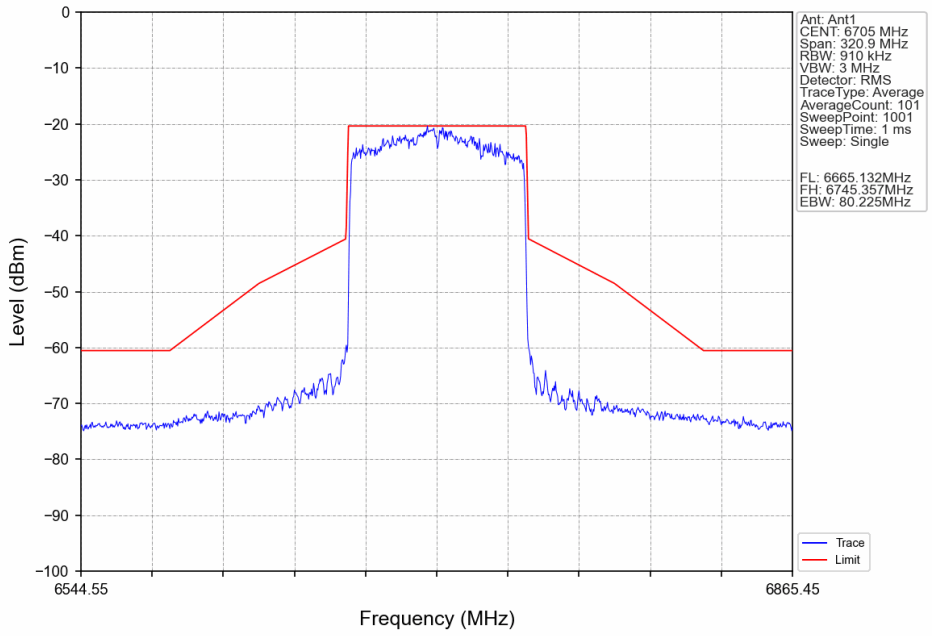
802.11ax(HEW40)_HCH_6845MHz_RU484_Left_Ant1_NTNV

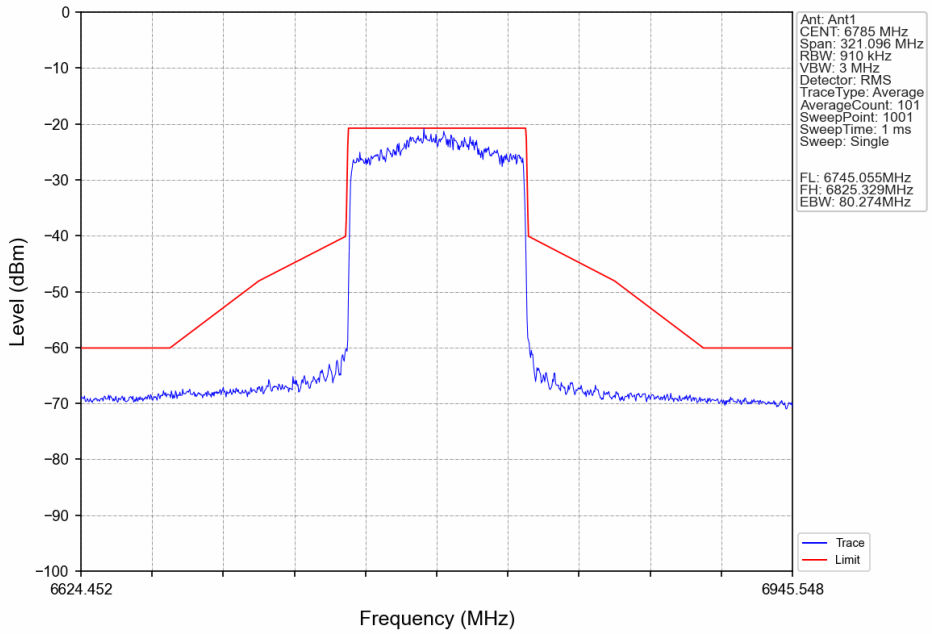


802.11ax(HEW80)_LCH_6625MHz_RU996_Left_Ant1_NTNV



802.11ax(HEW80)_MCH_6705MHz_RU996_Left_Ant1_NTNV



802.11ax(HEW80)_HCH_6785MHz_RU996_Left_Ant1_NTNV


Note:-Testing is carried out in all the modes but worst case data reported.

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12. AUTOMATICALLY DISCONTINUE TRANSMISSION

12.1 Limit of Automatically Discontinue Transmission

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 signaling 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 to describe how this requirement is met.

12.2 Test Result of Automatically Discontinue Transmission

During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

13. CONTENTION BASED PROTOCOL

13.1 limit

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel (in which incumbent signal is transmitted) and stay off the incumbent channel as long as detected radio frequency power is equal to or greater than the threshold (-62dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain.

To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.

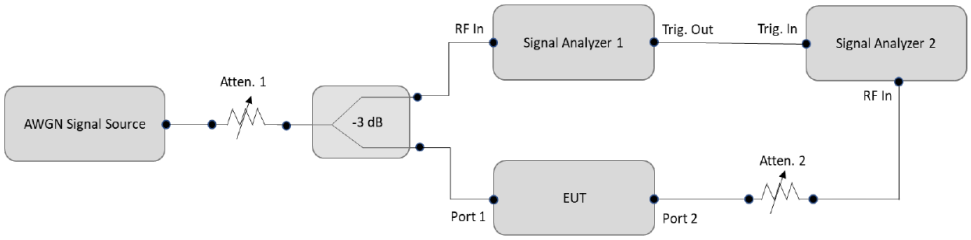
13.2 TEST PROCEDURE

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
3. Set the signal analyzer center frequency to the nominal EEUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2, as shown in Figure 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
4. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
5. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
6. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in Figure 2.
7. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
8. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
9. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
10. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.

13.3 DEVIATION FROM STANDARD

No deviation.

13.4 TEST SETUP



13.5 **TEST RESULTS**

Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent Freq. (MHz)	Measured Detection level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Limit (%)	Result
UNII Band 5	6175	20	6175	-62.36	100	-59.5	90	PASS
	6145	80	6110	-62.53	100	-59.5	90	PASS
			6145	-62.44	100	-59.5	90	PASS
			6180	-63.43	100	-59.5	90	PASS
UNII Band 7	6535	20	6535	-62.92	100	-59.5	90	PASS
	6705	80	6670	-64.64	100	-59.5	90	PASS
			6705	-62.59	100	-59.5	90	PASS
			6740	-62.73	100	-59.5	90	PASS

Band	Channel Freq. (MHz)	Channel BW (MHz)	AWGN Signal Freq. (MHz)	Threshold level (dBm)	EUT Starus
UNII Band 5	6175	20	6175	-63	Start transmitting
	6145	80	6110	-63	Start
			6145	-63	transmitting
			6180	-63	Start

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14. ANTENNA REQUIREMENTS

14.1. Limit

15.203 requirement: For intentional device, according to 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.

14.2. EUT ANTENNA

The antennas used for this product are PCB Antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 5.5dBi. and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

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Antenna	Brand	Model Name	Antenna Type	Connector	Support	Radio	Antenna Gain (dBi)
Antenna 0	VVDN	401-1-03363	PCB Antenna	UFL	5.955G to 7.125G	Radio2-6GHz	5.5
Antenna 1	VVDN	401-1-03363	PCB Antenna	UFL	5.955G to 7.125G	Radio2-6GHz	5.5

Annexure 1:

Frequency (MHz)	Mode	Data rate	Power setting	DG (dBi)	Antenna 1 (dBm)	Antenna 2 (dBm)	Total Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Result
5935	802.11ax_20 MHz (CDD Mode)	MCS0	17.5	5.5	17.79	16.85	20.36	25.86	30	Pass
6175	802.11ax_20 MHz (CDD Mode)	MCS0	17.5	5.5	17.23	16.96	20.11	25.61	30	Pass
6415	802.11ax_20 MHz (CDD Mode)	MCS0	17.5	5.5	17.93	17.13	20.56	26.06	30	Pass
5935	802.11be_20 MHz (CDD Mode)	MCS0	17.5	5.5	17.19	17.76	20.49	25.99	30	Pass
6175	802.11be_20 MHz (CDD Mode)	MCS0	17.5	5.5	17.13	17.47	20.31	25.81	30	Pass
6415	802.11be_20 MHz (CDD Mode)	MCS0	17.5	5.5	18.00	17.76	20.89	26.39	30	Pass
5965	802.11ax_40 MHz (CDD Mode)	MCS0	17	5.5	17.63	17.37	20.51	26.01	30	Pass
6165	802.11ax_40 MHz (CDD Mode)	MCS0	17	5.5	17.89	17.66	20.79	26.29	30	Pass
6405	802.11ax_40 MHz (CDD Mode)	MCS0	17	5.5	17.18	17.03	20.12	25.62	30	Pass
5965	802.11be_40 MHz (CDD Mode)	MCS0	17	5.5	16.61	16.73	19.68	25.18	30	Pass
6165	802.11be_40 MHz (CDD Mode)	MCS0	17	5.5	16.72	16.56	19.65	25.15	30	Pass
6405	802.11be_40 MHz (CDD Mode)	MCS0	17	5.5	16.92	17.23	20.09	25.59	30	Pass
5985	802.11ax_80 MHz (CDD Mode)	MCS0	16.5	5.5	16.49	16.24	19.38	24.88	30	Pass

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6145	802.11ax_80 MHz (CDD Mode)	MCS0	16.5	5.5	16.44	16.97	19.72	25.22	30	Pass
6385	802.11ax_80 MHz (CDD Mode)	MCS0	16.5	5.5	16.37	16.36	19.38	24.88	30	Pass
5985	802.11be_80 MHz (CDD Mode)	MCS0	16.5	5.5	17.27	17.37	20.33	25.83	30	Pass
6145	802.11be_80 MHz (CDD Mode)	MCS0	16.5	5.5	16.44	17.09	19.79	25.29	30	Pass
6385	802.11be_80 MHz (CDD Mode)	MCS0	16.5	5.5	16.42	16.80	19.62	25.12	30	Pass
6025	802.11ax_160 MHz (CDD Mode)	MCS0	15.5	5.5	15.66	15.64	18.66	24.16	30	Pass
6185	802.11ax_160 MHz (CDD Mode)	MCS0	15.5	5.5	16.07	15.51	18.81	24.31	30	Pass
6345	802.11ax_160 MHz (CDD Mode)	MCS0	15.5	5.5	16.51	15.20	18.91	24.41	30	Pass
6025	802.11be_160 MHz (CDD Mode)	MCS0	15.5	5.5	15.88	14.86	18.41	23.91	30	Pass
6185	802.11be_160 MHz (CDD Mode)	MCS0	15.5	5.5	15.08	15.80	18.47	23.97	30	Pass
6345	802.11be_160 MHz (CDD Mode)	MCS0	15.5	5.5	15.70	15.40	18.56	24.06	30	Pass
6105	802.11be_320 MHz (CDD Mode)	MCS0	14.5	5.5	14.67	15.26	17.99	23.49	30	Pass
6265	802.11be_320 MHz (CDD Mode)	MCS0	14.5	5.5	14.06	14.93	17.53	23.03	30	Pass
Note: In Beamforming Mode, Directional gain will be antenna gain +3.01 dBi (I have used formula 10log(No. of antenna)										
5935	802.11ax_20 MHz (Beamforming Mode)	MCS0	17.5	8.51	17.79	16.85	20.36	28.87	30	Pass
6175	802.11ax_20 MHz (Beamforming	MCS0	17.5	8.51	17.23	16.96	20.11	28.62	30	Pass

	Mode)									
6415	802.11ax_20 MHz (Beamforming Mode)	MCS0	17.5	8.51	17.93	17.13	20.56	29.07	30	Pass
5935	802.11be_20MHz (Beamforming Mode)	MCS0	17.5	8.51	17.19	17.76	20.49	29.00	30	Pass
6175	802.11be_20MHz (Beamforming Mode)	MCS0	17.5	8.51	17.13	17.47	20.31	28.82	30	Pass
6415	802.11be_20MHz (Beamforming Mode)	MCS0	17.5	8.51	18.00	17.76	20.89	29.40	30	Pass
5965	802.11ax_40 MHz (Beamforming Mode)	MCS0	17	8.51	17.63	17.37	20.51	29.02	30	Pass
6165	802.11ax_40 MHz (Beamforming Mode)	MCS0	17	8.51	17.89	17.66	20.79	29.30	30	Pass
6405	802.11ax_40 MHz (Beamforming Mode)	MCS0	17	8.51	17.18	17.03	20.12	28.63	30	Pass
5965	802.11be_40 MHz (Beamforming Mode)	MCS0	17	8.51	16.61	16.73	19.68	28.19	30	Pass
6165	802.11be_40 MHz (Beamforming Mode)	MCS0	17	8.51	16.72	16.56	19.65	28.16	30	Pass
6405	802.11be_40 MHz (Beamforming Mode)	MCS0	17	8.51	16.92	17.23	20.09	28.60	30	Pass
5985	802.11ax_80 MHz (Beamforming Mode)	MCS0	16.5	8.51	16.49	16.24	19.38	27.89	30	Pass
6145	802.11ax_80 MHz (Beamforming Mode)	MCS0	16.5	8.51	16.44	16.97	19.72	28.23	30	Pass
6385	802.11ax_80 MHz (Beamforming Mode)	MCS0	16.5	8.51	16.37	16.36	19.38	27.89	30	Pass
5985	802.11be_80 MHz (Beamforming Mode)	MCS0	16.5	8.51	17.27	17.37	20.33	28.84	30	Pass
6145	802.11be_80 MHz (Beamforming Mode)	MCS0	16.5	8.51	16.44	17.09	19.79	28.30	30	Pass
6385	802.11be_80 MHz (Beamforming Mode)	MCS0	16.5	8.51	16.42	16.80	19.62	28.13	30	Pass
6025	802.11ax_160 MHz	MCS0	15.5	8.51	15.66	15.64	18.66	27.17	30	Pass

	(Beamforming Mode)									
6185	802.11ax_160 MHz (Beamforming Mode)	MCS0	15.5	8.51	16.07	15.51	18.81	27.32	30	Pass
6345	802.11ax_160 MHz (Beamforming Mode)	MCS0	15.5	8.51	16.51	15.20	18.91	27.42	30	Pass
6025	802.11be_160 MHz (Beamforming Mode)	MCS0	15.5	8.51	15.88	14.86	18.41	26.92	30	Pass
6185	802.11be_160 MHz (Beamforming Mode)	MCS0	15.5	8.51	15.08	15.80	18.47	26.98	30	Pass
6345	802.11be_160 MHz (Beamforming Mode)	MCS0	15.5	8.51	15.70	15.40	18.56	27.07	30	Pass
6105	802.11be_320 MHz (Beamforming Mode)	MCS0	14.5	8.51	14.67	15.26	17.99	26.50	30	Pass
6265	802.11be_320 MHz (Beamforming Mode)	MCS0	14.5	8.51	14.06	14.93	17.53	26.04	30	Pass

Frequency (MHz)	Mode	Data rate	Power setting	DG (dBi)	Antenna 1 (dBm)	Antenna 2 (dBm)	Total Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Result
6435	802.11ax_20 MHz (CDD Mode)	MCS0	17.5	5.5	17.83	17.39	20.63	26.13	30	Pass
6475	802.11ax_20 MHz (CDD Mode)	MCS0	17.5	5.5	14.75	14.25	17.52	23.02	30	Pass
6515	802.11ax_20 MHz (CDD Mode)	MCS0	17.5	5.5	18.06	17.25	20.68	26.18	30	Pass
6435	802.11be_20 MHz (CDD Mode)	MCS0	17.5	5.5	17.61	17.48	20.56	26.06	30	Pass
6475	802.11be_20 MHz (CDD Mode)	MCS0	17.5	5.5	17.74	17.51	20.64	26.14	30	Pass
6515	802.11be_20 MHz (CDD Mode)	MCS0	17.5	5.5	17.75	17.58	20.68	26.18	30	Pass
6445	802.11ax_40 MHz (CDD Mode)	MCS0	17	5.5	16.89	16.76	19.84	25.34	30	Pass
6485	802.11ax_40 MHz (CDD Mode)	MCS0	17	5.5	17.63	16.98	20.33	25.83	30	Pass
6445	802.11be_40 MHz (CDD Mode)	MCS0	17	5.5	16.71	16.99	19.86	25.36	30	Pass
6485	802.11be_40 MHz (CDD Mode)	MCS0	17	5.5	16.57	16.83	19.71	25.21	30	Pass
6465	802.11ax_80 MHz (CDD Mode)	MCS0	16.5	5.5	17.17	17.25	20.22	25.72	30	Pass
6465	802.11be_80 MHz (CDD Mode)	MCS0	16.5	5.5	16.05	16.61	19.35	24.85	30	Pass
6505	802.11ax_160 MHz (CDD Mode)	MCS0	15.5	5.5	16.56	16.59	19.59	25.09	30	Pass
6505	802.11be_160 MHz (CDD Mode)	MCS0	15.5	5.5	16.61	16.50	19.57	25.07	30	Pass
6425	802.11be_320 MHz (CDD Mode)	MCS0	14.5	5.5	15.02	15.52	18.29	23.79	30	Pass
Note: In Beamforming Mode, Directional gain will be antenna gain +3.01 dBi (I have used formula 10log(No. of antenna)										
6435	802.11ax_20 MHz (Beamforming Mode)	MCS0	17.5	8.51	17.83	17.39	20.63	29.14	30	Pass
6475	802.11ax_20 MHz (Beamforming Mode)	MCS0	17.5	8.51	14.75	14.25	17.52	26.03	30	Pass
6515	802.11ax_20 MHz (Beamforming Mode)	MCS0	17.5	8.51	18.06	17.25	20.68	29.19	30	Pass
6435	802.11be_20MHz	MCS0	17.5	8.51	17.61	17.48	20.56	29.0	30	Pass

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	(Beamforming Mode)							7		
6475	802.11be_20MHz (Beamforming Mode)	MCS0	17.5	8.51	17.74	17.51	20.64	29.15	30	Pass
6515	802.11be_20MHz (Beamforming Mode)	MCS0	17.5	8.51	17.75	17.58	20.68	29.19	30	Pass
6445	802.11ax_40 MHz (Beamforming Mode)	MCS0	17	8.51	16.89	16.76	19.84	28.35	30	Pass
6485	802.11ax_40 MHz (Beamforming Mode)	MCS0	17	8.51	17.63	16.98	20.33	28.84	30	Pass
6445	802.11be_40 MHz (Beamforming Mode)	MCS0	17	8.51	16.71	16.99	19.86	28.37	30	Pass
6485	802.11be_40 MHz (Beamforming Mode)	MCS0	17	8.51	16.57	16.83	19.71	28.22	30	Pass
6465	802.11ax_80 MHz (Beamforming Mode)	MCS0	16.5	8.51	17.17	17.25	20.22	28.73	30	Pass
6465	802.11be_80 MHz (Beamforming Mode)	MCS0	16.5	8.51	16.05	16.61	19.35	27.86	30	Pass
6505	802.11ax_160 MHz (Beamforming Mode)	MCS0	15.5	8.51	16.56	16.59	19.59	28.10	30	Pass
6505	802.11be_160 MHz (Beamforming Mode)	MCS0	15.5	8.51	16.61	16.50	19.57	28.08	30	Pass
6425	802.11be_320 MHz (Beamforming Mode)	MCS0	14.5	8.51	15.02	15.52	18.29	26.80	30	Pass

Frequency (MHz)	Mode	Data rate	Power setting	DG (dBi)	Antenna 1 (dBm)	Antenna 2 (dBm)	Total Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Result
6535	802.11ax_20 MHz (CDD Mode)	MCS0	17.5	5.5	17.6	17.60	20.61	26.11	30	Pass
6715	802.11ax_20 MHz (CDD Mode)	MCS0	17.5	5.5	17.89	17.49	20.70	26.20	30	Pass
6855	802.11ax_20 MHz (CDD Mode)	MCS0	17.5	5.5	17.3	17.09	20.21	25.71	30	Pass
6535	802.11be_20 MHz (CDD Mode)	MCS0	17.5	5.5	17.8	17.55	20.69	26.19	30	Pass
6715	802.11be_20 MHz (CDD Mode)	MCS0	17.5	5.5	17.6	17.71	20.67	26.17	30	Pass
6855	802.11be_20 MHz (CDD Mode)	MCS0	17.5	5.5	17.6	17.23	20.43	25.93	30	Pass
6565	802.11ax_40 MHz (CDD Mode)	MCS0	17	5.5	16.07	16.84	19.48	24.98	30	Pass
6725	802.11ax_40 MHz (CDD Mode)	MCS0	17	5.5	16.02	16.41	19.23	24.73	30	Pass
6845	802.11ax_40 MHz (CDD Mode)	MCS0	17	5.5	16.72	16.62	19.68	25.18	30	Pass
6565	802.11be_40 MHz (CDD Mode)	MCS0	17	5.5	16.87	17.08	19.99	25.49	30	Pass
6725	802.11be_40 MHz (CDD Mode)	MCS0	17	5.5	16.98	17.28	20.14	25.64	30	Pass
6845	802.11be_40 MHz (CDD Mode)	MCS0	17	5.5	16.47	16.63	19.56	25.06	30	Pass
6625	802.11ax_80 MHz (CDD Mode)	MCS0	16.5	5.5	16.68	17.14	19.93	25.43	30	Pass
6705	802.11ax_80 MHz (CDD Mode)	MCS0	16.5	5.5	16.98	16.68	19.84	25.34	30	Pass
6785	802.11ax_80 MHz (CDD Mode)	MCS0	16.5	5.5	16.89	17.42	20.17	25.67	30	Pass

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6625	802.11be_80 MHz (CDD Mode)	MCS0	16.5	5.5	16.93	17.35	20.16	25.66	30	Pass
6705	802.11be_80 MHz (CDD Mode)	MCS0	16.5	5.5	16.13	16.67	19.42	24.92	30	Pass
6785	802.11be_80 MHz (CDD Mode)	MCS0	16.5	5.5	15.86	16.37	19.13	24.63	30	Pass
6665	802.11ax_160 MHz (CDD Mode)	MCS0	15.5	5.5	15.93	15.43	18.70	24.20	30	Pass
6665	802.11be_160 MHz (CDD Mode)	MCS0	15.5	5.5	15.09	16.17	18.67	24.17	30	Pass
6525	802.11ax_40 MHz (CDD Mode)	MCS0	17	5.5	16.91	16.59	19.76	25.26	30	Pass
6525	802.11be_40 MHz (CDD Mode)	MCS0	17	5.5	16.78	16.64	19.72	25.22	30	Pass
6545	802.11ax_80 MHz (CDD Mode)	MCS0	16.5	5.5	16.02	16.12	19.08	24.58	30	Pass
6545	802.11be_80 MHz (CDD Mode)	MCS0	16.5	5.5	16.12	16.08	19.11	24.61	30	Pass
6865	802.11ax_80 MHz (CDD Mode)	MCS0	16.5	5.5	16.22	16.12	19.18	24.68	30	Pass
6865	802.11be_80 MHz (CDD Mode)	MCS0	16.5	5.5	16.32	16.11	19.23	24.73	30	Pass
6825	802.11ax_160 MHz (CDD Mode)	MCS0	15.5	5.5	14.3	14.23	17.28	22.78	30	Pass
6825	802.11be_160 MHz (CDD Mode)	MCS0	15.5	5.5	14.33	14.10	17.23	22.73	30	Pass
6585	802.11be_320 MHz (CDD Mode)	MCS0	14.5	5.5	15.25	15.30	18.29	23.79	30	Pass
6745	802.11be_320 MHz (CDD Mode)	MCS0	14.5	5.5	15.03	15.10	18.08	23.58	30	Pass

Note: In Beamforming Mode, Directional gain will be antenna gain +3.01 dBi (I have used formula 10log(No. of antenna)										
6535	802.11ax_20 MHz (Beamforming Mode)	MCS0	17.5	8.51	17.6	17.60	20.61	29.12	30	Pass

6715	802.11ax_20 MHz (Beamforming Mode)	MCS0	17.5	8.51	17.89	17.49	20.70	29.21	30	Pass
6855	802.11ax_20 MHz (Beamforming Mode)	MCS0	17.5	8.51	17.3	17.09	20.21	28.72	30	Pass
6535	802.11be_20MHz (Beamforming Mode)	MCS0	17.5	8.51	17.8	17.55	20.69	29.20	30	Pass
6715	802.11be_20MHz (Beamforming Mode)	MCS0	17.5	8.51	17.6	17.71	20.67	29.18	30	Pass
6855	802.11be_20MHz (Beamforming Mode)	MCS0	17.5	8.51	17.6	17.23	20.43	28.94	30	Pass
6565	802.11ax_40 MHz (Beamforming Mode)	MCS0	17	8.51	16.07	16.84	19.48	27.99	30	Pass
6725	802.11ax_40 MHz (Beamforming Mode)	MCS0	17	8.51	16.02	16.41	19.23	27.74	30	Pass
6845	802.11ax_40 MHz (Beamforming Mode)	MCS0	17	8.51	16.72	16.62	19.68	28.19	30	Pass
6565	802.11be_40 MHz (Beamforming Mode)	MCS0	17	8.51	16.87	17.08	19.99	28.50	30	Pass
6725	802.11be_40 MHz (Beamforming Mode)	MCS0	17	8.51	16.98	17.28	20.14	28.65	30	Pass
6845	802.11be_40 MHz (Beamforming Mode)	MCS0	17	8.51	16.47	16.63	19.56	28.07	30	Pass
6625	802.11ax_80 MHz (Beamforming Mode)	MCS0	16.5	8.51	16.68	17.14	19.93	28.44	30	Pass
6705	802.11ax_80 MHz (Beamforming Mode)	MCS0	16.5	8.51	16.98	16.68	19.84	28.35	30	Pass
6785	802.11ax_80 MHz	MCS0	16.5	8.51	16.89	17.42	20.17	28.68	30	Pass

	(Beamforming Mode)									
6625	802.11be_80 MHz (Beamforming Mode)	MCS0	16.5	8.51	16.93	17.35	20.16	28.67	30	Pass
6705	802.11be_80 MHz (Beamforming Mode)	MCS0	16.5	8.51	16.13	16.67	19.42	27.93	30	Pass
6785	802.11be_80 MHz (Beamforming Mode)	MCS0	16.5	8.51	15.86	16.37	19.13	27.64	30	Pass
6665	802.11ax_160 MHz (Beamforming Mode)	MCS0	15.5	8.51	15.93	15.43	18.70	27.21	30	Pass
6665	802.11be_160 MHz (Beamforming Mode)	MCS0	15.5	8.51	15.09	16.17	18.67	27.18	30	Pass
6525	802.11n_40 MHz (Beamforming Mode)	MCS0	17	8.51	16.9	16.83	19.88	28.39	30	Pass
6525	802.11ac_40 MHz (Beamforming Mode)	MCS0	17	8.51	16.77	16.78	19.79	28.30	30	Pass
6525	802.11ax_40 MHz (Beamforming Mode)	MCS0	17	8.51	16.91	16.59	19.76	28.27	30	Pass
6525	802.11be_40 MHz (Beamforming Mode)	MCS0	17	8.51	16.78	16.64	19.72	28.23	30	Pass
6545	802.11ac_80 MHz (Beamforming Mode)	MCS0	16.5	8.51	16.16	16.01	19.10	27.61	30	Pass
6545	802.11ax_80 MHz (Beamforming Mode)	MCS0	16.5	8.51	16.15	16.04	19.11	27.62	30	Pass
6545	802.11be_80 MHz (Beamforming Mode)	MCS0	16.5	8.51	16.14	16.08	19.12	27.63	30	Pass
6865	802.11ac_80 MHz (	MCS0	16.5	8.51	16.29	16.01	19.16	27.67	30	Pass

	Beamforming Mode)									
6865	802.11ax_80 MHz (Beamforming Mode)	MCS0	16.5	8.51	16.19	16.12	19.17	27.68	30	Pass
6865	802.11be_80 MHz (Beamforming Mode)	MCS0	16.5	8.51	16.27	16.02	19.16	27.67	30	Pass
6825	802.11ax_160 MHz (Beamforming Mode)	MCS0	15.5	8.51	15.3	15.23	18.28	26.79	30	Pass
6825	802.11be_160 MHz (Beamforming Mode)	MCS0	15.5	8.51	15.33	15.10	18.23	26.74	30	Pass
6585	802.11be_320 MHz (Beamforming Mode)	MCS0	14.5	8.51	15.25	15.30	18.29	26.80	30	Pass
6745	802.11be_320 MHz (Beamforming Mode)	MCS0	14.5	8.51	15.05	15.21	18.14	26.65	30	Pass

Frequency (MHz)	Mode	Data rate	Power setting	DG (dBi)	Antenna 1 (dBm)	Antenna 2 (dBm)	Total Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Result
6895	802.11ax_20 MHz (CDD Mode)	MCS0	17.5	5.5	17.79	17.40	20.61	26.11	30	Pass
7015	802.11ax_20 MHz (CDD Mode)	MCS0	17.5	5.5	16.87	16.88	19.89	25.39	30	Pass
7115	802.11ax_20 MHz (CDD Mode)	MCS0	17.5	5.5	17.03	16.92	19.99	25.49	30	Pass
6895	802.11be_20 MHz (CDD Mode)	MCS0	17.5	5.5	17.74	17.64	20.70	26.20	30	Pass
7015	802.11be_20 MHz (CDD Mode)	MCS0	17.5	5.5	17.07	17.67	20.39	25.89	30	Pass
7115	802.11be_20 MHz (CDD Mode)	MCS0	17.5	5.5	17.07	17.78	20.45	25.95	30	Pass
6925	802.11ax_40 MHz (CDD Mode)	MCS0	17	5.5	16.29	16.79	19.56	25.06	30	Pass
7005	802.11ax_40 MHz (CDD Mode)	MCS0	17	5.5	16.77	16.49	19.64	25.14	30	Pass
7085	802.11ax_40 MHz (CDD Mode)	MCS0	17	5.5	16.63	16.68	19.67	25.17	30	Pass
6925	802.11be_40 MHz (CDD Mode)	MCS0	17	5.5	17.33	17.29	20.32	25.82	30	Pass
7005	802.11be_40 MHz (CDD Mode)	MCS0	17	5.5	17.63	17.71	20.68	26.18	30	Pass
7085	802.11be_40 MHz (CDD Mode)	MCS0	17	5.5	16.5	16.60	19.56	25.06	30	Pass
6945	802.11ax_80 MHz (CDD Mode)	MCS0	16.5	5.5	16.27	16.16	19.23	24.73	30	Pass
7025	802.11ax_80 MHz (CDD Mode)	MCS0	16.5	5.5	16.12	16.15	19.15	24.65	30	Pass
6945	802.11be_80 MHz (CDD Mode)	MCS0	16.5	5.5	16.55	16.74	19.66	25.16	30	Pass

7025	802.11be_80 MHz (CDD Mode)	MCS0	16.5	5.5	16.3	16.51	19.42	24.92	30	Pass
6985	802.11ax_160 MHz (CDD Mode)	MCS0	15.5	5.5	15.19	15.25	18.23	23.73	30	Pass
6985	802.11be_160 MHz (CDD Mode)	MCS0	15.5	5.5	15.63	15.38	18.52	24.02	30	Pass
6875	802.11a_20 MHz (CDD Mode)	MCS0	17.5	5.5	17.01	16.98	20.01	25.51	30	Pass
6875	802.11n_20 MHz (CDD Mode)	MCS0	17.5	5.5	16.99	16.90	19.96	25.46	30	Pass
6875	802.11ac_20 MHz (CDD Mode)	MCS0	17.5	5.5	16.85	16.80	19.84	25.34	30	Pass
6875	802.11ax_20 MHz (CDD Mode)	MCS0	17.5	5.5	17.13	16.86	20.01	25.51	30	Pass
6875	802.11be_20 MHz (CDD Mode)	MCS0	17.5	5.5	16.82	16.80	19.82	25.32	30	Pass
6885	802.11n_40 MHz (CDD Mode)	MCS0	17	5.5	16.56	16.73	19.66	25.16	30	Pass
6885	802.11ac_40 MHz (CDD Mode)	MCS0	17	5.5	16.56	16.60	19.59	25.09	30	Pass
6885	802.11ax_40 MHz (CDD Mode)	MCS0	17	5.5	16.53	16.67	19.61	25.11	30	Pass
6885	802.11be_40 MHz (CDD Mode)	MCS0	17	5.5	16.5	16.65	19.59	25.09	30	Pass
6905	802.11be_320 MHz (CDD Mode)	MCS0	14.5	5.5	14.5	14.62	17.57	23.07	30	Pass

Note: In Beamforming Mode, Directional gain will be antenna gain +3.01 dBi (I have used formula 10log(No. of antenna)										
6895	802.11ax_20 MHz (Beamforming Mode)	MCS0	17.5	8.51	17.79	17.40	20.61	29.12	30	Pass
7015	802.11ax_20 MHz (Beamforming Mode)	MCS0	17.5	8.51	16.87	16.88	19.89	28.40	30	Pass
7115	802.11ax_20 MHz (Beamforming	MCS0	17.5	8.51	17.03	16.92	19.99	28.50	30	Pass

	Mode)									
6895	802.11be_20MHz (Beamforming Mode)	MCS0	17.5	8.51	17.74	17.64	20.70	29.21	30	Pass
7015	802.11be_20MHz (Beamforming Mode)	MCS0	17.5	8.51	17.07	17.67	20.39	28.90	30	Pass
7115	802.11be_20MHz (Beamforming Mode)	MCS0	17.5	8.51	17.07	17.78	20.45	28.96	30	Pass
6925	802.11ax_40 MHz (Beamforming Mode)	MCS0	17	8.51	16.29	16.79	19.56	28.07	30	Pass
7005	802.11ax_40 MHz (Beamforming Mode)	MCS0	17	8.51	16.77	16.49	19.64	28.15	30	Pass
7085	802.11ax_40 MHz (Beamforming Mode)	MCS0	17	8.51	16.63	16.68	19.67	28.18	30	Pass
6925	802.11be_40 MHz (Beamforming Mode)	MCS0	17	8.51	17.33	17.29	20.32	28.83	30	Pass
7005	802.11be_40 MHz (Beamforming Mode)	MCS0	17	8.51	17.63	17.71	20.68	29.19	30	Pass
7085	802.11be_40 MHz (Beamforming Mode)	MCS0	17	8.51	16.5	16.60	19.56	28.07	30	Pass
6945	802.11ax_80 MHz (Beamforming Mode)	MCS0	16.5	8.51	16.27	16.16	19.23	27.74	30	Pass
7025	802.11ax_80 MHz (Beamforming Mode)	MCS0	16.5	8.51	16.12	16.15	19.15	27.66	30	Pass
6945	802.11be_80 MHz (Beamforming Mode)	MCS0	16.5	8.51	16.55	16.74	19.66	28.17	30	Pass
7025	802.11be_80 MHz (Beamforming Mode)	MCS0	16.5	8.51	16.3	16.51	19.42	27.93	30	Pass
6985	802.11ax_160	MCS0	15.5	8.51	15.19	15.25	18.23	26.74	30	Pass

	MHz (Beamforming Mode)									
6985	802.11be_160 MHz (Beamforming Mode)	MCS0	15.5	8.51	15.63	15.38	18.52	27.03	30	Pass
6875	802.11a_20 MHz (Beamforming Mode)	MCS0	17.5	8.51	16.97	16.94	19.97	28.48	30	Pass
6875	802.11n_20 MHz (Beamforming Mode)	MCS0	17.5	8.51	17.02	17.01	20.03	28.54	30	Pass
6875	802.11ac_20 MHz (Beamforming Mode)	MCS0	17.5	8.51	16.87	16.99	19.94	28.45	30	Pass
6875	802.11ax_20 MHz (Beamforming Mode)	MCS0	17.5	8.51	17.13	16.90	20.03	28.54	30	Pass
6875	802.11be_20 MHz (Beamforming Mode)	MCS0	17.5	8.51	16.87	16.81	19.85	28.36	30	Pass
6885	802.11n_40 MHz (Beamforming Mode)	MCS0	17	8.51	16.56	16.73	19.66	28.17	30	Pass
6885	802.11ac_40 MHz (Beamforming Mode)	MCS0	17	8.51	16.56	16.60	19.59	28.10	30	Pass
6885	802.11ax_40 MHz (Beamforming Mode)	MCS0	17	8.51	16.53	16.67	19.61	28.12	30	Pass
6885	802.11be_40 MHz (Beamforming Mode)	MCS0	17	8.51	16.5	16.65	19.59	28.10	30	Pass
6905	802.11be_320 MHz (Beamforming Mode)	MCS0	14.5	8.51	14.5	14.62	17.57	26.08	30	Pass

Note 2: Total Average Power (dBm) = $10*\log\{10^{(\text{Ant 0 Average Power }/10)} + 10^{(\text{Ant 1 Average Power }/10)}\}$ (dBm).

Directional gain = G_{ANT} + array gain

For CDD Mode, Array Gain is zero for output power measurments
For Beamforming Mode, Array Gain =10 log (No of antenna)
10log (2)=3.01

DG (Beamforming)	**5.5+3.01**	**8.51**

End of Report