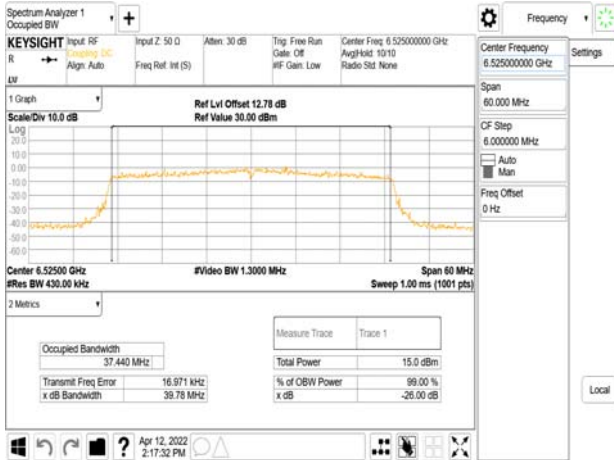
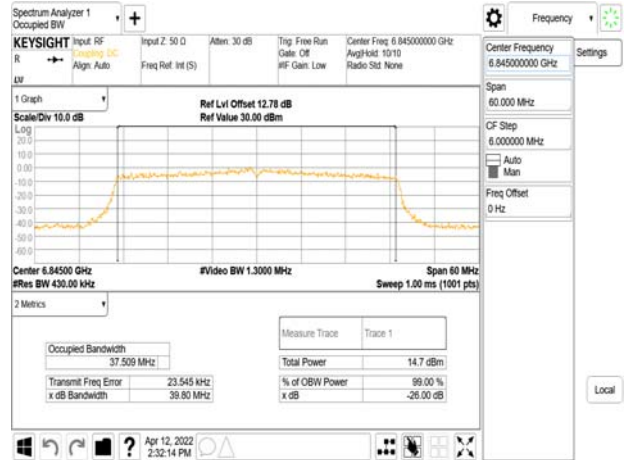


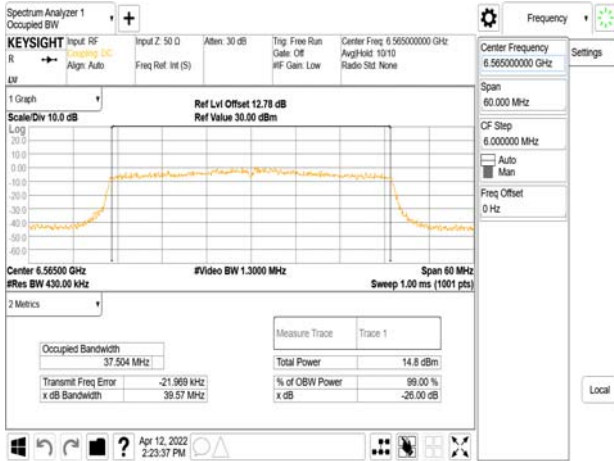
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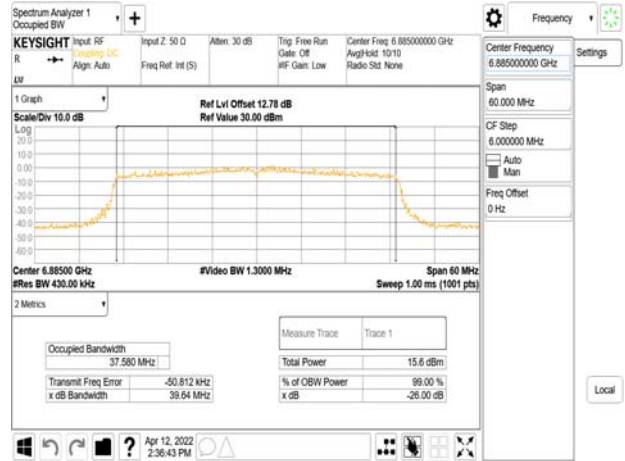
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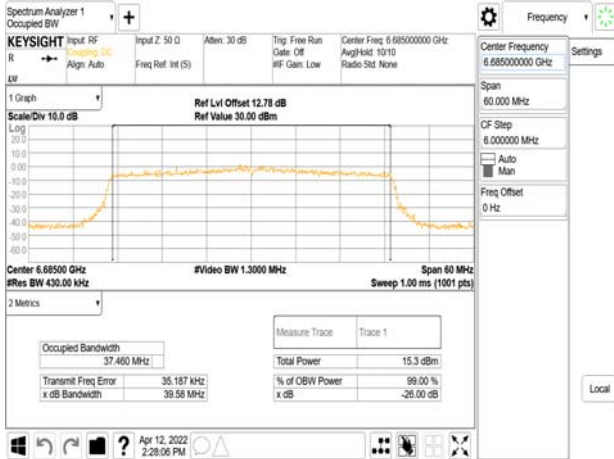
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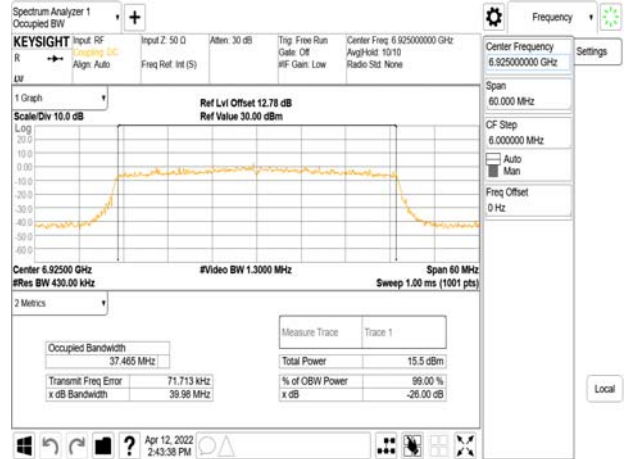
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802.11ax_40MHz_Chain1_6685MHz



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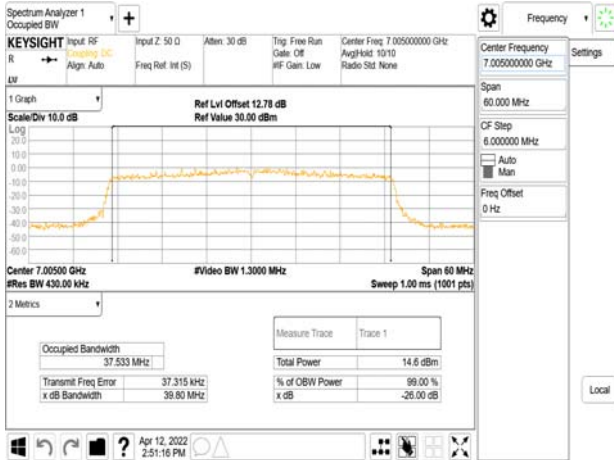


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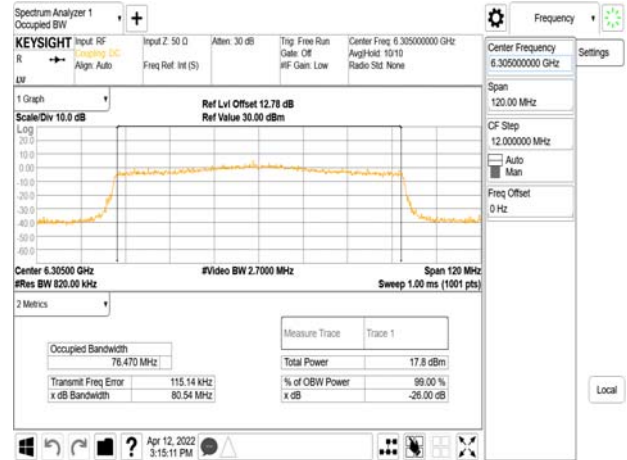
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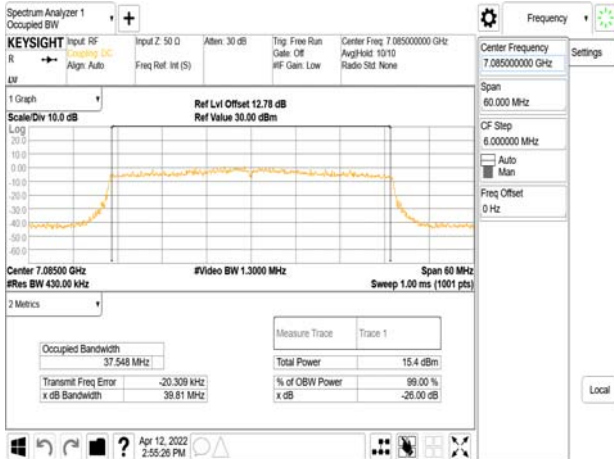
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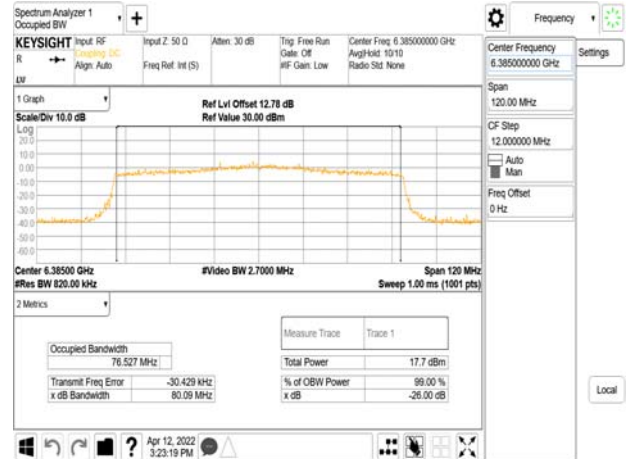
802.11ax_80MHz_Chain0_6305MHz



802.11ax_40MHz_Chain1_7085MHz



802.11ax_80MHz_Chain0_6385MHz



802.11ax_80MHz_Chain0_6145MHz



802.11ax_80MHz_Chain0_6465MHz

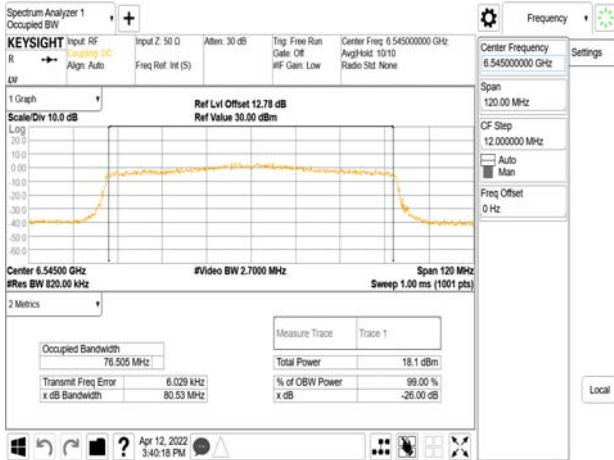


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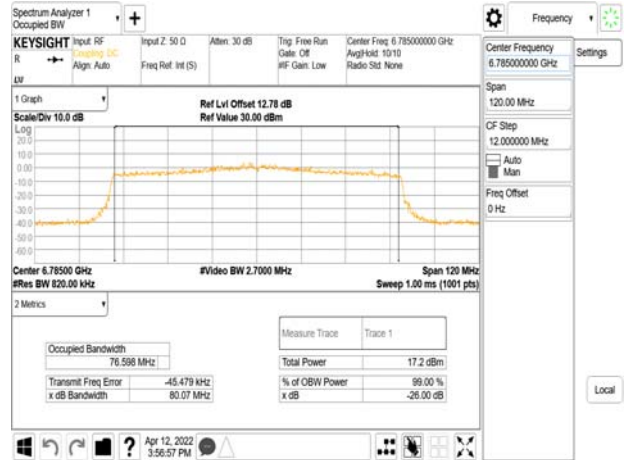
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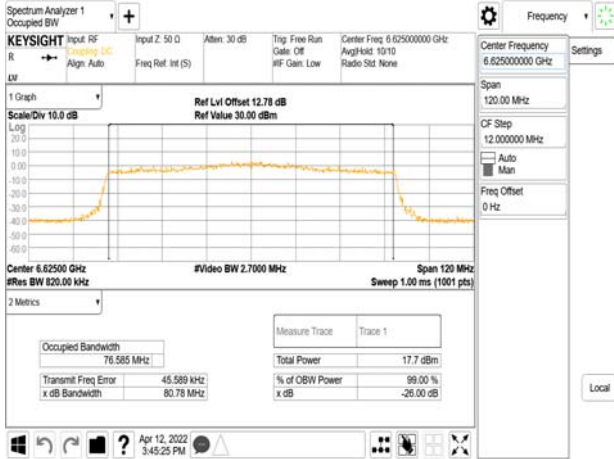
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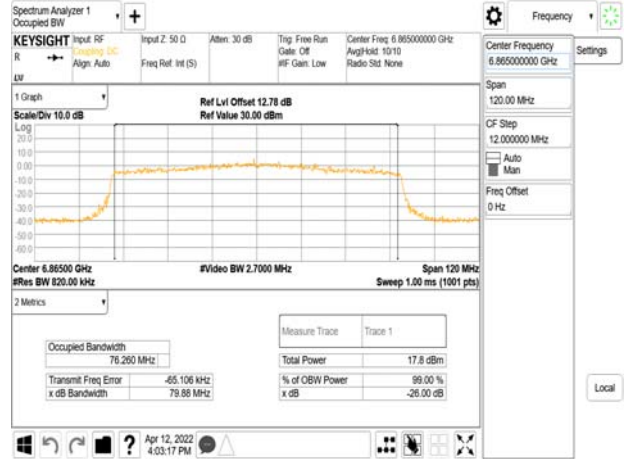
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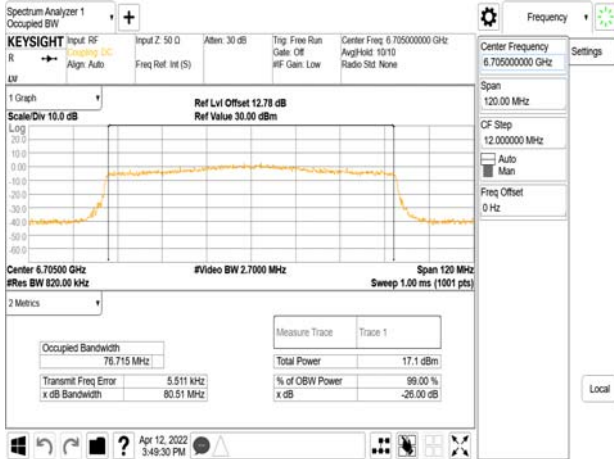
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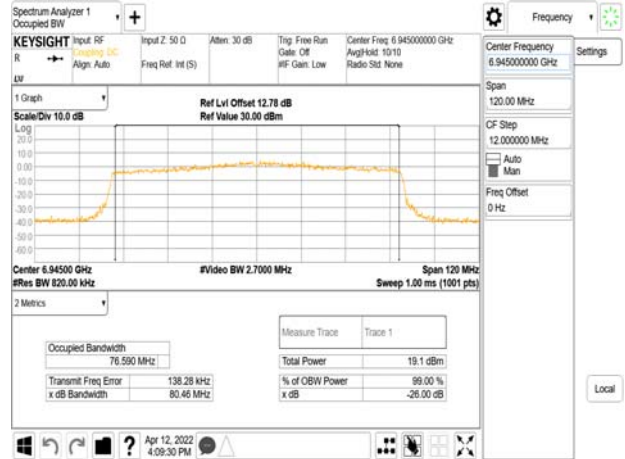
802.11ax_80MHz_Chain0_6865MHz



802.11ax_80MHz_Chain0_6705MHz



802.11ax_80MHz_Chain0_6945MHz

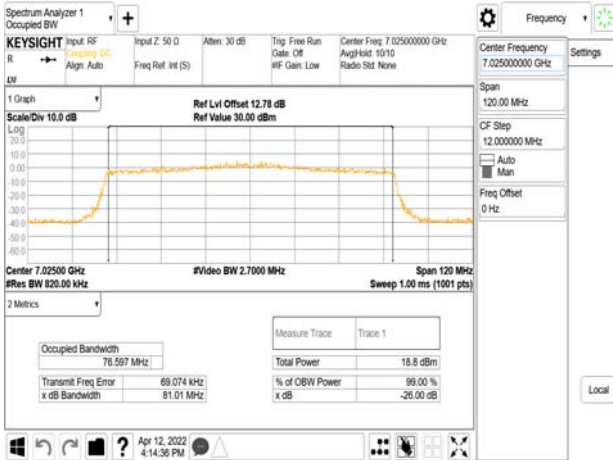


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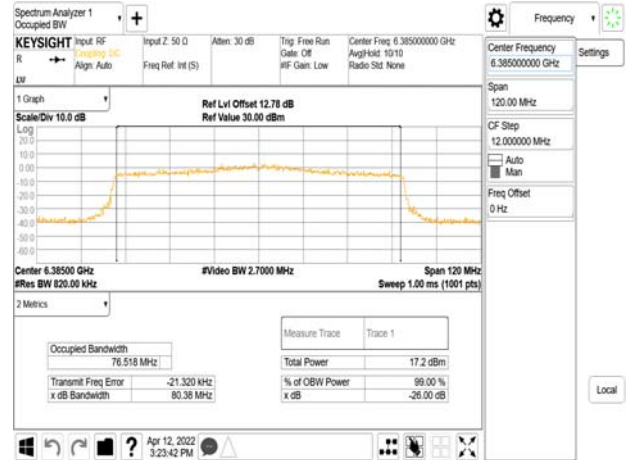
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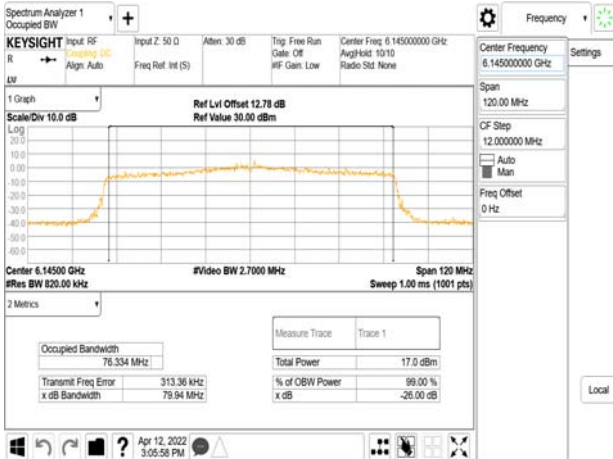
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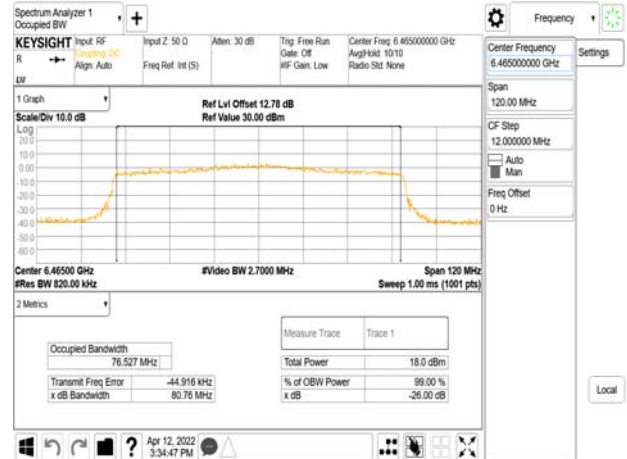
802.11ax_80MHz_Chain1_6385MHz



802.11ax_80MHz_Chain1_6145MHz



802.11ax_80MHz_Chain1_6465MHz



802.11ax_80MHz_Chain1_6305MHz



802.11ax_80MHz_Chain1_6545MHz

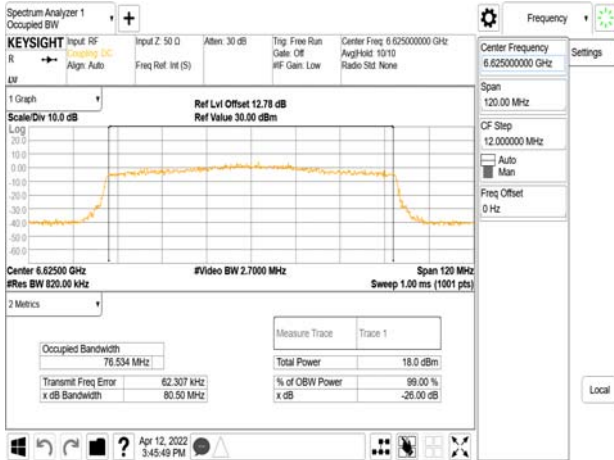


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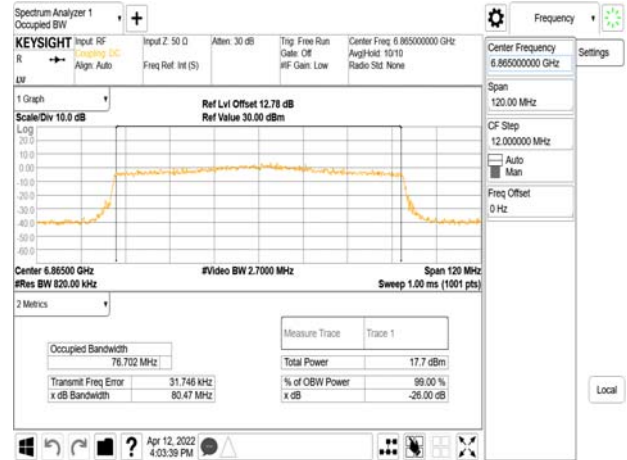
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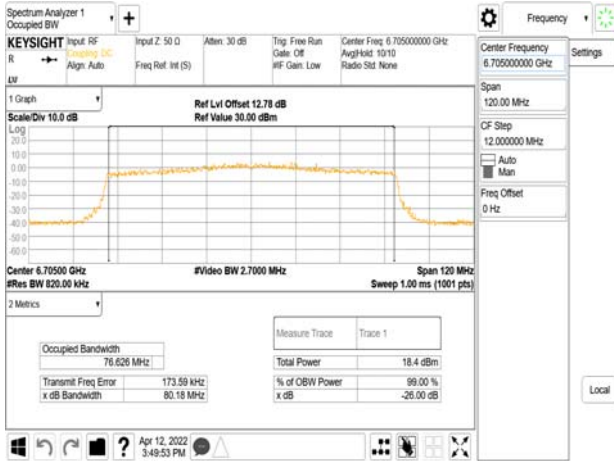
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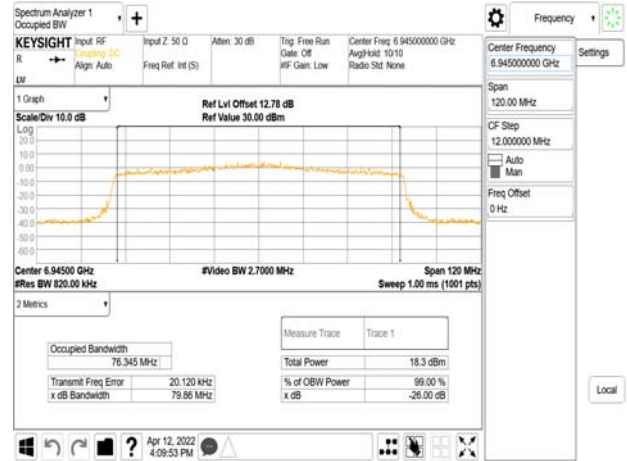
802.11ax_80MHz_Chain1_6865MHz



802.11ax_80MHz_Chain1_6705MHz



802.11ax_80MHz_Chain1_6945MHz



802.11ax_80MHz_Chain1_6785MHz



802.11ax_80MHz_Chain1_7025MHz

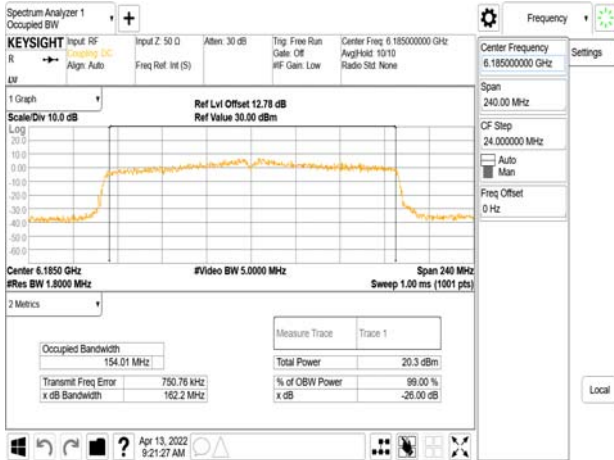


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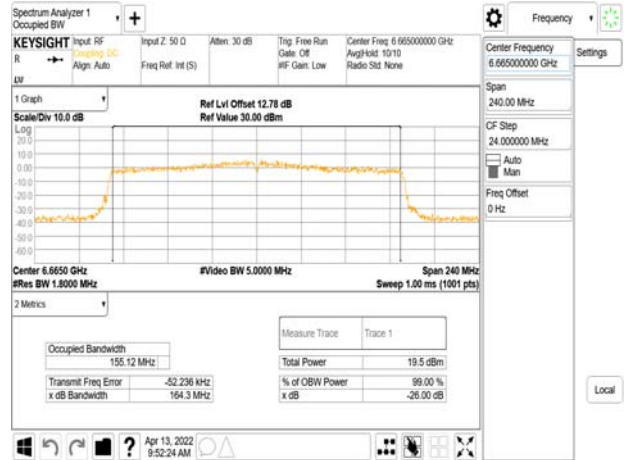
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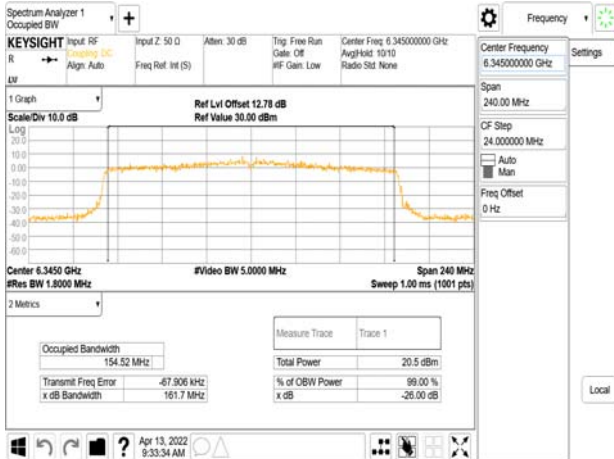
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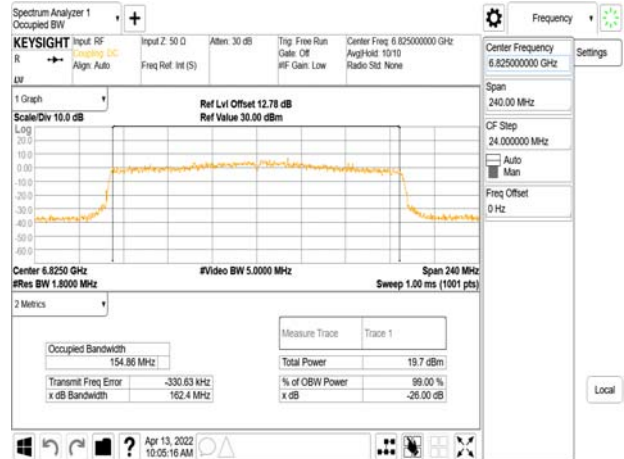
802.11ax_160MHz_Chain0_6665MHz



802.11ax_160MHz_Chain0_6345MHz



802.11ax_160MHz_Chain0_6825MHz



802.11ax_160MHz_Chain0_6505MHz



802.11ax_160MHz_Chain0_6985MHz

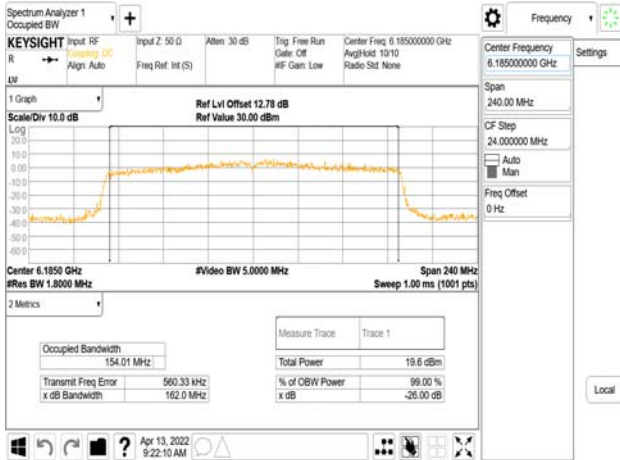


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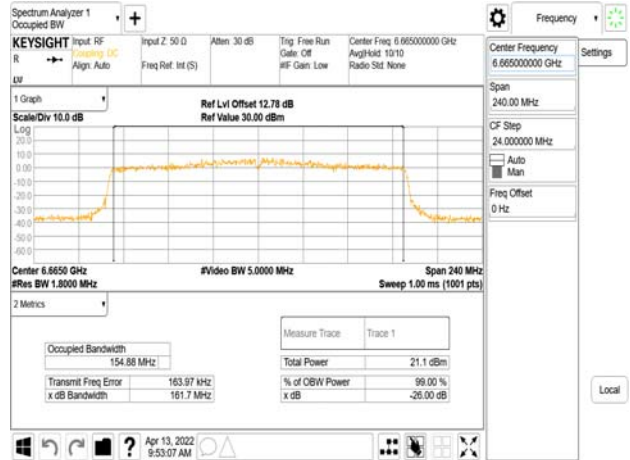
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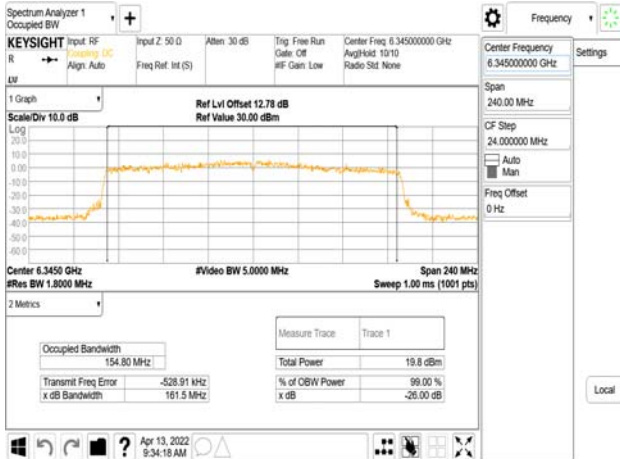
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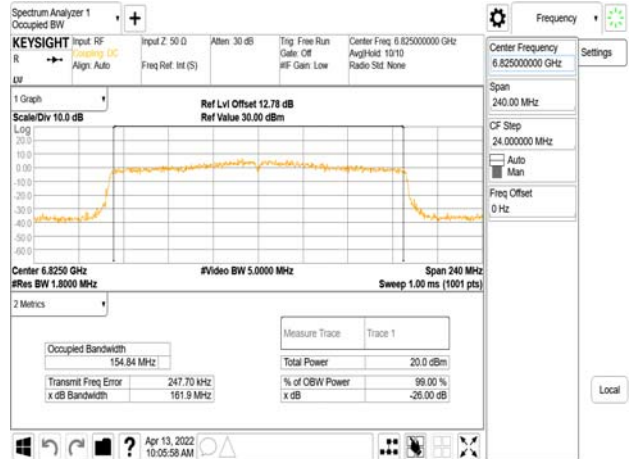
802.11ax_160MHz_Chain1_6665MHz



802.11ax_160MHz_Chain1_6345MHz



802.11ax_160MHz_Chain1_6825MHz



802.11ax_160MHz_Chain1_6505MHz



802.11ax_160MHz_Chain1_6985MHz



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9 MAXIMUM OUTPUT POWER

9.1 Standard Applicable

9.1.1 Duty Cycle

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

9.1.2 Output Power

§15.407(a)

- (4) For a standard power access point and fixed client device operating in the 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm.
For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
- (5) For an indoor access point operating in the 5.925-7.125 GHz band, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.
- (6) For a subordinate device operating under the control of an indoor access point in the 5.925-7.125 GHz band, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.
- (7) For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.
- (8) For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

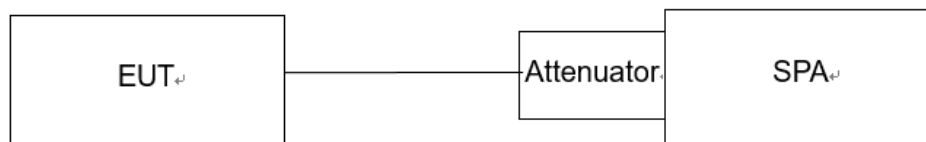
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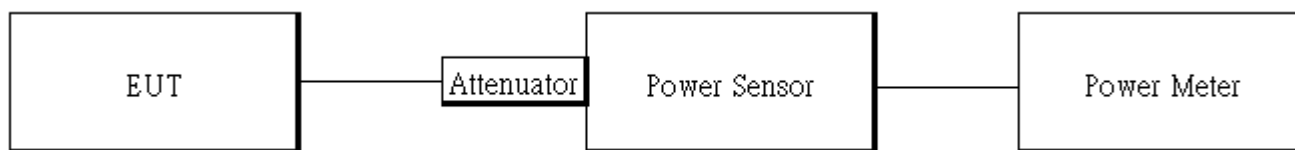
EUT CATEGORY		Equipment Class	§15.407(a)
<input type="checkbox"/>	Standard Access Point	6SD	EIRP < 36dBm and antenna angle above 30 degrees < 21dBm EIRP for outdoor use
<input checked="" type="checkbox"/>	indoor Access Point	6ID	EIRP < 30dBm
<input type="checkbox"/>	Subordinate Device	6PP	EIRP < 30dBm
<input type="checkbox"/>	Fixed Client	6FC	EIRP < 36dBm and antenna angle above 30 degrees < 21dBm EIRP for outdoor use
<input type="checkbox"/>	Indoor Client	6XD	EIRP < 24dBm
<input type="checkbox"/>	Standard Client	6FX	EIRP < 30dBm no more than 6 dB below its associated standard power access point's authorized transmit power
<input type="checkbox"/>	Dual Client	6CD	Compliance both indoor client and standard client limit

9.2 Test Setup

9.2.1 Duty Cycle



9.2.2 Output Power



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Note:

This device using Cyclic Delay Diversity (CDD) diversity scheme
 As per section F. 2). f). (ii) of FCC KDB 662911 D01
 Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain

As per section F. 2). f). (i) of FCC KDB 662911 D01, if all antennas have the same gain, GANT,

Directional gain = $G_{ANT} + \text{Array Gain}$

For power measurements on IEEE 802.11 devices, 1,2
 Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4;
 Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any NANT;
 Array Gain = 5 log(NANT/NSS) dB or 3 dB, whichever is less, for 20-MHz channel widths with NANT ≥ 5.

For the frequency band 5925 – 6425 GHz when G1=6.0dBi and G2 = 5.3 dBi:
 Directional gain = 6dBi + 0dB = 6dBi, based on G1 = **6dBi**
 Please refer the section 1.3 of this test report for antenna gains.

9.3 Measurement Procedure

9.3.1 Duty Cycle

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

9.3.2 Output Power

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add 10 log(1/duty cycle).
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.
7. MIMO mode: offset is set with “measure and add 10 Log (N)” to measurement for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

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9.4 Measurement Result

9.4.1 Conducted output power

802.11a_2Tx

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
		CH 0	CH 1					
33	6115	10.39	10.14	13.32	6	19.32	30	PASS
65	6275	10.58	9.64	13.19	6	19.19	30	PASS
93	6415	10.61	9.94	13.34	6	19.34	30	PASS
97	6435	11.62	11.02	14.38	5.5	19.88	30	PASS
105	6475	11.27	10.87	14.12	5.5	19.62	30	PASS
113	6515	11.62	11.25	14.49	5.5	19.99	30	PASS
117	6535	12.09	11.95	15.07	5.5	20.57	30	PASS
149	6695	11.87	12.68	15.34	5.5	20.84	30	PASS
181	6855	10.53	10.39	13.51	5.5	19.01	30	PASS
185	6875(U-NII 7)	7.11	7.04	10.09	5.5	15.59	30	PASS
185	6875(U-NII 8)	4.10	7.04	8.82	3.4	12.22	30	PASS
189	6895	10.62	9.67	13.22	3.4	16.62	30	PASS
209	6995	9.56	8.15	11.96	3.4	15.36	30	PASS
229	7095	10.33	9.62	13.04	3.4	16.44	30	PASS

802.11n_HT20_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
		CH 0	CH 1					
33	6115	11.82	11.62	14.74	6	20.74	30	PASS
65	6275	11.12	10.13	13.67	6	19.67	30	PASS
93	6415	11.51	10.93	14.25	6	20.25	30	PASS
97	6435	12.14	11.53	14.87	5.5	20.37	30	PASS
105	6475	11.73	11.41	14.59	5.5	20.09	30	PASS
113	6515	12.06	11.75	14.93	5.5	20.43	30	PASS
117	6535	12.53	12.36	15.47	5.5	20.97	30	PASS
149	6695	13.27	14.22	16.79	5.5	22.29	30	PASS
181	6855	11.03	11.09	14.08	5.5	19.58	30	PASS
185	6875(U-NII 7)	8.55	8.76	11.67	5.5	17.17	30	PASS
185	6875(U-NII 8)	5.54	8.76	10.45	3.4	13.85	30	PASS
189	6895	12.09	11.49	14.82	3.4	18.22	30	PASS
209	6995	11.91	10.69	14.36	3.4	17.76	30	PASS
229	7095	11.28	10.70	14.02	3.4	17.42	30	PASS

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802.11n_HT40_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
		CH 0	CH 1					
35	6125	13.92	13.53	16.75	6	22.75	30	PASS
67	6285	14.62	13.82	17.26	6	23.26	30	PASS
91	6405	14.65	14.56	17.63	6	23.63	30	PASS
99	6445	14.91	15.04	18.00	5.5	23.50	30	PASS
107	6485	15.63	15.61	18.64	5.5	24.14	30	PASS
115	6525(U-NII 6)	12.77	12.56	15.68	5.5	21.18	30	PASS
115	6525(U-NII 7)	9.76	12.56	14.39	5.5	19.89	30	PASS
123	6565	16.26	15.82	19.07	5.5	24.57	30	PASS
147	6685	16.23	16.33	19.30	5.5	24.80	30	PASS
179	6845	16.33	16.62	19.50	5.5	25.00	30	PASS
187	6885(U-NII 7)	8.72	9.69	12.24	5.5	17.74	30	PASS
187	6885(U-NII 8)	7.63	15.17	15.87	3.4	19.27	30	PASS
195	6925	15.21	16.32	18.82	3.4	22.22	30	PASS
211	7005	14.61	13.11	16.94	3.4	20.34	30	PASS
227	7085	14.32	13.79	17.08	3.4	20.48	30	PASS

802.11ac_VHT20_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
		CH 0	CH 1					
33	6115	11.76	11.58	14.69	6	20.69	30	PASS
65	6275	11.01	10.04	13.57	6	19.57	30	PASS
93	6415	11.46	10.77	14.15	6	20.15	30	PASS
97	6435	12.09	11.42	14.79	5.5	20.29	30	PASS
105	6475	11.57	11.36	14.49	5.5	19.99	30	PASS
113	6515	11.94	11.62	14.80	5.5	20.30	30	PASS
117	6535	12.47	12.11	15.31	5.5	20.81	30	PASS
149	6695	13.15	14.17	16.71	5.5	22.21	30	PASS
181	6855	10.95	10.91	13.95	5.5	19.45	30	PASS
185	6875(U-NII 7)	8.32	8.53	11.44	5.5	16.94	30	PASS
185	6875(U-NII 8)	5.31	8.53	10.22	3.4	13.62	30	PASS
189	6895	11.94	11.37	14.68	3.4	18.08	30	PASS
209	6995	11.86	10.53	14.27	3.4	17.67	30	PASS
233	7115	11.09	10.65	13.90	3.4	17.30	30	PASS

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802.11ac_VHT40_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
		CH 0	CH 1					
35	6125	13.85	13.48	16.69	6	22.69	30	PASS
67	6285	14.55	13.74	17.18	6	23.18	30	PASS
91	6405	14.43	14.45	17.46	6	23.46	30	PASS
99	6445	14.86	14.89	17.90	5.5	23.40	30	PASS
107	6485	15.49	15.51	18.52	5.5	24.02	30	PASS
115	6525(U-NII 6)	12.65	12.46	15.57	5.5	21.07	30	PASS
115	6525(U-NII 7)	9.64	12.46	14.28	5.5	19.78	30	PASS
123	6565	16.16	15.73	18.97	5.5	24.47	30	PASS
147	6685	16.11	16.03	19.09	5.5	24.59	30	PASS
179	6845	16.12	16.48	19.32	5.5	24.82	30	PASS
187	6885(U-NII 7)	8.64	9.48	12.09	5.5	17.59	30	PASS
187	6885(U-NII 8)	7.55	14.96	15.68	3.4	19.08	30	PASS
195	6925	15.08	16.21	18.70	3.4	22.10	30	PASS
211	7005	14.53	13.08	16.89	3.4	20.29	30	PASS
227	7085	14.23	13.66	16.97	3.4	20.37	30	PASS

802.11ac_VHT80_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
		CH 0	CH 1					
39	6145	14.46	14.18	17.34	6	23.34	30	PASS
71	6305	14.23	13.13	16.74	6	22.74	30	PASS
87	6385	14.09	14.15	17.14	6	23.14	30	PASS
103	6465	15.18	15.12	18.17	5.5	23.67	30	PASS
119	6545(U-NII 6)	9.00	8.86	11.94	5.5	17.44	30	PASS
119	6545(U-NII 7)	7.85	14.03	14.96	5.5	20.46	30	PASS
135	6625	16.43	16.32	19.40	5.5	24.90	30	PASS
151	6705	15.23	15.27	18.27	5.5	23.77	30	PASS
167	6785	16.52	16.35	19.46	5.5	24.96	30	PASS
183	6865(U-NII 7)	13.43	14.30	16.89	5.5	22.39	30	PASS
183	6865(U-NII 8)	9.07	11.92	13.74	3.4	17.14	30	PASS
199	6945	14.83	15.94	18.44	3.4	21.84	30	PASS
215	7025	14.81	15.44	18.16	3.4	21.56	30	PASS

802.11ac_VHT160_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
		CH 0	CH 1					
47	6185	17.57	17.41	20.51	6	26.51	30	PASS
79	6345	15.64	16.12	18.91	6	24.91	30	PASS
111	6505(U-NII 6)	15.41	15.13	18.28	5.5	23.78	30	PASS
111	6505(U-NII 7)	11.09	12.80	15.04	5.5	20.54	30	PASS
143	6665	17.55	17.99	20.80	5.5	26.30	30	PASS
175	6825(U-NII 7)	16.62	16.74	19.69	5.5	25.19	30	PASS
175	6825(U-NII 8)	9.01	9.97	12.53	3.4	15.93	30	PASS
207	6985	18.65	19.44	22.08	3.4	25.48	30	PASS

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802.11ax_20_2TX

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
33	6115	full	12.74	12.50	15.64	6	21.64	30	PASS
65	6275	full	12.54	11.63	15.13	6	21.13	30	PASS
93	6415	full	12.43	11.81	15.15	6	21.15	30	PASS
97	6435	full	13.27	12.79	16.06	5.5	21.56	30	PASS
105	6475	full	12.44	12.19	15.34	5.5	20.84	30	PASS
113	6515	full	12.49	12.15	15.34	5.5	20.84	30	PASS
117	6535	full	12.26	12.38	15.34	5.5	20.84	30	PASS
149	6695	full	14.14	14.23	17.21	5.5	22.71	30	PASS
181	6855	full	14.09	14.15	17.14	5.5	22.64	30	PASS
185	6875(U-NII 7)	full	11.34	11.91	14.64	5.5	20.14	30	PASS
185	6875(U-NII 8)	full	8.33	11.91	13.49	3.4	16.89	30	PASS
189	6895	full	14.84	15.53	18.22	3.4	21.62	30	PASS
209	6995	full	15.76	14.29	18.11	3.4	21.51	30	PASS
229	7095	full	16.37	17.59	20.04	3.4	23.44	30	PASS

802.11ax_40_2TX

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
35	6125	full	13.21	12.95	16.10	6	22.10	30	PASS
67	6285	full	13.47	12.79	16.16	6	22.16	30	PASS
91	6405	full	13.38	12.85	16.14	6	22.14	30	PASS
99	6445	full	13.59	13.13	16.39	5.5	21.89	30	PASS
107	6485	full	12.69	12.77	15.75	5.5	21.25	30	PASS
115	6525(U-NII 6)	full	10.65	10.73	13.70	5.5	19.20	30	PASS
115	6525(U-NII 7)	full	7.64	10.73	12.46	5.5	17.96	30	PASS
123	6565	full	14.45	14.12	17.31	5.5	22.81	30	PASS
147	6685	full	15.76	16.03	18.92	5.5	24.42	30	PASS
179	6845	full	18.68	18.91	21.82	5.5	27.32	30	PASS
187	6885(U-NII 7)	full	10.91	12.33	14.69	5.5	20.19	30	PASS
187	6885(U-NII 8)	full	9.76	17.48	18.16	3.4	21.56	30	PASS
195	6925	full	16.02	17.53	19.86	3.4	23.26	30	PASS
211	7005	full	16.62	17.88	20.32	3.4	23.72	30	PASS
227	7085	full	17.54	18.24	20.92	3.4	24.32	30	PASS

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802.11ax_80_2TX

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
39	6145	full	14.81	15.44	18.16	6	24.16	30	PASS
71	6305	full	14.75	13.78	17.31	6	23.31	30	PASS
87	6385	full	15.32	15.22	18.29	6	24.29	30	PASS
103	6465	full	15.06	15.28	18.19	5.5	23.69	30	PASS
119	6545(U-NII 6)	full	9.43	9.57	12.51	5.5	18.01	30	PASS
119	6545(U-NII 7)	full	8.24	14.59	15.50	5.5	21.00	30	PASS
135	6625	full	17.35	17.22	20.31	5.5	25.81	30	PASS
151	6705	full	17.33	17.41	20.39	5.5	25.89	30	PASS
167	6785	full	17.89	17.80	20.87	5.5	26.37	30	PASS
183	6865(U-NII 7)	full	17.23	17.79	20.53	5.5	26.03	30	PASS
183	6865(U-NII 8)	full	12.90	15.47	17.38	3.4	20.78	30	PASS
199	6945	full	19.63	20.74	23.24	3.4	26.64	30	PASS
215	7025	full	19.68	20.47	23.11	3.4	26.51	30	PASS

802.11ax_160_2TX

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
47	6185	full	18.04	17.78	20.93	6	26.93	30	PASS
79	6345	full	17.31	17.62	20.49	6	26.49	30	PASS
111	6505(U-NII 6)	full	15.92	15.74	18.84	5.5	24.34	30	PASS
111	6505(U-NII 7)	full	11.62	13.44	15.63	5.5	21.13	30	PASS
143	6665	full	19.08	19.75	22.45	5.5	27.95	30	PASS
175	6825(U-NII 7)	full	20.09	19.96	23.04	5.5	28.54	30	PASS
175	6825(U-NII 8)	full	12.58	13.29	15.96	3.4	19.36	30	PASS
207	6985	full	21.03	22.58	24.90	3.4	28.30	30	PASS

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10 MAXIMUM POWER SPECTRAL DENSITY

10.1 Standard Applicable

§15.407(a)

- (4) For a standard power access point and fixed client device operating in the 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum power spectral density must not exceed 23 dBm e.i.r.p in any 1-megahertz band.
- (5) For an indoor access point operating in the 5.925-7.125 GHz band, the maximum power spectral density must not exceed 5 dBm e.i.r.p. in any 1-megahertz band.
- (6) For a subordinate device operating under the control of an indoor access point in the 5.925-7.125 GHz band, the maximum power spectral density must not exceed 5 dBm e.i.r.p in any 1-megahertz band.
- (7) For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum power spectral density must not exceed 17 dBm e.i.r.p. in any 1- megahertz band.
- (8) For client devices operating under the control of an indoor access point in the 5.925- 7.125 GHz bands, the maximum power spectral density must not exceed -1 dBm e.i.r.p. in any 1-megahertz band.
- (9) The e-field to EIRP calculations follow ANSI C63.10 and using equation as below:

$$EIRP[dBm] = E[dB\mu V/m] + 20 \log (d[m]) - 104.7$$

EUT CATEGORY		Equipment Class	§15.407(a)
<input type="checkbox"/>	Standard Access Point	6SD	EIRP < 23dBm/MHz
<input checked="" type="checkbox"/>	indoor Access Point	6ID	EIRP < 5dBm/MHz
<input type="checkbox"/>	Subordinate Device	6PP	EIRP < 5dBm/MHz
<input type="checkbox"/>	Fixed Client	6FC	EIRP < 23dBm/MHz
<input type="checkbox"/>	Indoor Client	6XD	EIRP < -1dBm/MHz
<input type="checkbox"/>	Standard Client	6FX	EIRP < 17dBm/MHz
<input type="checkbox"/>	Dual Client	6CD	Compliance both indoor client and standard client limits

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Note:

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k} = / 20 \log G_k$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

10.2 Test Setup

Please refer to section 12.2 for the details.

10.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto, detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
4. Use the cursor on spectrum to peak search the highest level of trace
5. Record the max. reading and add 10 log(1/duty cycle).
6. Repeat above procedures until all default test channel (low, middle, and high) was complete.

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10.4 Measurement Result

10.4.1 Power spectral density

POWER DENSITY 802.11a MODE					
Frequency (MHz)	PSD (dBuV/m)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
	ch0+1 meas				
6115	98.41	0.31	3.56	5.00	-1.44
6275	99.37	0.31	4.52	5.00	-0.48
6415	99.12	0.31	4.27	5.00	-0.73
6435	99.23	0.31	4.38	5.00	-0.62
6475	99.00	0.31	4.15	5.00	-0.85
6515	99.03	0.31	4.18	5.00	-0.82
6535	99.21	0.31	4.36	5.00	-0.64
6695	99.13	0.31	4.28	5.00	-0.72
6855	99.32	0.31	4.47	5.00	-0.53
6875	99.17	0.31	4.32	5.00	-0.68
6895	99.40	0.31	4.55	5.00	-0.45
6995	99.33	0.31	4.48	5.00	-0.52
7095	99.24	0.31	4.39	5.00	-0.61

POWER DENSITY 802.11n HT20 MODE					
Frequency (MHz)	PSD (dBuV/m)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
	ch0+1 meas				
6115	99.27	0.22	4.33	5.00	-0.67
6275	99.31	0.22	4.37	5.00	-0.63
6415	99.28	0.22	4.34	5.00	-0.66
6435	99.34	0.22	4.40	5.00	-0.60
6475	99.14	0.22	4.20	5.00	-0.80
6515	99.37	0.22	4.43	5.00	-0.57
6535	99.16	0.22	4.22	5.00	-0.78
6695	99.31	0.22	4.37	5.00	-0.63
6855	99.38	0.22	4.44	5.00	-0.56
6875	99.14	0.22	4.20	5.00	-0.80
6895	99.32	0.22	4.38	5.00	-0.62
6995	99.23	0.22	4.29	5.00	-0.71
7095	99.31	0.22	4.37	5.00	-0.63

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POWER DENSITY 802.11n HT40 MODE					
Frequency (MHz)	PSD (dBuV/m)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
	ch0+1 meas				
6125	99.35	0.37	4.56	5.00	-0.44
6285	99.29	0.37	4.50	5.00	-0.50
6405	98.45	0.37	3.66	5.00	-1.34
6445	99.17	0.37	4.38	5.00	-0.62
6485	99.06	0.37	4.27	5.00	-0.73
6525	99.33	0.37	4.54	5.00	-0.46
6565	99.66	0.37	4.87	5.00	-0.13
6685	98.88	0.37	4.09	5.00	-0.91
6845	99.55	0.37	4.76	5.00	-0.24
6885	99.27	0.37	4.48	5.00	-0.52
6925	99.05	0.37	4.26	5.00	-0.74
7005	99.16	0.37	4.37	5.00	-0.63
7085	99.15	0.37	4.36	5.00	-0.64

POWER DENSITY 802.11ac VHT80 MODE					
Frequency (MHz)	PSD (dBuV/m)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
	ch0+1 meas				
6145	99.03	0.39	4.26	5.00	-0.74
6305	99.23	0.39	4.46	5.00	-0.54
6385	99.24	0.39	4.47	5.00	-0.53
6465	99.26	0.39	4.49	5.00	-0.51
6545	98.81	0.39	4.04	5.00	-0.96
6625	99.35	0.39	4.58	5.00	-0.42
6705	99.32	0.39	4.55	5.00	-0.45
6785	98.86	0.39	4.09	5.00	-0.91
6865	99.13	0.39	4.36	5.00	-0.64
6945	98.84	0.39	4.07	5.00	-0.93
7025	99.14	0.39	4.37	5.00	-0.63

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POWER DENSITY 802.11ac VHT160 MODE					
Frequency (MHz)	PSD (dBuV/m)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
	ch0+1 meas				
6185	99.08	0.30	4.22	5.00	-0.78
6345	98.98	0.30	4.12	5.00	-0.88
6505	98.89	0.30	4.03	5.00	-0.97
6665	99.07	0.30	4.21	5.00	-0.79
6825	99.05	0.30	4.19	5.00	-0.81
6985	99.32	0.30	4.46	5.00	-0.54

POWER DENSITY 802.11ax HE20 MODE						
Frequency (MHz)	RU config.	PSD (dBuV/m)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
		ch0+1 meas				
6115	full	99.84	0.25	4.93	5.00	-0.07
6275	full	99.79	0.25	4.88	5.00	-0.12
6415	full	99.80	0.25	4.89	5.00	-0.11
6435	full	99.23	0.25	4.32	5.00	-0.68
6475	full	99.25	0.25	4.34	5.00	-0.66
6515	full	99.10	0.25	4.19	5.00	-0.81
6535	full	99.17	0.25	4.26	5.00	-0.74
6695	full	99.89	0.25	4.98	5.00	-0.02
6855	full	99.20	0.25	4.29	5.00	-0.71
6875	full	98.99	0.25	4.08	5.00	-0.92
6895	full	98.80	0.25	3.89	5.00	-1.11
6995	full	98.98	0.25	4.07	5.00	-0.93
7095	full	99.84	0.25	4.93	5.00	-0.07

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POWER DENSITY 802.11ax HE40 MODE						
Frequency (MHz)	RU config.	PSD (dBuV/m)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
		ch0+1 meas				
6125	full	99.84	0.27	4.95	5.00	-0.05
6285	full	99.79	0.27	4.90	5.00	-0.10
6405	full	99.74	0.27	4.85	5.00	-0.15
6445	full	98.95	0.27	4.06	5.00	-0.94
6485	full	98.71	0.27	3.82	5.00	-1.18
6525	full	99.19	0.27	4.30	5.00	-0.70
6565	full	99.58	0.27	4.69	5.00	-0.31
6685	full	99.54	0.27	4.65	5.00	-0.35
6845	full	98.94	0.27	4.05	5.00	-0.95
6885	full	99.35	0.27	4.46	5.00	-0.54
6925	full	99.32	0.27	4.43	5.00	-0.57
7005	full	99.52	0.27	4.63	5.00	-0.37
7085	full	99.06	0.27	4.17	5.00	-0.83

POWER DENSITY 802.11ax HE80 MODE						
Frequency (MHz)	RU config.	PSD (dBuV/m)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
		ch0+1 meas				
6145	full	99.81	0.33	4.98	5.00	-0.02
6305	full	99.74	0.33	4.91	5.00	-0.09
6385	full	98.85	0.33	4.02	5.00	-0.98
6465	full	99.30	0.33	4.47	5.00	-0.53
6545	full	99.08	0.33	4.25	5.00	-0.75
6625	full	99.82	0.33	4.99	5.00	-0.01
6705	full	99.81	0.33	4.98	5.00	-0.02
6785	full	98.79	0.33	3.96	5.00	-1.04
6865	full	99.55	0.33	4.72	5.00	-0.28
6945	full	98.84	0.33	4.01	5.00	-0.99
7025	full	98.80	0.33	3.97	5.00	-1.03

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POWER DENSITY 802.11ax HE160 MODE						
Frequency (MHz)	RU config.	PSD (dBuV/m)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
		ch0+1 meas				
6185	full	99.72	0.40	4.96	5.00	-0.04
6345	full	99.74	0.40	4.98	5.00	-0.02
6505	full	99.20	0.40	4.44	5.00	-0.56
6665	full	98.66	0.40	3.90	5.00	-1.10
6825	full	98.92	0.40	4.16	5.00	-0.84
6985	full	99.21	0.40	4.45	5.00	-0.55

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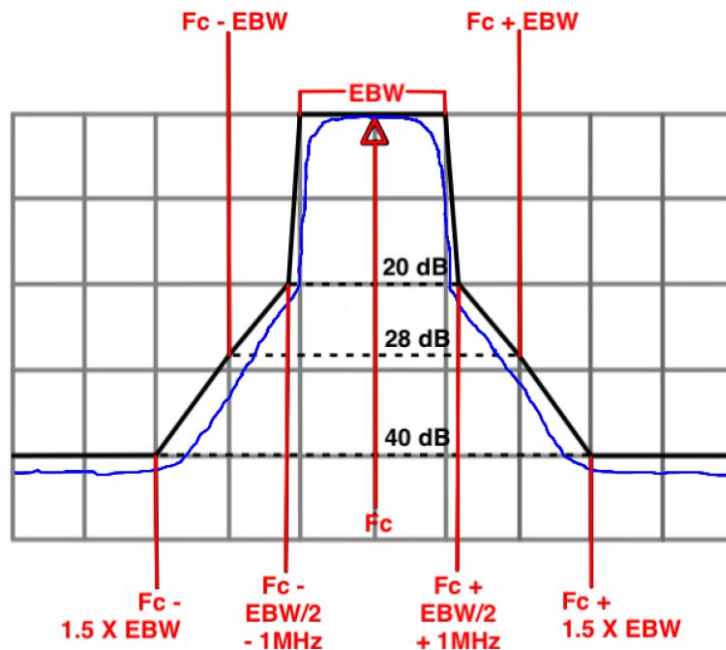
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11 IN-BAND EMISSION

11.1 Standard Applicable

For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

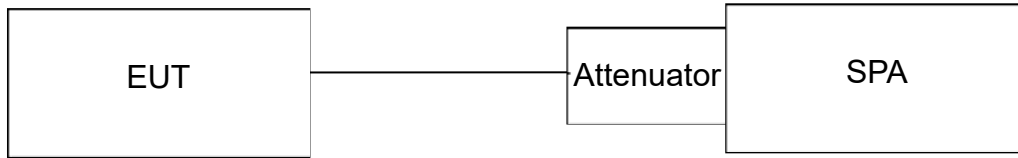


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11.1 Test Setup



11.2 Measurement Procedure

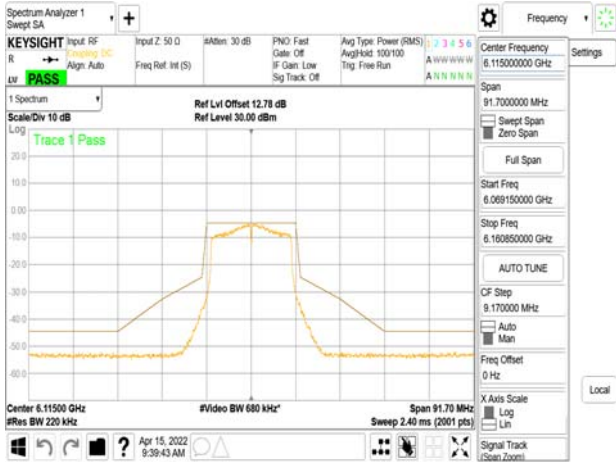
1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 987594 D02 In-Band Emissions procedure:
 - a. Set the span to encompass the entire 26 dB EBW of the signal
 - b. Set RBW = same RBW used for 26 dB EBW measurement
 - c. Set VBW $\geq 3 \times$ RBW
 - d. Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.
 - e. Sweep time = auto.
 - f. Detector = RMS
 - g. Trace average at least 100 traces in power averaging (rms) mode
 - h. Use the peak search function on the instrument to find the peak of the spectrum.
3. For the purposes of developing the emission mask, the channel bandwidth is defined as the 26 dB EBW.

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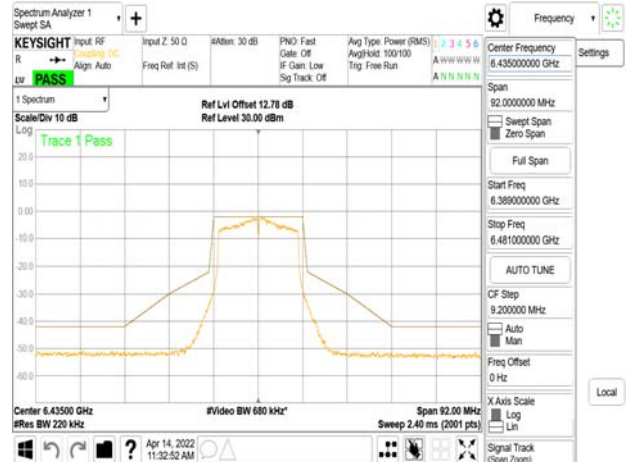
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11.3 Measurement Result

802.11a_20MHz_Chain0_6115MHz



802.11a_20MHz_Chain0_6435MHz



802.11a_20MHz_Chain0_6275MHz



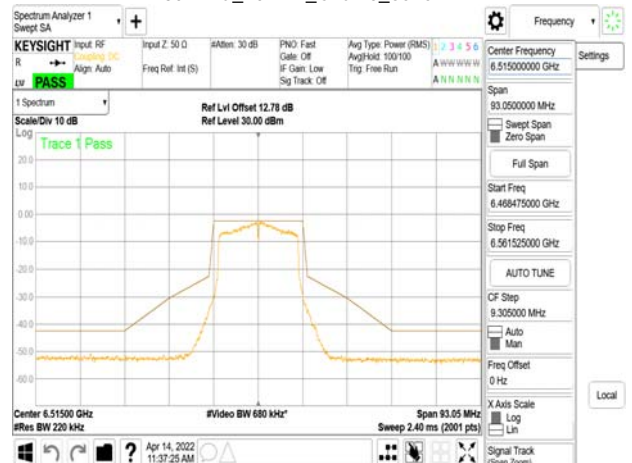
802.11a_20MHz_Chain0_6475MHz



802.11a_20MHz_Chain0_6415MHz



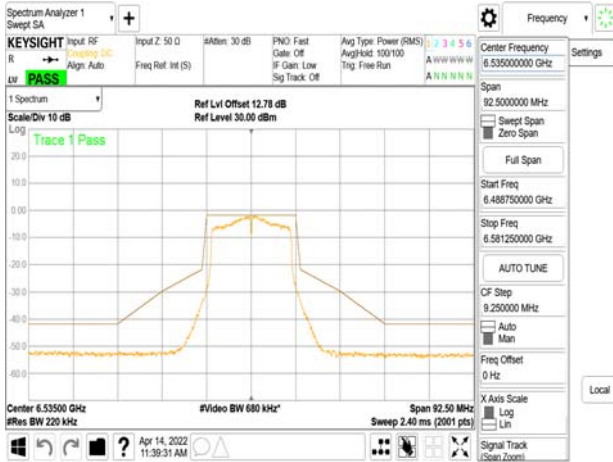
802.11a_20MHz_Chain0_6515MHz



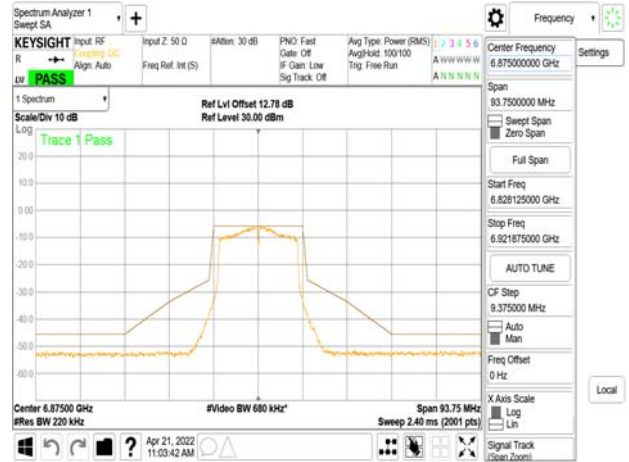
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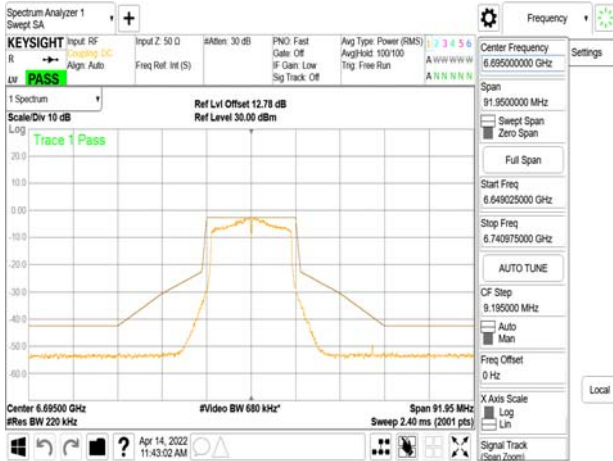
802.11a_20MHz_Chain0_6535MHz



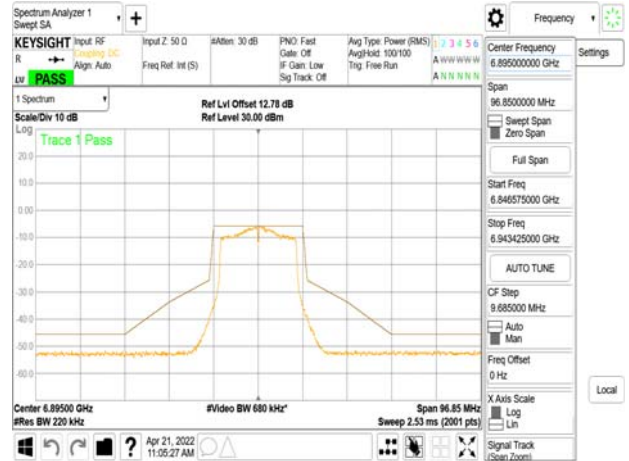
802.11a_20MHz_Chain0_6875MHz



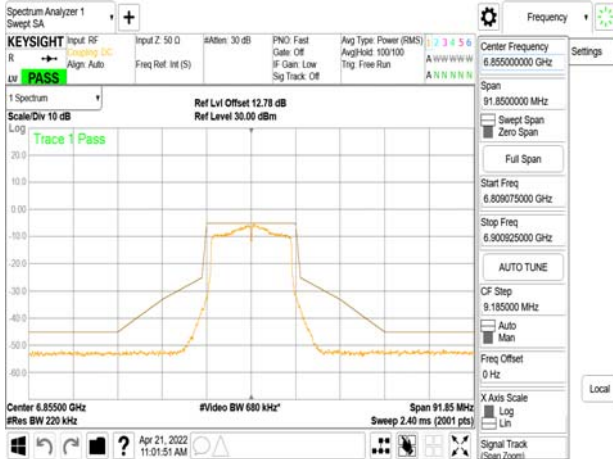
802.11a_20MHz_Chain0_6695MHz



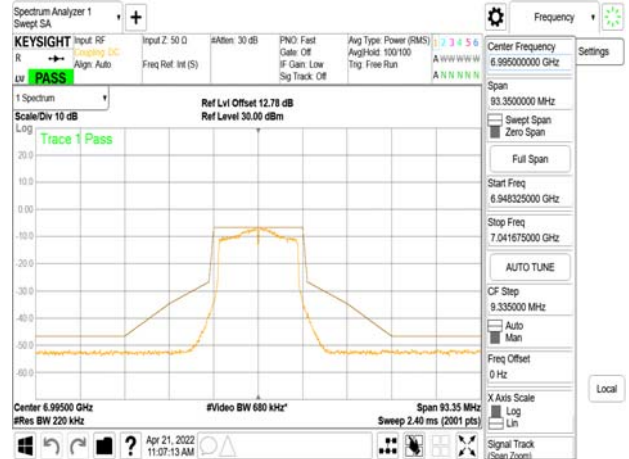
802.11a_20MHz_Chain0_6895MHz



802.11a_20MHz_Chain0_6855MHz



802.11a_20MHz_Chain0_6995MHz

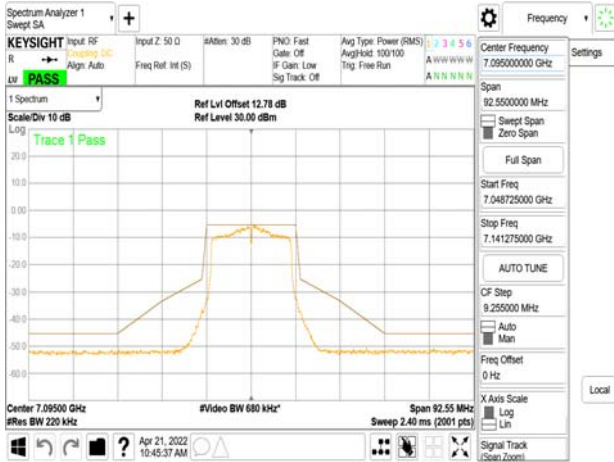


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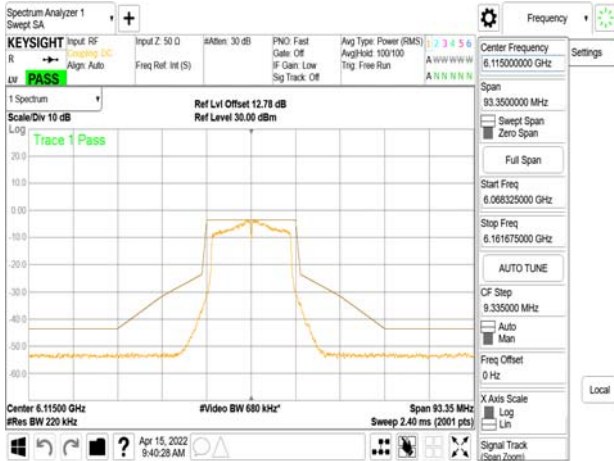
802.11a_20MHz_Chain0_7095MHz



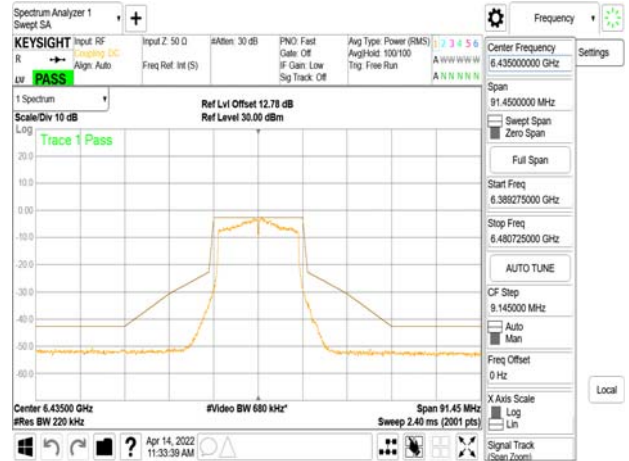
802.11a_20MHz_Chain1_6415MHz



802.11a_20MHz_Chain1_6115MHz



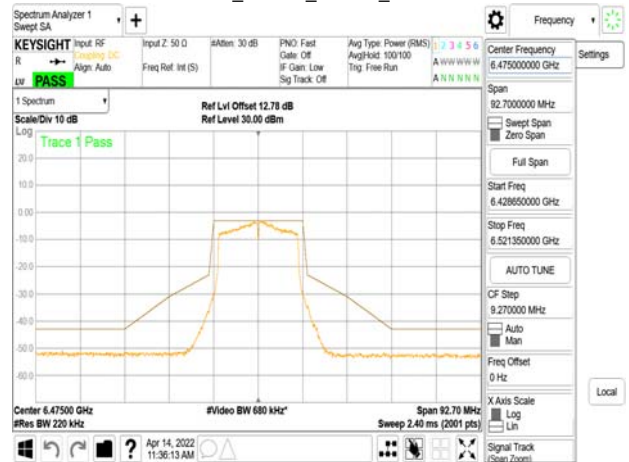
802.11a_20MHz_Chain1_6435MHz



802.11a_20MHz_Chain1_6275MHz



802.11a_20MHz_Chain1_6475MHz



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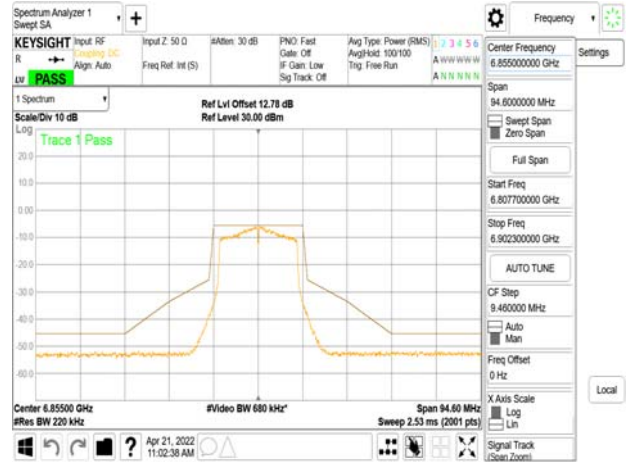
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802.11a_20MHz_Chain1_6515MHz



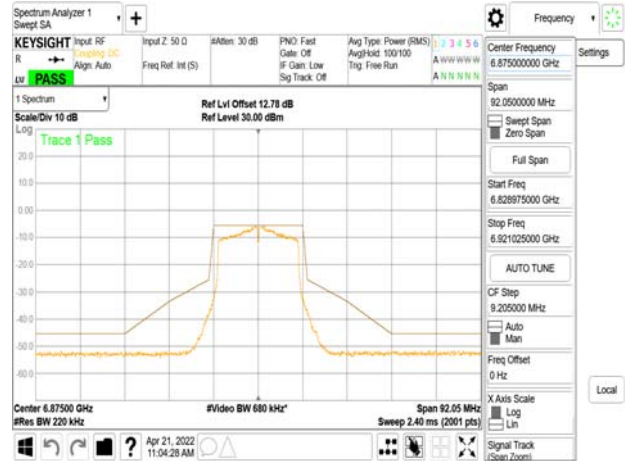
802.11a_20MHz_Chain1_6855MHz



802.11a_20MHz_Chain1_6535MHz



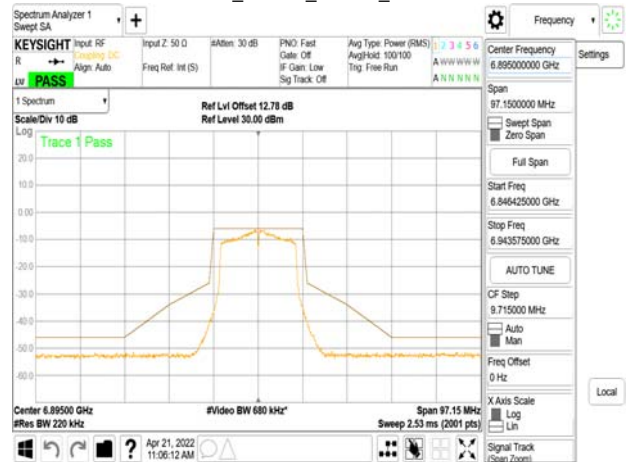
802.11a_20MHz_Chain1_6875MHz



802.11a_20MHz_Chain1_6695MHz



802.11a_20MHz_Chain1_6895MHz



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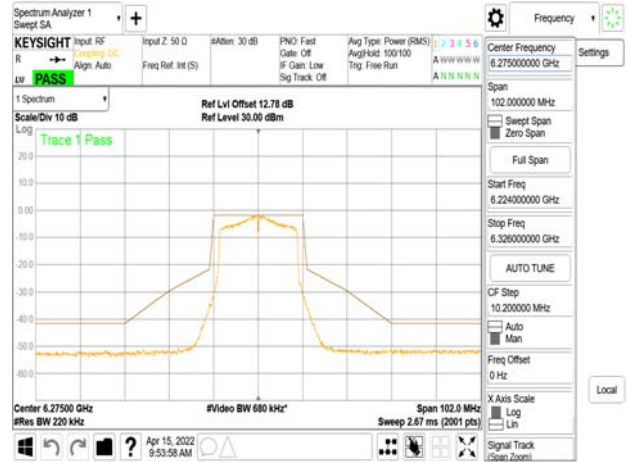
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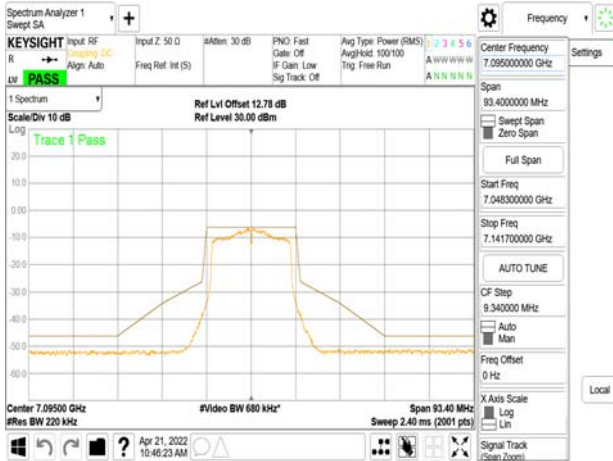
802.11a_20MHz_Chain1_6995MHz



802.11n_20MHz_Chain0_6275MHz



802.11a_20MHz_Chain1_7095MHz



802.11n_20MHz_Chain0_6415MHz



802.11n_20MHz_Chain0_6115MHz



802.11n_20MHz_Chain0_6435MHz



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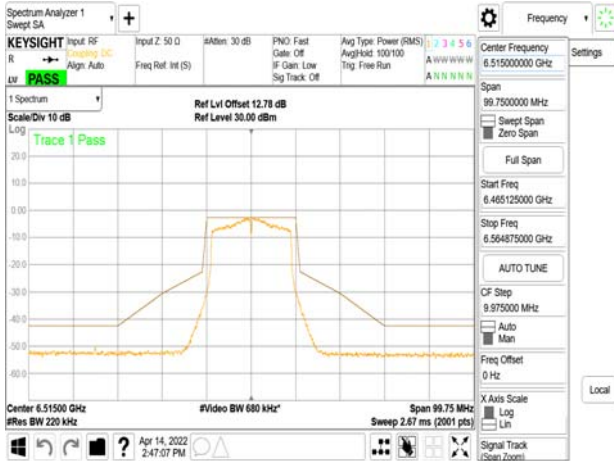
802.11n_20MHz_Chain0_6475MHz



802.11n_20MHz_Chain0_6695MHz



802.11n_20MHz_Chain0_6515MHz



802.11n_20MHz_Chain0_6855MHz



802.11n_20MHz_Chain0_6535MHz



802.11n_20MHz_Chain0_6875MHz

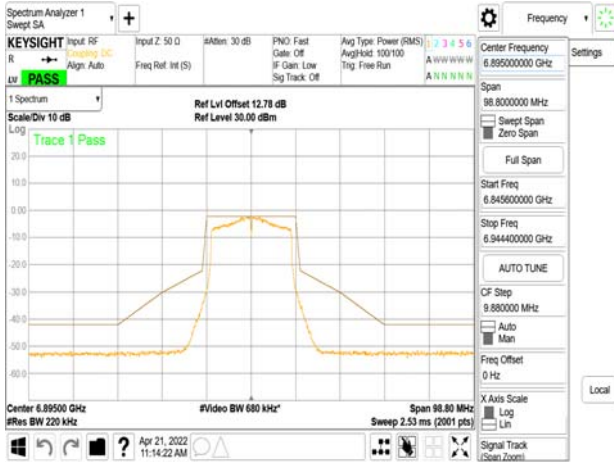


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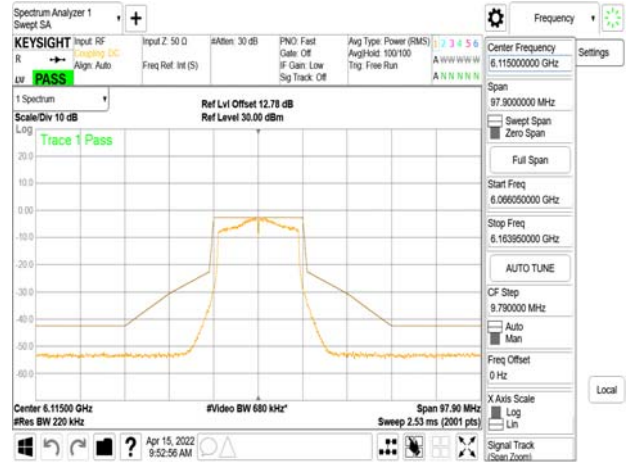
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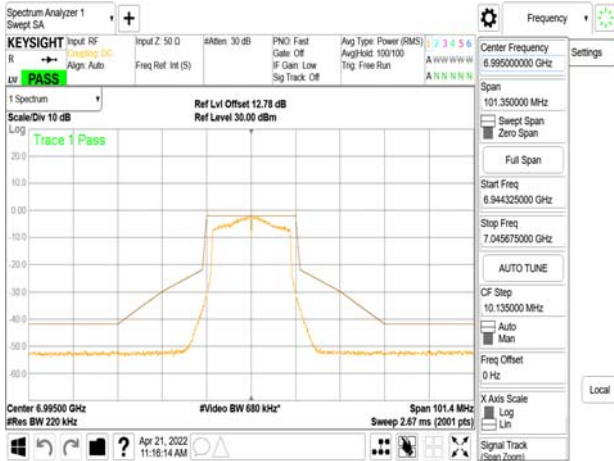
802.11n_20MHz_Chain0_6895MHz



802.11n_20MHz_Chain1_6115MHz



802.11n_20MHz_Chain0_6995MHz



802.11n_20MHz_Chain1_6275MHz



802.11n_20MHz_Chain0_7095MHz



802.11n_20MHz_Chain1_6415MHz



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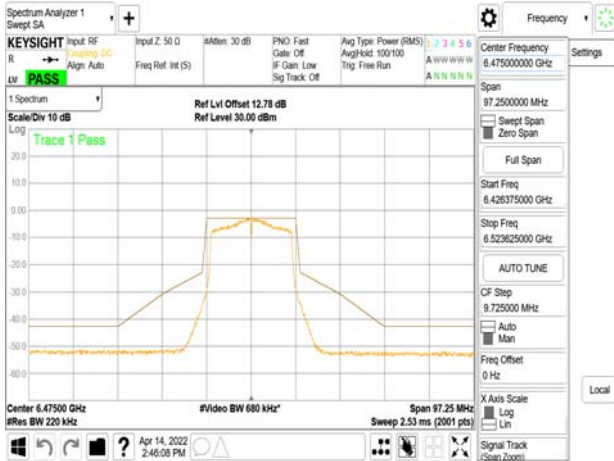
802.11n_20MHz_Chain1_6435MHz



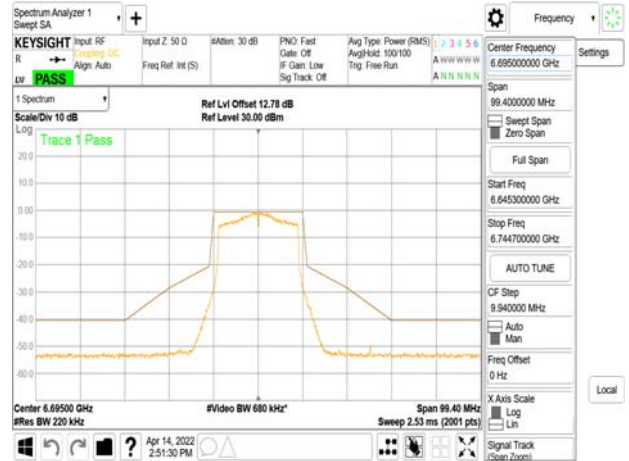
802.11n_20MHz_Chain1_6535MHz



802.11n_20MHz_Chain1_6475MHz



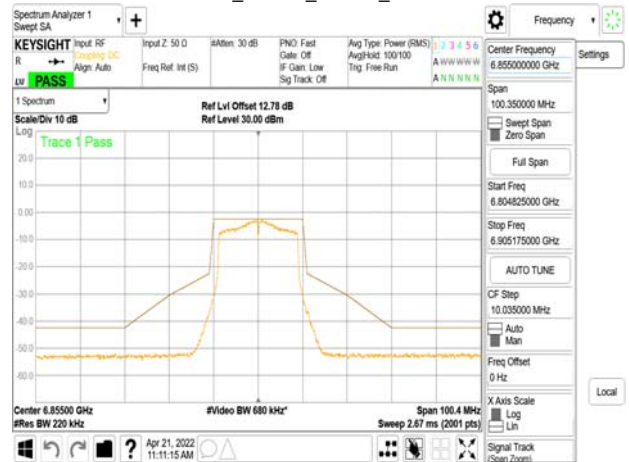
802.11n_20MHz_Chain1_6695MHz



802.11n_20MHz_Chain1_6515MHz



802.11n_20MHz_Chain1_6855MHz

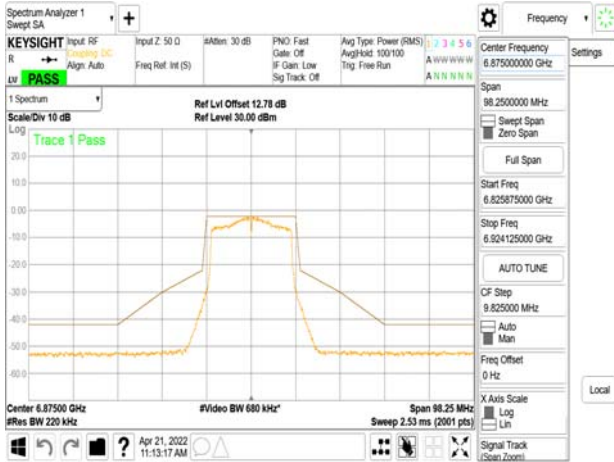


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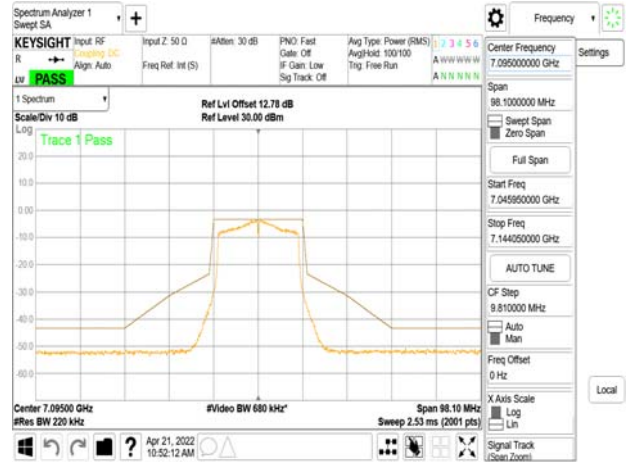
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802.11n_20MHz_Chain1_6875MHz



802.11n_20MHz_Chain1_7095MHz



802.11n_20MHz_Chain1_6895MHz



802.11n_40MHz_Chain0_6125MHz



802.11n_20MHz_Chain1_6995MHz



802.11n_40MHz_Chain0_6285MHz



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802.11n_40MHz_Chain0_6405MHz



802.11n_40MHz_Chain0_6525MHz



802.11n_40MHz_Chain0_6445MHz



802.11n_40MHz_Chain0_6565MHz



802.11n_40MHz_Chain0_6485MHz



802.11n_40MHz_Chain0_6685MHz



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802.11n_40MHz_Chain0_6845MHz



802.11n_40MHz_Chain0_7005MHz



802.11n_40MHz_Chain0_6885MHz



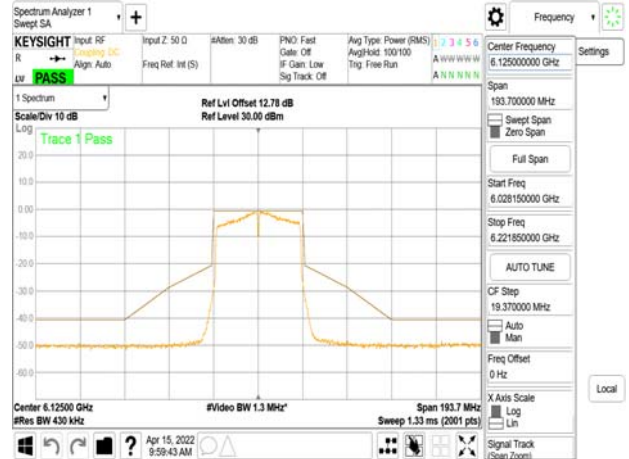
802.11n_40MHz_Chain0_7085MHz



802.11n_40MHz_Chain0_6925MHz



802.11n_40MHz_Chain1_6125MHz



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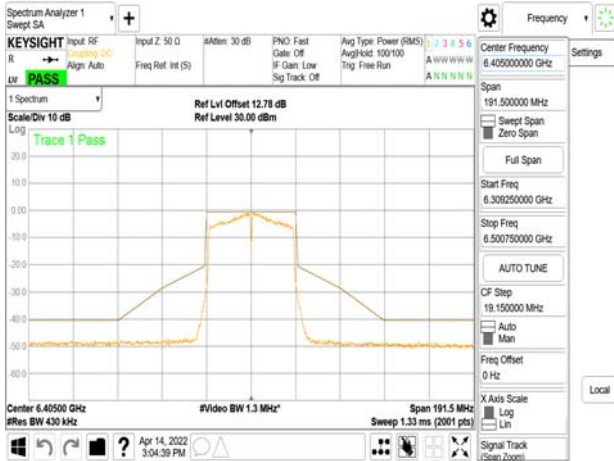
802.11n_40MHz_Chain1_6285MHz



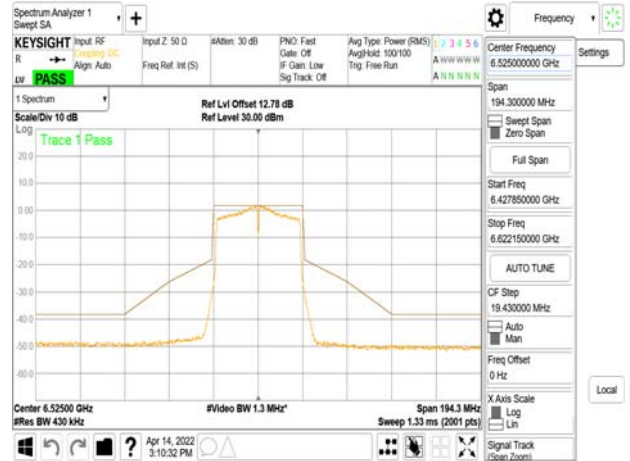
802.11n_40MHz_Chain1_6485MHz



802.11n_40MHz_Chain1_6405MHz



802.11n_40MHz_Chain1_6525MHz



802.11n_40MHz_Chain1_6445MHz



802.11n_40MHz_Chain1_6565MHz



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802.11n_40MHz_Chain1_6685MHz



802.11n_40MHz_Chain1_6925MHz



802.11n_40MHz_Chain1_6845MHz



802.11n_40MHz_Chain1_7005MHz



802.11n_40MHz_Chain1_6885MHz



802.11n_40MHz_Chain1_7085MHz



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802.11ac_80MHz_Chain0_6145MHz



802.11ac_80MHz_Chain0_6465MHz



802.11ac_80MHz_Chain0_6305MHz



802.11ac_80MHz_Chain0_6545MHz



802.11ac_80MHz_Chain0_6385MHz



802.11ac_80MHz_Chain0_6625MHz



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802.11ac_80MHz_Chain0_6705MHz



802.11ac_80MHz_Chain0_6945MHz



802.11ac_80MHz_Chain0_6785MHz



802.11ac_80MHz_Chain0_7025MHz



802.11ac_80MHz_Chain0_6865MHz



802.11ac_80MHz_Chain1_6145MHz



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802.11ac_80MHz_Chain1_6305MHz



802.11ac_80MHz_Chain1_6545MHz



802.11ac_80MHz_Chain1_6385MHz



802.11ac_80MHz_Chain1_6625MHz



802.11ac_80MHz_Chain1_6465MHz



802.11ac_80MHz_Chain1_6705MHz



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802.11ac_80MHz_Chain1_6785MHz



802.11ac_80MHz_Chain1_7025MHz



802.11ac_80MHz_Chain1_6865MHz



802.11ac_160MHz_Chain0_6185MHz



802.11ac_80MHz_Chain1_6945MHz



802.11ac_160MHz_Chain0_6345MHz



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802.11ac_160MHz_Chain0_6505MHz



802.11ac_160MHz_Chain0_6985MHz



802.11ac_160MHz_Chain0_6665MHz



802.11ac_160MHz_Chain1_6185MHz



802.11ac_160MHz_Chain0_6825MHz



802.11ac_160MHz_Chain1_6345MHz



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802.11ac_160MHz_Chain1_6505MHz



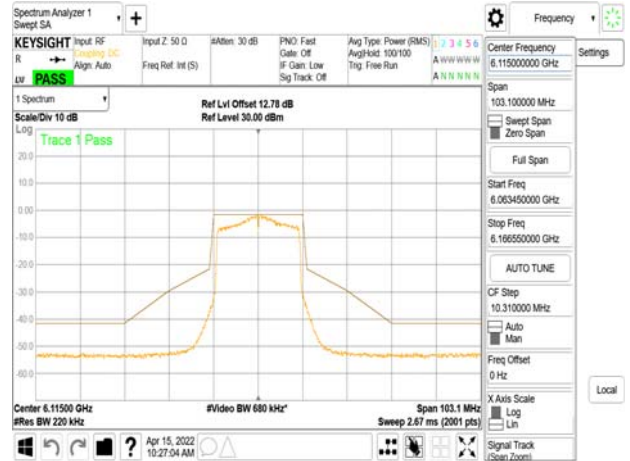
802.11ac_160MHz_Chain1_6985MHz



802.11ac_160MHz_Chain1_6665MHz



802.11ax_20MHz_Chain0_6115MHz



802.11ac_160MHz_Chain1_6825MHz



802.11ax_20MHz_Chain0_6275MHz



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