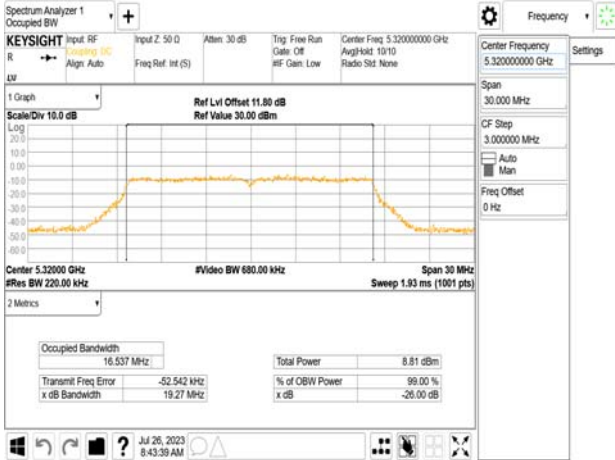
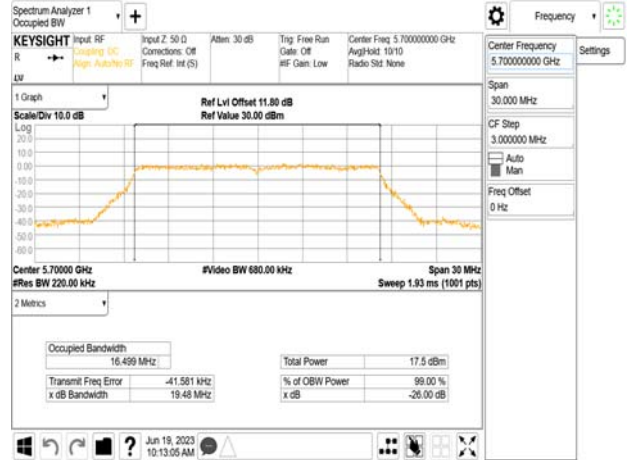


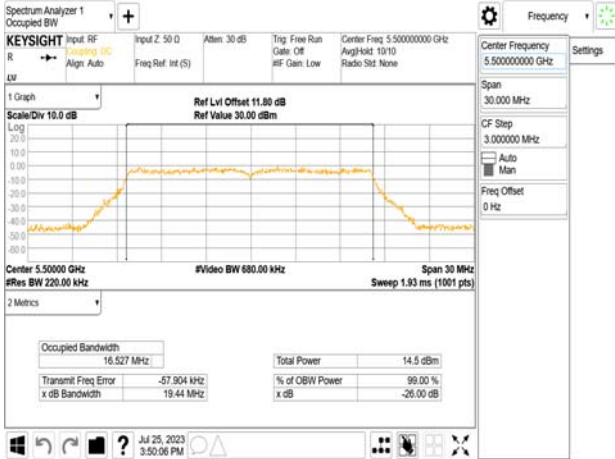
802.11a_20MHz_Chain1_5320MHz



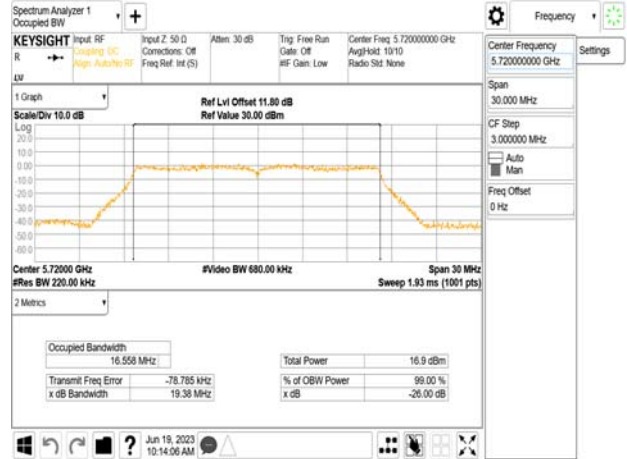
802.11a_20MHz_Chain1_5700MHz



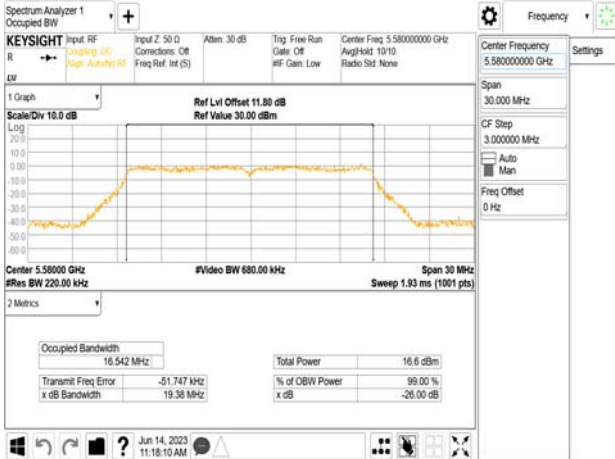
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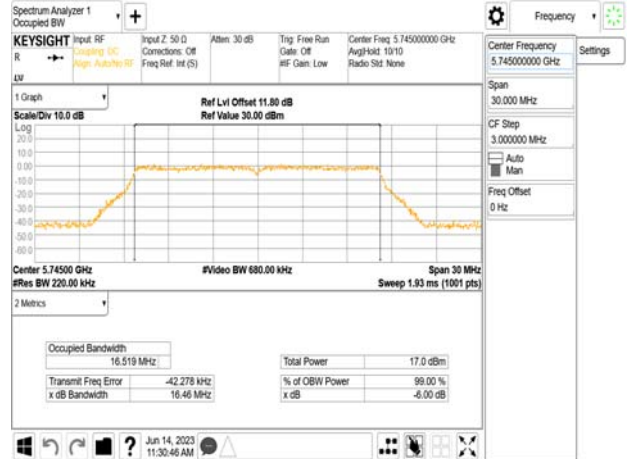
802.11a_20MHz_Chain1_5720MHz



802.11a_20MHz_Chain1_5580MHz



802.11a_20MHz_Chain1_5745MHz

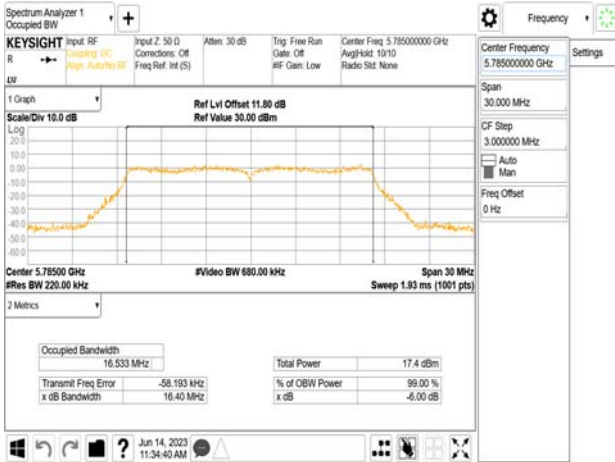


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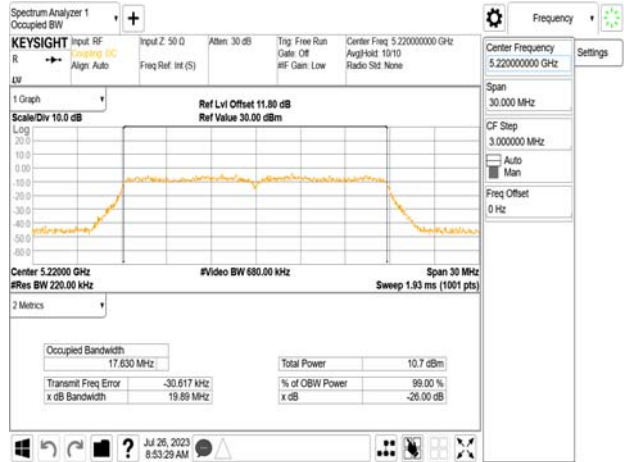
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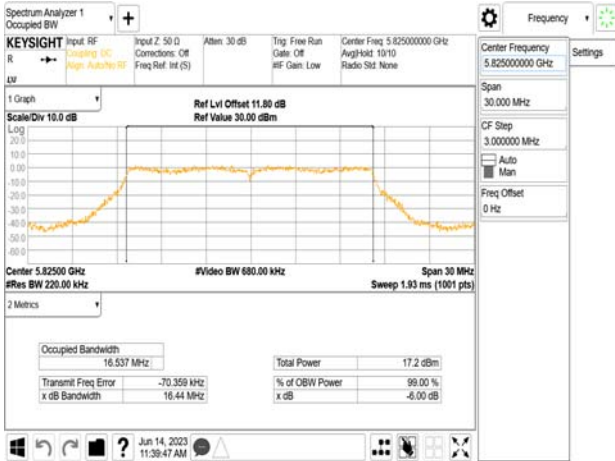
802.11a_20MHz_Chain1_5785MHz



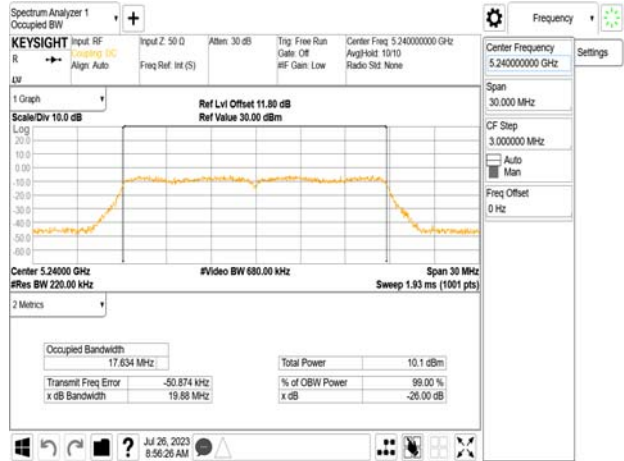
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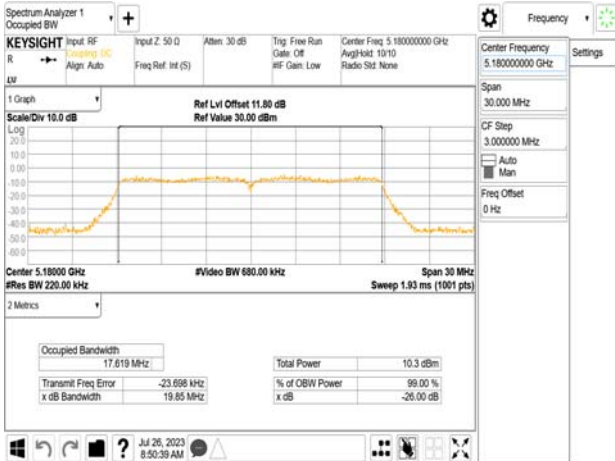
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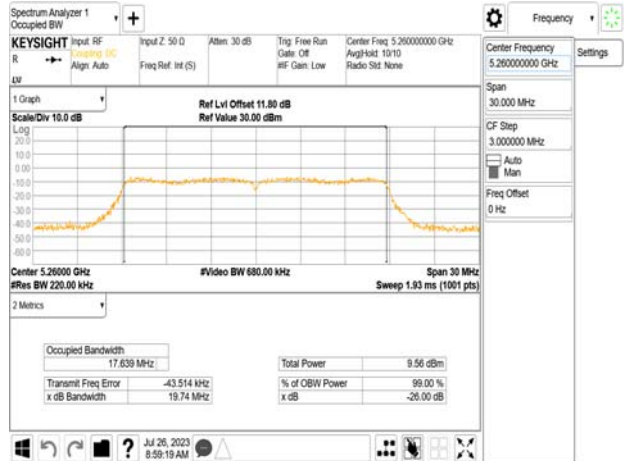
802.11n_20MHz_Chain0_5240MHz



802.11n_20MHz_Chain0_5180MHz



802.11n_20MHz_Chain0_5260MHz



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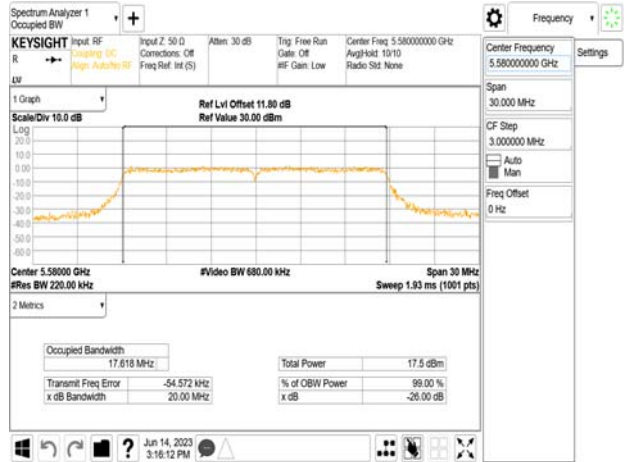
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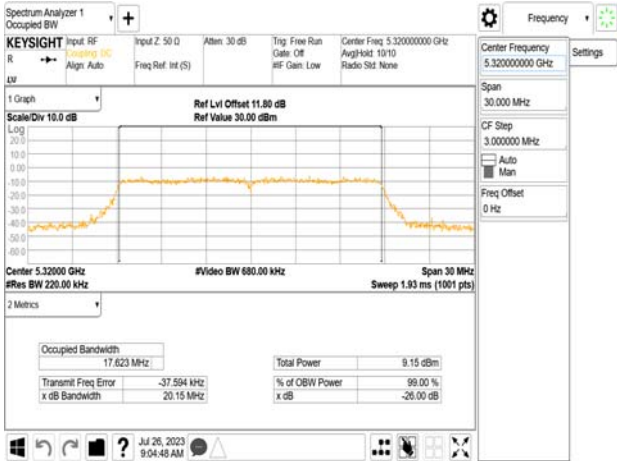
802.11n_20MHz_Chain0_5300MHz



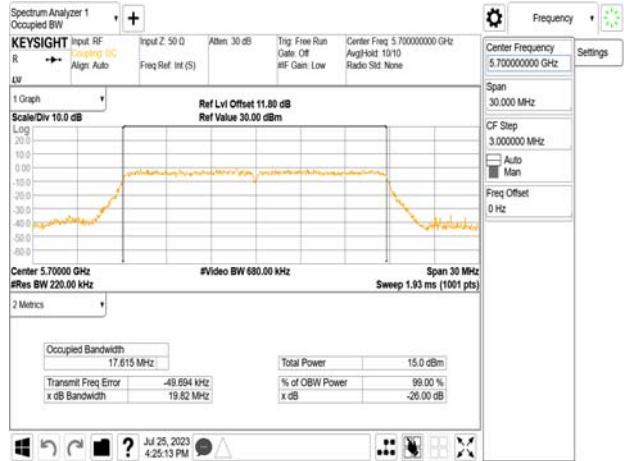
802.11n_20MHz_Chain0_5580MHz



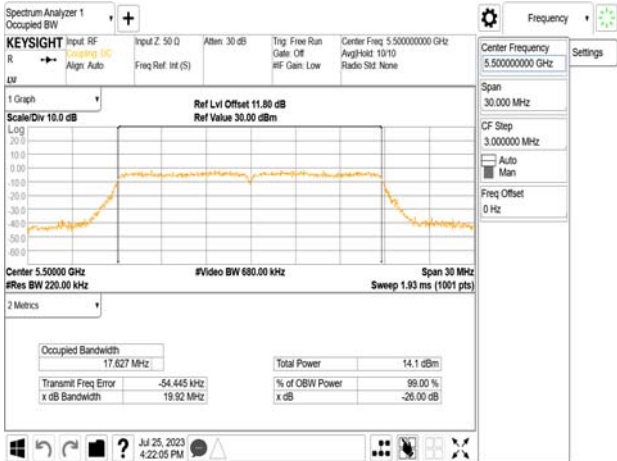
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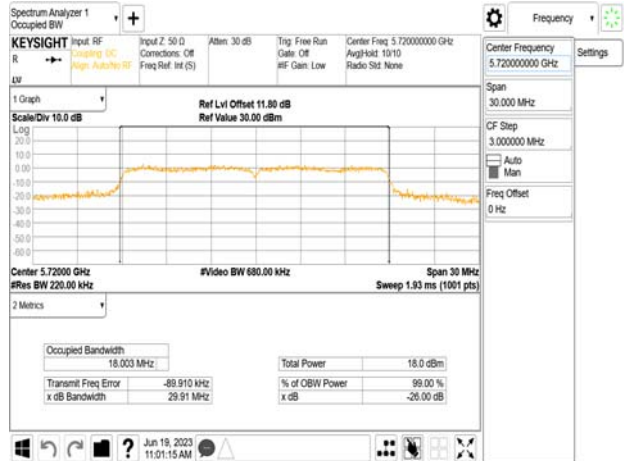
802.11n_20MHz_Chain0_5700MHz



802.11n_20MHz_Chain0_5500MHz



802.11n_20MHz_Chain0_5720MHz

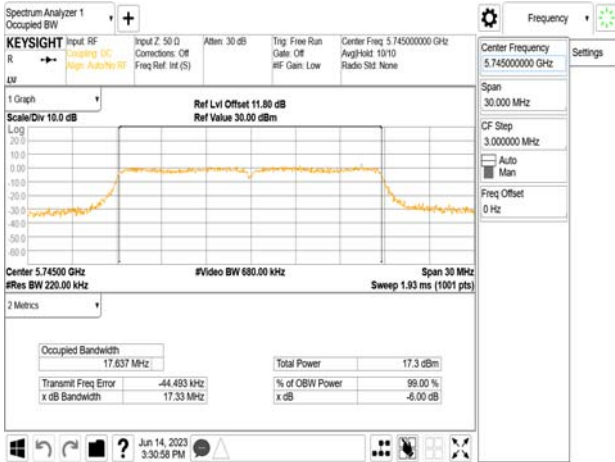


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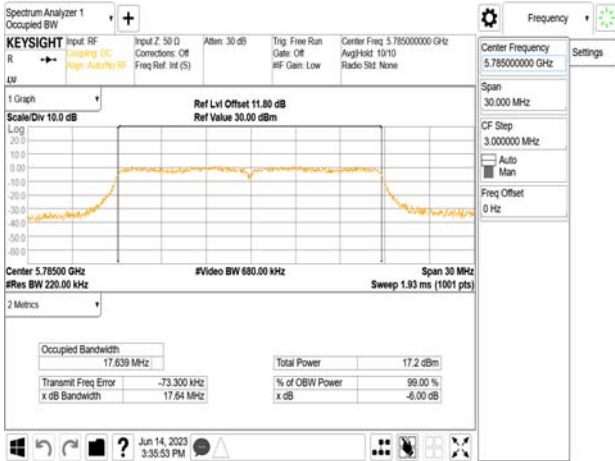
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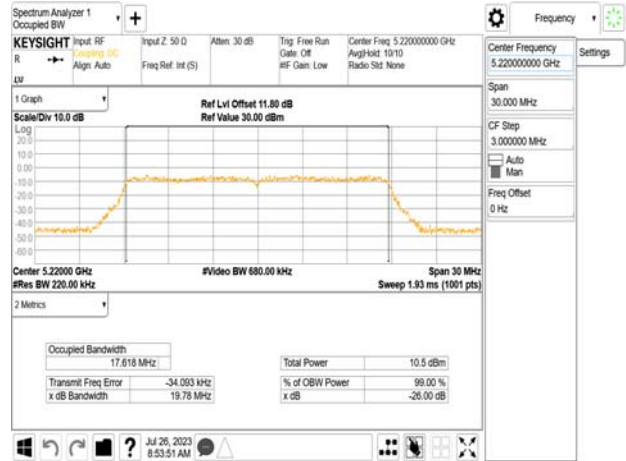
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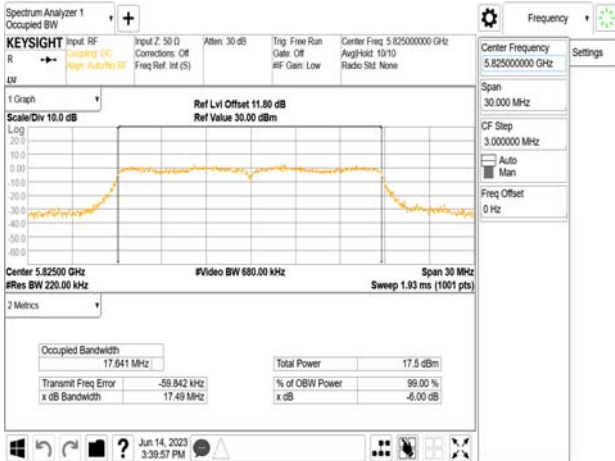
802.11n_20MHz_Chain0_5785MHz



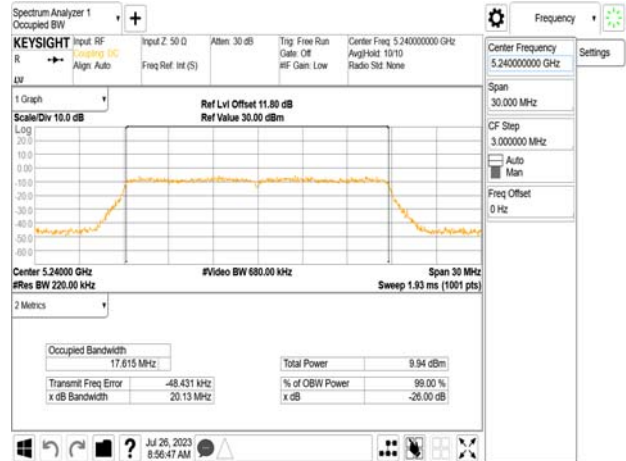
802.11n_20MHz_Chain1_5220MHz



802.11n_20MHz_Chain0_5825MHz



802.11n_20MHz_Chain1_5240MHz

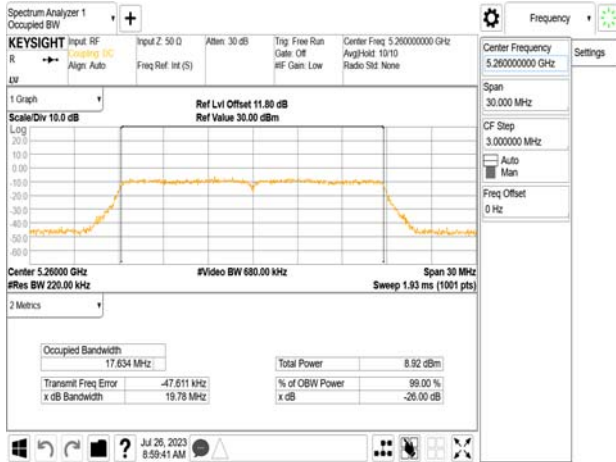


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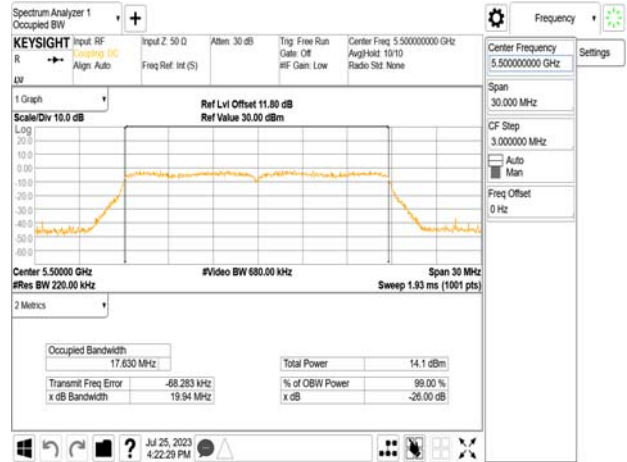
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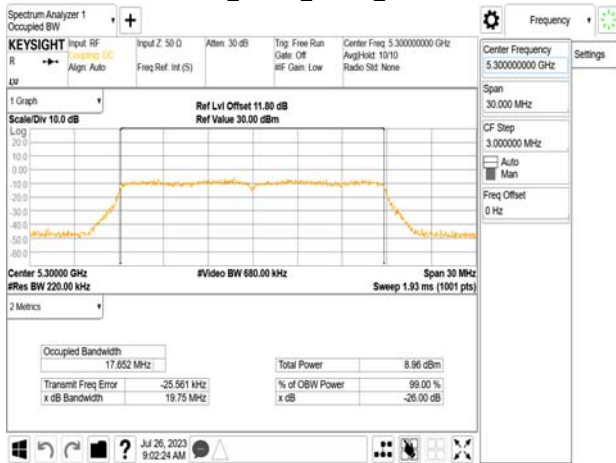
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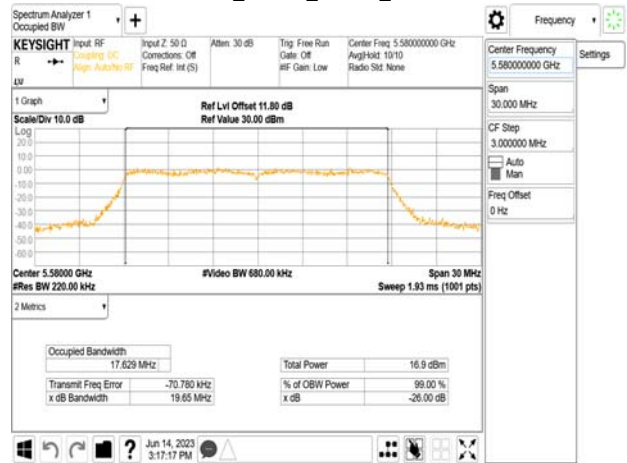
802.11n_20MHz_Chain1_5500MHz



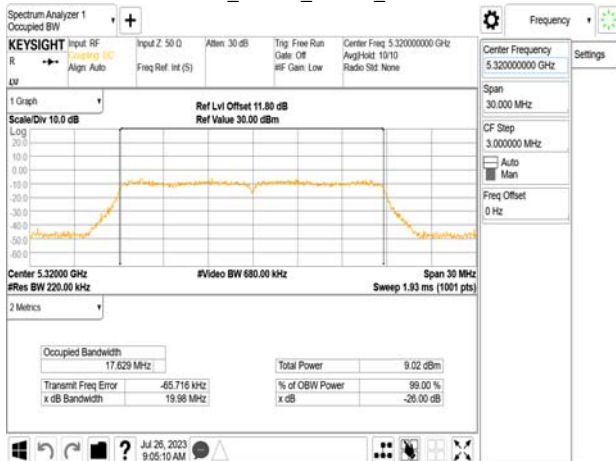
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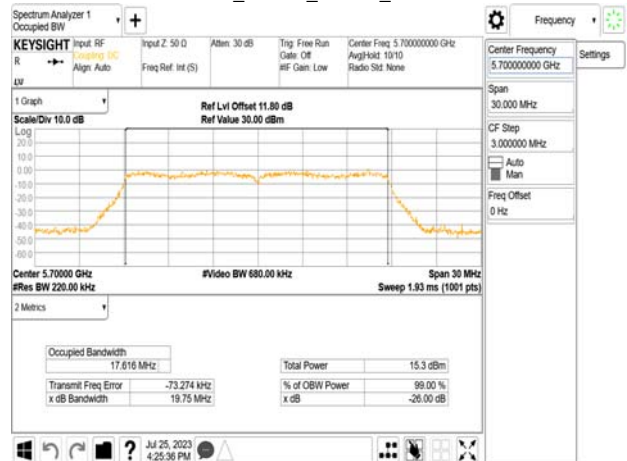
802.11n_20MHz_Chain1_5580MHz



802.11n_20MHz_Chain1_5320MHz



802.11n_20MHz_Chain1_5700MHz

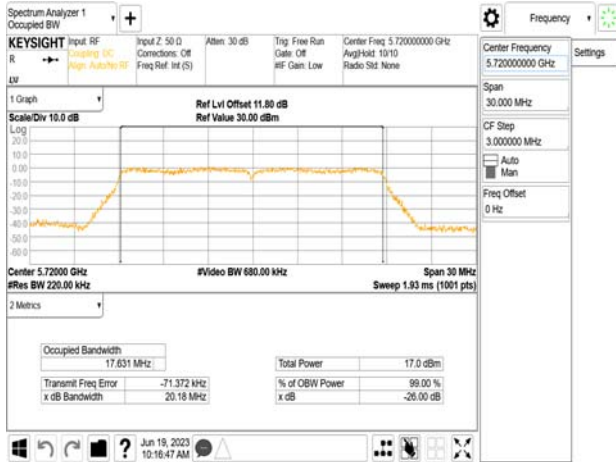


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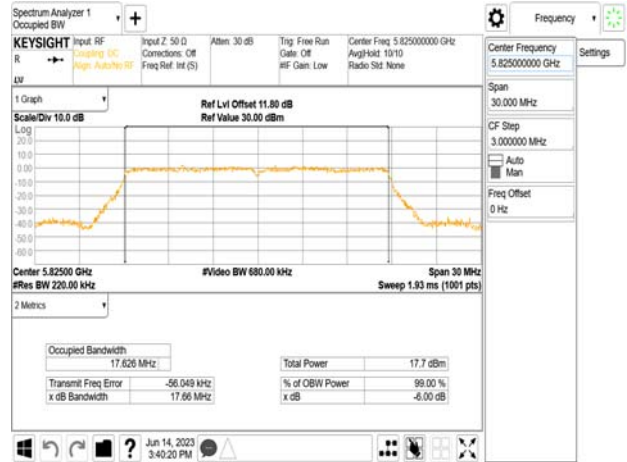
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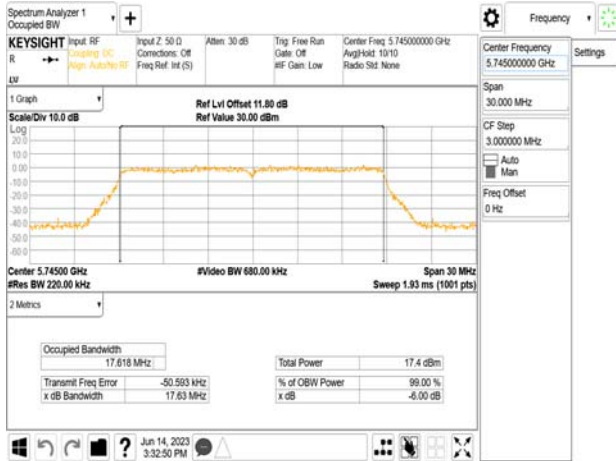
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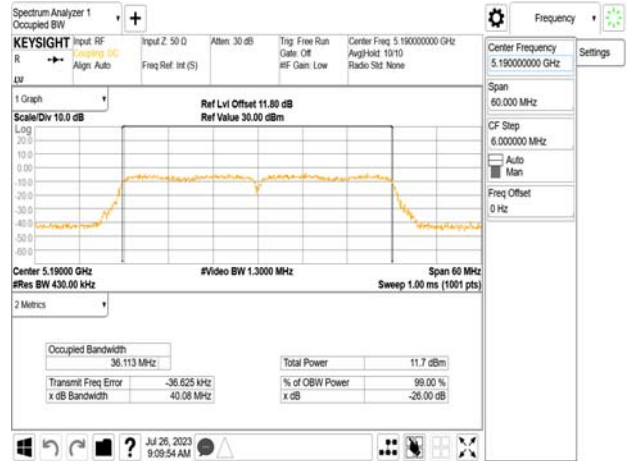
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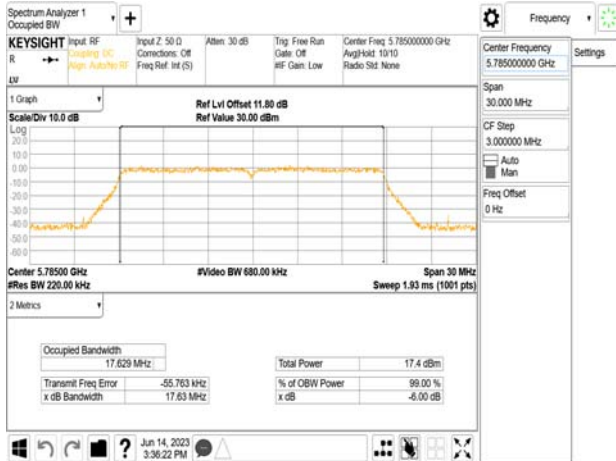
802.11n_20MHz_Chain1_5745MHz



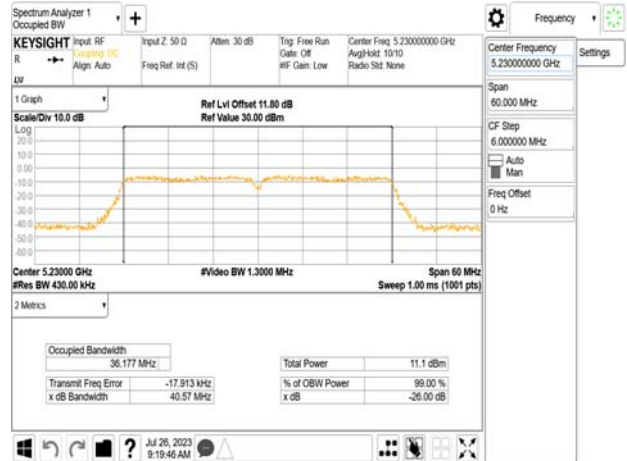
802.11n_40MHz_Chain0_5190MHz



802.11n_20MHz_Chain1_5785MHz



802.11n_40MHz_Chain0_5230MHz



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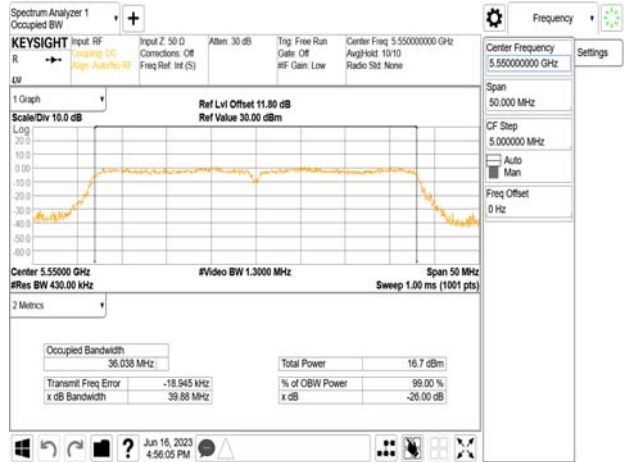
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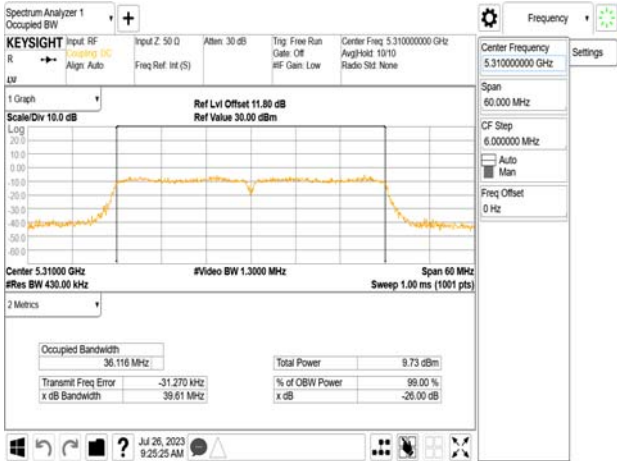
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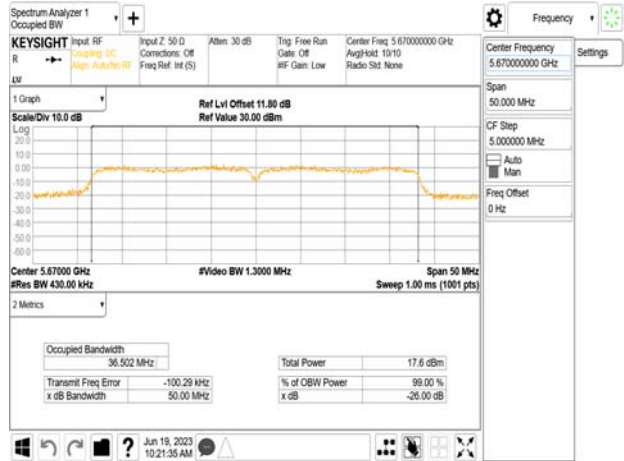
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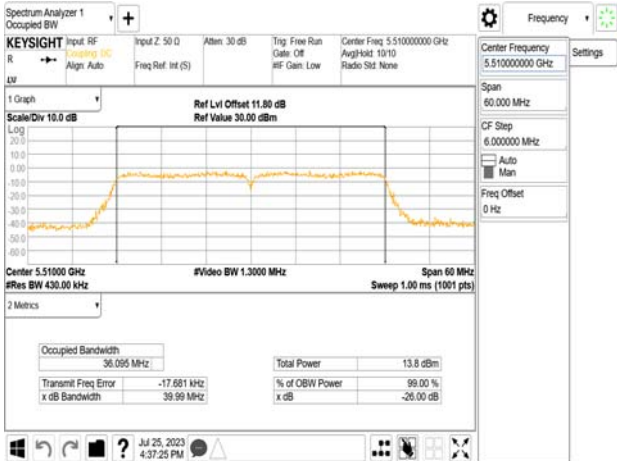
802.11n_40MHz_Chain0_5310MHz



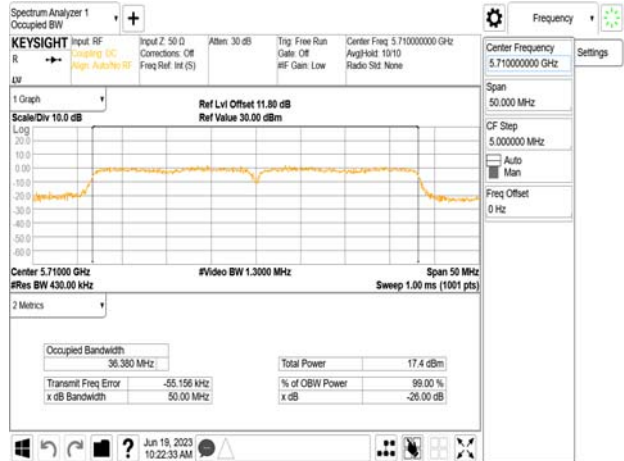
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802.11n_40MHz_Chain0_5510MHz



802.11n_40MHz_Chain0_5710MHz

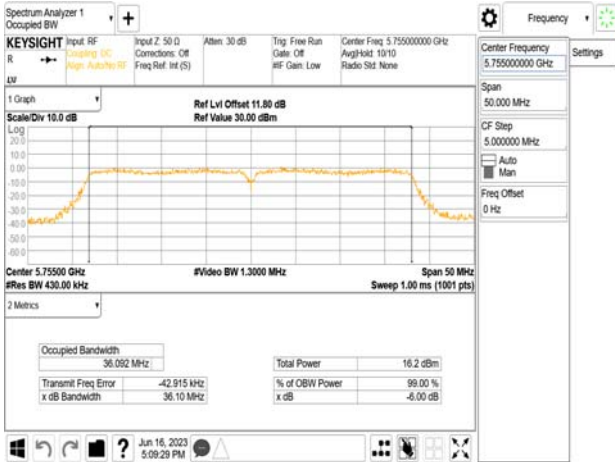


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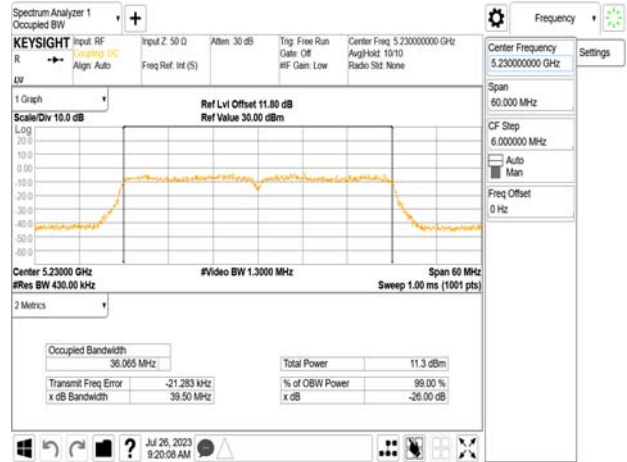
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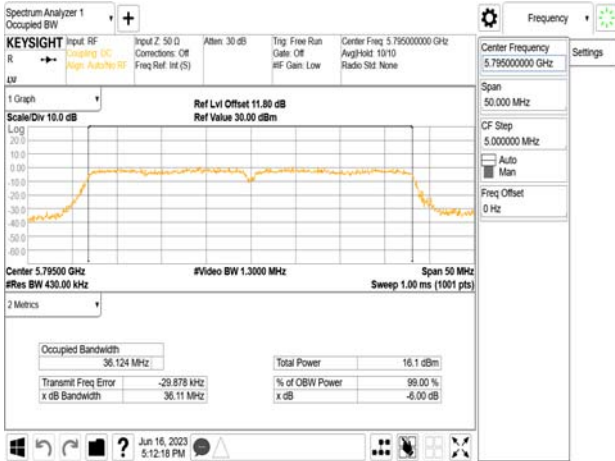
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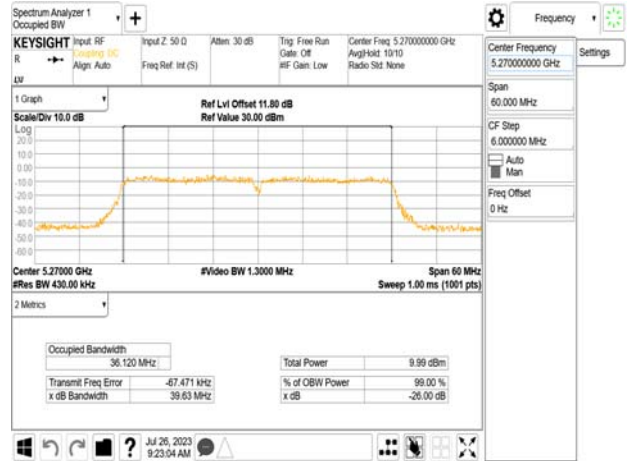
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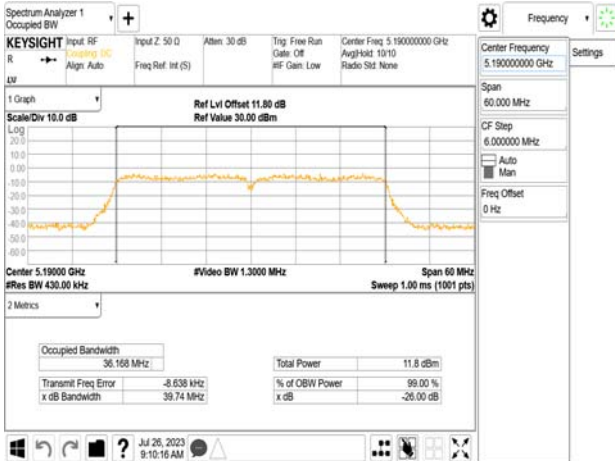
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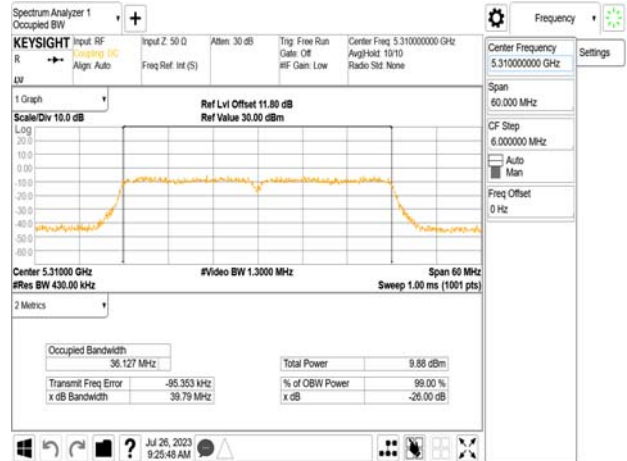
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802.11n_40MHz_Chain1_5190MHz



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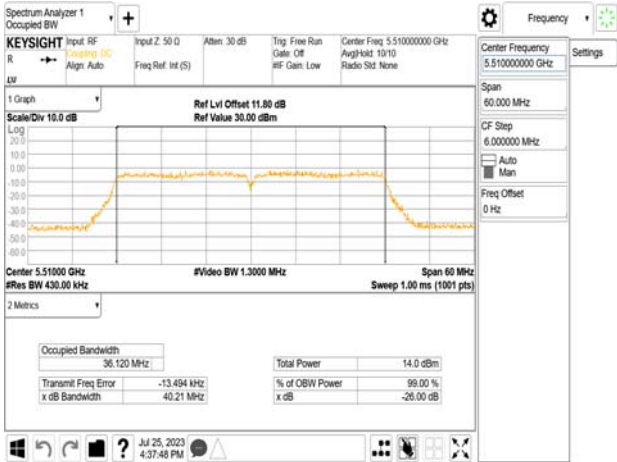


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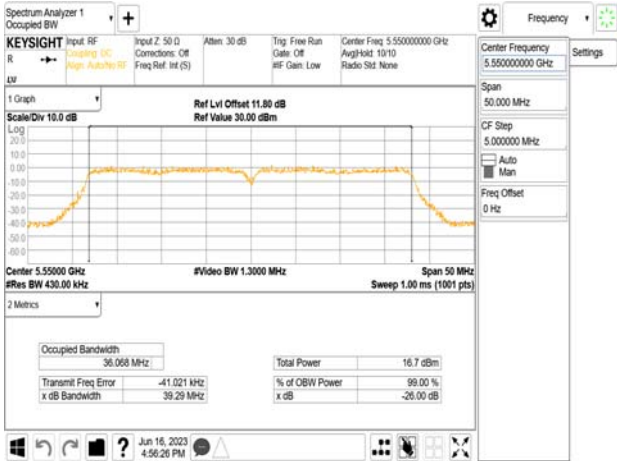
802.11n_40MHz_Chain1_5510MHz



802.11n_40MHz_Chain1_5710MHz



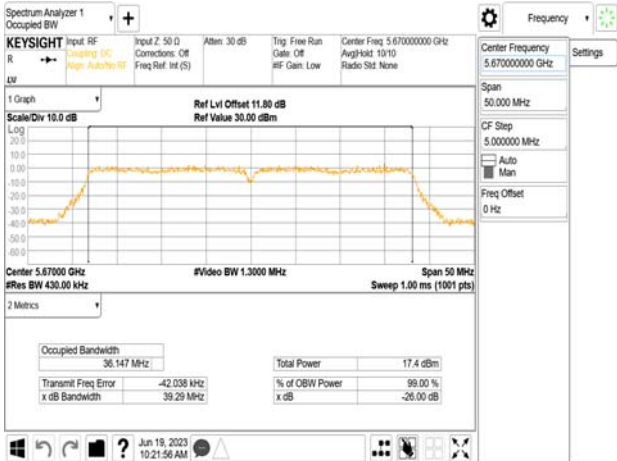
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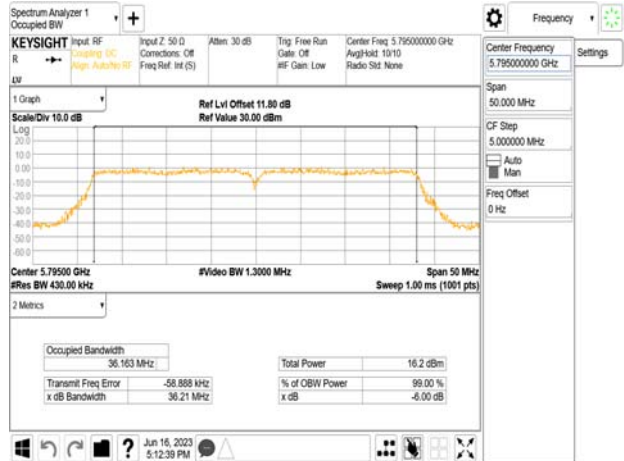
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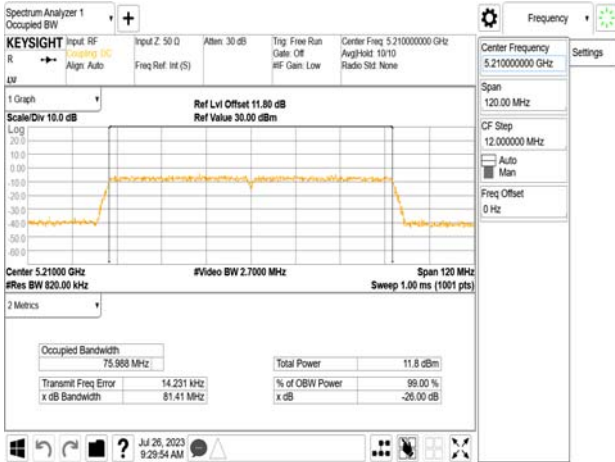


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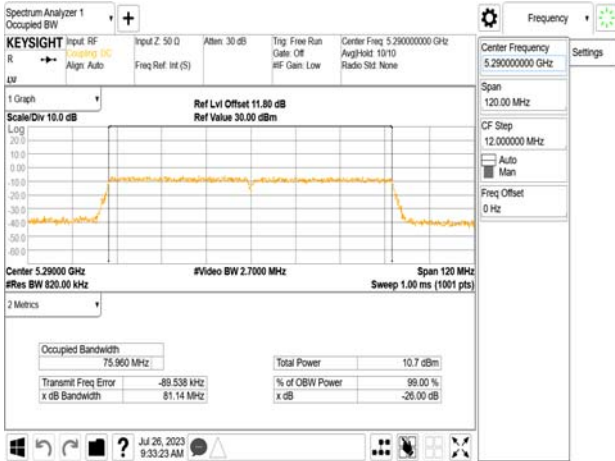
802.11ac_80MHz_Chain0_5210MHz



802.11ac_80MHz_Chain0_5610MHz



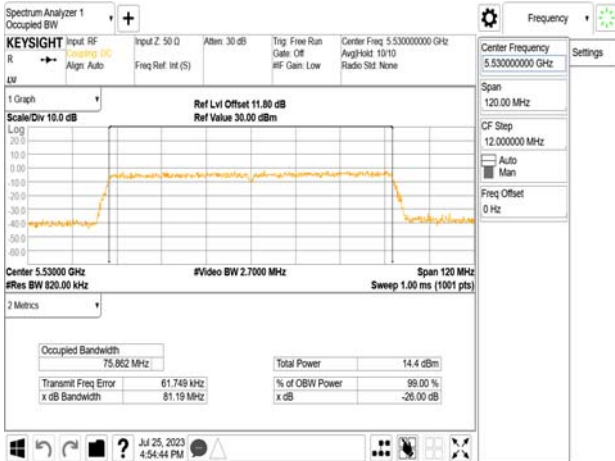
802.11ac_80MHz_Chain0_5290MHz



802.11ac_80MHz_Chain0_5690MHz



802.11ac_80MHz_Chain0_5530MHz



802.11ac_80MHz_Chain0_5775MHz

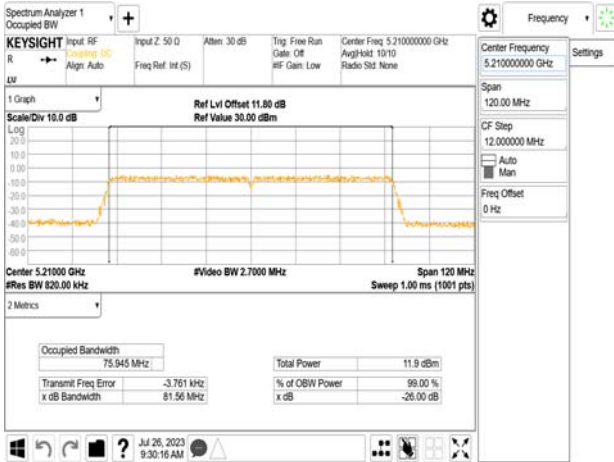


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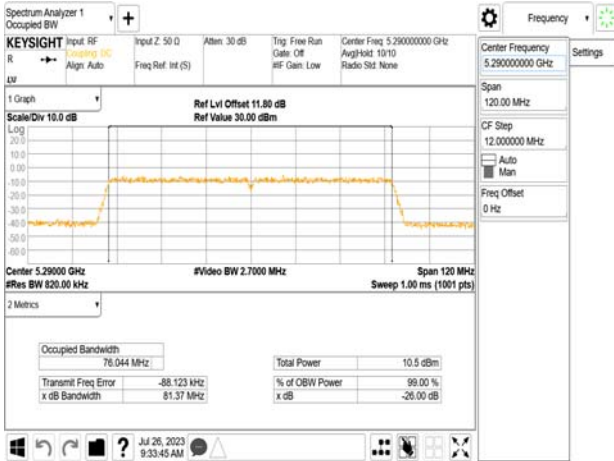
802.11ac_80MHz_Chain1_5210MHz



802.11ac_80MHz_Chain1_5610MHz



802.11ac_80MHz_Chain1_5290MHz



802.11ac_80MHz_Chain1_5690MHz



802.11ac_80MHz_Chain1_5530MHz



802.11ac_80MHz_Chain1_5775MHz

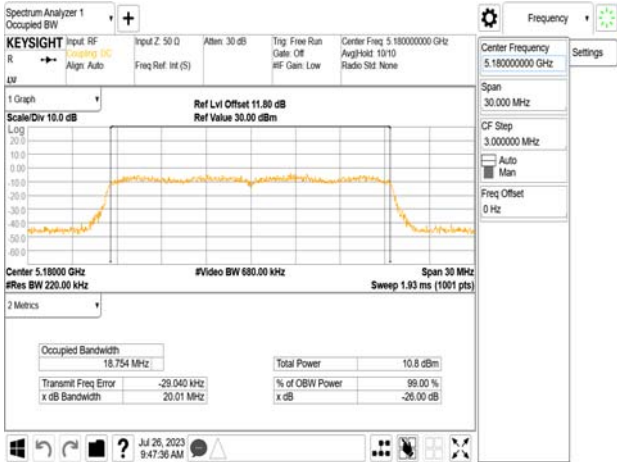


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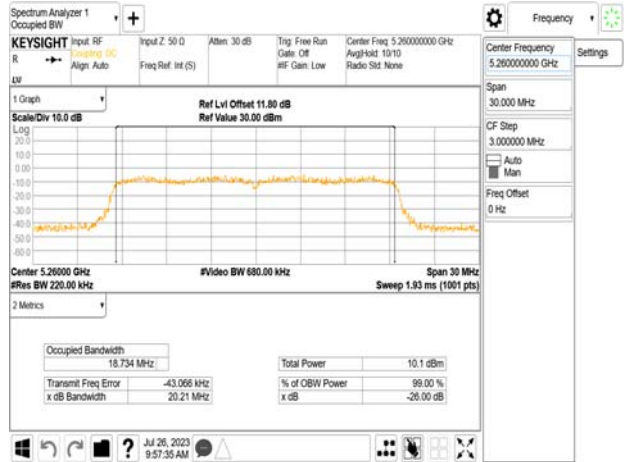
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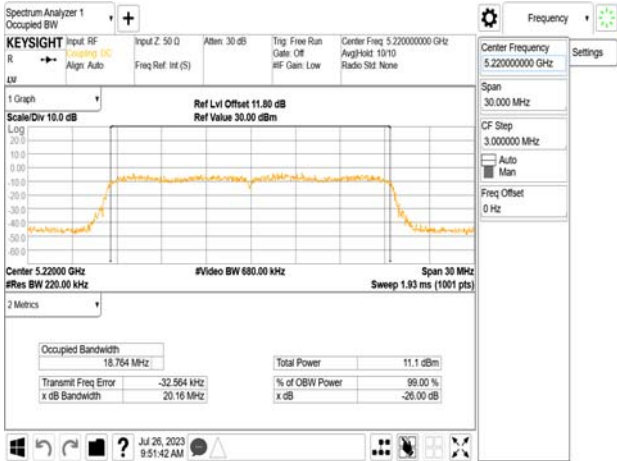
802.11ax_20MHz_Chain0_5180MHz



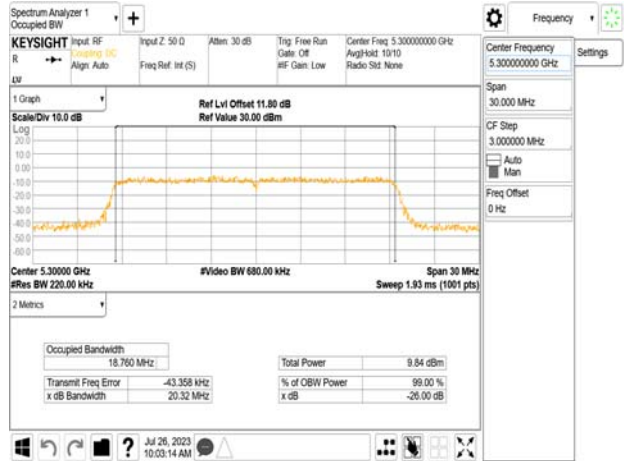
802.11ax_20MHz_Chain0_5260MHz



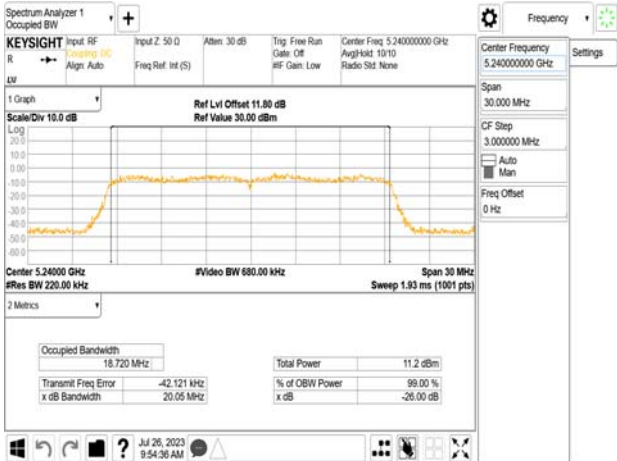
802.11ax_20MHz_Chain0_5220MHz



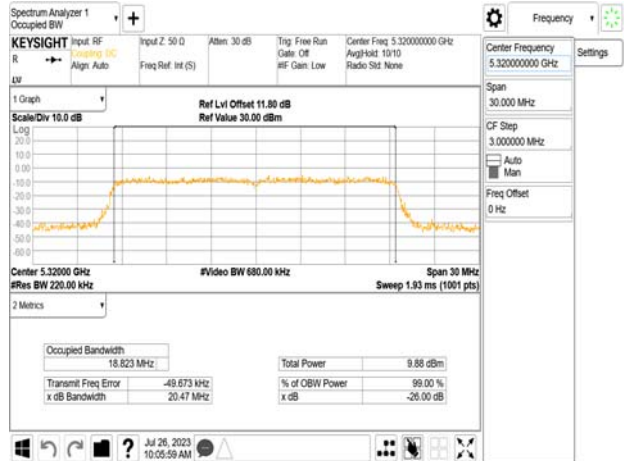
802.11ax_20MHz_Chain0_5300MHz



802.11ax_20MHz_Chain0_5240MHz



802.11ax_20MHz_Chain0_5320MHz

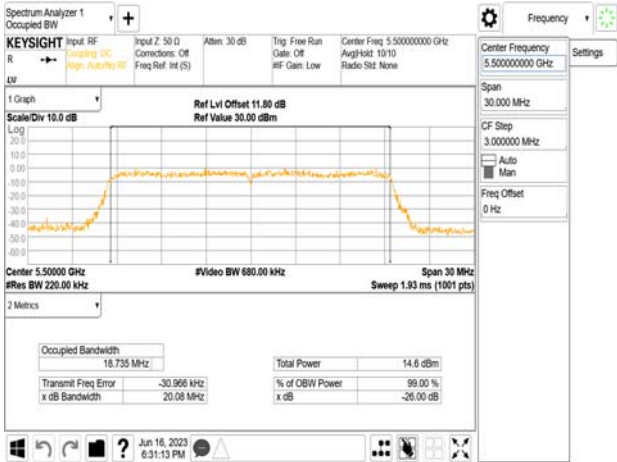


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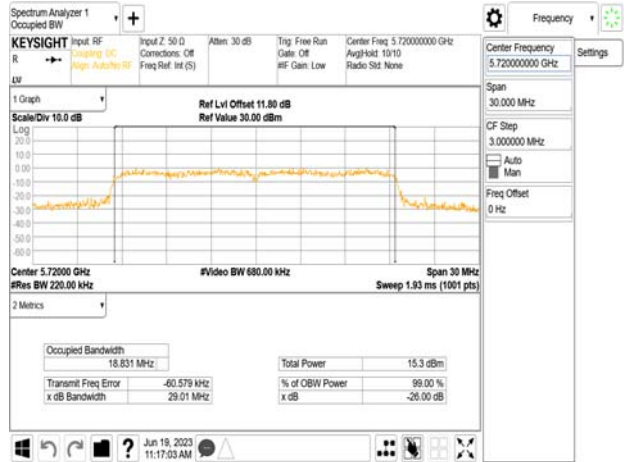
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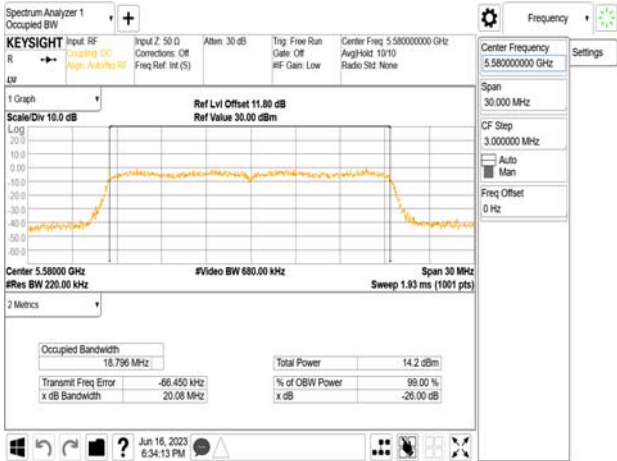
802.11ax_20MHz_Chain0_5500MHz



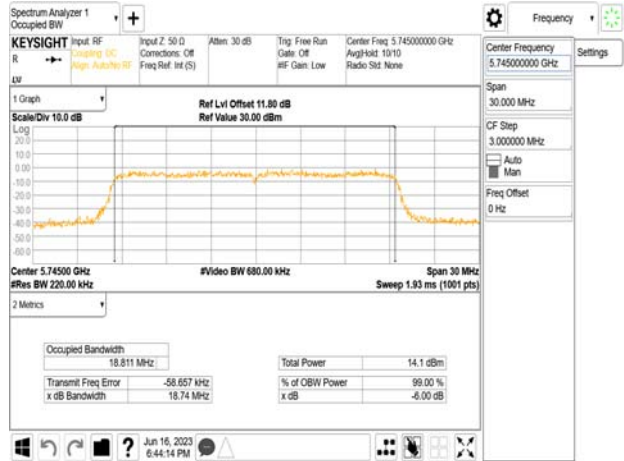
802.11ax_20MHz_Chain0_5720MHz



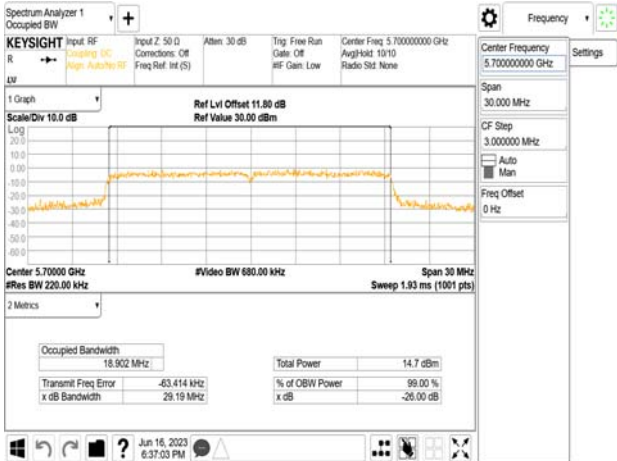
802.11ax_20MHz_Chain0_5580MHz



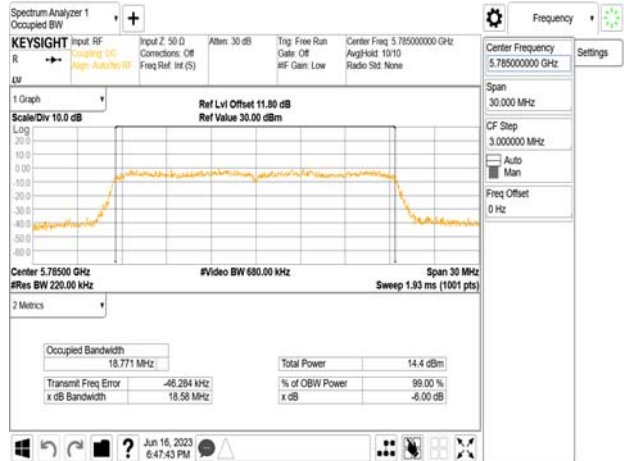
802.11ax_20MHz_Chain0_5745MHz



802.11ax_20MHz_Chain0_5700MHz



802.11ax_20MHz_Chain0_5785MHz

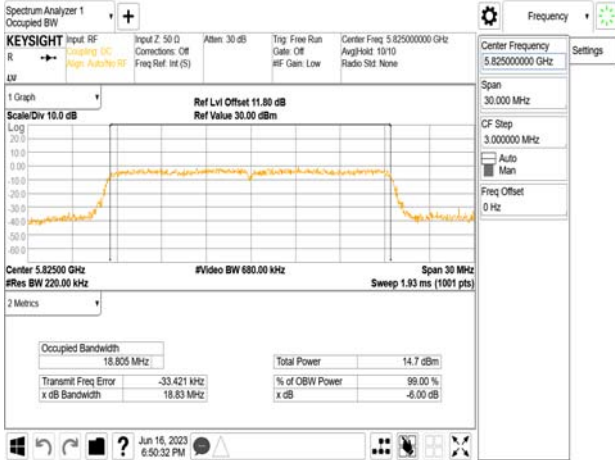


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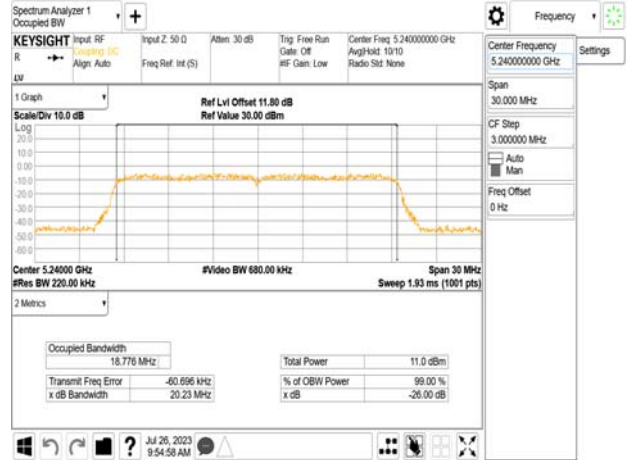
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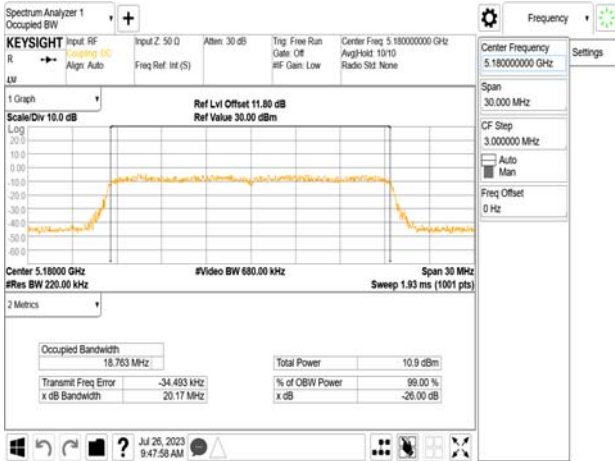
802.11ax_20MHz_Chain0_5825MHz



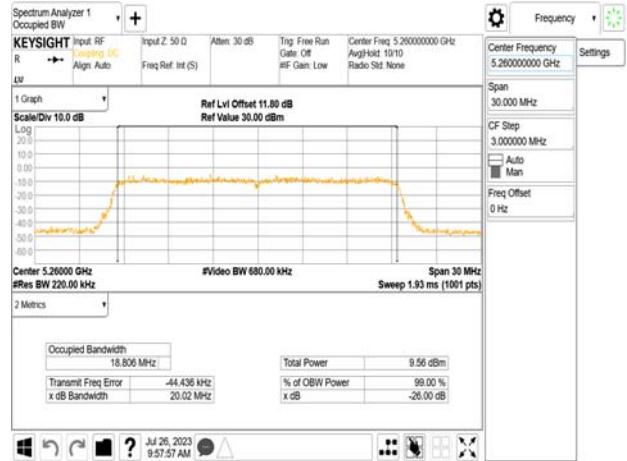
802.11ax_20MHz_Chain1_5240MHz



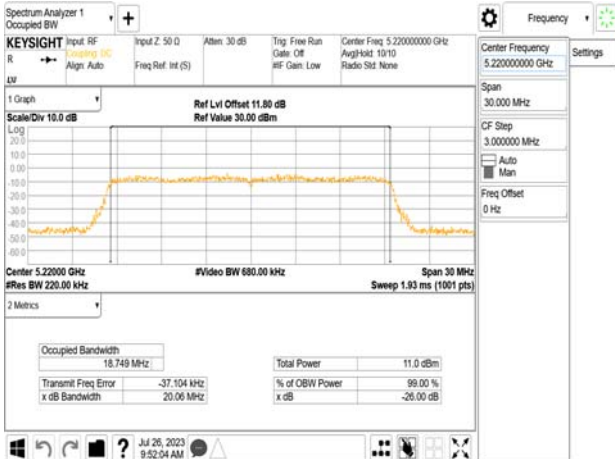
802.11ax_20MHz_Chain1_5180MHz



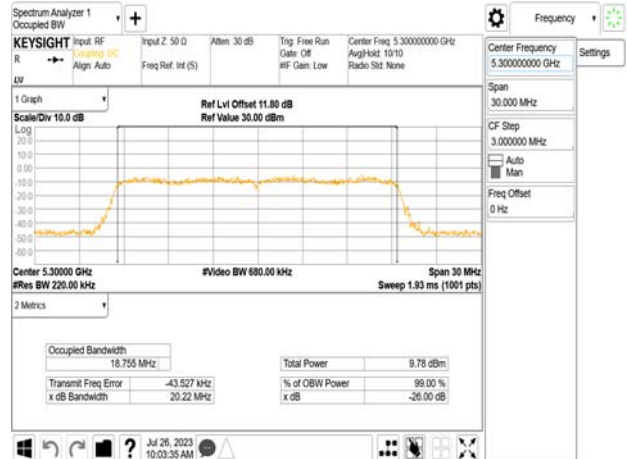
802.11ax_20MHz_Chain1_5260MHz



802.11ax_20MHz_Chain1_5220MHz



802.11ax_20MHz_Chain1_5300MHz

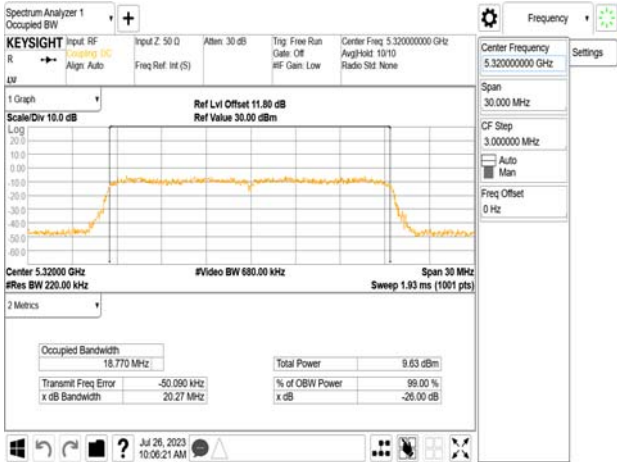


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802.11ax_20MHz_Chain1_5320MHz



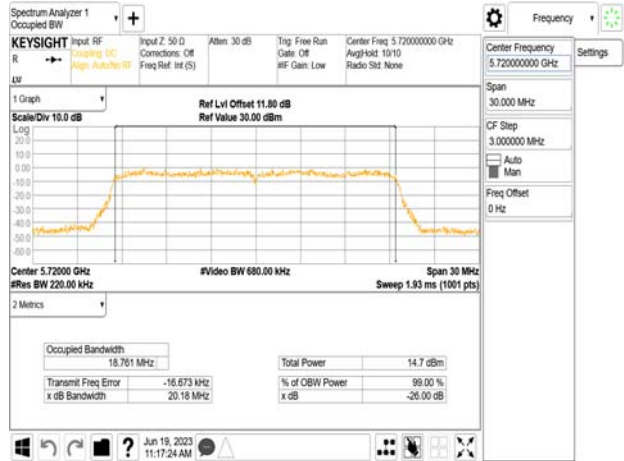
802.11ax_20MHz_Chain1_5700MHz



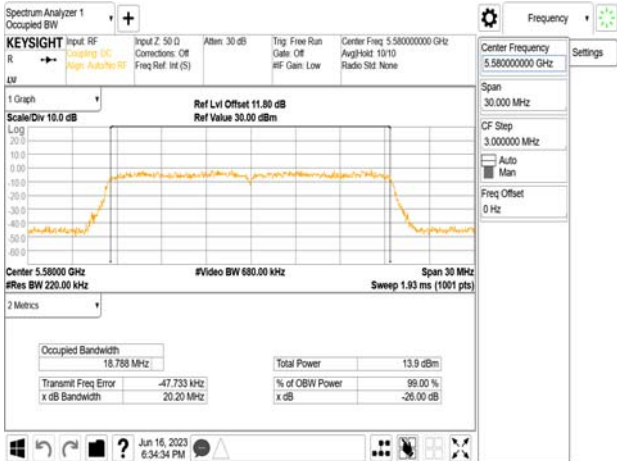
802.11ax_20MHz_Chain1_5500MHz



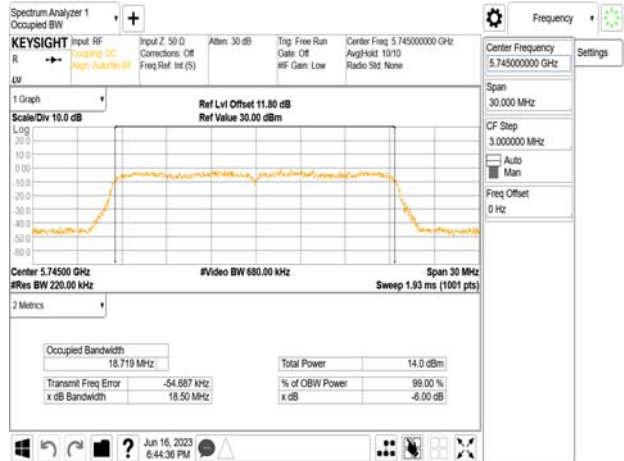
802.11ax_20MHz_Chain1_5720MHz



802.11ax_20MHz_Chain1_5580MHz



802.11ax_20MHz_Chain1_5745MHz

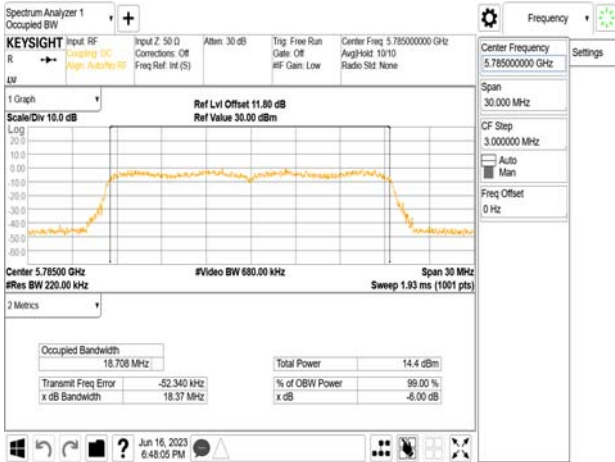


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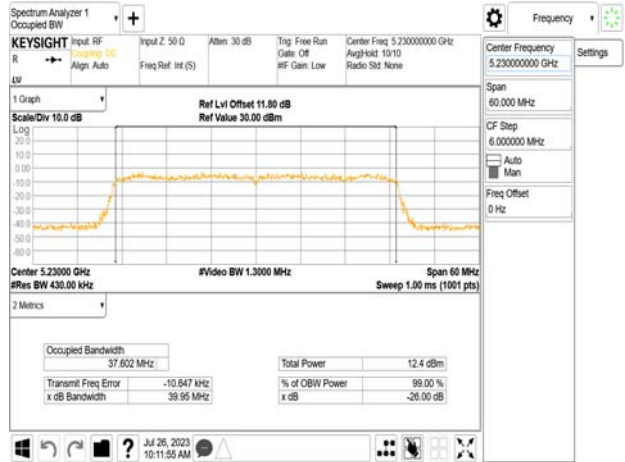
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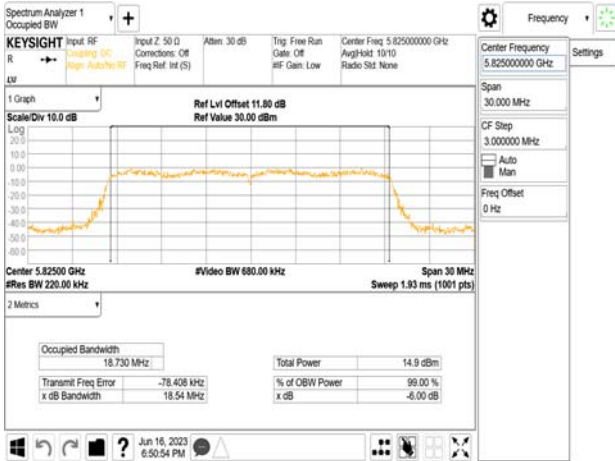
802.11ax_20MHz_Chain1_5785MHz



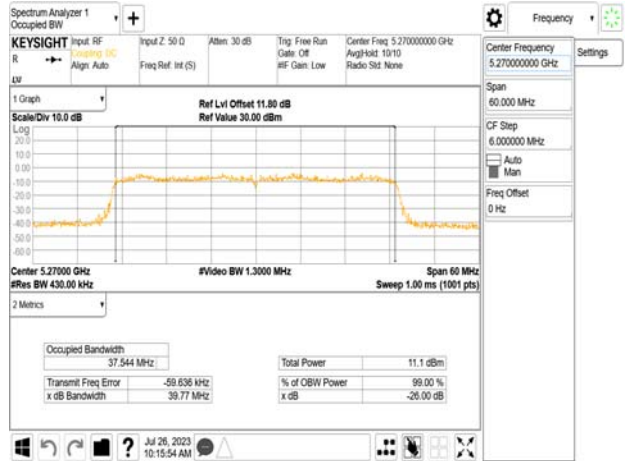
802.11ax_40MHz_Chain0_5230MHz



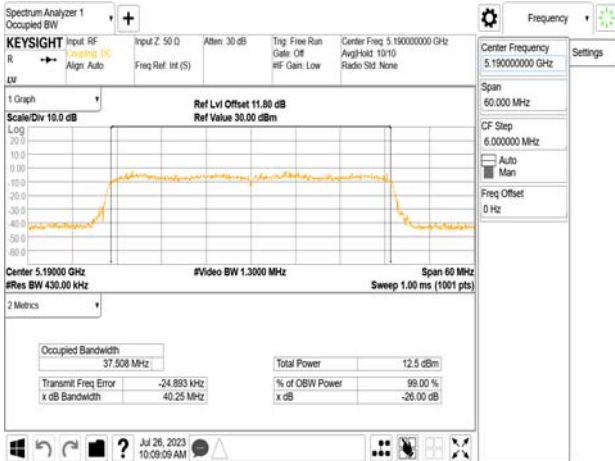
802.11ax_20MHz_Chain1_5825MHz



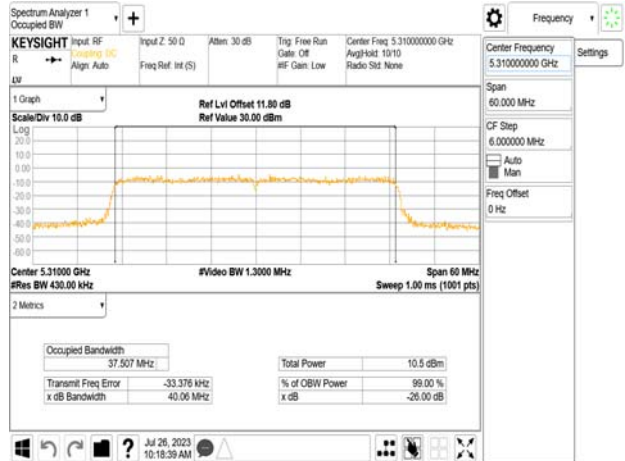
802.11ax_40MHz_Chain0_5270MHz



802.11ax_40MHz_Chain0_5190MHz



802.11ax_40MHz_Chain0_5310MHz

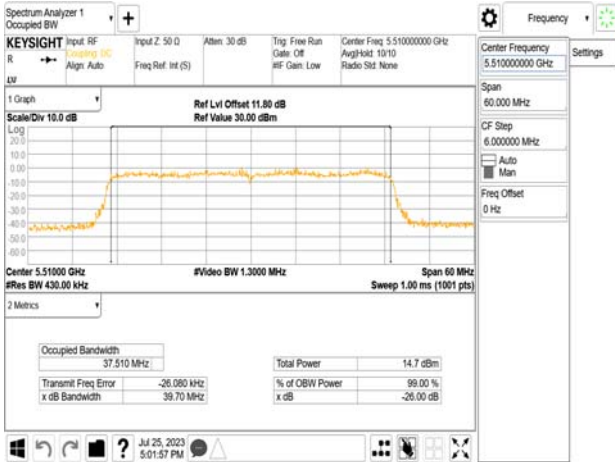


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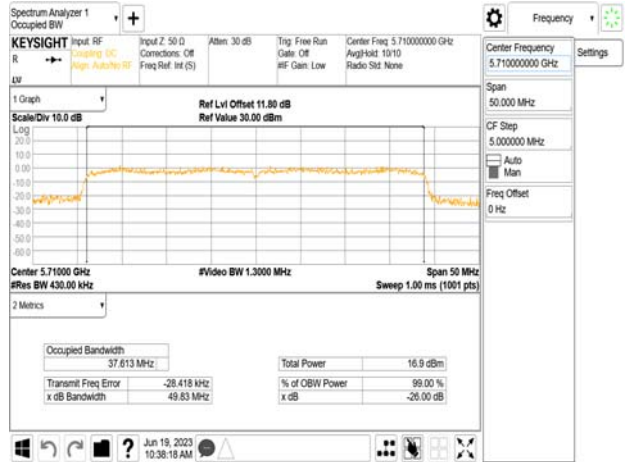
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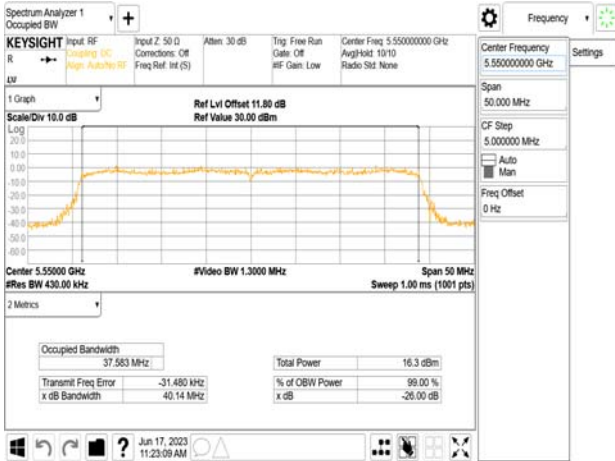
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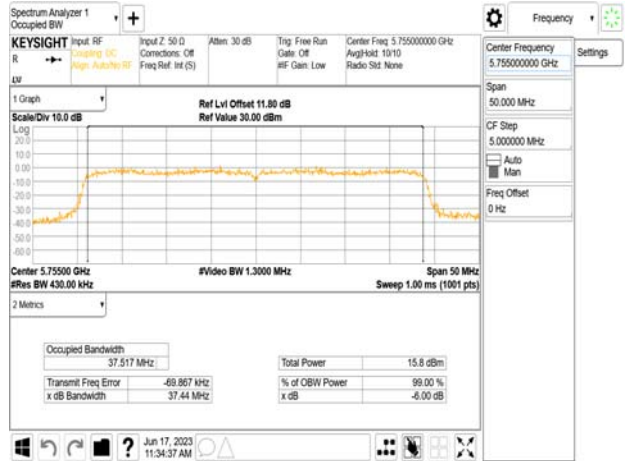
802.11ax_40MHz_Chain0_5710MHz



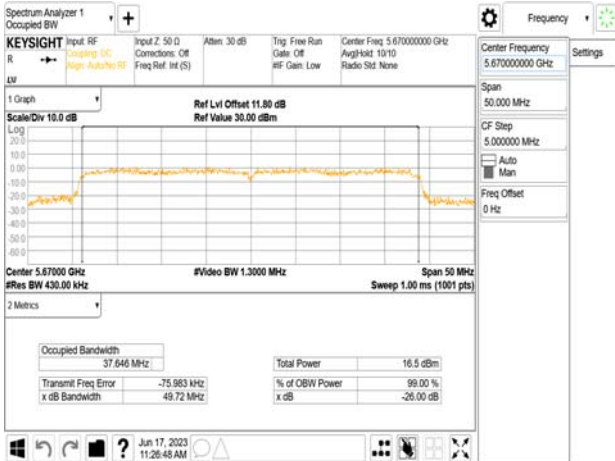
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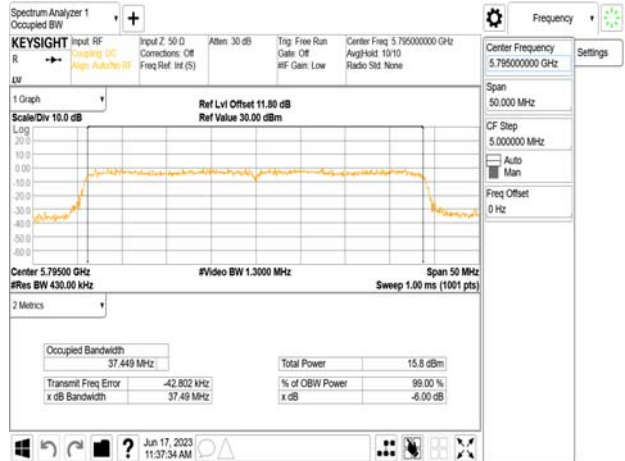
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802.11ax_40MHz_Chain0_5670MHz



802.11ax_40MHz_Chain0_5795MHz

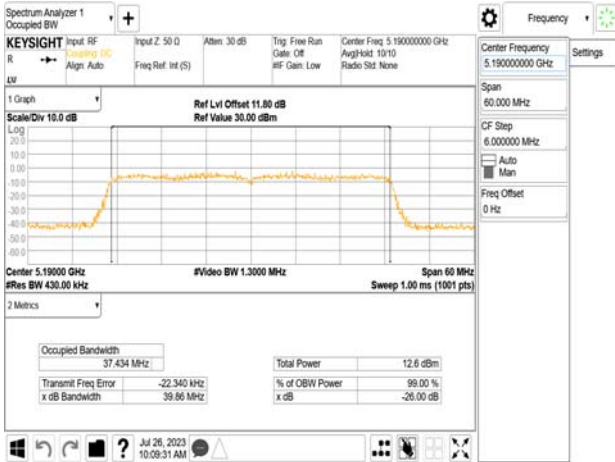


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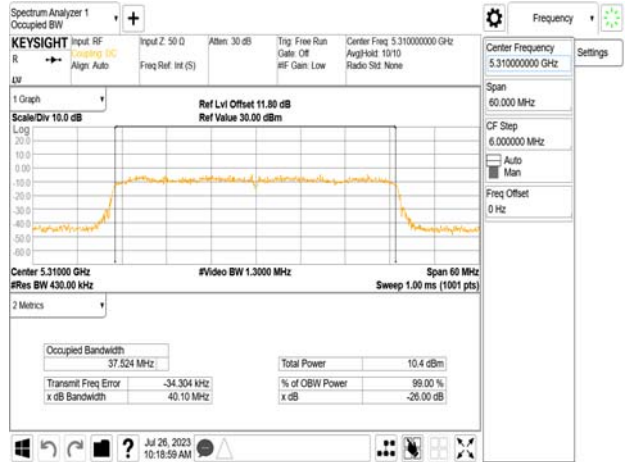
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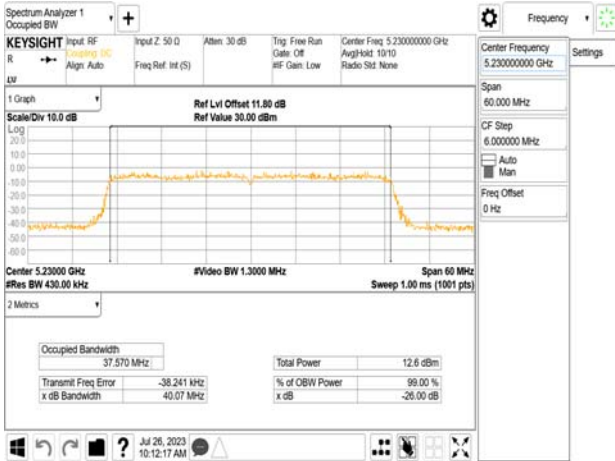
802.11ax_40MHz_Chain1_5190MHz



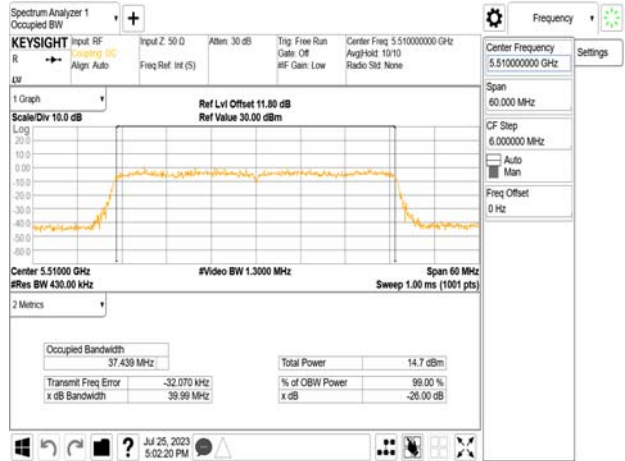
802.11ax_40MHz_Chain1_5310MHz



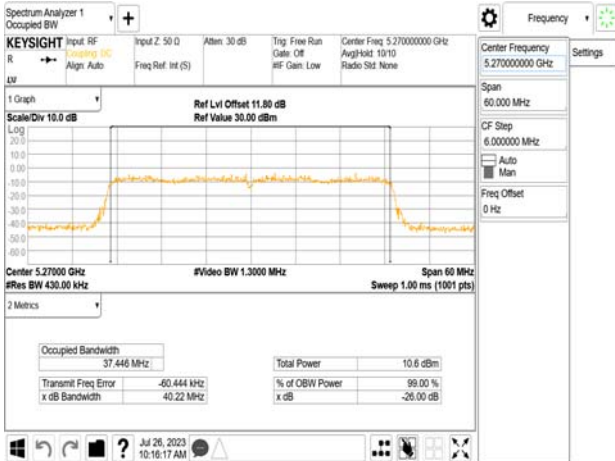
802.11ax_40MHz_Chain1_5230MHz



802.11ax_40MHz_Chain1_5510MHz



802.11ax_40MHz_Chain1_5270MHz



802.11ax_40MHz_Chain1_5550MHz



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802.11ax_40MHz_Chain1_5670MHz



802.11ax_40MHz_Chain1_5795MHz



802.11ax_40MHz_Chain1_5710MHz



802.11ax_80MHz_Chain0_5210MHz



802.11ax_40MHz_Chain1_5755MHz



802.11ax_80MHz_Chain0_5290MHz

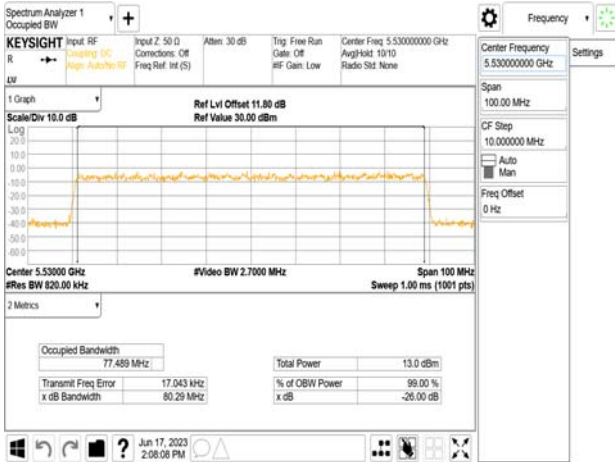


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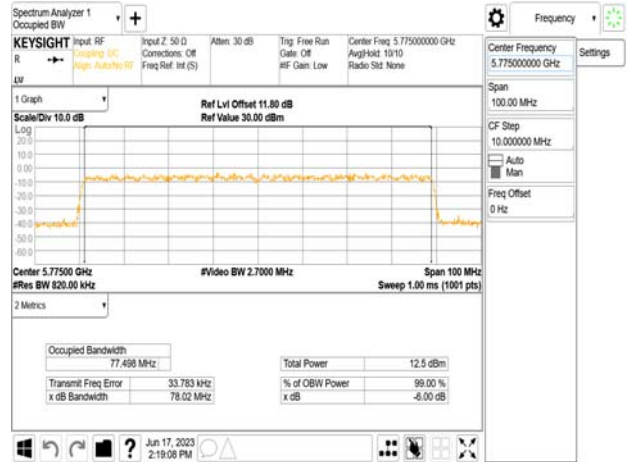
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802.11ax_80MHz_Chain0_5530MHz



802.11ax_80MHz_Chain0_5775MHz



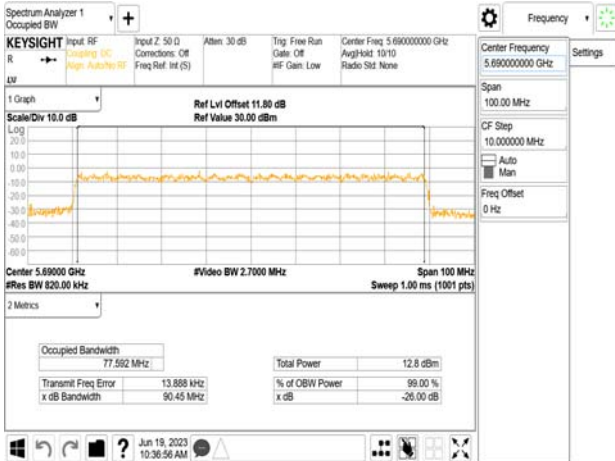
802.11ax_80MHz_Chain0_5610MHz



802.11ax_80MHz_Chain1_5210MHz



802.11ax_80MHz_Chain0_5690MHz



802.11ax_80MHz_Chain1_5290MHz



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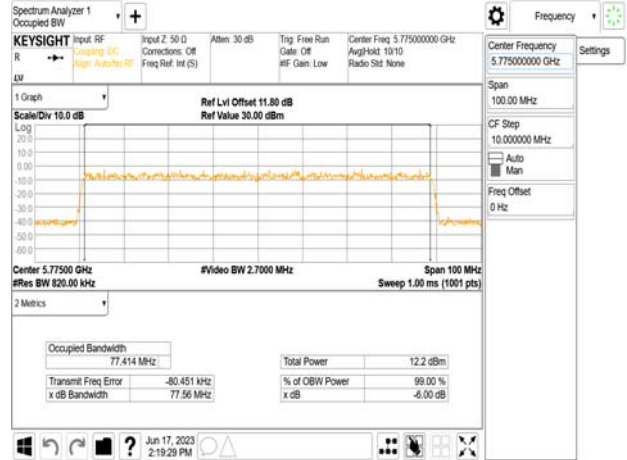
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802.11ax_80MHz_Chain1_5530MHz



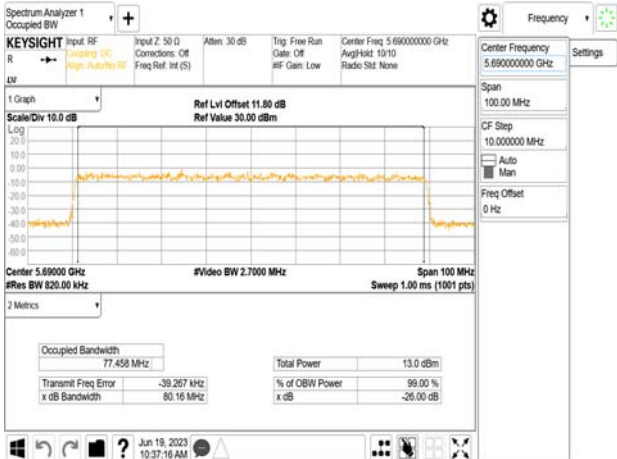
802.11ax_80MHz_Chain1_5775MHz



802.11ax_80MHz_Chain1_5610MHz



802.11ax_80MHz_Chain1_5690MHz



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9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

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 FCC

Band	EUT CATEGORY		e-CRF Title 47 §15.407			
			Conducted Output Power	EIRP	TPC	Antenna Directional Gain Requirements
U-NII-1		Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	23dBi
		Outdoor AP	1 Watt(30dBm)	Elevation angle above 30 degrees 125mW (21dBm)	Not required	6dBi
		Indoor AP	1 Watt(30dBm)	Not required	Not required	6dBi
	V	Other	250mW(23.98dBm)	Not required	Not required	6dBi
U-NII-2A	V	Other	250mW(23.98dBm) or 11dBm+10 log B	Not required	When EIRP >500mW At least 6dB below EIRP 1W (30dBm)	6dBi
U-NII-2C	V	Other	250mW(23.98dBm) or 11dBm+10 log B	Not required		6dBi
U-NII-3	V	Other	1 Watt(30dBm)	Not required	Not required	6dBi
		Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	Not required
U-NII-4		Indoor AP (a channel spans 5725~5850 and 5850~5895MHz)	Not required	36dBm	Not required	Not required
		indoor client (a channel spans 5725~5850 and 5850~5895MHz)	Not required	30dBm	Not required	Not required
		subordinate device	Not required	36dBm	Not required	Not required

1. If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna.

2. For the 10 log B, B is the 26 dB emission bandwidth.

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9.1.3 ISED

FREQUENCY BAND (MHz)	EUT CATEGORY		RSS-247 §6.2.1-6.2.4		
			EIRP	Conducted Output Power	TPC
5150-5250	V	OEM devices installed in vehicles	30 mW or $1.76 + 10 \log_{10} B$	N/A	At least 3dB below 30mW EIRP
		Other device	200 mW or $10 + 10 \log_{10} B$ dBm	N/A	N/A
5250-5350	V	OEM devices installed in vehicles	30 mW or $1.76 + 10 \log_{10} B$	N/A	At least 3dB below 30mW EIRP
		Other device	1.0 W or $17 + 10 \log_{10} B$ dBm	250 mW or $11 + 10 \log_{10} B$	EIRP >500mW, at least 6dB below 1W EIRP
		Outdoor Fixed with EIRP>200mW	-13 dBW/MHz for $0^\circ \leq \theta < 8^\circ$ $-13 - 0.716 (\theta - 8)$ dBW/MHz for $8^\circ \leq \theta < 40^\circ$ $-35.9 - 1.22 (\theta - 40)$ dBW/MHz for $40^\circ \leq \theta \leq 45^\circ$ -42 dBW/MHz for $\theta > 45^\circ$	N/A	EIRP >500mW, at least 6dB below 1W EIRP
5470-5600 and 5650-5725	V	All	1.0 W or $17 + 10 \log_{10} B$ dBm	250 mW or $11 + 10 \log_{10} B$	EIRP >500mW, at least 6dB below 1W EIRP
5725-5850	V	All	N/A	1 W	N/A

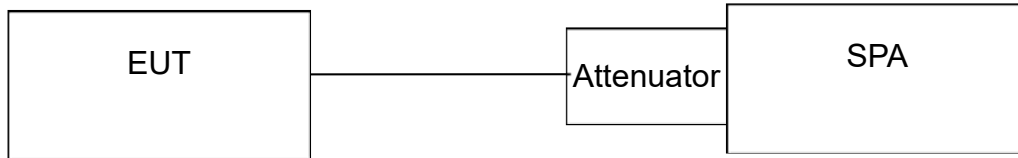
1 For equipment operating in the band 5725-5850 MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
2. For the 10 log B, B is the 99% emission bandwidth.

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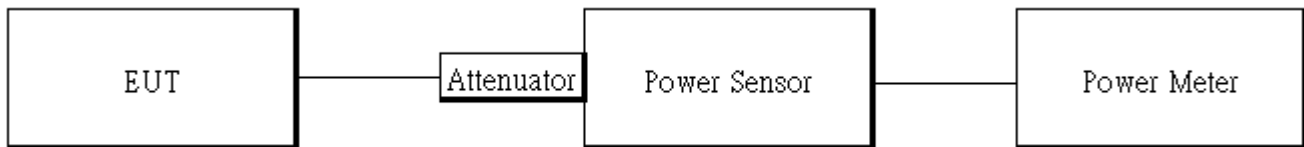
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9.2 Test Setup

9.2.1 Duty Cycle



9.2.2 Output Power



9.3 Measurement Procedure

9.3.1 Duty Cycle Measurements

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

9.3.2 Output Power Measurements

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 $10 \log(1/\text{duty cycle})$.
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, cable loss is specified below.

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.

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

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

$g_{j,k} = \frac{1}{20} 10G_k$ 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.

The antenna gain is greater than 6 dBi, therefore the power limit has been attenuated accordingly.

9.4 Duty Cycle Measurement Result

Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11a	96.86	0.14	0.32	1.00
802.11n_20	97.96	0.09	0.21	1.00
802.11ac_20	81.48	0.89	2.27	3.00
802.11n_40	95.81	0.19	0.43	1.00
802.11ac_80	91.54	0.38	0.91	1.00
802.11ax_20	91.27	0.40	0.96	1.00
802.11ax_40	94.90	0.23	0.54	1.00
802.11ax_80	74.11	1.30	3.42	4.00

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802.11a_20MHz_Chain0_5180MHz



802.11ac_20MHz_Chain0_5180MHz



802.11n_20MHz_Chain0_5180MHz



802.11ac_80MHz_Chain0_5210MHz



802.11n_40MHz_Chain0_5190MHz



802.11ax_20MHz_Chain0_5180MHz



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802.11ax_40MHz_Chain0_5190MHz



802.11ax_80MHz_Chain0_5210MHz



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9.5 Output Power Measurement Result

9.5.1 FCC Output power

802.11a_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	8.5	9.62	9.159	23.98	PASS
44	5220	6	8.5	9.86	9.680	23.98	PASS
48	5240	6	8.5	9.97	9.928	23.98	PASS
52	5260	6	8.5	9.58	9.075	23.88	PASS
60	5300	6	7	8.16	6.544	23.84	PASS
64	5320	6	8	9.02	7.977	23.88	PASS
100	5500	6	9.5	11.65	14.617	23.86	PASS
116	5580	6	12	14.84	30.469	23.88	PASS
140	5700	6	12	14.76	29.913	23.98	PASS
144	5720(U-NII 2C)	6	12.5	13.21	20.94	23.98	PASS
144	5720 (U-NII 3)	6	12.5	10.19	10.46	30	PASS
149	5745	6	11	14.79	30.120	30	PASS
157	5785	6	11	14.90	30.893	30	PASS
165	5825	6	10	14.76	29.913	30	PASS

802.11a_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	8	9.27	8.450	23.98	PASS
44	5220	6	8	9.61	9.138	23.98	PASS
48	5240	6	8	9.65	9.223	23.98	PASS
52	5260	6	8	9.31	8.528	23.92	PASS
60	5300	6	6.5	8.02	6.337	23.83	PASS
64	5320	6	7.5	8.86	7.689	23.89	PASS
100	5500	6	9	11.18	13.118	23.85	PASS
116	5580	6	11.5	14.75	29.844	23.88	PASS
140	5700	6	11.5	14.70	29.502	23.91	PASS
144	5720(U-NII 2C)	6	12	13.61	22.94	22.67	PASS
144	5720 (U-NII 3)	6	12	8.64	7.31	30	PASS
149	5745	6	10.5	14.69	29.434	30	PASS
157	5785	6	10.5	14.82	30.329	30	PASS
165	5825	6	9.5	14.71	29.570	30	PASS

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802.11a_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	6	8.5	10.11	9.72	12.93	19.626	23.98	PASS
44	5220	6	8.5	10.33	9.95	13.15	20.668	23.98	PASS
48	5240	6	8.5	10.35	10.04	13.21	20.925	23.98	PASS
52	5260	6	8.5	10.01	9.81	12.92	19.588	23.88	PASS
60	5300	6	7	8.53	8.38	11.46	14.010	23.83	PASS
64	5320	6	8	9.33	9.27	12.31	17.018	23.88	PASS
100	5500	6	9.5	12.07	11.56	14.83	30.418	23.13	PASS
116	5580	6	12	15.31	14.52	17.94	62.256	23.13	PASS
140	5700	6	12.5	15.03	14.92	17.98	62.867	23.13	PASS
144	5720(U-NII 2C)	6	12	13.43	13.43	16.44	44.039	22.67	PASS
144	5720 (U-NII 3)	6	12	10.41	8.46	12.56	18.017	30	PASS
149	5745	6	11.5	14.81	14.68	17.75	59.626	30	PASS
157	5785	6	11.5	14.95	14.46	17.72	59.167	30	PASS
165	5825	6	10.5	14.79	14.50	17.66	58.294	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	10	11.42	13.866	23.98	PASS
44	5220	MCS0	13	14.90	30.899	23.98	PASS
48	5240	MCS0	10	11.50	14.124	23.98	PASS
52	5260	MCS0	13	14.86	30.616	23.98	PASS
60	5300	MCS0	9	10.11	10.255	23.98	PASS
64	5320	MCS0	8.5	9.55	9.015	23.98	PASS
100	5500	MCS0	9	11.06	12.763	23.98	PASS
116	5580	MCS0	12	14.97	31.402	23.98	PASS
140	5700	MCS0	10	12.16	16.442	23.94	PASS
144	5720(U-NII 2C)	MCS0	11.5	13.06	20.23	23.97	PASS
144	5720 (U-NII 3)	MCS0	11.5	10.05	10.11	30	PASS
149	5745	MCS0	11.5	14.77	29.988	30	PASS
157	5785	MCS0	11	14.88	30.758	30	PASS
165	5825	MCS0	11	14.93	31.114	30	PASS

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802.11n_HT20_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	9.5	11.01	12.617	23.98	PASS
44	5220	MCS0	12.5	14.82	30.336	23.98	PASS
48	5240	MCS0	9.5	11.13	12.970	23.98	PASS
52	5260	MCS0	12.5	14.77	29.988	23.93	PASS
60	5300	MCS0	8.5	9.94	9.862	23.95	PASS
64	5320	MCS0	8	9.23	8.374	23.98	PASS
100	5500	MCS0	8.5	10.61	11.507	23.96	PASS
116	5580	MCS0	11.5	14.79	30.127	23.98	PASS
140	5700	MCS0	9.5	11.98	15.774	23.94	PASS
144	5720(U-NII 2C)	MCS0	11	13.37	21.74	23.96	PASS
144	5720 (U-NII 3)	MCS0	11	8.55	7.17	30	PASS
149	5745	MCS0	11	14.70	29.509	30	PASS
157	5785	MCS0	10.5	14.83	30.405	30	PASS
165	5825	MCS0	10.5	14.72	29.645	30	PASS

802.11n_HT20_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	MCS0	10	11.71	11.20	14.47	28.005	23.98	PASS
44	5220	MCS0	13	15.07	14.54	17.82	60.574	23.98	PASS
48	5240	MCS0	10	11.88	11.52	14.71	29.604	23.98	PASS
52	5260	MCS0	13	14.94	14.42	17.70	58.852	23.95	PASS
60	5300	MCS0	9	10.51	10.37	13.45	22.133	23.98	PASS
64	5320	MCS0	8.5	10.02	9.77	12.91	19.528	23.96	PASS
100	5500	MCS0	9	11.42	11.08	14.26	26.688	23.13	PASS
116	5580	MCS0	12	15.28	14.53	17.93	62.101	23.13	PASS
140	5700	MCS0	10	12.54	12.28	15.42	34.848	23.13	PASS
144	5720(U-NII 2C)	MCS0	12	13.29	13.49	16.40	43.670	22.74	PASS
144	5720 (U-NII 3)	MCS0	12	10.28	8.67	12.56	18.028	30	PASS
149	5745	MCS0	11.5	14.83	14.60	17.73	59.243	30	PASS
157	5785	MCS0	11.5	14.95	14.41	17.70	58.860	30	PASS
165	5825	MCS0	11	15.10	14.77	17.95	62.344	30	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	11	12.23	16.695	23.98	PASS
46	5230	MCS0	12	13.87	24.355	23.98	PASS
54	5270	MCS0	12	13.90	24.524	23.98	PASS
62	5310	MCS0	10	11.08	12.811	23.98	PASS
102	5510	MCS0	8	9.97	9.922	23.98	PASS
110	5550	MCS0	11	13.83	24.132	23.98	PASS
134	5670	MCS0	11.5	13.89	24.467	23.98	PASS
142	5710(U-NII 2C)	MCS0	11.5	12.97	19.80	23.98	PASS
142	5710 (U-NII 3)	MCS0	11.5	6.95	4.95	30	PASS
151	5755	MCS0	11	13.84	24.187	30	PASS
159	5795	MCS0	10.5	13.91	24.580	30	PASS

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802.11n_HT40_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	10.5	11.90	15.474	23.98	PASS
46	5230	MCS0	11.5	13.75	23.691	23.98	PASS
54	5270	MCS0	11.5	13.72	23.528	23.98	PASS
62	5310	MCS0	9.5	10.84	12.122	23.98	PASS
102	5510	MCS0	7.5	9.70	9.324	23.98	PASS
110	5550	MCS0	10.5	13.73	23.582	23.98	PASS
134	5670	MCS0	11	13.80	23.966	23.98	PASS
142	5710(U-NII 2C)	MCS0	11	13.32	21.47	23.98	PASS
142	5710 (U-NII 3)	MCS0	11	4.76	2.99	30	PASS
151	5755	MCS0	10.5	13.74	23.637	30	PASS
159	5795	MCS0	10	13.85	24.243	30	PASS

802.11n_HT40_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
38	5190	MCS0	11	12.70	12.29	15.51	35.531	23.98	PASS
46	5230	MCS0	12	14.17	13.75	16.97	49.788	23.98	PASS
54	5270	MCS0	12	14.04	13.40	16.74	47.184	23.98	PASS
62	5310	MCS0	10	11.46	11.27	14.37	27.367	23.98	PASS
102	5510	MCS0	8	10.50	10.15	13.33	21.551	23.13	PASS
110	5550	MCS0	11	14.10	13.62	16.87	48.672	23.13	PASS
134	5670	MCS0	11.5	14.04	13.83	16.94	49.459	23.13	PASS
142	5710(U-NII 2C)	MCS0	11.5	13.14	13.03	16.09	40.678	23.13	PASS
142	5710 (U-NII 3)	MCS0	11.5	7.12	4.47	9.00	7.948	30	PASS
151	5755	MCS0	10.5	14.01	13.63	16.83	48.199	30	PASS
159	5795	MCS0	10.5	14.06	13.30	16.70	46.804	30	PASS

802.11ac_VHT20_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	10	12.71	18.662	23.98	PASS
44	5220	MCS0	10	12.86	19.317	23.98	PASS
48	5240	MCS0	10	12.93	19.631	23.98	PASS
52	5260	MCS0	10	12.80	19.052	23.98	PASS
60	5300	MCS0	10	12.77	18.921	23.98	PASS
64	5320	MCS0	10	12.84	19.229	23.98	PASS
100	5500	MCS0	9.5	12.98	19.859	23.98	PASS
116	5580	MCS0	9.5	12.90	19.496	23.98	PASS
140	5700	MCS0	10	12.83	19.184	23.94	PASS
144	5720(U-NII 2C)	MCS0	10	10.99	12.56	23.97	PASS
144	5720 (U-NII 3)	MCS0	10	7.98	6.28	30	PASS
149	5745	MCS0	9	12.72	18.705	30	PASS
157	5785	MCS0	9	12.88	19.407	30	PASS
165	5825	MCS0	9	12.91	19.541	30	PASS

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802.11ac_VHT20_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	9.5	12.60	18.195	23.98	PASS
44	5220	MCS0	9.5	12.72	18.705	23.98	PASS
48	5240	MCS0	9.5	12.78	18.965	23.98	PASS
52	5260	MCS0	9.5	12.63	18.321	23.93	PASS
60	5300	MCS0	9.5	12.68	18.533	23.95	PASS
64	5320	MCS0	9.5	12.73	18.748	23.98	PASS
100	5500	MCS0	9	12.82	19.140	23.96	PASS
116	5580	MCS0	9	12.71	18.662	23.98	PASS
140	5700	MCS0	9.5	12.66	18.448	23.94	PASS
144	5720(U-NII 2C)	MCS0	9.5	11.34	13.62	23.96	PASS
144	5720 (U-NII 3)	MCS0	9.5	6.52	4.49	30	PASS
149	5745	MCS0	8.5	12.61	18.237	30	PASS
157	5785	MCS0	8.5	12.77	18.921	30	PASS
165	5825	MCS0	8.5	12.81	19.096	30	PASS

802.11ac_VHT20_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	MCS0	10.5	13.22	12.06	15.69	37.054	23.98	PASS
44	5220	MCS0	10.5	13.46	12.23	15.90	38.888	23.98	PASS
48	5240	MCS0	10.5	13.37	12.33	15.89	38.823	23.98	PASS
52	5260	MCS0	10.5	13.35	11.93	15.71	37.218	23.95	PASS
60	5300	MCS0	10.5	13.41	11.93	15.74	37.519	23.98	PASS
64	5320	MCS0	10.5	13.40	11.90	15.72	37.361	23.96	PASS
100	5500	MCS0	10	13.37	12.54	15.98	39.670	23.13	PASS
116	5580	MCS0	9.5	13.51	12.20	15.91	39.030	23.13	PASS
140	5700	MCS0	10	13.33	12.50	15.94	39.306	23.13	PASS
144	5720(U-NII 2C)	MCS0	9.5	11.58	10.96	14.29	26.863	22.74	PASS
144	5720 (U-NII 3)	MCS0	9.5	8.57	6.14	10.53	11.305	30	PASS
149	5745	MCS0	9	13.19	12.25	15.76	37.629	30	PASS
157	5785	MCS0	9	13.31	12.04	15.73	37.420	30	PASS
165	5825	MCS0	8.5	13.43	12.44	15.97	39.563	30	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	9.5	10.97	12.514	23.98	PASS
58	5290	MCS0	8	9.23	8.383	23.98	PASS
106	5530	MCS0	7.5	9.99	9.986	23.98	PASS
122	5610	MCS0	9.5	12.91	19.561	23.98	PASS
138	5690(U-NII 2C)	MCS0	9.5	12.00	15.84	23.98	PASS
138	5690 (U-NII 3)	MCS0	9.5	4.46	2.80	30	PASS
155	5775	MCS0	9.5	12.83	19.204	30	PASS

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802.11ac_VHT80_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	9	10.80	12.033	23.98	PASS
58	5290	MCS0	7.5	9.15	8.230	23.98	PASS
106	5530	MCS0	7	9.87	9.714	23.98	PASS
122	5610	MCS0	9	12.79	19.028	23.98	PASS
138	5690(U-NII 2C)	MCS0	9	12.36	17.22	23.98	PASS
138	5690 (U-NII 3)	MCS0	9	1.10	1.29	30	PASS
155	5775	MCS0	9	12.60	18.213	30	PASS

802.11ac_VHT80_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
42	5210	MCS0	9.5	11.32	10.90	14.13	25.878	23.98	PASS
58	5290	MCS0	8	9.66	9.43	12.56	18.033	23.98	PASS
106	5530	MCS0	7.5	10.32	9.97	13.16	20.714	23.13	PASS
122	5610	MCS0	9.5	13.15	12.19	15.71	37.245	23.13	PASS
138	5690(U-NII 2C)	MCS0	10	12.22	12.22	15.23	33.341	23.13	PASS
138	5690 (U-NII 3)	MCS0	10	4.68	0.96	6.22	4.187	30	PASS
155	5775	MCS0	9.5	13.28	12.50	15.92	39.099	30	PASS

802.11ax_HE20_Ch0

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	full	9.5	11.81	15.159	23.98	PASS
44	5220	MCS0	full	9.5	11.77	15.020	23.98	PASS
48	5240	MCS0	full	9.5	11.92	15.548	23.98	PASS
52	5260	MCS0	full	9.5	11.88	15.405	23.98	PASS
60	5300	MCS0	full	9.5	11.84	15.264	23.98	PASS
64	5320	MCS0	full	10	11.79	15.089	23.98	PASS
100	5500	MCS0	full	9	11.91	15.512	23.98	PASS
116	5580	MCS0	full	9	11.89	15.441	23.98	PASS
140	5700	MCS0	full	9	11.73	14.882	23.98	PASS
144	5720(U-NII 2C)	MCS0	full	9	10.16	10.379	23.79	PASS
144	5720 (U-NII 3)	MCS0	full	9	6.92	4.921	30	PASS
149	5745	MCS0	full	8	11.74	14.917	30	PASS
157	5785	MCS0	full	8	11.82	15.194	30	PASS
165	5825	MCS0	full	8	11.96	15.692	30	PASS

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802.11ax_HE20_Ch1

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	full	9	11.69	14.746	23.98	PASS
44	5220	MCS0	full	9	11.64	14.577	23.98	PASS
48	5240	MCS0	full	9	11.73	14.882	23.98	PASS
52	5260	MCS0	full	9	11.78	15.055	23.98	PASS
60	5300	MCS0	full	9	11.77	15.020	23.98	PASS
64	5320	MCS0	full	9.5	11.65	14.611	23.98	PASS
100	5500	MCS0	full	8.5	11.81	15.159	23.98	PASS
116	5580	MCS0	full	8.5	11.84	15.264	23.98	PASS
140	5700	MCS0	full	8.5	11.66	14.644	23.98	PASS
144	5720(U-NII 2C)	MCS0	full	8.5	10.53	11.300	22.77	PASS
144	5720 (U-NII 3)	MCS0	full	8.5	5.79	3.789	30	PASS
149	5745	MCS0	full	8.5	11.59	14.410	30	PASS
157	5785	MCS0	full	8.5	11.63	14.544	30	PASS
165	5825	MCS0	full	8.5	11.80	15.124	30	PASS

802.11ax_HE20_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
36	5180	MCS0	full	9.5	11.99	11.31	14.67	29.311	23.98	PASS
44	5220	MCS0	full	9.5	12.05	11.44	14.76	29.941	23.98	PASS
48	5240	MCS0	full	9.5	12.19	11.45	14.84	30.498	23.98	PASS
52	5260	MCS0	full	9.5	12.07	11.21	14.67	29.297	23.98	PASS
60	5300	MCS0	full	9.5	12.04	11.18	14.64	29.096	23.98	PASS
64	5320	MCS0	full	10	12.32	11.47	14.92	31.065	23.98	PASS
100	5500	MCS0	full	9	12.27	11.57	14.94	31.197	23.13	PASS
116	5580	MCS0	full	8.5	12.23	11.19	14.75	29.841	23.13	PASS
140	5700	MCS0	full	9	12.07	11.42	14.76	29.951	23.13	PASS
144	5720(U-NII 2C)	MCS0	full	9	10.58	10.21	13.41	21.930	22.77	PASS
144	5720 (U-NII 3)	MCS0	full	9	7.34	5.47	9.51	8.940	30	PASS
149	5745	MCS0	full	8	12.01	11.35	14.70	29.509	30	PASS
157	5785	MCS0	full	8	12.08	11.23	14.68	29.395	30	PASS
165	5825	MCS0	full	7.5	12.27	11.66	14.98	31.497	30	PASS

802.11ax_HE40_Ch0

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	full	10.5	12.87	19.352	23.98	PASS
46	5230	MCS0	full	10.5	12.94	19.667	23.98	PASS
54	5270	MCS0	full	10.5	12.83	19.175	23.98	PASS
62	5310	MCS0	full	10	11.36	13.669	23.98	PASS
102	5510	MCS0	full	7.5	10.01	10.017	23.98	PASS
110	5550	MCS0	full	9.5	12.75	10.017	23.98	PASS
134	5670	MCS0	full	9.5	12.70	18.609	23.98	PASS
142	5710(U-NII 2C)	MCS0	full	10	11.89	15.437	23.98	PASS
142	5710 (U-NII 3)	MCS0	full	10	5.52	3.562	30	PASS
151	5755	MCS0	full	9	12.82	19.131	30	PASS
159	5795	MCS0	full	9	12.86	19.308	30	PASS

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802.11ax_HE40_Ch1

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	full	10	12.72	18.695	23.98	PASS
46	5230	MCS0	full	10	12.79	18.999	23.98	PASS
54	5270	MCS0	full	10	12.75	18.825	23.98	PASS
62	5310	MCS0	full	9	11.18	13.114	23.98	PASS
102	5510	MCS0	full	7	9.55	9.010	23.98	PASS
110	5550	MCS0	full	9	12.71	9.010	23.98	PASS
134	5670	MCS0	full	9	12.62	18.270	23.98	PASS
142	5710(U-NII 2C)	MCS0	full	9.5	12.11	16.250	23.98	PASS
142	5710 (U-NII 3)	MCS0	full	9.5	3.73	2.359	30	PASS
151	5755	MCS0	full	8.5	12.67	18.481	30	PASS
159	5795	MCS0	full	8.5	12.74	18.782	30	PASS

802.11ax_HE40_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
38	5190	MCS0	full	10.5	12.98	12.44	15.73	37.377	23.98	PASS
46	5230	MCS0	full	10.5	13.10	12.56	15.85	38.424	23.98	PASS
54	5270	MCS0	full	10.5	12.97	12.22	15.62	36.465	23.98	PASS
62	5310	MCS0	full	10	11.86	11.68	14.78	30.051	23.98	PASS
102	5510	MCS0	full	7.5	10.36	10.01	13.20	20.875	23.13	PASS
110	5550	MCS0	full	9.5	12.94	12.35	15.66	20.875	23.13	PASS
134	5670	MCS0	full	10	12.79	12.60	15.70	37.185	23.13	PASS
142	5710(U-NII 2C)	MCS0	full	10	12.00	11.83	14.92	31.068	23.13	PASS
142	5710 (U-NII 3)	MCS0	full	10	5.63	3.45	7.68	5.866	30	PASS
151	5755	MCS0	full	9	12.93	12.46	15.71	37.231	30	PASS
159	5795	MCS0	full	9	12.98	12.18	15.61	36.358	30	PASS

802.11ax_HE80_Ch0

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	full	6.5	9.97	9.934	23.98	PASS
58	5290	MCS0	full	6.5	9.84	9.641	23.98	PASS
106	5530	MCS0	full	5.5	9.76	9.465	23.98	PASS
122	5610	MCS0	full	5.5	9.91	9.798	23.98	PASS
138	5690(U-NII 2C)	MCS0	full	5.5	9.38	8.676	23.98	PASS
138	5690 (U-NII 3)	MCS0	full	5.5	-1.67	0.680	30	PASS
155	5775	MCS0	full	5	9.88	9.730	30	PASS

802.11ax_HE80_Ch1

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	full	6	9.85	9.663	23.98	PASS
58	5290	MCS0	full	6	9.71	9.357	23.98	PASS
106	5530	MCS0	full	5	9.63	9.186	23.98	PASS
122	5610	MCS0	full	5	9.67	9.271	23.98	PASS
138	5690(U-NII 2C)	MCS0	full	5	9.29	8.498	23.98	PASS
138	5690 (U-NII 3)	MCS0	full	5	-2.35	0.582	30	PASS
155	5775	MCS0	full	4.5	9.66	9.250	30	PASS

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802.11ax_HE80_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
42	5210	MCS0	full	7	10.62	9.21	12.98	19.877	23.98	PASS
58	5290	MCS0	full	7	10.57	8.98	12.86	19.315	23.98	PASS
106	5530	MCS0	full	6	10.47	8.97	12.80	19.037	23.13	PASS
122	5610	MCS0	full	6	10.63	9.01	12.91	19.528	23.13	PASS
138	5690(U-NII 2C)	MCS0	full	6	9.94	8.63	12.35	17.171	23.13	PASS
138	5690(U-NII 3)	MCS0	full	6	-1.11	-3.01	1.05	1.274	30	PASS
155	5775	MCS0	full	5.5	10.65	9.01	12.92	19.582	30	PASS

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9.5.2 ISED Output power

802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
100	5500	11.65	14.617	23.19	PASS
116	5580	14.84	30.469	23.20	PASS
140	5700	14.76	29.913	23.48	PASS
144	5720(U-NII 2C)	13.21	20.938	22.35	PASS
144	5720 (U-NII 3)	10.19	10.456	30	PASS
149	5745	14.79	30.120	30	PASS
157	5785	14.90	30.893	30	PASS
165	5825	14.76	29.913	30	PASS

802.11a_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
100	5500	11.18	13.118	23.18	PASS
116	5580	14.75	29.844	23.19	PASS
140	5700	14.70	29.502	23.17	PASS
144	5720(U-NII 2C)	13.61	22.944	22.23	PASS
144	5720 (U-NII 3)	8.64	7.315	30	PASS
149	5745	14.69	29.434	30	PASS
157	5785	14.82	30.329	30	PASS
165	5825	14.71	29.570	30	PASS

802.11a_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
100	5500	12.06856	11.55856	14.83	30.418	23.18	PASS
116	5580	15.30856	14.51856	17.94	62.256	23.19	PASS
140	5700	15.02856	14.91856	17.98	62.867	23.17	PASS
144	5720(U-NII 2C)	13.42945	13.42676	16.44	44.039	22.23	PASS
144	5720 (U-NII 3)	10.41372	8.46196	12.56	18.017	30	PASS
149	5745	14.80856	14.67856	17.75	59.626	30	PASS
157	5785	14.94856	14.45856	17.72	59.167	30	PASS
165	5825	14.78856	14.49856	17.66	58.294	30	PASS

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802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
100	5500	11.06	12.763	23.46	PASS
116	5580	14.97	31.402	23.46	PASS
140	5700	12.16	16.442	23.46	PASS
144	5720(U-NII 2C)	13.06	20.225	22.46	PASS
144	5720 (U-NII 3)	10.05	10.110	30	PASS
149	5745	14.77	29.988	30	PASS
157	5785	14.88	30.758	30	PASS
165	5825	14.93	31.114	30	PASS

802.11n_HT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
100	5500	10.61	11.507	23.46	PASS
116	5580	14.79	30.127	23.46	PASS
140	5700	11.98	15.774	23.46	PASS
144	5720(U-NII 2C)	13.37	21.736	22.4	PASS
144	5720 (U-NII 3)	8.55	7.168	30	PASS
149	5745	14.70	29.509	30	PASS
157	5785	14.83	30.405	30	PASS
165	5825	14.72	29.645	30	PASS

802.11n_HT20_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
100	5500	11.41951	11.07951	14.26	26.688	23.46	PASS
116	5580	15.27951	14.52951	17.93	62.101	23.46	PASS
140	5700	12.53951	12.27951	15.42	34.848	23.46	PASS
144	5720(U-NII 2C)	13.28896	13.49178	16.40	43.670	22.4	PASS
144	5720 (U-NII 3)	10.27758	8.673747	12.56	18.028	30	PASS
149	5745	14.82951	14.59951	17.73	59.243	30	PASS
157	5785	14.94951	14.40951	17.70	58.860	30	PASS
165	5825	15.09951	14.76951	17.95	62.344	30	PASS

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802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
102	5510	9.97	9.922	23.98	PASS
110	5550	13.83	24.132	23.98	PASS
134	5670	13.89	24.467	23.98	PASS
142	5710(U-NII 2C)	12.97	19.801	23.98	PASS
142	5710 (U-NII 3)	6.95	4.950	30	PASS
151	5755	13.84	24.187	30	PASS
159	5795	13.91	24.580	30	PASS

802.11n_HT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
102	5510	9.70	9.324	23.98	PASS
110	5550	13.73	23.582	23.98	PASS
134	5670	13.80	23.966	23.98	PASS
142	5710(U-NII 2C)	13.32	21.474	23.98	PASS
142	5710 (U-NII 3)	4.76	2.994	30	PASS
151	5755	13.74	23.637	30	PASS
159	5795	13.85	24.243	30	PASS

802.11n_HT40_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
102	5510	10.49589	10.14589	13.33	21.551	23.98	PASS
110	5550	14.09589	13.61589	16.87	48.672	23.98	PASS
134	5670	14.03589	13.82589	16.94	49.459	23.98	PASS
142	5710(U-NII 2C)	13.13679	13.02907	16.09	40.678	23.98	PASS
142	5710 (U-NII 3)	7.116192	4.472162	9.00	7.948	30	PASS
151	5755	14.00589	13.62589	16.83	48.199	30	PASS
159	5795	14.05589	13.29589	16.70	46.804	30	PASS

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802.11ac_VHT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
100	5500	12.98	19.859	23.46	PASS
116	5580	12.90	19.496	23.46	PASS
140	5700	12.83	19.184	23.46	PASS
144	5720(U-NII 2C)	10.99	12.557	22.46	PASS
144	5720 (U-NII 3)	7.98	6.277	30	PASS
149	5745	12.72	18.705	30	PASS
157	5785	12.88	19.407	30	PASS
165	5825	12.91	19.541	30	PASS

802.11ac_VHT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
100	5500	12.82	19.140	23.46	PASS
116	5580	12.71	18.662	23.46	PASS
140	5700	12.66	18.448	23.46	PASS
144	5720(U-NII 2C)	11.34	13.620	22.4	PASS
144	5720 (U-NII 3)	6.52	4.491	30	PASS
149	5745	12.61	18.237	30	PASS
157	5785	12.77	18.921	30	PASS
165	5825	12.81	19.096	30	PASS

802.11ac_VHT20_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
100	5500	13.36949	12.53949	15.98	39.670	23.46	PASS
116	5580	13.50949	12.19949	15.91	39.030	23.46	PASS
140	5700	13.32949	12.49949	15.94	39.306	23.46	PASS
144	5720(U-NII 2C)	11.57894	10.96176	14.29	26.863	22.4	PASS
144	5720 (U-NII 3)	8.567553	6.143724	10.53	11.305	30	PASS
149	5745	13.18949	12.24949	15.76	37.629	30	PASS
157	5785	13.30949	12.03949	15.73	37.420	30	PASS
165	5825	13.42949	12.43949	15.97	39.563	30	PASS

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802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
106	5530	9.99	9.986	23.98	PASS
122	5610	12.91	19.561	23.98	PASS
138	5690(U-NII 2C)	12.00	15.842	23.98	PASS
138	5690 (U-NII 3)	4.46	2.796	30	PASS
155	5775	12.83	19.204	30	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
106	5530	9.87	9.714	23.98	PASS
122	5610	12.79	19.028	23.98	PASS
138	5710(U-NII 2C)	12.36	17.222	23.98	PASS
138	5690 (U-NII 3)	1.10	1.287	30	PASS
155	5775	12.60	18.213	30	PASS

802.11ac_VHT80_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
106	5530	10.32389	9.973891	13.16	20.714	23.98	PASS
122	5610	13.15389	12.19389	15.71	37.245	23.98	PASS
138	5710(U-NII 2C)	12.21808	12.22083	15.23	33.341	23.98	PASS
138	5690 (U-NII 3)	4.684804	0.956777	6.22	4.187	30	PASS
155	5775	13.28389	12.50389	15.92	39.099	30	PASS

802.11ax_HE20_Ch0

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
100	5500	full	11.91	15.512	23.73	PASS
116	5580	full	11.89	15.441	23.74	PASS
140	5700	full	11.73	14.882	23.77	PASS
144	5720(U-NII	full	10.16	10.379	22.59	PASS
144	5720 (U-NII 3)	full	6.92	4.921	30	PASS
149	5745	full	11.74	14.917	30	PASS
157	5785	full	11.82	15.194	30	PASS
165	5825	full	11.96	15.692	30	PASS

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802.11ax_HE20_Ch1

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
100	5500	full	11.81	15.159	23.72	PASS
116	5580	full	11.84	15.264	23.74	PASS
140	5700	full	11.66	14.644	23.98	PASS
144	5720(U-NII	full	10.53	11.300	22.58	PASS
144	5720 (U-NII 3)	full	5.79	3.789	30	PASS
149	5745	full	11.59	14.410	30	PASS
157	5785	full	11.63	14.544	30	PASS
165	5825	full	11.80	15.124	30	PASS

802.11ax_HE20_2TX

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			Ch0	Ch1				
100	5500	full	12.26672	11.56672	14.94	31.197	23.72	PASS
116	5580	full	12.22672	11.18672	14.75	29.841	23.74	PASS
140	5700	full	12.06672	11.41672	14.76	29.951	23.72	PASS
144	5720(U-NII	full	10.58145	10.21084	13.41	21.930	22.58	PASS
144	5720 (U-NII 3)	full	7.340146	5.465532	9.51	8.940	30	PASS
149	5745	full	12.00672	11.34672	14.70	29.509	30	PASS
157	5785	full	12.07672	11.22672	14.68	29.395	30	PASS
165	5825	full	12.26672	11.65672	14.98	31.497	30	PASS

802.11ax_HE40_Ch0

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
102	5510	full	10.01	10.017	23.98	PASS
110	5550	full	12.75	18.825	23.98	PASS
134	5670	full	12.70	18.609	23.98	PASS
142	5710(U-NII	full	11.89	15.437	23.98	PASS
142	5710 (U-NII 3)	full	5.52	3.562	30	PASS
151	5755	full	12.82	19.131	30	PASS
159	5795	full	12.86	19.308	30	PASS

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802.11ax_HE40_Ch1

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
102	5510	full	9.55	9.010	23.98	PASS
110	5550	full	12.71	18.652	23.98	PASS
134	5670	full	12.62	18.270	23.98	PASS
142	5710(U-NII)	full	12.11	16.250	23.98	PASS
142	5710 (U-NII 3)	full	3.73	2.359	30	PASS
151	5755	full	12.67	18.481	30	PASS
159	5795	full	12.74	18.782	30	PASS

802.11ax_HE40_2TX

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			Ch0	Ch1				
102	5510	full	10.35734	10.00734	13.20	20.875	23.98	PASS
110	5550	full	12.93734	12.34734	15.66	36.835	23.98	PASS
134	5670	full	12.78734	12.59734	15.70	37.185	23.98	PASS
142	5710(U-NII)	full	11.99557	11.82861	14.92	31.068	23.98	PASS
142	5710 (U-NII 3)	full	5.627351	3.4476	7.68	5.866	30	PASS
151	5755	full	12.92734	12.45734	15.71	37.231	30	PASS
159	5795	full	12.97734	12.17734	15.61	36.358	30	PASS

802.11ax_HE80_Ch0

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
106	5530	full	9.76	9.465	23.98	PASS
122	5610	full	9.91	9.798	23.98	PASS
138	5690(U-NII)	full	9.38	8.676	23.98	PASS
138	5690 (U-NII 3)	full	-1.67	0.680	30	PASS
155	5775	full	9.88	9.730	30	PASS

802.11ax_HE80_Ch1

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
106	5530	full	9.63	9.186	23.98	PASS
122	5610	full	9.67	9.271	23.98	PASS
138	5690(U-NII)	full	9.29	8.498	23.98	PASS
138	5690 (U-NII 3)	full	-2.35	0.582	30	PASS
155	5775	full	9.66	9.250	30	PASS

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802.11ax_HE80_2TX

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			Ch0	Ch1				
106	5530	full	10.47123	8.971232	12.80	19.037	23.98	PASS
122	5610	full	10.63123	9.011232	12.91	19.528	23.98	PASS
138	5690(U-NII)	full	9.943426	8.633366	12.35	17.171	23.98	PASS
138	5690 (U-NII 3)	full	-1.11332	-3.00785	1.05	1.274	30	PASS
155	5775	full	10.65123	9.011232	12.92	19.582	30	PASS

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9.5.3 ISED EIRP
802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	7.12	2.27	9.39	8.690	14.77	PASS
44	5220	7.18	2.27	9.45	8.810	14.77	PASS
48	5240	6.96	2.27	9.23	8.375	14.77	PASS
52	5260	6.13	2.68	8.81	7.603	14.77	PASS
60	5300	6.16	2.68	8.84	7.656	14.77	PASS
64	5320	6.09	2.68	8.77	7.534	14.77	PASS
100	5500	11.65	2.41	14.06	25.468	29.19	PASS
116	5580	14.84	2.41	17.25	53.088	29.2	PASS
140	5700	14.76	2.41	17.17	52.119	29.48	PASS

802.11a_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6.97	0.82	7.79	6.012	14.77	PASS
44	5220	7.08	0.82	7.90	6.166	14.77	PASS
48	5240	6.77	0.82	7.59	5.741	14.77	PASS
52	5260	6.02	2.20	8.22	6.637	14.77	PASS
60	5300	6.05	2.20	8.25	6.683	14.77	PASS
64	5320	5.93	2.20	8.13	6.501	14.77	PASS
100	5500	11.18	5.07	16.25	42.170	29.18	PASS
116	5580	14.75	5.07	19.82	95.940	29.19	PASS
140	5700	14.70	5.07	19.77	94.842	29.17	PASS

802.11a_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	10.05	4.59	14.64	29.107	14.77	PASS
44	5220	10.15	4.59	14.74	29.785	14.77	PASS
48	5240	9.74	4.59	14.33	27.102	14.77	PASS
52	5260	9.08	5.45	14.53	28.379	14.77	PASS
60	5300	8.95	5.45	14.40	27.542	14.77	PASS
64	5320	9.00	5.45	14.45	27.861	14.77	PASS
100	5500	14.83	6.85	21.68	147.231	29.18	PASS
116	5580	17.94	6.85	24.79	301.301	29.19	PASS
140	5700	17.98	6.85	24.83	304.089	29.17	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	7.01	2.27	9.28	8.472	14.77	PASS
44	5220	7.16	2.27	9.43	8.770	14.77	PASS
48	5240	6.83	2.27	9.10	8.128	14.77	PASS
52	5260	6.08	2.68	8.76	7.516	14.77	PASS
60	5300	6.02	2.68	8.70	7.413	14.77	PASS
64	5320	6.12	2.68	8.80	7.586	14.77	PASS
100	5500	11.06	2.41	13.47	22.233	29.46	PASS
116	5580	14.97	2.41	17.38	54.702	29.46	PASS
140	5700	12.16	2.41	14.57	28.642	29.46	PASS

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802.11n_HT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6.98	0.82	7.80	6.026	14.77	PASS
44	5220	7.12	0.82	7.94	6.223	14.77	PASS
48	5240	6.70	0.82	7.52	5.649	14.77	PASS
52	5260	5.95	2.20	8.15	6.531	14.77	PASS
60	5300	5.91	2.20	8.11	6.471	14.77	PASS
64	5320	5.98	2.20	8.18	6.577	14.77	PASS
100	5500	10.61	5.07	15.68	36.983	29.46	PASS
116	5580	14.79	5.07	19.86	96.828	29.46	PASS
140	5700	11.98	5.07	17.05	50.699	29.46	PASS

802.11n_HT20_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	9.99	4.59	14.58	28.708	14.77	PASS
44	5220	10.17	4.59	14.76	29.923	14.77	PASS
48	5240	9.71	4.59	14.30	26.915	14.77	PASS
52	5260	9.01	5.45	14.46	27.925	14.77	PASS
60	5300	9.07	5.45	14.52	28.314	14.77	PASS
64	5320	8.97	5.45	14.42	27.669	14.77	PASS
100	5500	14.26	6.85	21.11	129.122	29.46	PASS
116	5580	17.93	6.85	24.78	300.608	29.46	PASS
140	5700	15.42	6.85	22.27	168.655	29.46	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	7.16	2.27	9.43	8.770	14.77	PASS
46	5230	6.77	2.27	9.04	8.017	14.77	PASS
54	5270	6.20	2.68	8.88	7.727	14.77	PASS
62	5310	6.13	2.68	8.81	7.603	14.77	PASS
102	5510	9.97	2.41	12.38	17.298	30	PASS
110	5550	13.83	2.41	16.24	42.073	30	PASS
134	5670	13.89	2.41	16.30	42.658	30	PASS

802.11n_HT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	7.05	0.82	7.87	6.124	14.77	PASS
46	5230	6.72	0.82	7.54	5.675	14.77	PASS
54	5270	6.08	2.20	8.28	6.730	14.77	PASS
62	5310	6.00	2.20	8.20	6.607	14.77	PASS
102	5510	9.70	5.07	14.77	29.992	30	PASS
110	5550	13.73	5.07	18.80	75.858	30	PASS
134	5670	13.80	5.07	18.87	77.090	30	PASS

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802.11n_HT40_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	10.07	4.59	14.66	29.242	14.77	PASS
46	5230	9.74	4.59	14.33	27.102	14.77	PASS
54	5270	9.09	5.45	14.54	28.445	14.77	PASS
62	5310	9.02	5.45	14.47	27.990	14.77	PASS
102	5510	13.33	6.85	20.18	104.232	30	PASS
110	5550	16.87	6.85	23.72	235.505	30	PASS
134	5670	16.94	6.85	23.79	239.332	30	PASS

802.11ac_VHT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6.91	2.27	9.18	8.279	14.77	PASS
44	5220	7.12	2.27	9.39	8.690	14.77	PASS
48	5240	7.16	2.27	9.43	8.770	14.77	PASS
52	5260	5.92	2.68	8.60	7.244	14.77	PASS
60	5300	5.87	2.68	8.55	7.161	14.77	PASS
64	5320	5.82	2.68	8.50	7.079	14.77	PASS
100	5500	12.98	2.41	15.39	34.594	29.46	PASS
116	5580	12.90	2.41	15.31	33.963	29.46	PASS
140	5700	12.83	2.41	15.24	33.420	29.46	PASS

802.11ac_VHT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6.76	0.82	7.58	5.728	14.77	PASS
44	5220	6.91	0.82	7.73	5.929	14.77	PASS
48	5240	7.00	0.82	7.82	6.053	14.77	PASS
52	5260	5.77	2.20	7.97	6.266	14.77	PASS
60	5300	5.80	2.20	8.00	6.310	14.77	PASS
64	5320	5.74	2.20	7.94	6.223	14.77	PASS
100	5500	12.82	5.07	17.89	61.518	29.46	PASS
116	5580	12.71	5.07	17.78	59.979	29.46	PASS
140	5700	12.66	5.07	17.73	59.293	29.46	PASS

802.11ac_VHT20_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	9.80	4.59	14.39	27.479	14.77	PASS
44	5220	10.03	4.59	14.62	28.973	14.77	PASS
48	5240	10.06	4.59	14.65	29.174	14.77	PASS
52	5260	8.79	5.45	14.24	26.546	14.77	PASS
60	5300	8.86	5.45	14.31	26.977	14.77	PASS
64	5320	8.76	5.45	14.21	26.363	14.77	PASS
100	5500	15.98	6.85	22.83	191.867	29.46	PASS
116	5580	15.91	6.85	22.76	188.799	29.46	PASS
140	5700	15.94	6.85	22.79	190.108	29.46	PASS

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802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	6.76	2.27	9.03	7.998	14.77	PASS
58	5290	6.32	2.68	9.00	7.943	14.77	PASS
106	5530	9.99	2.41	12.40	17.378	30	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	6.72	0.82	7.54	5.675	14.77	PASS
58	5290	6.12	2.20	8.32	6.792	14.77	PASS
106	5530	9.87	5.07	14.94	31.189	30	PASS

802.11ac_VHT80_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	9.76	4.59	14.35	27.227	14.77	PASS
58	5290	9.17	5.45	14.62	28.973	14.77	PASS
106	5530	13.16	6.85	20.01	100.231	30	PASS

802.11ax_HE20_Ch0

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	full	6.94	2.27	9.21	8.337	14.77	PASS
44	5220	full	7.04	2.27	9.31	8.531	14.77	PASS
48	5240	full	7.28	2.27	9.55	9.016	14.77	PASS
52	5260	full	6.26	2.68	8.94	7.834	14.77	PASS
60	5300	full	6.32	2.68	9.00	7.943	14.77	PASS
64	5320	full	6.23	2.68	8.91	7.780	14.77	PASS
100	5500	full	11.91	2.41	14.32	27.040	29.73	PASS
116	5580	full	11.89	2.41	14.30	26.915	29.74	PASS
140	5700	full	11.73	2.41	14.14	25.942	29.77	PASS

802.11ax_HE20_Ch1

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	full	6.78	0.82	7.60	5.754	14.77	PASS
44	5220	full	6.94	0.82	7.76	5.970	14.77	PASS
48	5240	full	7.07	0.82	7.89	6.152	14.77	PASS
52	5260	full	6.12	2.20	8.32	6.792	14.77	PASS
60	5300	full	6.18	2.20	8.38	6.887	14.77	PASS
64	5320	full	6.11	2.20	8.31	6.776	14.77	PASS
100	5500	full	11.81	5.07	16.88	48.753	29.72	PASS
116	5580	full	11.84	5.07	16.91	49.091	29.74	PASS
140	5700	full	11.66	5.07	16.73	47.098	29.72	PASS

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802.11ax_HE20_2TX

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	full	9.80	4.59	14.39	27.479	14.77	PASS
44	5220	full	9.98	4.59	14.57	28.642	14.77	PASS
48	5240	full	10.05	4.59	14.64	29.107	14.77	PASS
52	5260	full	9.09	5.45	14.54	28.445	14.77	PASS
60	5300	full	9.16	5.45	14.61	28.907	14.77	PASS
64	5320	full	9.21	5.45	14.66	29.242	14.77	PASS
100	5500	full	14.94	6.85	21.79	151.008	29.72	PASS
116	5580	full	14.75	6.85	21.60	144.544	29.74	PASS
140	5700	full	14.76	6.85	21.61	144.877	29.72	PASS

802.11ax_HE40_Ch0

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	full	7.06	2.27	9.33	8.570	14.77	PASS
46	5230	full	7.16	2.27	9.43	8.770	14.77	PASS
54	5270	full	5.96	2.68	8.64	7.311	14.77	PASS
62	5310	full	5.92	2.68	8.60	7.244	14.77	PASS
102	5510	full	10.01	2.41	12.42	17.458	30	PASS
110	5550	full	12.75	2.41	15.16	32.810	30	PASS
134	5670	full	12.70	2.41	15.11	32.434	30	PASS

802.11ax_HE40_Ch1

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	full	7.00	0.82	7.82	6.053	14.77	PASS
46	5230	full	7.06	0.82	7.88	6.138	14.77	PASS
54	5270	full	5.84	2.20	8.04	6.368	14.77	PASS
62	5310	full	5.87	2.20	8.07	6.412	14.77	PASS
102	5510	full	9.55	5.07	14.62	28.973	30	PASS
110	5550	full	12.71	5.07	17.78	59.979	30	PASS
134	5670	full	12.62	5.07	17.69	58.749	30	PASS

802.11ax_HE40_2TX

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	full	9.95	4.59	14.54	28.445	14.77	PASS
46	5230	full	10.02	4.59	14.61	28.907	14.77	PASS
54	5270	full	8.84	5.45	14.29	26.853	14.77	PASS
62	5310	full	8.87	5.45	14.32	27.040	14.77	PASS
102	5510	full	13.20	6.85	20.05	101.158	30	PASS
110	5550	full	15.66	6.85	22.51	178.238	30	PASS
134	5670	full	15.70	6.85	22.55	179.887	30	PASS

802.11ax_HE80_Ch0

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	full	7.07	2.27	9.34	8.590	14.77	PASS
58	5290	full	6.04	2.68	8.72	7.447	14.77	PASS
106	5530	full	9.76	2.41	12.17	16.482	30	PASS

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802.11ax_HE80_Ch1

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	full	6.99	0.82	7.81	6.039	14.77	PASS
58	5290	full	5.93	2.20	8.13	6.501	14.77	PASS
106	5530	full	9.63	5.07	14.70	29.512	30	PASS

802.11ax_HE80_2TX

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	full	10.11	4.59	14.70	29.512	14.77	PASS
58	5290	full	9.07	5.45	14.52	28.314	14.77	PASS
106	5530	full	12.80	6.85	19.65	92.257	30	PASS

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10 MAXIMUM POWER SPECTRAL DENSITY

10.1 FCC Standard

Operation Bands	EUT CATEGORY		e-CRF Title 47 §15.407 Power Spectral Density	Antenna Directional Gain Requirements
U-NII-1		Outdoor Access Point (Master)	1. 17dBm/ MHz 2. EIRP<=125mW(21dBm) at any elevation angle > 30°	6dBi
		Indoor Access Point (Master)	17dBm / MHz	6dBi
		Fixed point-to-point Access Point	17dBm / MHz	23dBi
	V	Client device	11dBm / MHz	6dBi
U-NII-2A	V	All	11dBm / MHz	6dBi
U-NII-2C	V	All	11dBm / MHz	6dBi
U-NII-3	V	All	30dBm / 500kHz	6dBi
U-NII-4		Indoor AP	20dBm / MHz e.i.r.p.	Not required
		indoor client	14dBm / MHz e.i.r.p.	Not required
		subordinate device	20dBm / MHz e.i.r.p.	Not required
<p>If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna.</p>				

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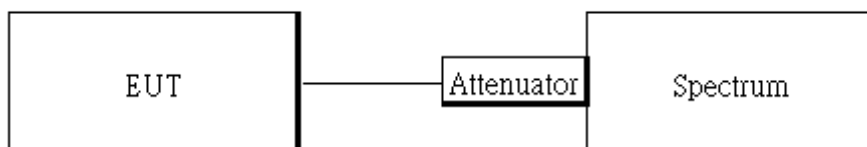
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10.2 ISED Standard

FREQUENCY BAND (MHz)	EUT CATEGORY		RSS-247 §6.2.1~6.2.4	
			EIRP Density	Power Density
5150~5250	V	OEM devices installed in vehicles	N/A	N/A
		Other device	10 dBm/MHz	N/A
5250~5350	V	OEM devices installed in vehicles	N/A	N/A
		Other device	N/A	11 dBm/MHz
5470~5600 and 5650~5725	V	All	N/A	11 dBm/MHz
5725~5850	V	All	N/A	30 dBm/500kHz

For equipment operating in the band 5725-5850 MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

10.3 Test Setup



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10.4 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. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. For U-NII1, U-NII-2A, U-NII-2C Band:
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (1001 pts), Detector = power averaging (rms), if available. Otherwise, use sample detector mode, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
For U-NII-3 Band:
Set RBW=300kHz, VBW=1MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto, detector = RMS or sample, traces 100 sweeps of video averaging.
In addition, measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500 kHz/RBW) to the measured result.
5. Use the cursor on spectrum to peak search the highest level of trace
6. (1)Duty cycle ≥ 98% : Record the max. reading.
(2)Duty cycle < 98% : Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

Note: For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

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.

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

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.

The antenna gain is greater than 6 dBi, therefore the power limit has been attenuated accordingly.

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10.5 Measurement Result

POWER DENSITY 802.11a MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	-1.271	-1.363	0.14	1.83		11.00 dBm/MHz	-9.17
5220	-1.592	-1.550	0.14	1.58		11.00 dBm/MHz	-9.42
5240	-1.279	-1.413	0.14	1.80		11.00 dBm/MHz	-9.20
5260	-1.561	-1.946	0.14	1.40		11.00 dBm/MHz	-9.60
5300	-3.929	-2.945	0.14	-0.26		11.00 dBm/MHz	-11.26
5320	-2.615	-2.561	0.14	0.56		11.00 dBm/MHz	-10.44
5500	-0.596	-0.914	0.14	2.40		10.15 dBm/MHz	-7.75
5580	2.333	1.999	0.14	5.32		10.15 dBm/MHz	-4.83
5700	3.327	2.715	0.14	6.18		10.15 dBm/MHz	-3.97
5720 (U-NII 2C)	2.284	1.938	0.14	5.26		10.15 dBm/MHz	-4.89
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	-3.266	-4.068	0.14	2.22	1.72	30.00 dBm/500kHz	-28.28
5745	-3.425	-3.088	0.14	2.22	2.12	30.00 dBm/500kHz	-27.88
5785	-3.601	-3.107	0.14	2.22	2.02	30.00 dBm/500kHz	-27.98
5825	-3.752	-3.037	0.14	2.22	1.99	30.00 dBm/500kHz	-28.01
POWER DENSITY 802.11n HT20 MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	0.663	0.486	0.09	3.68		11.00 dBm/MHz	-7.32
5220	1.988	2.283	0.09	5.24		11.00 dBm/MHz	-5.76
5240	0.603	0.480	0.09	3.64		11.00 dBm/MHz	-7.36
5260	2.169	1.633	0.09	5.01		11.00 dBm/MHz	-5.99
5300	-1.737	-1.666	0.09	1.40		11.00 dBm/MHz	-9.60
5320	-2.053	-2.081	0.09	1.03		11.00 dBm/MHz	-9.97
5500	-1.604	-1.381	0.09	1.61		10.15 dBm/MHz	-8.54
5580	2.172	1.833	0.09	5.11		10.15 dBm/MHz	-5.04
5700	0.396	1.284	0.09	3.96		10.15 dBm/MHz	-6.19
5720 (U-NII 2C)	1.892	1.968	0.09	5.03		10.15 dBm/MHz	-5.12
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	-3.346	-4.069	0.09	2.22	1.63	30.00 dBm/500kHz	-28.37
5745	-4.045	-3.634	0.09	2.22	1.49	30.00 dBm/500kHz	-28.51
5785	-4.070	-4.023	0.09	2.22	1.27	30.00 dBm/500kHz	-28.73
5825	-3.426	-3.274	0.09	2.22	1.97	30.00 dBm/500kHz	-28.03

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POWER DENSITY 802.11n HT40 MODE								
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)	
5190	-2.072	-1.782	0.19	1.28		11.00 dBm/MHz	-9.72	
5230	-2.642	-2.933	0.19	0.42		11.00 dBm/MHz	-10.58	
5270	-3.336	-2.716	0.19	0.19		11.00 dBm/MHz	-10.81	
5310	-3.570	-4.207	0.19	-0.68		11.00 dBm/MHz	-11.68	
5510	-4.711	-5.140	0.19	-1.72		10.15 dBm/MHz	-11.87	
5550	-2.315	-2.428	0.19	0.83		10.15 dBm/MHz	-9.32	
5670	-1.642	-2.094	0.19	1.34		10.15 dBm/MHz	-8.81	
5710 (U-NII 2C)	-1.641	-1.964	0.19	1.40		10.15 dBm/MHz	-8.75	
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)	
5710 (U-NII 3)	-7.453	-7.704	0.19	2.22	-2.16	30.00 dBm/500kHz	-32.16	
5755	-8.261	-8.453	0.19	2.22	-2.94	30.00 dBm/500kHz	-32.94	
5795	-7.960	-8.130	0.19	2.22	-2.62	30.00 dBm/500kHz	-32.62	
POWER DENSITY 802.11ac VHT80 MODE								
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)	
5210	-6.919	-6.791	0.38	-3.46		11.00 dBm/MHz	-14.46	
5290	-8.855	-9.216	0.38	-5.64		11.00 dBm/MHz	-16.64	
5530	-8.629	-8.904	0.38	-5.37		10.15 dBm/MHz	-15.52	
5610	-7.315	-7.613	0.38	-4.07		10.15 dBm/MHz	-14.22	
5690 (U-NII 2C)	-7.548	-6.993	0.38	-3.87		10.15 dBm/MHz	-14.02	
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)	
5690 (U-NII 3)	-13.158	-14.547	0.38	2.22	-8.19	30.00 dBm/500kHz	-38.19	
5775	-12.707	-12.561	0.38	2.22	-7.02	30.00 dBm/500kHz	-37.02	
POWER DENSITY 802.11ax HE20 MODE								
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	full	-2.041	-1.651	0.40	1.57		11.00 dBm/MHz	-9.43
5220	full	-1.774	-1.688	0.40	1.68		11.00 dBm/MHz	-9.32
5240	full	-1.280	-1.872	0.40	1.84		11.00 dBm/MHz	-9.16
5260	full	-1.623	-2.605	0.40	1.32		11.00 dBm/MHz	-9.68
5300	full	-2.122	-2.336	0.40	1.18		11.00 dBm/MHz	-9.82
5320	full	-1.305	-1.684	0.40	1.92		11.00 dBm/MHz	-9.08
5500	full	-1.165	-1.513	0.40	2.07		10.15 dBm/MHz	-8.08
5580	full	-1.708	-2.233	0.40	1.45		10.15 dBm/MHz	-8.70
5700	full	-2.008	-1.225	0.40	1.81		10.15 dBm/MHz	-8.34
5720 (U-NII 2C)	full	-1.166	-1.726	0.40	1.97		10.15 dBm/MHz	-8.18
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	full	-7.447	-7.322	0.40	2.22	-1.75	30.00 dBm/500kHz	-31.75
5745	full	-7.656	-7.197	0.40	2.22	-1.79	30.00 dBm/500kHz	-31.79
5785	full	-7.457	-6.301	0.40	2.22	-1.21	30.00 dBm/500kHz	-31.21
5825	full	-7.174	-6.206	0.40	2.22	-1.03	30.00 dBm/500kHz	-31.03

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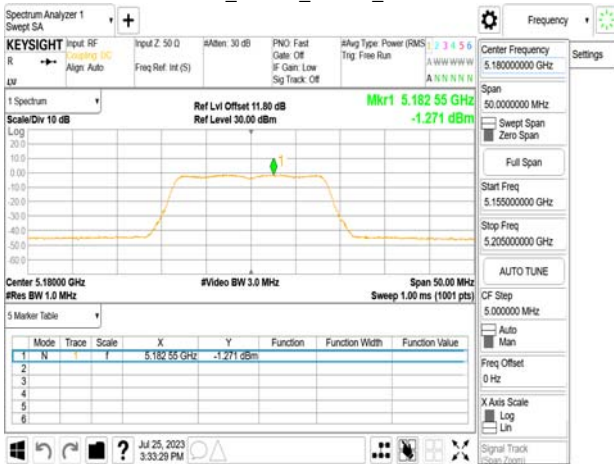
POWER DENSITY 802.11ax HE40 MODE								
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5190	full	-3.722	-3.787	0.23	-0.51		11.00 dBm/MHz	-11.51
5230	full	-3.770	-3.510	0.23	-0.40		11.00 dBm/MHz	-11.40
5270	full	-3.408	-4.509	0.23	-0.68		11.00 dBm/MHz	-11.68
5310	full	-2.775	-3.587	0.23	0.08		11.00 dBm/MHz	-10.92
5510	full	-5.215	-5.295	0.23	-2.01		10.15 dBm/MHz	-12.16
5550	full	-3.099	-3.786	0.23	-0.19		10.15 dBm/MHz	-10.34
5670	full	-3.634	-3.430	0.23	-0.29		10.15 dBm/MHz	-10.44
5710 (U-NII 2C)	full	-3.570	-3.759	0.23	-0.42		10.15 dBm/MHz	-10.57
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5710 (U-NII 3)	full	-9.553	-9.908	0.23	2.22	-4.27	30.00 dBm/500kHz	-34.27
5755	full	-9.474	-9.526	0.23	2.22	-4.04	30.00 dBm/500kHz	-34.04
5795	full	-9.407	-8.956	0.23	2.22	-3.72	30.00 dBm/500kHz	-33.72
POWER DENSITY 802.11ax HE80 MODE								
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5210	full	-10.278	-10.613	1.30	-6.13		11.00 dBm/MHz	-17.13
5290	full	-10.913	-10.772	1.30	-6.53		11.00 dBm/MHz	-17.53
5530	full	-10.430	-10.624	1.30	-6.22		10.15 dBm/MHz	-16.37
5610	full	-10.114	-10.547	1.30	-6.01		10.15 dBm/MHz	-16.16
5690 (U-NII 2C)	full	-11.436	-11.368	1.30	-7.09		10.15 dBm/MHz	-17.24
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5690 (U-NII 3)	full	-17.282	-17.399	1.30	2.22	-10.81	30.00 dBm/500kHz	-40.81
5775	full	-15.548	-16.176	1.30	2.22	-9.32	30.00 dBm/500kHz	-39.32

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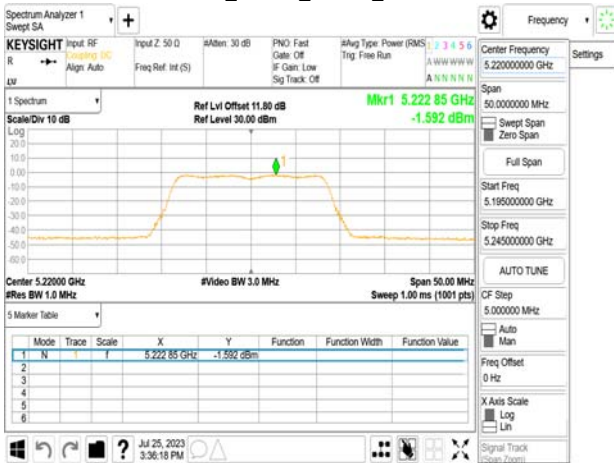
802.11a_20MHz_Chain0_5180MHz



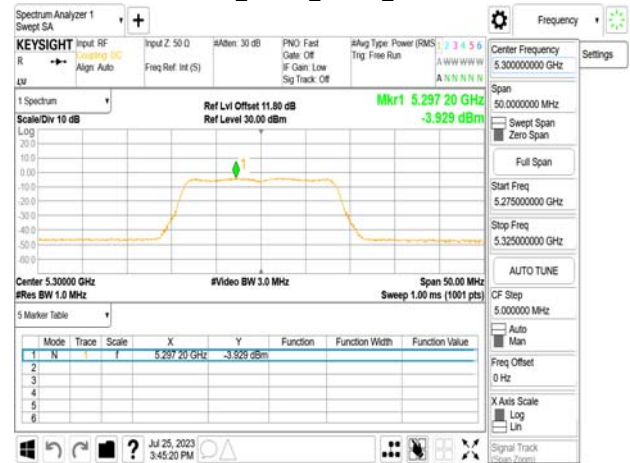
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802.11a_20MHz_Chain0_5220MHz



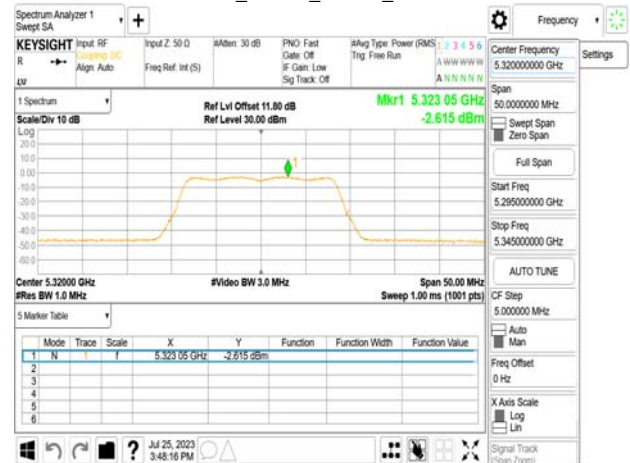
802.11a_20MHz_Chain0_5300MHz



802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5320MHz

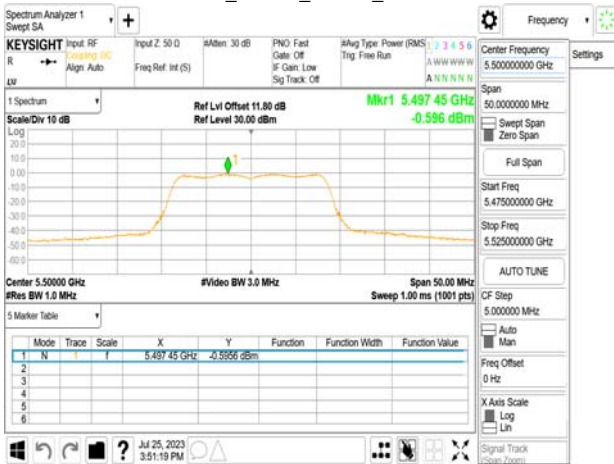


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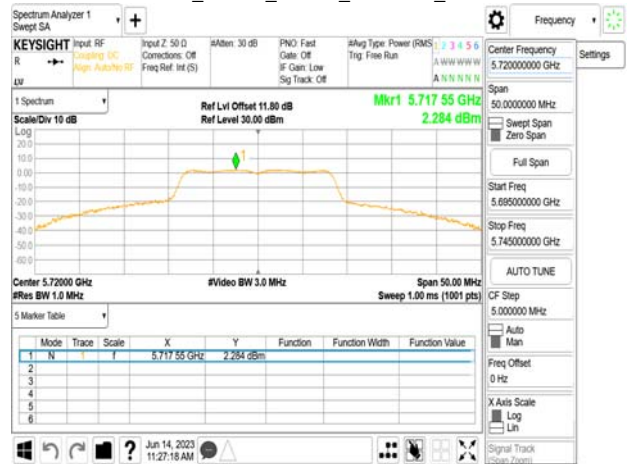
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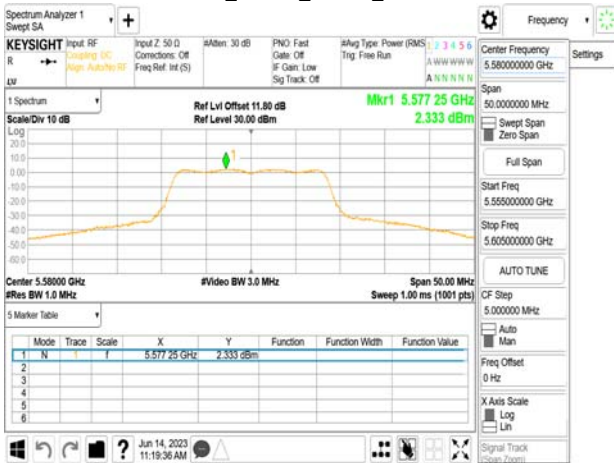
802.11a_20MHz_Chain0_5500MHz



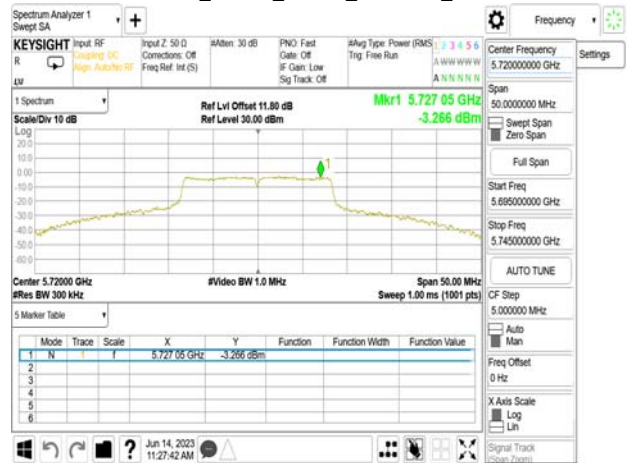
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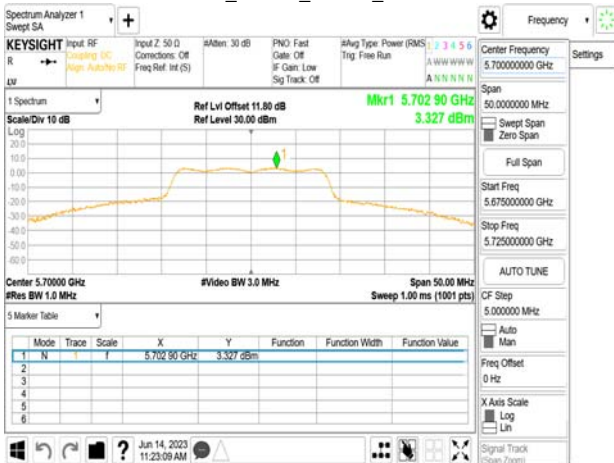
802.11a_20MHz_Chain0_5580MHz



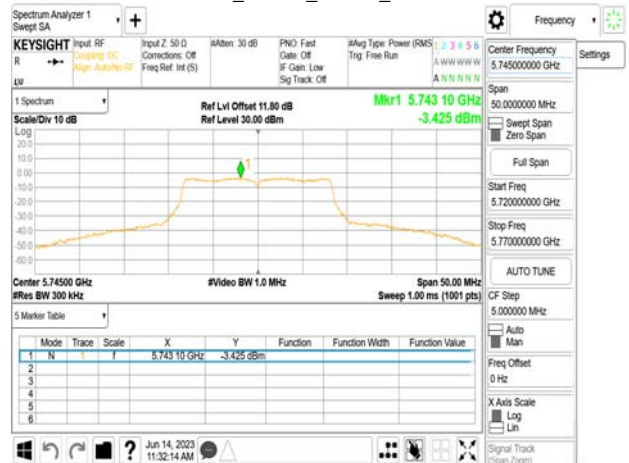
802.11a_20MHz_Chain0_5720MHz_UNII 3



802.11a_20MHz_Chain0_5700MHz



802.11a_20MHz_Chain0_5745MHz



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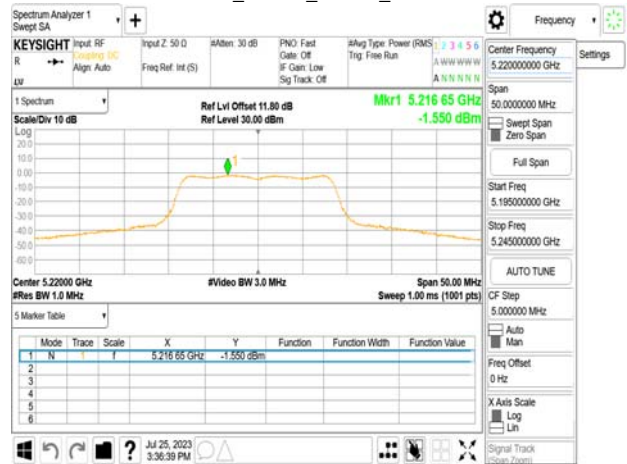
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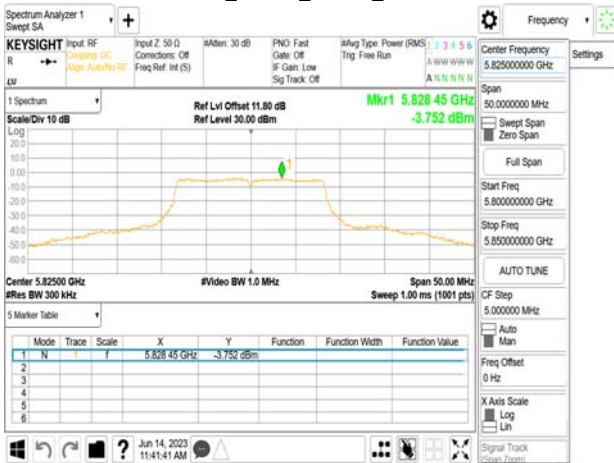
802.11a_20MHz_Chain0_5785MHz



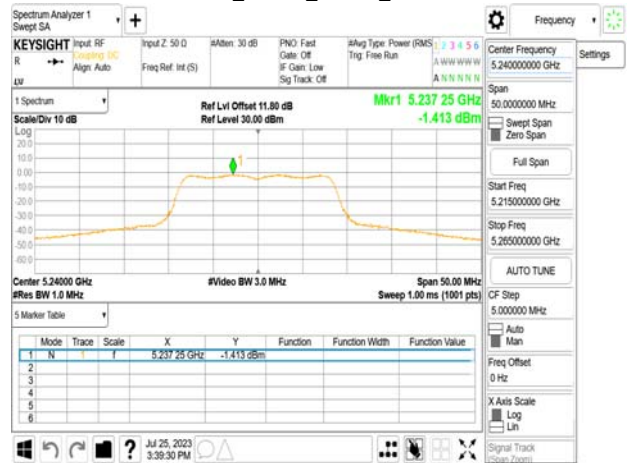
802.11a_20MHz_Chain1_5220MHz



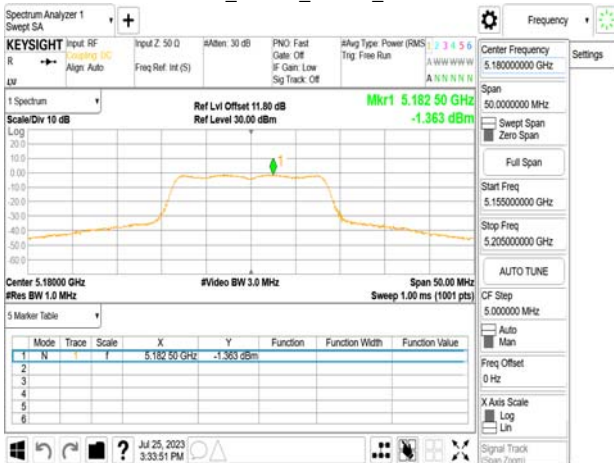
802.11a_20MHz_Chain0_5825MHz



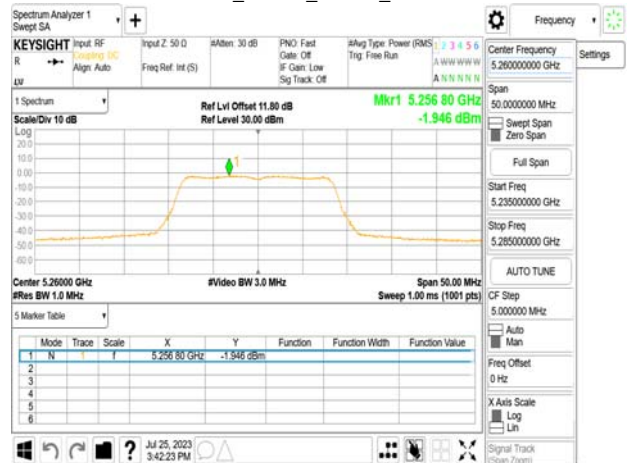
802.11a_20MHz_Chain1_5240MHz



802.11a_20MHz_Chain1_5180MHz



802.11a_20MHz_Chain1_5260MHz

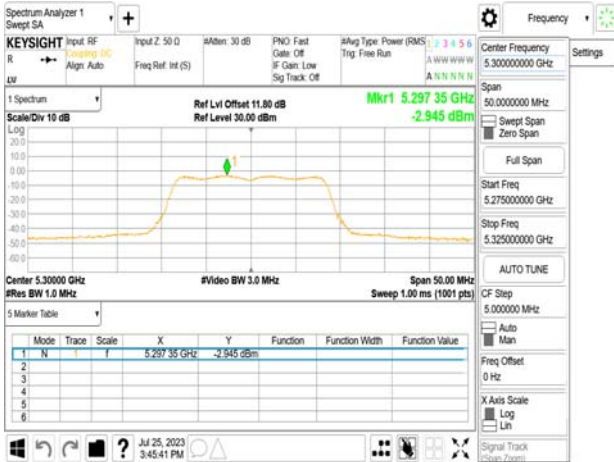


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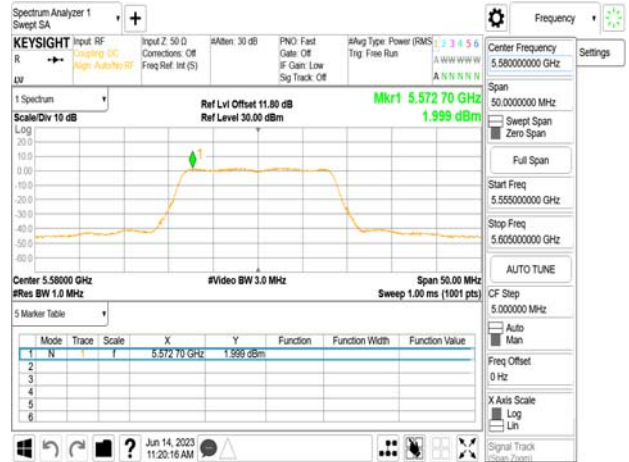
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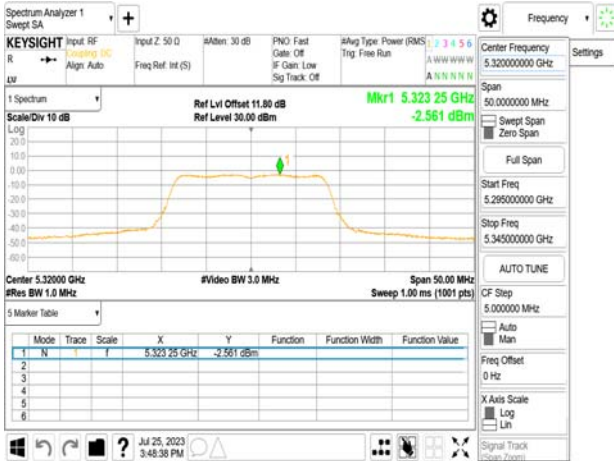
802.11a_20MHz_Chain1_5300MHz



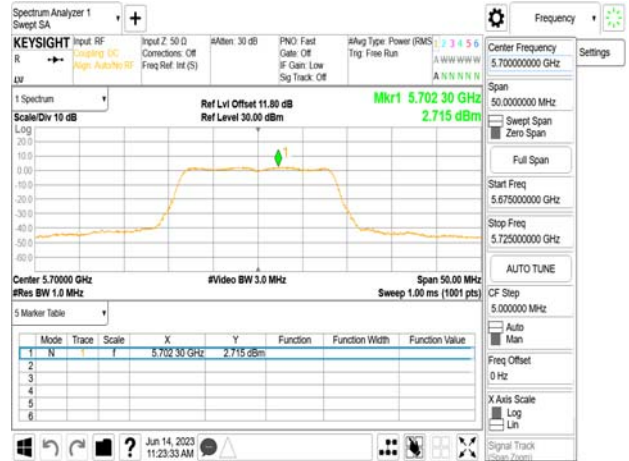
802.11a_20MHz_Chain1_5580MHz



802.11a_20MHz_Chain1_5320MHz



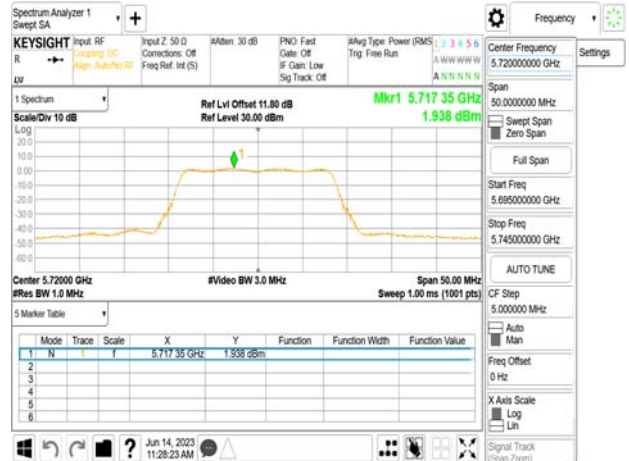
802.11a_20MHz_Chain1_5700MHz



802.11a_20MHz_Chain1_5500MHz



802.11a_20MHz_Chain1_5720MHz_UNII 2C



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