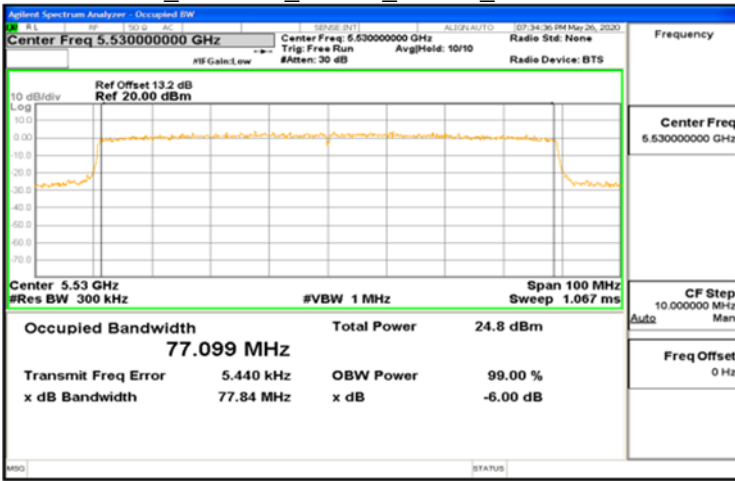
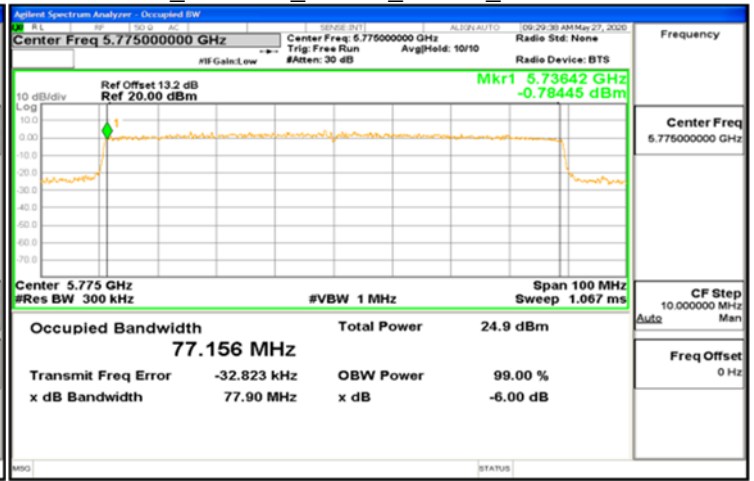


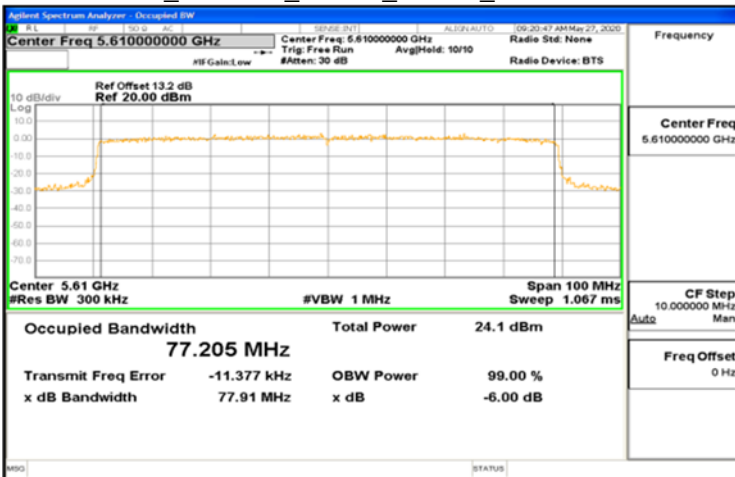
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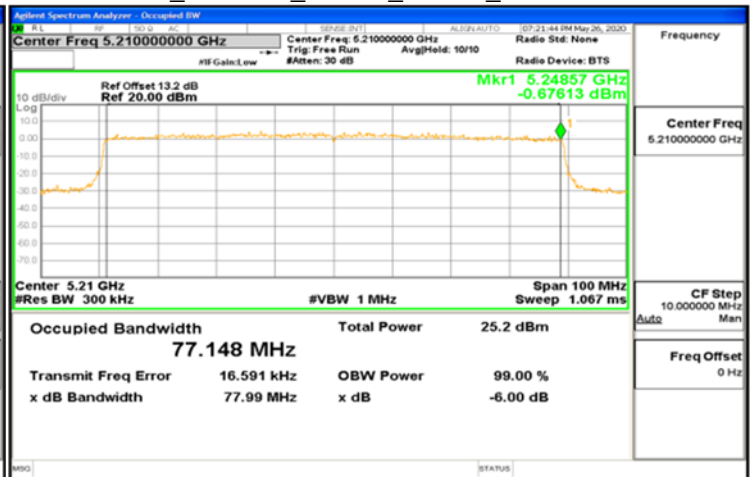
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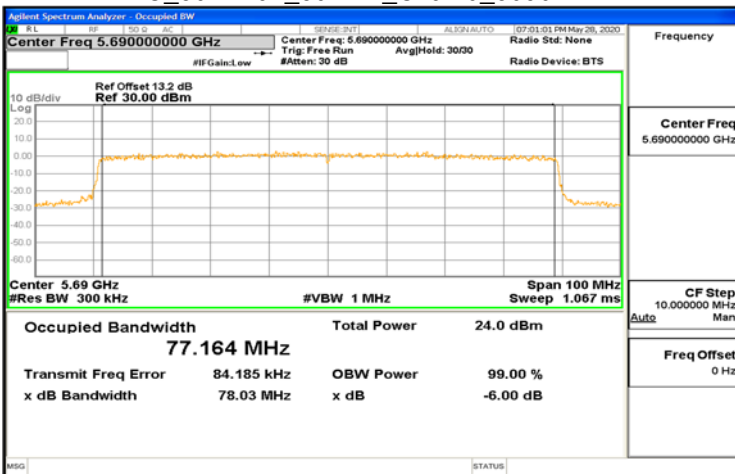
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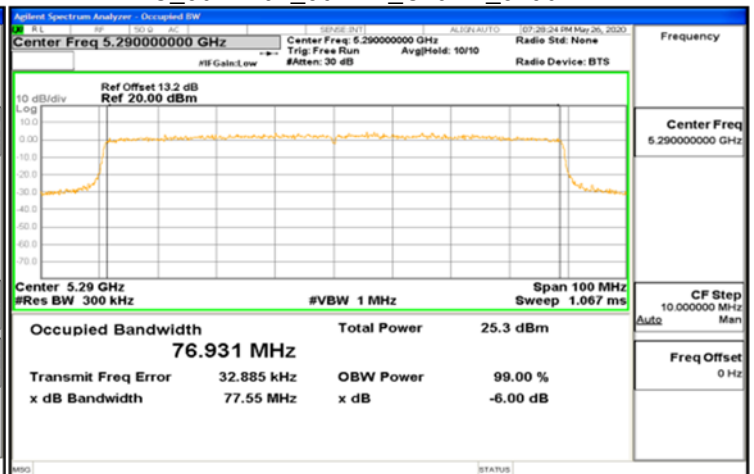
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IC\_802.11ax\_80MHz\_Chain0\_5690MHz



IC\_802.11ax\_80MHz\_Chain1\_5290MHz

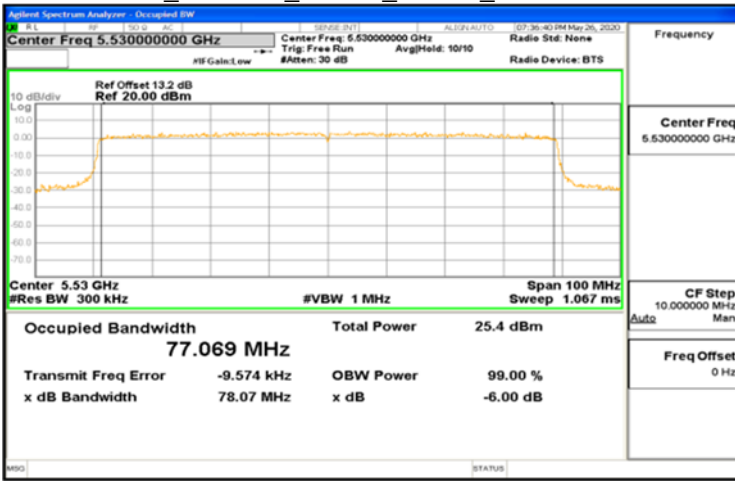


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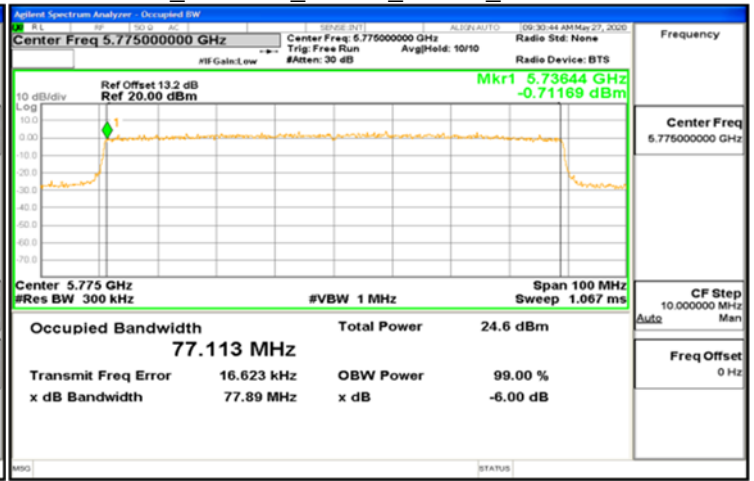
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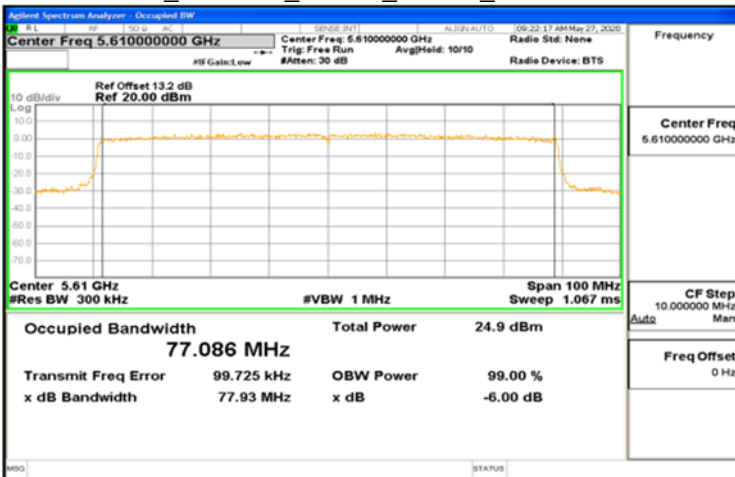
IC\_802.11ax\_80MHz\_Chain1\_5530MHz



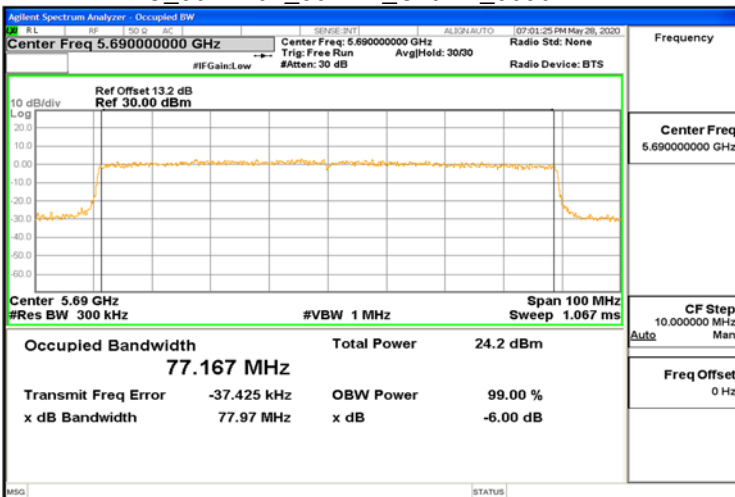
IC\_802.11ax\_80MHz\_Chain1\_5775MHz



IC\_802.11ax\_80MHz\_Chain1\_5610MHz



IC\_802.11ax\_80MHz\_Chain1\_5690MHz



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## 9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

### 9.1 Standard Applicable

#### FCC

OPERZTION Band	EUT CATEGORY	LIMIT
U-NII-1	Access Point (Master device )	1 Watt(30dBm)
	Fixed point-to-point Access Ponit	1 Watt(30dBm)
	√ Mobile and portable client device	250mW(23.98dBm)
U-NII-2A	√	250mW(23.98dBm) or 11dBm+10 log B
U-NII-2C	√	250mW(23.98dBm) or 11dBm+10 log B
U-NII-3	√	1 Watt(30dBm)

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 direction-al gain of the antenna exceeds 6 dBi.

#### ISED

OPERZTION FREQUENCY BAND	LIMIT
5150~5250 MHz	EIRP shall not exceed 200 mW or $10 + 10 \log_{10}B$ , dBm
5250~5350 MHz	Conducted output power shall not exceed 250 mW or $11 + 10 \log_{10}B$ EIRP shall not exceed 1.0 W or $17 + 10 \log_{10}B$ , dBm
5470-5600 MHz and 5650-5725 MHz	Conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$ EIRP shall not exceed 1.0 W or $17 + 10 \log_{10}B$ , dBm
5725~5850 MHz	Conducted output power shall not exceed 1 W

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.

#### 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

$g_{j,k}$  = / 20 10Gk 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 not greater than 6 dBi. Therefore, reduction of power is not required.

	Directional Gain (dBi)	Conducted Power Limit (dBm)
<b>UNII-1</b>	5.77	30.00
<b>UNII-2A</b>	5.77	23.98
<b>U-NII-2C</b>	5.77	23.98
<b>U-NII-3</b>	5.77	30.00

## 9.2 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 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.

## 9.3 Measurement Equipment Used

SGS Conducted Room					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1804001	02/20/2020	02/19/2021
Power Sensor	Anritsu	MA2411B	1726104	02/20/2020	02/19/2021
Power Sensor	Anritsu	MA2411B	1726107	02/20/2020	02/19/2021
DC Power Supply	Agilent	E3640A	MY40005907	10/22/2019	10/21/2020

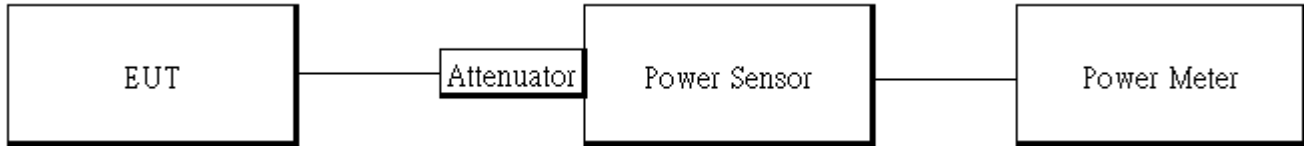
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Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
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### 9.4 Test Set-up



**Note:**

Cable Loss= 13.2 dB

### 9.5 Measurement Result

#### 9.5.1 Conducted output power (FCC)

802.11a\_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	14.51	28.269	23.98	PASS
44	5220	6	<b>15.01</b>	<b>31.719</b>	23.98	PASS
48	5240	6	14.95	31.283	23.98	PASS
52	5260	6	<b>19.72</b>	<b>93.824</b>	23.98 or 11+10log(B) = 24.10	PASS
60	5300	6	19.35	86.161	23.98 or 11+10log(B) = 23.79	PASS
64	5320	6	18.54	71.501	23.98 or 11+10log(B) = 24.29	PASS
100	5500	6	<b>19.15</b>	<b>82.284</b>	23.98 or 11+10log(B) = 23.99	PASS
116	5580	6	18.91	77.860	23.98 or 11+10log(B) = 24.08	PASS
140	5700	6	18.93	78.219	23.98 or 11+10log(B) = 24.22	PASS
144	5720(U-NII 2C)	6	18.12	64.911	23.98 or 11+10log(B) = 23.98	PASS
144	5720 (U-NII 3)	6	13.31	21.449	30	PASS
149	5745	6	19.13	81.906	30	PASS
157	5785	6	18.90	77.681	30	PASS
165	5825	6	<b>19.15</b>	<b>82.284</b>	30	PASS

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## 802.11a\_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	14.69	29.465	23.98	PASS
44	5220	6	<b>15.12</b>	<b>32.532</b>	23.98	PASS
48	5240	6	15.04	31.938	23.98	PASS
52	5260	6	<b>19.56</b>	<b>90.430</b>	23.98 or 11+10log(B) = 23.79	PASS
60	5300	6	19.51	89.395	23.98 or 11+10log(B) = 23.78	PASS
64	5320	6	18.18	65.813	23.98 or 11+10log(B) = 23.77	PASS
100	5500	6	<b>19.79</b>	<b>95.348</b>	23.98 or 11+10log(B) = 23.79	PASS
116	5580	6	19.58	90.848	23.98 or 11+10log(B) = 23.79	PASS
140	5700	6	19.61	91.477	23.98 or 11+10log(B) = 23.79	PASS
144	5720(U-NII 2C)	6	18.39	69.075	23.98 or 11+10log(B) = 23.78	PASS
144	5720 (U-NII 3)	6	13.29	21.355	30	PASS
149	5745	6	<b>19.20</b>	<b>83.236</b>	30	PASS
157	5785	6	18.98	79.125	30	PASS
165	5825	6	18.19	65.965	30	PASS

## 802.11a\_2Tx

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	6	11.71	12.26	15.04	31.894	23.98	PASS
44	5220	6	12.05	12.51	<b>15.33</b>	<b>34.116</b>	23.98	PASS
48	5240	6	12.02	12.42	15.27	33.636	23.98	PASS
52	5260	6	16.41	16.95	<b>19.73</b>	<b>94.012</b>	23.98 or 11+10log(B) = 23.79	PASS
60	5300	6	16.39	16.72	19.60	91.234	23.98 or 11+10log(B) = 23.78	PASS
64	5320	6	16.45	16.89	19.72	93.735	23.98 or 11+10log(B) = 23.77	PASS
100	5500	6	16.52	17.03	19.83	96.071	23.98 or 11+10log(B) = 23.79	PASS
116	5580	6	16.59	17.04	<b>19.86</b>	<b>96.923</b>	23.98 or 11+10log(B) = 23.79	PASS
140	5700	6	16.58	16.71	19.69	93.088	23.98 or 11+10log(B) = 23.79	PASS
144	5720(U-NII 2C)	6	15.47	15.41	18.45	69.968	23.98 or 11+10log(B) = 23.78	PASS
144	5720 (U-NII 3)	6	10.66	10.31	13.64	23.120	30	PASS
149	5745	6	16.75	16.38	19.61	91.461	30	PASS
157	5785	6	17.02	16.55	19.83	96.267	30	PASS
165	5825	6	16.93	16.67	<b>19.85</b>	<b>96.502</b>	30	PASS

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## 802.11n\_HT20\_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	14.90	30.875	23.98	PASS
44	5220	MCS0	15.09	32.256	23.98	PASS
48	5240	MCS0	<b>15.15</b>	<b>32.705</b>	23.98	PASS
52	5260	MCS0	<b>19.68</b>	<b>92.813</b>	23.98 or 11+10log(B) = 24.61	PASS
60	5300	MCS0	19.37	86.419	23.98 or 11+10log(B) = 24.60	PASS
64	5320	MCS0	18.49	70.568	23.98 or 11+10log(B) = 24.07	PASS
100	5500	MCS0	<b>19.09</b>	<b>81.023</b>	23.98 or 11+10log(B) = 24.20	PASS
116	5580	MCS0	18.93	78.093	23.98 or 11+10log(B) = 24.26	PASS
140	5700	MCS0	18.90	77.555	23.98 or 11+10log(B) = 24.26	PASS
144	5720(U-NII 2C)	MCS0	17.90	61.596	23.98 or 11+10log(B) = 24.42	PASS
144	5720 (U-NII 3)	MCS0	13.63	23.050	30	PASS
149	5745	MCS0	<b>19.08</b>	<b>80.837</b>	30	PASS
157	5785	MCS0	18.94	78.273	30	PASS
165	5825	MCS0	19.07	80.651	30	PASS

## 802.11n\_HT20\_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	15.03	31.813	23.98	PASS
44	5220	MCS0	15.25	33.466	23.98	PASS
48	5240	MCS0	<b>15.31</b>	<b>33.932</b>	23.98	PASS
52	5260	MCS0	19.54	89.869	23.98 or 11+10log(B) = 24.04	PASS
60	5300	MCS0	<b>19.73</b>	<b>93.888</b>	23.98 or 11+10log(B) = 24.24	PASS
64	5320	MCS0	18.37	68.645	23.98 or 11+10log(B) = 24.20	PASS
100	5500	MCS0	<b>19.76</b>	<b>94.539</b>	23.98 or 11+10log(B) = 24.09	PASS
116	5580	MCS0	19.52	89.456	23.98 or 11+10log(B) = 24.07	PASS
140	5700	MCS0	19.25	84.064	23.98 or 11+10log(B) = 24.23	PASS
144	5720(U-NII 2C)	MCS0	18.15	65.378	23.98 or 11+10log(B) = 24.14	PASS
144	5720 (U-NII 3)	MCS0	13.55	22.647	30	PASS
149	5745	MCS0	<b>19.14</b>	<b>81.961</b>	30	PASS
157	5785	MCS0	18.91	77.734	30	PASS
165	5825	MCS0	18.10	64.507	30	PASS

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## 802.11n\_HT20\_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS0	11.87	12.56	15.26	33.536	23.98	PASS
44	5220	MCS0	12.16	12.73	15.48	35.324	23.98	PASS
48	5240	MCS0	12.23	12.74	<b>15.52</b>	<b>35.636</b>	23.98	PASS
52	5260	MCS0	16.47	17.11	19.83	96.121	23.98 or 11+10log(B) = 24.04	PASS
60	5300	MCS0	16.67	17.01	<b>19.87</b>	<b>97.045</b>	23.98 or 11+10log(B) = 24.24	PASS
64	5320	MCS0	16.58	16.78	19.71	93.488	23.98 or 11+10log(B) = 24.07	PASS
100	5500	MCS0	16.52	16.98	<b>19.78</b>	<b>95.115</b>	23.98 or 11+10log(B) = 24.09	PASS
116	5580	MCS0	16.53	16.95	19.77	94.874	23.98 or 11+10log(B) = 24.07	PASS
140	5700	MCS0	16.44	16.54	19.52	89.468	23.98 or 11+10log(B) = 24.23	PASS
144	5720(U-NII 2C)	MCS0	15.39	15.52	18.44	69.757	23.98 or 11+10log(B) = 24.14	PASS
144	5720 (U-NII 3)	MCS0	11.12	10.91	14.17	26.104	30	PASS
149	5745	MCS0	16.92	16.54	<b>19.76</b>	<b>94.636</b>	30	PASS
157	5785	MCS0	16.95	16.5	19.76	94.563	30	PASS
165	5825	MCS0	16.83	16.54	19.71	93.623	30	PASS

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## 802.11ax\_20\_Ch0

CH	Frequency (MHz)	Data Rate	RU config.	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	full	15.19	33.027	23.98	PASS
		MCS0	26/0	6.47	4.435	23.98	PASS
		MCS0	52/37	9.43	8.767	23.98	PASS
		MCS0	106/53	12.45	17.574	23.98	PASS
44	5220	MCS0	full	<b>15.33</b>	<b>34.109</b>	23.98	PASS
48	5240	MCS0	full	15.31	33.952	23.98	PASS
52	5260	MCS0	full	<b>19.72</b>	<b>93.728</b>	23.98 or 11+10log(B) = 24.92	PASS
60	5300	MCS0	full	19.44	87.876	23.98 or 11+10log(B) = 24.88	PASS
64	5320	MCS0	full	17.54	56.738	23.98 or 11+10log(B) = 24.52	PASS
		MCS0	26/8	13.24	21.080	23.98 or 11+10log(B) = 24.52	PASS
		MCS0	52/40	15.92	39.073	23.98 or 11+10log(B) = 24.52	PASS
		MCS0	106/54	17.34	54.184	23.98 or 11+10log(B) = 24.52	PASS
100	5500	MCS0	full	18.48	70.448	23.98 or 11+10log(B) = 24.44	PASS
		MCS0	26/0	13.57	22.744	23.98 or 11+10log(B) = 24.44	PASS
		MCS0	52/37	16.20	41.675	23.98 or 11+10log(B) = 24.44	PASS
		MCS0	106/53	18.40	69.163	23.98 or 11+10log(B) = 24.44	PASS
116	5580	MCS0	full	<b>19.03</b>	<b>79.960</b>	23.98 or 11+10log(B) = 24.39	PASS
140	5700	MCS0	full	18.30	67.588	23.98 or 11+10log(B) = 24.35	PASS
		MCS0	26/8	13.93	24.710	23.98 or 11+10log(B) = 24.35	PASS
		MCS0	52/40	16.76	47.410	23.98 or 11+10log(B) = 24.35	PASS
		MCS0	106/54	18.13	64.994	23.98 or 11+10log(B) = 24.35	PASS
144	5720(U-NII 2C)	MCS0	full	17.99	62.965	23.98 or 11+10log(B) = 24.31	PASS
144	5720 (U-NII 3)	MCS0	full	13.60	22.911	30	PASS
149	5745	MCS0	full	<b>19.13</b>	<b>81.822</b>	30	PASS
		MCS0	26/0	16.07	40.446	30	PASS
		MCS0	52/37	18.37	68.687	30	PASS
		MCS0	106/53	18.62	72.756	30	PASS
157	5785	MCS0	full	18.99	79.227	30	PASS
165	5825	MCS0	full	19.10	81.259	30	PASS

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## 802.11ax\_20\_Ch1

CH	Frequency (MHz)	Data Rate	RU config.	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	full	15.07	32.127	23.98	PASS
		MCS0	26/0	6.42	4.384	23.98	PASS
		MCS0	52/37	9.38	8.667	23.98	PASS
		MCS0	106/53	12.40	17.373	23.98	PASS
44	5220	MCS0	full	<b>15.39</b>	34.584	23.98	PASS
48	5240	MCS0	full	15.34	34.188	23.98	PASS
52	5260	MCS0	full	19.56	90.338	23.98 or 11+10log(B) = 24.27	PASS
60	5300	MCS0	full	<b>19.77</b>	94.814	23.98 or 11+10log(B) = 24.26	PASS
64	5320	MCS0	full	17.29	53.564	23.98 or 11+10log(B) = 24.21	PASS
		MCS0	26/8	13.20	20.887	23.98 or 11+10log(B) = 24.21	PASS
		MCS0	52/40	15.81	38.095	23.98 or 11+10log(B) = 24.21	PASS
		MCS0	106/54	17.13	51.626	23.98 or 11+10log(B) = 24.21	PASS
100	5500	MCS0	full	18.33	68.057	23.98 or 11+10log(B) = 24.24	PASS
		MCS0	26/0	13.49	22.329	23.98 or 11+10log(B) = 24.24	PASS
		MCS0	52/37	16.25	42.157	23.98 or 11+10log(B) = 24.24	PASS
		MCS0	106/53	18.26	66.969	23.98 or 11+10log(B) = 24.24	PASS
116	5580	MCS0	full	19.56	90.338	23.98 or 11+10log(B) = 24.26	PASS
140	5700	MCS0	full	18.11	64.695	23.98 or 11+10log(B) = 24.20	PASS
		MCS0	26/8	13.79	23.926	23.98 or 11+10log(B) = 24.20	PASS
		MCS0	52/40	16.53	44.965	23.98 or 11+10log(B) = 24.20	PASS
		MCS0	106/54	17.96	62.499	23.98 or 11+10log(B) = 24.20	PASS
144	5720(U-NII 2C)	MCS0	full	<b>18.32</b>	67.929	23.98 or 11+10log(B) = 24.25	PASS
144	5720 (U-NII 3)	MCS0	full	13.86	24.301	30	PASS
149	5745	MCS0	full	19.24	83.921	30	PASS
		MCS0	26/0	<b>15.87</b>	38.625	30	PASS
		MCS0	52/37	<b>18.28</b>	67.278	30	PASS
		MCS0	106/53	18.71	74.280	30	PASS
157	5785	MCS0	full	18.98	79.044	30	PASS
165	5825	MCS0	full	18.19	65.898	30	PASS

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## 802.11ax\_20\_MIMO

CH	Frequency (MHz)	Data Rate	RU config.	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
				CH 0	CH 1					
36	5180	MCS0	full	12.03	12.72	15.42	34.815	23.98		PASS
		MCS0	26/0	3.23	3.84	6.57	4.544	23.98		PASS
		MCS0	52/37	6.61	6.97	9.82	9.600	23.98		PASS
		MCS0	106/53	9.69	9.92	12.84	19.211	23.98		PASS
44	5220	MCS0	full	12.34	12.93	15.67	36.932	23.98		PASS
48	5240	MCS0	full	12.27	12.77	15.56	35.944	23.98		PASS
52	5260	MCS0	full	16.52	17.2	19.90	97.776	23.98 or 11+10log(B) = 24.27		PASS
60	5300	MCS0	full	16.73	17.06	19.93	98.337	23.98 or 11+10log(B) = 24.26		PASS
64	5320	MCS0	full	16.7	16.86	19.81	95.714	23.98 or 11+10log(B) = 24.21		PASS
		MCS0	26/8	10.53	10.23	13.41	21.936	23.98 or 11+10log(B) = 24.21		PASS
		MCS0	52/40	13.38	13.06	16.25	42.189	23.98 or 11+10log(B) = 24.21		PASS
		MCS0	106/54	16.01	15.87	18.97	78.878	23.98 or 11+10log(B) = 24.21		PASS
100	5500	MCS0	full	16.57	17.05	19.85	96.508	23.98 or 11+10log(B) = 24.24		PASS
		MCS0	26/0	10.62	10.54	13.61	22.957	23.98 or 11+10log(B) = 24.24		PASS
		MCS0	52/37	13.4	13.39	16.42	43.894	23.98 or 11+10log(B) = 24.24		PASS
		MCS0	106/53	16.03	16.28	19.19	82.905	23.98 or 11+10log(B) = 24.24		PASS
116	5580	MCS0	full	16.62	17.05	19.87	97.036	23.98 or 11+10log(B) = 24.26		PASS
140	5700	MCS0	full	16.57	16.82	19.73	93.882	23.98 or 11+10log(B) = 24.20		PASS
		MCS0	26/8	11.04	10.81	13.96	24.863	23.98 or 11+10log(B) = 24.20		PASS
		MCS0	52/40	13.94	13.59	16.80	47.836	23.98 or 11+10log(B) = 24.20		PASS
		MCS0	106/54	16.52	16.41	19.49	89.009	23.98 or 11+10log(B) = 24.20		PASS
144	5720(U-NII 2C)	MCS0	full	15.46	15.59	18.55	71.559	23.98 or 11+10log(B) = 24.25		PASS
144	5720 (U-NII 3)	MCS0	full	11.07	8.03	14.16	26.038	30		PASS
149	5745	MCS0	full	16.92	16.66	19.82	95.961	30		PASS
		MCS0	26/0	13.42	12.87	16.18	41.521	30		PASS
		MCS0	52/37	16.04	15.62	18.86	76.986	30		PASS
		MCS0	106/53	16.67	16.35	19.54	89.990	30		PASS
157	5785	MCS0	full	17.03	16.62	19.86	96.802	30		PASS
165	5825	MCS0	full	16.94	16.66	19.83	96.189	30		PASS

## 802.11n\_HT40\_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	16.04	40.199	23.98	PASS
46	5230	MCS0	16.58	45.522	23.98	PASS
54	5270	MCS0	19.55	90.202	23.98 or 11+10log(B) = 27.67	PASS
62	5310	MCS0	15.40	34.691	23.98 or 11+10log(B) = 27.49	PASS
102	5510	MCS0	17.06	50.841	23.98 or 11+10log(B) = 27.48	PASS
110	5550	MCS0	19.59	91.037	23.98 or 11+10log(B) = 27.43	PASS
134	5670	MCS0	19.54	89.995	23.98 or 11+10log(B) = 27.04	PASS
142	5710(U-NII 2C)	MCS0	19.15	82.302	23.98 or 11+10log(B) = 27.02	PASS
142	5710 (U-NII 3)	MCS0	10.69	11.717	30	PASS
151	5755	MCS0	19.44	87.946	30	PASS
159	5795	MCS0	19.46	88.352	30	PASS

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## 802.11n\_HT40\_Ch1

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	16.26	42.288	23.98	PASS
46	5230	MCS0	<b>16.77</b>	<b>47.557</b>	23.98	PASS
54	5270	MCS0	<b>19.67</b>	<b>92.729</b>	23.98 or 11+10log(B) = 26.94	PASS
62	5310	MCS0	15.60	36.326	23.98 or 11+10log(B) = 26.98	PASS
102	5510	MCS0	17.33	54.103	23.98 or 11+10log(B) = 27.01	PASS
110	5550	MCS0	<b>19.59</b>	<b>91.037</b>	23.98 or 11+10log(B) = 26.99	PASS
134	5670	MCS0	19.56	90.410	23.98 or 11+10log(B) = 27.00	PASS
142	5710(U-NII 2C)	MCS0	19.11	81.553	23.98 or 11+10log(B) = 26.99	PASS
142	5710 (U-NII 3)	MCS0	10.57	11.390	30	PASS
151	5755	MCS0	<b>19.54</b>	<b>89.995</b>	30	PASS
159	5795	MCS0	19.17	82.645	30	PASS

## 802.11n\_HT40\_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
38	5190	MCS0	13.02	13.76	16.43	43.936	23.98	PASS
46	5230	MCS0	13.73	14.23	<b>17.01</b>	<b>50.230</b>	23.98	PASS
54	5270	MCS0	16.52	17.1	<b>19.84</b>	<b>96.431</b>	23.98 or 11+10log(B) = 26.94	PASS
62	5310	MCS0	13.41	13.6	16.53	44.963	23.98 or 11+10log(B) = 26.98	PASS
102	5510	MCS0	16.26	16.61	19.46	88.328	23.98 or 11+10log(B) = 27.01	PASS
110	5550	MCS0	16.73	17.04	<b>19.91</b>	<b>97.954</b>	23.98 or 11+10log(B) = 26.99	PASS
134	5670	MCS0	16.59	17.01	19.83	96.107	23.98 or 11+10log(B) = 27.00	PASS
142	5710(U-NII 2C)	MCS0	16.15	16.20	19.19	83.070	23.98 or 11+10log(B) = 26.99	PASS
142	5720 (U-NII 3)	MCS0	7.69	7.65	10.73	11.826	30	PASS
151	5755	MCS0	16.71	16.35	19.56	90.286	30	PASS
159	5795	MCS0	17.05	16.55	<b>19.83</b>	<b>96.154</b>	30	PASS

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## 802.11ax\_40\_Ch0

CH	Frequency (MHz)	Data Rate	RU config.	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	full	13.44	22.091	23.98	PASS
		MCS0	242/61	13.11	20.475	23.98	PASS
46	5230	MCS0	full	<b>16.61</b>	<b>45.837</b>	23.98	PASS
54	5270	MCS0	full	<b>19.55</b>	<b>90.202</b>	23.98 or 11+10log(B) = 27.31	PASS
62	5310	MCS0	full	15.24	33.436	23.98 or 11+10log(B) = 27.20	PASS
		MCS0	242/62	15.07	32.153	23.98 or 11+10log(B) = 27.20	PASS
102	5510	MCS0	full	16.48	44.485	23.98 or 11+10log(B) = 27.12	PASS
		MCS0	242/61	16.22	41.900	23.98 or 11+10log(B) = 27.12	PASS
110	5550	MCS0	full	<b>19.77</b>	<b>94.889</b>	23.98 or 11+10log(B) = 27.35	PASS
134	5670	MCS0	full	19.55	90.202	23.98 or 11+10log(B) = 27.16	PASS
		MCS0	242/62	19.28	84.765	23.98 or 11+10log(B) = 27.16	PASS
142	5710(U-NII 2C)	MCS0	full	19.10	81.209	23.98 or 11+10log(B) = 27.11	PASS
142	5710 (U-NII 3)	MCS0	full	10.93	12.378	30	PASS
151	5755	MCS0	full	19.62	91.668	30	PASS
		MCS0	242/61	19.51	89.375	30	PASS
159	5795	MCS0	full	<b>19.72</b>	<b>93.803</b>	30	PASS

## 802.11ax\_40\_Ch1

CH	Frequency (MHz)	Data Rate	RU config.	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	full	13.68	23.346	23.98	PASS
		MCS0	242/61	13.34	21.588	23.98	PASS
46	5230	MCS0	full	<b>16.66</b>	<b>46.368</b>	23.98	PASS
54	5270	MCS0	full	<b>19.64</b>	<b>92.091</b>	23.98 or 11+10log(B) = 27.07	PASS
62	5310	MCS0	full	15.29	33.823	23.98 or 11+10log(B) = 27.05	PASS
		MCS0	242/62	15.14	32.675	23.98 or 11+10log(B) = 27.05	PASS
102	5510	MCS0	full	16.65	46.261	23.98 or 11+10log(B) = 27.10	PASS
		MCS0	242/61	16.38	43.473	23.98 or 11+10log(B) = 27.10	PASS
110	5550	MCS0	full	<b>19.57</b>	<b>90.619</b>	23.98 or 11+10log(B) = 27.07	PASS
134	5670	MCS0	full	19.50	89.170	23.98 or 11+10log(B) = 27.06	PASS
		MCS0	242/62	19.29	84.961	23.98 or 11+10log(B) = 27.06	PASS
142	5710(U-NII 2C)	MCS0	full	19.14	82.081	23.98 or 11+10log(B) = 27.07	PASS
142	5710 (U-NII 3)	MCS0	full	10.85	12.155	30	PASS
151	5755	MCS0	full	<b>19.78</b>	<b>95.108</b>	30	PASS
		MCS0	242/61	19.60	91.247	30	PASS
159	5795	MCS0	full	19.13	81.888	30	PASS

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**802.11ax\_40\_MIMO**

CH	Frequency (MHz)	Data Rate	RU config.	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
				CH 0	CH 1					
38	5190	MCS0	full	12.44	13.14	15.83	38.252	23.98		PASS
		MCS0	242/61	12.34	12.91	15.66	36.786	23.98		PASS
46	5230	MCS0	full	13.74	14.03	<b>16.91</b>	<b>49.090</b>	23.98		PASS
54	5270	MCS0	full	16.38	16.89	<b>19.66</b>	<b>92.575</b>	23.98	or 11+10log(B) = 27.07	PASS
62	5310	MCS0	full	12.21	12.37	15.31	33.988	23.98	or 11+10log(B) = 27.05	PASS
		MCS0	242/62	12.27	12.25	15.28	33.748	23.98	or 11+10log(B) = 27.05	PASS
102	5510	MCS0	full	16.12	16.46	19.32	85.424	23.98	or 11+10log(B) = 27.10	PASS
		MCS0	242/61	15.98	16.15	19.09	81.065	23.98	or 11+10log(B) = 27.10	PASS
110	5550	MCS0	full	16.76	17.01	<b>19.91</b>	<b>97.933</b>	23.98	or 11+10log(B) = 27.07	PASS
134	5670	MCS0	full	16.64	17.07	19.88	97.337	23.98	or 11+10log(B) = 27.06	PASS
		MCS0	242/62	16.6	16.92	19.79	95.179	23.98	or 11+10log(B) = 27.06	PASS
142	5710(U-NII 2C)	MCS0	full	16.06	16.17	19.13	81.876	23.98	or 11+10log(B) = 27.07	PASS
142	5710 (U-NII 3)	MCS0	full	7.89	7.88	10.96	12.480	30		PASS
151	5755	MCS0	full	17.02	16.54	19.81	95.700	30		PASS
		MCS0	242/61	16.85	16.47	19.69	93.039	30		PASS
159	5795	MCS0	full	17.09	16.57	<b>19.86</b>	<b>96.833</b>	30		PASS

**802.11ac\_VHT80\_Ch0**

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	<b>15.16</b>	<b>32.826</b>	23.98	PASS
58	5290	MCS0	<b>15.18</b>	<b>32.978</b>	23.98 or 11+10log(B) = 30.76	PASS
106	5530	MCS0	15.46	35.174	23.98 or 11+10log(B) = 30.39	PASS
122	5610	MCS0	<b>19.62</b>	<b>91.668</b>	23.98 or 11+10log(B) = 30.25	PASS
138	5690(U-NII 2C)	MCS0	18.68	73.826	23.98 or 11+10log(B) = 30.18	PASS
138	5690 (U-NII 3)	MCS0	7.92	6.198	30	PASS
155	5775	MCS0	<b>19.22</b>	<b>83.602</b>	30	PASS

**802.11ac\_VHT80\_Ch1**

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	<b>15.25</b>	<b>33.513</b>	23.98	PASS
58	5290	MCS0	<b>15.32</b>	<b>34.058</b>	23.98 or 11+10log(B) = 30.14	PASS
106	5530	MCS0	15.70	37.172	23.98 or 11+10log(B) = 30.13	PASS
122	5610	MCS0	<b>19.69</b>	<b>93.157</b>	23.98 or 11+10log(B) = 30.12	PASS
138	5690(U-NII 2C)	MCS0	19.24	84.031	23.98 or 11+10log(B) = 30.16	PASS
138	5690 (U-NII 3)	MCS0	8.32	6.797	30	PASS
155	5775	MCS0	<b>19.64</b>	<b>92.091</b>	30	PASS

**802.11ac\_VHT80\_MIMO**

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
			CH 0	CH 1					
42	5210	MCS0	12.34	12.96	<b>15.68</b>	<b>37.013</b>	23.98		PASS
58	5290	MCS0	12.81	13.02	<b>15.94</b>	<b>39.253</b>	23.98	or 11+10log(B) = 30.14	PASS
106	5530	MCS0	15.7	16.11	18.93	78.204	23.98	or 11+10log(B) = 30.13	PASS
122	5610	MCS0	16.67	17.1	<b>19.91</b>	<b>98.012</b>	23.98	or 11+10log(B) = 30.12	PASS
138	5690(U-NII 2C)	MCS0	16.00	16.54	19.30	85.025	23.98	or 11+10log(B) = 30.16	PASS
138	5690 (U-NII 3)	MCS0	5.24	5.62	8.54	7.138	30		PASS
155	5775	MCS0	16.91	16.55	<b>19.76</b>	<b>94.541</b>	30		PASS

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**802.11ax\_80\_Ch0**

CH	Frequency (MHz)	Data Rate	RU config.	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	full	<b>12.75</b>	<b>18.831</b>	23.98	PASS
		MCS0	484/65	12.63	18.318	23.98	PASS
58	5290	MCS0	full	<b>12.91</b>	<b>19.538</b>	23.98 or 11+10log(B) = 30.39	PASS
		MCS0	484/66	12.78	18.961	23.98 or 11+10log(B) = 30.39	PASS
106	5530	MCS0	full	16.23	41.963	23.98 or 11+10log(B) = 30.20	PASS
		MCS0	484/65	16.16	41.293	23.98 or 11+10log(B) = 30.20	PASS
122	5610	MCS0	full	<b>19.68</b>	<b>92.869</b>	23.98 or 11+10log(B) = 30.19	PASS
138	5690(U-NII 2C)	MCS0	full	18.84	76.512	23.98 or 11+10log(B) = 30.12	PASS
138	5690 (U-NII 3)	MCS0	full	7.69	5.878	30	PASS
155	5775	MCS0	full	<b>19.29</b>	<b>84.893</b>	30	PASS
		MCS0	484/66	19.15	82.200	30	PASS

**802.11ax\_80\_Ch1**

CH	Frequency (MHz)	Data Rate	RU config.	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	full	<b>12.85</b>	<b>19.270</b>	23.98	PASS
		MCS0	484/65	12.74	18.788	23.98	PASS
58	5290	MCS0	full	<b>12.65</b>	<b>18.402</b>	23.98 or 11+10log(B) = 30.15	PASS
		MCS0	484/66	12.53	17.901	23.98 or 11+10log(B) = 30.15	PASS
106	5530	MCS0	full	16.55	45.172	23.98 or 11+10log(B) = 30.11	PASS
		MCS0	484/65	16.43	43.941	23.98 or 11+10log(B) = 30.11	PASS
122	5610	MCS0	full	<b>19.73</b>	<b>93.945</b>	23.98 or 11+10log(B) = 30.11	PASS
138	5690(U-NII 2C)	MCS0	full	19.34	85.809	23.98 or 11+10log(B) = 30.12	PASS
138	5690 (U-NII 3)	MCS0	full	8.22	6.634	30	PASS
155	5775	MCS0	full	<b>19.73</b>	<b>93.945</b>	30	PASS
		MCS0	484/66	19.62	91.595	30	PASS

**802.11ax\_80\_MIMO**

CH	Frequency (MHz)	Data Rate	RU config.	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
42	5210	MCS0	full	12.31	12.87	<b>15.63</b>	<b>36.543</b>	23.98	PASS
		MCS0	484/65	12.24	12.79	15.55	35.915	23.98	PASS
58	5290	MCS0	full	12.04	12.13	<b>15.11</b>	<b>32.466</b>	23.98 or 11+10log(B) = 30.15	PASS
		MCS0	484/66	11.96	12.02	15.02	31.762	23.98 or 11+10log(B) = 30.15	PASS
106	5530	MCS0	full	15.31	15.64	18.51	70.911	23.98 or 11+10log(B) = 30.11	PASS
		MCS0	484/65	15.26	15.51	18.42	69.435	23.98 or 11+10log(B) = 30.11	PASS
122	5610	MCS0	full	16.39	17.02	<b>19.75</b>	<b>94.307</b>	23.98 or 11+10log(B) = 30.11	PASS
138	5690(U-NII 2C)	MCS0	full	16.28	16.81	19.58	90.796	23.98 or 11+10log(B) = 30.12	PASS
138	5690 (U-NII 3)	MCS0	full	5.13	5.69	8.44	6.975	30	PASS
155	5775	MCS0	full	16.84	16.63	<b>19.77</b>	<b>94.739</b>	30	PASS
		MCS0	484/66	16.73	16.58	19.68	92.996	30	PASS

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**9.5.2 ISED EIRP**

## 802.11a\_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
36	5180	14.51	3.700	18.21	66.269	23.01	or 10+10log(B)= 22.18	PASS
44	5220	<b>15.01</b>	3.700	<b>18.71</b>	<b>74.356</b>	23.01	or 10+10log(B)= 22.17	PASS
48	5240	14.95	3.700	18.65	73.335	23.01	or 10+10log(B)= 22.16	PASS
52	5260	<b>19.72</b>	3.700	<b>23.42</b>	<b>219.945</b>	30	or 17+10log(B)= 29.16	PASS
60	5300	19.35	3.700	23.05	201.982	30	or 17+10log(B)= 29.16	PASS
64	5320	18.54	3.700	22.24	167.615	30	or 17+10log(B)= 29.16	PASS
100	5500	<b>19.15</b>	3.700	<b>22.85</b>	<b>192.892</b>	30	or 17+10log(B)= 29.15	PASS
116	5580	18.91	3.700	22.61	182.521	30	or 17+10log(B)= 29.15	PASS
140	5700	<b>18.93</b>	3.700	<b>22.63</b>	<b>183.364</b>	30	or 17+10log(B)= 29.16	PASS

## 802.11a\_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
36	5180	14.69	1.700	16.39	43.583	23.01	or 10+10log(B)= 22.15	PASS
44	5220	<b>15.12</b>	1.700	<b>16.82</b>	<b>48.119</b>	23.01	or 10+10log(B)= 22.15	PASS
48	5240	15.04	1.700	16.74	47.240	23.01	or 10+10log(B)= 22.15	PASS
52	5260	<b>19.56</b>	1.700	<b>21.26</b>	<b>133.756</b>	30	or 17+10log(B)= 29.15	PASS
60	5300	19.51	1.700	21.21	132.225	30	or 17+10log(B)= 29.15	PASS
64	5320	18.18	1.700	19.88	97.345	30	or 17+10log(B)= 29.15	PASS
100	5500	<b>19.79</b>	1.700	<b>21.49</b>	<b>141.031</b>	30	or 17+10log(B)= 29.15	PASS
116	5580	19.58	1.700	21.28	134.373	30	or 17+10log(B)= 29.15	PASS
140	5700	<b>19.61</b>	1.700	<b>21.31</b>	<b>135.305</b>	30	or 17+10log(B)= 29.15	PASS

## 802.11a\_2Tx

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
36	5180	15.04	5.768	20.80	120.361	23.01	or 10+10log(B)= 22.1466	PASS
44	5220	<b>15.33</b>	5.768	<b>21.10</b>	<b>128.744</b>	23.01	or 10+10log(B)= 22.1471	PASS
48	5240	15.27	5.768	21.04	126.934	23.01	or 10+10log(B)= 22.1471	PASS
52	5260	<b>19.73</b>	5.768	<b>25.50</b>	<b>354.777</b>	30	or 17+10log(B)= 29.1479	PASS
60	5300	19.60	5.768	25.37	344.295	30	or 17+10log(B)= 29.1476	PASS
64	5320	19.72	5.768	25.49	353.732	30	or 17+10log(B)= 29.1479	PASS
100	5500	19.83	5.768	25.59	362.548	30	or 17+10log(B)= 29.149	PASS
116	5580	<b>19.86</b>	5.768	<b>25.63</b>	<b>365.763</b>	30	or 17+10log(B)= 29.1492	PASS
140	5700	<b>19.69</b>	5.768	<b>25.46</b>	<b>351.290</b>	30	or 17+10log(B)= 29.15	PASS

## 802.11n\_HT20\_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
36	5180	14.90	3.700	18.60	72.379	23.01	or 10+10log(B)= 22.47	PASS
44	5220	15.09	3.700	18.79	75.615	23.01	or 10+10log(B)= 22.46	PASS
48	5240	<b>15.15</b>	3.700	<b>18.85</b>	<b>76.667</b>	23.01	or 10+10log(B)= 22.46	PASS
52	5260	<b>19.68</b>	3.700	<b>23.38</b>	<b>217.575</b>	30	or 17+10log(B)= 29.47	PASS
60	5300	19.37	3.700	23.07	202.586	30	or 17+10log(B)= 29.46	PASS
64	5320	18.49	3.700	22.19	165.428	30	or 17+10log(B)= 29.45	PASS
100	5500	<b>19.09</b>	3.700	<b>22.79</b>	<b>189.937</b>	30	or 17+10log(B)= 29.45	PASS
116	5580	18.93	3.700	22.63	183.067	30	or 17+10log(B)= 29.45	PASS
140	5700	<b>18.90</b>	3.700	<b>22.60</b>	<b>181.807</b>	30	or 17+10log(B)= 29.45	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	15.03	1.700	16.73	47.055	23.01	or 10+10log(B)= 22.44	PASS
44	5220	15.25	1.700	16.95	49.501	23.01	or 10+10log(B)= 22.44	PASS
48	5240	<b>15.31</b>	1.700	<b>17.01</b>	<b>50.189</b>	23.01	or 10+10log(B)= 22.44	PASS
52	5260	19.54	1.700	21.24	132.926	30	or 17+10log(B)= 22.44	PASS
60	5300	<b>19.73</b>	1.700	<b>21.43</b>	<b>138.870</b>	30	or 17+10log(B)= 22.44	PASS
64	5320	18.37	1.700	20.07	101.534	30	or 17+10log(B)= 22.44	PASS
100	5500	<b>19.76</b>	1.700	<b>21.46</b>	<b>139.833</b>	30	or 17+10log(B)= 22.44	PASS
116	5580	19.52	1.700	21.22	132.315	30	or 17+10log(B)= 22.44	PASS
140	5700	<b>19.25</b>	1.700	<b>20.95</b>	<b>124.340</b>	30	or 17+10log(B)= 22.45	PASS

## 802.11n\_HT20\_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
36	5180	15.26	5.768	21.02	126.556	23.01	or 10+10log(B)= 22.4408	PASS
44	5220	15.48	5.768	21.25	133.306	23.01	or 10+10log(B)= 22.4396	PASS
48	5240	<b>15.52</b>	5.768	<b>21.29</b>	<b>134.481</b>	23.01	or 10+10log(B)= 22.4396	PASS
52	5260	19.83	5.768	25.60	362.737	30	or 17+10log(B)= 29.4425	PASS
60	5300	<b>19.87</b>	5.768	<b>25.64</b>	<b>366.224</b>	30	or 17+10log(B)= 29.4423	PASS
64	5320	19.71	5.768	25.48	352.800	30	or 17+10log(B)= 29.4386	PASS
100	5500	<b>19.78</b>	5.768	<b>25.55</b>	<b>358.940</b>	30	or 17+10log(B)= 29.4435	PASS
116	5580	19.77	5.768	25.54	358.031	30	or 17+10log(B)= 29.4405	PASS
140	5700	<b>19.52</b>	5.768	<b>25.28</b>	<b>337.631</b>	30	or 17+10log(B)= 29.4455	PASS

## 802.11ax\_20\_Ch0

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
36	5180	full	15.19	3.700	18.89	77.423	23.01	or 10+10log(B)= 22.7777	PASS
		26/0	6.47	3.700	10.17	10.396	23.01	or 10+10log(B)= 22.7777	PASS
		52/37	9.43	3.700	13.13	20.553	23.01	or 10+10log(B)= 22.7777	PASS
		106/53	12.45	3.700	16.15	41.198	23.01	or 10+10log(B)= 22.7777	PASS
44	5220	full	15.33	3.700	<b>19.03</b>	<b>79.960</b>	23.01	or 10+10log(B)= 22.7775	PASS
48	5240	full	15.31	3.700	19.01	79.592	23.01	or 10+10log(B)= 22.7809	PASS
52	5260	full	<b>19.72</b>	3.700	<b>23.42</b>	<b>219.721</b>	30	or 17+10log(B)= 29.7818	PASS
60	5300	full	19.44	3.700	23.14	206.002	30	or 17+10log(B)= 29.7809	PASS
64	5320	full	17.54	3.700	21.24	133.006	30	or 17+10log(B)= 29.7772	PASS
		26/8	13.24	3.700	16.94	49.416	30	or 17+10log(B)= 29.7772	PASS
		52/40	15.92	3.700	19.62	91.595	30	or 17+10log(B)= 29.7772	PASS
		106/54	17.34	3.700	21.04	127.020	30	or 17+10log(B)= 29.7772	PASS
100	5500	full	18.48	3.700	22.18	165.147	30	or 17+10log(B)= 29.769	PASS
		26/0	13.57	3.700	17.27	53.318	30	or 17+10log(B)= 29.769	PASS
		52/37	16.20	3.700	19.90	97.695	30	or 17+10log(B)= 29.769	PASS
		106/53	18.40	3.700	22.10	162.133	30	or 17+10log(B)= 29.769	PASS
116	5580	full	<b>19.03</b>	3.700	<b>22.73</b>	<b>187.444</b>	30	or 17+10log(B)= 29.7694	PASS
140	5700	full	18.30	3.700	22.00	158.442	30	or 17+10log(B)= 29.7722	PASS
		26/8	13.93	3.700	17.63	57.926	30	or 17+10log(B)= 29.7722	PASS
		52/40	<b>16.76</b>	3.700	20.46	111.140	30	or 17+10log(B)= 29.7722	PASS
		106/54	<b>18.13</b>	3.700	21.83	152.360	30	or 17+10log(B)= 29.7722	PASS

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## 802.11ax\_20\_Ch1

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
36	5180	full	15.07	1.700	16.77	47.519	23.01	or 10+10log(B)= 22.7582	PASS
		26/0	6.42	1.700	8.12	6.484	23.01	or 10+10log(B)= 22.7582	PASS
		52/37	9.38	1.700	11.08	12.820	23.01	or 10+10log(B)= 22.7582	PASS
		106/53	12.40	1.700	14.10	25.696	23.01	or 10+10log(B)= 22.7582	PASS
44	5220	full	15.39	1.700	17.09	51.153	23.01	or 10+10log(B)= 22.757	PASS
48	5240	full	15.34	1.700	17.04	50.568	23.01	or 10+10log(B)= 22.7607	PASS
52	5260	full	19.56	1.700	21.26	133.620	30	or 17+10log(B)= 29.7589	PASS
60	5300	full	<b>19.77</b>	1.700	<b>21.47</b>	<b>140.240</b>	30	or 17+10log(B)= 29.7559	PASS
64	5320	full	17.29	1.700	18.99	79.227	30	or 17+10log(B)= 29.7568	PASS
		26/8	13.20	1.700	14.90	30.894	30	or 17+10log(B)= 29.7568	PASS
		52/40	15.81	1.700	17.51	56.347	30	or 17+10log(B)= 29.7568	PASS
		106/54	17.13	1.700	18.83	76.361	30	or 17+10log(B)= 29.7568	PASS
100	5500	full	18.33	1.700	20.03	100.663	30	or 17+10log(B)= 29.7598	PASS
		26/0	13.49	1.700	15.19	33.027	30	or 17+10log(B)= 29.7598	PASS
		52/37	16.25	1.700	17.95	62.355	30	or 17+10log(B)= 29.7598	PASS
		106/53	18.26	1.700	19.96	99.054	30	or 17+10log(B)= 29.7598	PASS
116	5580	full	<b>19.56</b>	1.700	<b>21.26</b>	<b>133.620</b>	30	or 17+10log(B)= 29.7619	PASS
140	5700	full	18.11	1.700	19.81	95.691	30	or 17+10log(B)= 29.7662	PASS
		26/8	13.79	1.700	15.49	35.389	30	or 17+10log(B)= 29.7662	PASS
		52/40	<b>16.53</b>	1.700	<b>18.23</b>	<b>66.508</b>	30	or 17+10log(B)= 29.7662	PASS
		106/54	<b>17.96</b>	1.700	<b>19.66</b>	<b>92.442</b>	30	or 17+10log(B)= 29.7662	PASS

## 802.11ax\_20\_MIMO

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
36	5180	full	15.42	5.768	21.19	131.385	23.01	or 10+10log(B)= 22.7582	PASS
		26/0	6.57	5.768	12.34	17.149	23.01	or 10+10log(B)= 22.7582	PASS
		52/37	9.82	5.768	15.59	36.228	23.01	or 10+10log(B)= 22.7582	PASS
		106/53	12.84	5.768	18.60	72.498	23.01	or 10+10log(B)= 22.7582	PASS
44	5220	full	15.67	5.768	21.44	139.372	23.01	or 10+10log(B)= 22.757	PASS
48	5240	full	15.56	5.768	21.32	135.642	23.01	or 10+10log(B)= 22.7607	PASS
52	5260	full	19.90	5.768	25.67	368.982	30	or 17+10log(B)= 29.7589	PASS
60	5300	full	<b>19.93</b>	5.768	<b>25.69</b>	<b>371.098</b>	30	or 17+10log(B)= 29.7559	PASS
64	5320	full	19.81	5.768	25.58	361.201	30	or 17+10log(B)= 29.7568	PASS
		26/8	13.41	5.768	19.18	82.782	30	or 17+10log(B)= 29.7568	PASS
		52/40	16.25	5.768	22.02	159.210	30	or 17+10log(B)= 29.7568	PASS
		106/54	18.97	5.768	24.74	297.668	30	or 17+10log(B)= 29.7568	PASS
100	5500	full	19.85	5.768	25.61	364.198	30	or 17+10log(B)= 29.7598	PASS
		26/0	13.61	5.768	19.38	86.635	30	or 17+10log(B)= 29.7598	PASS
		52/37	16.42	5.768	22.19	165.644	30	or 17+10log(B)= 29.7598	PASS
		106/53	19.19	5.768	24.95	312.864	30	or 17+10log(B)= 29.7598	PASS
116	5580	full	<b>19.87</b>	5.768	<b>25.64</b>	<b>366.191</b>	30	or 17+10log(B)= 29.7619	PASS
140	5700	full	19.73	5.768	25.49	354.287	30	or 17+10log(B)= 29.7662	PASS
		26/8	13.96	5.768	19.72	93.827	30	or 17+10log(B)= 29.7662	PASS
		52/40	<b>16.80</b>	5.768	<b>22.57</b>	<b>180.521</b>	30	or 17+10log(B)= 29.7662	PASS
		106/54	<b>19.49</b>	5.768	<b>25.26</b>	<b>335.900</b>	30	or 17+10log(B)= 29.7662	PASS

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## 802.11n\_HT40\_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
38	5190	16.04	3.700	19.74	94.236	23.01	or 10+10log(B)= 25.56	PASS
46	5230	<b>16.58</b>	3.700	<b>20.28</b>	<b>106.713</b>	23.01	or 10+10log(B)= 25.56	PASS
54	5270	<b>19.55</b>	3.700	<b>23.25</b>	<b>211.455</b>	30	or 17+10log(B)= 32.56	PASS
62	5310	15.40	3.700	19.10	81.324	30	or 17+10log(B)= 32.56	PASS
102	5510	17.06	3.700	20.76	119.184	30	or 17+10log(B)= 32.56	PASS
110	5550	<b>19.59</b>	3.700	<b>23.29</b>	<b>213.411</b>	30	or 17+10log(B)= 32.56	PASS
134	5670	<b>19.54</b>	3.700	<b>23.24</b>	<b>210.969</b>	30	or 17+10log(B)= 32.56	PASS

## 802.11n\_HT40\_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
38	5190	16.26	1.700	17.96	62.549	23.01	or 10+10log(B)= 25.55	PASS
46	5230	<b>16.77</b>	1.700	<b>18.47</b>	<b>70.342</b>	23.01	or 10+10log(B)= 25.56	PASS
54	5270	<b>19.67</b>	1.700	<b>21.37</b>	<b>137.157</b>	30	or 17+10log(B)= 32.56	PASS
62	5310	15.60	1.700	17.30	53.730	30	or 17+10log(B)= 32.55	PASS
102	5510	17.33	1.700	19.03	80.024	30	or 17+10log(B)= 32.55	PASS
110	5550	<b>19.59</b>	1.700	<b>21.29</b>	<b>134.654</b>	30	or 17+10log(B)= 32.56	PASS
134	5670	<b>19.56</b>	1.700	<b>21.26</b>	<b>133.727</b>	30	or 17+10log(B)= 32.55	PASS

## 802.11n\_HT40\_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
38	5190	16.43	5.768	22.20	165.804	23.01	or 10+10log(B)= 25.5534	PASS
46	5230	<b>17.01</b>	5.768	<b>22.78</b>	<b>189.557</b>	23.01	or 10+10log(B)= 25.5569	PASS
54	5270	<b>19.84</b>	5.768	<b>25.61</b>	<b>363.906</b>	30	or 17+10log(B)= 32.5551	PASS
62	5310	16.53	5.768	22.30	169.678	30	or 17+10log(B)= 32.5548	PASS
102	5510	19.46	5.768	25.23	333.330	30	or 17+10log(B)= 32.5532	PASS
110	5550	<b>19.91</b>	5.768	<b>25.68</b>	<b>369.656</b>	30	or 17+10log(B)= 32.5565	PASS
134	5670	<b>19.83</b>	5.768	<b>25.60</b>	<b>362.685</b>	30	or 17+10log(B)= 32.5541	PASS

## 802.11ax\_40\_Ch0

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
38	5190	full	13.44	3.700	17.14	51.787	23.01	or 10+10log(B)= 25.7661	PASS
		242/61	13.11	3.700	16.81	47.997	23.01	or 10+10log(B)= 25.7661	PASS
46	5230	full	16.61	3.700	<b>20.31</b>	<b>107.453</b>	23.01	or 10+10log(B)= 25.7651	PASS
		full	19.55	3.700	<b>23.25</b>	<b>211.455</b>	30	or 17+10log(B)= 32.7619	PASS
62	5310	full	15.24	3.700	18.94	78.382	30	or 17+10log(B)= 32.7624	PASS
		242/62	15.07	3.700	18.77	75.373	30	or 17+10log(B)= 32.7624	PASS
102	5510	full	16.48	3.700	20.18	104.284	30	or 17+10log(B)= 32.7604	PASS
		242/61	16.22	3.700	19.92	98.224	30	or 17+10log(B)= 32.7604	PASS
110	5550	full	<b>19.77</b>	3.700	<b>23.47</b>	<b>222.442</b>	30	or 17+10log(B)= 32.7601	PASS
134	5670	full	19.55	3.700	23.25	211.455	30	or 17+10log(B)= 32.7597	PASS
		242/62	<b>19.28</b>	3.700	22.98	198.709	30	or 17+10log(B)= 32.7597	PASS

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## 802.11ax\_40\_Ch1

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
38	5190	full	13.68	1.700	15.38	34.532	23.01	or 10+10log(B)= 25.7583	PASS
		242/61	13.34	1.700	15.04	31.931	23.01	or 10+10log(B)= 25.7583	PASS
46	5230	full	16.66	1.700	<b>18.36</b>	<b>68.583</b>	23.01	or 10+10log(B)= 25.7549	PASS
54	5270	full	<b>19.64</b>	1.700	<b>21.34</b>	<b>136.213</b>	30	or 17+10log(B)= 32.7541	PASS
62	5310	full	15.29	1.700	16.99	50.029	30	or 17+10log(B)= 32.7527	PASS
		242/62	15.14	1.700	16.84	48.330	30	or 17+10log(B)= 32.7527	PASS
102	5510	full	16.65	1.700	18.35	68.425	30	or 17+10log(B)= 32.7544	PASS
		242/61	16.38	1.700	18.08	64.301	30	or 17+10log(B)= 32.7544	PASS
110	5550	full	<b>19.57</b>	1.700	<b>21.27</b>	<b>134.035</b>	30	or 17+10log(B)= 32.7559	PASS
134	5670	full	19.50	1.700	21.20	131.892	30	or 17+10log(B)= 32.7549	PASS
		242/62	<b>19.29</b>	1.700	20.99	125.666	30	or 17+10log(B)= 32.7549	PASS

## 802.11ax\_40\_MIMO

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
38	5190	full	15.83	5.768	21.59	144.354	23.01	or 10+10log(B)= 25.7583	PASS
		242/61	15.66	5.768	21.42	138.821	23.01	or 10+10log(B)= 25.7583	PASS
46	5230	full	16.91	5.768	<b>22.68</b>	<b>185.252</b>	23.01	or 10+10log(B)= 25.7549	PASS
54	5270	full	19.66	5.768	<b>25.43</b>	<b>349.357</b>	30	or 17+10log(B)= 32.7541	PASS
62	5310	full	15.31	5.768	21.08	128.261	30	or 17+10log(B)= 32.7527	PASS
		242/62	15.28	5.768	21.05	127.357	30	or 17+10log(B)= 32.7527	PASS
102	5510	full	19.32	5.768	25.08	322.370	30	or 17+10log(B)= 32.7544	PASS
		242/61	19.09	5.768	24.86	305.918	30	or 17+10log(B)= 32.7544	PASS
110	5550	full	<b>19.91</b>	5.768	<b>25.68</b>	<b>369.574</b>	30	or 17+10log(B)= 32.7559	PASS
134	5670	full	19.88	5.768	25.65	367.328	30	or 17+10log(B)= 32.7549	PASS
		242/62	<b>19.79</b>	5.768	25.55	359.183	30	or 17+10log(B)= 32.7549	PASS

## 802.11ac\_VHT80\_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
42	5210	<b>15.16</b>	3.700	<b>18.86</b>	<b>76.952</b>	23.01	or 10+10log(B)= 28.7741	PASS
58	5290	<b>15.18</b>	3.700	<b>18.88</b>	<b>77.307</b>	30	or 17+10log(B)= 35.7728	PASS
106	5530	<b>15.46</b>	3.700	<b>19.16</b>	<b>82.455</b>	30	or 17+10log(B)= 35.7682	PASS

## 802.11ac\_VHT80\_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
42	5210	<b>15.25</b>	1.700	<b>16.95</b>	<b>49.570</b>	23.01	or 10+10log(B)= 28.7609	PASS
58	5290	<b>15.32</b>	1.700	<b>17.02</b>	<b>50.375</b>	30	or 17+10log(B)= 35.7698	PASS
106	5530	<b>15.70</b>	1.700	<b>17.40</b>	<b>54.982</b>	30	or 17+10log(B)= 35.7707	PASS

## 802.11ac\_VHT80\_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
42	5210	<b>15.68</b>	5.768	<b>21.45</b>	<b>139.678</b>	23.01	or 10+10log(B)= 28.7609	PASS
58	5290	<b>15.94</b>	5.768	<b>21.71</b>	<b>148.132</b>	30	or 17+10log(B)= 35.7698	PASS
106	5530	<b>18.93</b>	5.768	<b>24.70</b>	<b>295.124</b>	30	or 17+10log(B)= 35.7682	PASS

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## 802.11ax\_80\_Ch0

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	full	12.75	3.700	<b>16.45</b>	<b>44.144</b>	23.01 or 10+10log(B)= 28.8714	PASS
		484/65	12.63	3.700	16.33	42.941	23.01 or 10+10log(B)= 28.8714	PASS
58	5290	full	12.91	3.700	<b>16.61</b>	<b>45.801</b>	30 or 17+10log(B)= 35.8762	PASS
		484/66	12.78	3.700	16.48	44.450	30 or 17+10log(B)= 35.8762	PASS
106	5530	full	<b>16.23</b>	3.700	<b>19.93</b>	<b>98.372</b>	30 or 17+10log(B)= 35.8705	PASS
		484/65	<b>16.16</b>	3.700	19.86	96.799	30 or 17+10log(B)= 35.8705	PASS

## 802.11ax\_80\_Ch1

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	full	12.85	1.700	<b>14.55</b>	<b>28.502</b>	23.01 or 10+10log(B)= 28.8732	PASS
		484/65	12.74	1.700	14.44	27.789	23.01 or 10+10log(B)= 28.8732	PASS
58	5290	full	12.65	1.700	<b>14.35</b>	<b>27.219</b>	30 or 17+10log(B)= 35.861	PASS
		484/66	12.53	1.700	14.23	26.477	30 or 17+10log(B)= 35.861	PASS
106	5530	full	<b>16.55</b>	1.700	<b>18.25</b>	<b>66.815</b>	30 or 17+10log(B)= 35.8688	PASS
		484/65	<b>16.43</b>	1.700	18.13	64.994	30 or 17+10log(B)= 35.8688	PASS

## 802.11ax\_80\_MIMO

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	full	15.63	5.768	<b>21.40</b>	<b>137.904</b>	23.01 or 10+10log(B)= 28.8714	PASS
		484/65	15.55	5.768	21.32	135.533	23.01 or 10+10log(B)= 28.8714	PASS
58	5290	full	15.11	5.768	<b>20.88</b>	<b>122.518</b>	30 or 17+10log(B)= 35.861	PASS
		484/66	15.02	5.768	20.79	119.863	30 or 17+10log(B)= 35.861	PASS
106	5530	full	<b>18.51</b>	5.768	<b>24.27</b>	<b>267.602</b>	30 or 17+10log(B)= 35.8688	PASS
		484/65	<b>18.42</b>	5.768	24.18	262.032	30 or 17+10log(B)= 35.8688	PASS

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**9.5.3 Conducted output power (ISED)**
**802.11a\_Ch0**

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	<b>19.72</b>	<b>93.824</b>	23.98 or $11+10\log(B) = 23.16$	PASS
60	5300	19.35	86.161	23.98 or $11+10\log(B) = 23.16$	PASS
64	5320	18.54	71.501	23.98 or $11+10\log(B) = 23.16$	PASS
100	5500	<b>19.15</b>	<b>82.284</b>	23.98 or $11+10\log(B) = 23.15$	PASS
116	5580	18.91	77.860	23.98 or $11+10\log(B) = 23.15$	PASS
140	5700	18.93	78.219	23.98 or $11+10\log(B) = 23.16$	PASS
144	5720(U-NII 2C)	18.12	64.911	23.98 or $11+10\log(B) = 23.1524$	PASS
144	5720 (U-NII 3)	13.31	21.449	30	PASS
149	5745	19.13	81.906	30	PASS
157	5785	18.90	77.681	30	PASS
165	5825	<b>19.15</b>	<b>82.284</b>	30	PASS

**802.11a\_Ch1**

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	<b>19.56</b>	<b>90.430</b>	23.98 or $11+10\log(B) = 23.148$	PASS
60	5300	19.51	89.395	23.98 or $11+10\log(B) = 23.148$	PASS
64	5320	18.18	65.813	23.98 or $11+10\log(B) = 23.148$	PASS
100	5500	<b>19.79</b>	<b>95.348</b>	23.98 or $11+10\log(B) = 23.149$	PASS
116	5580	19.58	90.848	23.98 or $11+10\log(B) = 23.149$	PASS
140	5700	19.61	91.477	23.98 or $11+10\log(B) = 23.15$	PASS
144	5720(U-NII 2C)	18.39	69.075	23.98 or $11+10\log(B) = 23.148$	PASS
144	5720 (U-NII 3)	13.29	21.355	30	PASS
149	5745	<b>19.20</b>	<b>83.236</b>	30	PASS
157	5785	18.98	79.125	30	PASS
165	5825	18.19	65.965	30	PASS

**802.11a\_2Tx**

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
52	5260	16.41	16.95	<b>19.73</b>	<b>94.012</b>	23.98 or $11+10\log(B) = 23.148$	PASS
60	5300	16.39	16.72	19.60	91.234	23.98 or $11+10\log(B) = 23.148$	PASS
64	5320	16.45	16.89	19.72	93.735	23.98 or $11+10\log(B) = 23.148$	PASS
100	5500	16.52	17.03	19.83	96.071	23.98 or $11+10\log(B) = 23.149$	PASS
116	5580	16.59	17.04	<b>19.86</b>	<b>96.923</b>	23.98 or $11+10\log(B) = 23.149$	PASS
140	5700	16.58	16.71	19.69	93.088	23.98 or $11+10\log(B) = 23.15$	PASS
144	5720(U-NII 2C)	15.4701	15.4101	18.45	69.968	23.98 or $11+10\log(B) = 23.148$	PASS
144	5720 (U-NII 3)	10.6609	10.3118	13.64	23.120	30	PASS
149	5745	16.75	16.38	19.61	91.461	30	PASS
157	5785	17.02	16.55	19.83	96.267	30	PASS
165	5825	16.93	16.67	<b>19.85</b>	<b>96.502</b>	30	PASS

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**802.11n\_HT20\_Ch0**

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	<b>19.68</b>	<b>92.813</b>	23.98 or $11+10\log(B) = 23.47$	PASS
60	5300	19.37	86.419	23.98 or $11+10\log(B) = 23.4596$	PASS
64	5320	18.49	70.568	23.98 or $11+10\log(B) = 23.45$	PASS
100	5500	<b>19.09</b>	<b>81.023</b>	23.98 or $11+10\log(B) = 23.4502$	PASS
116	5580	18.93	78.093	23.98 or $11+10\log(B) = 23.45$	PASS
140	5700	18.90	77.555	23.98 or $11+10\log(B) = 23.45$	PASS
144	5720(U-NII 2C)	17.90	61.596	23.98 or $11+10\log(B) = 23.4536$	PASS
144	5720 (U-NII 3)	13.63	23.050	30	PASS
149	5745	<b>19.08</b>	<b>80.837</b>	30	PASS
157	5785	18.94	78.273	30	PASS
165	5825	19.07	80.651	30	PASS

**802.11n\_HT20\_Ch1**

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	19.54	89.869	23.98 or $11+10\log(B) = 23.443$	PASS
60	5300	<b>19.73</b>	<b>93.888</b>	23.98 or $11+10\log(B) = 23.442$	PASS
64	5320	18.37	68.645	23.98 or $11+10\log(B) = 23.439$	PASS
100	5500	<b>19.76</b>	<b>94.539</b>	23.98 or $11+10\log(B) = 23.444$	PASS
116	5580	19.52	89.456	23.98 or $11+10\log(B) = 23.441$	PASS
140	5700	19.25	84.064	23.98 or $11+10\log(B) = 23.445$	PASS
144	5720(U-NII 2C)	18.15	65.378	23.98 or $11+10\log(B) = 23.444$	PASS
144	5720 (U-NII 3)	13.55	22.647	30	PASS
149	5745	<b>19.14</b>	<b>81.961</b>	30	PASS
157	5785	18.91	77.734	30	PASS
165	5825	18.10	64.507	30	PASS

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## 802.11ax\_20\_Ch0

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	full	<b>19.72</b>	<b>93.728</b>	23.98 or 11+10log(B) = 23.7818	PASS
60	5300	full	19.44	87.876	23.98 or 11+10log(B) = 23.7809	PASS
64	5320	full	17.54	56.738	23.98 or 11+10log(B) = 23.7772	PASS
		26/8	13.24	21.080	23.98 or 11+10log(B) = 23.7772	PASS
		52/40	15.92	39.073	23.98 or 11+10log(B) = 23.7772	PASS
		106/54	17.34	54.184	23.98 or 11+10log(B) = 23.7772	PASS
100	5500	full	18.48	70.448	23.98 or 11+10log(B) = 23.769	PASS
		26/0	13.57	22.744	23.98 or 11+10log(B) = 23.769	PASS
		52/37	16.20	41.675	23.98 or 11+10log(B) = 23.769	PASS
		106/53	18.40	69.163	23.98 or 11+10log(B) = 23.769	PASS
116	5580	full	<b>19.03</b>	<b>79.960</b>	23.98 or 11+10log(B) = 23.7694	PASS
140	5700	full	18.30	67.588	23.98 or 11+10log(B) = 23.7722	PASS
		26/8	13.93	24.710	23.98 or 11+10log(B) = 23.7722	PASS
		52/40	16.76	47.410	23.98 or 11+10log(B) = 23.7722	PASS
		106/54	18.13	64.994	23.98 or 11+10log(B) = 23.7722	PASS
144	5720(U-NII	full	17.99	62.965	23.98 or 11+10log(B) = 23.7708	PASS
144	5720 (U-NII 3)	full	13.60	22.911	30	PASS
149	5745	full	<b>19.13</b>	<b>81.822</b>	30	PASS
		26/0	16.07	40.446	30	PASS
		52/37	18.37	68.687	30	PASS
		106/53	18.62	72.756	30	PASS
157	5785	full	18.99	79.227	30	PASS
165	5825	full	19.10	81.259	30	PASS

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## 802.11ax\_20\_Ch1

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	full	19.56	90.338	23.98 or 11+10log(B) = 23.7589	PASS
60	5300	full	<b>19.77</b>	<b>94.814</b>	23.98 or 11+10log(B) = 23.7559	PASS
64	5320	full	17.29	53.564	23.98 or 11+10log(B) = 23.7568	PASS
		26/8	13.20	20.887	23.98 or 11+10log(B) = 23.7568	PASS
		52/40	15.81	38.095	23.98 or 11+10log(B) = 23.7568	PASS
		106/54	17.13	51.626	23.98 or 11+10log(B) = 23.7568	PASS
100	5500	full	18.33	68.057	23.98 or 11+10log(B) = 23.7598	PASS
		26/0	13.49	22.329	23.98 or 11+10log(B) = 23.7598	PASS
		52/37	16.25	42.157	23.98 or 11+10log(B) = 23.7598	PASS
		106/53	18.26	66.969	23.98 or 11+10log(B) = 23.7598	PASS
116	5580	full	<b>19.56</b>	<b>90.338</b>	23.98 or 11+10log(B) = 23.7619	PASS
140	5700	full	18.11	64.695	23.98 or 11+10log(B) = 23.7662	PASS
		26/8	13.79	23.926	23.98 or 11+10log(B) = 23.7662	PASS
		52/40	16.53	44.965	23.98 or 11+10log(B) = 23.7662	PASS
		106/54	17.96	62.499	23.98 or 11+10log(B) = 23.7662	PASS
144	5720(U-NII 2C)	full	18.32	67.929	23.98 or 11+10log(B) = 23.7628	PASS
144	5720 (U-NII 3)	full	13.86	24.301	30	PASS
149	5745	full	<b>19.24</b>	<b>83.921</b>	30	PASS
		26/0	15.87	38.625	30	PASS
		52/37	18.28	67.278	30	PASS
		106/53	18.71	74.280	30	PASS
157	5785	full	<b>18.98</b>	<b>79.044</b>	30	PASS
165	5825	full	18.19	65.898	30	PASS

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## 802.11ax\_20\_MIMO

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
52	5260	full	16.52	17.2	19.90	97.776	23.98 or 11+10log(B) = 23.7589	PASS
60	5300	full	16.73	17.06	19.93	<b>98.337</b>	23.98 or 11+10log(B) = 23.7559	PASS
64	5320	full	16.7	16.86	19.81	95.714	23.98 or 11+10log(B) = 23.7568	PASS
		26/8	10.53	10.23	13.41	21.936	23.98 or 11+10log(B) = 23.7568	PASS
		52/40	13.38	13.06	16.25	42.189	23.98 or 11+10log(B) = 23.7568	PASS
		106/54	16.01	15.87	18.97	78.878	23.98 or 11+10log(B) = 23.7568	PASS
100	5500	full	16.57	17.05	19.85	96.508	23.98 or 11+10log(B) = 23.7598	PASS
		26/0	10.62	10.54	13.61	22.957	23.98 or 11+10log(B) = 23.7598	PASS
		52/37	13.4	13.39	16.42	43.894	23.98 or 11+10log(B) = 23.7598	PASS
		106/53	16.03	16.28	19.19	82.905	23.98 or 11+10log(B) = 23.7598	PASS
116	5580	full	16.62	17.05	19.87	<b>97.036</b>	23.98 or 11+10log(B) = 23.7619	PASS
140	5700	full	16.57	16.82	19.73	93.882	23.98 or 11+10log(B) = 23.7662	PASS
		26/8	11.04	10.81	13.96	24.863	23.98 or 11+10log(B) = 23.7662	PASS
		52/40	13.94	13.59	16.80	47.836	23.98 or 11+10log(B) = 23.7662	PASS
		106/54	16.52	16.41	19.49	89.009	23.98 or 11+10log(B) = 23.7662	PASS
144	5720(U-NII 2C)	full	15.4623	15.5918	18.55	71.559	23.98 or 11+10log(B) = 23.7628	PASS
144	5720 (U-NII 3)	full	11.0717	8.02551	14.16	26.038	30	PASS
149	5745	full	16.92	16.66	19.82	<b>95.961</b>	30	PASS
		26/0	13.42	12.87	16.18	41.521	30	PASS
		52/37	16.04	15.62	18.86	76.986	30	PASS
		106/53	16.67	16.35	19.54	89.990	30	PASS
157	5785	full	17.03	16.62	19.86	<b>96.802</b>	30	PASS
165	5825	full	16.94	16.66	19.83	96.189	30	PASS

## 802.11n\_HT40\_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	<b>19.55</b>	<b>90.202</b>	23.98 or 11+10log(B) = 26.56	PASS
62	5310	15.40	34.691	23.98 or 11+10log(B) = 26.56	PASS
102	5510	17.06	50.841	23.98 or 11+10log(B) = 26.56	PASS
110	5550	<b>19.59</b>	<b>91.037</b>	23.98 or 11+10log(B) = 26.56	PASS
134	5670	19.54	89.995	23.98 or 11+10log(B) = 26.56	PASS
142	5710(U-NII 2C)	19.15	82.302	23.98 or 11+10log(B) = 26.56	PASS
142	5710 (U-NII 3)	10.69	11.717	30	PASS
151	5755	19.44	87.946	30	PASS
159	5795	<b>19.46</b>	<b>88.352</b>	30	PASS

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## 802.11n\_HT40\_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	19.67	92.729	23.98 or $11+10\log(B) = 26.555$	PASS
62	5310	15.60	36.326	23.98 or $11+10\log(B) = 26.555$	PASS
102	5510	17.33	54.103	23.98 or $11+10\log(B) = 26.553$	PASS
110	5550	19.59	91.037	23.98 or $11+10\log(B) = 26.557$	PASS
134	5670	19.56	90.410	23.98 or $11+10\log(B) = 26.554$	PASS
142	5710(U-NII 2C)	19.11	81.553	23.98 or $11+10\log(B) = 26.557$	PASS
142	5710 (U-NII 3)	10.57	11.390	30	PASS
151	5755	19.54	89.995	30	PASS
159	5795	19.17	82.645	30	PASS

## 802.11n\_HT40\_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
54	5270	16.52	17.1	19.84	96.431	23.98 or $11+10\log(B) = 26.555$	PASS
62	5310	13.41	13.6	16.53	44.963	23.98 or $11+10\log(B) = 26.555$	PASS
102	5510	16.26	16.61	19.46	88.328	23.98 or $11+10\log(B) = 26.553$	PASS
110	5550	16.73	17.04	19.91	97.954	23.98 or $11+10\log(B) = 26.557$	PASS
134	5670	16.59	17.01	19.83	96.107	23.98 or $11+10\log(B) = 26.554$	PASS
142	5710(U-NII 2C)	16.1519	16.2022	19.19	83.070	23.98 or $11+10\log(B) = 26.557$	PASS
142	5710 (U-NII 3)	7.68604	7.65301	10.73	11.826	30	PASS
151	5755	16.71	16.35	19.56	90.286	30	PASS
159	5795	17.05	16.55	19.83	96.154	30	PASS

## 802.11ax\_40\_Ch0

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	full	19.55	90.202	23.98 or $11+10\log(B) = 26.7619$	PASS
62	5310	full	15.24	33.436	23.98 or $11+10\log(B) = 26.7624$	PASS
		242/62	15.07	32.153	23.98 or $11+10\log(B) = 26.7624$	PASS
102	5510	full	16.48	44.485	23.98 or $11+10\log(B) = 26.7604$	PASS
		242/61	16.22	41.900	23.98 or $11+10\log(B) = 26.7604$	PASS
110	5550	full	19.77	94.889	23.98 or $11+10\log(B) = 26.7601$	PASS
134	5670	full	19.55	90.202	23.98 or $11+10\log(B) = 26.7597$	PASS
		242/62	19.28	84.765	23.98 or $11+10\log(B) = 26.7597$	PASS
142	5710(U-NII)	full	19.10	81.209	23.98 or $11+10\log(B) = 26.7591$	PASS
142	5710 (U-NII 3)	full	10.93	12.378	30	PASS
151	5755	full	19.62	91.668	30	PASS
		242/61	19.51	89.375	30	PASS
159	5795	full	19.72	93.803	30	PASS

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**802.11ax\_40\_Ch1**

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	full	<b>19.64</b>	<b>92.091</b>	23.98 or 11+10log(B) = 26.754	PASS
62	5310	full	15.29	33.823	23.98 or 11+10log(B) = 26.753	PASS
		242/62	15.14	32.675	23.98 or 11+10log(B) = 26.753	PASS
102	5510	full	16.65	46.261	23.98 or 11+10log(B) = 26.754	PASS
		242/61	16.38	43.473	23.98 or 11+10log(B) = 26.754	PASS
110	5550	full	<b>19.57</b>	<b>90.619</b>	23.98 or 11+10log(B) = 26.756	PASS
134	5670	full	19.50	89.170	23.98 or 11+10log(B) = 26.755	PASS
		242/62	19.29	84.961	23.98 or 11+10log(B) = 26.755	PASS
142	5710(U-NII)	full	19.14	82.081	23.98 or 11+10log(B) = 26.758	PASS
142	5710 (U-NII 3)	full	10.85	12.155	30	PASS
151	5755	full	<b>19.78</b>	<b>95.108</b>	30	PASS
		242/61	19.60	91.247	30	PASS
159	5795	full	19.13	81.888	30	PASS

**802.11ax\_40\_MIMO**

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
54	5270	full	16.38	16.89	<b>19.66</b>	<b>92.575</b>	23.98 or 11+10log(B) = 26.754	PASS
62	5310	full	12.21	12.37	15.31	33.988	23.98 or 11+10log(B) = 26.753	PASS
		242/62	12.27	12.25	15.28	33.748	23.98 or 11+10log(B) = 26.753	PASS
102	5510	full	16.12	16.46	19.32	85.424	23.98 or 11+10log(B) = 26.754	PASS
		242/61	15.98	16.15	19.09	81.065	23.98 or 11+10log(B) = 26.754	PASS
110	5550	full	16.76	17.01	<b>19.91</b>	<b>97.933</b>	23.98 or 11+10log(B) = 26.756	PASS
134	5670	full	16.64	17.07	19.88	97.337	23.98 or 11+10log(B) = 26.755	PASS
		242/62	16.6	16.92	19.79	95.179	23.98 or 11+10log(B) = 26.755	PASS
142	5710(U-NII)	full	16.0639	16.1702	19.13	81.876	23.98 or 11+10log(B) = 26.758	PASS
142	5710 (U-NII 3)	full	7.89438	7.87551	10.96	12.480	30	PASS
151	5755	full	17.02	16.54	19.81	95.700	30	PASS
		242/61	16.85	16.47	19.69	93.039	30	PASS
159	5795	full	17.09	16.57	<b>19.86</b>	<b>96.833</b>	30	PASS

**802.11ac\_VHT80\_Ch0**

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	<b>15.18</b>	<b>32.978</b>	23.98 or 11+10log(B) = 29.7728	PASS
106	5530	15.46	35.174	23.98 or 11+10log(B) = 29.7682	PASS
122	5610	<b>19.62</b>	<b>91.668</b>	23.98 or 11+10log(B) = 29.7708	PASS
138	5690(U-NII 2C)	18.68	73.826	23.98 or 11+10log(B) = 29.7724	PASS
138	5690 (U-NII 3)	7.92	6.198	30	PASS
155	5775	<b>19.22</b>	<b>83.602</b>	30	PASS

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**802.11ac\_VHT80\_Ch1**

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	<b>15.32</b>	<b>34.058</b>	23.98 or $11+10\log(B) = 29.77$	PASS
106	5530	15.70	37.172	23.98 or $11+10\log(B) = 29.771$	PASS
122	5610	<b>19.69</b>	<b>93.157</b>	23.98 or $11+10\log(B) = 29.77$	PASS
138	5690(U-NII 2C)	19.24	84.031	23.98 or $11+10\log(B) = 29.768$	PASS
138	5690 (U-NII 3)	8.32	6.797	30	PASS
155	5775	<b>19.64</b>	<b>92.091</b>	30	PASS

**802.11ac\_VHT80\_MIMO**

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
58	5290	12.81	13.02	<b>15.94</b>	<b>39.253</b>	23.98 or $11+10\log(B) = 29.77$	PASS
106	5530	15.7	16.11	18.93	78.204	23.98 or $11+10\log(B) = 29.768$	PASS
122	5610	16.67	17.1	<b>19.91</b>	<b>98.012</b>	23.98 or $11+10\log(B) = 29.77$	PASS
138	5690(U-NII 2C)	15.9999	16.5422	19.30	85.025	23.98 or $11+10\log(B) = 29.768$	PASS
138	5690 (U-NII 3)	5.24009	5.62075	8.54	7.138	30	PASS
155	5775	16.91	16.55	<b>19.76</b>	<b>94.541</b>	30	PASS

**802.11ax\_80\_Ch0**

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	full	<b>12.91</b>	<b>19.538</b>	23.98 or $11+10\log(B) = 29.8762$	PASS
		484/66	12.78	18.961	23.98 or $11+10\log(B) = 29.8762$	PASS
106	5530	full	16.23	41.963	23.98 or $11+10\log(B) = 29.8705$	PASS
		484/65	16.16	41.293	23.98 or $11+10\log(B) = 29.8705$	PASS
122	5610	full	<b>19.68</b>	<b>92.869</b>	23.98 or $11+10\log(B) = 29.8765$	PASS
138	5690(U-NII)	full	18.84	76.512	23.98 or $11+10\log(B) = 29.8741$	PASS
138	5690 (U-NII 3)	full	7.69	5.878	30	PASS
155	5775	full	<b>19.29</b>	<b>84.893</b>	30	PASS
		484/66	19.15	82.200	30	PASS

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## 802.11ax\_80\_Ch1

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	full	<b>12.65</b>	<b>18.402</b>	23.98 or $11+10\log(B) = 29.861$	PASS
		484/66	12.53	17.901	23.98 or $11+10\log(B) = 29.861$	PASS
106	5530	full	16.55	45.172	23.98 or $11+10\log(B) = 29.869$	PASS
		484/65	16.43	43.941	23.98 or $11+10\log(B) = 29.869$	PASS
122	5610	full	<b>19.73</b>	<b>93.945</b>	23.98 or $11+10\log(B) = 29.87$	PASS
138	5690(U-NII)	full	19.34	85.809	23.98 or $11+10\log(B) = 29.874$	PASS
138	5690 (U-NII 3)	full	8.22	6.634	30	PASS
155	5775	full	<b>19.73</b>	<b>93.945</b>	30	PASS
		484/66	19.62	91.595	30	PASS

## 802.11ax\_80\_MIMO

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
58	5290	full	12.04	12.13	<b>15.11</b>	<b>32.466</b>	23.98 or $11+10\log(B) = 29.861$	PASS
		484/66	11.96	12.02	15.02	31.762	23.98 or $11+10\log(B) = 29.861$	PASS
106	5530	full	15.31	15.64	18.51	70.911	23.98 or $11+10\log(B) = 29.869$	PASS
		484/65	15.26	15.51	18.42	69.435	23.98 or $11+10\log(B) = 29.869$	PASS
122	5610	full	16.39	17.02	<b>19.75</b>	<b>94.307</b>	23.98 or $11+10\log(B) = 29.87$	PASS
138	5690(U-NII)	full	16.2786	16.8066	19.58	90.796	23.98 or $11+10\log(B) = 29.874$	PASS
138	5690 (U-NII 3)	full	5.1334	5.68887	8.44	6.975	30	PASS
155	5775	full	16.84	16.63	<b>19.77</b>	<b>94.739</b>	30	PASS
		484/66	16.73	16.58	19.68	92.996	30	PASS

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## 10 MAXIMUM POWER SPECTRAL DENSITY

### 10.1 Standard Applicable

#### FCC

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Master device )	17dBm/ MHz
		Fixed point-to-point Access Ponit	
	√	Mobile and portable client device	11dBm/ MHz
U-NII-2A	√		11dBm/ MHz
U-NII-2C	√		11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz

If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### ISED

OPERZTION FREQUENCY BAND	LIMIT
5150~5250 MHz	EIRP spectral density 10 dBm / MHz
5250~5350 MHz	11dBm / MHz
5470-5600 MHz and 5650-5725 MHz	11dBm / MHz
5725~5850 MHz	30dBm / 500 kHz

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

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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 10Gk 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 not greater than 6 dBi. Therefore, reduction of power is not required.

	Effective Legacy Gain (dBi)	PSD Limit	
<b>UNII-1</b>	5.77	11.00	dBm/MHz
<b>UNII-2A</b>	5.77	11.00	dBm/MHz
<b>U-NII-2C</b>	5.77	11.00	dBm/MHz
<b>U-NII-3</b>	5.77	30.00	dBm/500 kHz

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### 10.2 Measurement Procedure

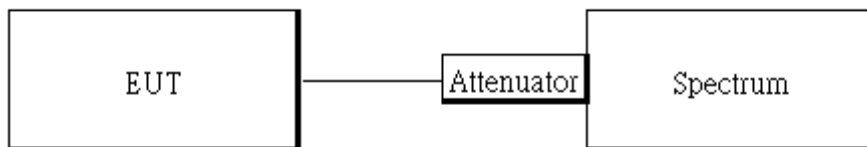
1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**  
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, 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=500 kHz, VBW≥ 3RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
5. Use the cursor on spectrum to peak search the highest level of trace
6. 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.
8. 802.11n/ac/ax MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure the PSD for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

**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 on this report 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**

### 10.3 Measurement Equipment Used

SGS Conducted Room					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/06/2020	05/05/2021
DC Power Supply	Agilent	E3640A	MY40005907	10/22/2019	10/21/2020
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021

### 10.4 Test Set-up



**Note:**

Cable Loss= 13.2 dB

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## 10.5 Measurement Result

### 10.5.1 Power spectral density

POWER DENSITY 802.11a MODE				
Frequency (MHz)	PSD W/O Duty Factor (dBm)	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180.00	3.60	3.60	11.00	-7.40
5220.00	3.56	3.56	11.00	-7.44
5240.00	3.25	3.25	11.00	-7.75
5260.00	7.64	7.64	11.00	-3.36
5300.00	8.23	8.23	11.00	-2.77
5320.00	8.42	8.42	11.00	-2.58
5500.00	7.90	7.90	11.00	-3.10
5580.00	7.66	7.66	11.00	-3.34
5700.00	7.40	7.40	11.00	-3.60
5720 (U-NII 2C)	7.52	7.52	11.00	-3.48
5720 (U-NII 3)	3.91	3.91	30.00	-26.09
5745.00	4.43	4.43	30.00	-25.57
5785.00	4.65	4.65	30.00	-25.35
5825.00	4.73	4.73	30.00	-25.27
POWER DENSITY 802.11n HT20 MODE				
Frequency (MHz)	PSD W/O Duty Factor (dBm)	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180.00	3.57	3.57	11	-7.43
5220.00	3.57	3.57	11	-7.43
5240.00	3.48	3.48	11	-7.52
5260.00	7.80	7.80	11	-3.20
5300.00	8.15	8.15	11	-2.85
5320.00	7.97	7.97	11	-3.03
5500.00	7.41	7.41	11	-3.59
5580.00	7.06	7.06	11	-3.94
5700.00	6.92	6.92	11	-4.08
5720 (U-NII 2C)	7.38	7.38	11	-3.62
5720 (U-NII 3)	3.77	3.77	30	-26.23
5745.00	1.86	1.86	30	-28.14
5785.00	4.78	4.78	30	-25.22
5825.00	4.59	4.59	30	-25.41

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POWER DENSITY 802.11ax 20 MODE					
Frequency (MHz)	RU config.	PSD W/O Duty Factor (dBm)	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	full	3.53	3.53	11	-7.47
	26/0	3.37	3.37	11	-7.63
	52/37	3.66	3.66	11	-7.34
	106/53	3.73	3.73	11	-7.27
5220	full	3.57	3.57	11	-7.43
5240	full	3.42	3.42	11	-7.58
5260	full	7.93	7.93	11	-3.07
5300	full	7.88	7.88	11	-3.12
5320	full	7.71	7.71	11	-3.29
	26/8	10.28	10.28	11	-0.72
	52/40	10.34	10.34	11	-0.66
	106/54	10.33	10.33	11	-0.67
5500	full	7.39	7.39	11	-3.61
	26/0	10.20	10.20	11	-0.80
	52/37	10.36	10.36	11	-0.64
	106/53	10.23	10.23	11	-0.77
5580	full	7.10	7.10	11	-3.90
5700	full	6.81	6.81	11	-4.19
	26/8	9.95	9.95	11	-1.05
	52/40	10.03	10.03	11	-0.97
	106/54	9.84	9.84	11	-1.16
5720 (U-NII 2C)	full	7.33	7.33	11	-3.67
5720 (U-NII 3)	full	3.74	3.74	30	-26.26
5745	full	4.87	4.87	30	-25.13
	26/0	10.03	10.03	30	-19.97
	52/37	9.85	9.85	30	-20.15
	106/53	8.10	8.10	30	-21.90
5785	full	4.76	4.76	30	-25.24
5825	full	4.48	4.48	30	-25.52
POWER DENSITY 802.11n HT40 MODE					
Frequency (MHz)		PSD W/O Duty Factor (dBm)	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5190.00		2.12	2.12	11	-8.88
5230.00		2.12	2.12	11	-8.88
5270.00		4.85	4.85	11	-6.15
5310.00		2.22	2.22	11	-8.78
5510.00		5.08	5.08	11	-5.92
5550.00		4.72	4.72	11	-6.28
5670.00		5.09	5.09	11	-5.91
5710 (U-NII 2C)		4.39	4.39	11	-6.61
5710 (U-NII 3)		-0.06	-0.06	30	-30.06
5755.00		1.73	1.73	30	-28.27
5795.00		1.60	1.60	30	-28.40

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POWER DENSITY 802.11ax 40 MODE					
Frequency (MHz)	RU config.	PSD W/O Duty Factor (dBm)	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5190	full	1.19	1.19	11	-9.81
	242/61	3.3	3.30	11	-7.70
5230	full	1.78	1.78	11	-9.22
5270	full	4.43	4.43	11	-6.57
5310	full	0.76	0.76	11	-10.24
	242/62	3.32	3.32	11	-7.68
5510	full	4.27	4.27	11	-6.73
	242/61	6.83	6.83	11	-4.17
5550	full	4.55	4.55	11	-6.45
5670	full	4.88	4.88	11	-6.12
	242/62	7.50	7.50	11	-3.50
5710 (U-NII 2C)	full	4.18	4.18	11	-6.82
5710 (U-NII 3)	full	-0.29	-0.29	30	-30.29
5755	full	2.12	2.12	30	-27.88
	242/61	4.83	4.83	30	-25.17
5795	full	1.89	1.89	30	-28.11
POWER DENSITY 802.11ac VHT80 MODE					
Frequency (MHz)		PSD W/O Duty Factor (dBm)	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5210.00		-1.90	-1.90	11	-12.90
5290.00		-1.70	-1.70	11	-12.70
5530.00		1.31	1.31	11	-9.69
5610.00		1.67	1.67	11	-9.33
5690 (U-NII 2C)		1.26	1.26	11	-9.74
5690 (U-NII 3)		-4.16	-4.16	30	-34.16
5775.00		-1.39	-1.39	30	-31.39
POWER DENSITY 802.11ax 80 MODE					
Frequency (MHz)	RU config.	PSD W/O Duty Factor (dBm)	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5210	full	-2.04	-2.04	11	-13.04
	484/65	0.44	0.44	11	-10.56
5290	full	-2.50	-2.50	11	-13.50
	484/66	0.02	0.02	11	-10.98
5530	full	0.69	0.69	11	-10.31
	484/65	3.46	3.46	11	-7.54
5610	full	1.77	1.77	11	-9.23
5690 (U-NII 2C)	full	1.48	1.48	11	-9.52
5690 (U-NII 3)	full	-3.70	-3.70	30	-33.70
5775	full	-1.08	-1.08	30	-31.08
	484/66	1.79	1.79	30	-28.21

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**10.5.2 EIRP spectral density ( ISED )**

EIRP spectral density 802.11a MODE						
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)	
5180	3.60	5.77	9.37	10	-0.63	
5220	3.56	5.77	9.33	10	-0.67	
5240	3.25	5.77	9.02	10	-0.98	
EIRP spectral density 802.11n HT20 MODE						
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)	
5180	3.57	5.77	9.34	10	-0.66	
5220	3.57	5.77	9.34	10	-0.66	
5240	3.48	5.77	9.25	10	-0.75	
EIRP spectral density 802.11ax 20 MODE						
Freq. (MHz)	RU config.	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	full	3.53	5.77	9.30	10	-0.70
	26/0	3.37	5.77	9.14	10	-0.86
	52/37	3.66	5.77	9.43	10	-0.57
	106/53	3.73	5.77	9.50	10	-0.50
5220	full	3.57	5.77	9.34	10	-0.66
5240	full	3.42	5.77	9.19	10	-0.81
EIRP spectral density 802.11n HT40 MODE						
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)	
5190	2.12	5.77	7.89	10	-2.11	
5230	2.12	5.77	7.89	10	-2.11	
EIRP spectral density 802.11ax 40 MODE						
Freq. (MHz)	RU config.	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5190	full	1.19	5.77	6.96	10	-3.04
	242/61	3.30	5.77	9.07	10	-0.93
5230	full	1.78	5.77	7.55	10	-2.45

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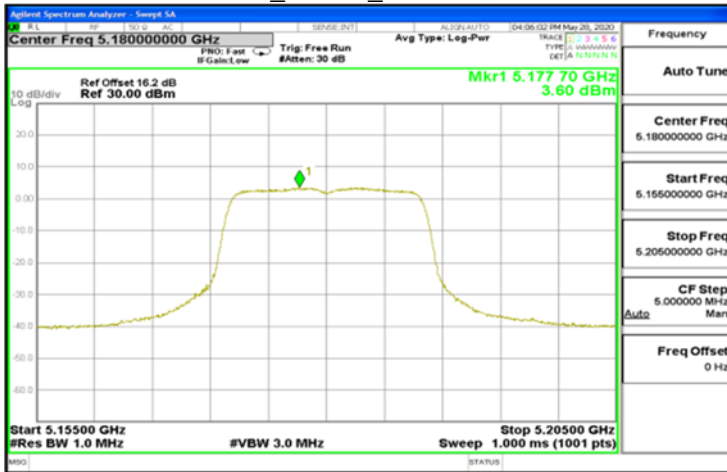
EIRP spectral density 802.11ac VHT80 MODE						
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)	
5210	-1.90	5.77	3.87	10	-6.13	
EIRP spectral density 802.11ax 80 MODE						
Freq. (MHz)	RU config.	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5210	full	-2.04	5.77	3.73	10	-6.27
	484/65	0.44	5.77	6.21	10	-3.79

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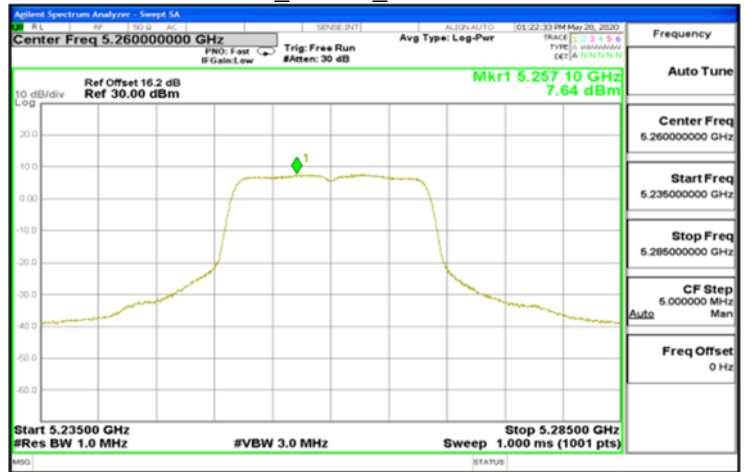
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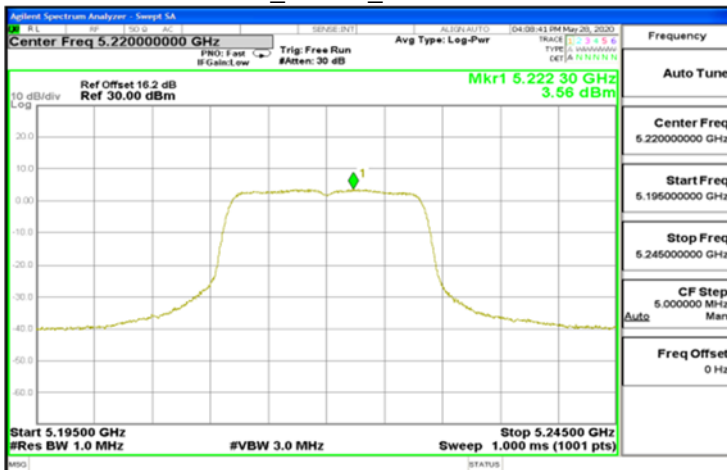
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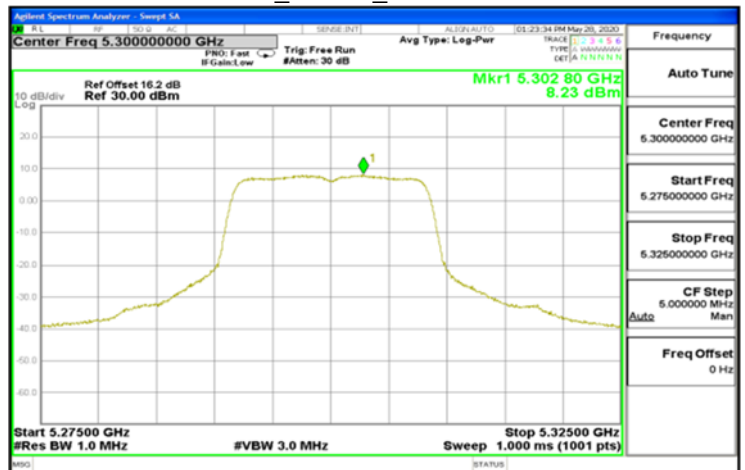
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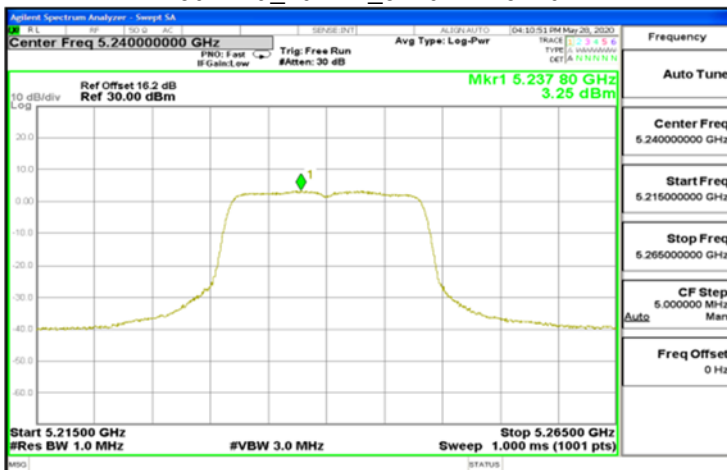
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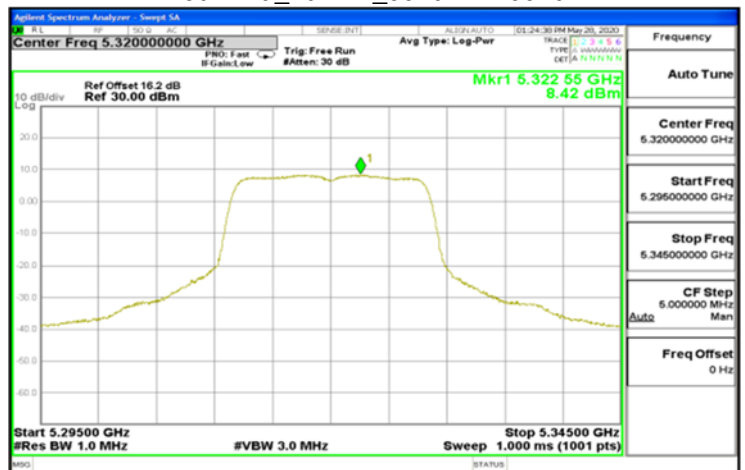
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802.11a\_20MHz\_5240MHz-5240



802.11a\_20MHz\_5320MHz-5320

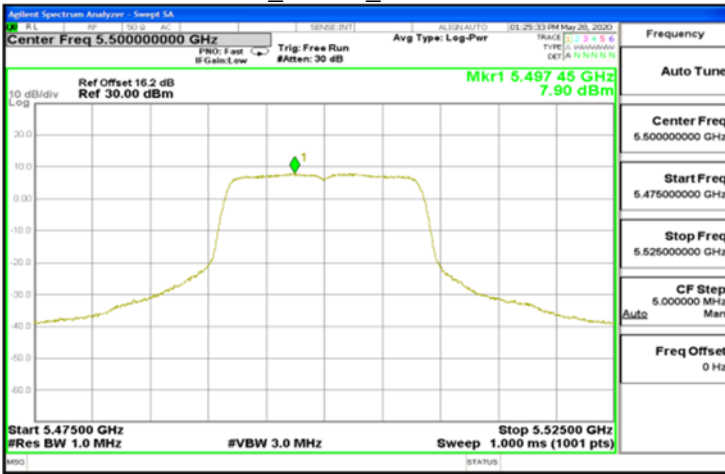


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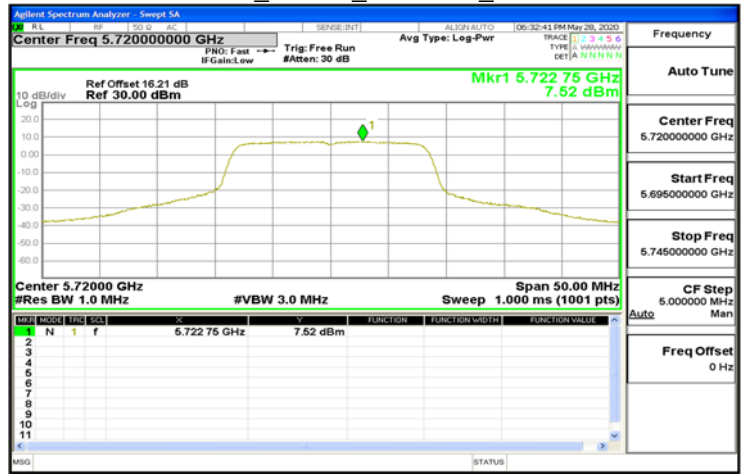
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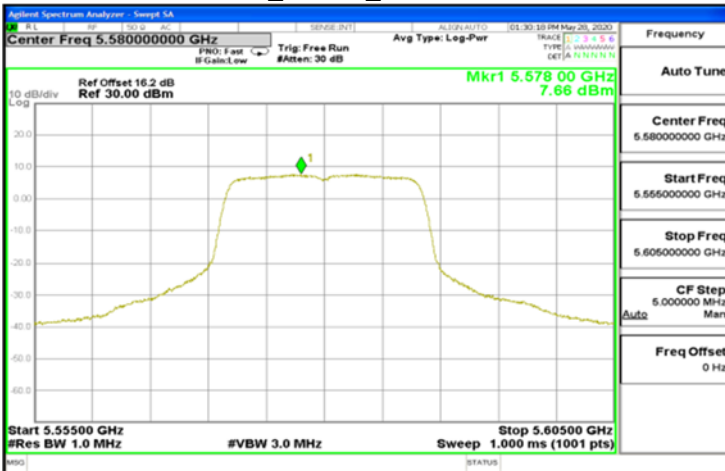
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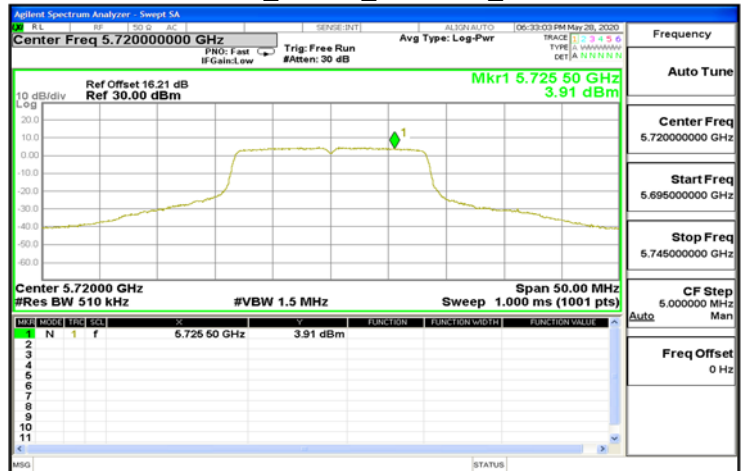
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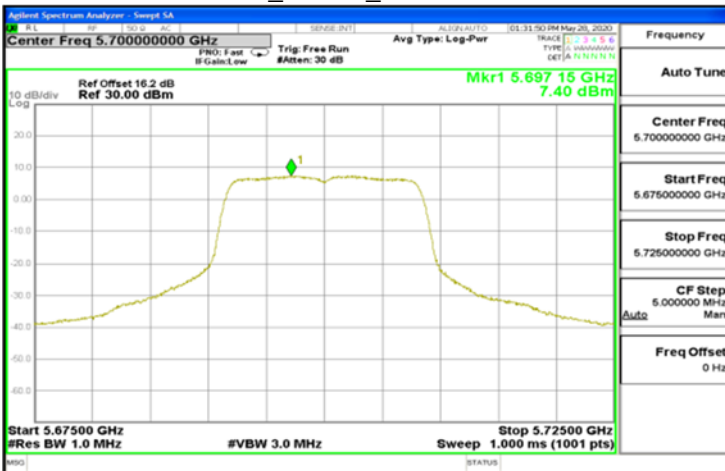
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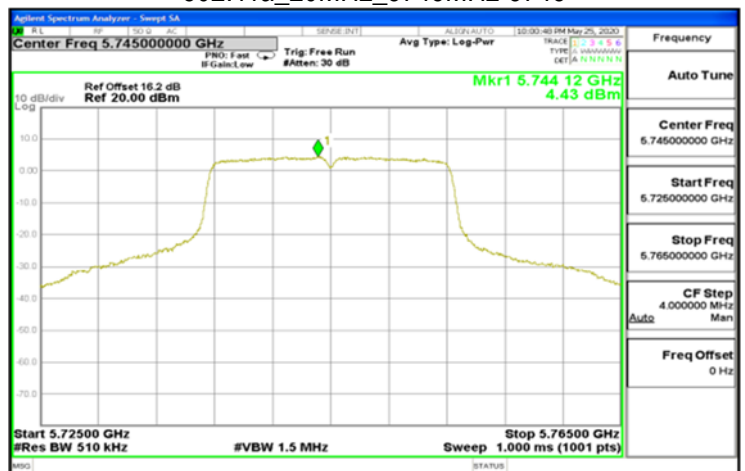
802.11a\_20MHz\_5720MHz\_UNII 3



802.11a\_20MHz\_5700MHz-5700



802.11a\_20MHz\_5745MHz-5745



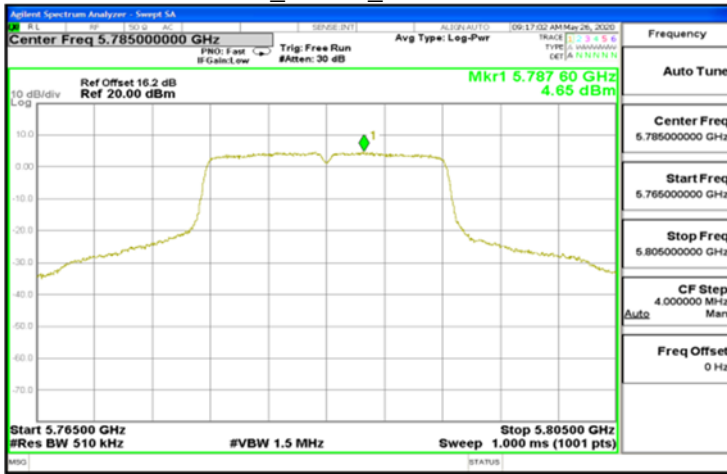
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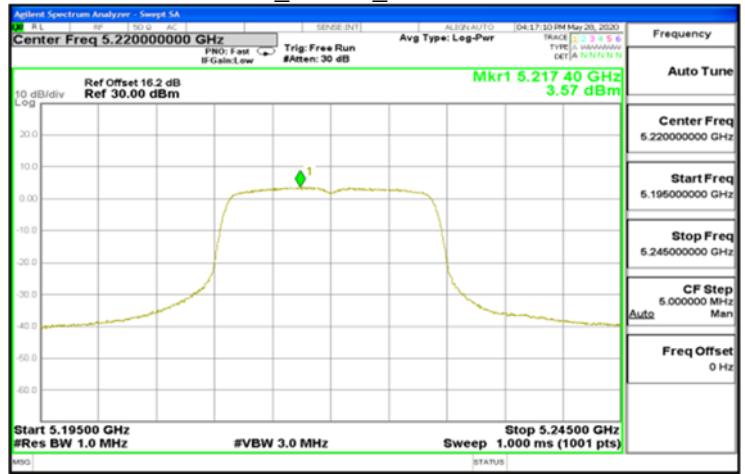
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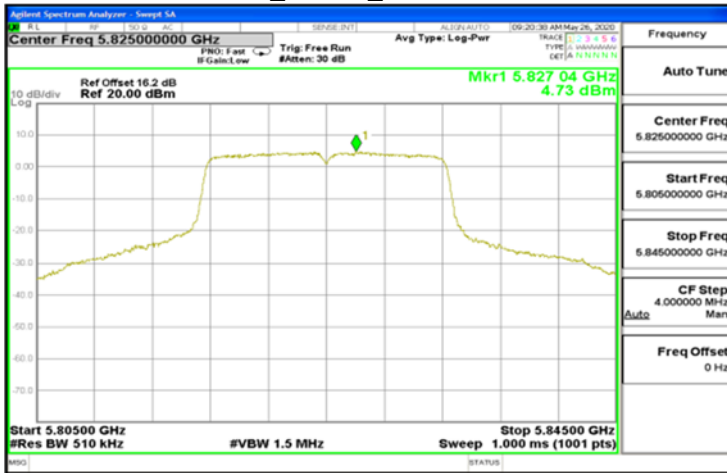
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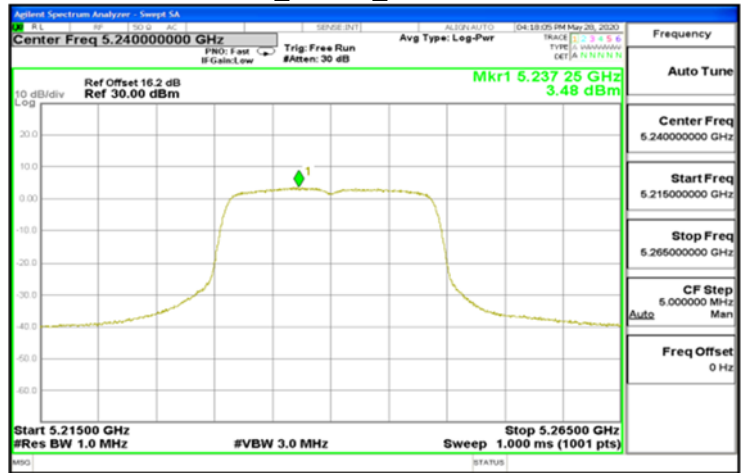
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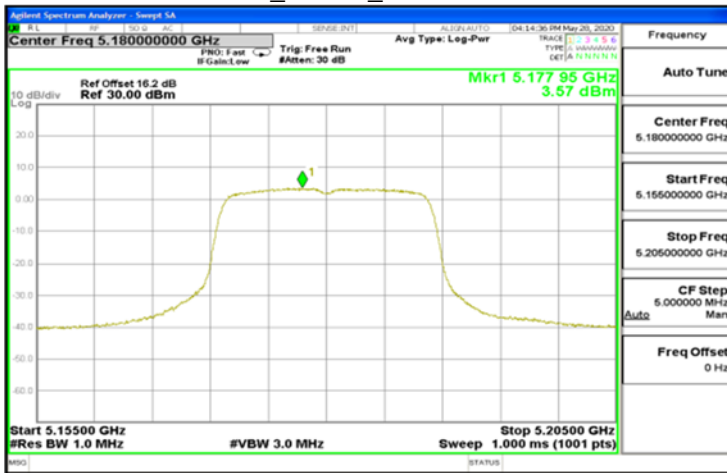
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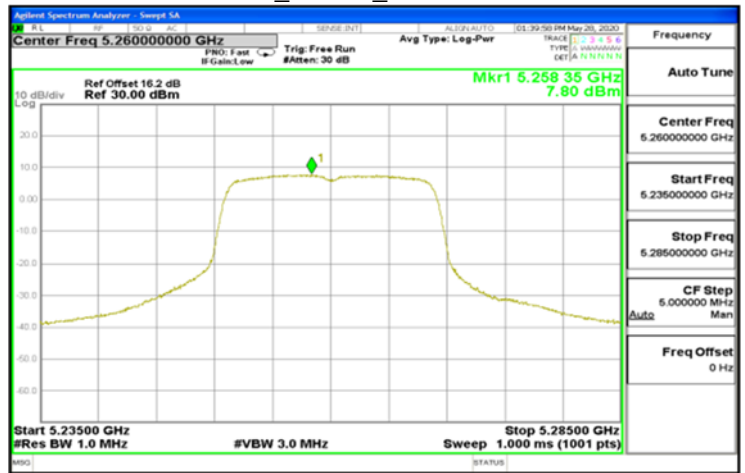
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802.11n\_20MHz\_5180MHz-5180



802.11n\_20MHz\_5260MHz-5260

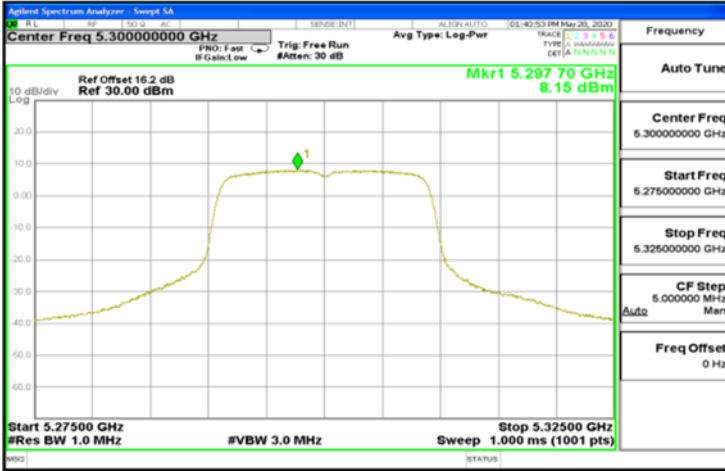


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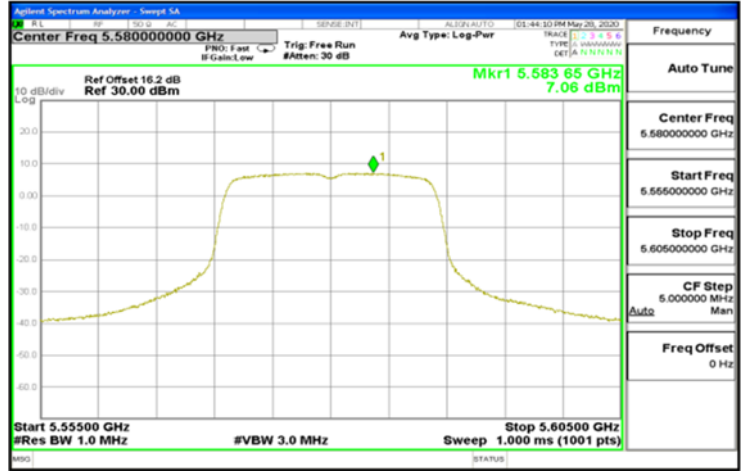
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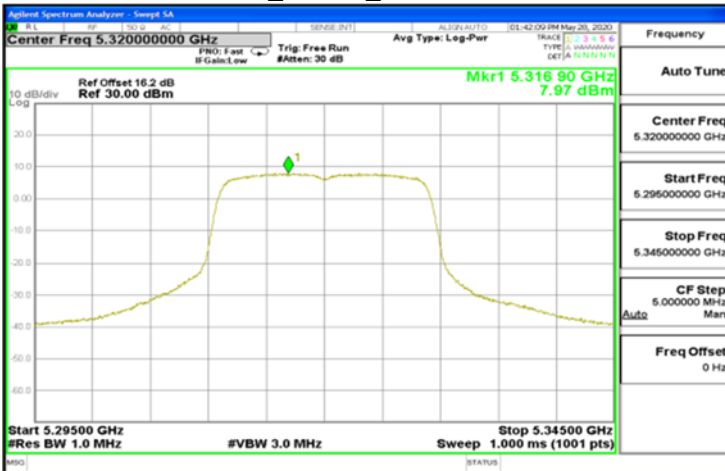
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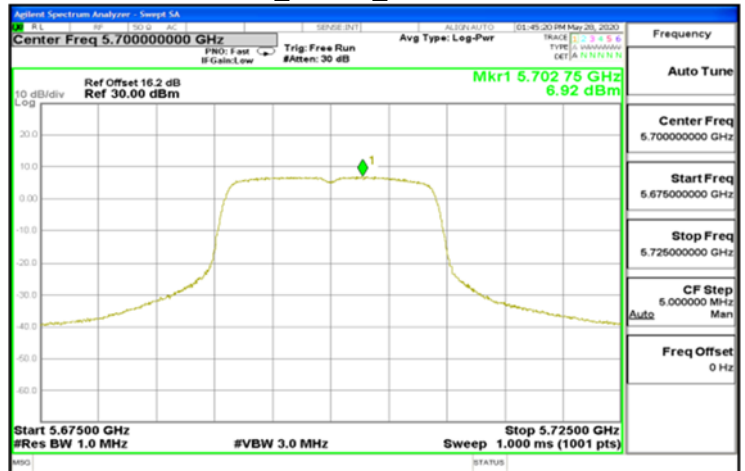
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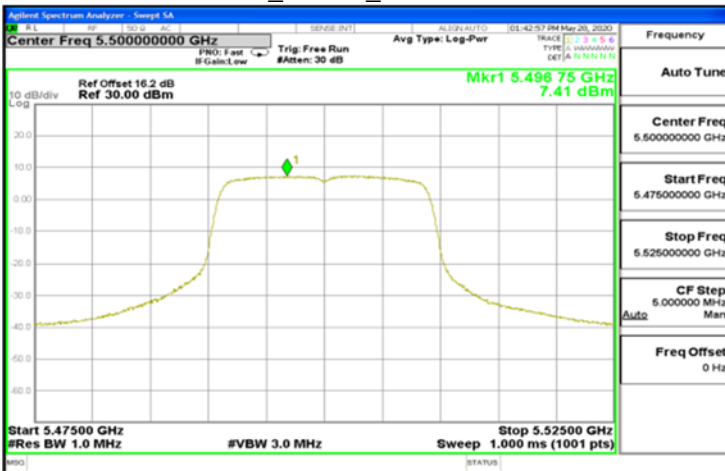
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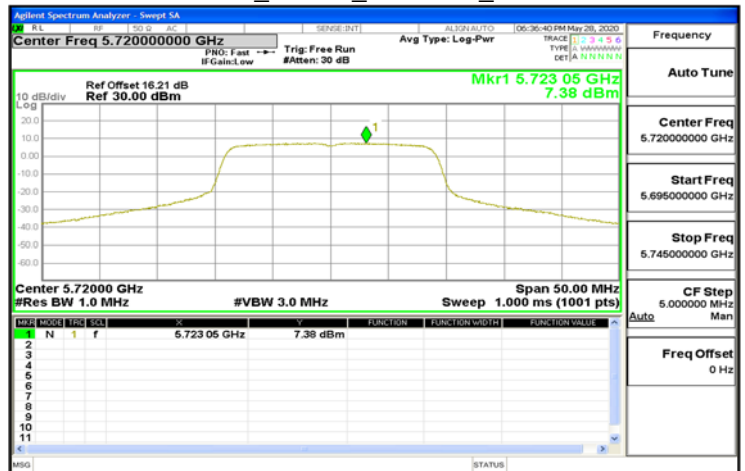
802.11n\_20MHz\_5700MHz-5700



802.11n\_20MHz\_5500MHz-5500



802.11n\_20MHz\_5720MHz\_UNII 2C

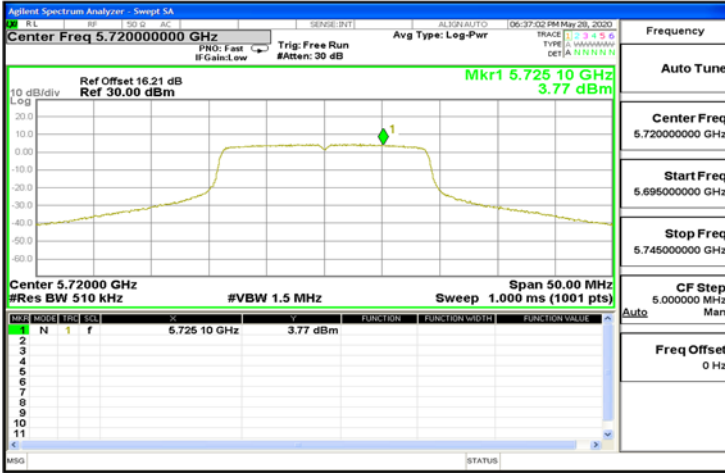


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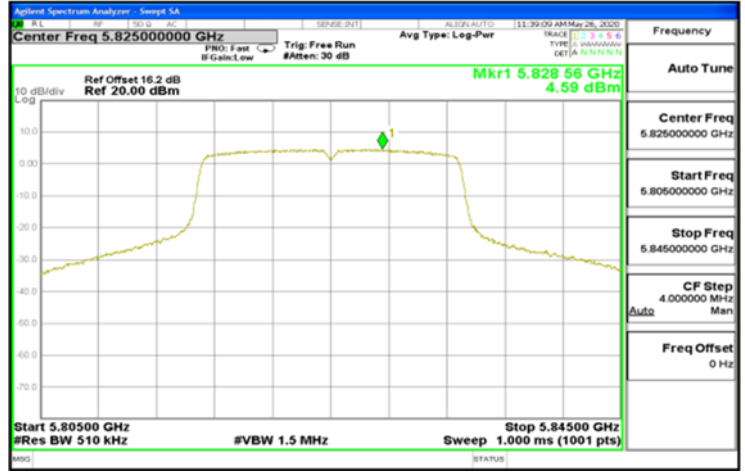
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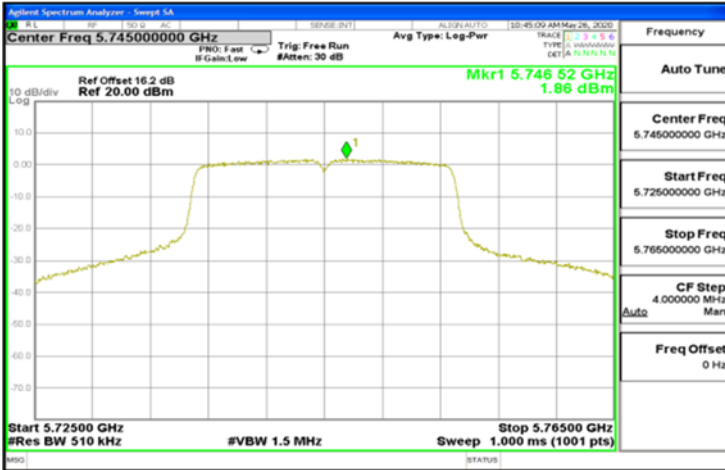
802.11n\_20MHz\_5720MHz\_UNII 3



802.11n\_20MHz\_5825MHz-5825



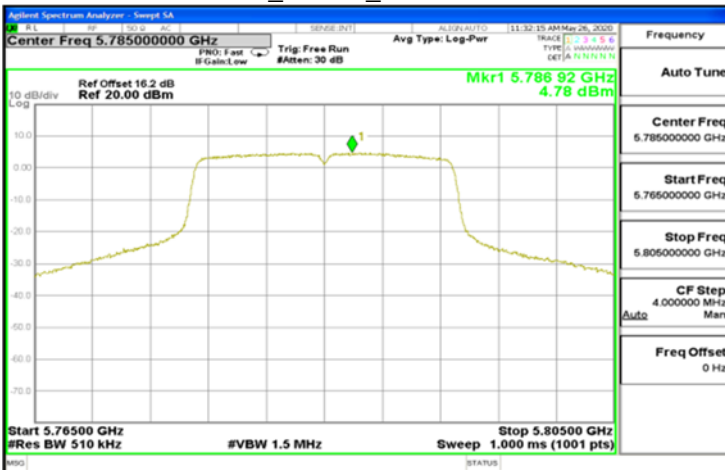
802.11n\_20MHz\_5745MHz-5745



802.11ax\_20MHz\_5180MHz-106-53



802.11n\_20MHz\_5785MHz-5785



802.11ax\_20MHz\_5180MHz-26-0

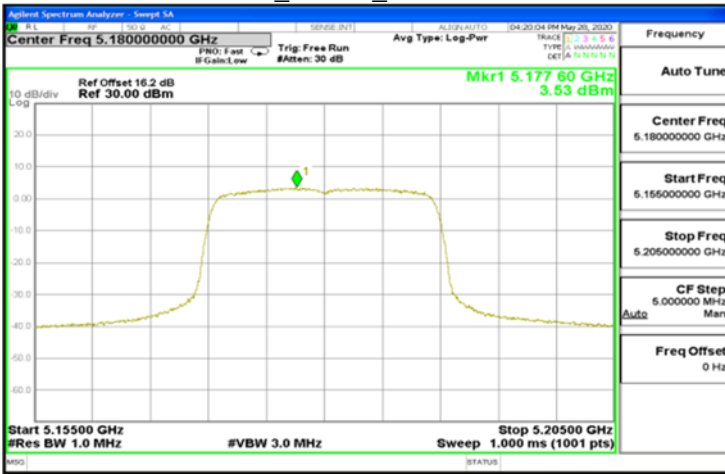


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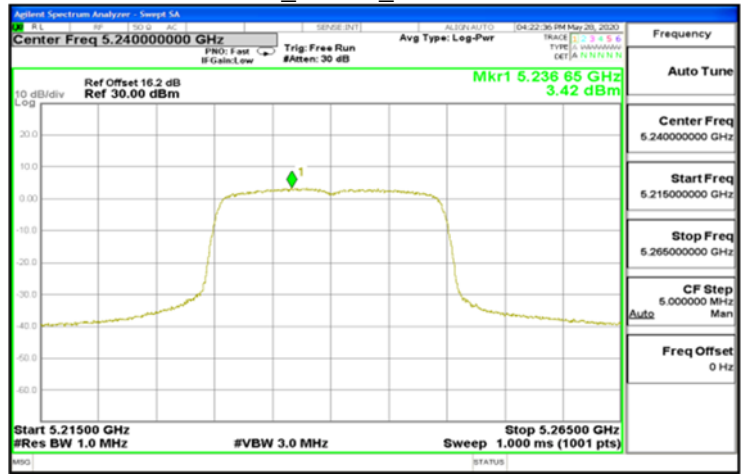
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802.11ax\_20MHz\_5180MHz-5180



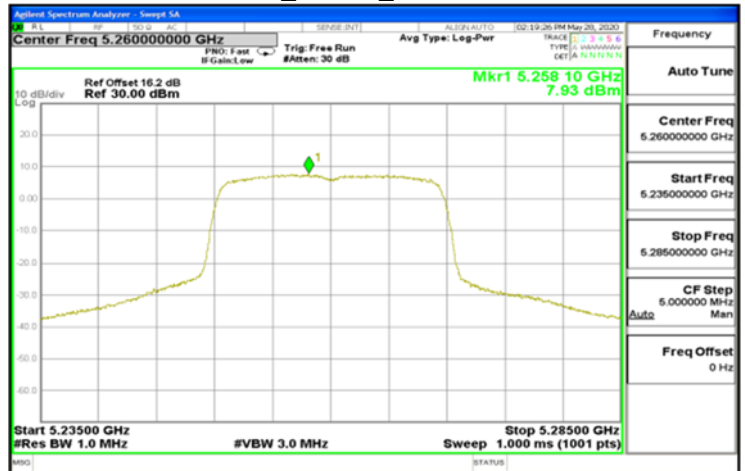
802.11ax\_20MHz\_5240MHz-5240



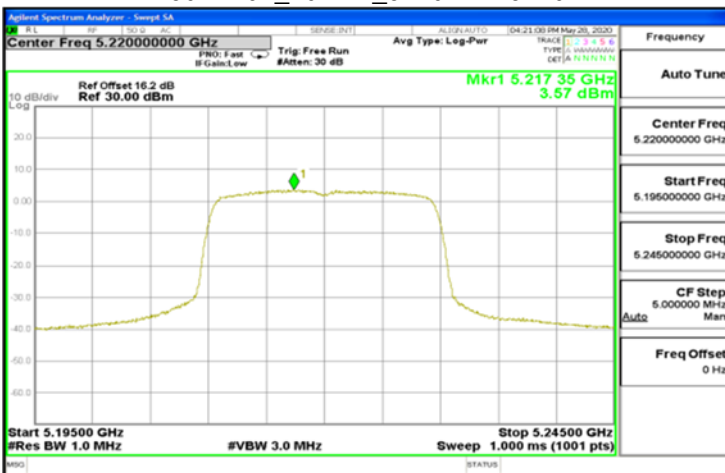
802.11ax\_20MHz\_5180MHz-52-37



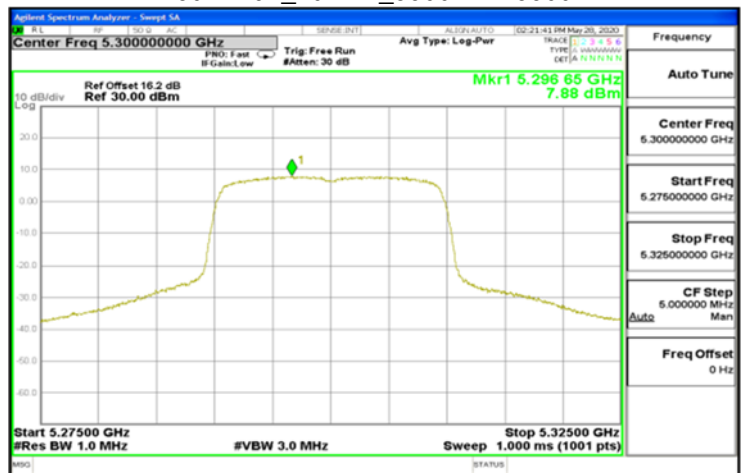
802.11ax\_20MHz\_5260MHz-5260



802.11ax\_20MHz\_5220MHz-5220



802.11ax\_20MHz\_5300MHz-5300

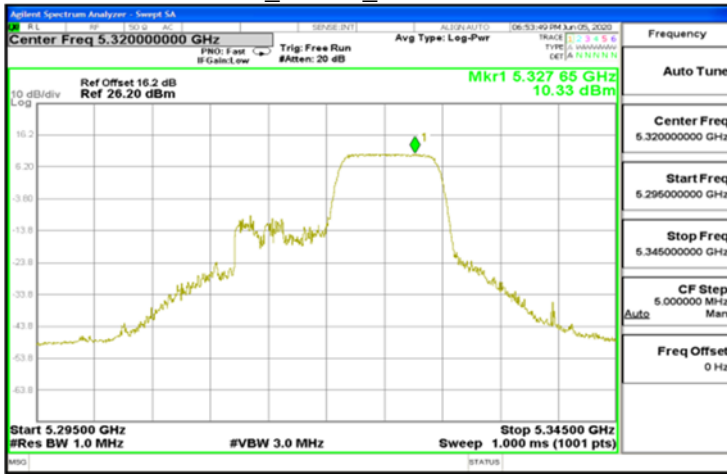


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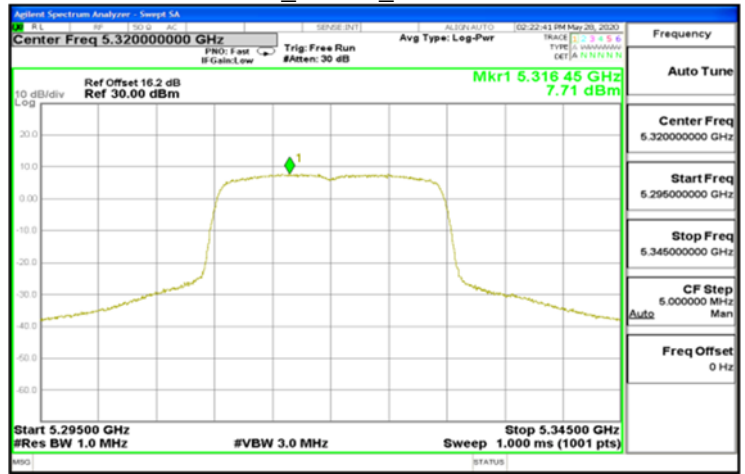
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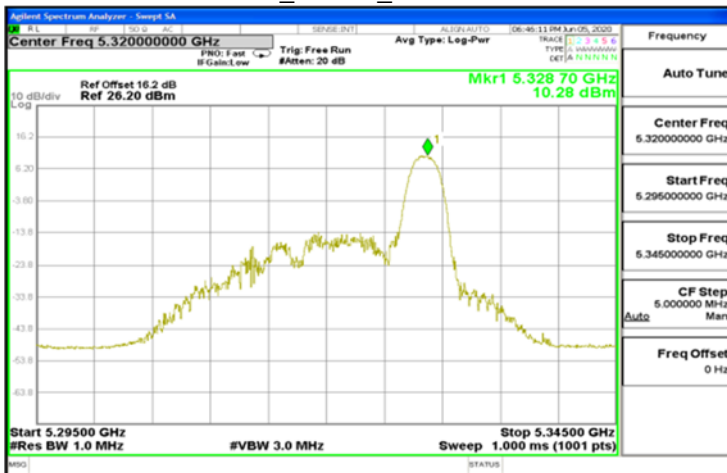
802.11ax\_20MHz\_5320MHz-106-54



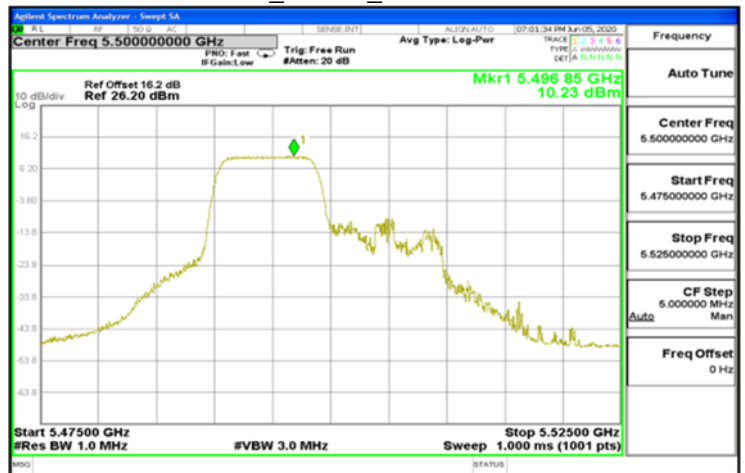
802.11ax\_20MHz\_5320MHz-5320



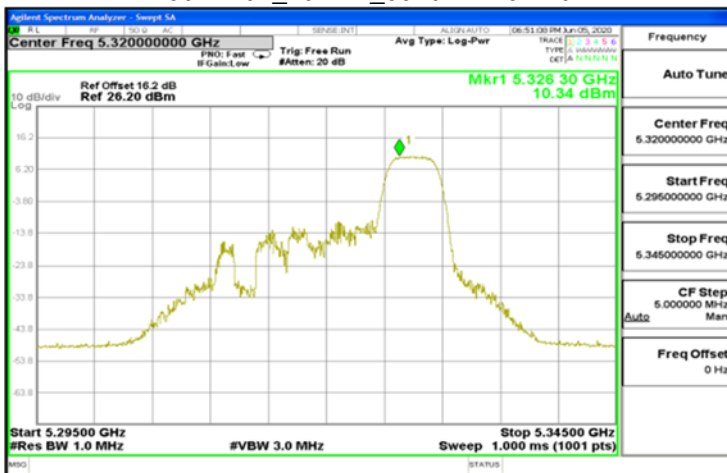
802.11ax\_20MHz\_5320MHz-26-8



802.11ax\_20MHz\_5500MHz-106-53



802.11ax\_20MHz\_5320MHz-52-40



802.11ax\_20MHz\_5500MHz-26-0



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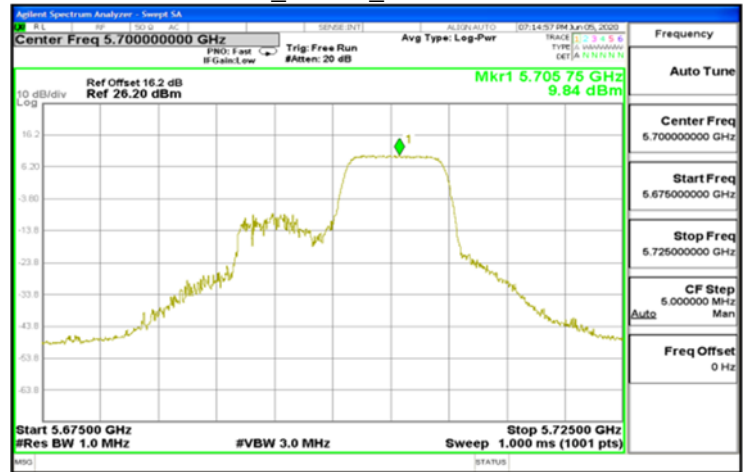
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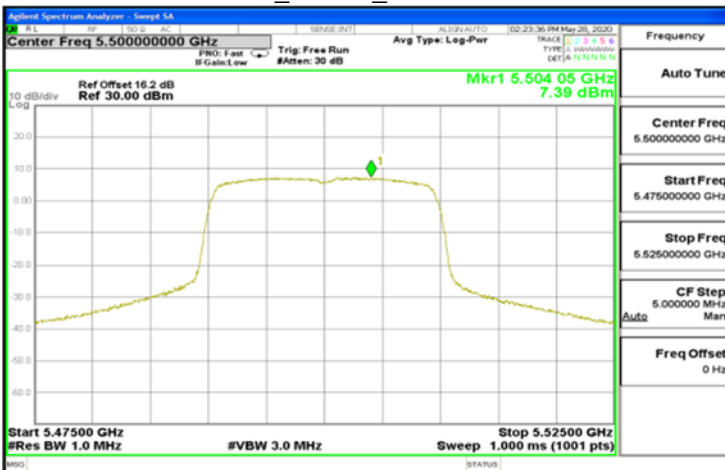
802.11ax\_20MHz\_5500MHz-52-37



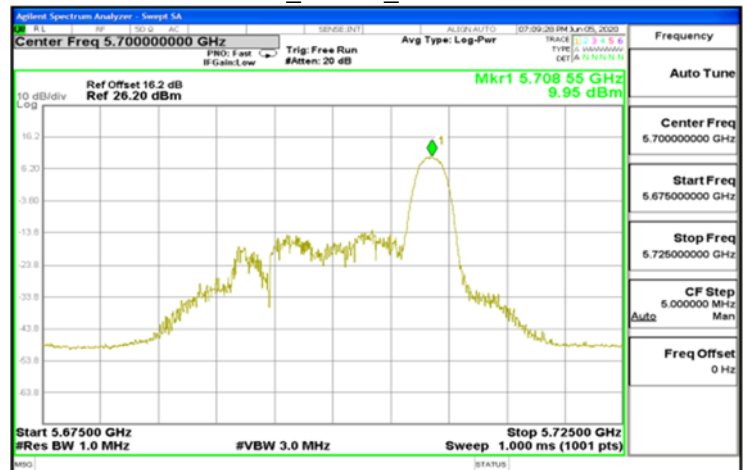
802.11ax\_20MHz\_5700MHz-106-54



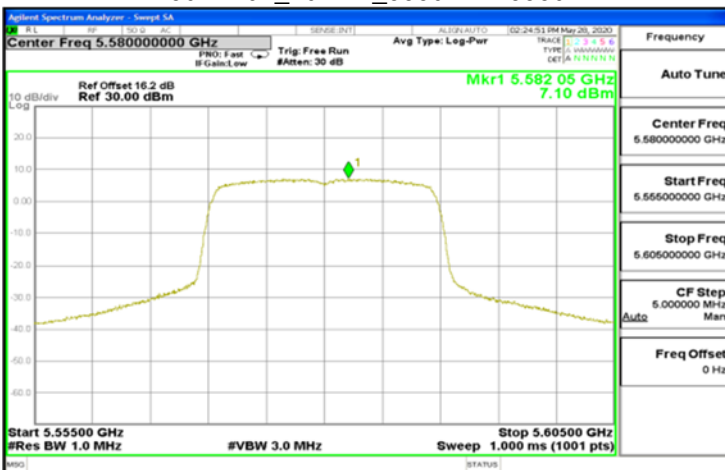
802.11ax\_20MHz\_5500MHz-5500



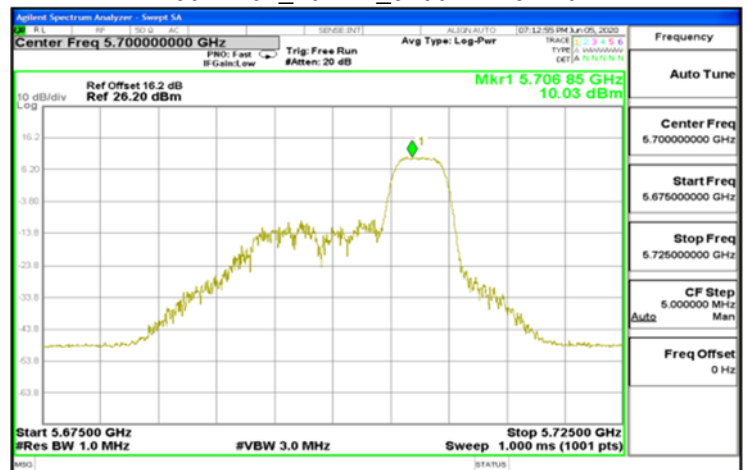
802.11ax\_20MHz\_5700MHz-26-8



802.11ax\_20MHz\_5580MHz-5580



802.11ax\_20MHz\_5700MHz-52-40

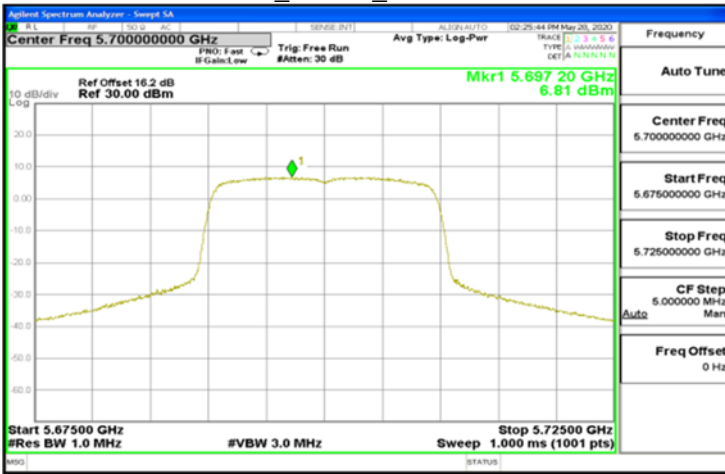


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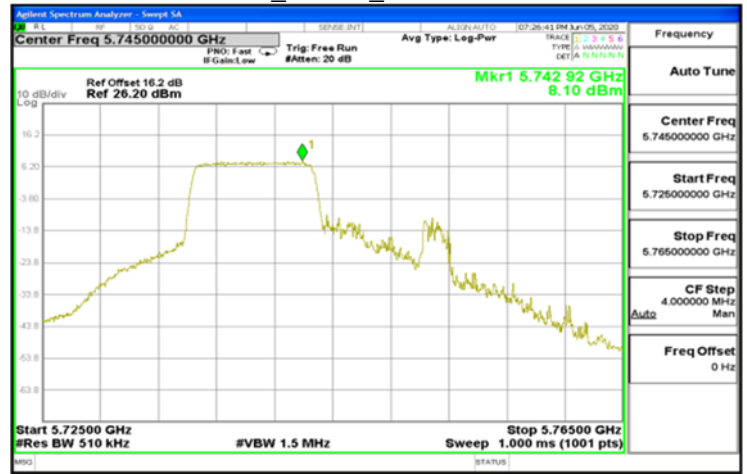
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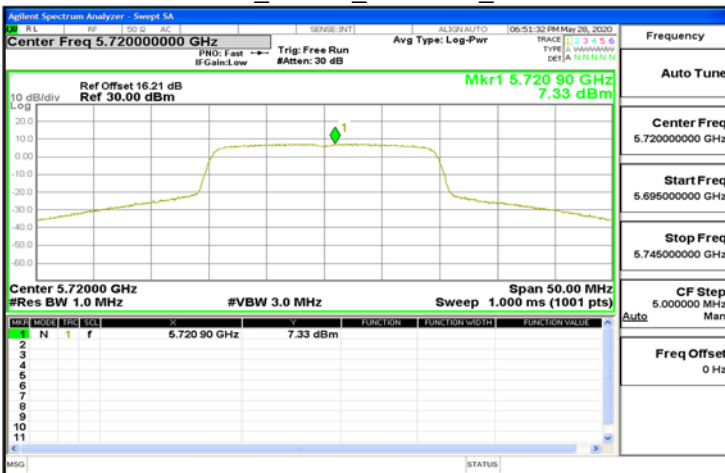
802.11ax\_20MHz\_5700MHz-5700



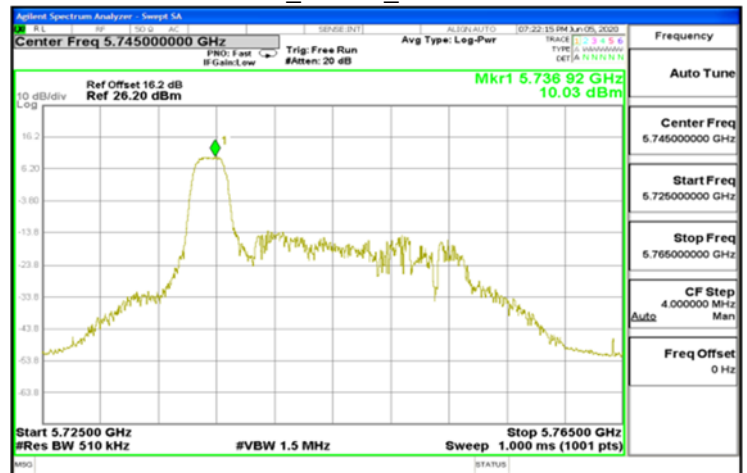
802.11ax\_20MHz\_5745MHz-106-53



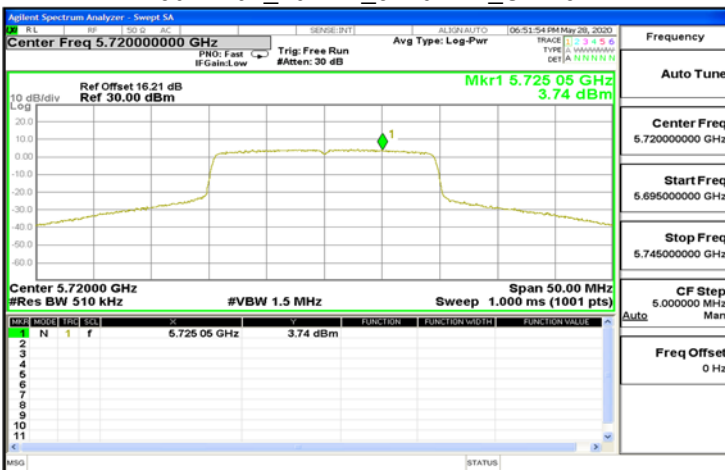
802.11ax\_20MHz\_5720MHz\_UNII 2C



802.11ax\_20MHz\_5745MHz-26-0



802.11ax\_20MHz\_5720MHz\_UNII 3



802.11ax\_20MHz\_5745MHz-52-37

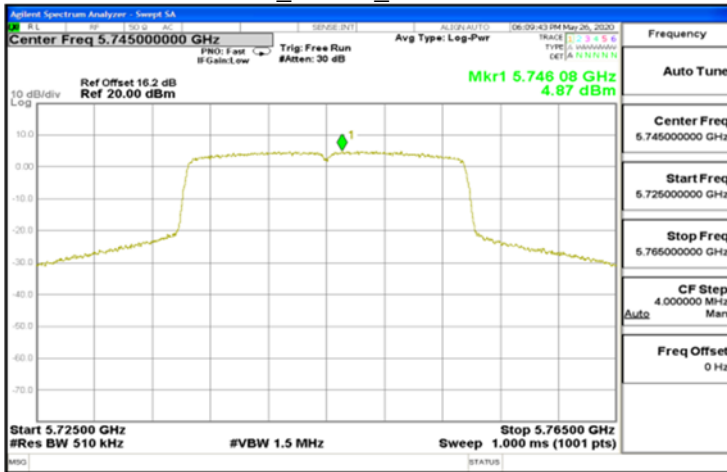


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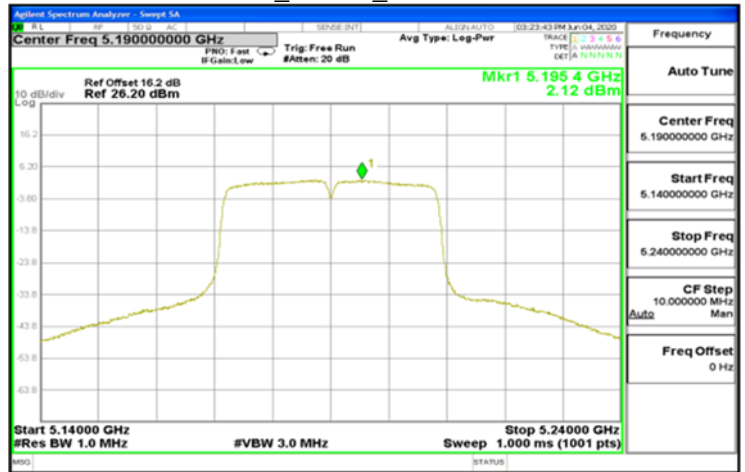
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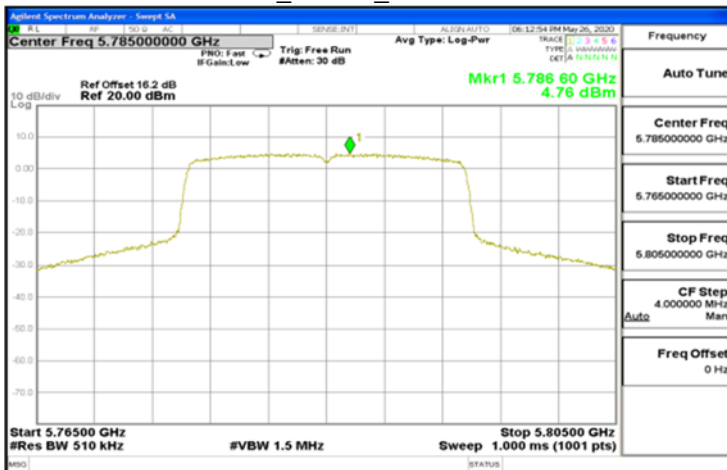
802.11ax\_20MHz\_5745MHz-5745



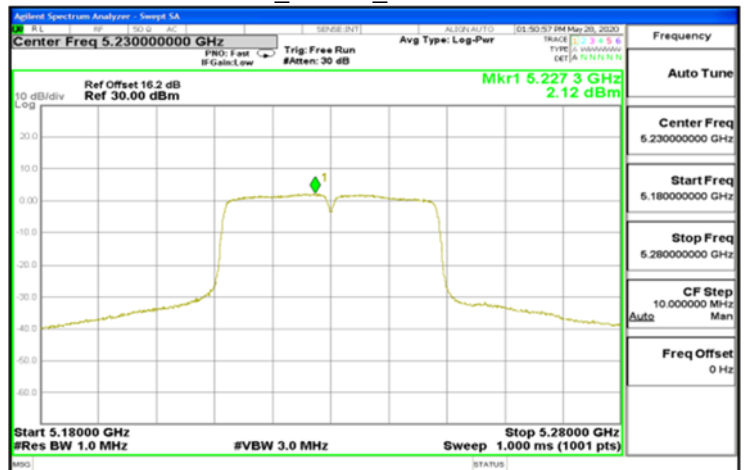
802.11n\_40MHz\_5190MHz-5190



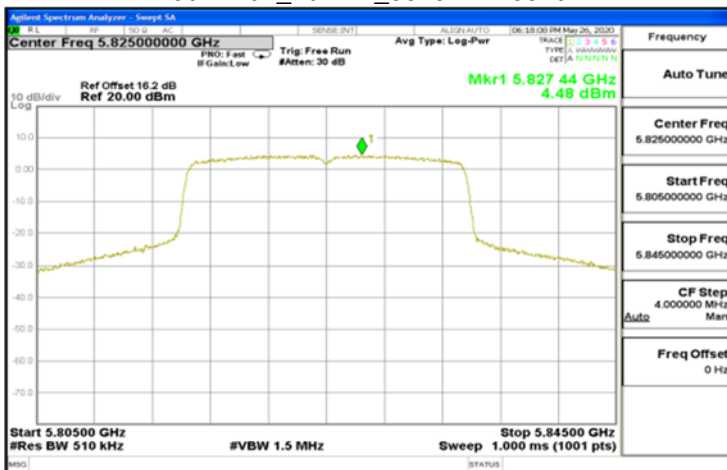
802.11ax\_20MHz\_5785MHz-5785



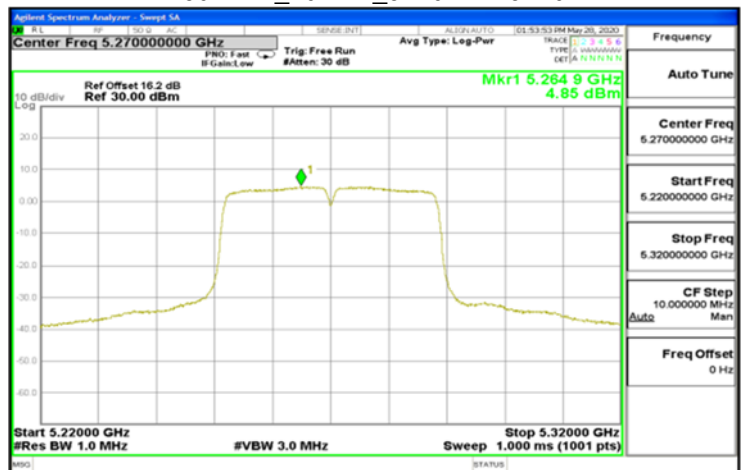
802.11n\_40MHz\_5230MHz-5230



802.11ax\_20MHz\_5825MHz-5825



802.11n\_40MHz\_5270MHz-5270



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