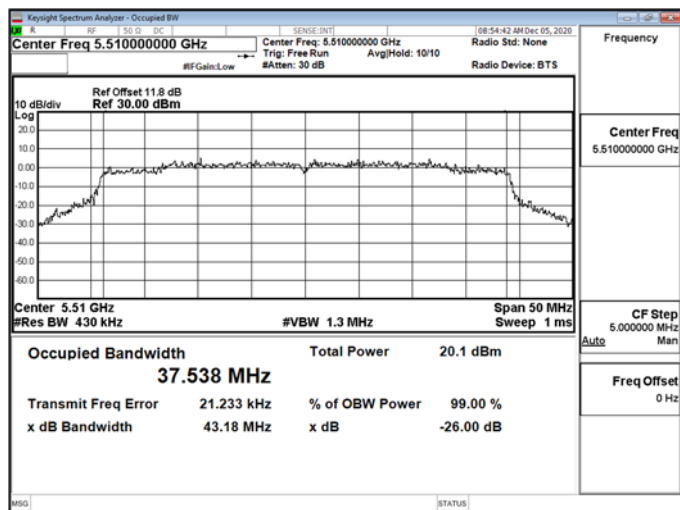
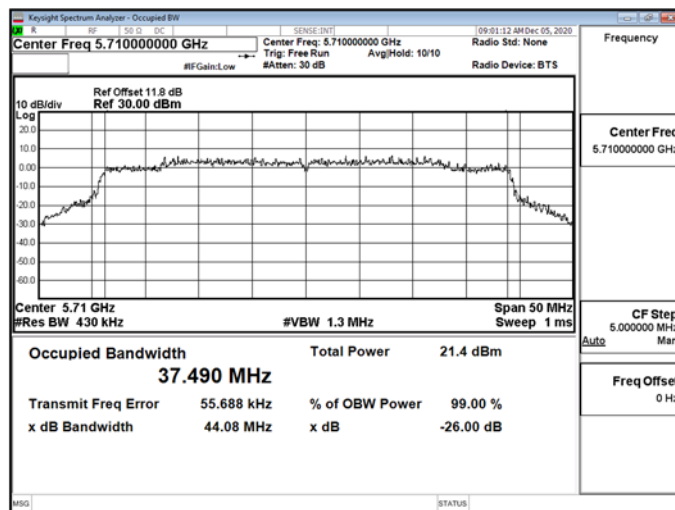


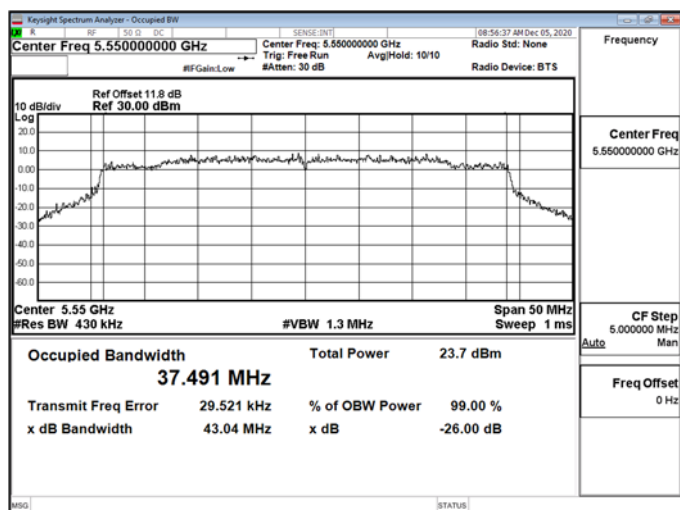
802.11ax_40MHz_Chain1_5510MHz



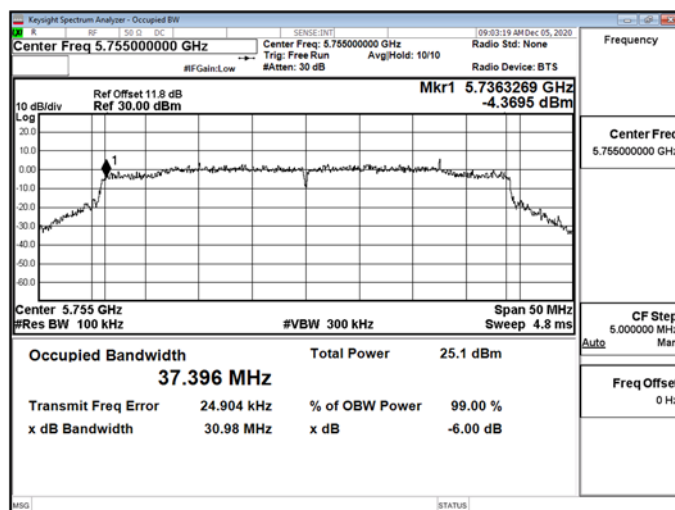
802.11ax_40MHz_Chain1_5710MHz



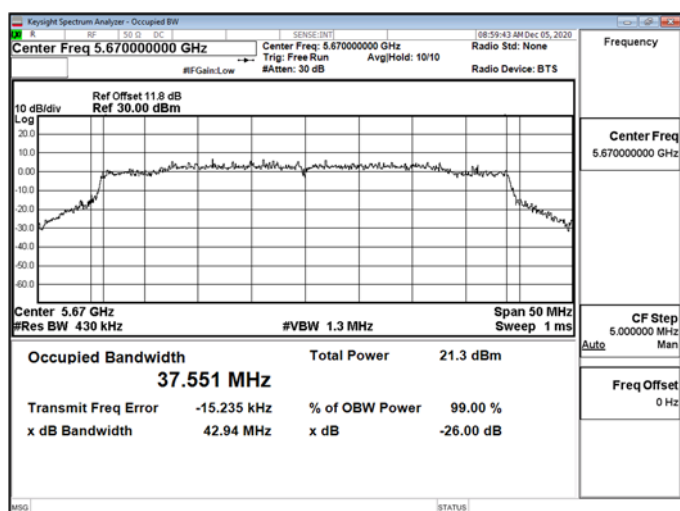
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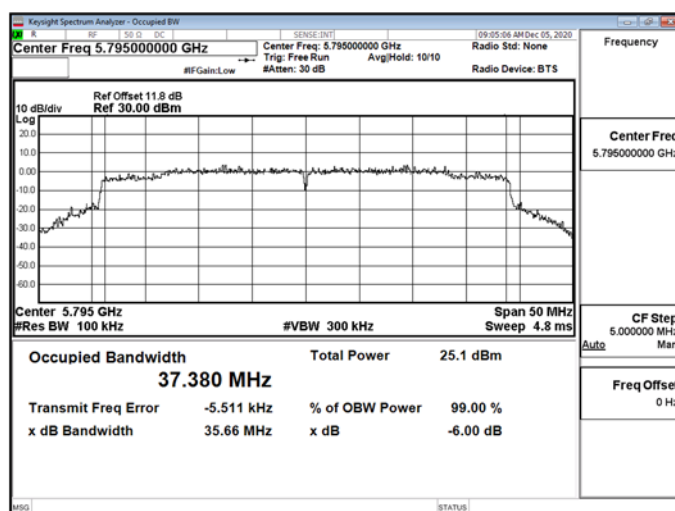
802.11ax_40MHz_Chain1_5755MHz



802.11ax_40MHz_Chain1_5670MHz



802.11ax_40MHz_Chain1_5795MHz

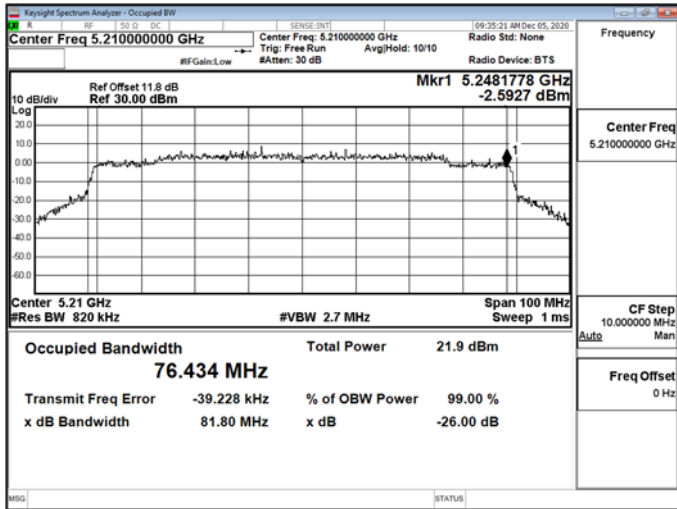


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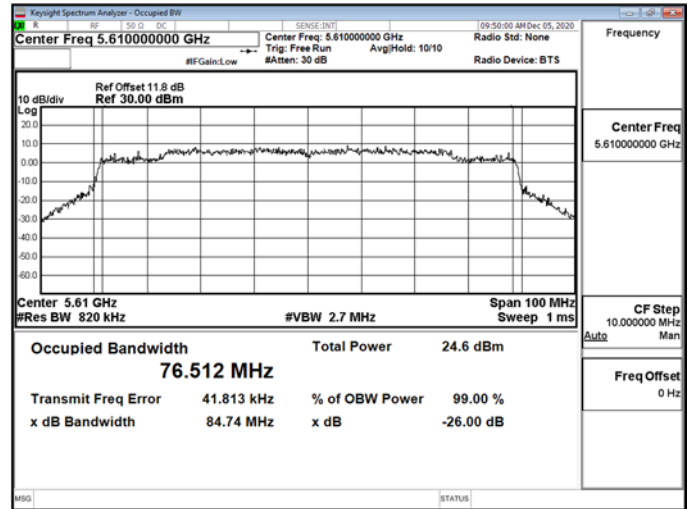
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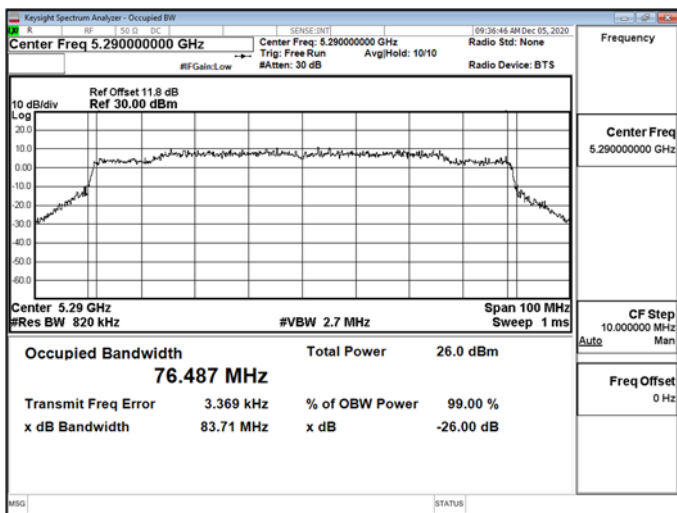
802.11ax_80MHz_Chain0_5210MHz



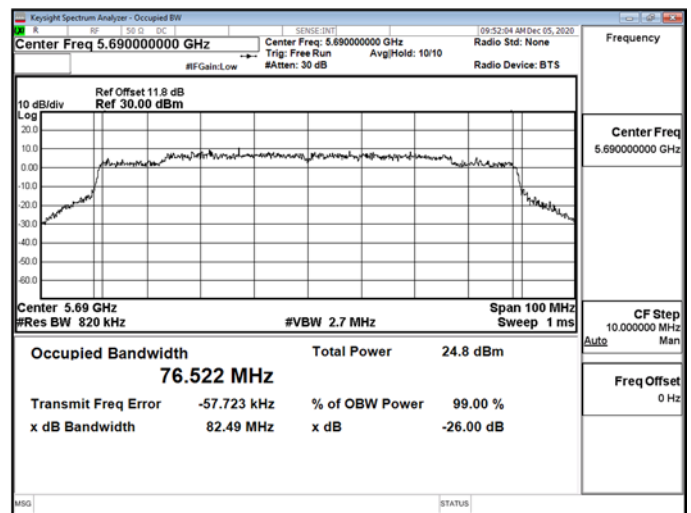
802.11ax_80MHz_Chain0_5610MHz



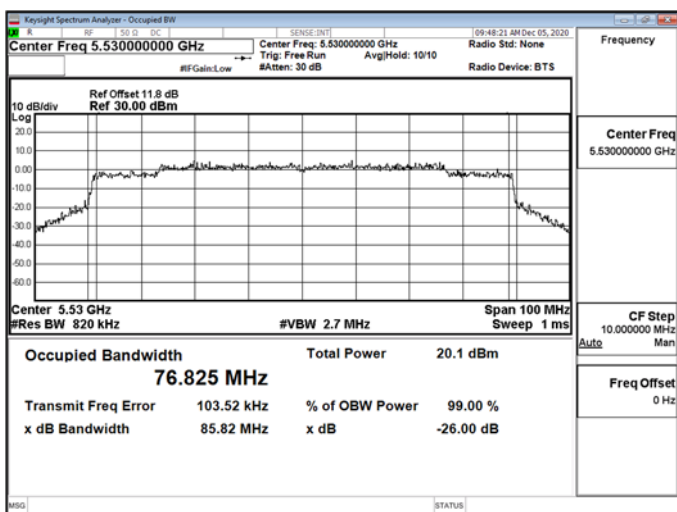
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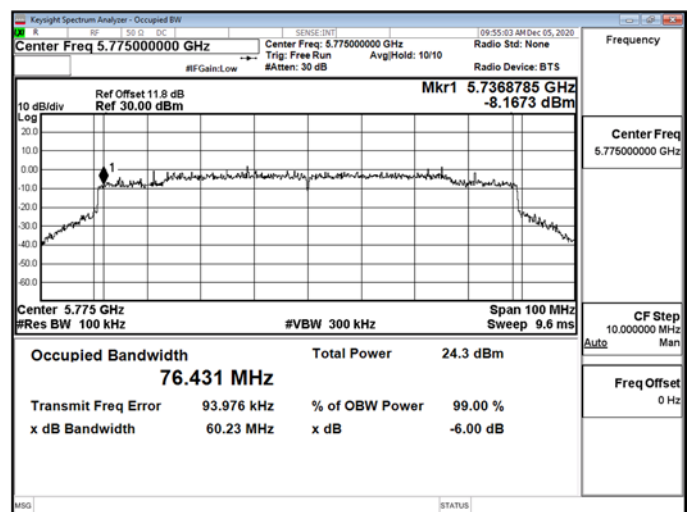
802.11ax_80MHz_Chain0_5690MHz



802.11ax_80MHz_Chain0_5530MHz



802.11ax_80MHz_Chain0_5775MHz

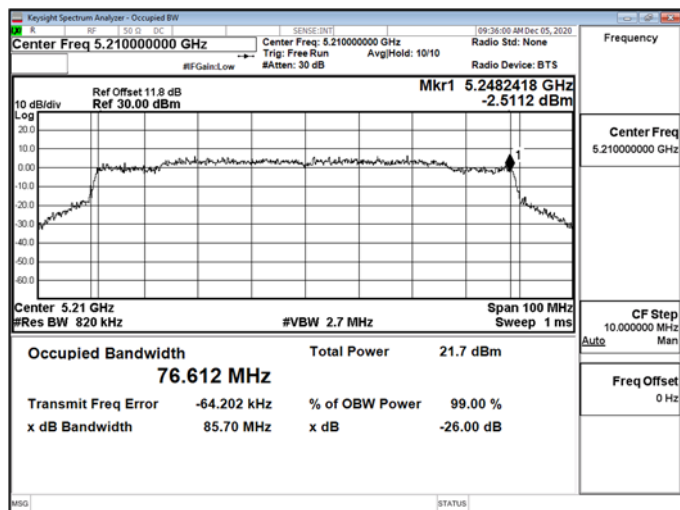


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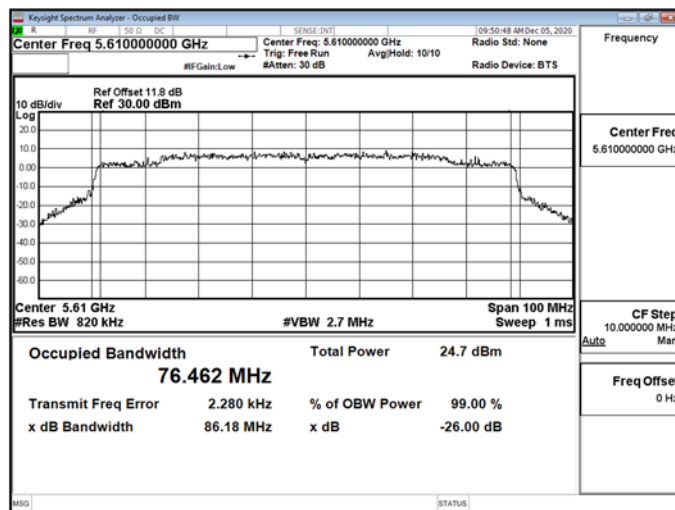
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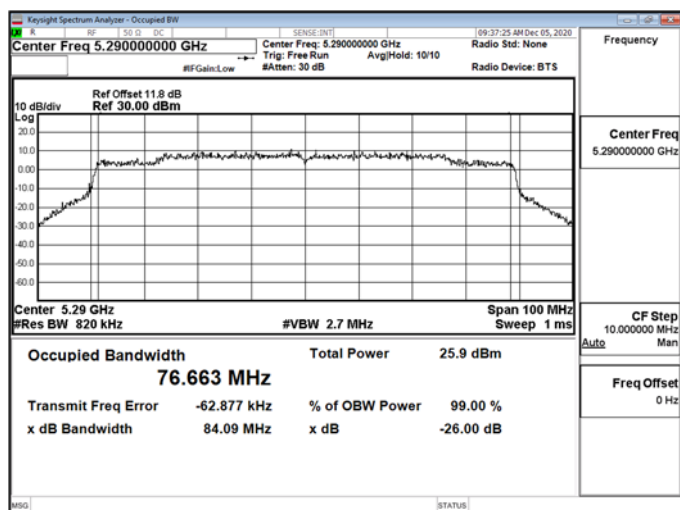
802.11ax_80MHz_Chain1_5210MHz



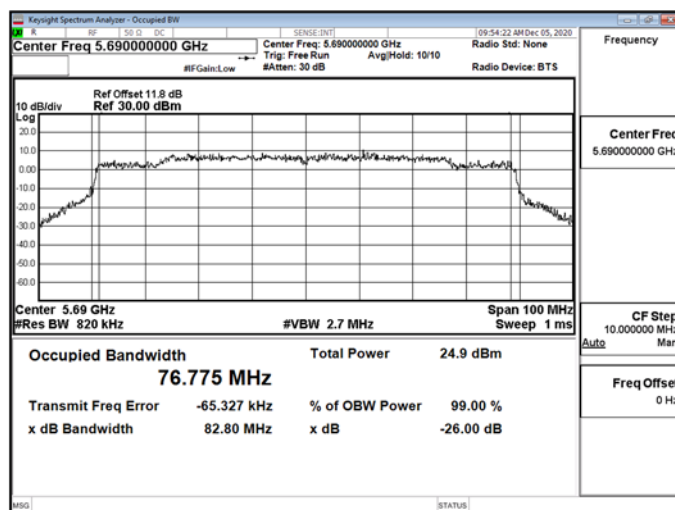
802.11ax_80MHz_Chain1_5610MHz



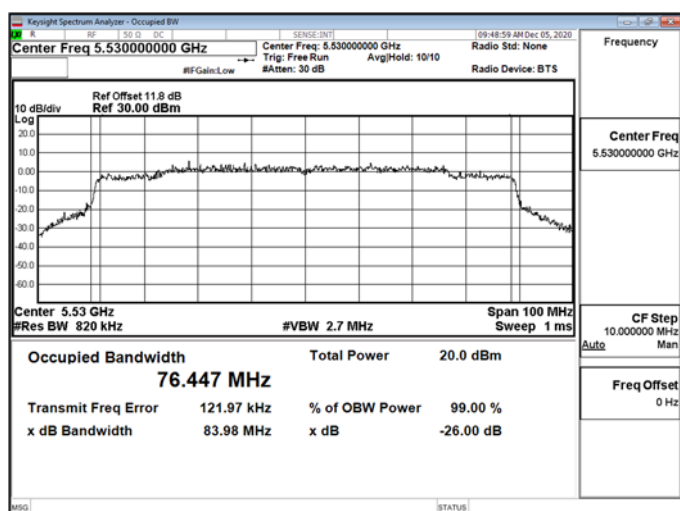
802.11ax_80MHz_Chain1_5290MHz



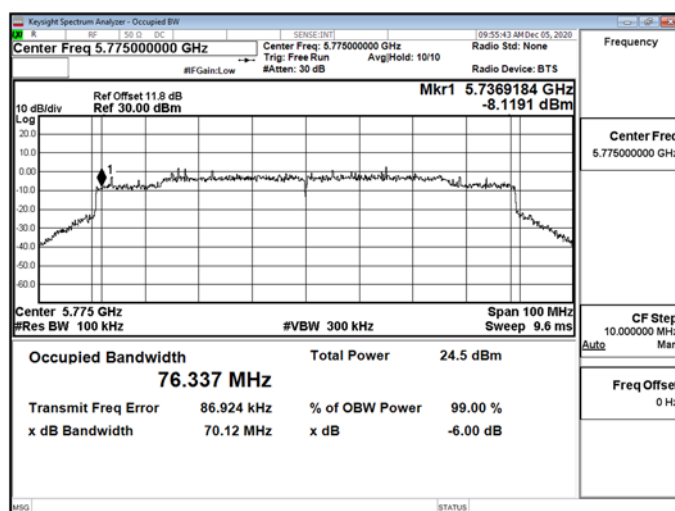
802.11ax_80MHz_Chain1_5690MHz



802.11ax_80MHz_Chain1_5530MHz



802.11ax_80MHz_Chain1_5775MHz

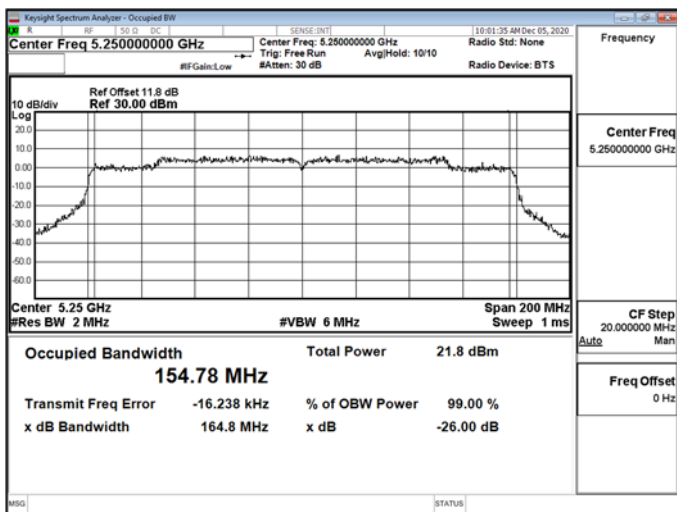


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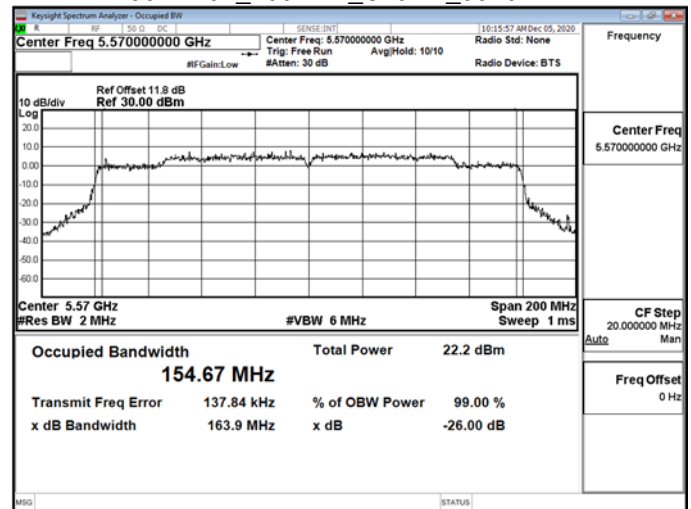
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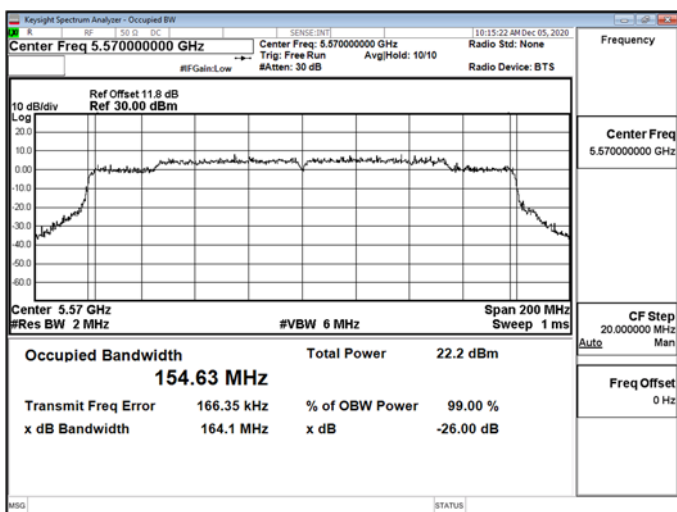
802.11ax_160MHz_Chain0_5250MHz



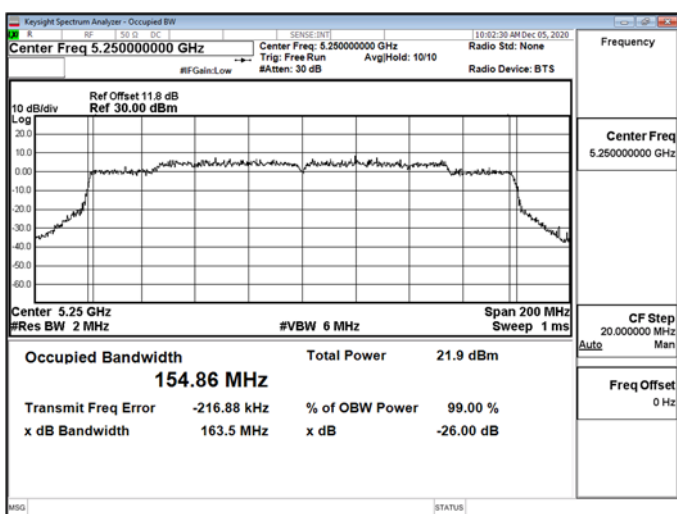
802.11ax_160MHz_Chain1_5570MHz



802.11ax_160MHz_Chain0_5570MHz



802.11ax_160MHz_Chain1_5250MHz



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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.			

Note:

As per section F. 2). d). (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.

(ii) If all transmit signals are *completely uncorrelated*, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

where

N_{ANT} = the total number of antennas

G is the gain in dBi.

Remark:

The device supports with SDM for MIMO (in all modeds) and uncorrelated gains are used for **PSD EIRP MIMO UNII-1** of Canada authorization with **uncorrelated gains**.

The antenna gain is grater than 6 dBi, therefore the limit needs to be reduced as below:

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FCC Power Limit Reduction (Chain 0)

	Effective Legacy Gain (dBi)	Conducted Power Limit (dBm)
UNII-1	6.00	30.00
UNII-2A	6.10	23.88
U-NII-2C	7.00	22.98
U-NII-3	7.00	29.00

FCC Power Limit Reduction (Chain 1)

	Effective Legacy Gain (dBi)	Conducted Power Limit (dBm)
UNII-1	5.30	30.00
UNII-2A	5.00	23.98
U-NII-2C	5.90	23.98
U-NII-3	5.90	30.00

FCC Power Limit Reduction (MIMO)

	Effective Legacy Gain (dBi)	Conducted Power Limit (dBm)
UNII-1	5.66	30.00
UNII-2A	5.58	23.98
U-NII-2C	6.48	23.50
U-NII-3	6.48	29.52

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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 $10 \log(1/\text{duty cycle})$.
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

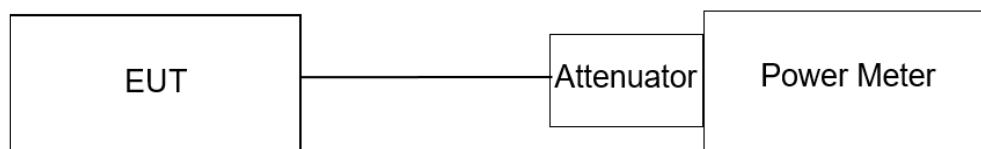
9.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Power Meter	Anritsu	ML2496A	1804002	04/06/2020	04/05/2021
Power Sensor	Anritsu	MA2411B	1726105	04/06/2020	04/05/2021
Power Sensor	Anritsu	MA2411B	1726106	04/06/2020	04/05/2021
Attenuator	Marvelous	MVE2213-10	RF80	11/20/2019	11/19/2020
IPEX-4 Cable	Woken	00100A1H646027	N/A	N/A	N/A

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown below indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Attenuator	Marvelous	MVE2213-10	RF80	11/19/2020	11/18/2021

9.4 Test Set-up



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9.5 Measurement Result

9.5.1 Conducted output power (FCC)

Mode: Chain 0

802.11a_Ch0							
CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
36	5180	6	17.95	62.411	23.98		PASS
44	5220	6	18.71	74.346	23.98		PASS
48	5240	6	18.74	74.862	23.98		PASS
52	5260	6	18.48	70.512	23.88	or 11+10log(B) = 24.48	PASS
60	5300	6	18.44	69.865	23.88	or 11+10log(B) = 24.38	PASS
64	5320	6	13.99	25.076	23.88	or 11+10log(B) = 24.46	PASS
100	5500	6	17.49	56.138	22.98	or 11+10log(B) = 24.51	PASS
116	5580	6	18.91	77.850	22.98	or 11+10log(B) = 24.59	PASS
140	5700	6	16.99	50.033	22.98	or 11+10log(B) = 24.51	PASS
144	5720(U-NII 2C)	6	17.55	56.89	22.98	or 11+10log(B) = 24.62	PASS
144	5720 (U-NII 3)	6	13.50	22.40	29		PASS
149	5745	6	18.91	77.850	29		PASS
157	5785	6	18.96	78.752	29		PASS
165	5825	6	18.98	79.115	29		PASS

802.11n_HT20_Ch0							
CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
36	5180	HT0	17.97	62.669	23.98		PASS
44	5220	HT0	18.71	74.310	23.98		PASS
48	5240	HT0	18.73	74.653	23.98		PASS
52	5260	HT0	18.46	70.154	23.88	or 11+10log(B) = 24.59	PASS
60	5300	HT0	18.48	70.477	23.88	or 11+10log(B) = 24.62	PASS
64	5320	HT0	17.88	61.383	23.88	or 11+10log(B) = 24.61	PASS
100	5500	HT0	16.97	49.779	22.98	or 11+10log(B) = 24.67	PASS
116	5580	HT0	18.94	78.352	22.98	or 11+10log(B) = 24.71	PASS
140	5700	HT0	16.94	49.437	22.98	or 11+10log(B) = 24.71	PASS
144	5720(U-NII 2C)	HT0	17.47	55.87	22.98	or 11+10log(B) = 24.57	PASS
144	5720 (U-NII 3)	HT0	13.38	21.76	29		PASS
149	5745	HT0	18.93	78.172	29		PASS
157	5785	HT0	18.96	78.714	29		PASS
165	5825	HT0	18.88	77.277	29		PASS

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802.11n_HT40_Ch0								
CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
38	5190	HT0	15.48	35.337	23.98			PASS
46	5230	HT0	18.74	74.855	23.98			PASS
54	5270	HT0	18.35	68.426	23.88	or 11+10log(B) =	27.25	PASS
62	5310	HT0	15.36	34.373	23.88	or 11+10log(B) =	27.24	PASS
102	5510	HT0	15.49	35.418	22.98	or 11+10log(B) =	27.23	PASS
110	5550	HT0	18.83	76.423	22.98	or 11+10log(B) =	27.29	PASS
134	5670	HT0	16.47	44.384	22.98	or 11+10log(B) =	27.20	PASS
142	5710(U-NII 2C)	HT0	18.29	67.46	22.98	or 11+10log(B) =	27.19	PASS
142	5710 (U-NII 3)	HT0	10.38	10.92	23.98			PASS
151	5755	HT0	18.96	78.745	23.98			PASS
159	5795	HT0	18.89	77.486	29			PASS

802.11ac_VHT80_Ch0								
CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
42	5210	VHT0	15.87	38.669	23.98			PASS
58	5290	VHT0	14.93	31.143	23.88	or 11+10log(B) =	30.19	PASS
106	5530	VHT0	13.97	24.967	22.98	or 11+10log(B) =	30.21	PASS
122	5610	VHT0	17.44	55.509	22.98	or 11+10log(B) =	30.15	PASS
138	5690(U-NII 2C)	VHT0	18.60	72.49	22.98	or 11+10log(B) =	30.18	PASS
138	5690 (U-NII 3)	VHT0	7.85	6.10	23.98			PASS
155	5775	VHT0	17.42	55.254	23.98			PASS

802.11ac_VHT160_Ch0								
CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
50	5250	VHT0	12.42	17.439	23.98	or 11+10log(B) =	33.12	PASS
114	5570	VHT0	13.41	21.904	23.98	or 11+10log(B) =	33.12	PASS

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802.11ax 20 Ch0									
CH	Frequency (MHz)	RU Config	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
36	5180	full	MCS0	17.92	62.000	23.98			PASS
		26/0	MCS0	12.87	19.382	23.98			PASS
		52/37	MCS0	14.99	31.579	23.98			PASS
		106/53	MCS0	11.48	14.073	23.98			PASS
44	5220	full	MCS0	18.48	70.533	23.98			PASS
48	5240	full	MCS0	18.69	74.027	23.98			PASS
52	5260	full	MCS0	18.47	70.371	23.88	or 11+10log(B) =	24.45	PASS
60	5300	full	MCS0	18.88	77.338	23.88	or 11+10log(B) =	24.50	PASS
64	5320	full	MCS0	16.49	44.606	23.88	or 11+10log(B) =	24.48	PASS
		26/8	MCS0	12.87	19.382	23.88	or 11+10log(B) =	24.48	PASS
		52/40	MCS0	14.97	31.433	23.88	or 11+10log(B) =	24.48	PASS
		106/54	MCS0	15.46	35.188	23.88	or 11+10log(B) =	24.48	PASS
100	5500	full	MCS0	17.42	55.258	22.98	or 11+10log(B) =	24.67	PASS
		26/0	MCS0	11.45	13.976	22.98	or 11+10log(B) =	24.67	PASS
		52/37	MCS0	13.92	24.683	22.98	or 11+10log(B) =	24.67	PASS
		106/53	MCS0	16.87	48.685	22.98	or 11+10log(B) =	24.67	PASS
116	5580	full	MCS0	18.93	78.233	22.98	or 11+10log(B) =	24.53	PASS
140	5700	full	MCS0	15.93	39.210	22.98	or 11+10log(B) =	24.41	PASS
		26/8	MCS0	11.40	13.816	22.98	or 11+10log(B) =	24.41	PASS
		52/40	MCS0	11.49	14.106	22.98	or 11+10log(B) =	24.41	PASS
		106/54	MCS0	16.91	49.135	22.98	or 11+10log(B) =	24.41	PASS
144	5720(U-NII 2C)	full	MCS0	17.55	56.82	22.98	or 11+10log(B) =	24.44	PASS
144	5720 (U-NII 3)	full	MCS0	13.31	21.41	29			PASS
149	5745	full	MCS0	17.92	62.000	29			PASS
		26/0	MCS0	17.99	63.007	29			PASS
		52/37	MCS0	17.93	62.143	29			PASS
		106/53	MCS0	17.98	62.863	29			PASS
157	5785	full	MCS0	18.93	78.233	29			PASS
165	5825	full	MCS0	18.92	78.053	29			PASS

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802.11ax_40_Ch0									
CH	Frequency (MHz)	RU Config	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
38	5190	full	MCS0	15.45	35.089	23.98			PASS
		242/61	MCS0	14.46	27.937	23.98			PASS
46	5230	full	MCS0	18.69	73.991	23.98			PASS
54	5270	full	MCS0	18.42	69.531	23.88	or 11+10log(B) =	27.15	PASS
62	5310	full	MCS0	15.43	34.928	23.88	or 11+10log(B) =	27.24	PASS
		242/62	MCS0	18.48	70.498	23.88	or 11+10log(B) =	27.24	PASS
102	5510	full	MCS0	14.43	27.745	22.98	or 11+10log(B) =	27.12	PASS
		242/61	MCS0	11.86	15.352	22.98	or 11+10log(B) =	27.12	PASS
110	5550	full	MCS0	18.89	77.478	22.98	or 11+10log(B) =	27.09	PASS
134	5670	full	MCS0	16.44	44.073	22.98	or 11+10log(B) =	47.09	PASS
		242/62	MCS0	18.94	78.375	22.98	or 11+10log(B) =	47.09	PASS
142	5710(U-NII 2C)	full	MCS0	18.21	66.22	22.98	or 11+10log(B) =	27.14	PASS
142	5710 (U-NII 3)	full	MCS0	10.16	10.37	23.98			PASS
151	5755	full	MCS0	18.95	78.556	23.98			PASS
		242/61	MCS0	18.94	78.375	23.98			PASS
159	5795	full	MCS0	18.95	78.556	29			PASS
802.11ax_80_Ch0									
CH	Frequency (MHz)	RU Config	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
42	5210	full	MCS0	14.39	27.476	23.98			PASS
		484/65	MCS0	15.40	34.670	23.98			PASS
58	5290	full	MCS0	14.88	30.758	23.88	or 11+10log(B) =	30.12	PASS
		484/66	MCS0	16.42	43.849	23.88	or 11+10log(B) =	30.12	PASS
106	5530	full	MCS0	14.43	27.731	22.98	or 11+10log(B) =	30.13	PASS
		484/65	MCS0	9.91	9.794	22.98	or 11+10log(B) =	30.13	PASS
122	5610	full	MCS0	17.44	55.457	22.98	or 11+10log(B) =	30.09	PASS
138	5690(U-NII 2C)	full	MCS0	17.02	50.32	22.98	or 11+10log(B) =	30.14	PASS
138	5690 (U-NII 3)	full	MCS0	6.02	4.00	23.98			PASS
155	5775	full	MCS0	17.44	55.457	23.98			PASS
		484/66	MCS0	17.97	62.655	23.98			PASS
802.11ax_160_Ch0									
CH	Frequency (MHz)	RU Config	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
50	5250	full	MCS0	10.38	10.913	23.98	or 11+10log(B) =	33.15	PASS
		996/67	MCS0	10.98	12.530	23.98	or 11+10log(B) =	33.15	PASS
		996/s67	MCS0	10.87	12.217	23.98	or 11+10log(B) =	33.15	PASS
114	5570	full	MCS0	11.45	13.962	23.98	or 11+10log(B) =	33.15	PASS
		996/67	MCS0	8.77	7.533	23.98	or 11+10log(B) =	33.15	PASS
		996/s67	MCS0	8.96	7.870	23.98	or 11+10log(B) =	33.15	PASS

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Mode: Chain 1

802.11a_Ch1								
CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
36	5180	6	17.10	51.316	23.98			PASS
44	5220	6	17.07	50.963	23.98			PASS
48	5240	6	17.16	52.030	23.98			PASS
52	5260	6	17.20	52.511	23.98	or 11+10log(B) =	24.45	PASS
60	5300	6	17.24	52.997	23.98	or 11+10log(B) =	24.54	PASS
64	5320	6	17.19	52.390	23.98	or 11+10log(B) =	24.43	PASS
100	5500	6	16.91	49.119	23.98	or 11+10log(B) =	24.59	PASS
116	5580	6	16.89	48.894	23.98	or 11+10log(B) =	24.50	PASS
140	5700	6	16.98	49.917	23.98	or 11+10log(B) =	24.45	PASS
144	5720(U-NII 2C)	6	15.55	35.90	23.98	or 11+10log(B) =	24.55	PASS
144	5720 (U-NII 3)	6	11.43	13.91	30			PASS
149	5745	6	18.70	74.174	30			PASS
157	5785	6	18.73	74.688	30			PASS
165	5825	6	18.57	71.871	30			PASS
802.11n_HT20_Ch1								
CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
36	5180	HT0	17.08	51.056	23.98			PASS
44	5220	HT0	17.02	50.356	23.98			PASS
48	5240	HT0	17.06	50.822	23.98			PASS
52	5260	HT0	17.18	52.246	23.98	or 11+10log(B) =	24.61	PASS
60	5300	HT0	17.23	52.851	23.98	or 11+10log(B) =	24.64	PASS
64	5320	HT0	17.24	52.972	23.98	or 11+10log(B) =	24.52	PASS
100	5500	HT0	16.97	49.779	23.98	or 11+10log(B) =	24.62	PASS
116	5580	HT0	16.84	48.311	23.98	or 11+10log(B) =	24.58	PASS
140	5700	HT0	16.96	49.665	23.98	or 11+10log(B) =	24.60	PASS
144	5720(U-NII 2C)	HT0	15.50	35.50	23.98	or 11+10log(B) =	24.64	PASS
144	5720 (U-NII 3)	HT0	11.48	14.05	30			PASS
149	5745	HT0	18.61	72.619	30			PASS
157	5785	HT0	18.71	74.310	30			PASS
165	5825	HT0	18.69	73.969	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	HT0	15.47	35.255	23.98			PASS
46	5230	HT0	17.15	51.907	23.98			PASS
54	5270	HT0	17.13	51.668	23.98	or 11+10log(B) =	27.17	PASS
62	5310	HT0	15.46	35.174	23.98	or 11+10log(B) =	27.26	PASS
102	5510	HT0	15.47	35.255	23.98	or 11+10log(B) =	27.28	PASS
110	5550	HT0	16.98	49.914	23.98	or 11+10log(B) =	27.23	PASS
134	5670	HT0	16.84	48.331	23.98	or 11+10log(B) =	27.23	PASS
142	5710(U-NII 2C)	HT0	16.23	41.96	23.98	or 11+10log(B) =	27.20	PASS
142	5710 (U-NII 3)	HT0	8.34	6.82	30			PASS
151	5755	HT0	18.71	74.340	30			PASS
159	5795	HT0	18.68	73.828	30			PASS
802.11ac_VHT80_Ch1								
CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
42	5210	VHT0	15.97	39.570	23.98			PASS
58	5290	VHT0	16.98	49.930	23.98	or 11+10log(B) =	30.21	PASS
106	5530	VHT0	13.94	24.795	23.98	or 11+10log(B) =	30.23	PASS
122	5610	VHT0	16.92	49.245	23.98	or 11+10log(B) =	30.16	PASS
138	5690(U-NII 2C)	VHT0	16.62	45.87	23.98	or 11+10log(B) =	30.18	PASS
138	5690 (U-NII 3)	VHT0	5.83	3.83	30			PASS
155	5775	VHT0	16.98	49.930	30			PASS
802.11ac_VHT160_Ch1								
CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
50	5250	VHT0	12.47	17.641	23.98	or 11+10log(B) =	33.13	PASS
114	5570	VHT0	11.42	13.852	23.98	or 11+10log(B) =	33.11	PASS

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802.11ax 20 Ch1									
CH	Frequency (MHz)	RU Config	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
36	5180	full	MCS0	17.22	52.771	23.98			PASS
		26/0	MCS0	12.96	19.788	23.98			PASS
		52/37	MCS0	14.85	30.577	23.98			PASS
		106/53	MCS0	17.21	52.649	23.98			PASS
44	5220	full	MCS0	17.12	51.569	23.98			PASS
48	5240	full	MCS0	17.23	52.892	23.98			PASS
52	5260	full	MCS0	17.21	52.649	23.98	or 11+10log(B) =	24.43	PASS
60	5300	full	MCS0	17.96	62.574	23.98	or 11+10log(B) =	24.47	PASS
64	5320	full	MCS0	17.22	52.771	23.98	or 11+10log(B) =	24.53	PASS
		26/8	MCS0	12.83	19.204	23.98	or 11+10log(B) =	24.53	PASS
		52/40	MCS0	14.96	31.361	23.98	or 11+10log(B) =	24.53	PASS
		106/54	MCS0	17.04	50.628	23.98	or 11+10log(B) =	24.53	PASS
100	5500	full	MCS0	16.82	48.127	23.98	or 11+10log(B) =	24.52	PASS
		26/8	MCS0	12.48	17.717	23.98	or 11+10log(B) =	24.52	PASS
		52/40	MCS0	14.88	30.789	23.98	or 11+10log(B) =	24.52	PASS
		106/54	MCS0	16.76	47.467	23.98	or 11+10log(B) =	24.52	PASS
116	5580	full	MCS0	16.90	49.022	23.98	or 11+10log(B) =	24.36	PASS
140	5700	full	MCS0	14.90	30.931	23.98	or 11+10log(B) =	24.50	PASS
		26/8	MCS0	11.96	15.718	23.98	or 11+10log(B) =	24.50	PASS
		52/40	MCS0	11.44	13.944	23.98	or 11+10log(B) =	24.50	PASS
		106/54	MCS0	16.96	49.704	23.98	or 11+10log(B) =	24.50	PASS
144	5720(U-NII 2C)	full	MCS0	15.57	36.04	23.98	or 11+10log(B) =	24.37	PASS
144	5720 (U-NII 3)	full	MCS0	11.25	13.32	30			PASS
149	5745	full	MCS0	17.93	62.143	30			PASS
		26/8	MCS0	17.93	62.143	30			PASS
		52/40	MCS0	18.98	79.139	30			PASS
		106/54	MCS0	18.72	74.540	30			PASS
157	5785	full	MCS0	18.62	72.844	30			PASS
165	5825	full	MCS0	18.65	73.349	30			PASS

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802.11ax_40_Ch1									
CH	Frequency (MHz)	RU Config	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
38	5190	full	MCS0	15.42	34.848	23.98			PASS
		242/61	MCS0	17.17	52.141	23.98			PASS
46	5230	full	MCS0	17.22	52.744	23.98			PASS
54	5270	full	MCS0	17.21	52.623	23.98	or 11+10log(B) =	27.17	PASS
62	5310	full	MCS0	14.47	28.001	23.98	or 11+10log(B) =	27.20	PASS
		242/62	MCS0	17.19	52.381	23.98	or 11+10log(B) =	27.20	PASS
102	5510	full	MCS0	15.92	39.100	23.98	or 11+10log(B) =	27.10	PASS
		242/61	MCS0	9.84	9.642	23.98	or 11+10log(B) =	27.10	PASS
110	5550	full	MCS0	17.91	61.827	23.98	or 11+10log(B) =	27.14	PASS
134	5670	full	MCS0	16.41	43.770	23.98	or 11+10log(B) =	27.08	PASS
		242/62	MCS0	16.99	50.024	23.98	or 11+10log(B) =	27.08	PASS
142	5710(U-NII 2C)	full	MCS0	16.33	42.91	23.98	or 11+10log(B) =	27.11	PASS
142	5710 (U-NII 3)	full	MCS0	8.16	6.54	30			PASS
151	5755	full	MCS0	18.72	74.504	30			PASS
		242/61	MCS0	18.58	72.140	30			PASS
159	5795	full	MCS0	18.74	74.847	30			PASS
802.11ax_80_Ch1									
CH	Frequency (MHz)	RU Config	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
42	5210	full	HE0	14.59	28.771	23.98			PASS
		484/65	HE0	15.95	39.351	23.98			PASS
58	5290	full	HE0	16.37	43.347	23.98	or 11+10log(B) =	30.16	PASS
		484/66	HE0	17.07	50.928	23.98	or 11+10log(B) =	30.16	PASS
106	5530	full	HE0	15.94	39.261	23.98	or 11+10log(B) =	30.11	PASS
		484/65	HE0	15.86	38.544	23.98	or 11+10log(B) =	30.11	PASS
122	5610	full	HE0	16.94	49.426	23.98	or 11+10log(B) =	30.12	PASS
138	5690(U-NII 2C)	full	HE0	16.59	45.62	23.98	or 11+10log(B) =	30.13	PASS
138	5690 (U-NII 3)	full	HE0	5.54	3.58	30			PASS
155	5775	full	HE0	17.38	54.696	30			PASS
		484/66	HE0	17.64	58.071	30			PASS
802.11ax_160_Ch1									
CH	Frequency (MHz)	RU Config	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
50	5250	full	HE0	14.43	27.731	23.98	or 11+10log(B) =	33.13	PASS
		996/67	HE0	11.49	14.092	23.98	or 11+10log(B) =	33.13	PASS
		996/s67	HE0	11.41	13.834	23.98	or 11+10log(B) =	33.13	PASS
114	5570	full	HE0	12.37	17.257	23.98	or 11+10log(B) =	33.18	PASS
		996/67	HE0	9.98	9.953	23.98	or 11+10log(B) =	33.18	PASS
		996/s67	HE0	9.80	9.549	23.98	or 11+10log(B) =	33.18	PASS

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Mode: MIMO

802.11n_HT20_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
			CH 1	CH 0					
36	5180	HT8	14.574	15.31	17.98	62.782	23.98		PASS
44	5220	HT8	16.08	16.56	19.35	86.048	23.98		PASS
48	5240	HT8	15.84	16.1	18.99	79.300	23.98		PASS
52	5260	HT8	15.8	16.02	18.93	78.202	23.98	or $11+10\log(B) =$ 24.71	PASS
60	5300	HT8	15.71	15.88	18.82	76.149	23.98	or $11+10\log(B) =$ 24.54	PASS
64	5320	HT8	14.69	15.13	17.94	62.178	23.98	or $11+10\log(B) =$ 24.57	PASS
100	5500	HT8	14.82	15.11	17.99	62.925	23.50	or $11+10\log(B) =$ 24.61	PASS
116	5580	HT8	14.8	15.03	17.94	62.192	23.50	or $11+10\log(B) =$ 24.58	PASS
140	5700	HT8	15.69	16.183	18.96	78.782	23.50	or $11+10\log(B) =$ 24.70	PASS
144	5720(U-NII 2C)	HT8	13.91	14.30	17.15	51.905	23.50	or $11+10\log(B) =$ 24.61	PASS
144	5720 (U-NII 3)	HT8	9.85	10.39	13.09	20.390	29.52		PASS
149	5745	HT8	18.67	18.74	21.73	148.797	29.52		PASS
157	5785	HT8	18.32	19.05	21.72	148.632	29.52		PASS
165	5825	HT8	18.51	18.92	21.74	149.301	29.52		PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
			CH 1	CH 0					
38	5190	HT8	14.73	15.09	17.94	62.177	23.98		PASS
46	5230	HT8	16.78	17.36	20.10	102.381	23.98		PASS
54	5270	HT8	14.33	14.89	17.64	58.097	23.98	or $11+10\log(B) =$ 27.19	PASS
62	5310	HT8	14.49	15.05	17.80	60.278	23.98	or $11+10\log(B) =$ 27.24	PASS
102	5510	HT8	15.33	15.44	18.41	69.309	23.50	or $11+10\log(B) =$ 27.11	PASS
110	5550	HT8	16.38	16.52	19.47	88.575	23.50	or $11+10\log(B) =$ 27.15	PASS
134	5670	HT8	14.45	14.46	17.48	55.944	23.50	or $11+10\log(B) =$ 27.17	PASS
142	5710(U-NII 2C)	HT8	17.30	17.52	20.42	110.087	23.50	or $11+10\log(B) =$ 27.12	PASS
142	5720 (U-NII 3)	HT8	9.39	9.39	12.51	17.809	29.52		PASS
151	5755	HT8	18.52	18.81	21.69	147.569	29.52		PASS
159	5795	HT8	18.62	18.8	21.73	149.055	29.52		PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
			CH 1	CH 0					
42	5210	VHT0	14.73	14.85	17.82	60.595	23.98		PASS
58	5290	VHT0	14.18	14.4	17.33	54.017	23.98	or $11+10\log(B) =$ 30.24	PASS
106	5530	VHT0	11.34	11.45	14.43	27.729	23.50	or $11+10\log(B) =$ 30.19	PASS
122	5610	VHT0	16.65	16.98	19.85	96.651	23.50	or $11+10\log(B) =$ 30.20	PASS
138	5690(U-NII 2C)	VHT0	16.33	16.66	19.51	89.314	23.50	or $11+10\log(B) =$ 30.23	PASS
138	5690 (U-NII 3)	VHT0	6.37	6.16	9.54	9.001	29.52		PASS
155	5775	VHT0	15.9	15.95	18.96	78.686	29.52		PASS

802.11ac_VHT160_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
			CH 1	CH 0					
50	5250	VHT0	10.71	10.94	13.87	24.390	23.98	or $11+10\log(B) =$ 33.12	PASS
114	5570	VHT0	10.34	10.38	13.41	21.906	23.50	or $11+10\log(B) =$ 33.11	PASS

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802.11ax_20_MIMO

CH	Frequency (MHz)	RU Config	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
				CH 1	CH 0						
36	5180	full	MCS0	13.93	14.73	17.37	54.609	23.98			PASS
		26/0	MCS0	7.76	7.84	10.82	12.090	23.98			PASS
		52/37	MCS0	10.34	10.58	13.49	22.315	23.98			PASS
		106/53	MCS0	13.08	13.27	16.20	41.689	23.98			PASS
44	5220	full	MCS0	16.29	16.38	19.36	86.287	23.98			PASS
48	5240	full	MCS0	16.3	16.58	19.47	88.440	23.98			PASS
52	5260	full	MCS0	16.34	16.52	19.46	88.209	23.98	or 11+10log(B) =	24.78	PASS
60	5300	full	MCS0	16.43	16.74	19.61	91.453	23.98	or 11+10log(B) =	24.73	PASS
64	5320	full	MCS0	14.84	15.09	17.99	62.965	23.98	or 11+10log(B) =	24.66	PASS
		26/8	MCS0	7.69	7.73	10.73	11.842	23.98	or 11+10log(B) =	24.66	PASS
		52/40	MCS0	10.69	10.72	13.73	23.601	23.98	or 11+10log(B) =	24.66	PASS
		106/54	MCS0	12.13	12.3	15.24	33.420	23.98	or 11+10log(B) =	24.66	PASS
100	5500	full	MCS0	14.75	15.06	17.93	62.115	23.50	or 11+10log(B) =	24.85	PASS
		26/0	MCS0	6.94	7	9.99	9.987	23.50	or 11+10log(B) =	24.85	PASS
		52/37	MCS0	9.87	10.02	12.97	19.815	23.50	or 11+10log(B) =	24.85	PASS
		106/53	MCS0	11.53	11.4	14.49	28.117	23.50	or 11+10log(B) =	24.85	PASS
116	5580	full	MCS0	15.13	15.3	18.24	66.681	23.50	or 11+10log(B) =	24.78	PASS
140	5700	full	MCS0	15.58	15.74	18.68	73.875	23.50	or 11+10log(B) =	24.83	PASS
		26/8	MCS0	6.86	7.05	9.98	9.955	23.50	or 11+10log(B) =	24.83	PASS
		52/40	MCS0	10.37	10.53	13.47	22.258	23.50	or 11+10log(B) =	24.83	PASS
		106/54	MCS0	13.01	13.42	16.24	42.112	23.50	or 11+10log(B) =	24.83	PASS
144	5720(U-NII 2C)	full	MCS0	13.29	13.77	16.60	45.658	23.50	or 11+10log(B) =	24.77	PASS
144	5720 (U-NII 3)	full	MCS0	9.40	10.09	12.71	18.649	29.52			PASS
149	5745	full	MCS0	18.54	18.89	21.74	149.374	29.52			PASS
		26/0	MCS0	9.49	9.97	12.76	18.884	29.52			PASS
		52/37	MCS0	14.67	15.15	17.94	62.242	29.52			PASS
		106/53	MCS0	14.76	15.17	17.99	63.009	29.52			PASS
157	5785	full	MCS0	18.43	18.92	21.71	148.120	29.52			PASS
165	5825	full	MCS0	18.58	18.84	21.74	149.148	29.52			PASS

802.11ax_40_MIMO

CH	Frequency (MHz)	RU Config	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
				CH 1	CH 0						
38	5190	full	MCS0	14.69	15.1	17.93	62.114	23.98			PASS
		242/61	MCS0	12.68	12.97	15.86	38.543	23.98			PASS
46	5230	full	MCS0	16.91	17.33	20.16	103.685	23.98			PASS
54	5270	full	MCS0	16.85	18.25	20.64	115.831	23.98	or $11+10\log(B) =$	27.44	PASS
62	5310	full	MCS0	14.1	14.79	17.49	56.115	23.98	or $11+10\log(B) =$	27.41	PASS
		242/62	MCS0	14.05	14.82	17.48	56.029	23.98	or $11+10\log(B) =$	27.41	PASS
102	5510	full	MCS0	13.27	13.45	16.39	43.581	23.50	or $11+10\log(B) =$	27.35	PASS
		242/61	MCS0	9.84	10.53	13.23	21.041	23.50	or $11+10\log(B) =$	27.35	PASS
110	5550	full	MCS0	16.85	16.98	19.95	98.800	23.50	or $11+10\log(B) =$	27.34	PASS
134	5670	full	MCS0	16.5	17.38	19.99	99.869	23.50	or $11+10\log(B) =$	27.33	PASS
		242/62	MCS0	14.12	14.76	17.48	56.025	23.50	or $11+10\log(B) =$	27.33	PASS
142	5710(U-NII 2C)	full	MCS0	15.98	16.32	19.17	82.584	23.50	or $11+10\log(B) =$	27.36	PASS
142	5710 (U-NII 3)	full	MCS0	8.77	8.90	11.96	15.696	29.52			PASS
151	5755	full	MCS0	18.57	18.82	21.73	148.897	29.52			PASS
		242/61	MCS0	15.61	15.93	18.81	75.945	29.52			PASS
159	5795	full	MCS0	18.53	18.87	21.74	149.121	29.52			PASS

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802.11ax_80_MIMO											
CH	Frequency (MHz)	RU Config	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)			RESULT
				CH 1	CH 0						
42	5210	full	MCS0	12.84	12.95	15.93	39.131	23.98			PASS
		484/65	MCS0	10.87	11.05	13.99	25.066	23.98			PASS
58	5290	full	MCS0	16.75	17.24	20.03	100.735	23.98	or 11+10log(B) =	30.23	PASS
		484/66	MCS0	16.57	17.67	20.18	104.343	23.98	or 11+10log(B) =	30.23	PASS
106	5530	full	MCS0	11.74	11.93	14.87	30.661	23.50	or 11+10log(B) =	30.24	PASS
		484/65	MCS0	9.67	10.24	12.99	19.926	23.50	or 11+10log(B) =	30.24	PASS
122	5610	full	MCS0	15.35	15.44	18.43	69.584	23.50	or 11+10log(B) =	30.28	PASS
138	5690(U-NII 2C)	full	MCS0	15.05	15.12	18.11	64.724	23.50	or 11+10log(B) =	30.16	PASS
138	5690 (U-NII 3)	full	MCS0	4.28	4.25	7.34	5.422	29.52			PASS
155	5775	full	MCS0	15.82	15.89	18.89	77.358	29.52			PASS
		484/66	MCS0	15.72	15.89	18.84	76.484	29.52			PASS

802.11ax_160_MIMO												
CH	Frequency (MHz)	RU Config	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)				RESULT
				CH 1	CH 0							
50	5250	full	MCS0	11.84	11.95	14.93	31.083	23.98	or 11+10log(B) =	33.14	PASS	
		996/67	MCS0	9.76	10.12	12.97	19.832	23.98	or 11+10log(B) =	33.14	PASS	
		996/s67	MCS0	9.6	9.95	12.81	19.092	23.98	or 11+10log(B) =	33.14	PASS	
114	5570	full	MCS0	10.37	10.4	13.41	21.953	23.50	or 11+10log(B) =	33.14	PASS	
		996/67	MCS0	8.89	9.01	11.98	15.777	23.50	or 11+10log(B) =	33.14	PASS	
		996/s67	MCS0	8.83	8.89	11.89	15.453	23.50	or 11+10log(B) =	33.15	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.			

Note:

As per section F. 2). d). (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.

(ii) If all transmit signals are *completely uncorrelated*, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{\text{ANT}}] \text{ dBi}$$

where

N_{ANT} = the total number of antennas

G is the gain in dBi.

Remark:

The device supports with SDM for MIMO (in all modeds) and uncorrelated gains are used for **PSD EIRP MIMO UNII-1** of Canada authorization with **uncorrelated gains**.

The antenna gain is grater than 6 dBi in MIMO mode, therefore the limit needs to be reduced as below:

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FCC PSD Limit Attenuation (Chain 0)

	Effective Legacy Gain (dBi)	PSD Limit	
UNII-1	6.00	11.00	dBm/MHz
UNII-2A	6.10	10.90	dBm/MHz
U-NII-2C	7.00	10.00	dBm/MHz
U-NII-3	7.00	29.00	dBm/500 kHz

FCC PSD Limit Attenuation (Chain 1)

	Effective Legacy Gain (dBi)	PSD Limit	
UNII-1	5.30	11.00	dBm/MHz
UNII-2A	5.00	11.00	dBm/MHz
U-NII-2C	5.90	11.00	dBm/MHz
U-NII-3	5.90	30.00	dBm/500 kHz

FCC PSD Limit Attenuation (MIMO)

	Effective Legacy Gain (dBi)	PSD Limit	
UNII-1	5.66	11.00	dBm/MHz
UNII-2A	5.58	11.00	dBm/MHz
U-NII-2C	6.48	10.52	dBm/MHz
U-NII-3	6.48	29.52	dBm/500 kHz

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), Average = 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 $\geq$ 3RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), Average = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
Note: RBW=510kHz Offset factor $10\log(500/510) = -0.08$ with reference offset.
5. Use the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add $10 \log(1/\text{duty cycle})$.
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

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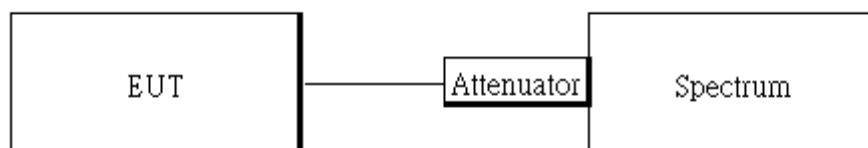
10.3 Measurement Equipment Used

SGS Conducted Room					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	07/08/2020	07/07/2021
DC Block	PASTERNAK	PE8210	RF256	11/20/2019	11/19/2020
Attenuator	Marvelous	MVE2213-10	RF80	11/20/2019	11/19/2020
IPEX-4 Cable	Woken	00100A1H646027	N/A	N/A	N/A

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown blow indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Block	PASTERNAK	PE8210	RF256	11/19/2020	11/18/2021
Attenuator	Marvelous	MVE2213-10	RF80	11/19/2020	11/18/2021

10.4 Test Set-up



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10.5 Measurement Result

10.5.1 Power spectral density

Mode: Chain 0

POWER DENSITY 802.11a MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180.00	6.917	0.09	7.01	11.00	-3.99
5220.00	7.459	0.09	7.55	11.00	-3.45
5240.00	7.478	0.09	7.57	11.00	-3.43
5260.00	7.222	0.09	7.31	10.90	-3.59
5300.00	4.798	0.09	4.89	10.90	-6.01
5320.00	3.682	0.09	3.77	10.90	-7.13
5500.00	5.706	0.09	5.80	10.00	-4.20
5580.00	7.920	0.09	8.01	10.00	-1.99
5700.00	5.473	0.09	5.57	10.00	-4.43
5720 (U-NII 2C)	7.622	0.09	7.71	10.00	-2.29
5720 (U-NII 3)	4.926	0.09	5.02	29.00	-23.98
5745.00	4.665	0.09	4.76	29.00	-24.24
5785.00	4.205	0.09	4.30	29.00	-24.70
5825.00	4.529	0.09	4.62	29.00	-24.38

POWER DENSITY 802.11n HT20 MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	6.692	-	6.69	11	-4.31
5220	7.234	-	7.23	11	-3.77
5240	7.265	-	7.27	11	-3.74
5260	7.163	-	7.16	10.9	-3.74
5300	7.111	-	7.11	10.9	-3.79
5320	6.395	-	6.40	10.9	-4.51
5500	5.261	-	5.26	10	-4.74
5580	7.981	-	7.98	10	-2.02
5700	4.976	-	4.98	10	-5.02
5720 (U-NII 2C)	7.275	-	7.28	10	-2.73
5720 (U-NII 3)	4.081	-	4.08	29	-24.92
5745	4.588	-	4.59	29	-24.41
5785	4.182	-	4.18	29	-24.82
5825	4.784	-	4.78	29	-24.22

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POWER DENSITY 802.11n HT40 MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5190	0.684	-	0.68	11	-10.32
5230	3.715	-	3.72	11	-7.29
5270	3.846	-	3.85	10.9	-7.05
5310	0.953	-	0.95	10.9	-9.95
5510	0.933	-	0.93	10	-9.07
5550	4.776	-	4.78	10	-5.22
5670	1.503	-	1.50	10	-8.50
5710 (U-NII 2C)	3.815	-	3.82	10	-6.19
5710 (U-NII 3)	1.116	-	1.12	29	-27.88
5755	1.087	-	1.09	29	-27.91
5795	1.415	-	1.42	29	-27.59

POWER DENSITY 802.11ac VHT80 MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5210	-0.596	-	-0.60	11	-11.60
5290	-2.133	-	-2.13	10.9	-13.03
5530	-2.493	-	-2.49	10	-12.49
5610	0.731	-	0.73	10	-9.27
5690 (U-NII 2C)	2.235	-	2.24	10	-7.77
5690 (U-NII 3)	-0.681	-	-0.68	29	-29.68
5775	-2.335	-	-2.34	29	-31.34

POWER DENSITY 802.11ac VHT160 MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5250	-7.977	-	-7.98	10.9	-18.88
5570	-5.766	-	-5.77	10	-15.77

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POWER DENSITY 802.11ax 20 MODE						
Frequency (MHz)	RU Config	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	full	6.425	-	6.43	11	-4.58
	26/0	9.059	-	9.06	11	-1.94
	52/37	8.674	-	8.67	11	-2.33
	106/53	2.295	-	2.30	11	-8.71
5220	full	7.624	-	7.62	11	-3.38
5240	full	6.853	-	6.85	11	-4.15
5260	full	6.706	-	6.71	10.9	-4.19
5300	full	7.535	-	7.54	10.9	-3.37
5320	full	5.272	-	5.27	10.9	-5.63
	26/8	9.108	-	9.11	10.9	-1.79
	52/40	8.821	-	8.82	10.9	-2.08
	106/54	6.558	-	6.56	10.9	-4.34
5500	full	5.735	-	5.74	10	-4.27
	26/0	7.980	-	7.98	10	-2.02
	52/37	7.737	-	7.74	10	-2.26
	106/53	8.050	-	8.05	10	-1.95
5580	full	7.701	-	7.70	10	-2.30
5700	full	4.166	-	4.17	10	-5.83
	26/8	7.821	-	7.82	10	-2.18
	52/40	4.841	-	4.84	10	-5.16
	106/54	7.536	-	7.54	10	-2.46
5720 (U-NII 2C)	full	8.117	-	8.12	10	-1.88
5720 (U-NII 3)	full	5.206	-	5.21	29	-23.79
5745	full	3.575	-	3.58	29	-25.43
	26/0	11.905	-	11.91	29	-17.10
	52/37	8.938	-	8.94	29	-20.06
	106/53	5.947	-	5.95	29	-23.05
5785	full	3.885	-	3.89	29	-25.12
5825	full	4.553	-	4.55	29	-24.45

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POWER DENSITY 802.11ax 40 MODE						
Frequency (MHz)	RU Config	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5190	full	0.230	-	0.23	11	-10.77
	242/61	2.593	-	2.59	11	-8.41
5230	full	3.518	-	3.52	11	-7.48
5270	full	3.392	-	3.39	10.9	-7.51
5310	full	0.466	-	0.47	10.9	-10.43
	242/62	6.880	-	6.88	10.9	-4.02
5510	full	-0.585	-	-0.59	10	-10.59
	242/61	-0.263	-	-0.26	10	-10.26
5550	full	4.140	-	4.14	10	-5.86
5670	full	1.087	-	1.09	10	-8.91
	242/62	7.045	-	7.05	10	-2.96
5710 (U-NII 2C)	full	4.792	-	4.79	10	-5.21
5710 (U-NII 3)	full	1.889	-	1.89	29	-27.11
5755	full	0.502	-	0.50	29	-28.50
	242/61	3.968	-	3.97	29	-25.03
5795	full	0.856	-	0.86	29	-28.14

POWER DENSITY 802.11ax 80 MODE						
Frequency (MHz)	RU Config	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5210	full	-2.576	-	-2.58	11	-13.58
	484/65	0.402	-	0.40	11	-10.60
5290	full	-2.750	-	-2.75	10.9	-13.65
	484/66	1.773	-	1.77	10.9	-9.13
5530	full	-2.897	-	-2.90	10	-12.90
	484/65	-4.632	-	-4.63	10	-14.63
5610	full	0.771	-	0.77	10	-9.23
5690 (U-NII 2C)	full	0.280	-	0.28	10	-9.72
5690 (U-NII 3)	full	-2.235	-	-2.24	29	-31.24
5775	full	-2.351	-	-2.35	29	-31.35
	484/66	0.375	-	0.38	29	-28.63

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POWER DENSITY 802.11ax 160 MODE						
Frequency (MHz)	RU Config	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5250	full	-10.238	-	-10.24	10.9	-21.14
	996/67	-6.935	-	-6.94	10.9	-17.84
	996/s67	-6.852	-	-6.85	10.9	-17.75
5570	full	-8.339	-	-8.34	10	-18.34
	996/67	-8.872	-	-8.87	10	-18.87
	996/s67	-8.879	-	-8.88	10	-18.88

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Mode: Chain 1

POWER DENSITY 802.11a MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180.00	5.019	0.09	5.11	11.00	-5.89
5220.00	5.295	0.09	5.39	11.00	-5.61
5240.00	5.200	0.09	5.29	11.00	-5.71
5260.00	5.048	0.09	5.14	11.00	-5.86
5300.00	5.225	0.09	5.32	11.00	-5.68
5320.00	5.386	0.09	5.48	11.00	-5.52
5500.00	5.316	0.09	5.41	11.00	-5.59
5580.00	5.420	0.09	5.51	11.00	-5.49
5700.00	4.817	0.09	4.91	11.00	-6.09
5720 (U-NII 2C)	4.868	0.09	4.96	11.00	-6.04
5720 (U-NII 3)	1.871	0.09	1.96	30.00	-28.04
5745.00	3.813	0.09	3.91	30.00	-26.09
5785.00	3.639	0.09	3.73	30.00	-26.27
5825.00	3.731	0.09	3.82	30.00	-26.18
POWER DENSITY 802.11n HT20 MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	5.448	-	5.45	11	-5.55
5220	5.035	-	5.04	11	-5.97
5240	4.839	-	4.84	11	-6.16
5260	5.195	-	5.20	11	-5.81
5300	5.381	-	5.38	11	-5.62
5320	5.305	-	5.31	11	-5.70
5500	5.329	-	5.33	11	-5.67
5580	4.978	-	4.98	11	-6.02
5700	4.810	-	4.81	11	-6.19
5720 (U-NII 2C)	5.439	-	5.44	11	-5.56
5720 (U-NII 3)	2.049	-	2.05	30	-27.95
5745	3.246	-	3.25	30	-26.75
5785	3.800	-	3.80	30	-26.20
5825	3.325	-	3.33	30	-26.68

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POWER DENSITY 802.11n HT40 MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5190	-0.178	-	-0.18	11	-11.18
5230	1.607	-	1.61	11	-9.39
5270	1.820	-	1.82	11	-9.18
5310	1.099	-	1.10	11	-9.90
5510	0.413	-	0.41	11	-10.59
5550	2.219	-	2.22	11	-8.78
5670	1.669	-	1.67	11	-9.33
5710 (U-NII 2C)	1.501	-	1.50	11	-9.50
5710 (U-NII 3)	-1.572	-	-1.57	30	-31.57
5755	0.251	-	0.25	30	-29.75
5795	0.277	-	0.28	30	-29.72
POWER DENSITY 802.11ac VHT80 MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5210	-1.001	-	-1.00	11	-12.00
5290	-0.306	-	-0.31	11	-11.31
5530	-3.070	-	-3.07	11	-14.07
5610	0.186	-	0.19	11	-10.81
5690 (U-NII 2C)	-0.212	-	-0.21	11	-11.21
5690 (U-NII 3)	-2.761	-	-2.76	30	-32.76
5775	-2.767	-	-2.77	30	-32.77
POWER DENSITY 802.11ac VHT160 MODE					
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5250	-8.156	-	-8.16	11	-19.16
5570	-7.959	-	-7.96	11	-18.96

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POWER DENSITY 802.11ax 20 MODE						
Frequency (MHz)	RU Config	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	full	5.194	-	5.19	11	-5.81
	26/0	9.909	-	9.91	11	-1.09
	52/37	9.388	-	9.39	11	-1.61
	106/53	7.605	-	7.61	11	-3.40
5220	full	6.586	-	6.59	11	-4.41
5240	full	4.848	-	4.85	11	-6.15
5260	full	5.081	-	5.08	11	-5.92
5300	full	6.143	-	6.14	11	-4.86
5320	full	4.927	-	4.93	11	-6.07
	26/8	8.581	-	8.58	11	-2.42
	52/40	7.579	-	7.58	11	-3.42
	106/54	7.489	-	7.49	11	-3.51
5500	full	4.795	-	4.80	11	-6.21
	26/0	8.719	-	8.72	11	-2.28
	52/37	8.259	-	8.26	11	-2.74
	106/53	7.401	-	7.40	11	-3.60
5580	full	4.729	-	4.73	11	-6.27
5700	full	2.876	-	2.88	11	-8.12
	26/8	8.594	-	8.59	11	-2.41
	52/40	5.258	-	5.26	11	-5.74
	106/54	7.440	-	7.44	11	-3.56
5720 (U-NII 2C)	full	4.825	-	4.83	11	-6.18
5720 (U-NII 3)	full	1.992	-	1.99	30	-28.01
5745	full	3.576	-	3.58	30	-26.42
	26/0	11.549	-	11.55	30	-18.45
	52/37	9.741	-	9.74	30	-20.26
	106/53	6.087	-	6.09	30	-23.91
5785	full	3.540	-	3.54	30	-26.46
5825	full	3.705	-	3.71	30	-26.30

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POWER DENSITY 802.11ax 40 MODE						
Frequency (MHz)	RU Config	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5190	full	-0.333	-	-0.33	11	-11.33
	242/61	5.033	-	5.03	11	-5.97
5230	full	1.639	-	1.64	11	-9.36
5270	full	1.331	-	1.33	11	-9.67
5310	full	-0.011	-	-0.01	11	-11.01
	242/62	5.143	-	5.14	11	-5.86
5510	full	0.547	-	0.55	11	-10.45
	242/61	-1.043	-	-1.04	11	-12.04
5550	full	3.688	-	3.69	11	-7.31
5670	full	1.068	-	1.07	11	-9.93
	242/62	4.598	-	4.60	11	-6.40
5710 (U-NII 2C)	full	1.368	-	1.37	11	-9.63
5710 (U-NII 3)	full	-1.673	-	-1.67	30	-31.67
5755	full	0.286	-	0.29	30	-29.71
	242/61	3.581	-	3.58	30	-26.42
5795	full	0.401	-	0.40	30	-29.60
POWER DENSITY 802.11ax 80 MODE						
Frequency (MHz)	RU Config	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5210	full	-2.564	-	-2.56	11	-13.56
	484/65	1.537	-	1.54	11	-9.46
5290	full	-0.881	-	-0.88	11	-11.88
	484/66	2.874	-	2.87	11	-8.13
5530	full	-0.895	-	-0.90	11	-11.90
	484/65	1.482	-	1.48	11	-9.52
5610	full	0.324	-	0.32	11	-10.68
5690 (U-NII 2C)	full	-0.048	-	-0.05	11	-11.05
5690 (U-NII 3)	full	-2.808	-	-2.81	30	-32.81
5775	full	-2.583	-	-2.58	30	-32.58
	484/66	0.270	-	0.27	30	-29.73
POWER DENSITY 802.11ax 160 MODE						
Frequency (MHz)	RU Config	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5250	full	-6.015	-	-6.02	11	-17.02
	996/67	-6.045	-	-6.05	11	-17.05
	996/s67	-5.910	-	-5.91	11	-16.91
5570	full	-7.058	-	-7.06	11	-18.06
	996/67	-7.341	-	-7.34	11	-18.34
	996/s67	-7.602	-	-7.60	11	-18.60

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Mode: MIMO

POWER DENSITY 802.11n HT20 MODE_MIMO							
Frequency (MHz)	CH1	CH0	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	3.087	2.736	5.93	-	5.93	11.00	-5.07
5220	5.019	4.373	7.72	-	7.72	11.00	-3.28
5240	4.498	4.194	7.36	-	7.36	11.00	-3.64
5260	4.182	4.308	7.26	-	7.26	11.00	-3.74
5300	4.539	4.675	7.62	-	7.62	11.00	-3.38
5320	3.662	3.355	6.52	-	6.52	11.00	-4.48
5500	3.106	2.997	6.06	-	6.06	10.52	-4.46
5580	3.202	2.506	5.88	-	5.88	10.52	-4.64
5700	3.778	3.516	6.66	-	6.66	10.52	-3.86
5720 (U-NII 2C)	3.676	3.774	6.74	-	6.74	10.52	-3.78
5720 (U-NII 3)	1.177	0.450	3.84	-	3.84	29.52	-25.68
5745	4.498	4.464	7.49	-	7.49	29.52	-22.03
5785	4.471	3.739	7.13	-	7.13	29.52	-22.39
5825	4.695	4.511	7.61	-	7.61	29.52	-21.91
POWER DENSITY 802.11n HT40 MODE_MIMO							
Frequency (MHz)	CH1	CH0	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5190	-0.620	-0.419	2.49	-	2.49	11.00	-8.51
5230	1.926	2.153	5.05	-	5.05	11.00	-5.95
5270	2.244	2.613	5.44	-	5.44	11.00	-5.56
5310	-0.128	0.279	3.09	-	3.09	11.00	-7.91
5510	0.728	0.091	3.43	-	3.43	10.52	-7.09
5550	2.096	1.967	5.04	-	5.04	10.52	-5.48
5670	-1.047	-0.774	2.10	-	2.10	10.52	-8.42
5710 (U-NII 2C)	3.469	3.501	6.50	-	6.50	10.52	-4.02
5710 (U-NII 3)	0.301	0.331	3.33	-	3.33	29.52	-26.19
5755	-0.141	0.134	3.01	-	3.01	29.52	-26.51
5795	0.833	0.871	3.86	-	3.86	29.52	-25.66
POWER DENSITY 802.11ac VHT80 MODE_MIMO							
Frequency (MHz)	CH1	CH0	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5210	-1.946	-2.087	0.99	-	0.99	11.00	-10.01
5290	-3.517	-2.921	-0.20	-	-0.20	11.00	-11.20
5530	-5.68	-5.379	-2.52	-	-2.52	10.52	-13.04
5610	-0.091	0.145	3.04	-	3.04	10.52	-7.48
5690 (U-NII 2C)	-0.421	-0.032	2.79	-	2.79	10.52	-7.73
5690 (U-NII 3)	-3.311	-2.952	-0.12	-	-0.12	29.52	-29.64
5775	-3.714	-3.828	-0.76	-	-0.76	29.52	-30.28

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POWER DENSITY 802.11ac VHT160 MODE_MIMO

Frequency (MHz)	CH1	CH0	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5250	-10.040	-9.463	-6.73	-	-6.73	11.00	-17.73
5570	-9.053	-9.456	-6.24	-	-6.24	10.52	-16.76

POWER DENSITY 802.11ax 20 MODE_MIMO

Frequency (MHz)	RU Config	CH1	CH0	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	full	2.589	2.183	5.40	-	5.40	11.00	-5.60
	26/0	4.273	3.781	7.04	-	7.04	11.00	-3.96
	52/37	2.996	2.946	5.98	-	5.98	11.00	-5.02
	106/53	3.511	3.163	6.35	-	6.35	11.00	-4.65
5220	full	4.543	4.261	7.41	-	7.41	11.00	-3.59
5240	full	4.180	4.313	7.26	-	7.26	11.00	-3.74
5260	full	4.275	4.523	7.41	-	7.41	11.00	-3.59
5300	full	4.174	4.518	7.36	-	7.36	11.00	-3.64
5320	full	2.869	3.245	6.07	-	6.07	11.00	-4.93
	26/8	3.603	3.966	6.80	-	6.80	10.52	-3.72
	52/40	2.823	3.155	6.00	-	6.00	10.52	-4.52
	106/54	2.639	2.582	5.62	-	5.62	10.52	-4.90
5500	full	3.419	3.006	6.23	-	6.23	10.52	-4.29
	26/0	3.084	3.509	6.31	-	6.31	10.52	-4.21
	52/37	3.474	3.150	6.33	-	6.33	10.52	-4.19
	106/53	2.183	2.255	5.23	-	5.23	10.52	-5.29
5580	full	3.241	3.168	6.21	-	6.21	10.52	-4.31
5700	full	3.174	3.324	6.26	-	6.26	10.52	-4.26
	26/8	2.744	2.955	5.86	-	5.86	10.52	-4.66
	52/40	2.966	2.778	5.88	-	5.88	10.52	-4.64
	106/54	3.173	3.216	6.20	-	6.20	10.52	-4.32
5720 (U-NII 2C)	full	4.545	3.912	7.25	-	7.25	10.52	-3.27
5720 (U-NII 3)	full	1.469	1.163	4.33	-	4.33	29.52	-25.19
5745	full	3.664	3.874	6.78	-	6.78	29.52	-22.74
	26/0	2.526	2.617	5.58	-	5.58	29.52	-23.94
	52/37	5.176	5.125	8.16	-	8.16	29.52	-21.36
	106/53	2.413	2.288	5.36	-	5.36	29.52	-24.16
5785	full	3.786	3.553	6.68	-	6.68	29.52	-22.84
5825	full	4.124	4.065	7.10	-	7.10	29.52	-22.42

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POWER DENSITY 802.11ax 40 MODE_MIMO

Frequency (MHz)	RU Config	CH1	CH0	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5190	full	-0.295	-0.175	2.78	-	2.78	11.00	-8.22
	242/61	0.723	1.073	3.91	-	3.91	11.00	-7.09
5230	full	2.016	2.039	5.04	-	5.04	11.00	-5.96
5270	full	1.877	2.404	5.16	-	5.16	11.00	-5.84
5310	full	-1.063	-0.821	2.07	-	2.07	11.00	-8.93
	242/62	3.198	3.057	6.14	-	6.14	11.00	-4.86
5510	full	-1.798	-1.89	1.17	-	1.17	10.52	-9.35
	242/61	-1.271	-0.95	1.90	-	1.90	10.52	-8.62
5550	full	1.911	1.911	4.92	-	4.92	10.52	-5.60
5670	full	-1.67	-1.007	1.68	-	1.68	10.52	-8.84
	242/62	3.651	3.732	6.70	-	6.70	10.52	-3.82
5710 (U-NII 2C)	full	2.732	2.998	5.88	-	5.88	10.52	-4.64
5710 (U-NII 3)	full	0.11	-0.252	2.94	-	2.94	29.52	-26.58
5755	full	0.505	0.183	3.36	-	3.36	29.52	-26.16
	242/61	0.714	0.898	3.82	-	3.82	29.52	-25.70
5795	full	0.051	0.253	3.16	-	3.16	29.52	-26.36

POWER DENSITY 802.11ax 80 MODE_MIMO

Frequency (MHz)	RU Config	CH1	CH0	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5210	full	-4.124	-4.042	-1.07	-	-1.07	11.00	-12.07
	484/65	-4.484	3.155	3.85	-	3.85	11.00	-7.15
5290	full	0.344	0.621	3.50	-	3.50	11.00	-7.50
	484/66	2.96	1.9	5.47	-	5.47	11.00	-5.53
5530	full	-5.05	-4.685	-1.85	-	-1.85	10.52	-12.37
	484/65	-1.388	-0.79	1.93	-	1.93	10.52	-8.59
5610	full	-1.128	-1.234	1.83	-	1.83	10.52	-8.69
5690 (U-NII 2C)	full	-1.803	-1.294	1.47	-	1.47	10.52	-9.05
5690 (U-NII 3)	full	-4.037	-4.144	-1.08	-	-1.08	29.52	-30.60
5775	full	-3.844	-3.891	-0.86	-	-0.86	29.52	-30.38
	484/66	-2.706	-2.967	0.18	-	0.18	29.52	-29.34

POWER DENSITY 802.11ax 160 MODE_MIMO

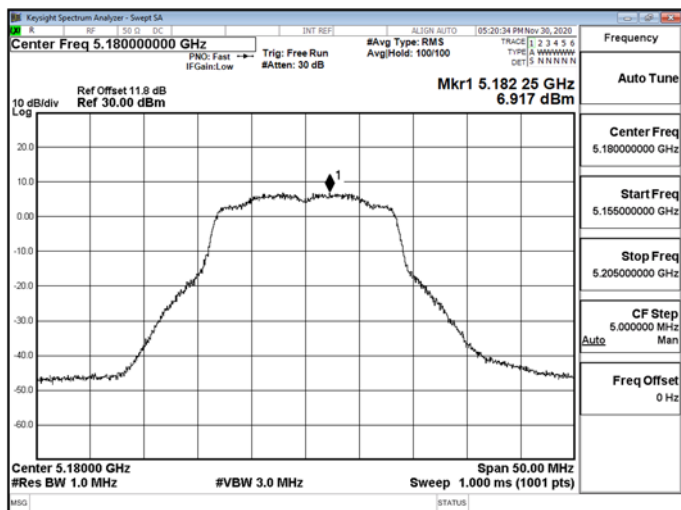
Frequency (MHz)	RU Config	CH1	CH0	PSD W/O Duty Factor (dBm)	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5250	full	-7.699	-7.274	-4.47	-	-4.47	11.00	-15.47
	996/67	-7.479	-7.47	-4.46	-	-4.46	11.00	-15.46
	996/s67	-7.699	-7.412	-4.54	-	-4.54	11.00	-15.54
5570	full	-10.295	-10.034	-7.15	-	-7.15	10.52	-17.67
	996/67	-7.816	-7.977	-4.89	-	-4.89	10.52	-15.41
	996/s67	-8.085	8.085	8.19	-	8.19	10.52	-2.33

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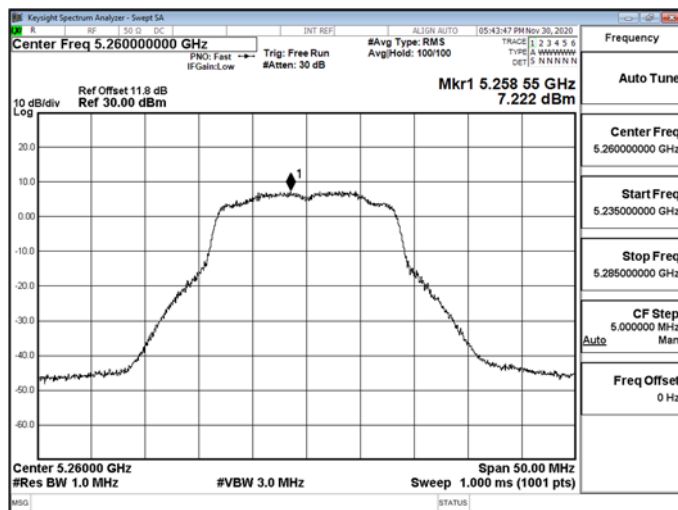
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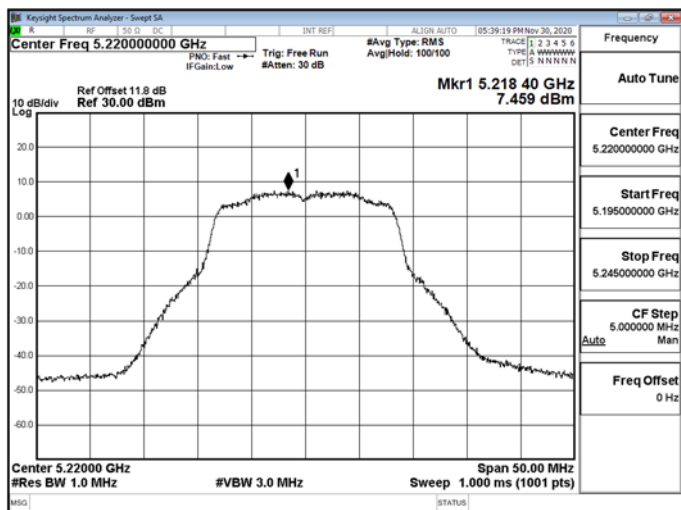
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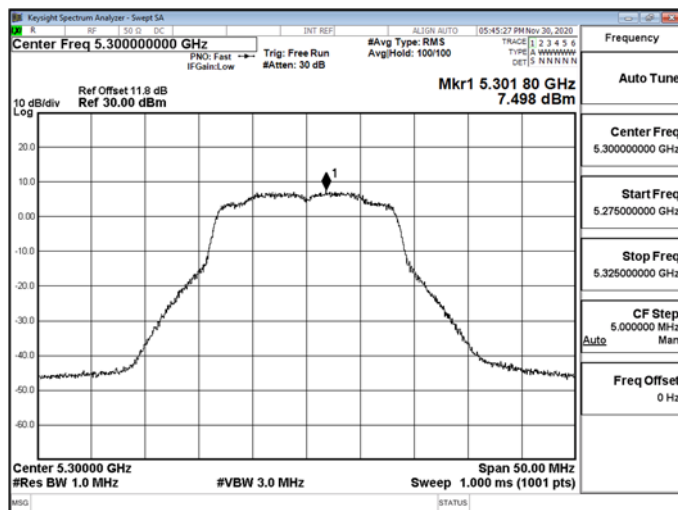
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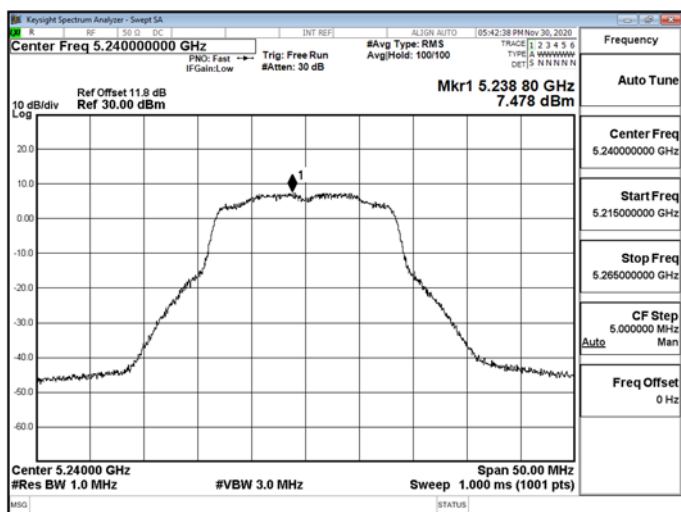
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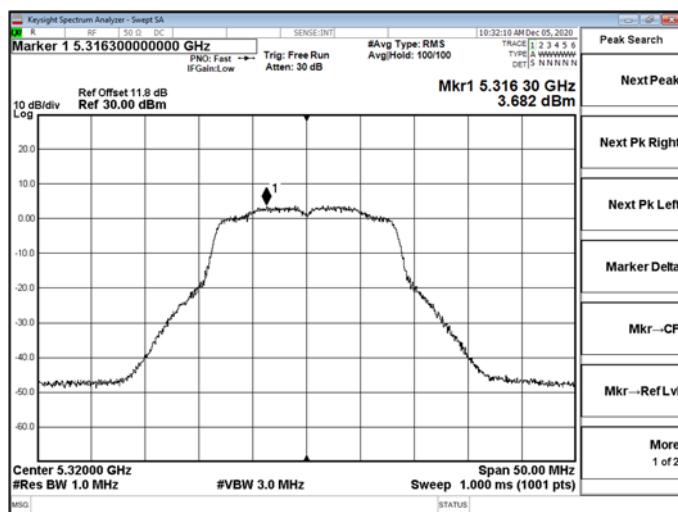
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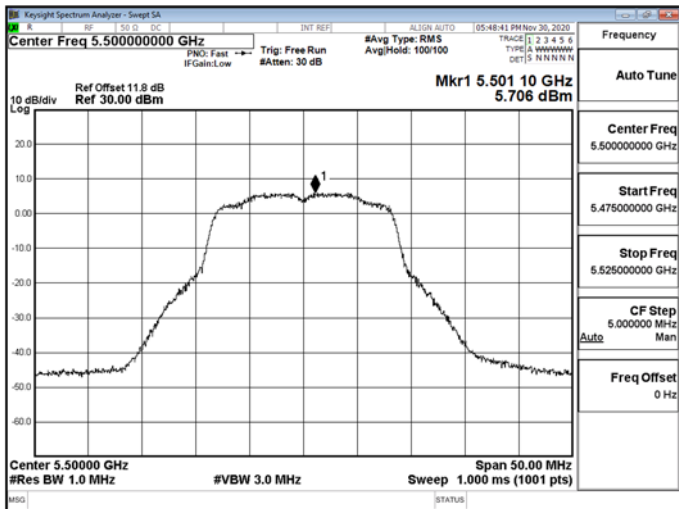


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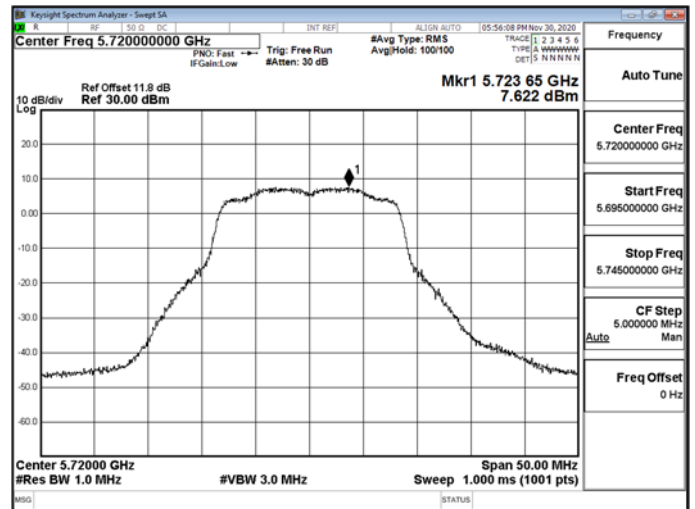
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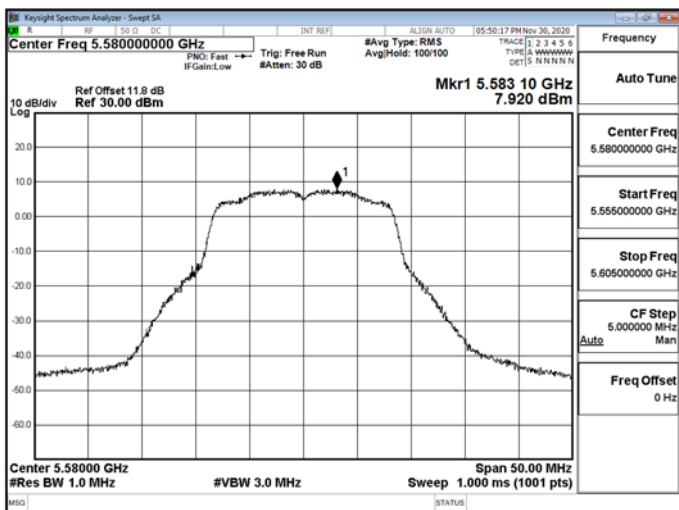
802.11a_20MHz_5500MHz-5500



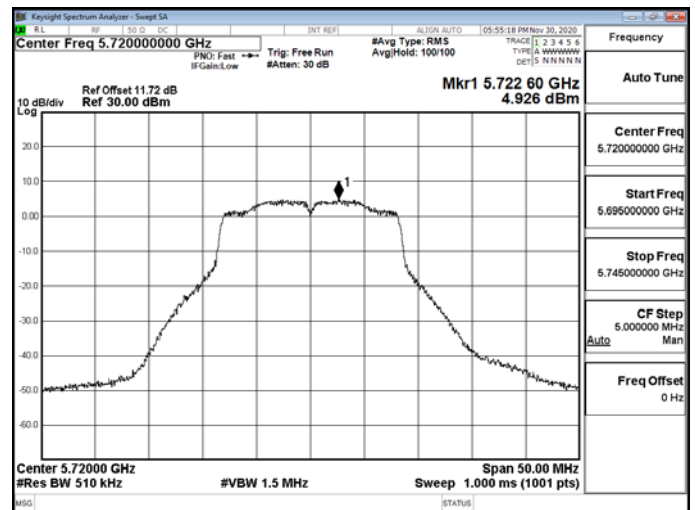
802.11a_20MHz_5720MHz_UNII 2C



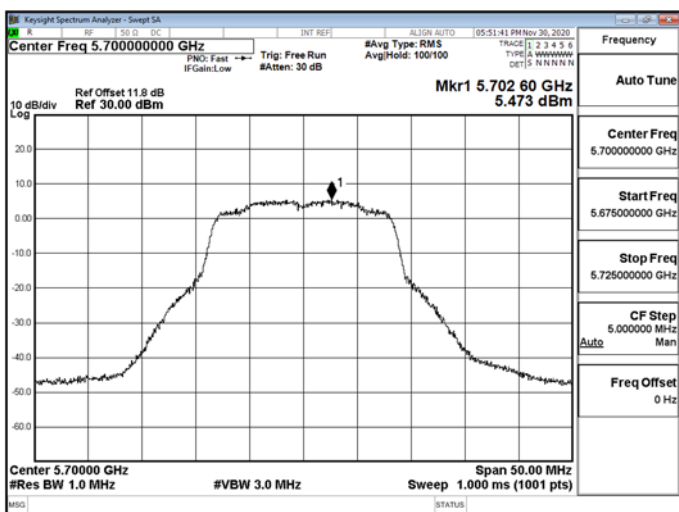
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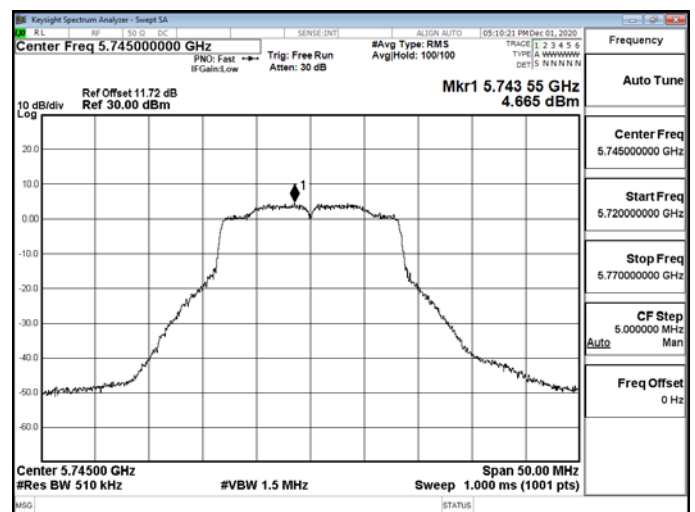
802.11a_20MHz_5720MHz_UNII 3



802.11a_20MHz_5700MHz-5700



802.11a_20MHz_5745MHz-5745

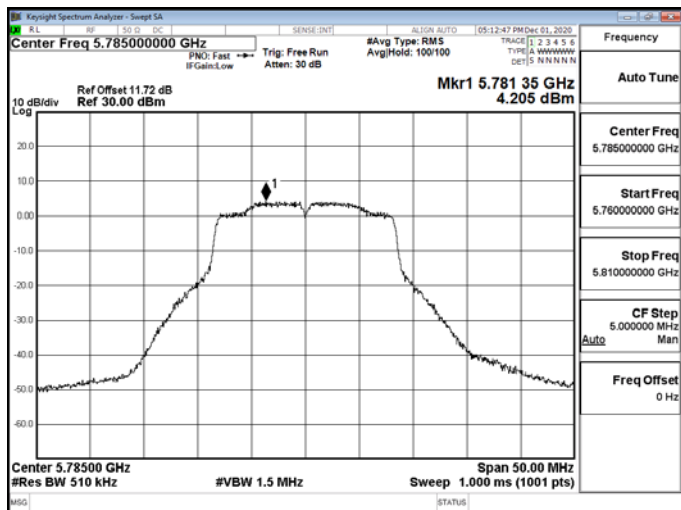


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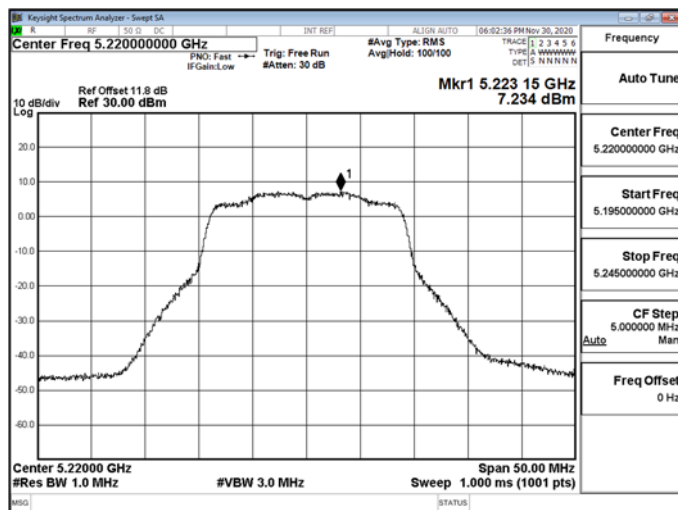
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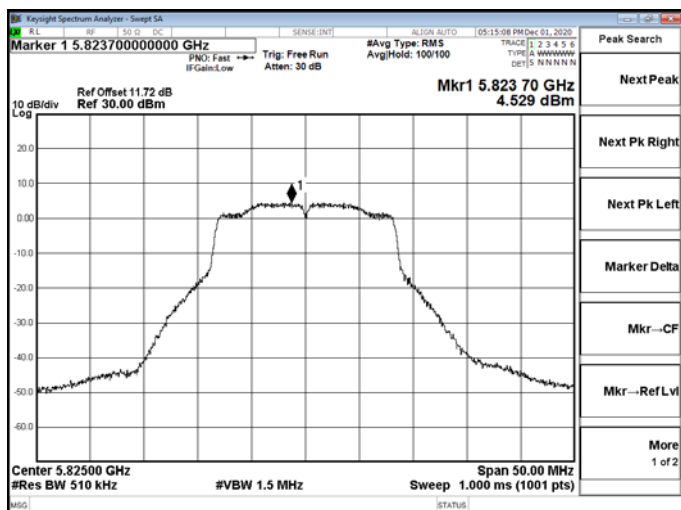
802.11a_20MHz_5785MHz-5785



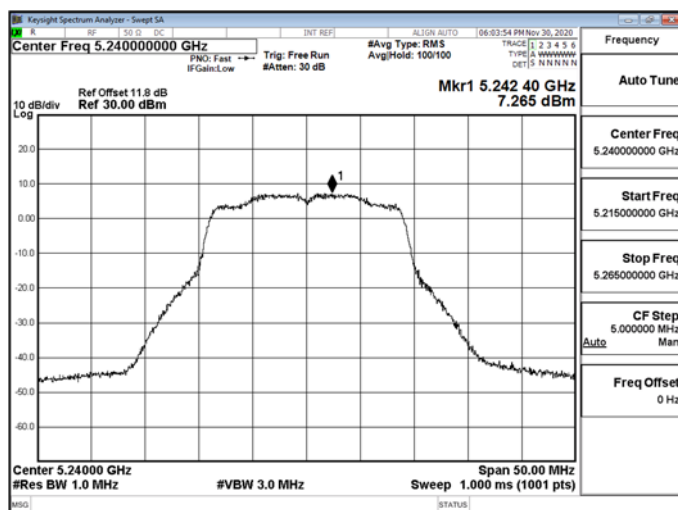
802.11n_20MHz_5220MHz-5220



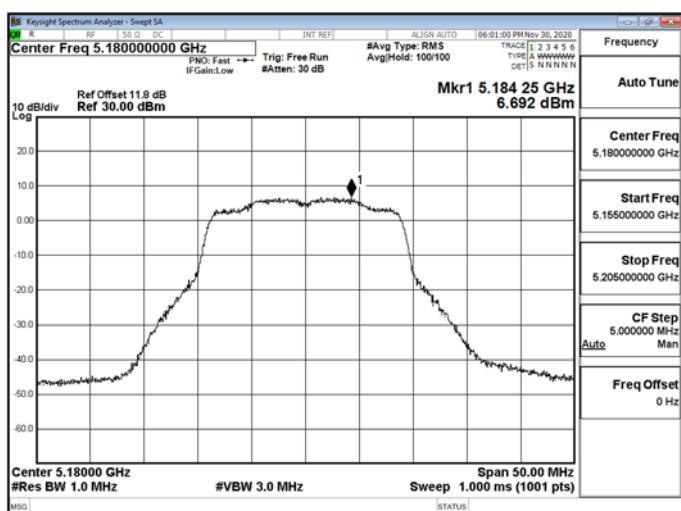
802.11a_20MHz_5825MHz-5825



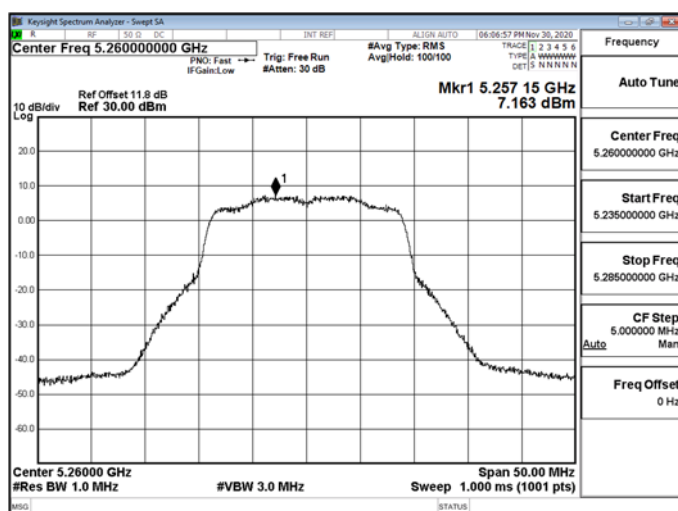
802.11n_20MHz_5240MHz-5240



802.11n_20MHz_5180MHz-5180



802.11n_20MHz_5260MHz-5260



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