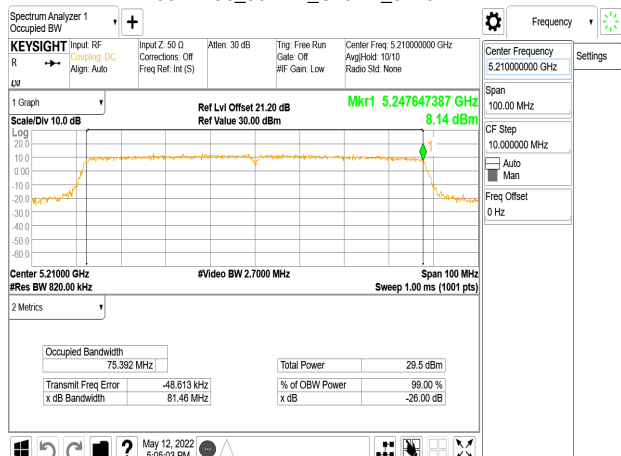


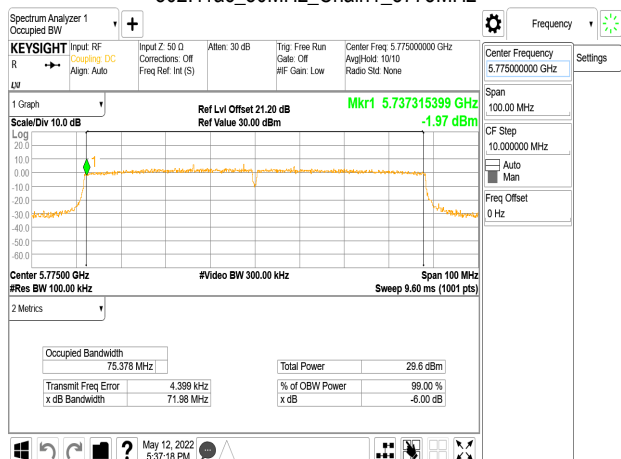
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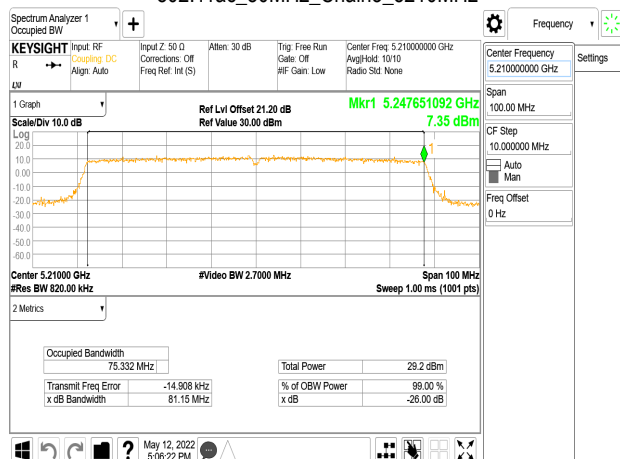
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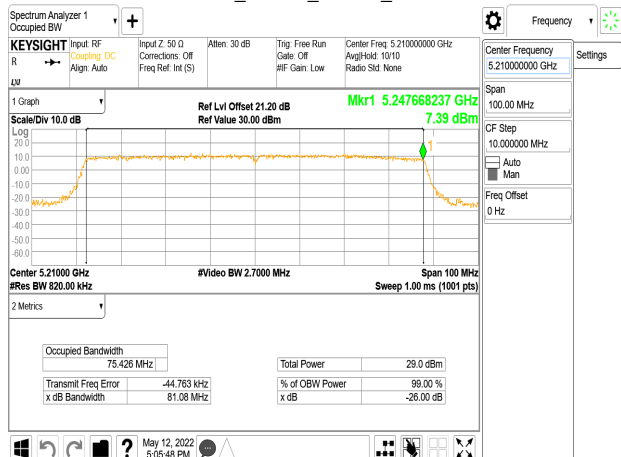
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802.11ac\_80MHz\_Chain2\_5210MHz



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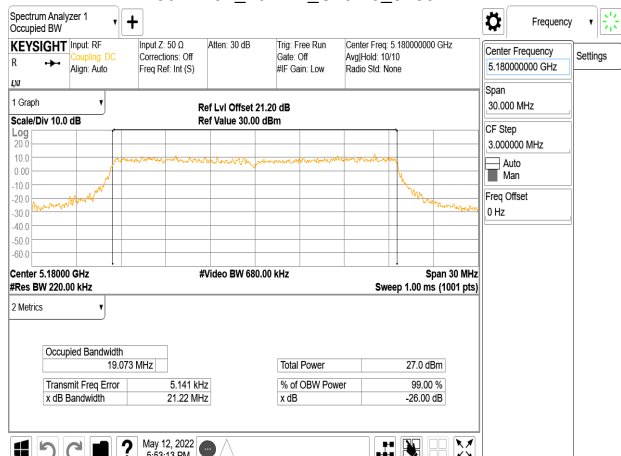


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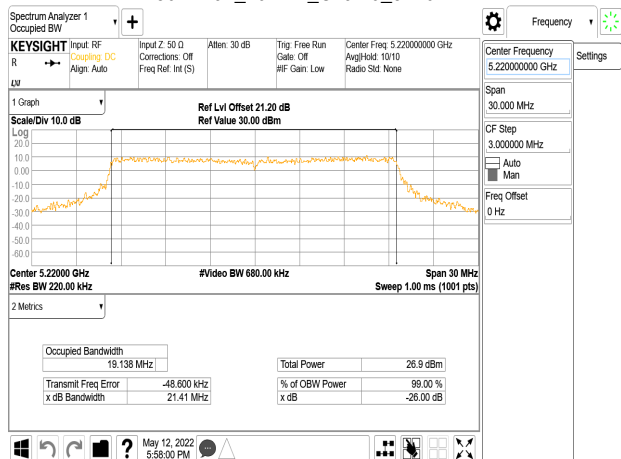
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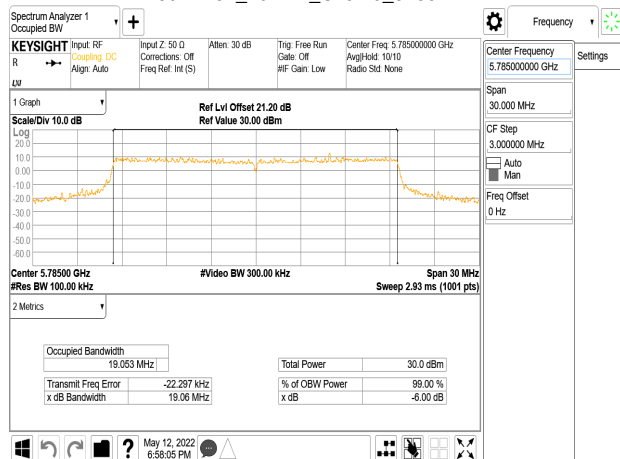
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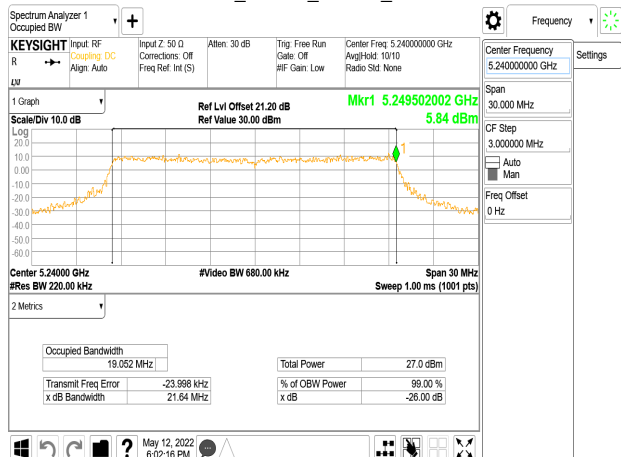
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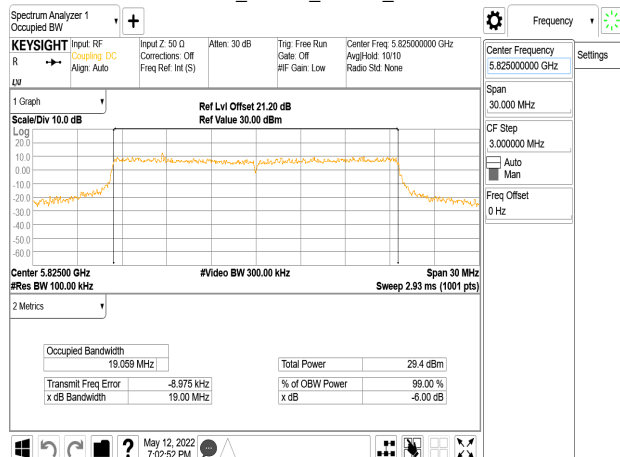
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802.11ax\_20MHz\_Chain0\_5240MHz



802.11ax\_20MHz\_Chain0\_5825MHz

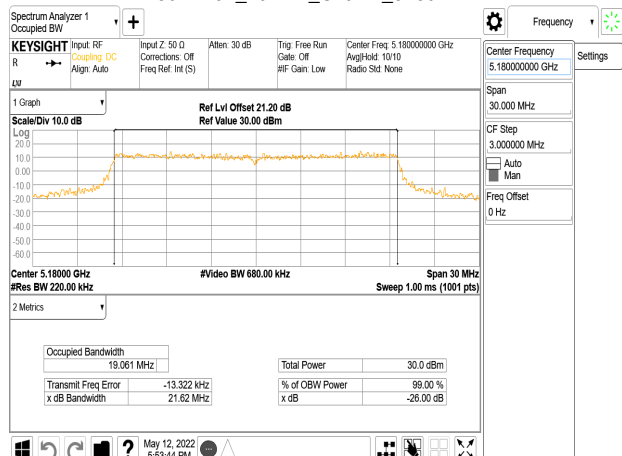


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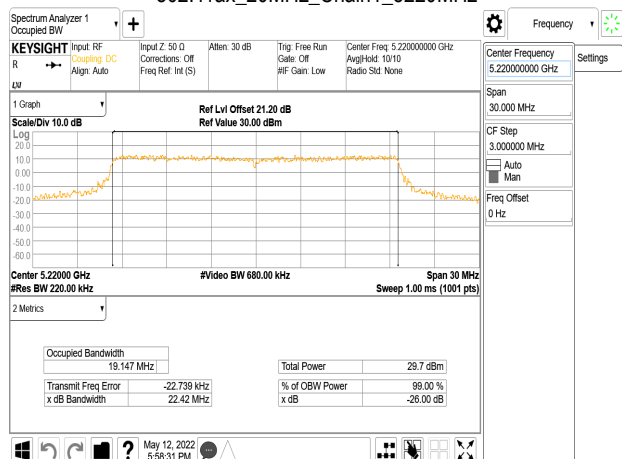
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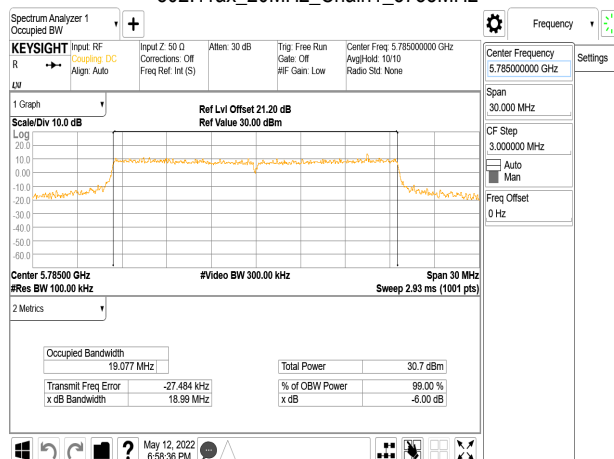
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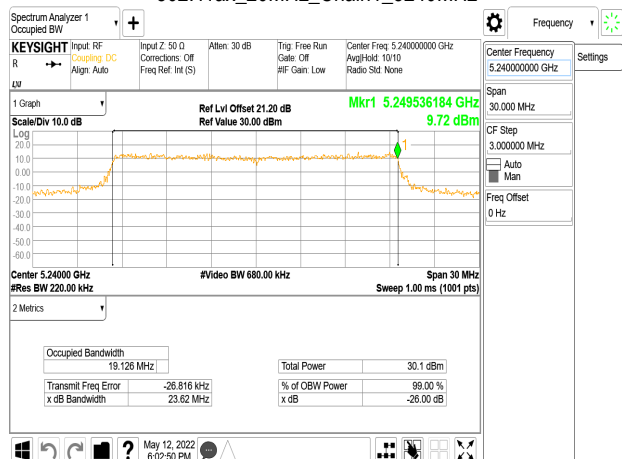
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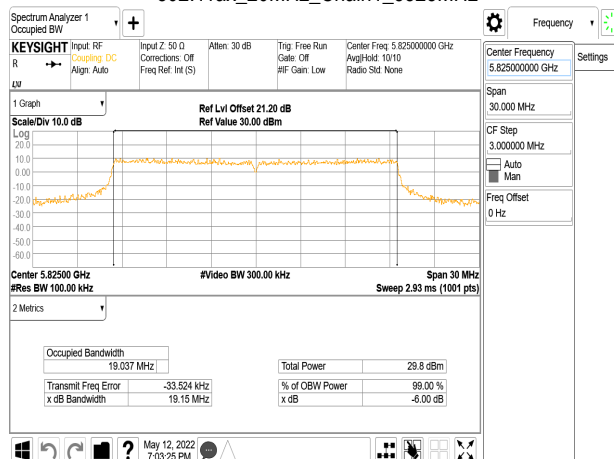
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802.11ax\_20MHz\_Chain1\_5240MHz



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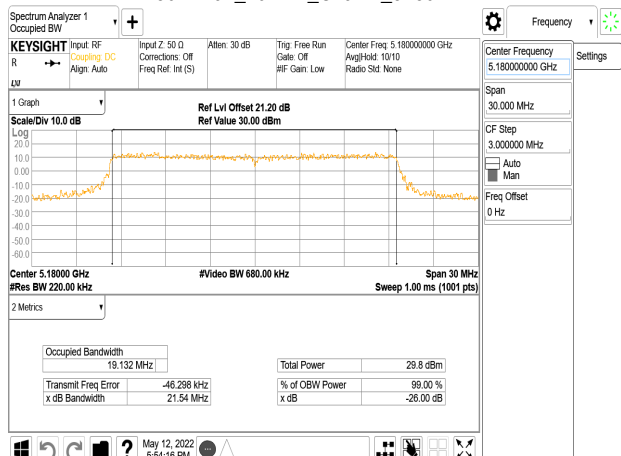


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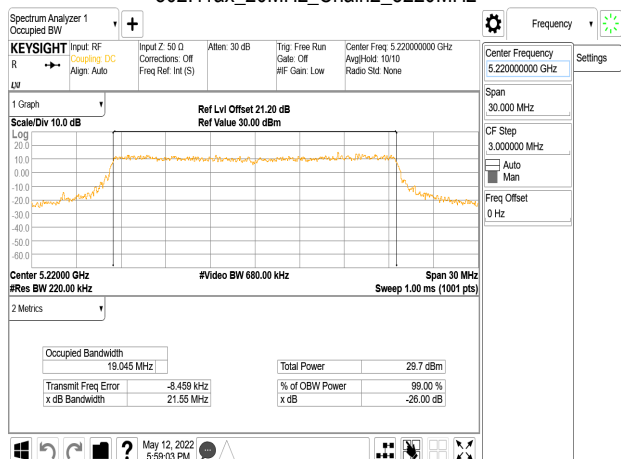
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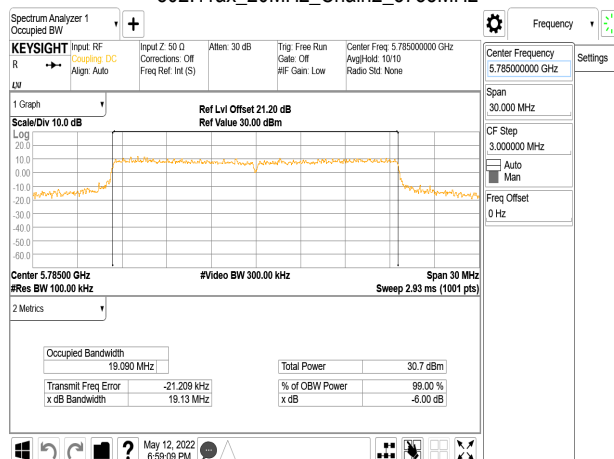
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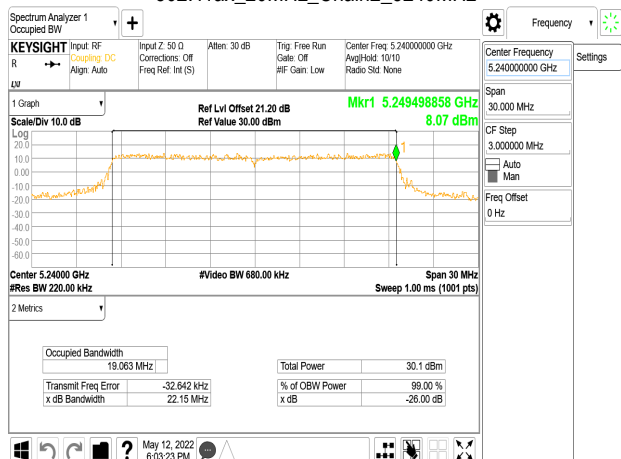
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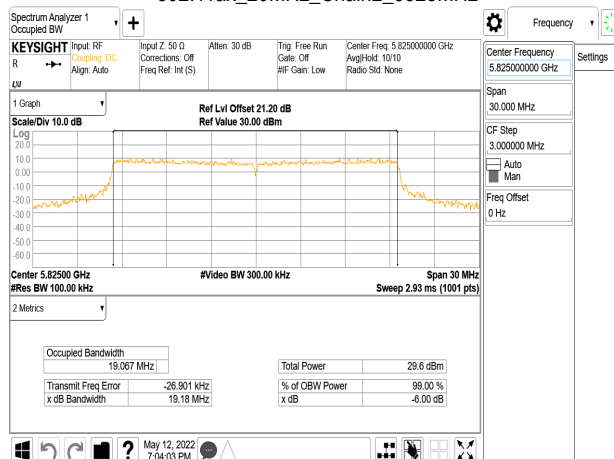
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802.11ax\_20MHz\_Chain2\_5825MHz

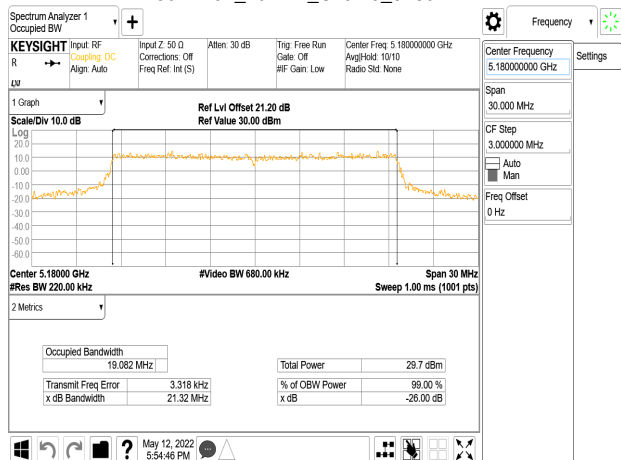


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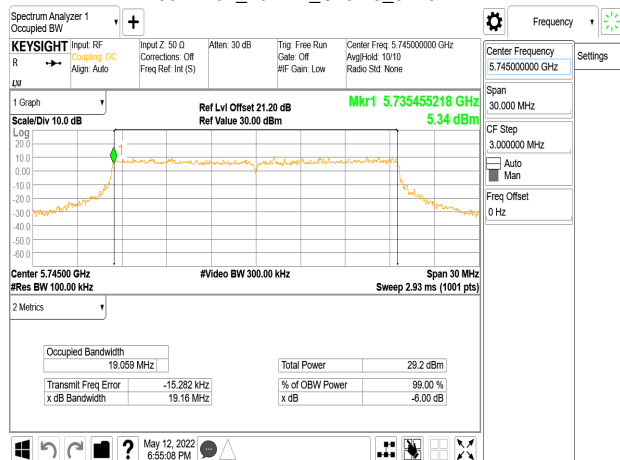
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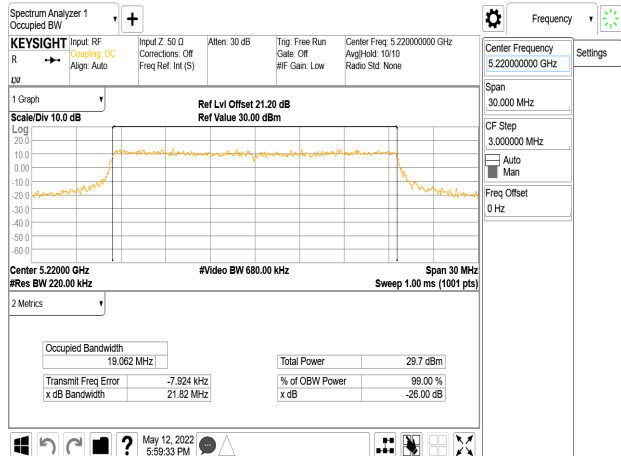
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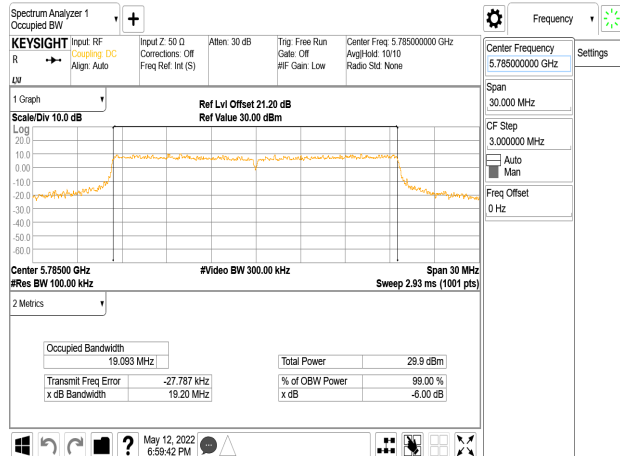
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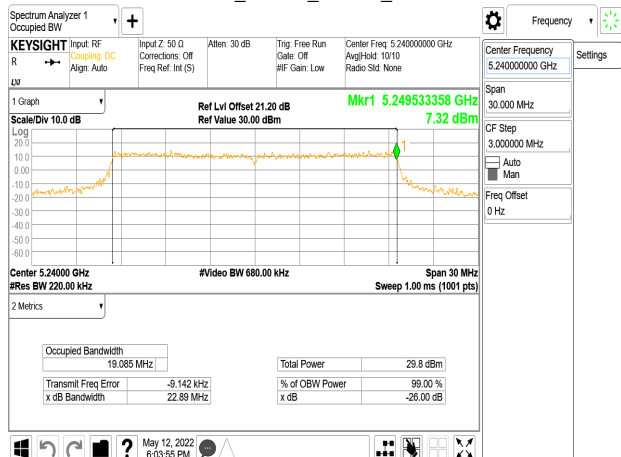
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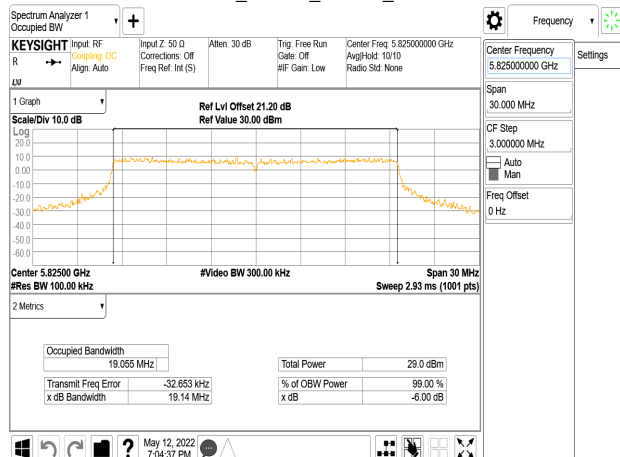
802.11ax\_20MHz\_Chain3\_5785MHz



802.11ax\_20MHz\_Chain3\_5240MHz



802.11ax\_20MHz\_Chain3\_5825MHz



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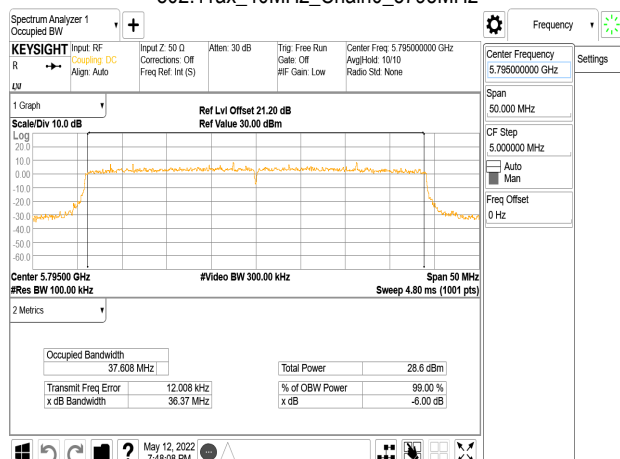
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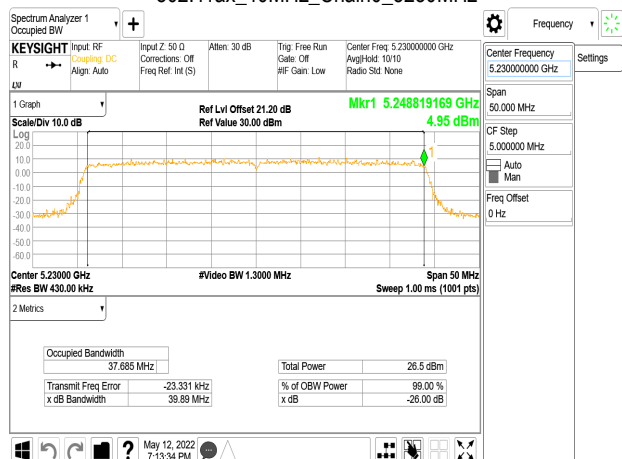
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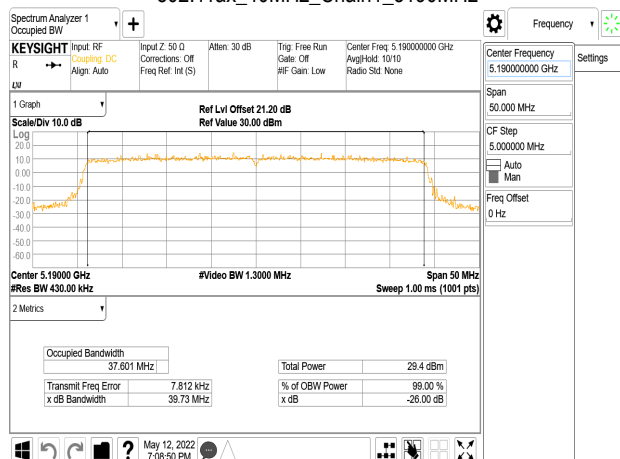
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802.11ax\_40MHz\_Chain0\_5230MHz



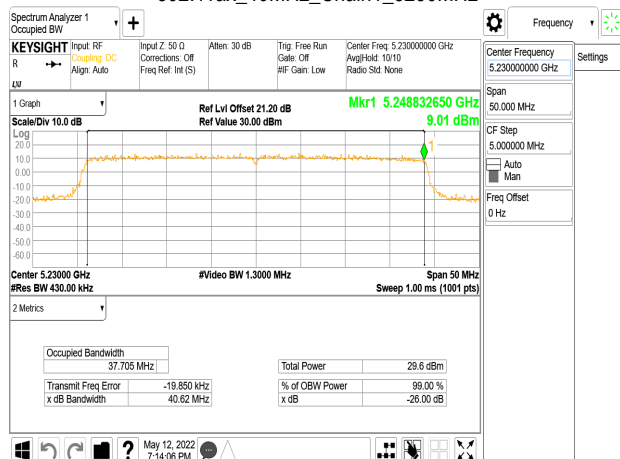
802.11ax\_40MHz\_Chain1\_5190MHz



802.11ax\_40MHz\_Chain0\_5755MHz



802.11ax\_40MHz\_Chain1\_5230MHz



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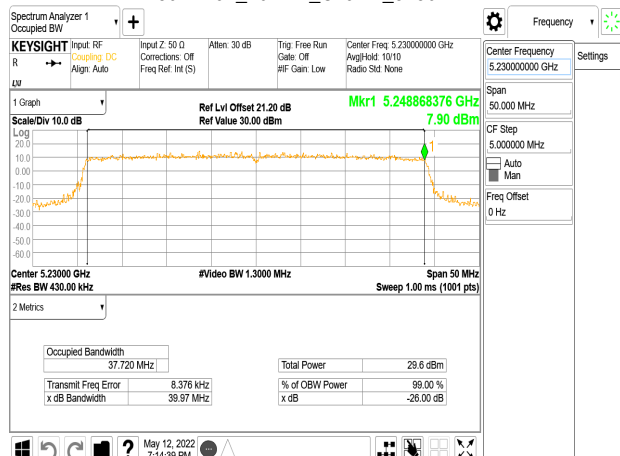
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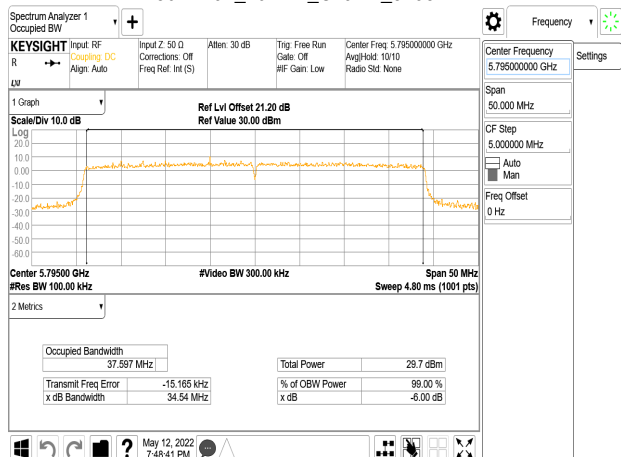
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802.11ax\_40MHz\_Chain2\_5230MHz



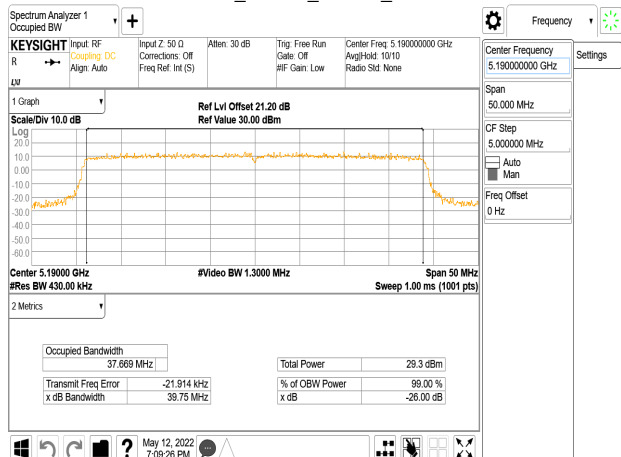
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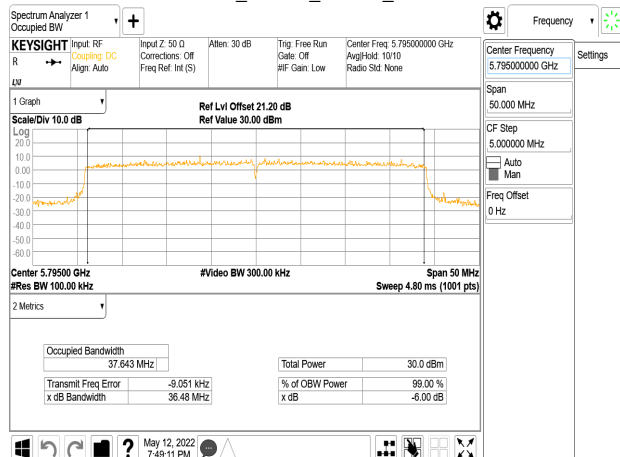
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802.11ax\_40MHz\_Chain2\_5190MHz



802.11ax\_40MHz\_Chain2\_5795MHz



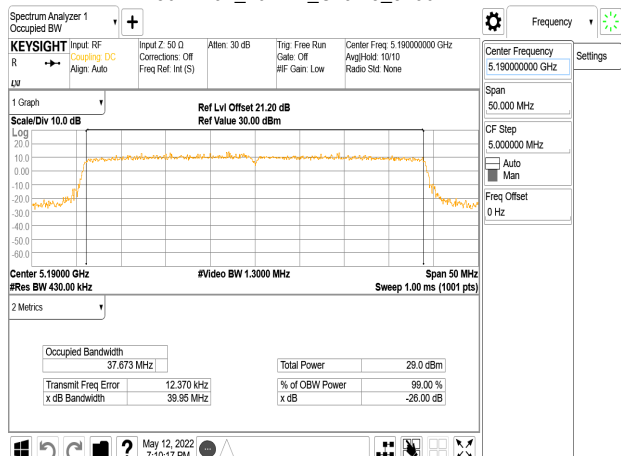
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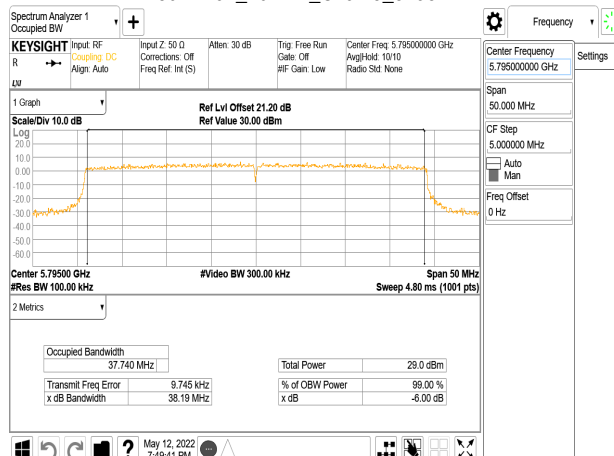
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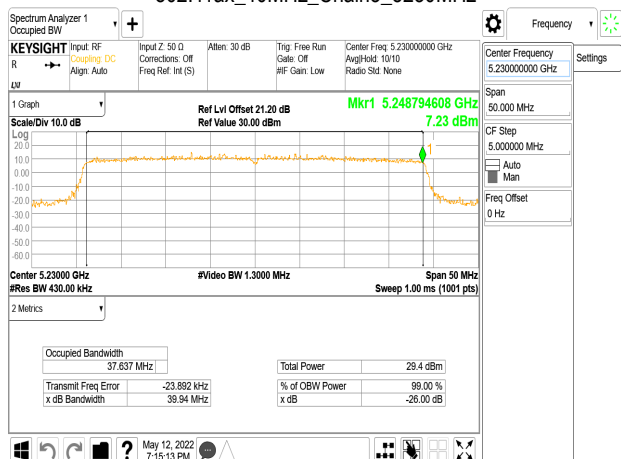
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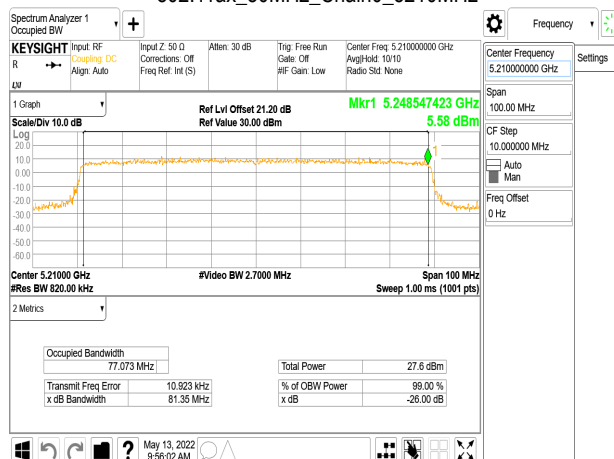
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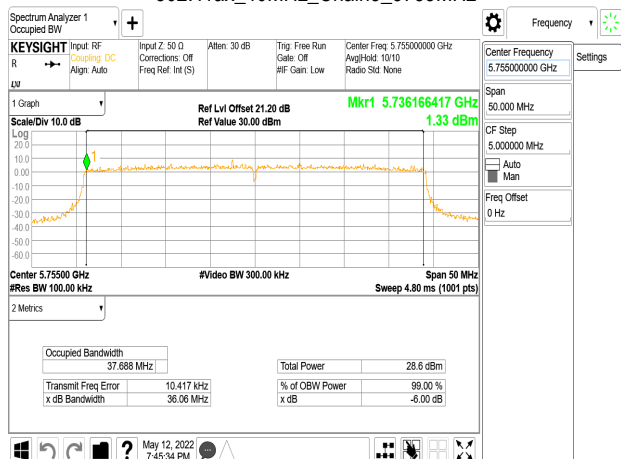
802.11ax\_40MHz\_Chain3\_5230MHz



802.11ax\_80MHz\_Chain0\_5210MHz



802.11ax\_40MHz\_Chain3\_5755MHz



802.11ax\_80MHz\_Chain0\_5775MHz



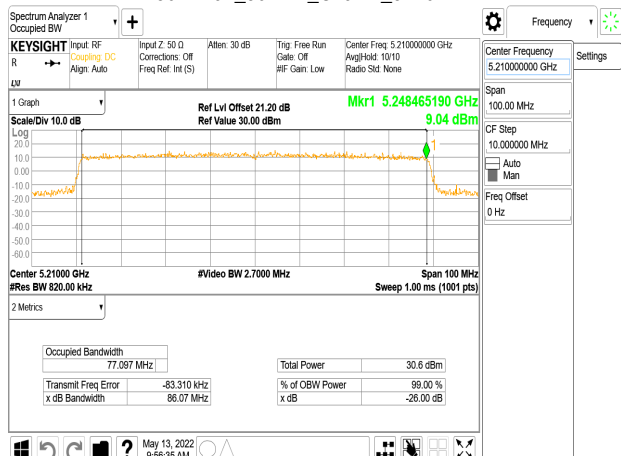
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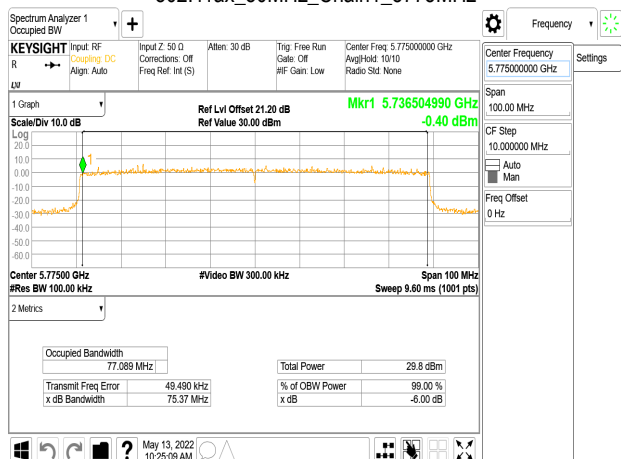
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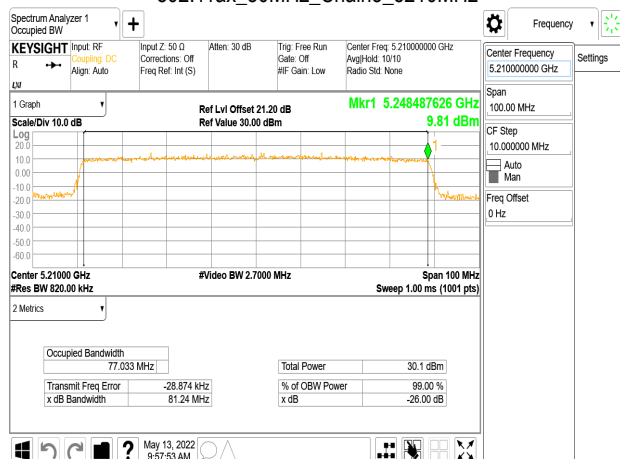
802.11ax\_80MHz\_Chain2\_5775MHz



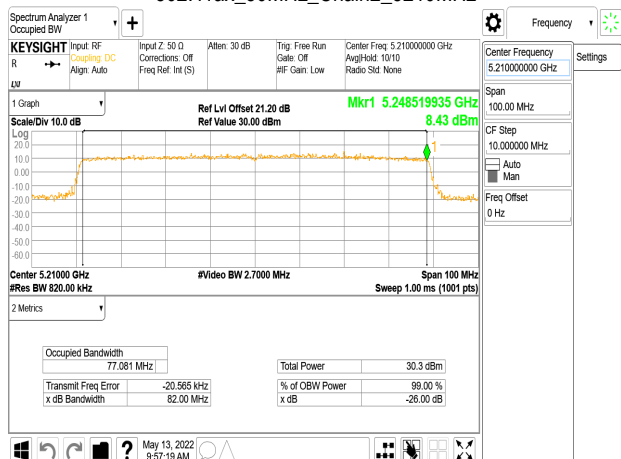
802.11ax\_80MHz\_Chain1\_5775MHz



802.11ax\_80MHz\_Chain3\_5210MHz



802.11ax\_80MHz\_Chain2\_5210MHz



802.11ax\_80MHz\_Chain3\_5775MHz



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## 9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

### 9.1 Standard Applicable

#### 9.1.1 Duty Cycle

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

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

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## 9.1.2 Output Power

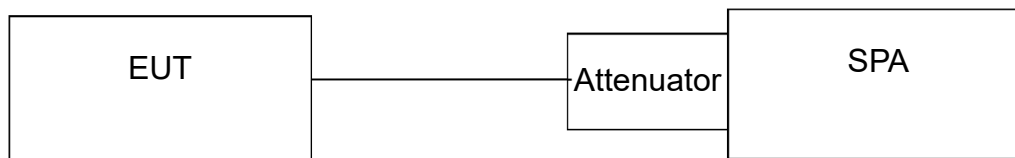
Band	EUT CATEGORY		e-CRF Title 47 §15.407			
			Conducted Output Power	EIRP	TPC	Antenna Directional Gain Requirements
U-NII-1		Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	23dBi
		Out door AP	1 Watt(30dBm)	Elevation angle above 30 degrees 125mW (21dBm)	Not required	6dBi
	V	Indoor AP	1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

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

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

## 9.2 Test Setup

### 9.2.1 Duty Cycle

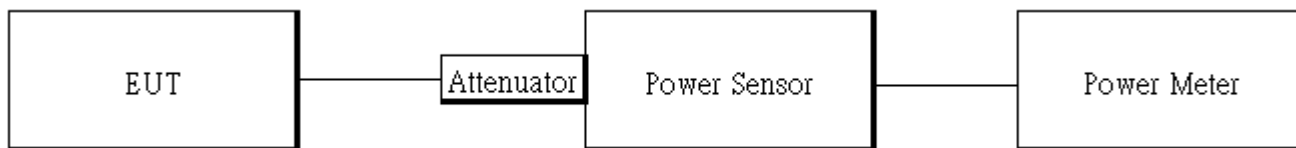


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### 9.2.2 Output Power



## 9.3 Measurement Procedure

### 9.3.1 Duty Cycle Measurements

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

### 9.3.2 Output Power Measurements

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

#### Note:

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

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

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

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.

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The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

#### 9.4 Duty Cycle Measurement Result

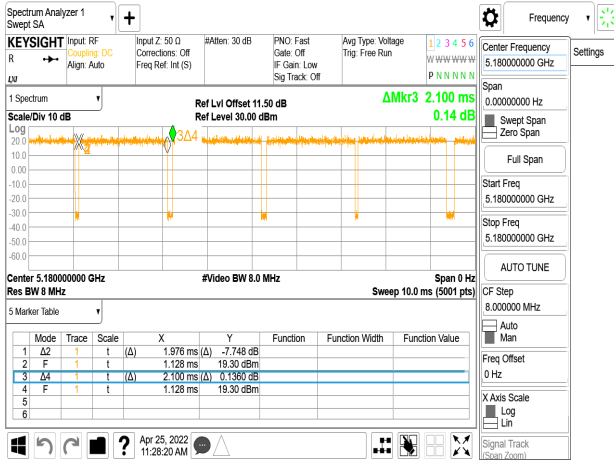
Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log ( 1/Duty Cycle )	1/T (kHz)	VBW setting (kHz)
802.11a	94.10	0.26	0.51	1.00
802.11n_20	98.20	0.08	0.19	0.01
802.11ac_20	98.02	0.09	0.19	0.01
802.11n_40	96.77	0.14	0.19	1.00
802.11ac_40	98.71	0.06	0.19	0.01
802.11ac_80	96.78	0.14	0.19	1.00
802.11ac_160	98.57	0.06	0.19	0.01
802.11ax_20	98.01	0.09	0.19	0.01
802.11ax_40	98.89	0.05	0.19	0.01
802.11ax_80	98.07	0.08	0.19	0.01
802.11ax_160	96.14	0.17	0.23	1.00

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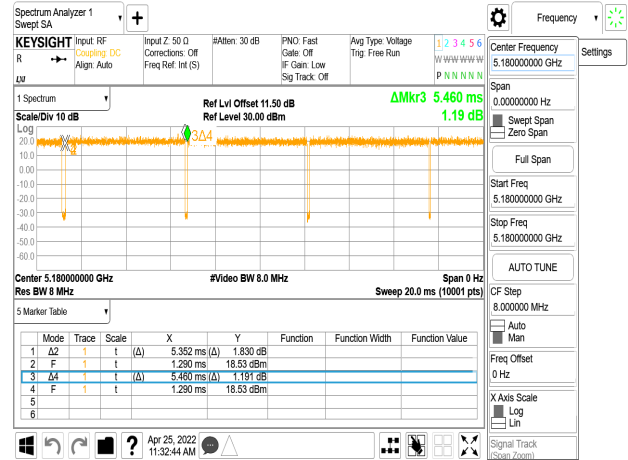
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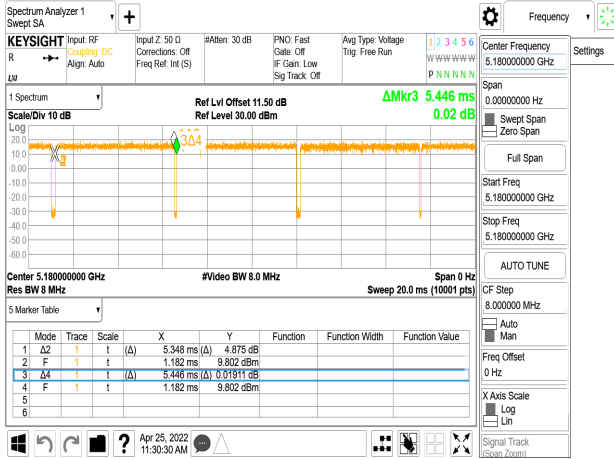
802.11a\_20MHz\_Chain0\_5180MHz



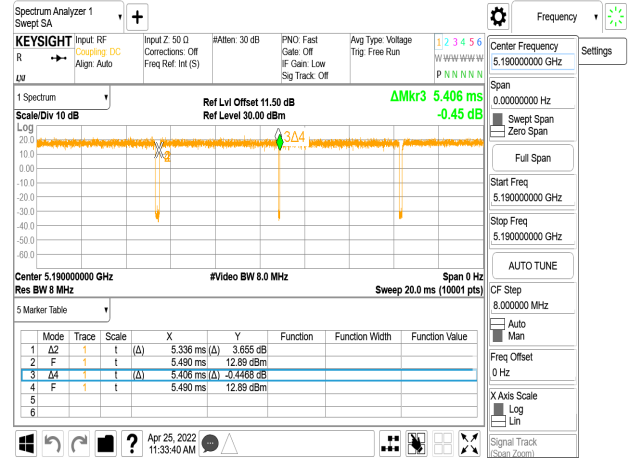
802.11ac\_20MHz\_Chain0\_5180MHz



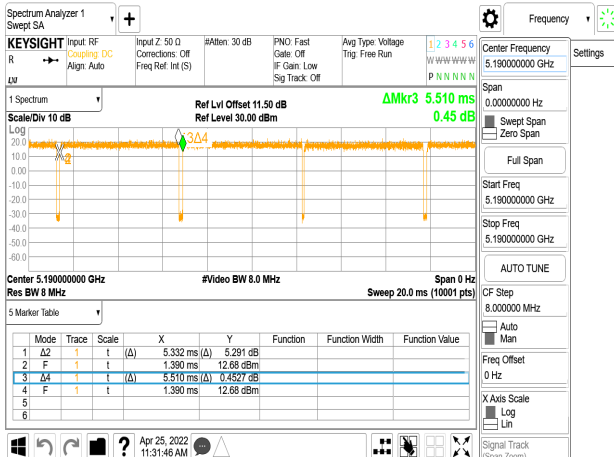
802.11n\_20MHz\_Chain0\_5180MHz



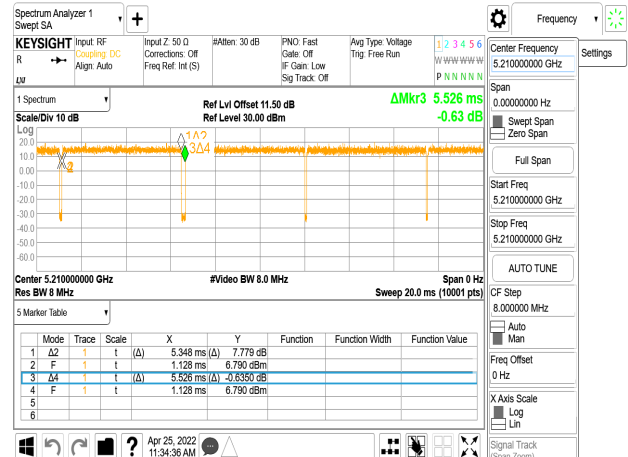
802.11ac\_40MHz\_Chain0\_5190MHz



802.11n\_40MHz\_Chain0\_5190MHz



802.11ac\_80MHz\_Chain0\_5210MHz

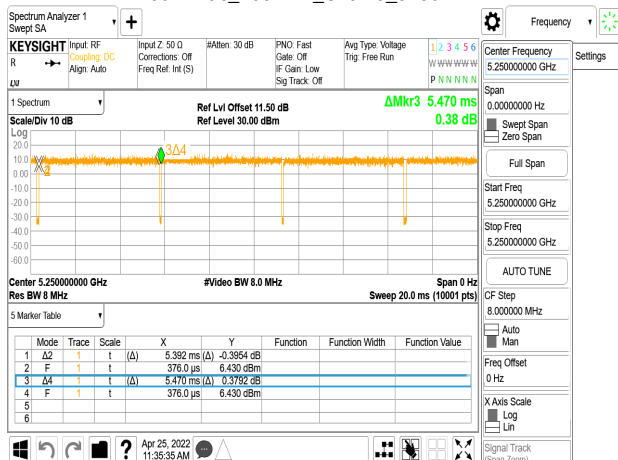


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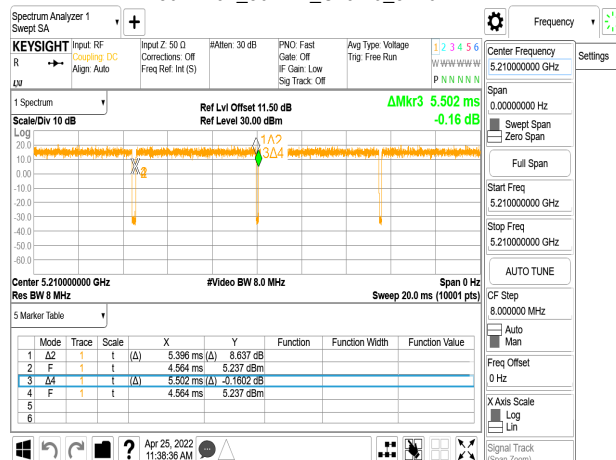
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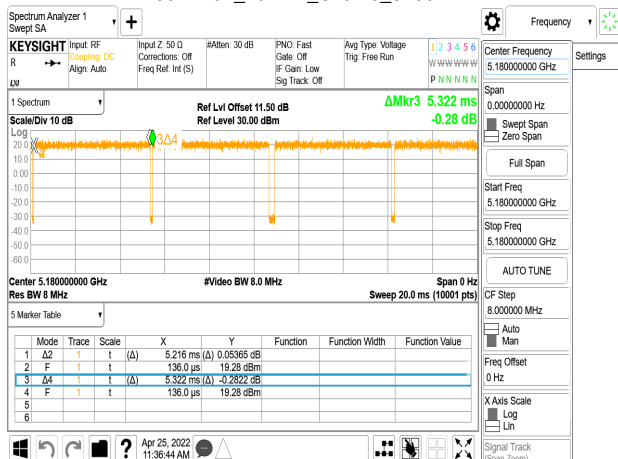
802.11ac\_160MHz\_Chain0\_5250MHz



802.11ax\_80MHz\_Chain0\_5210MHz



802.11ax\_20MHz\_Chain0\_5180MHz



802.11ax\_160MHz\_Chain0\_5250MHz



802.11ax\_40MHz\_Chain0\_5190MHz



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## 9.5 Output Power Measurement Result

### 9.5.1 FCC Output power

#### 802.11a\_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	19.5	19.29	84.998	30	PASS
44	5220	6	19.5	19.24	84.025	30	PASS
48	5240	6	19.5	19.21	83.447	30	PASS
149	5745	6	24	23.87	244.012	30	PASS
157	5785	6	24.5	23.84	242.332	30	PASS
165	5825	6	24.5	23.86	243.450	30	PASS

#### 802.11a\_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	19	19.37	86.579	30	PASS
44	5220	6	19	19.38	86.778	30	PASS
48	5240	6	19	19.34	85.983	30	PASS
149	5745	6	23.5	23.93	247.406	30	PASS
157	5785	6	23	23.89	245.138	30	PASS
165	5825	6	23	23.91	246.269	30	PASS

#### 802.11a\_Ch2

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	19.5	19.17	82.682	30	PASS
44	5220	6	19.5	20.62	115.454	30	PASS
48	5240	6	19.5	20.66	116.523	30	PASS
149	5745	6	24	23.75	237.362	30	PASS
157	5785	6	24.5	23.70	234.644	30	PASS
165	5825	6	24.5	23.76	237.909	30	PASS

#### 802.11a\_Ch3

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	19	19.22	83.639	30	PASS
44	5220	6	19	19.11	81.547	30	PASS
48	5240	6	19	19.06	80.614	30	PASS
149	5745	6	23.5	23.72	235.728	30	PASS
157	5785	6	23	23.77	238.457	30	PASS
165	5825	6	23	23.75	237.362	30	PASS

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## 802.11a\_4TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1	Ch2	Ch3				
36	5180	6	19.5	18.94	19.48	18.83	19.21	25.41	347.536	30	PASS
44	5220	6	20	18.97	19.51	18.87	19.22	25.43	349.140	30	PASS
48	5240	6	20	18.89	19.45	18.82	19.17	25.37	344.350	30	PASS
149	5745	6	24	23.43	23.88	23.21	23.69	29.84	963.829	30	PASS
157	5785	6	24	23.45	23.95	23.26	23.75	29.90	977.237	30	PASS
165	5825	6	24	23.49	23.99	23.35	23.78	29.94	986.279	30	PASS

## 802.11ac\_VHT20\_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	27	18.20	66.052	30	PASS
44	5220	MCS0	default	19.59	90.968	30	PASS
48	5240	MCS0	default	19.73	93.948	30	PASS
149	5745	MCS0	default	19.47	88.489	30	PASS
157	5785	MCS0	default	19.53	89.720	30	PASS
165	5825	MCS0	default	19.59	90.968	30	PASS

## 802.11ac\_VHT20\_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	27	18.28	67.280	30	PASS
44	5220	MCS0	default	20.29	106.878	30	PASS
48	5240	MCS0	default	20.38	109.116	30	PASS
149	5745	MCS0	default	20.22	105.169	30	PASS
157	5785	MCS0	default	20.25	105.898	30	PASS
165	5825	MCS0	default	20.28	106.632	30	PASS

## 802.11ac\_VHT20\_Ch2

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	27	18.10	64.549	30	PASS
44	5220	MCS0	default	19.32	85.485	30	PASS
48	5240	MCS0	default	19.45	88.082	30	PASS
149	5745	MCS0	default	19.35	86.077	30	PASS
157	5785	MCS0	default	19.34	85.879	30	PASS
165	5825	MCS0	default	19.42	87.476	30	PASS

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## 802.11ac\_VHT20\_Ch3

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	27	18.13	64.996	30	PASS
44	5220	MCS0	default	19.82	95.915	30	PASS
48	5240	MCS0	default	19.95	98.830	30	PASS
149	5745	MCS0	default	19.89	97.474	30	PASS
157	5785	MCS0	default	19.91	97.924	30	PASS
165	5825	MCS0	default	20.00	99.974	30	PASS

## 802.11ac\_VHT20\_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1	Ch2	Ch3				
36	5180	MCS0	27.5	18.03	18.68	17.85	18.35	24.34	271.644	30	PASS
44	5220	MCS0	default	19.65	20.32	19.38	19.85	25.91	389.942	30	PASS
48	5240	MCS0	default	19.77	20.43	19.48	19.97	26.03	400.867	30	PASS
149	5745	MCS0	default	19.5	20.2	19.4	19.94	25.87	386.367	30	PASS
157	5785	MCS0	default	19.56	20.23	19.41	19.97	25.90	389.045	30	PASS
165	5825	MCS0	default	19.64	20.25	19.48	20.07	25.97	395.367	30	PASS

## 802.11ac\_VHT40\_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	24	15.59	36.246	30	PASS
46	5230	MCS0	default	18.82	76.253	30	PASS
151	5755	MCS0	default	18.80	75.903	30	PASS
159	5795	MCS0	default	18.76	75.207	30	PASS

## 802.11ac\_VHT40\_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	24	15.69	37.090	30	PASS
46	5230	MCS0	default	19.52	89.590	30	PASS
151	5755	MCS0	default	19.37	86.548	30	PASS
159	5795	MCS0	default	19.44	87.955	30	PASS

## 802.11ac\_VHT40\_Ch2

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	24	15.47	35.258	30	PASS
46	5230	MCS0	default	18.59	72.320	30	PASS
151	5755	MCS0	default	18.69	74.005	30	PASS
159	5795	MCS0	default	18.54	71.492	30	PASS

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## 802.11ac\_VHT40\_Ch3

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	24	15.56	35.996	30	PASS
46	5230	MCS0	default	19.14	82.084	30	PASS
151	5755	MCS0	default	19.13	81.895	30	PASS
159	5795	MCS0	default	19.13	81.895	30	PASS

## 802.11ac\_VHT40\_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1	Ch2	Ch3				
38	5190	MCS0	24.5	15.41	15.97	15.16	15.65	21.72	148.594	30	PASS
46	5230	MCS0	default	18.79	19.49	18.58	19.14	25.18	329.610	30	PASS
151	5755	MCS0	default	18.76	19.38	18.66	19.11	25.15	327.341	30	PASS
159	5795	MCS0	default	18.75	19.41	18.55	19.12	25.13	325.837	30	PASS

## 802.11ac\_VHT80\_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	25.5	16.69	46.689	30	PASS
155	5775	MCS0	24.5	15.80	38.038	30	PASS

## 802.11ac\_VHT80\_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	25.5	16.79	47.777	30	PASS
155	5775	MCS0	24.5	15.86	38.567	30	PASS

## 802.11ac\_VHT80\_Ch2

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	25.5	16.56	45.312	30	PASS
155	5775	MCS0	24.5	15.68	37.001	30	PASS

## 802.11ac\_VHT80\_Ch3

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	25.5	16.65	46.261	30	PASS
155	5775	MCS0	0	15.74	37.516	30	PASS

## 802.11ac\_VHT80\_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1	Ch2	Ch3				
42	5210	MCS0	26	16.55	17.19	16.32	16.82	22.89	194.536	30	PASS
155	5775	MCS0	25	15.6	16.12	15.38	15.88	21.92	155.597	30	PASS

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## 802.11ax HE20\_Ch0

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	full	default	18.88	77.220	30	PASS
		MCS0	26/0	16	16.28	42.436	30	PASS
		MCS0	52/37	18.5	18.76	75.116	30	PASS
		MCS0	106/53	18	18.28	67.256	30	PASS
44	5220	MCS0	full	default	19.04	80.118	30	PASS
48	5240	MCS0	full	default	18.90	77.576	30	PASS
149	5745	MCS0	full	default	19.05	80.303	30	PASS
		MCS0	26/0	19	19.02	79.750	30	PASS
		MCS0	52/37	19	18.85	76.688	30	PASS
		MCS0	106/53	19	18.88	77.220	30	PASS
157	5785	MCS0	full	default	19.13	81.796	30	PASS
165	5825	MCS0	full	default	18.90	77.576	30	PASS
		MCS0	26/8	19	18.86	76.865	30	PASS
		MCS0	52/40	19	18.84	76.512	30	PASS
		MCS0	106/54	19	18.80	75.811	30	PASS

## 802.11ax HE20\_Ch1

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	full	default	19.64	91.988	30	PASS
		MCS0	26/0	16	16.39	43.524	30	PASS
		MCS0	52/37	18.5	18.85	76.688	30	PASS
		MCS0	106/53	18	18.26	66.947	30	PASS
44	5220	MCS0	full	default	19.51	89.275	30	PASS
48	5240	MCS0	full	default	19.57	90.517	30	PASS
149	5745	MCS0	full	default	19.76	94.565	30	PASS
		MCS0	26/0	19	19.71	93.482	30	PASS
		MCS0	52/37	19	19.64	91.988	30	PASS
		MCS0	106/53	19	19.67	92.625	30	PASS
157	5785	MCS0	full	default	19.63	91.776	30	PASS
165	5825	MCS0	full	default	19.55	90.101	30	PASS
		MCS0	26/8	19	19.52	89.481	30	PASS
		MCS0	52/40	19	19.56	90.309	30	PASS
		MCS0	106/54	19	19.54	89.894	30	PASS

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## 802.11ax HE20 Ch2

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	full	default	18.73	74.598	30	PASS
		MCS0	26/0	16	16.17	41.374	30	PASS
		MCS0	52/37	18.5	18.63	72.900	30	PASS
		MCS0	106/53	18	18.19	65.876	30	PASS
44	5220	MCS0	full	default	18.73	74.598	30	PASS
48	5240	MCS0	full	default	18.71	74.256	30	PASS
149	5745	MCS0	full	default	18.89	77.398	30	PASS
		MCS0	26/0	19	18.84	76.512	30	PASS
		MCS0	52/37	19	18.77	75.289	30	PASS
		MCS0	106/53	19	18.81	75.985	30	PASS
157	5785	MCS0	full	default	19.00	79.383	30	PASS
165	5825	MCS0	full	default	18.91	77.755	30	PASS
		MCS0	26/8	19	18.88	77.220	30	PASS
		MCS0	52/40	19	18.84	76.512	30	PASS
		MCS0	106/54	19	18.82	76.160	30	PASS

## 802.11ax HE20 Ch3

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	full	default	19.21	83.316	30	PASS
		MCS0	26/0	16	16.29	42.533	30	PASS
		MCS0	52/37	18.5	18.71	74.256	30	PASS
		MCS0	106/53	18	18.20	66.028	30	PASS
44	5220	MCS0	full	default	19.24	83.894	30	PASS
48	5240	MCS0	full	default	19.22	83.508	30	PASS
149	5745	MCS0	full	default	19.44	87.848	30	PASS
		MCS0	26/0	19	19.40	87.042	30	PASS
		MCS0	52/37	19	16.33	42.927	30	PASS
		MCS0	106/53	19	19.36	86.244	30	PASS
157	5785	MCS0	full	default	19.42	87.444	30	PASS
165	5825	MCS0	full	default	19.34	85.848	30	PASS
		MCS0	26/8	19	18.98	79.019	30	PASS
		MCS0	52/40	19	18.95	78.475	30	PASS
		MCS0	106/54	19	18.90	77.576	30	PASS

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## 802.11ax HE20 MIMO

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1	Ch2	Ch3				
36	5180	MCS0	full	default	18.91	19.65	18.79	19.23	25.27	336.512	30	PASS
		MCS0	26/0	16.5	16.16	16.85	15.95	16.45	22.47	176.604	30	PASS
		MCS0	52/37	18.5	18.6	19.21	18.34	18.95	24.90	309.030	30	PASS
		MCS0	106/53	18	18.09	18.66	17.75	18.31	24.32	270.396	30	PASS
44	5220	MCS0	full	default	19.02	19.56	18.79	19.3	25.29	338.065	30	PASS
48	5240	MCS0	full	default	18.92	19.61	18.8	19.27	25.27	336.512	30	PASS
149	5745	MCS0	full	default	19.09	19.81	18.91	19.47	25.44	349.945	30	PASS
		MCS0	26/0	19	19.07	19.77	18.87	19.42	25.40	346.737	30	PASS
		MCS0	52/37	18.5	19.02	19.7	18.78	19.35	25.33	341.193	30	PASS
		MCS0	106/53	18.5	19.05	19.74	18.82	19.38	25.37	344.350	30	PASS
157	5785	MCS0	full	default	19.21	19.67	18.98	19.45	25.44	349.945	30	PASS
165	5825	MCS0	full	default	18.93	19.59	18.8	19.37	25.29	338.065	30	PASS
		MCS0	26/8	19	18.89	19.56	18.77	19.35	25.26	335.738	30	PASS
		MCS0	52/40	19	18.84	19.52	18.73	19.32	25.22	332.660	30	PASS
		MCS0	106/54	19	18.8	19.47	18.7	19.29	25.18	329.610	30	PASS

## 802.11ax HE40\_Ch0

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	full	24.5	16.72	46.973	30	PASS
		MCS0	242/61	16.5	16.21	41.768	30	PASS
46	5230	MCS0	full	default	18.91	77.776	30	PASS
151	5755	MCS0	full	default	18.95	78.496	30	PASS
		MCS0	242/61	19.5	18.90	77.597	30	PASS
159	5795	MCS0	full	default	18.83	76.357	30	PASS
		MCS0	242/62	19.5	18.80	75.831	30	PASS

## 802.11ax HE40\_Ch1

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	full	24.5	16.80	47.846	30	PASS
		MCS0	242/61	16	16.30	42.643	30	PASS
46	5230	MCS0	full	default	19.75	94.373	30	PASS
151	5755	MCS0	full	default	19.71	93.508	30	PASS
		MCS0	242/61	19	19.50	89.094	30	PASS
159	5795	MCS0	full	default	19.79	95.246	30	PASS
		MCS0	242/62	19.5	19.63	91.801	30	PASS

## 802.11ax HE40\_Ch2

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	full	24.5	16.58	45.483	30	PASS
		MCS0	242/61	16.5	16.17	41.385	30	PASS
46	5230	MCS0	full	default	18.76	75.136	30	PASS
151	5755	MCS0	full	default	18.68	73.765	30	PASS
		MCS0	242/61	19.5	18.63	72.920	30	PASS
159	5795	MCS0	full	default	18.71	74.276	30	PASS
		MCS0	242/62	19.5	18.77	75.309	30	PASS

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## 802.11ax\_HE40\_Ch3

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	full	24.5	16.67	46.435	30	PASS
		MCS0	242/61	16	16.19	41.576	30	PASS
46	5230	MCS0	full	default	19.22	83.531	30	PASS
151	5755	MCS0	full	default	19.26	84.304	30	PASS
		MCS0	242/61	19	19.22	83.531	30	PASS
159	5795	MCS0	full	default	19.19	82.956	30	PASS
		MCS0	242/62	19	19.14	82.006	30	PASS

## 802.11ax\_HE40\_MIMO

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1	Ch2	Ch3				
38	5190	MCS0	full	25	16.64	17.29	16.37	16.81	22.86	193.197	30	PASS
		MCS0	242/61	16.5	16.25	16.95	15.98	16.51	22.51	178.238	30	PASS
46	5230	MCS0	full	default	18.97	19.81	18.83	19.31	25.32	340.408	30	PASS
151	5755	MCS0	full	default	19.04	19.78	18.77	19.35	25.32	340.408	30	PASS
		MCS0	242/61	19	19.12	19.62	18.87	19.2	25.28	337.287	30	PASS
159	5795	MCS0	full	default	18.93	19.88	18.81	19.28	25.31	339.625	30	PASS
		MCS0	242/62	19	18.87	19.83	18.75	19.24	25.26	335.738	30	PASS

## 802.11ax\_HE80\_Ch0

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	full	26.5	17.71	59.083	30	PASS
		MCS0	484/65	14	13.69	23.413	30	PASS
155	5775	MCS0	full	25	15.69	37.108	30	PASS
		MCS0	484/65	16	15.64	36.683	30	PASS
		MCS0	484/66	16	15.67	36.937	30	PASS

## 802.11ax\_HE80\_Ch1

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	full	26.5	17.78	60.043	30	PASS
		MCS0	484/65	13.5	13.80	24.014	30	PASS
155	5775	MCS0	full	25	15.76	37.711	30	PASS
		MCS0	484/65	15.5	15.69	37.108	30	PASS
		MCS0	484/66	15.5	15.73	37.451	30	PASS

## 802.11ax\_HE80\_Ch2

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	full	26.5	17.59	57.473	30	PASS
		MCS0	484/65	14	13.57	22.775	30	PASS
155	5775	MCS0	full	25	15.55	35.931	30	PASS
		MCS0	484/65	16	15.51	35.601	30	PASS
		MCS0	484/66	16	15.53	35.765	30	PASS

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## 802.11ax HE80 Ch3

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	full	26.5	17.67	58.541	30	PASS
		MCS0	484/65	13.5	13.68	23.360	30	PASS
155	5775	MCS0	full	25	15.62	36.514	30	PASS
		MCS0	484/65	15.5	15.56	36.013	30	PASS
		MCS0	484/66	15.5	15.58	36.180	30	PASS

## 802.11ax HE80 MIMO

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1	Ch2	Ch3				
42	5210	MCS0	full	27	17.52	18.32	17.35	17.88	23.89	244.906	30	PASS
		MCS0	484/65	14.5	13.65	14.24	13.41	13.84	19.90	97.724	30	PASS
155	5775	MCS0	full	25.5	15.57	16.17	15.36	15.79	21.84	152.757	30	PASS
		MCS0	484/65	16	15.52	16.12	15.31	15.72	21.78	150.661	30	PASS
		MCS0	484/66	16	15.55	16.14	15.34	15.75	21.81	151.705	30	PASS

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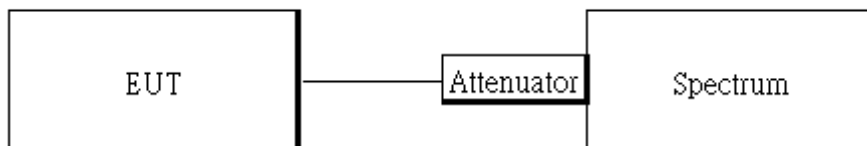
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## 10 MAXIMUM POWER SPECTRAL DENSITY

### 10.1 Standard Applicable

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

### 10.2 Test Setup



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### 10.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**  
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (1001 pts), Detector = power averaging (rms), if available. Otherwise, use sample detector mode, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)  
**For U-NII-3 Band:**  
Set RBW=300kHz, VBW=1MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto, detector = RMS or sample, traces 100 sweeps of video averaging.  
In addition, measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500 kHz/RBW) to the measured result.
5. Use the cursor on spectrum to peak search the highest level of trace
6. 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. MIMO mode: offset is set with "measure and add 10 Log (N)" to measurement for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna, cable loss is specified below.

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

**Note:**

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

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

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

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.

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## 10.4 Measurement Result

POWER DENSITY 802.11a MODE									
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Ch2 meas PSD (dBm/MHz)	Ch3 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	8.667	9.445	8.942	9.269	0.260	15.37		17.00 dBm/MHz	-1.63
5220	10.255	10.722	10.220	10.271	0.260	16.65		17.00 dBm/MHz	-0.35
5240	9.536	10.907	9.699	10.931	0.260	16.60		17.00 dBm/MHz	-0.40
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Ch2 meas PSD (dBm/300kHz)	Ch3 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5745	7.228	8.358	8.730	8.068	0.260	2.22	16.63	30.00 dBm/500kHz	-13.37
5785	8.229	8.159	8.194	7.582	0.260	2.22	16.55	30.00 dBm/500kHz	-13.45
5825	7.533	7.734	7.307	7.120	0.260	2.22	15.93	30.00 dBm/500kHz	-14.07
POWER DENSITY 802.11ac VHT20 MODE									
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Ch2 meas PSD (dBm/MHz)	Ch3 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	6.889	7.708	7.170	6.228	0.000	13.05		17.00 dBm/MHz	-3.95
5220	6.175	7.407	7.935	7.009	0.000	13.20		17.00 dBm/MHz	-3.80
5240	7.484	8.454	7.768	7.476	0.000	13.83		17.00 dBm/MHz	-3.17
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Ch2 meas PSD (dBm/300kHz)	Ch3 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5745	2.098	1.118	1.381	1.479	0.000	2.22	9.77	30.00 dBm/500kHz	-20.23
5785	1.050	1.056	0.678	1.000	0.000	2.22	9.19	30.00 dBm/500kHz	-20.81
5825	3.650	3.146	3.543	2.843	0.000	2.22	11.55	30.00 dBm/500kHz	-18.45
POWER DENSITY 802.11ac VHT40 MODE									
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Ch2 meas PSD (dBm/MHz)	Ch3 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5190	0.445	0.926	0.312	0.878	0.000	6.67		17.00 dBm/MHz	-10.33
5230	2.002	2.844	3.558	3.024	0.000	8.91		17.00 dBm/MHz	-8.09
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Ch2 meas PSD (dBm/300kHz)	Ch3 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5755	-1.403	-1.225	-0.826	-1.303	0.000	2.22	7.06	30.00 dBm/500kHz	-22.94
5795	-1.794	-0.734	-1.808	-1.428	0.000	2.22	6.82	30.00 dBm/500kHz	-23.18
POWER DENSITY 802.11ac VHT80 MODE									
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Ch2 meas PSD (dBm/MHz)	Ch3 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5210	-0.980	-0.401	-0.934	-0.117	0.14	5.57		17.00 dBm/MHz	-11.43
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Ch2 meas PSD (dBm/300kHz)	Ch3 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5775	-6.392	-5.823	-5.038	-4.276	0.14	2.22	3.07	30.00 dBm/500kHz	-26.93

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POWER DENSITY 802.11ax HE20 MODE										
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Ch2 meas PSD (dBm/MHz)	Ch3 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	full	5.333	5.871	2.649	4.062	0.00	10.67		17.00 dBm/MHz	-6.33
	26/0	10.630	10.433	10.802	11.285	0.00	16.82		17.00 dBm/MHz	-0.18
	52/37	9.727	10.936	10.971	10.743	0.00	16.64		17.00 dBm/MHz	-0.36
	106/53	9.992	10.697	10.905	11.186	0.00	16.74		17.00 dBm/MHz	-0.26
5220	full	11.038	10.429	7.740	11.735	0.00	16.19		17.00 dBm/MHz	-0.81
5240	full	3.816	7.186	3.309	4.193	0.00	10.94		17.00 dBm/MHz	-6.06
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Ch2 meas PSD (dBm/300kHz)	Ch3 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5745	full	-0.836	2.792	-1.321	0.606	0.00	2.22	8.86	30.00 dBm/500kHz	-21.14
	26/0	11.909	13.107	13.259	12.509	0.00	2.22	20.97	30.00 dBm/500kHz	-9.03
	52/37	11.483	13.267	13.226	11.994	0.00	2.22	20.80	30.00 dBm/500kHz	-9.20
	106/53	8.989	10.014	10.727	9.501	0.00	2.22	18.10	30.00 dBm/500kHz	-11.90
5785	full	0.447	3.559	-1.000	-0.385	0.00	2.22	9.28	30.00 dBm/500kHz	-20.72
5825	full	-0.786	1.359	-1.187	0.095	0.00	2.22	8.22	30.00 dBm/500kHz	-21.78
	26/8	11.842	11.903	12.192	11.673	0.00	2.22	20.14	30.00 dBm/500kHz	-9.86
	52/40	12.531	12.145	11.954	11.359	0.00	2.22	20.26	30.00 dBm/500kHz	-9.74
	106/54	9.434	9.041	9.503	9.022	0.00	2.22	17.50	30.00 dBm/500kHz	-12.50
POWER DENSITY 802.11ax HE40 MODE										
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Ch2 meas PSD (dBm/MHz)	Ch3 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5190	full	-0.033	1.066	0.723	-0.992	0.00	6.28		17.00 dBm/MHz	-10.72
	242/61	5.288	5.497	4.934	6.003	0.00	11.47		17.00 dBm/MHz	-5.53
5230	full	-0.113	1.526	-1.256	0.569	0.00	6.32		17.00 dBm/MHz	-10.68
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Ch2 meas PSD (dBm/300kHz)	Ch3 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5755	full	-4.542	-2.352	-7.052	-3.975	0.00	2.22	4.07	30.00 dBm/500kHz	-25.93
	242/61	2.393	2.704	3.364	2.083	0.00	2.22	10.90	30.00 dBm/500kHz	-19.10
5795	full	-4.786	-2.498	-4.117	-3.122	0.00	2.22	4.70	30.00 dBm/500kHz	-25.30
	242/62	5.270	5.130	6.086	5.297	0.00	2.22	13.70	30.00 dBm/500kHz	-16.30
POWER DENSITY 802.11ax HE80 MODE										
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Ch2 meas PSD (dBm/MHz)	Ch3 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5210	full	-2.826	-0.871	-4.589	-1.673	0.00	3.74		17.00 dBm/MHz	-13.26
	484/65	-5.354	-4.436	-4.732	-6.089	0.00	0.91		17.00 dBm/MHz	-16.09
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Ch2 meas PSD (dBm/300kHz)	Ch3 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5775	full	-7.256	-5.745	-9.530	-7.888	0.00	2.22	0.84	30.00 dBm/500kHz	-29.16
	484/65	-5.031	-2.742	-4.846	-5.434	0.00	2.22	3.86	30.00 dBm/500kHz	-26.14
	484/66	-4.424	-3.151	-5.351	-4.905	0.00	2.22	3.86	30.00 dBm/500kHz	-26.14

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