



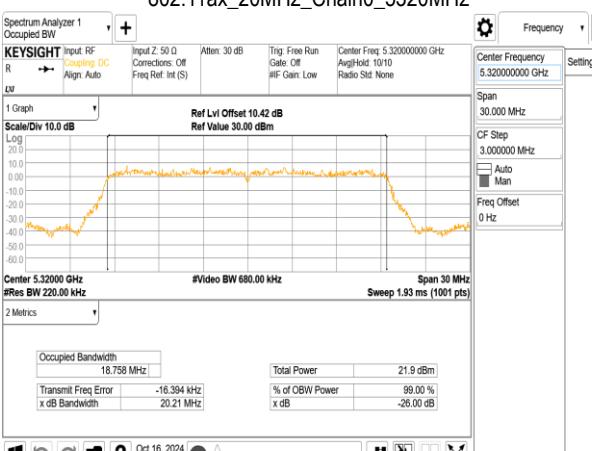
## 802.11ax\_20MHz\_Chain0\_5300MHz



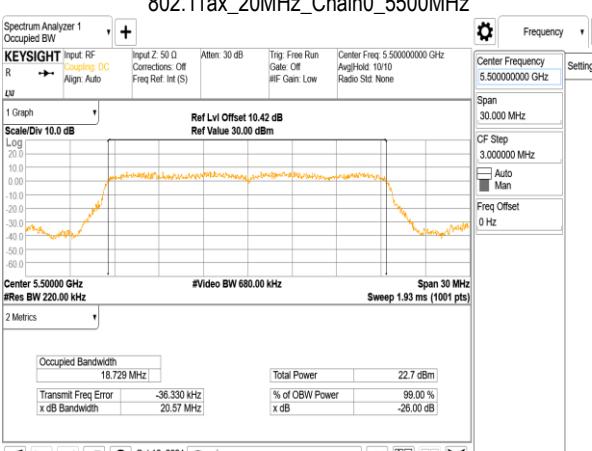
## 802.11ax\_20MHz\_Chain0\_5580MHz



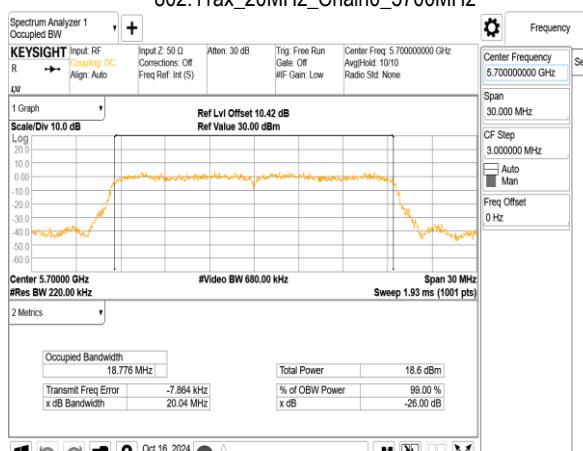
## 802.11ax\_20MHz\_Chain0\_5320MHz



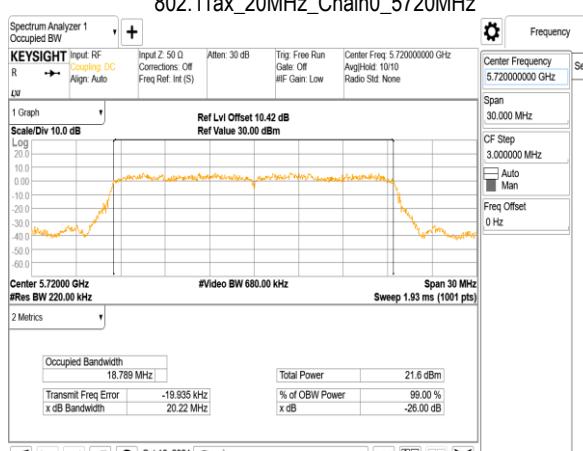
## 802.11ax\_20MHz\_Chain0\_5500MHz



## 802.11ax\_20MHz\_Chain0\_5700MHz



## 802.11ax\_20MHz\_Chain0\_5720MHz



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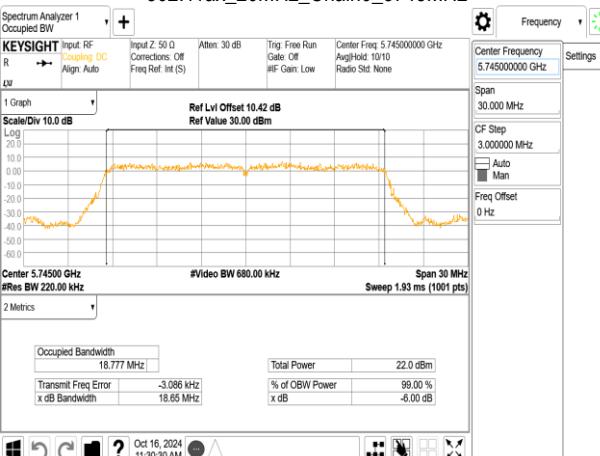
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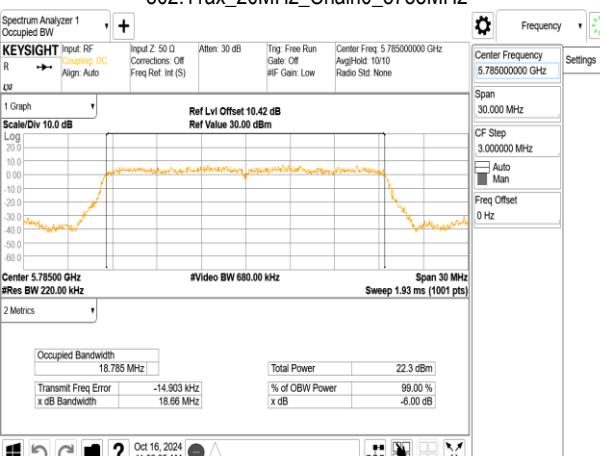
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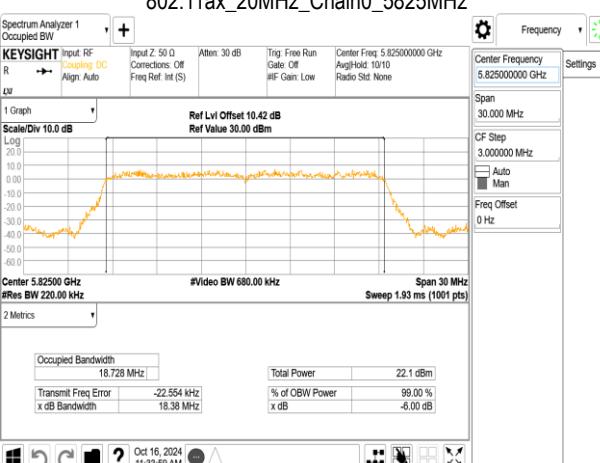
## 802.11ax\_20MHz\_Chain0\_5745MHz



## 802.11ax\_20MHz\_Chain0\_5785MHz



## 802.11ax\_20MHz\_Chain0\_5825MHz



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## 9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

### 9.1 Standard Applicable

#### 9.1.1 Duty Cycle

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

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

#### 9.1.2 FCC

Band	EUT CATEGORY	e-CRF Title 47 §15.407			
		Conducted Output Power	EIRP	TPC	Antenna Directional Gain Requirements
U-NII-1	Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	23dBi
	Outdoor AP	1 Watt(30dBm)	Elevation angle above 30 degrees 125mW (21dBm)	Not required	6dBi
	Indoor AP	1 Watt(30dBm)	Not required	Not required	6dBi
	V Other	250mW(23.98dBm)	Not required	Not required	6dBi
U-NII-2A	V Other	250mW(23.98dBm) or 11dBm+10 log B	Not required	When EIRP >500mW At least 6dB below EIRP 1W (30dBm)	6dBi
U-NII-2C	V Other	250mW(23.98dBm) or 11dBm+10 log B	Not required		6dBi
U-NII-3	V Other	1 Watt(30dBm)	Not required	Not required	6dBi
	Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	Not required
U-NII-4	Indoor AP (a channel spans 5725~5850 and 5850~5895MHz)	Not required	36dBm	Not required	Not required
	Indoor client (a channel spans 5725~5850 and 5850~5895MHz)	Not required	30dBm	Not required	Not required
	Subordinate device	Not required	36dBm	Not required	Not required
1. If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna. 2. For the 10 log B, B is the 26 dB emission bandwidth.					

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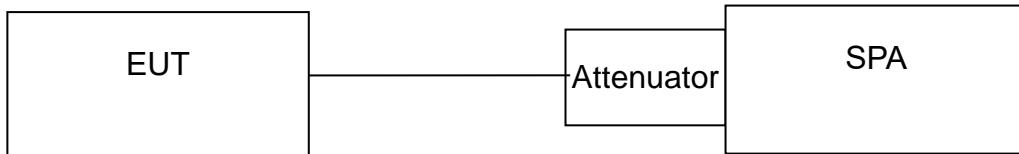
### 9.1.3 ISED

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

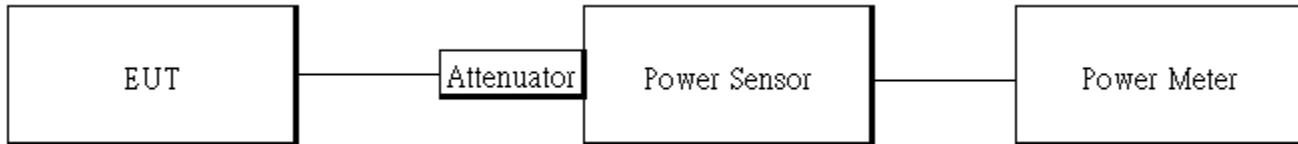
1 For equipment operating in the band 5725-5850 MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.  
 2. For the 10 log B, B is the 99% emission bandwidth.

### 9.2 Test Setup

#### 9.2.1 Duty Cycle



#### 9.2.2 Output Power



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## 9.3 Measurement Procedure

### 9.3.1 Duty Cycle Measurements

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

### 9.3.2 Output Power Measurements

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add  $10 \log(1/\text{duty cycle})$ .
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

#### Note:

For U-NII1, 2A, 2C and 3 Bands, when the antenna gain is greater than 6 dBi, the power limit attenuated accordingly.

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## 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		99.31	0.03	0.70	0.01
802.11n_20		99.41	0.03	0.75	0.01
802.11ac_20		99.41	0.03	0.74	0.01
Mode	RU Config	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log ( 1/Duty Cycle )	1/T (kHz)	VBW setting (kHz)
802.11ax_20	SU	99.24	0.03	0.96	0.01
	RU	95.50	0.20	0.74	1.00
	26 RU	95.50	0.20	0.74	1.00
	52 RU	95.50	0.20	0.74	1.00
	106 RU	95.50	0.20	0.74	1.00

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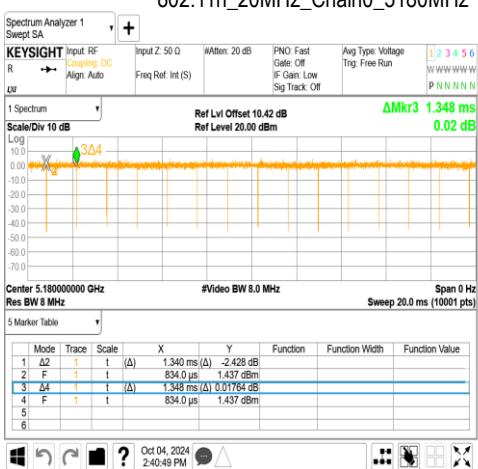
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## 802.11a\_20MHz\_Chain0\_5180MHz



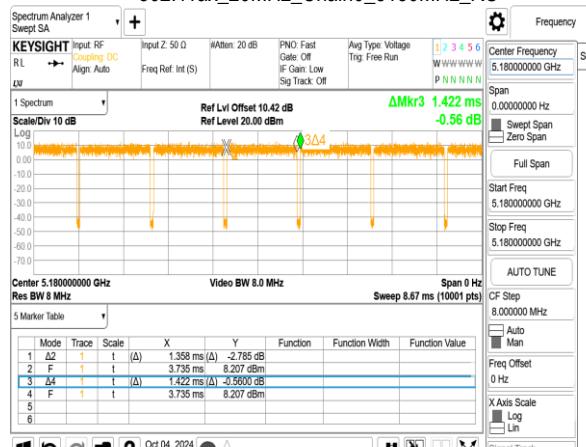
## 802.11n\_20MHz\_Chain0\_5180MHz



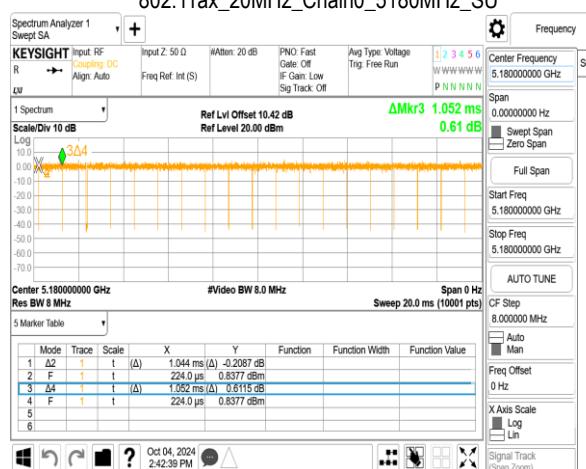
## 802.11ac\_20MHz\_Chain0\_5180MHz



## 802.11ax\_20MHz\_Chain0\_5180MHz\_RU



## 802.11ax\_20MHz\_Chain0\_5180MHz\_SU



## 802.11ax\_20MHz\_Chain0\_5180MHz\_RU26\_0



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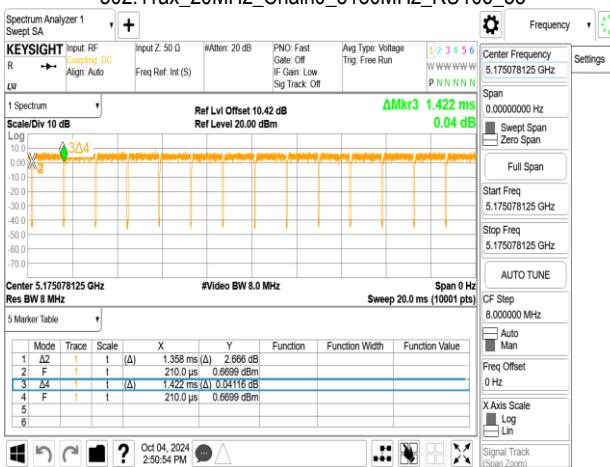
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## 802.11ax\_20MHz\_Chain0\_5180MHz\_RU52\_37



## 802.11ax\_20MHz\_Chain0\_5180MHz\_RU106\_53



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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 Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	19	62.374	<b>17.95</b>	23.98	PASS
44	5220	6	19	61.945	17.92	23.98	PASS
48	5240	6	19	59.704	17.76	23.98	PASS
52	5260	6	19	59.842	<b>17.77</b>	23.98	PASS
60	5300	6	19.5	58.345	17.66	23.98	PASS
64	5320	6	19.5	57.678	17.61	23.98	PASS
100	5500	6	19.5	56.625	17.53	23.98	PASS
116	5580	6	19.5	59.293	<b>17.73</b>	23.98	PASS
140	5700	6	21	58.750	17.69	23.98	PASS
144	5720(U-NII 2C)	6	21.5	47.055	16.73	22.73	PASS
144	5720 (U-NII 3)	6	21.5	15.464	11.89	30	PASS
149	5745	6	20.5	59.980	17.78	30	PASS
157	5785	6	21	61.803	<b>17.91</b>	30	PASS
165	5825	6	21	60.814	17.84	30	PASS

802.11n\_HT20\_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	17	36.105	15.58	23.98	PASS
44	5220	MCS0	18.5	49.269	<b>16.93</b>	23.98	PASS
48	5240	MCS0	18.5	48.705	16.88	23.98	PASS
52	5260	MCS0	18.5	49.382	<b>16.94</b>	23.98	PASS
60	5300	MCS0	18.5	45.454	16.58	23.98	PASS
64	5320	MCS0	18	39.135	15.93	23.98	PASS
100	5500	MCS0	19	48.705	<b>16.88</b>	23.98	PASS
116	5580	MCS0	19	46.620	16.69	23.98	PASS
140	5700	MCS0	18	29.962	14.77	23.98	PASS
144	5720(U-NII 2C)	MCS0	20	34.994	15.44	23.98	PASS
144	5720 (U-NII 3)	MCS0	20	10.043	10.02	30	PASS
149	5745	MCS0	19.5	47.596	16.78	30	PASS
157	5785	MCS0	20	48.705	<b>16.88</b>	30	PASS
165	5825	MCS0	20	47.051	16.73	30	PASS

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802.11ac\_VHT20\_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	17	36.523	15.63	23.98	PASS
44	5220	MCS0	18.5	49.610	<b>16.96</b>	23.98	PASS
48	5240	MCS0	18.5	49.382	16.94	23.98	PASS
52	5260	MCS0	18.5	49.610	<b>16.96</b>	23.98	PASS
60	5300	MCS0	18.5	48.481	16.86	23.98	PASS
64	5320	MCS0	18	39.407	15.96	23.98	PASS
100	5500	MCS0	18.5	49.042	<b>16.91</b>	23.98	PASS
116	5580	MCS0	18.5	46.727	16.70	23.98	PASS
140	5700	MCS0	18	30.379	14.83	23.98	PASS
144	5720(U-NII 2C)	MCS0	18.5	36.169	15.58	23.98	PASS
144	5720 (U-NII 3)	MCS0	18.5	12.089	10.82	30	PASS
149	5745	MCS0	18.5	48.705	16.88	30	PASS
157	5785	MCS0	18.5	49.042	<b>16.91</b>	30	PASS
165	5825	MCS0	18.5	48.481	16.86	30	PASS

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## 802.11ax\_HE20\_Ch0

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	SU	17	39.202	15.93	23.98	PASS
		MCS0	RU	17	38.815	15.89	23.98	PASS
		MCS0	26/0	13	15.631	11.94	23.98	PASS
		MCS0	26/8	13	15.452	11.89	23.98	PASS
		MCS0	52/37	16	30.974	14.91	23.98	PASS
		MCS0	52/40	16	30.619	14.86	23.98	PASS
		MCS0	106/53	17	38.459	15.85	23.98	PASS
		MCS0	106/54	17	38.106	15.81	23.98	PASS
44	5220	MCS0	SU	18	49.013	16.90	23.98	PASS
		MCS0	RU	18	47.315	16.75	23.98	PASS
48	5240	MCS0	SU	18	46.165	16.64	23.98	PASS
		MCS0	RU	17	45.919	16.62	23.98	PASS
52	5260	MCS0	SU	18	48.564	16.86	23.98	PASS
		MCS0	RU	18	47.973	16.81	23.98	PASS
60	5300	MCS0	SU	18.5	47.458	16.76	23.98	PASS
		MCS0	RU	18	46.881	16.71	23.98	PASS
64	5320	MCS0	SU	17.5	39.474	15.96	23.98	PASS
		MCS0	RU	17.5	38.904	15.90	23.98	PASS
		MCS0	26/0	12.5	15.101	11.79	23.98	PASS
		MCS0	26/8	12.5	14.859	11.72	23.98	PASS
		MCS0	52/37	16	29.241	14.66	23.98	PASS
		MCS0	52/40	16	28.708	14.58	23.98	PASS
		MCS0	106/53	17.5	37.497	15.74	23.98	PASS
		MCS0	106/54	17.5	38.282	15.83	23.98	PASS
100	5500	MCS0	SU	18.5	45.847	16.61	23.98	PASS
		MCS0	RU	18	45.185	16.55	23.98	PASS
		MCS0	26/0	13	14.997	11.76	23.98	PASS
		MCS0	26/8	13	15.135	11.80	23.98	PASS
		MCS0	52/37	16	29.309	14.67	23.98	PASS
		MCS0	52/40	16	29.716	14.73	23.98	PASS
		MCS0	106/53	18	45.081	16.54	23.98	PASS
		MCS0	106/54	18	45.708	16.60	23.98	PASS
116	5580	MCS0	SU	19	47.132	16.73	23.98	PASS
		MCS0	RU	18.5	46.989	16.72	23.98	PASS
140	5700	MCS0	SU	18.5	31.211	14.94	23.98	PASS
		MCS0	RU	18.5	30.903	14.90	23.98	PASS
		MCS0	26/0	13	15.135	11.80	23.98	PASS
		MCS0	26/8	13	14.928	11.74	23.98	PASS
		MCS0	52/37	16.5	24.717	13.93	23.98	PASS
		MCS0	52/40	16.5	24.266	13.85	23.98	PASS
		MCS0	106/53	17.5	30.479	14.84	23.98	PASS
		MCS0	106/54	17.5	30.832	14.89	23.98	PASS
144	5720(U-NII 2C)	MCS0	RU	20	34.262	15.35	23.98	PASS
144	5720 (U-NII 3)	MCS0	SU	19.5	34.158	15.33	23.98	PASS
149	5745	MCS0	RU	20	11.691	10.68	30	PASS
		MCS0	SU	19.5	11.656	10.67	30	PASS
		MCS0	SU	19.5	48.341	16.84	30	PASS
		MCS0	RU	19	47.973	16.81	30	PASS
		MCS0	26/0	14	15.667	11.95	30	PASS
		MCS0	26/8	14	15.452	11.89	30	PASS
		MCS0	52/37	17	30.479	14.84	30	PASS
		MCS0	52/40	17	30.061	14.78	30	PASS
157	5785	MCS0	106/53	18.5	45.081	16.54	30	PASS
		MCS0	106/54	18.5	48.084	16.82	30	PASS
165	5825	MCS0	SU	20	49.581	16.95	30	PASS
		MCS0	RU	19.5	49.090	16.91	30	PASS
		MCS0	SU	20	48.119	16.82	30	PASS
		MCS0	RU	19.5	47.643	16.78	30	PASS
		MCS0	26/0	14	14.962	11.75	30	PASS
		MCS0	26/8	14	14.723	11.68	30	PASS
		MCS0	52/37	17	29.922	14.76	30	PASS
		MCS0	52/40	17	29.376	14.68	30	PASS
		MCS0	106/53	19.5	47.753	16.79	30	PASS
		MCS0	106/54	19.5	47.206	16.74	30	PASS

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### 9.5.2 ISED Conducted output power and EIRP

#### 802.11a\_Ch0

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
52	5260	<b>59.842</b>	<b>17.77</b>	23.21	PASS
60	5300	58.345	17.66	23.21	PASS
64	5320	57.678	17.61	23.21	PASS
100	5500	56.625	17.53	23.20	PASS
116	5580	<b>59.293</b>	<b>17.73</b>	23.21	PASS
140	5700	58.750	17.69	23.20	PASS
144	5720(U-NII 2C)	47.055	16.73	22.24	PASS
144	5720 (U-NII 3)	15.464	11.89	30	PASS
149	5745	59.980	17.78	30	PASS
157	5785	<b>61.803</b>	<b>17.91</b>	30	PASS
165	5825	60.814	17.84	30	PASS

#### 802.11n\_HT20\_Ch0

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
52	5260	<b>49.382</b>	<b>16.94</b>	23.98	PASS
60	5300	45.454	16.58	23.98	PASS
64	5320	39.135	15.93	23.98	PASS
100	5500	<b>48.705</b>	<b>16.88</b>	23.98	PASS
116	5580	46.620	16.69	23.98	PASS
140	5700	29.962	14.77	23.98	PASS
144	5720(U-NII 2C)	34.994	15.44	22.41	PASS
144	5720 (U-NII 3)	10.043	10.02	30	PASS
149	5745	47.596	16.78	30	PASS
157	5785	<b>48.705</b>	<b>16.88</b>	30	PASS
165	5825	47.051	16.73	30	PASS

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## 802.11ac\_VHT20\_Ch0

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
52	5260	<b>49.610</b>	<b>16.96</b>	23.98	PASS
60	5300	48.481	16.86	23.98	PASS
64	5320	39.407	15.96	23.98	PASS
100	5500	<b>49.042</b>	<b>16.91</b>	23.98	PASS
116	5580	46.727	16.70	23.98	PASS
140	5700	30.379	14.83	23.98	PASS
144	5720(U-NII 2C)	36.169	15.58	22.41	PASS
144	5720 (U-NII 3)	12.089	10.82	30	PASS
149	5745	48.705	16.88	30	PASS
157	5785	<b>49.042</b>	<b>16.91</b>	30	PASS
165	5825	48.481	16.86	30	PASS

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## 802.11ax\_HE20\_Ch0

CH	Frequency (MHz)	RU config.	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
52	5260	SU	<b>48.564</b>	<b>16.86</b>	23.98	PASS
		RU	47.973	16.81	23.98	PASS
60	5300	SU	47.458	16.76	23.98	PASS
		RU	46.881	16.71	23.98	PASS
64	5320	SU	39.474	15.96	23.98	PASS
		RU	38.904	15.90	23.98	PASS
		26/0	15.101	11.79	23.98	PASS
		26/8	14.859	11.72	23.98	PASS
		52/37	29.241	14.66	23.98	PASS
		52/40	28.708	14.58	23.98	PASS
		106/53	37.497	15.74	23.98	PASS
		106/54	38.282	15.83	23.98	PASS
		SU	45.847	16.61	23.98	PASS
100	5500	RU	45.185	16.55	23.98	PASS
		26/0	14.997	11.76	23.98	PASS
		26/8	15.135	11.80	23.98	PASS
		52/37	29.309	14.67	23.98	PASS
		52/40	29.716	14.73	23.98	PASS
		106/53	45.081	16.54	23.98	PASS
		106/54	45.708	16.60	23.98	PASS
		SU	<b>47.132</b>	<b>16.73</b>	23.98	PASS
116	5580	RU	46.989	16.72	23.98	PASS
140	5700	SU	31.211	14.94	23.98	PASS
		RU	30.903	14.90	23.98	PASS
		26/0	15.135	11.80	23.98	PASS
		26/8	14.928	11.74	23.98	PASS
		52/37	24.717	13.93	23.98	PASS
		52/40	24.266	13.85	23.98	PASS
		106/53	30.479	14.84	23.98	PASS
		106/54	30.832	14.89	23.98	PASS
144	5720(U-NII 2C)	SU	34.262	15.35	23.98	PASS
		RU	34.158	15.33	23.98	PASS
144	5720 (U-NII 3)	SU	11.691	10.68	30	PASS
		RU	11.656	10.67	30	PASS
149	5745	SU	48.341	16.84	30	PASS
		RU	47.973	16.81	30	PASS
		26/0	15.667	11.95	30	PASS
		26/8	15.452	11.89	30	PASS
		52/37	30.479	14.84	30	PASS
		52/40	30.061	14.78	30	PASS
		106/53	45.081	16.54	30	PASS
		106/54	48.084	16.82	30	PASS
157	5785	SU	<b>49.581</b>	<b>16.95</b>	30	PASS
		RU	49.090	16.91	30	PASS
165	5825	SU	48.119	16.82	30	PASS
		RU	47.643	16.78	30	PASS
		26/0	14.962	11.75	30	PASS
		26/8	14.723	11.68	30	PASS
		52/37	29.922	14.76	30	PASS
		52/40	29.376	14.68	30	PASS
		106/53	47.753	16.79	30	PASS
		106/54	47.206	16.74	30	PASS

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## 802.11a\_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	<b>14.91</b>	5.18	<b>102.094</b>	<b>20.09</b>	22.21	PASS
44	5220	14.88	5.18	101.391	20.06	22.2	PASS
48	5240	14.86	5.18	100.925	20.04	22.2	PASS
52	5260	<b>17.77</b>	5.18	<b>197.242</b>	<b>22.95</b>	29.21	PASS
60	5300	17.66	5.18	192.309	22.84	29.21	PASS
64	5320	17.61	5.18	190.108	22.79	29.21	PASS
100	5500	17.53	5.18	186.638	22.71	29.2	PASS
116	5580	<b>17.73</b>	5.18	<b>195.434</b>	<b>22.91</b>	29.21	PASS
140	5700	<b>17.69</b>	5.18	<b>193.642</b>	<b>22.87</b>	29.2	PASS

## 802.11n\_HT20\_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	<b>14.85</b>	5.18	<b>100.693</b>	<b>20.03</b>	23.01	PASS
44	5220	14.79	5.18	99.312	19.97	23.01	PASS
48	5240	14.83	5.18	100.231	20.01	23.01	PASS
52	5260	<b>16.94</b>	5.18	<b>162.930</b>	<b>22.12</b>	30	PASS
60	5300	16.58	5.18	149.968	21.76	30	PASS
64	5320	15.93	5.18	129.122	21.11	30	PASS
100	5500	<b>16.88</b>	5.18	<b>160.694</b>	<b>22.06</b>	30	PASS
116	5580	16.69	5.18	153.815	21.87	30	PASS
140	5700	<b>14.77</b>	5.18	<b>98.855</b>	<b>19.95</b>	30	PASS

## 802.11ac\_VHT20\_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	<b>14.90</b>	5.18	<b>101.859</b>	<b>20.08</b>	23.01	PASS
44	5220	14.85	5.18	100.693	20.03	23.01	PASS
48	5240	14.88	5.18	101.391	20.06	23.01	PASS
52	5260	<b>16.96</b>	5.18	<b>163.682</b>	<b>22.14</b>	30	PASS
60	5300	16.86	5.18	159.956	22.04	30	PASS
64	5320	15.96	5.18	130.017	21.14	30	PASS
100	5500	<b>16.91</b>	5.18	<b>161.808</b>	<b>22.09</b>	30	PASS
116	5580	16.70	5.18	154.170	21.88	30	PASS
140	5700	<b>14.83</b>	5.18	<b>100.231</b>	<b>20.01</b>	30	PASS

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802.11ax\_HE20\_Ch0

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	SU	14.96	5.18	103.276	20.14	23.01	PASS
		RU	14.90	5.18	101.859	20.08	23.01	PASS
		26/0	5.99	5.18	13.092	11.17	23.01	PASS
		26/8	5.91	5.18	12.853	11.09	23.01	PASS
		52/37	7.85	5.18	20.091	13.03	23.01	PASS
		52/40	7.77	5.18	19.724	12.95	23.01	PASS
		106/53	10.96	5.18	41.115	16.14	23.01	PASS
		106/54	10.91	5.18	40.644	16.09	23.01	PASS
44	5220	SU	14.91	5.18	102.094	20.09	23.01	PASS
		RU	14.85	5.18	100.693	20.03	23.01	PASS
48	5240	SU	14.88	5.18	101.391	20.06	23.01	PASS
		RU	14.80	5.18	99.541	19.98	23.01	PASS
52	5260	SU	<b>16.86</b>	5.18	<b>159.956</b>	<b>22.04</b>	30	PASS
		RU	16.81	5.18	158.125	21.99	30	PASS
60	5300	SU	16.76	5.18	156.315	21.94	30	PASS
		RU	16.71	5.18	154.525	21.89	30	PASS
64	5320	SU	15.96	5.18	130.017	21.14	30	PASS
		RU	15.90	5.18	128.233	21.08	30	PASS
		26/0	11.79	5.18	49.774	16.97	30	PASS
		26/8	11.72	5.18	48.978	16.90	30	PASS
		52/37	14.66	5.18	96.383	19.84	30	PASS
		52/40	14.58	5.18	94.624	19.76	30	PASS
		106/53	15.74	5.18	123.595	20.92	30	PASS
		106/54	15.83	5.18	126.183	21.01	30	PASS
100	5500	SU	16.61	5.18	151.008	21.79	30	PASS
		RU	16.55	5.18	148.936	21.73	30	PASS
		26/0	11.76	5.18	49.431	16.94	30	PASS
		26/8	11.80	5.18	49.888	16.98	30	PASS
		52/37	14.67	5.18	96.605	19.85	30	PASS
		52/40	14.73	5.18	97.949	19.91	30	PASS
		106/53	16.54	5.18	148.594	21.72	30	PASS
		106/54	16.60	5.18	150.661	21.78	30	PASS
116	5580	SU	<b>16.73</b>	5.18	<b>155.239</b>	<b>21.91</b>	30	PASS
		RU	16.72	5.18	154.882	21.90	30	PASS
140	5700	SU	14.94	5.18	102.802	20.12	30	PASS
		RU	14.90	5.18	101.859	20.08	30	PASS
		26/0	11.80	5.18	49.888	16.98	30	PASS
		26/8	11.74	5.18	49.204	16.92	30	PASS
		52/37	13.93	5.18	81.470	19.11	30	PASS
		52/40	13.85	5.18	79.983	19.03	30	PASS
		106/53	<b>14.84</b>	5.18	<b>100.462</b>	<b>20.02</b>	30	PASS
		106/54	<b>14.89</b>	5.18	<b>101.625</b>	<b>20.07</b>	30	PASS

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## 10 MAXIMUM POWER SPECTRAL DENSITY

### 10.1 FCC Standard

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

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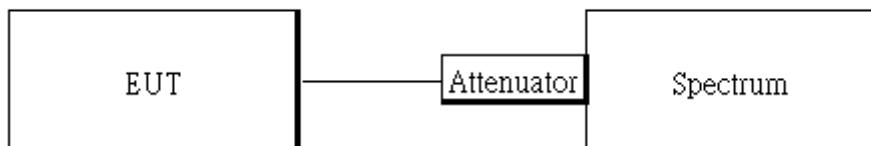
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## 10.2 ISED Standard

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

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

## 10.3 Test Setup



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## 10.4 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**

Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (1001 pts), Detector = power averaging (rms), if available. Otherwise, use sample detector mode, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)

### For U-NII-3 Band:

Set RBW=300kHz, VBW=1MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto, detector = RMS or sample, traces 100 sweeps of video averaging.

In addition, measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500 kHz/RBW) to the measured result.

5. Use the cursor on spectrum to peak search the highest level of trace
6. (1)Duty cycle  $\geq 98\%$  : Record the max. reading.
6. (2)Duty cycle  $< 98\%$  : Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

### Note:

For U-NII1, 2A, 2C and 3 Bands, when the antenna gain is greater than 6 dBi, the power spectral density limit attenuated accordingly.

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## 10.5 Measurement Result

FCC

POWER DENSITY 802.11a MODE						
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maximum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	6.433	0.00	6.43		11.00 dBm/MHz	-4.57
5220	7.072	0.00	7.07		11.00 dBm/MHz	-3.93
5240	6.608	0.00	6.61		11.00 dBm/MHz	-4.39
5260	7.233	0.00	7.23		11.00 dBm/MHz	-3.77
5300	6.676	0.00	6.68		11.00 dBm/MHz	-4.32
5320	5.793	0.00	5.79		11.00 dBm/MHz	-5.21
5500	6.615	0.00	6.62		11.00 dBm/MHz	-4.39
5580	6.379	0.00	6.38		11.00 dBm/MHz	-4.62
5700	6.140	0.00	6.14		11.00 dBm/MHz	-4.86
5720 (U-NII 2C)	6.680	0.00	6.68		11.00 dBm/MHz	-4.32
POWER DENSITY 802.11ac VHT20 MODE						
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maximum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	1.122	0.00	2.22	3.34	30.00 dBm/500kHz	-26.66
5745	2.371	0.00	2.22	4.59	30.00 dBm/500kHz	-25.41
5785	1.742	0.00	2.22	3.96	30.00 dBm/500kHz	-26.04
5825	1.877	0.00	2.22	4.10	30.00 dBm/500kHz	-25.90
POWER DENSITY 802.11ac VHT20 MODE						
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maximum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	4.919	0.00	4.92		11.00 dBm/MHz	-6.08
5220	6.589	0.00	6.59		11.00 dBm/MHz	-4.41
5240	6.431	0.00	6.43		11.00 dBm/MHz	-4.57
5260	6.469	0.00	6.47		11.00 dBm/MHz	-4.53
5300	5.554	0.00	5.55		11.00 dBm/MHz	-5.45
5320	5.201	0.00	5.20		11.00 dBm/MHz	-5.80
5500	6.067	0.00	6.07		11.00 dBm/MHz	-4.93
5580	5.374	0.00	5.37		11.00 dBm/MHz	-5.63
5700	4.068	0.00	4.07		11.00 dBm/MHz	-6.93
5720 (U-NII 2C)	3.671	0.00	3.67		11.00 dBm/MHz	-7.33
POWER DENSITY 802.11ac VHT20 MODE						
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maximum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	-1.941	0.00	2.22	0.28	30.00 dBm/500kHz	-29.72
5745	-0.287	0.00	2.22	1.93	30.00 dBm/500kHz	-28.07
5785	-0.668	0.00	2.22	1.55	30.00 dBm/500kHz	-28.45
5825	-0.717	0.00	2.22	1.50	30.00 dBm/500kHz	-28.50

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POWER DENSITY 802.11ax HE20 MODE							
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maximum Corr'd PSD(dBm/MHz)	Limit	Margin (dB)	
5180	SU	5.402	0.00	5.40	11.00 dBm/MHz	-5.60	
	RU	4.586	0.00	4.59	11.00 dBm/MHz	-6.41	
	26/0	10.144	0.20	10.34	11.00 dBm/MHz	-0.66	
	26/8	10.398	0.20	10.60	11.00 dBm/MHz	-0.40	
	52/37	10.563	0.20	10.76	11.00 dBm/MHz	-0.24	
	52/40	10.433	0.20	10.63	11.00 dBm/MHz	-0.37	
	106/53	9.735	0.20	9.94	11.00 dBm/MHz	-1.07	
	106/54	10.220	0.20	10.42	11.00 dBm/MHz	-0.58	
5220	SU	6.781	0.00	6.78	11.00 dBm/MHz	-4.22	
	RU	6.352	0.00	6.35	11.00 dBm/MHz	-4.65	
5240	SU	5.227	0.00	5.23	11.00 dBm/MHz	-5.77	
	RU	5.928	0.00	5.93	11.00 dBm/MHz	-5.07	
5260	SU	6.464	0.00	6.46	11.00 dBm/MHz	-4.54	
	RU	5.818	0.00	5.82	11.00 dBm/MHz	-5.18	
5300	SU	5.960	0.00	5.96	11.00 dBm/MHz	-5.04	
	RU	5.442	0.00	5.44	11.00 dBm/MHz	-5.56	
5320	SU	5.517	0.00	5.52	11.00 dBm/MHz	-5.48	
	RU	4.409	0.00	4.41	11.00 dBm/MHz	-6.59	
	26/0	8.567	0.20	8.77	11.00 dBm/MHz	-2.23	
	26/8	8.612	0.20	8.81	11.00 dBm/MHz	-2.19	
	52/37	9.898	0.20	10.10	11.00 dBm/MHz	-0.90	
	52/40	9.733	0.20	9.93	11.00 dBm/MHz	-1.07	
	106/53	8.772	0.20	8.97	11.00 dBm/MHz	-2.03	
	106/54	8.739	0.20	8.94	11.00 dBm/MHz	-2.06	
5500	SU	5.298	0.00	5.30	11.00 dBm/MHz	-5.70	
	RU	6.162	0.00	6.16	11.00 dBm/MHz	-4.84	
	26/0	8.559	0.20	8.76	11.00 dBm/MHz	-2.24	
	26/8	8.732	0.20	8.93	11.00 dBm/MHz	-2.07	
	52/37	8.920	0.20	9.12	11.00 dBm/MHz	-1.88	
	52/40	9.844	0.20	10.04	11.00 dBm/MHz	-0.96	
	106/53	9.866	0.20	10.07	11.00 dBm/MHz	-0.93	
	106/54	9.775	0.20	9.98	11.00 dBm/MHz	-1.03	
5580	SU	6.174	0.00	6.17	11.00 dBm/MHz	-4.83	
	RU	5.979	0.00	5.98	11.00 dBm/MHz	-5.02	
5700	SU	5.566	0.00	5.57	11.00 dBm/MHz	-5.43	
	RU	4.381	0.00	4.38	11.00 dBm/MHz	-6.62	
	26/0	8.037	0.20	8.24	11.00 dBm/MHz	-2.76	
	26/8	7.975	0.20	8.18	11.00 dBm/MHz	-2.83	
	52/37	10.097	0.20	10.30	11.00 dBm/MHz	-0.70	
	52/40	9.719	0.20	9.92	11.00 dBm/MHz	-1.08	
	106/53	7.793	0.20	7.99	11.00 dBm/MHz	-3.01	
	106/54	7.560	0.20	7.76	11.00 dBm/MHz	-3.24	
5720 (U-NII 2C)	SU	5.188	0.00	5.19	11.00 dBm/MHz	-5.81	
	RU	5.228	0.00	5.23	11.00 dBm/MHz	-5.77	
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maximum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	SU	0.024	0.00	2.22	2.24	30.00 dBm/500kHz	-27.76
	RU	-0.207	0.00	2.22	2.01	30.00 dBm/501kHz	-27.99
5745	SU	0.740	0.00	2.22	2.96	30.00 dBm/502kHz	-27.04
	RU	0.693	0.00	2.22	2.91	30.00 dBm/503kHz	-27.09
	26/0	5.030	0.20	2.22	7.45	30.00 dBm/504kHz	-22.55
	26/8	4.264	0.20	2.22	6.68	30.00 dBm/505kHz	-23.32
	52/37	4.944	0.20	2.22	7.36	30.00 dBm/506kHz	-22.64
	52/40	5.004	0.20	2.22	7.42	30.00 dBm/507kHz	-22.58
	106/53	4.010	0.20	2.22	6.43	30.00 dBm/508kHz	-23.57
	106/54	3.515	0.20	2.22	5.94	30.00 dBm/509kHz	-24.07
5785	SU	0.852	0.00	2.22	3.07	30.00 dBm/510kHz	-26.93
	RU	0.837	0.00	2.22	3.06	30.00 dBm/511kHz	-26.94
5825	SU	0.808	0.00	2.22	3.03	30.00 dBm/512kHz	-26.97
	RU	0.560	0.00	2.22	2.78	30.00 dBm/513kHz	-27.22
	26/0	4.231	0.20	2.22	6.65	30.00 dBm/514kHz	-23.35
	26/8	4.669	0.20	2.22	7.09	30.00 dBm/515kHz	-22.91
	52/37	4.900	0.20	2.22	7.32	30.00 dBm/516kHz	-22.68
	52/40	4.538	0.20	2.22	6.96	30.00 dBm/517kHz	-23.04
	106/53	4.797	0.20	2.22	7.22	30.00 dBm/518kHz	-22.78
	106/54	4.068	0.20	2.22	6.49	30.00 dBm/507kHz	-23.51

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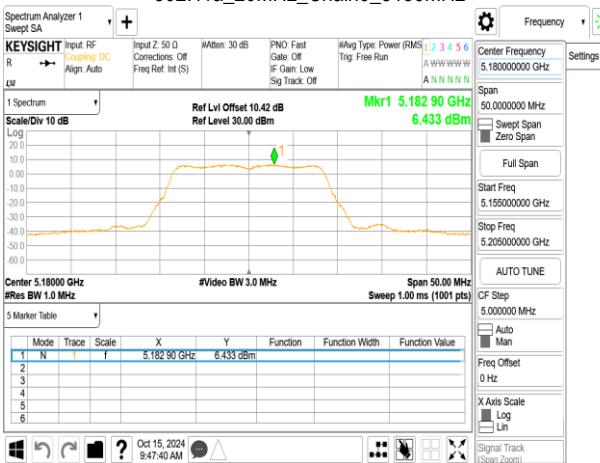
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802.11a\_20MHz\_Chain0\_5180MHz



802.11a\_20MHz\_Chain0\_5260MHz



802.11a\_20MHz\_Chain0\_5220MHz



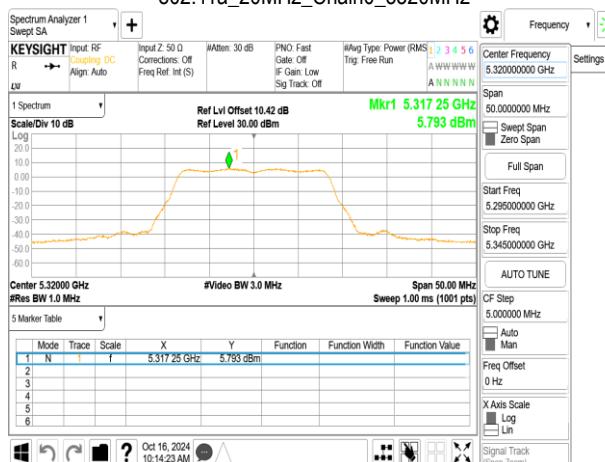
802.11a\_20MHz\_Chain0\_5300MHz



802.11a\_20MHz\_Chain0\_5240MHz



802.11a\_20MHz\_Chain0\_5320MHz



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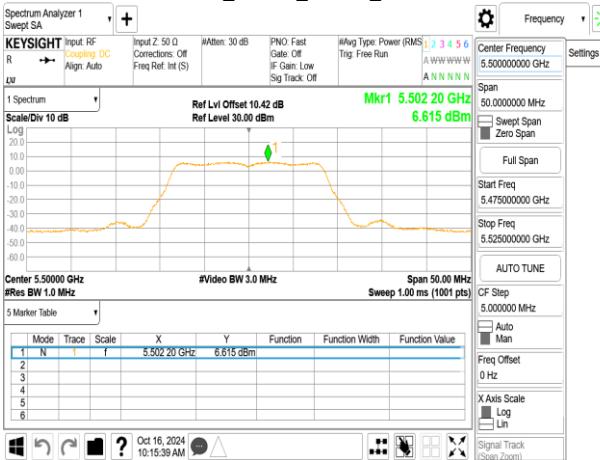
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802.11a\_20MHz\_Chain0\_5500MHz



802.11a\_20MHz\_Chain0\_5580MHz



802.11a\_20MHz\_Chain0\_5700MHz



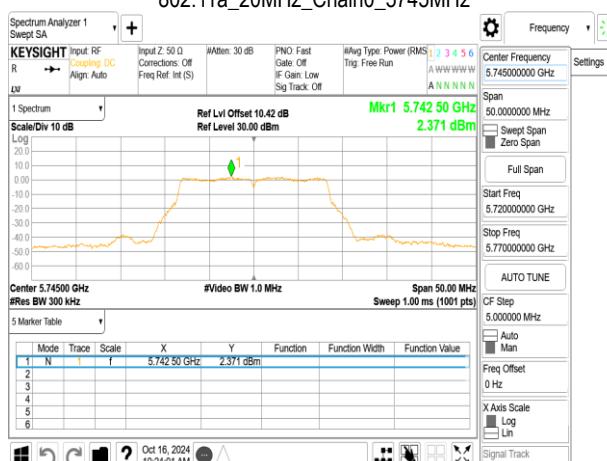
802.11a\_20MHz\_Chain0\_5720MHz\_UNII2C



802.11a\_20MHz\_Chain0\_5720MHz\_UNII3



802.11a\_20MHz\_Chain0\_5745MHz



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802.11a\_20MHz\_Chain0\_5785MHz



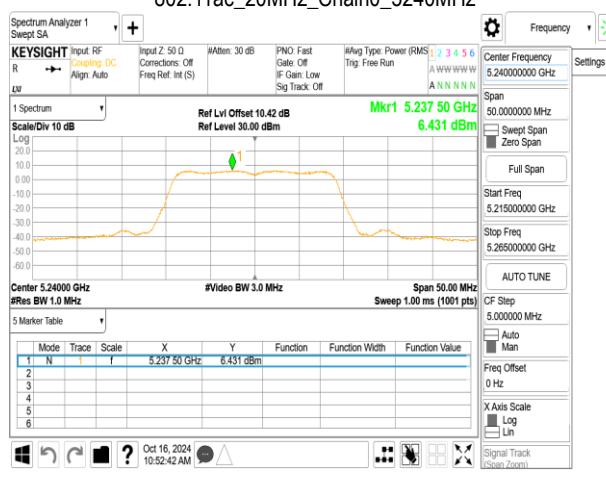
802.11ac\_20MHz\_Chain0\_5220MHz



802.11a\_20MHz\_Chain0\_5825MHz



802.11ac\_20MHz\_Chain0\_5240MHz



802.11ac\_20MHz\_Chain0\_5180MHz



802.11ac\_20MHz\_Chain0\_5260MHz



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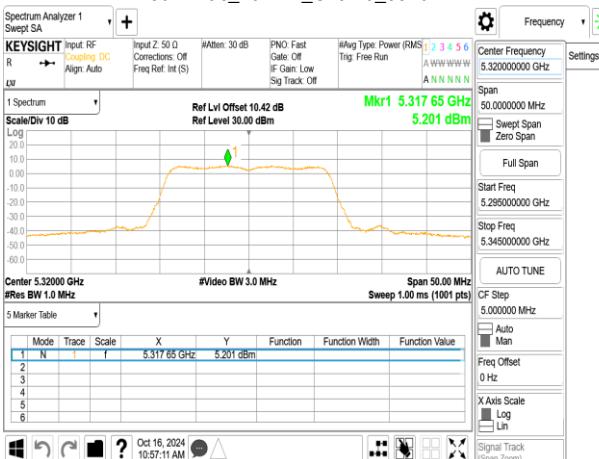
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## 802.11ac\_20MHz\_Chain0\_5300MHz



## 802.11ac\_20MHz\_Chain0\_5320MHz



## 802.11ac\_20MHz\_Chain0\_5500MHz



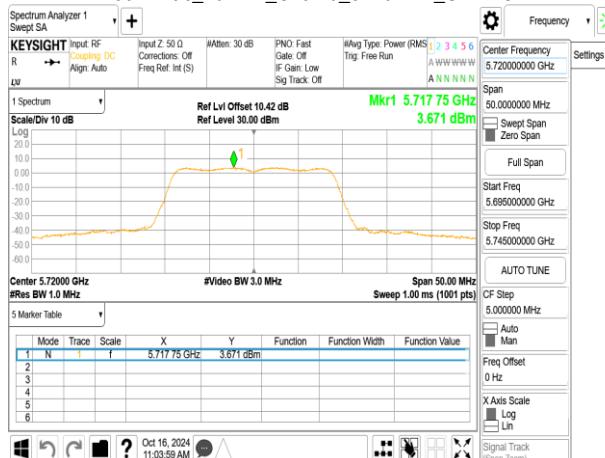
## 802.11ac\_20MHz\_Chain0\_5580MHz



## 802.11ac\_20MHz\_Chain0\_5700MHz



## 802.11ac\_20MHz\_Chain0\_5720MHz\_UNII\_2C



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802.11ac\_20MHz\_Chain0\_5720MHz\_UNII 3



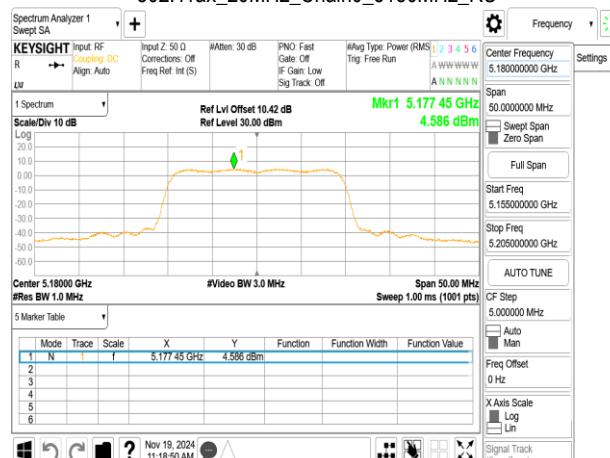
802.11ac\_20MHz\_Chain0\_5825MHz



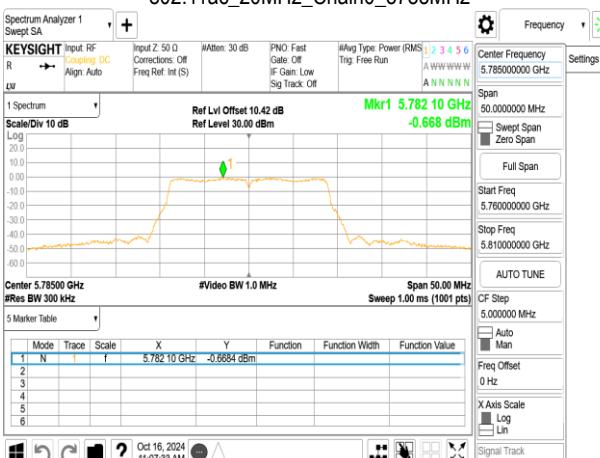
802.11ac\_20MHz\_Chain0\_5745MHz



802.11ax\_20MHz\_Chain0\_5180MHz\_RU



802.11ac\_20MHz\_Chain0\_5785MHz



802.11ax\_20MHz\_Chain0\_5180MHz\_SU



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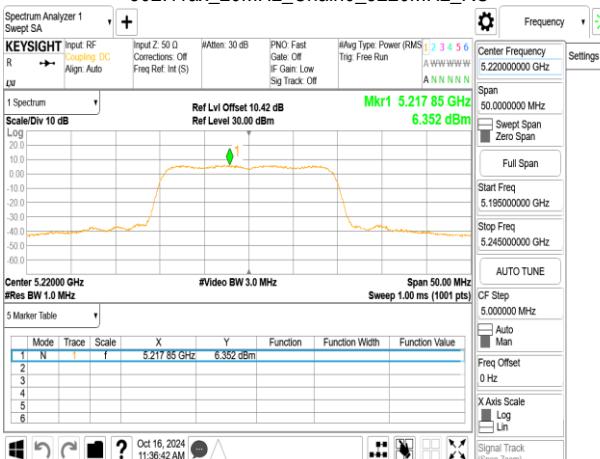
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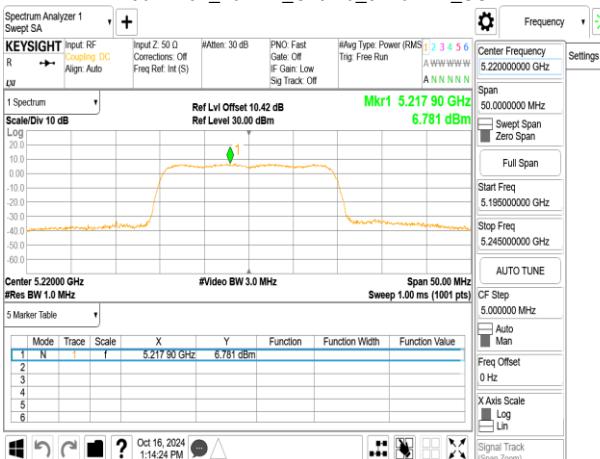
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802.11ax\_20MHz\_Chain0\_5220MHz\_RU



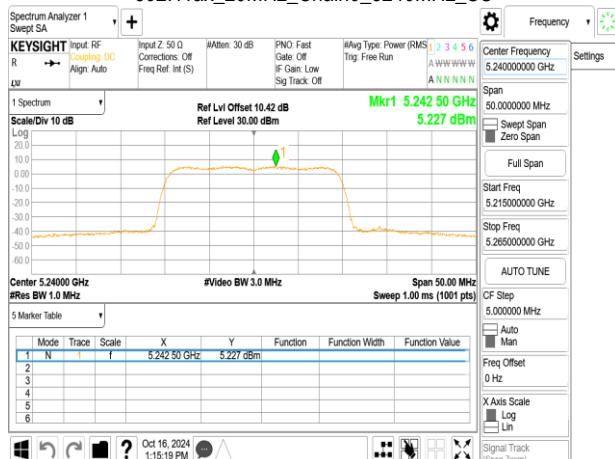
802.11ax\_20MHz\_Chain0\_5220MHz\_SU



802.11ax\_20MHz\_Chain0\_5240MHz\_RU



802.11ax\_20MHz\_Chain0\_5240MHz\_SU



802.11ax\_20MHz\_Chain0\_5260MHz\_RU



802.11ax\_20MHz\_Chain0\_5260MHz\_SU



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802.11ax\_20MHz\_Chain0\_5300MHz\_RU



802.11ax\_20MHz\_Chain0\_5320MHz\_SU



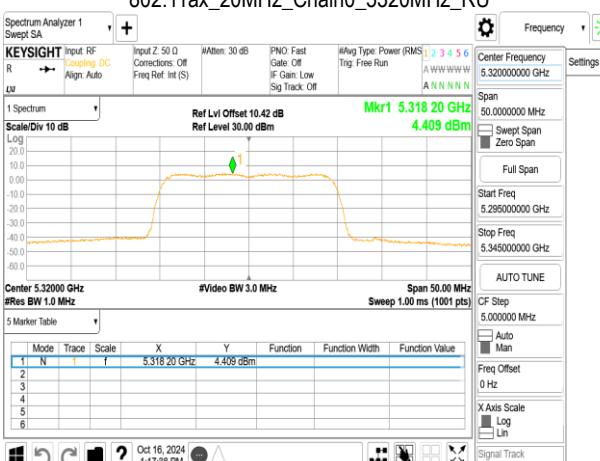
802.11ax\_20MHz\_Chain0\_5300MHz\_SU



802.11ax\_20MHz\_Chain0\_5320MHz\_RU26\_0



802.11ax\_20MHz\_Chain0\_5320MHz\_RU



802.11ax\_20MHz\_Chain0\_5320MHz\_RU26\_8



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