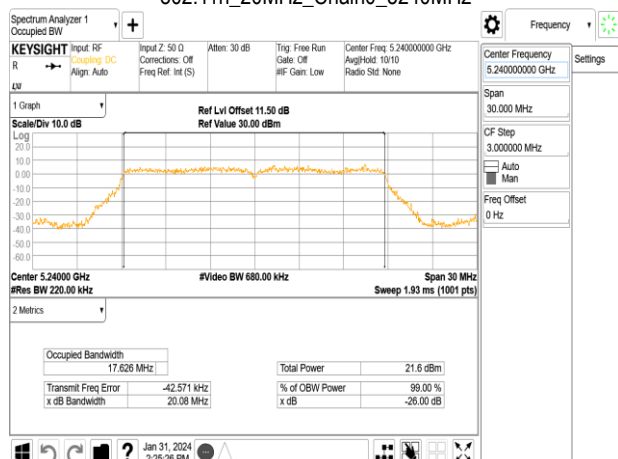
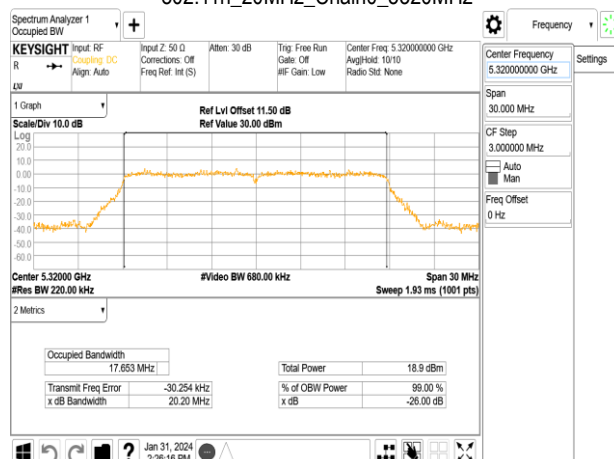


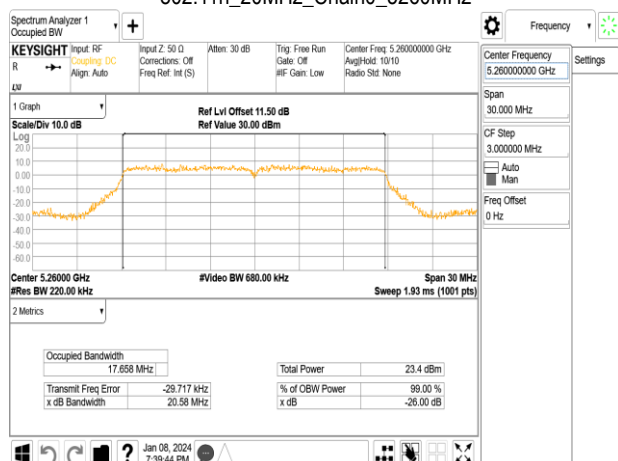
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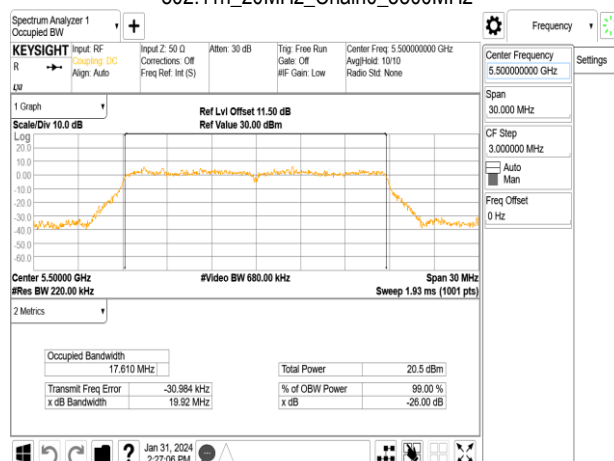
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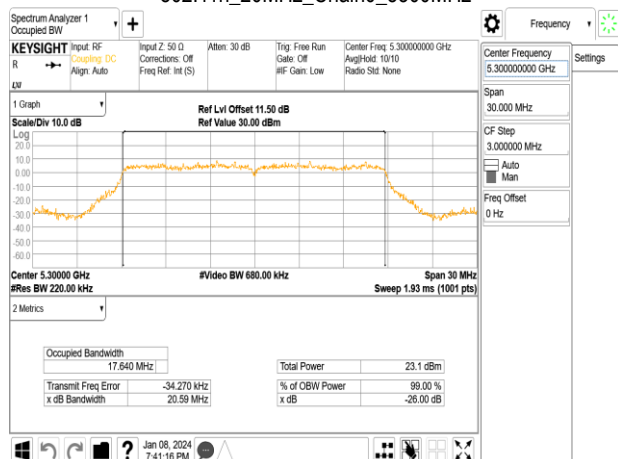
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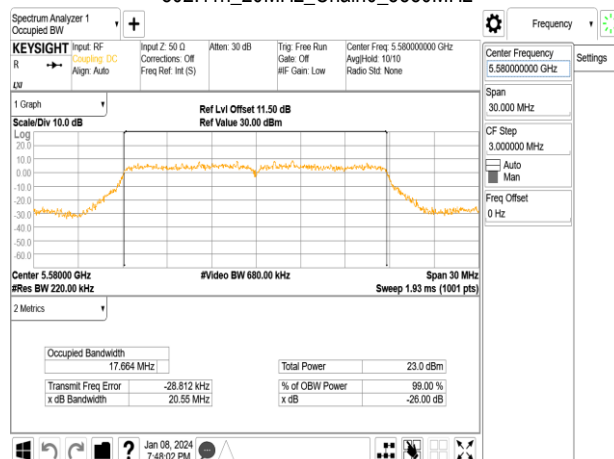
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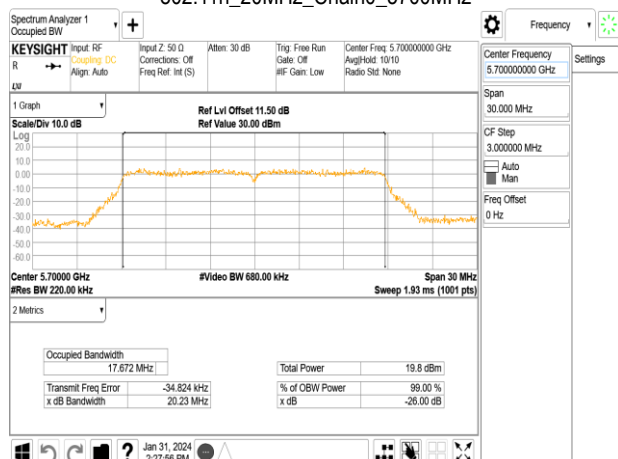


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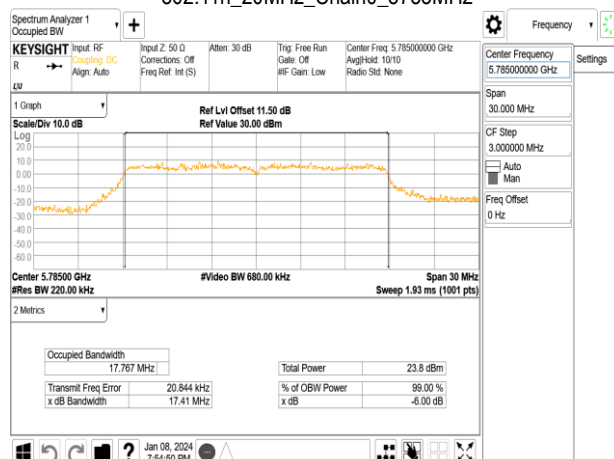
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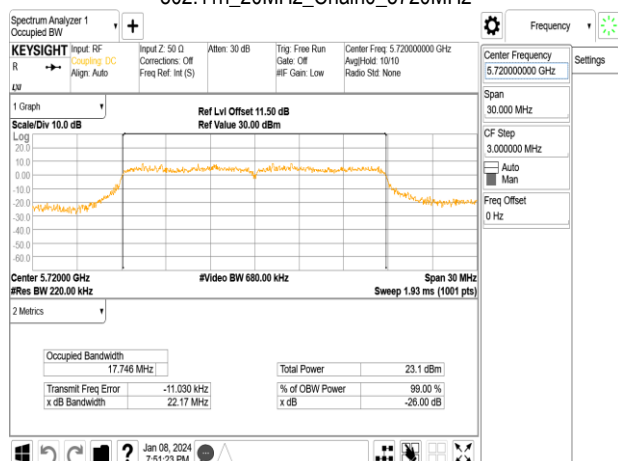
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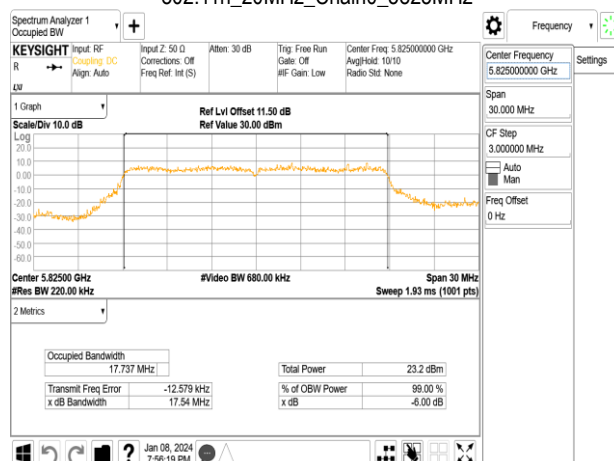
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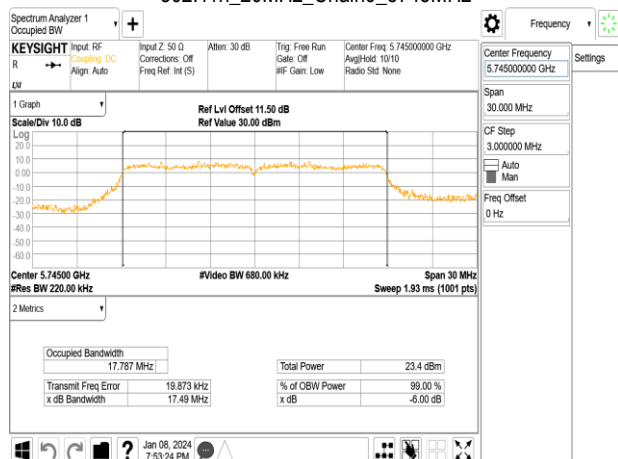
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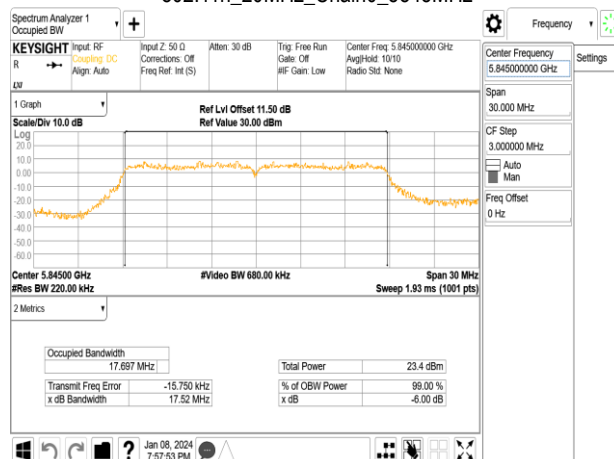
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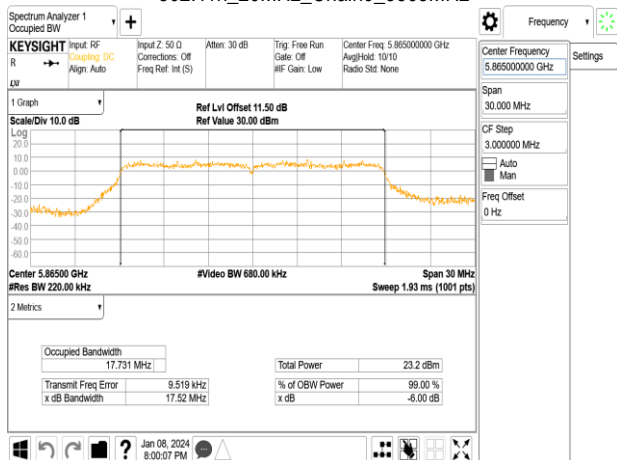


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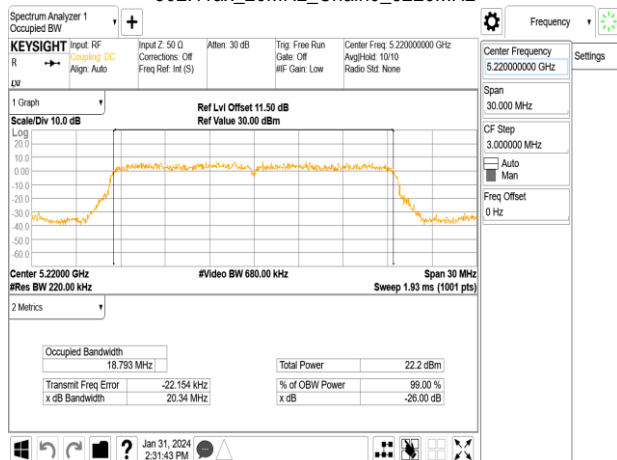
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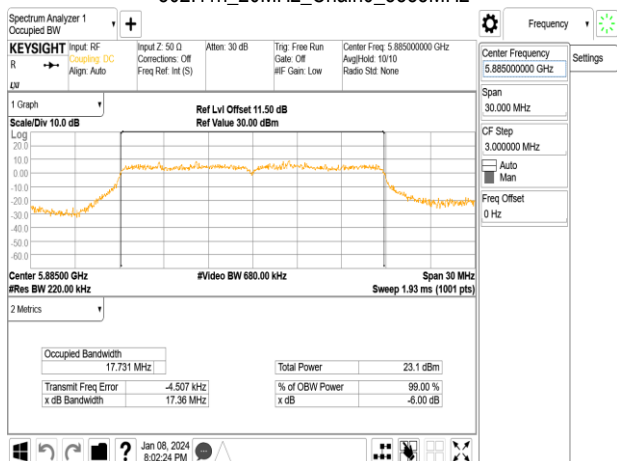
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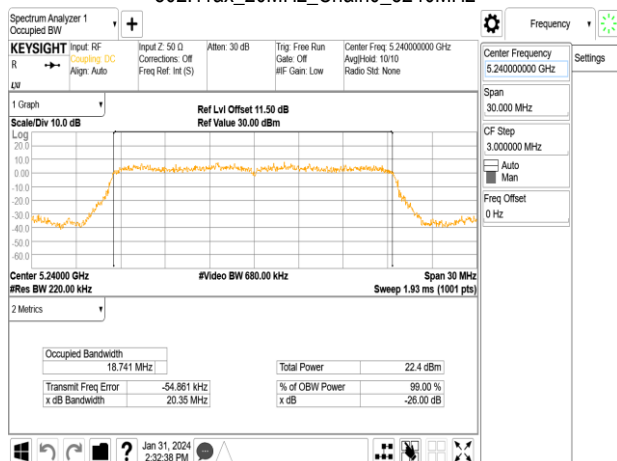
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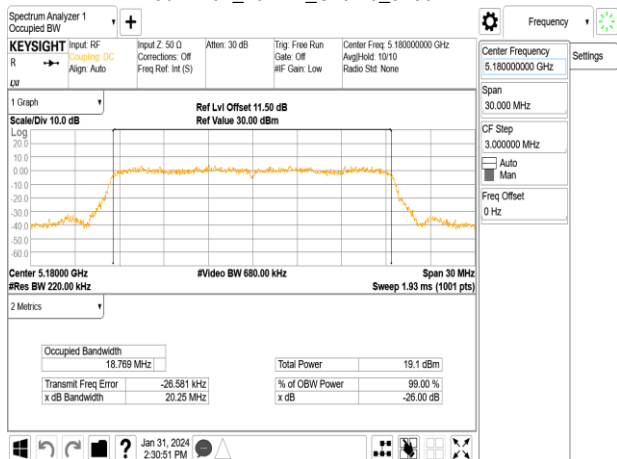
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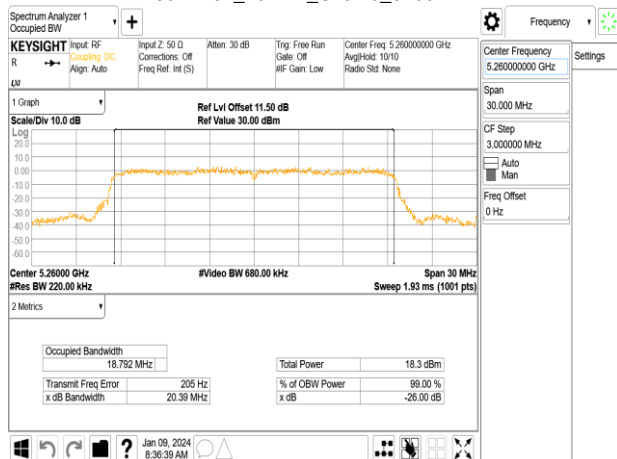
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802.11ax\_20MHz\_Chain0\_5180MHz



802.11ax\_20MHz\_Chain0\_5260MHz

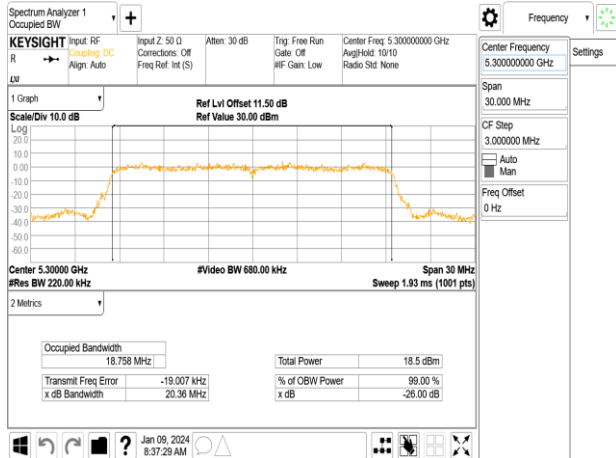


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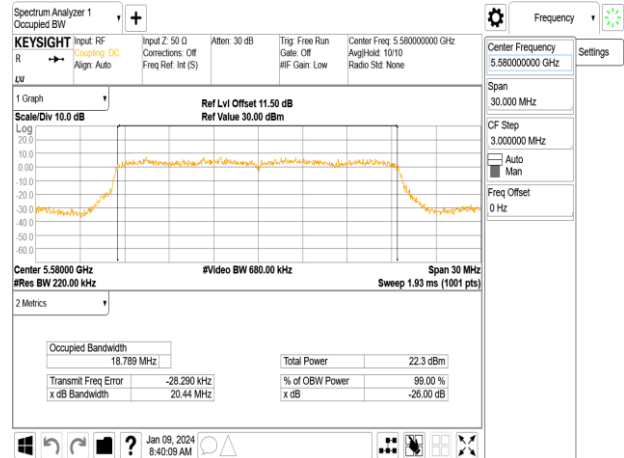
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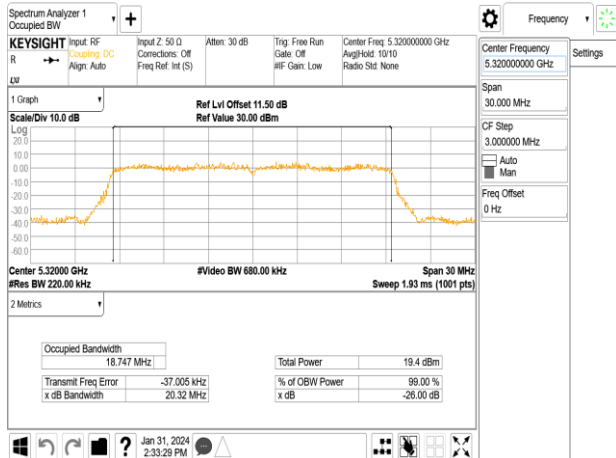
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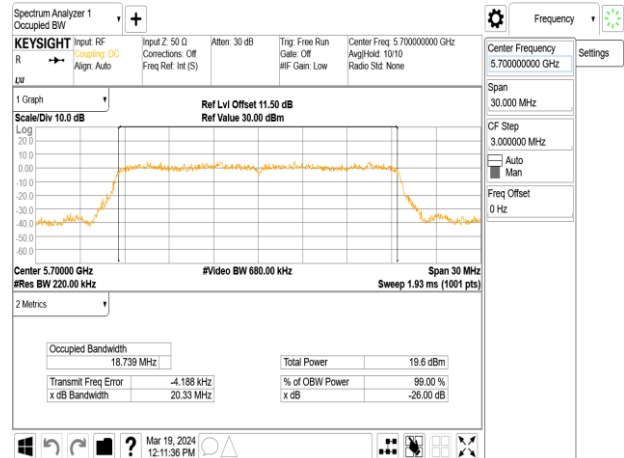
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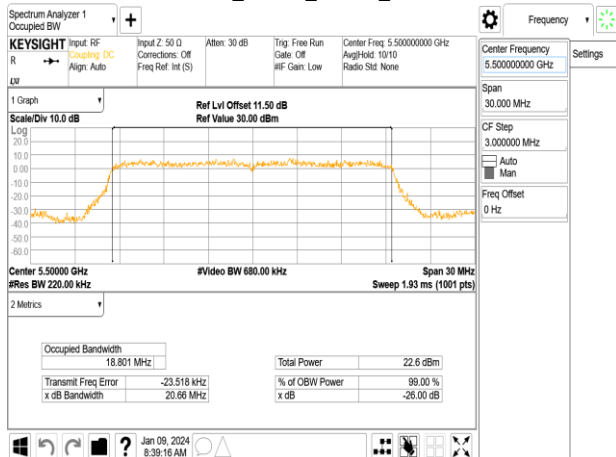
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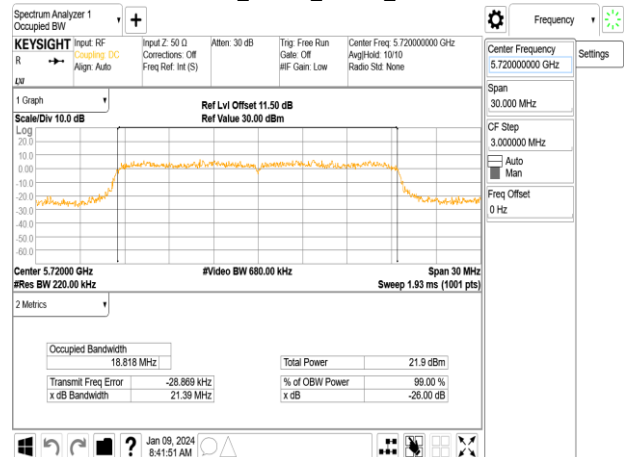
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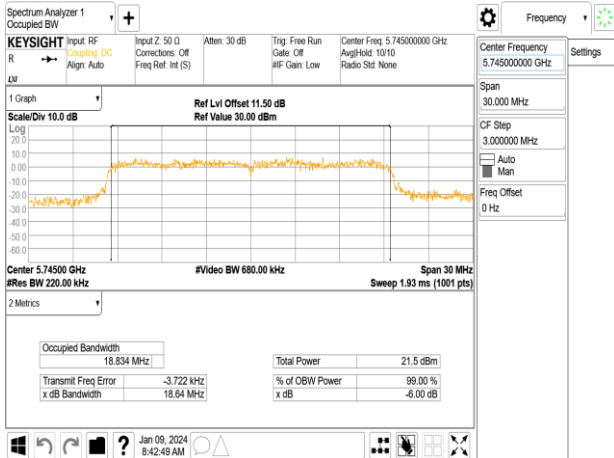


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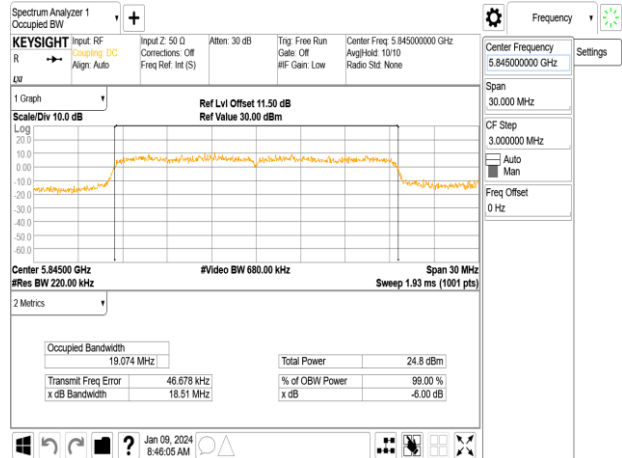
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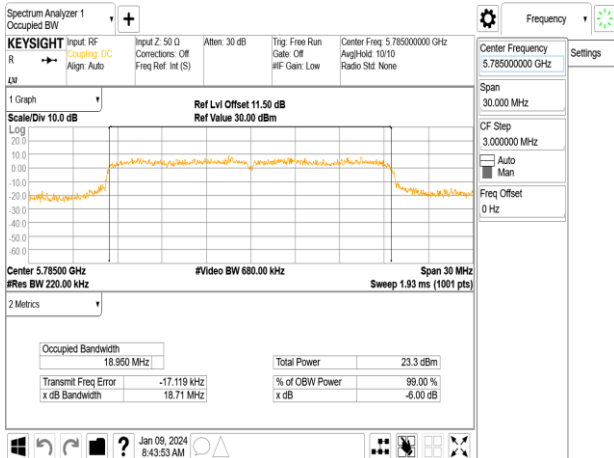
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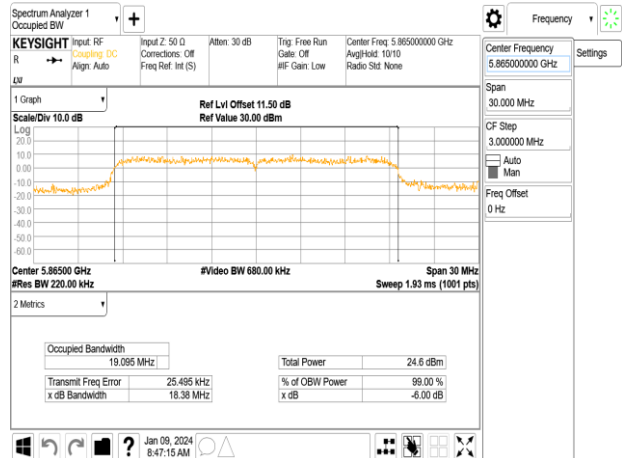
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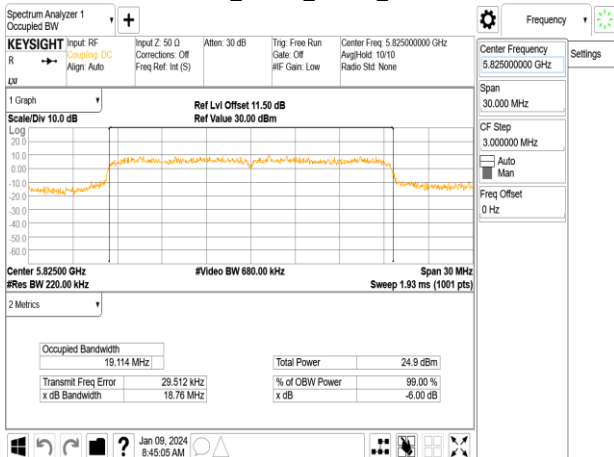
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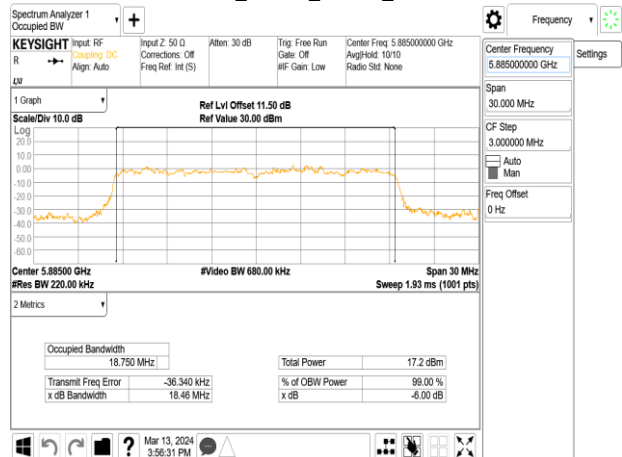
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802.11ax\_20MHz\_Chain0\_5825MHz



802.11ax\_20MHz\_Chain0\_5885MHz



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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
		Out door AP	1 Watt(30dBm)	Elevation angle above 30 degrees 125mW (21dBm)	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		Access Point	Not required	36dBm	Not required	Not required
	V	Other	Not required	30dBm	Not required	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.

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

[www.sgs.com.tw](http://www.sgs.com.tw)

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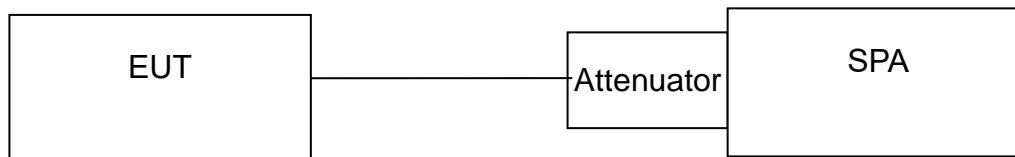
### 9.1.3 ISED

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

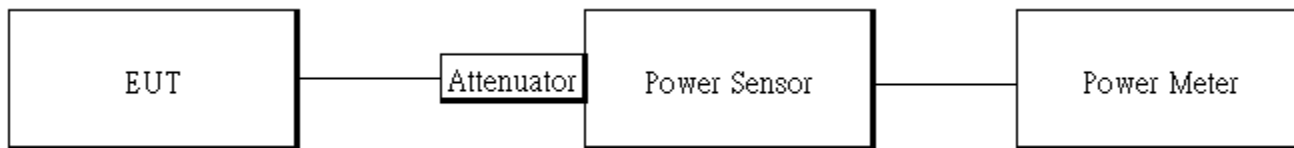
For equipment operating in the band 5725-5850 MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

## 9.2 Test Setup

### 9.2.1 Duty Cycle



### 9.2.2 Output Power



## 9.3 Measurement Procedure

### 9.3.1 Duty Cycle Measurements

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

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### 9.3.2 Output Power Measurements

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add  $10 \log(1/\text{duty cycle})$ .
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.
- 7.

**Note:**

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

### 9.4 Duty Cycle Measurement Result

Mode		Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log ( 1/Duty Cycle )	1/T (kHz)	VBW setting (kHz)
802.11a		98.89	0.05	0.70	0.01
802.11n_20		98.96	0.05	0.75	0.01
802.11ac_20		98.82	0.05	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	Full	98.49	0.07	0.96	0.01
	26 RU	96.93	0.14	0.49	1.00
	52 RU	96.97	0.13	0.49	1.00
	106 RU	96.97	0.13	0.49	1.00

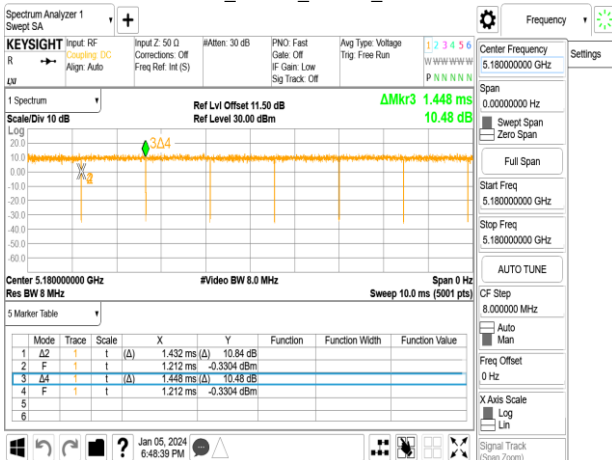
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802.11a\_20MHz\_Chain0\_5180MHz



802.11ax\_20MHz\_Chain0\_5180MHz



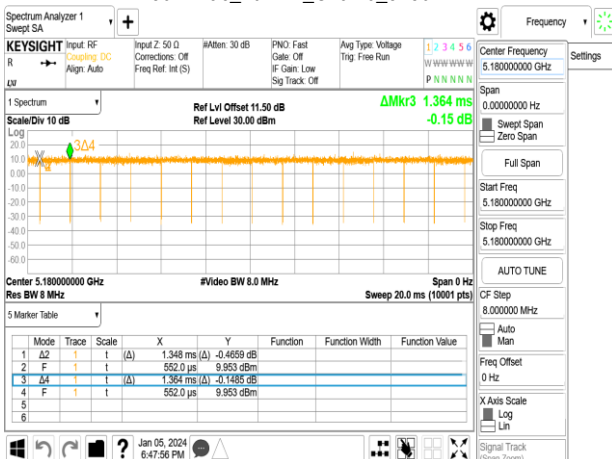
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802.11ac\_20MHz\_Chain0\_5180MHz



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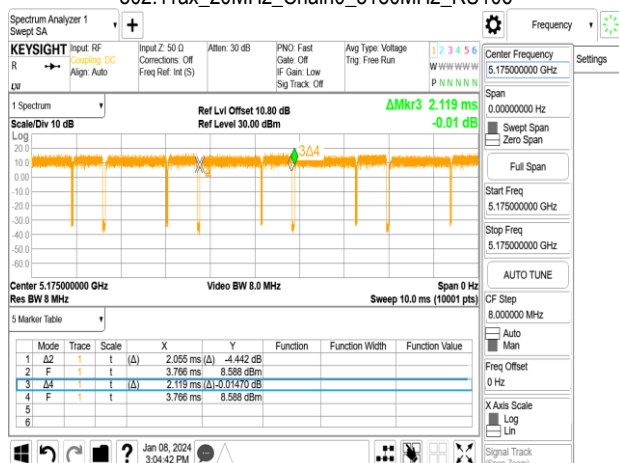


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802.11ax\_20MHz\_Chain0\_5180MHz\_RU106



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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	16.25	14.62	28.963	23.98	PASS
44	5220	6	18.75	<b>17.84</b>	60.792	23.98	PASS
48	5240	6	19	17.83	60.652	23.98	PASS
52	5260	6	18.5	<b>17.88</b>	61.355	23.98	PASS
60	5300	6	19	17.77	59.820	23.98	PASS
64	5320	6	17.25	14.77	29.981	23.98	PASS
100	5500	6	15	17.89	61.496	23.98	PASS
116	5580	6	15.25	<b>17.90</b>	61.638	23.98	PASS
140	5700	6	15.25	17.69	58.728	23.98	PASS
144	5720(U-NII 2C)	6	14.25	15.35	34.30	23.98	PASS
144	5720 (U-NII 3)	6	14.25	10.69	11.71	30	PASS
149	5745	6	16.25	17.74	59.408	30	PASS
157	5785	6	16	<b>17.90</b>	61.638	30	PASS
165	5825	6	17	17.77	59.820	30	PASS
CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
169	5845	6	17	17.82	21.818	30	PASS
173	5865	6	17	17.85	21.848	30	PASS
177	5885	6	17	17.78	21.778	30	PASS

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

[www.sgs.com.tw](http://www.sgs.com.tw)

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## 802.11n\_HT20\_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	16	14.63	29.010	23.98	PASS
44	5220	MCS0	19.25	18.22	66.304	23.98	PASS
48	5240	MCS0	19.75	<b>18.26</b>	66.918	23.98	PASS
52	5260	MCS0	21	<b>19.91</b>	97.845	23.98	PASS
60	5300	MCS0	21.5	19.80	95.398	23.98	PASS
64	5320	MCS0	16.75	14.65	29.143	23.98	PASS
100	5500	MCS0	15	16.63	45.977	23.98	PASS
116	5580	MCS0	17.25	<b>19.75</b>	94.306	23.98	PASS
140	5700	MCS0	14.25	15.96	39.404	23.98	PASS
144	5720(U-NII 2C)	MCS0	17.75	18.20	66.04	23.98	PASS
144	5720 (U-NII 3)	MCS0	17.75	14.34	27.19	30	PASS
149	5745	MCS0	19.5	19.79	95.179	30	PASS
157	5785	MCS0	19.5	<b>19.87</b>	96.948	30	PASS
165	5825	MCS0	20.5	19.76	94.524	30	PASS
CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
169	5845	MCS0	20.5	19.74	23.735	30	PASS
173	5865	MCS0	20.5	19.72	23.715	30	PASS
177	5885	MCS0	20.5	19.75	23.745	30	PASS

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

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## 802.11ac\_VHT20\_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	16	14.55	28.520	23.98	PASS
44	5220	MCS0	19.25	18.13	65.036	23.98	PASS
48	5240	MCS0	19.75	18.19	65.941	23.98	PASS
52	5260	MCS0	21	19.84	96.417	23.98	PASS
60	5300	MCS0	21.5	19.71	93.574	23.98	PASS
64	5320	MCS0	16.75	14.53	28.389	23.98	PASS
100	5500	MCS0	15	16.52	44.891	23.98	PASS
116	5580	MCS0	17.25	19.72	93.790	23.98	PASS
140	5700	MCS0	14.25	15.90	38.918	23.98	PASS
144	5720(U-NII 2C)	MCS0	17.75	18.13	65.07	23.98	PASS
144	5720 (U-NII 3)	MCS0	17.75	14.28	26.79	30	PASS
149	5745	MCS0	19.5	19.69	93.144	30	PASS
157	5785	MCS0	19.5	19.79	95.314	30	PASS
165	5825	MCS0	20.5	19.67	92.716	30	PASS
CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
169	5845	MCS0	20.5	19.69	23.692	30	PASS
173	5865	MCS0	20.5	19.64	23.642	30	PASS
177	5885	MCS0	20.5	19.72	23.722	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	SU	16.25	15.39	34.563	23.98	PASS
		MCS0	RU	15.5	14.13	25.859	23.98	PASS
		MCS0	26/0	10	9.18	8.271	23.98	PASS
		MCS0	26/8	10	9.05	8.027	23.98	PASS
		MCS0	52/37	12	11.50	14.137	23.98	PASS
		MCS0	52/40	11	10.34	10.823	23.98	PASS
		MCS0	106/53	13.5	13.51	22.458	23.98	PASS
44	5220	MCS0	SU	19	18.48	70.406	23.98	PASS
		MCS0	RU	19	18.04	63.622	23.98	PASS
48	5240	MCS0	SU	19.25	18.55	71.550	23.98	PASS
		MCS0	RU	19.75	18.32	67.859	23.98	PASS
52	5260	MCS0	SU	20.5	19.90	97.636	23.98	PASS
		MCS0	RU	20.5	19.83	96.074	23.98	PASS
60	5300	MCS0	SU	21.25	19.87	96.963	23.98	PASS
		MCS0	RU	21.25	19.74	94.104	23.98	PASS
64	5320	MCS0	SU	16	14.11	25.740	23.98	PASS
		MCS0	RU	16.5	14.34	27.140	23.98	PASS
		MCS0	26/8	10	9.36	8.621	23.98	PASS
		MCS0	26/0	15	14.72	29.617	23.98	PASS
		MCS0	52/40	18	16.01	39.936	23.98	PASS
		MCS0	52/37	12.5	12.25	16.802	23.98	PASS
		MCS0	106/54	21.5	19.81	95.799	23.98	PASS
100	5500	MCS0	106/53	21.5	19.77	94.921	23.98	PASS
		MCS0	SU	11	12.31	17.006	23.98	PASS
		MCS0	RU	16.5	19.32	85.429	23.98	PASS
		MCS0	26/0	12.5	14.43	27.704	23.98	PASS
		MCS0	26/8	12.5	14.34	27.136	23.98	PASS
		MCS0	52/37	15	16.04	40.213	23.98	PASS
		MCS0	52/40	14	14.92	31.072	23.98	PASS
116	5580	MCS0	106/53	14.5	15.31	33.991	23.98	PASS
		MCS0	106/54	15.25	16.55	45.223	23.98	PASS
		MCS0	SU	17.5	19.87	96.963	23.98	PASS
		MCS0	RU	17.5	19.79	95.194	23.98	PASS
		MCS0	SU	12.25	13.75	23.692	23.98	PASS
		MCS0	RU	13	14.78	30.034	23.98	PASS
		MCS0	26/8	11.75	12.65	18.388	23.98	PASS
140	5700	MCS0	26/0	8.5	9.06	8.045	23.98	PASS
		MCS0	52/40	12.5	13.64	23.140	23.98	PASS
		MCS0	52/37	12.25	13.50	22.406	23.98	PASS
		MCS0	106/54	12.25	13.78	23.898	23.98	PASS
		MCS0	106/53	12.5	13.74	23.679	23.98	PASS
		MCS0	SU	17.75	19.84	96.296	23.98	PASS
		MCS0	RU	17.75	19.79	95.194	23.98	PASS
149	5745	MCS0	SU	19.25	19.92	98.086	30	PASS
		MCS0	RU	19.25	19.88	97.187	30	PASS
		MCS0	26/0	20	19.77	94.742	30	PASS
		MCS0	26/8	20	19.86	96.726	30	PASS
		MCS0	52/37	19.5	19.91	98.031	30	PASS
		MCS0	52/40	19.5	19.82	96.020	30	PASS
		MCS0	106/53	18.75	19.98	99.624	30	PASS
157	5785	MCS0	106/54	19.25	19.86	96.909	30	PASS
		MCS0	SU	19	19.89	97.411	30	PASS
		MCS0	RU	19	19.79	95.194	30	PASS
		MCS0	SU	20	19.94	98.539	30	PASS
		MCS0	RU	20	19.90	97.636	30	PASS
		MCS0	26/8	21	19.86	96.726	30	PASS
		MCS0	26/0	21	19.81	95.618	30	PASS
165	5825	MCS0	52/40	20.75	19.89	97.580	30	PASS
		MCS0	52/37	20.75	19.93	98.483	30	PASS
		MCS0	106/54	20.5	19.88	97.356	30	PASS
		MCS0	106/53	20.5	19.92	98.257	30	PASS
		MCS0	SU	20	19.91	98.031	30	PASS
		MCS0	RU	20	19.88	97.187	30	PASS
		MCS0	26/0	20	19.77	94.742	30	PASS
169	5845	MCS0	26/8	20.5	17.66	21.655	30	PASS
		MCS0	52/37	20.5	19.85	23.854	30	PASS
		MCS0	52/40	20.75	19.79	23.794	30	PASS
		MCS0	106/53	20.5	19.98	23.984	30	PASS
		MCS0	106/54	20.25	19.87	23.874	30	PASS
		MCS0	SU	20	19.80	23.796	30	PASS
		MCS0	RU	20	19.71	23.706	30	PASS
177	5885	MCS0	SU	12.5	12.28	16.276	30	PASS
		MCS0	RU	15.25	15.51	19.506	30	PASS
		MCS0	26/8	3.5	3.12	7.115	30	PASS
		MCS0	26/0	19.75	17.79	21.785	30	PASS
		MCS0	52/40	6.5	6.20	10.204	30	PASS
		MCS0	52/37	20.75	19.91	23.914	30	PASS
		MCS0	106/54	8.5	8.28	12.284	30	PASS
177	5885	MCS0	106/53	20.5	19.86	23.864	30	PASS

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## 9.5.2 ISED Conducted output power and EIRP

### 802.11a\_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	17.88	61.355	23.98	PASS
60	5300	17.77	59.820	23.98	PASS
64	5320	14.77	29.981	23.98	PASS
100	5500	17.89	61.496	23.98	PASS
116	5580	<b>17.90</b>	<b>61.638</b>	23.98	PASS
140	5700	17.69	<b>58.728</b>	23.98	PASS
144	5720(U-NII 2C)	15.35	34.298	23.98	PASS
144	5720 (U-NII 3)	10.69	11.711	30	PASS
149	5745	17.74	59.408	30	PASS
157	5785	<b>17.90</b>	<b>61.638</b>	30	PASS
165	5825	17.77	59.820	30	PASS

### 802.11n\_HT20\_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	<b>19.91</b>	<b>97.845</b>	23.98	PASS
60	5300	19.80	95.398	23.98	PASS
64	5320	14.65	29.143	23.98	PASS
100	5500	16.63	45.977	23.98	PASS
116	5580	<b>19.75</b>	<b>94.306</b>	23.98	PASS
140	5700	15.96	39.404	23.98	PASS
144	5720(U-NII 2C)	<b>18.20</b>	<b>66.036</b>	23.98	PASS
144	5720 (U-NII 3)	14.34	27.191	30	PASS
149	5745	19.79	95.179	30	PASS
157	5785	<b>19.87</b>	<b>96.948</b>	30	PASS
165	5825	19.76	94.524	30	PASS

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## 802.11ac\_VHT20\_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	<b>19.84</b>	<b>96.417</b>	23.98	PASS
60	5300	19.71	93.574	23.98	PASS
64	5320	14.53	28.389	23.98	PASS
100	5500	16.52	44.891	23.98	PASS
116	5580	<b>19.72</b>	<b>93.790</b>	23.98	PASS
140	5700	15.90	38.918	23.98	PASS
144	5720(U-NII 2C)	<b>18.13</b>	<b>65.072</b>	23.98	PASS
144	5720 (U-NII 3)	14.28	26.794	30	PASS
149	5745	19.69	93.144	30	PASS
157	5785	<b>19.79</b>	<b>95.314</b>	30	PASS
165	5825	19.67	92.716	30	PASS

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## 802.11ax\_HE20\_Ch0

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	SU	19.90	97.636	23.98	PASS
		RU	19.83	96.074	23.98	PASS
60	5300	SU	19.87	96.963	23.98	PASS
		RU	19.74	94.104	23.98	PASS
64	5320	SU	14.11	25.740	23.98	PASS
		RU	14.34	27.140	23.98	PASS
		26/8	9.36	8.621	23.98	PASS
		26/0	14.72	29.617	23.98	PASS
		52/40	16.01	39.936	23.98	PASS
		52/37	12.25	16.802	23.98	PASS
		106/54	19.81	95.799	23.98	PASS
		106/53	19.77	94.921	23.98	PASS
100	5500	SU	12.31	17.006	23.98	PASS
		RU	19.32	85.429	23.98	PASS
		26/0	14.43	27.704	23.98	PASS
		26/8	14.34	27.136	23.98	PASS
		52/37	16.04	40.213	23.98	PASS
		52/40	14.92	31.072	23.98	PASS
		106/53	15.31	33.991	23.98	PASS
		106/54	16.55	45.223	23.98	PASS
116	5580	SU	19.87	96.963	23.98	PASS
		RU	19.79	95.194	23.98	PASS
140	5700	SU	13.75	23.692	23.98	PASS
		RU	14.78	30.034	23.98	PASS
		26/8	12.65	18.388	23.98	PASS
		26/0	9.06	8.045	23.98	PASS
		52/40	13.64	23.140	23.98	PASS
		52/37	13.50	22.406	23.98	PASS
		106/54	13.78	23.898	23.98	PASS
		106/53	13.74	23.679	23.98	PASS
144	5720	SU	19.84	96.296	23.98	PASS
		RU	19.79	95.194	23.98	PASS
149	5745	SU	19.92	98.086	30	PASS
		RU	19.88	97.187	30	PASS
		26/0	19.77	94.742	30	PASS
		26/8	19.86	96.726	30	PASS
		52/37	19.91	98.031	30	PASS
		52/40	19.82	96.020	30	PASS
		106/53	<b>19.98</b>	<b>99.624</b>	30	PASS
		106/54	19.86	96.909	30	PASS
157	5785	SU	19.89	97.411	30	PASS
		RU	19.79	95.194	30	PASS
165	5825	SU	19.94	98.539	30	PASS
		RU	19.90	97.636	30	PASS
		26/8	19.86	96.726	30	PASS
		26/0	19.81	95.618	30	PASS
		52/40	19.89	97.580	30	PASS
		52/37	<b>19.93</b>	<b>98.483</b>	30	PASS
		106/54	19.88	97.356	30	PASS
		106/53	19.92	98.257	30	PASS

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## 802.11a\_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	14.62	4.25	18.87	77.063	23.01	PASS
44	5220	<b>17.84</b>	4.25	<b>22.09</b>	<b>161.751</b>	23.01	PASS
48	5240	17.83	4.25	22.08	161.379	23.01	PASS
52	5260	<b>17.88</b>	4.25	<b>22.13</b>	<b>163.248</b>	30	PASS
60	5300	17.77	4.25	22.02	159.165	30	PASS
64	5320	14.77	4.25	19.02	79.771	30	PASS
100	5500	17.89	4.25	22.14	163.624	30	PASS
116	5580	<b>17.90</b>	4.25	<b>22.15</b>	<b>164.001</b>	30	PASS
140	5700	<b>17.69</b>	4.25	<b>21.94</b>	<b>156.260</b>	30	PASS

## 802.11n\_HT20\_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	14.63	4.25	18.88	77.186	23.01	PASS
44	5220	18.22	4.25	22.47	176.417	23.01	PASS
48	5240	<b>18.26</b>	4.25	<b>22.51</b>	<b>178.049</b>	23.01	PASS
52	5260	<b>19.91</b>	4.25	<b>24.16</b>	<b>260.340</b>	30	PASS
60	5300	19.80	4.25	24.05	253.828	30	PASS
64	5320	14.65	4.25	18.90	77.543	30	PASS
100	5500	16.63	4.25	20.88	122.332	30	PASS
116	5580	<b>19.75</b>	4.25	<b>24.00</b>	<b>250.923</b>	30	PASS
140	5700	<b>15.96</b>	4.25	<b>20.21</b>	<b>104.843</b>	30	PASS

## 802.11ac\_VHT20\_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	14.55	4.25	18.80	75.885	23.01	PASS
44	5220	18.13	4.25	22.38	173.043	23.01	PASS
48	5240	<b>18.19</b>	4.25	<b>22.44</b>	<b>175.451</b>	23.01	PASS
52	5260	<b>19.84</b>	4.25	<b>24.09</b>	<b>256.540</b>	30	PASS
60	5300	19.71	4.25	23.96	248.975	30	PASS
64	5320	14.53	4.25	18.78	75.536	30	PASS
100	5500	16.52	4.25	20.77	119.441	30	PASS
116	5580	<b>19.72</b>	4.25	<b>23.97</b>	<b>249.549</b>	30	PASS
140	5700	<b>15.90</b>	4.25	<b>20.15</b>	<b>103.551</b>	30	PASS

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## 802.11ax HE20\_Ch0

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	SU	15.39	4.25	19.64	91.962	23.01	PASS
		RU	14.13	4.25	18.38	68.803	23.01	PASS
		26/0	9.18	4.25	13.43	22.006	23.01	PASS
		26/8	9.05	4.25	13.30	21.357	23.01	PASS
		52/37	11.50	4.25	15.75	37.615	23.01	PASS
		52/40	10.34	4.25	14.59	28.798	23.01	PASS
		106/53	13.51	4.25	17.76	59.753	23.01	PASS
		106/54	13.45	4.25	17.70	58.934	23.01	PASS
44	5220	SU	18.48	4.25	22.73	187.330	23.01	PASS
		RU	18.04	4.25	22.29	169.281	23.01	PASS
48	5240	SU	18.55	4.25	22.80	190.374	23.01	PASS
		RU	18.32	4.25	22.57	180.554	23.01	PASS
52	5260	SU	<b>19.90</b>	4.25	<b>24.15</b>	<b>259.781</b>	30	PASS
		RU	19.83	4.25	24.08	255.628	30	PASS
60	5300	SU	19.87	4.25	24.12	257.993	30	PASS
		RU	19.74	4.25	23.99	250.385	30	PASS
64	5320	SU	14.11	4.25	18.36	68.487	30	PASS
		RU	14.34	4.25	18.59	72.212	30	PASS
		26/8	9.36	4.25	13.61	22.937	30	PASS
		26/0	14.72	4.25	18.97	78.803	30	PASS
		52/40	16.01	4.25	20.26	106.258	30	PASS
		52/37	12.25	4.25	16.50	44.706	30	PASS
		106/54	19.81	4.25	24.06	254.896	30	PASS
		106/53	19.77	4.25	24.02	252.559	30	PASS
100	5500	SU	12.31	4.25	16.56	45.249	30	PASS
		RU	19.32	4.25	23.57	227.304	30	PASS
		26/0	14.43	4.25	18.68	73.713	30	PASS
		26/8	14.34	4.25	18.59	72.201	30	PASS
		52/37	16.04	4.25	20.29	106.995	30	PASS
		52/40	14.92	4.25	19.17	82.673	30	PASS
		106/53	15.31	4.25	19.56	90.440	30	PASS
		106/54	16.55	4.25	20.80	120.327	30	PASS
116	5580	SU	<b>19.87</b>	4.25	<b>24.12</b>	<b>257.993</b>	30	PASS
		RU	19.79	4.25	24.04	253.284	30	PASS
140	5700	SU	13.75	4.25	18.00	63.039	30	PASS
		RU	14.78	4.25	19.03	79.911	30	PASS
		26/8	12.65	4.25	16.90	48.926	30	PASS
		26/0	9.06	4.25	13.31	21.406	30	PASS
		52/40	<b>13.64</b>	4.25	<b>17.89</b>	<b>61.569</b>	30	PASS
		52/37	13.50	4.25	17.75	59.616	30	PASS
		106/54	<b>13.78</b>	4.25	<b>18.03</b>	<b>63.586</b>	30	PASS
		106/53	13.74	4.25	17.99	63.003	30	PASS

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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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 Ponit	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		Access Point	EIRP ≤ 20dBm/ MHz	Not required
	V	Other	EIRP ≤ 14dBm/ MHz	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.				

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f (886-2) 2298-0488

www.sgs.com.tw

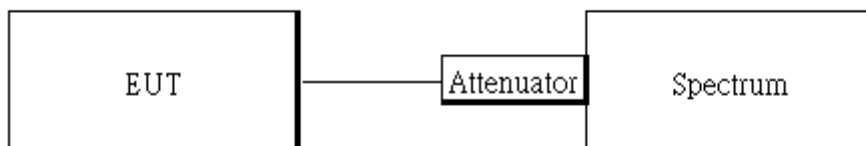
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## 10.2 ISED Standard

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		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  $10 \log(500 \text{ kHz/RBW})$  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.  
(2)Duty cycle  $< 98\%$  : 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.

**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

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	3.443	0.00	3.44		11.00 dBm/MHz	-7.56
5220	5.429	0.00	5.43		11.00 dBm/MHz	-5.57
5240	5.177	0.00	5.18		11.00 dBm/MHz	-5.82
5260	5.582	0.00	5.58		11.00 dBm/MHz	-5.42
5300	5.585	0.00	5.59		11.00 dBm/MHz	-5.42
5320	3.030	0.00	3.03		11.00 dBm/MHz	-7.97
5500	5.624	0.00	5.62		11.00 dBm/MHz	-5.38
5580	5.822	0.00	5.82		11.00 dBm/MHz	-5.18
5700	4.857	0.00	4.86		11.00 dBm/MHz	-6.14
5720 (U-NII 2C)	5.596	0.00	5.60		11.00 dBm/MHz	-5.40
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)	0.599	0.00	2.22	2.82	30.00 dBm/500kHz	-27.18
5745	1.257	0.00	2.22	3.48	30.00 dBm/500kHz	-26.52
5785	1.275	0.00	2.22	3.50	30.00 dBm/500kHz	-26.51
5825	0.922	0.00	2.22	3.14	30.00 dBm/500kHz	-26.86
5845 (U-NII 3)	-0.445	0.00	3.22	2.78	30.00 dBm/500kHz	-27.23
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maximum Corr'd PSD(dBm/MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit	Margin (dB)
5845 (U-NII4)	3.890	0.00	3.89	7.89	14.00 dBm/MHz	-10.11
5865	4.742	0.00	4.74	8.74	14.00 dBm/MHz	-9.26
5885	4.503	0.00	4.50	8.50	14.00 dBm/MHz	-9.50

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POWER DENSITY 802.11n HT20 MODE						
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maximum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	2.830	0.00	2.83		11.00 dBm/MHz	-8.17
5220	5.665	0.00	5.67		11.00 dBm/MHz	-5.34
5240	4.879	0.00	4.88		11.00 dBm/MHz	-6.12
5260	7.446	0.00	7.45		11.00 dBm/MHz	-3.55
5300	6.960	0.00	6.96		11.00 dBm/MHz	-4.04
5320	2.648	0.00	2.65		11.00 dBm/MHz	-8.35
5500	4.894	0.00	4.89		11.00 dBm/MHz	-6.11
5580	7.185	0.00	7.19		11.00 dBm/MHz	-3.82
5700	4.991	0.00	4.99		11.00 dBm/MHz	-6.01
5720 (U-NII 2C)	7.398	0.00	7.40		11.00 dBm/MHz	-3.60
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)	1.799	0.00	2.22	4.02	30.00 dBm/500kHz	-25.98
5745	2.457	0.00	2.22	4.68	30.00 dBm/500kHz	-25.32
5785	2.932	0.00	2.22	5.15	30.00 dBm/500kHz	-24.85
5825	2.550	0.00	2.22	4.77	30.00 dBm/500kHz	-25.23
5845 (U-NII 3)	1.190	0.00	3.22	4.41	30.00 dBm/500kHz	-25.59
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maximum Corr'd PSD(dBm/MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit	Margin (dB)
5845 (U-NII4)	5.753	0.00	5.75	10.00	14.00 dBm/MHz	-8.25
5865	6.448	0.00	6.45	10.70	14.00 dBm/MHz	-7.55
5885	6.186	0.00	6.19	10.44	14.00 dBm/MHz	-7.81

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POWER DENSITY 802.11ax HE20 MODE						
Frequency (MHz)	RU config.	ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)	Limit	Margin (dB)
5180	SU	3.692	0.00	3.69	11.00 dBm/MHz	-7.31
	RU	2.407	0.00	2.41	11.00 dBm/MHz	-8.59
	26/0	5.524	0.14	5.66	11.00 dBm/MHz	-5.34
	26/8	5.434	0.14	5.57	11.00 dBm/MHz	-5.43
	52/37	4.834	0.13	4.96	11.00 dBm/MHz	-6.04
	52/40	5.430	0.13	5.56	11.00 dBm/MHz	-5.44
	106/53	5.388	0.13	5.52	11.00 dBm/MHz	-5.48
	106/54	3.862	0.13	3.99	11.00 dBm/MHz	-7.01
5220	SU	5.300	0.00	5.30	11.00 dBm/MHz	-5.70
	RU	5.615	0.00	5.62	11.00 dBm/MHz	-5.39
5240	SU	4.838	0.00	4.84	11.00 dBm/MHz	-6.16
	RU	5.513	0.00	5.51	11.00 dBm/MHz	-5.49
5260	SU	6.990	0.00	6.99	11.00 dBm/MHz	-4.01
	RU	7.381	0.00	7.38	11.00 dBm/MHz	-3.62
5300	SU	5.814	0.00	5.81	11.00 dBm/MHz	-5.19
	RU	7.271	0.00	7.27	11.00 dBm/MHz	-3.73
5320	SU	3.252	0.00	3.25	11.00 dBm/MHz	-7.75
	RU	2.648	0.00	2.65	11.00 dBm/MHz	-8.35
	26/8	10.083	0.14	10.22	11.00 dBm/MHz	-0.78
	26/0	10.498	0.14	10.64	11.00 dBm/MHz	-0.36
	52/40	10.568	0.13	10.71	11.00 dBm/MHz	-0.29
	52/37	10.478	0.13	10.62	11.00 dBm/MHz	-0.38
	106/54	7.812	0.13	7.95	11.00 dBm/MHz	-3.05
	106/53	7.723	0.13	7.86	11.00 dBm/MHz	-3.14
5500	SU	0.946	0.00	0.95	11.00 dBm/MHz	-10.05
	RU	7.317	0.00	7.32	11.00 dBm/MHz	-3.68
	26/0	10.238	0.14	10.38	11.00 dBm/MHz	-0.62
	26/8	9.948	0.14	10.09	11.00 dBm/MHz	-0.91
	52/37	10.652	0.13	10.79	11.00 dBm/MHz	-0.21
	52/40	10.307	0.13	10.45	11.00 dBm/MHz	-0.55
	106/53	10.551	0.13	10.69	11.00 dBm/MHz	-0.31
	106/54	8.758	0.13	8.90	11.00 dBm/MHz	-2.10
5580	SU	7.175	0.00	7.18	11.00 dBm/MHz	-3.83
	RU	7.515	0.00	7.52	11.00 dBm/MHz	-3.49
5700	SU	2.271	0.00	2.27	11.00 dBm/MHz	-8.73
	RU	2.902	0.00	2.90	11.00 dBm/MHz	-8.10
	26/8	10.092	0.14	10.23	11.00 dBm/MHz	-0.77
	26/0	6.618	0.14	6.76	11.00 dBm/MHz	-4.24
	52/40	5.865	0.13	6.01	11.00 dBm/MHz	-5.00
	52/37	8.296	0.13	8.44	11.00 dBm/MHz	-2.56
	106/54	6.256	0.13	6.40	11.00 dBm/MHz	-4.60
	106/53	3.235	0.13	3.38	11.00 dBm/MHz	-7.63
5720 (U-NII 2C)	SU	6.761	0.00	6.76	11.00 dBm/MHz	-4.24
	RU	7.693	0.00	7.69	11.00 dBm/MHz	-3.31

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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	0.962	0.00	2.22	3.18	30.00 dBm/500kHz	-26.82
	RU	2.134	0.00	2.22	4.35	30.00 dBm/500kHz	-25.65
5745	SU	2.422	0.00	2.22	4.64	30.00 dBm/500kHz	-25.36
	RU	2.525	0.00	2.22	4.75	30.00 dBm/500kHz	-25.26
	26/0	10.852	0.14	2.22	13.21	30.00 dBm/500kHz	-16.79
	26/8	10.399	0.14	2.22	12.76	30.00 dBm/500kHz	-17.24
	52/37	7.664	0.13	2.22	10.02	30.00 dBm/500kHz	-19.98
	52/40	8.990	0.13	2.22	11.35	30.00 dBm/500kHz	-18.65
	106/53	6.044	0.13	2.22	8.40	30.00 dBm/500kHz	-21.60
	106/54	6.321	0.13	2.22	8.68	30.00 dBm/500kHz	-21.32
5785	SU	2.459	0.00	2.22	4.68	30.00 dBm/500kHz	-25.32
	RU	3.211	0.00	2.22	5.43	30.00 dBm/500kHz	-24.57
5825	SU	2.381	0.00	2.22	4.60	30.00 dBm/500kHz	-25.40
	RU	2.611	0.00	2.22	4.83	30.00 dBm/500kHz	-25.17
	26/8	10.833	0.14	2.22	13.19	30.00 dBm/500kHz	-16.81
	26/0	11.076	0.14	2.22	13.44	30.00 dBm/500kHz	-16.56
	52/40	9.788	0.13	2.22	12.15	30.00 dBm/500kHz	-17.85
	52/37	8.501	0.13	2.22	10.86	30.00 dBm/500kHz	-19.14
	106/54	6.878	0.13	2.22	9.24	30.00 dBm/500kHz	-20.76
	106/53	6.863	0.13	2.22	9.22	30.00 dBm/500kHz	-20.78
5845 (U-NII 3)	SU	1.879	0.00	3.22	5.10	30.00 dBm/500kHz	-24.90
	RU	0.316	0.00	3.22	3.54	30.00 dBm/500kHz	-26.46

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Frequency (MHz)		ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)	EIRP PSD (dBm/MHz)	EIRP PSD Limit	Margin (dB)
5845 (U-NII4)	SU	5.198	0.00	5.20	9.45	14.00 dBm/MHz	-8.80
	RU	5.318	0.00	5.32	9.57	14.00 dBm/MHz	-8.68
5845	26/0	9.263	0.14	9.26	13.51	14.00 dBm/MHz	-4.74
	26/8	13.860	0.14	13.86	18.11	14.00 dBm/MHz	-0.14
	52/37	7.807	0.13	7.81	12.06	14.00 dBm/MHz	-6.19
	52/40	12.720	0.13	12.72	16.97	14.00 dBm/MHz	-1.28
	106/53	5.704	0.13	5.70	9.95	14.00 dBm/MHz	-8.30
	106/54	9.344	0.13	9.34	13.59	14.00 dBm/MHz	-4.66
5865	SU	6.857	0.00	6.86	11.11	14.00 dBm/MHz	-7.14
	RU	6.088	0.00	6.09	10.34	14.00 dBm/MHz	-7.91
5885	SU	-0.062	0.00	-0.06	4.19	14.00 dBm/MHz	-14.06
	RU	3.136	0.00	3.14	7.39	14.00 dBm/MHz	-10.86
	26/8	-1.306	0.14	-1.17	3.08	14.00 dBm/MHz	-15.17
	26/0	13.360	0.14	13.50	17.75	14.00 dBm/MHz	-0.50
	52/40	2.169	0.13	2.31	6.56	14.00 dBm/MHz	-11.69
	52/37	13.640	0.13	13.78	18.03	14.00 dBm/MHz	-0.22
	106/54	-0.407	0.13	-0.27	3.98	14.00 dBm/MHz	-14.27
	106/53	10.730	0.13	10.87	15.12	14.00 dBm/MHz	-3.13

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EIRP spectral density 802.11a MODE						
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)	
5180	3.44	4.00	7.44	10	-2.56	
5220	5.43	4.00	9.43	10	-0.57	
5240	5.18	4.00	9.18	10	-0.82	
EIRP spectral density 802.11n HT20 MODE						
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)	
5180	2.83	4.25	7.08	10	-2.92	
5220	5.67	4.25	9.92	10	-0.09	
5240	4.88	4.25	9.13	10	-0.87	
EIRP spectral density 802.11ax HE20 MODE						
Freq. (MHz)	RU config.	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	SU	3.69	4.25	7.94	10	-2.06
	RU	2.41	4.25	6.66	10	-3.34
	26/0	5.66	4.25	9.91	10	-0.09
	26/8	5.57	4.25	9.82	10	-0.18
	52/37	4.96	4.25	9.21	10	-0.79
	52/40	5.56	4.25	9.81	10	-0.19
	106/53	5.52	4.25	9.77	10	-0.23
	106/54	3.99	4.25	8.24	10	-1.76
5220	SU	5.30	4.25	9.55	10	-0.45
	RU	5.62	4.25	9.87	10	-0.14
5240	SU	4.84	4.25	9.09	10	-0.91
	RU	5.51	4.25	9.76	10	-0.24

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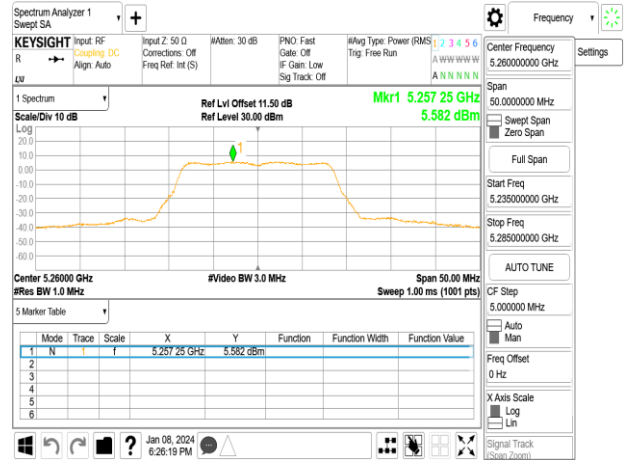
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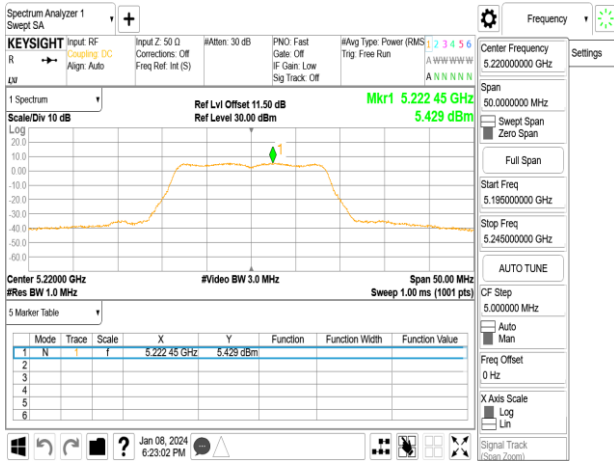
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802.11a\_20MHz\_Chain0\_5260MHz



802.11a\_20MHz\_Chain0\_5220MHz



802.11a\_20MHz\_Chain0\_5300MHz



802.11a\_20MHz\_Chain0\_5240MHz



802.11a\_20MHz\_Chain0\_5320MHz

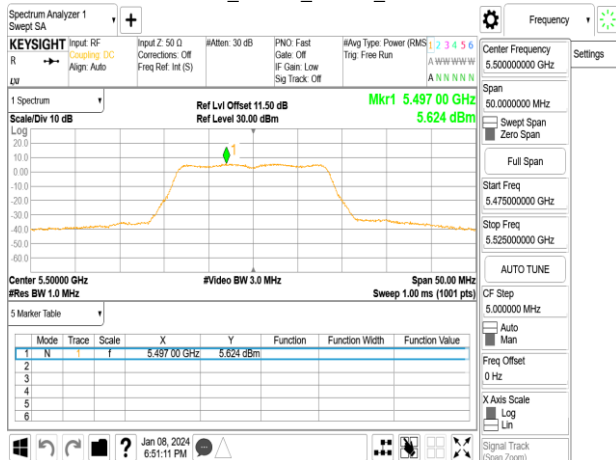


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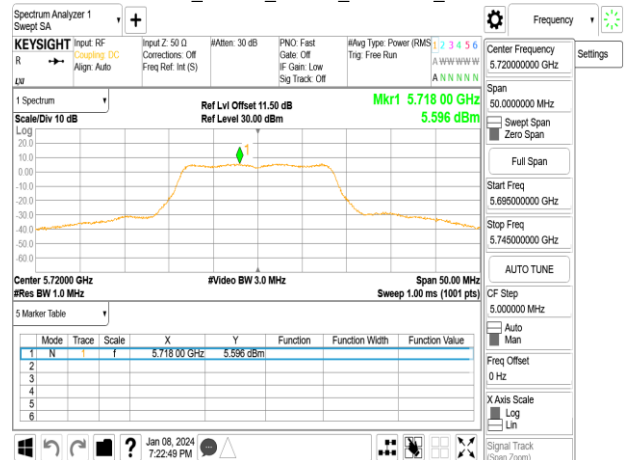
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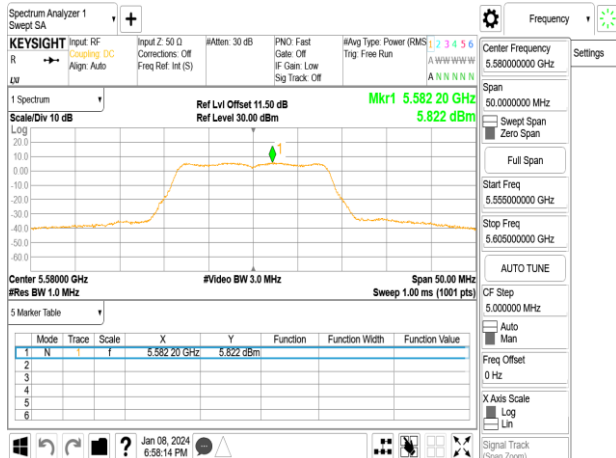
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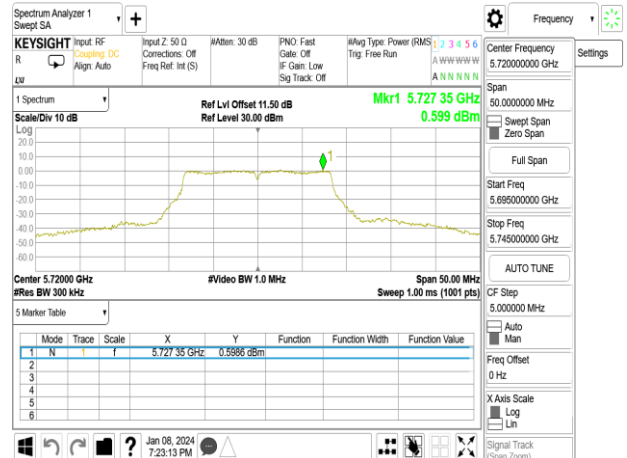
802.11a\_20MHz\_Chain0\_5720MHz\_UNII 2C



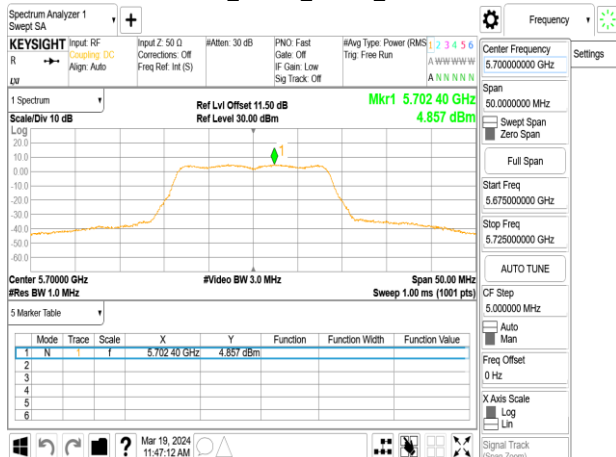
802.11a\_20MHz\_Chain0\_5580MHz



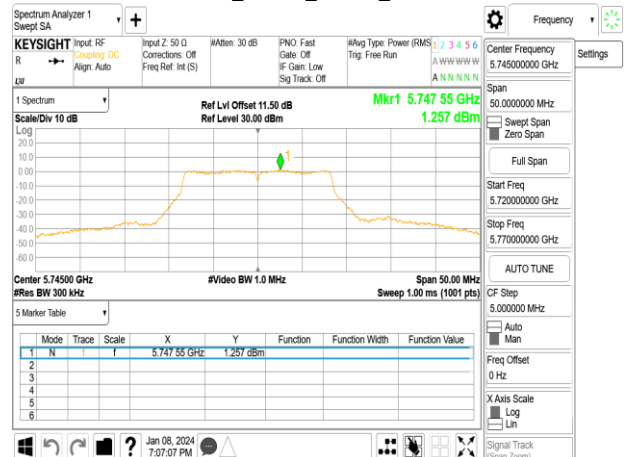
802.11a\_20MHz\_Chain0\_5720MHz\_UNII 3



802.11a\_20MHz\_Chain0\_5700MHz



802.11a\_20MHz\_Chain0\_5745MHz



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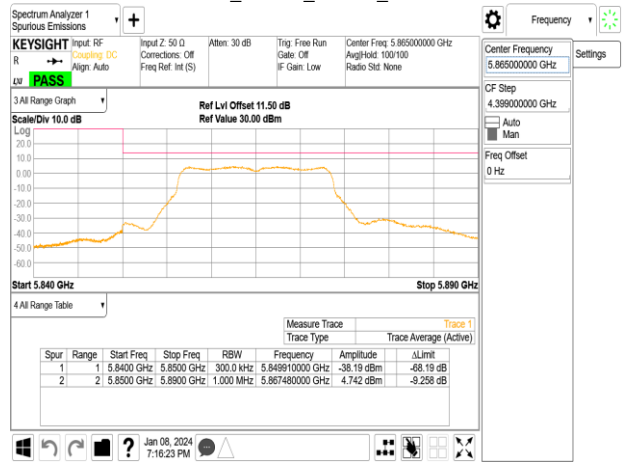
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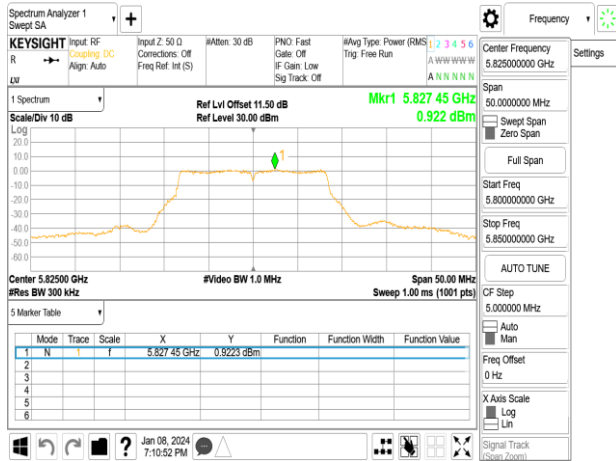
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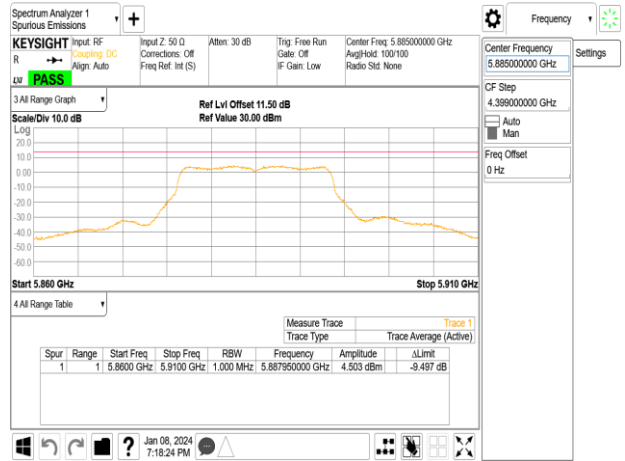
802.11a\_20MHz\_Chain0\_5865MHz



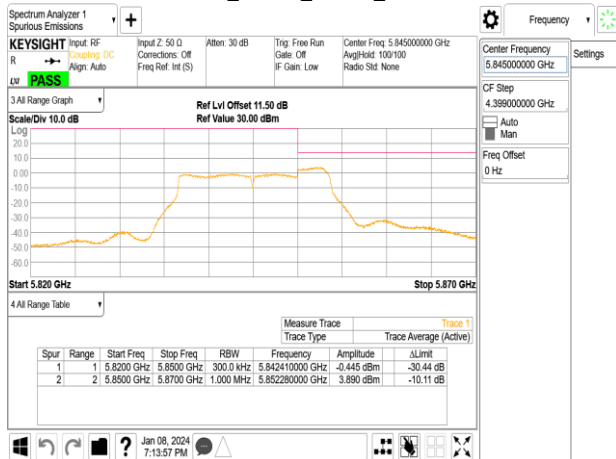
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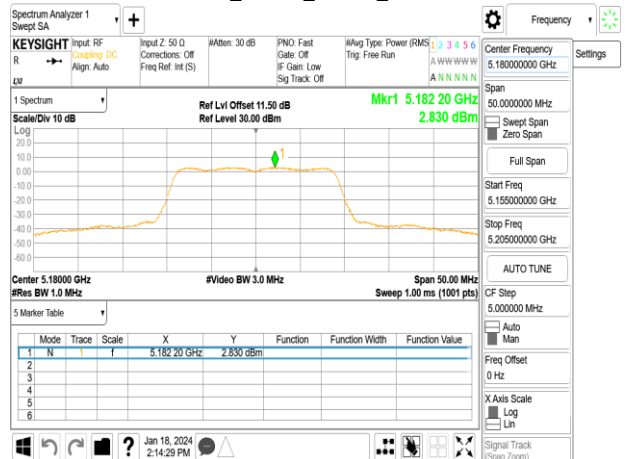
802.11a\_20MHz\_Chain0\_5885MHz



802.11a\_20MHz\_Chain0\_5845MHz



802.11n\_20MHz\_Chain0\_5180MHz

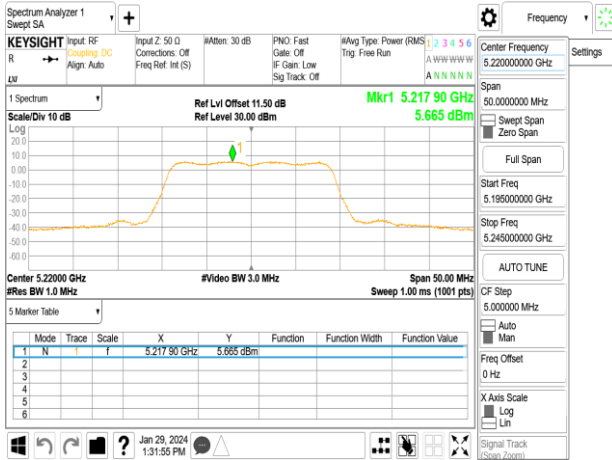


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

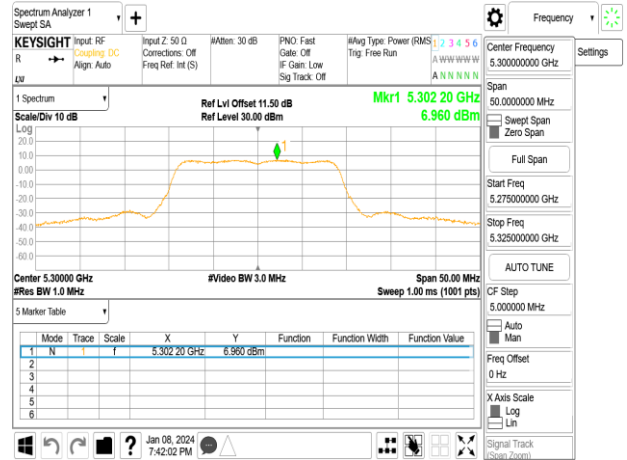
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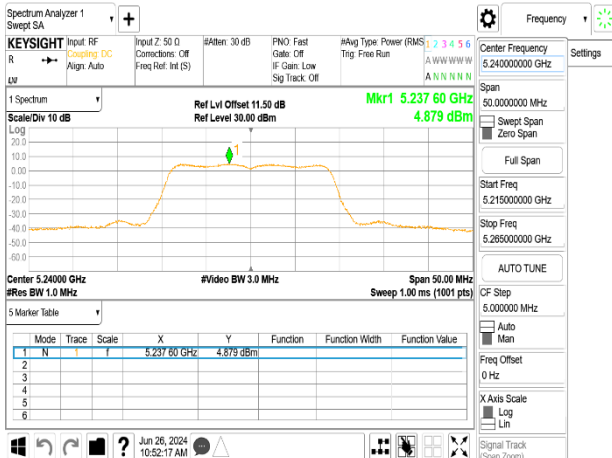
802.11n\_20MHz\_Chain0\_5220MHz



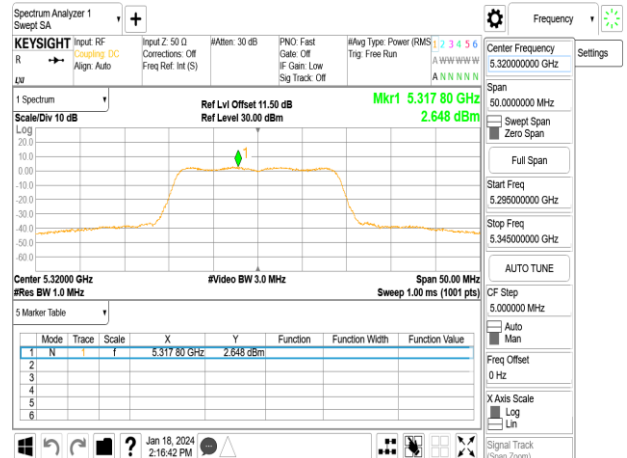
802.11n\_20MHz\_Chain0\_5300MHz



802.11n\_20MHz\_Chain0\_5240MHz



802.11n\_20MHz\_Chain0\_5320MHz



802.11n\_20MHz\_Chain0\_5260MHz



802.11n\_20MHz\_Chain0\_5500MHz



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