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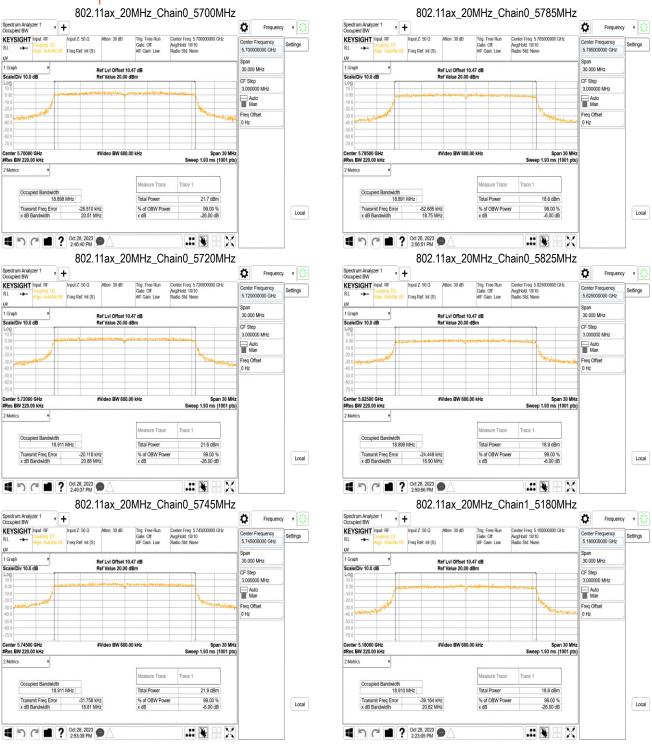
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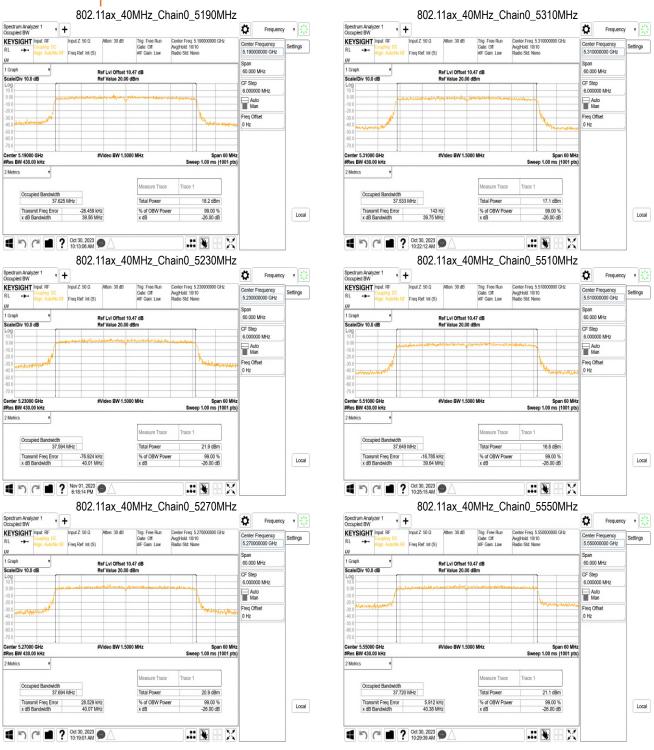
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9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

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 F		C				
				e-CRF Title	47 §15.407	
Band	EUT CATEGORY		Conducted Output Power	EIRP	TPC	Antenna Directional Gain Requirements
		Fixed point-to- point	1 Watt(30dBm)	Not required	Not required	23dBi
U-NII-1	U-NII-1		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	٧	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	٧	Other	250mW(23.98dBm) or 11dBm+10 log B	Not required	,	6dBi
	٧	Other	1 Watt(30dBm)	Not required	Not required	6dBi
U-NII-3		Fixed point-to- point	1 Watt(30dBm)	Not required	Not required	Not required
		Indoor AP (a channel spans 5725~5850 and 5850~5895MHz)	Not required	36dBm	Not required	Not required
U-NII-4		indoor client (a channel spans 5725~5850 and 5850~5895MHz)	Not required	30dBm	Not required	Not required
i		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.

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



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9.1.3

FREQUENC			RSS-247 §	6.2.1~6.2.4	
Y BAND (MHz)	C	EUT CATEGORY	EIRP	Conducted Output Power	TPC
		OEM devices installed in vehicles	30 mW or 1.76 + 10 log10B	N/A	At least 3dB below 30mW EIRP
5150~5250	٧	Other device	200 mW or 10 + 10 log10B dBm	N/A	N/A
		OEM devices installed in vehicles	30 mW or 1.76 + 10 log10B	N/A	At least 3dB below 30mW EIRP
	٧	Other device	1.0 W or 17 + 10 log10B dBm	250 mW or 11 +10 log10B	EIRP >500mW, at least 6dB below 1W EIRP
5250~5350	Outdoor Fixed EIRP>200m		-13 dBW/MHz for 0°≤ θ< 8° -13 −0.716 (θ-8) dBW/MHz for 8° ≤ θ< 40° -35.9 −1.22 (θ-40) dBW/MHz for 40° ≤ θ ≤ 45° -42 dBW/MHz for θ > 45°	N/A	EIRP >500mW, at least 6dB below 1W EIRP
5470-5600 and 5650-5725	٧	All	1.0 W or 17 + 10 log10B dBm	250 mW or 11 +10 log10B	EIRP >500mW, at least 6dB below 1W EIRP
5725~5850	٧	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.

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^{2.} For the 10 log B, B is the 99% emission bandwidth.



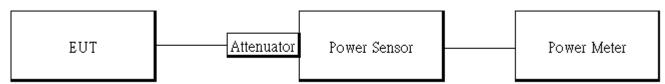
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9.2 Test Setup

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

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.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
- 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.

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Note

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

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

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

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 greater than 6 dBi, therefore the power limit has been 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	91.65	0.38	0.51	1.00
802.11n_20	79.87	0.98	0.18	1.00
802.11ac_20	79.45	1.00	0.18	1.00
802.11n_40	78.64	1.04	0.18	1.00
802.11ac_40	79.80	0.98	0.18	1.00
802.11ac_80	79.38	1.00	0.18	1.00
802.11ac_160	79.57	0.99	0.18	1.00
802.11ax_20	79.75	0.98	0.18	1.00
802.11ax_40	79.84	0.98	0.18	1.00
802.11ax_80	79.84	0.98	0.18	1.00
802.11ax_160	79.75	0.98	0.18	1.00

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(1) C (20, 2023



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9.5 **Output Power Measurement Result**

9.5.1 **FCC Output power**

802.11a 2TX

	Frequency	Data	Power	Avg. POV	/ER (dBm)	TOTAL	TOTAL	REQUIRED	
СН	(MHz)	Rate	set	Ch0	Ch1	POWER (dBm)	POWER (mW)	LIMIT (dBm)	RESULT
36	5180	6	12.5	13.09	13.16	16.13	41.059	29.77	PASS
44	5220	6	16.5	16.41	16.16	19.30	85.031	29.77	PASS
48	5240	6	16.5	16.57	16.24	19.42	87.440	29.77	PASS
52	5260	6	16.5	16.60	16.20	19.41	87.369	23.06	PASS
60	5300	6	16.5	16.25	16.42	19.34	85.996	23.06	PASS
64	5320	6	13	13.31	13.09	16.21	41.787	23.06	PASS
100	5500	6	13	13.60	13.24	16.43	43.982	22.69	PASS
116	5580	6	16.5	16.38	16.32	19.36	86.280	22.69	PASS
140	5700	6	14.5	15.10	14.70	17.91	61.853	22.69	PASS
144	5720(U-NII 2C)	6	16.5	15.35	14.76	18.08	64.200	22.6	PASS
144	5720 (U-NII 3)	6	16.5	10.24	9.92	13.09	20.367	29.07	PASS
149	5745	6	16.5	16.26	16.04	19.16	82.421	29.07	PASS
157	5785	6	14	14.19	14.03	17.12	51.519	29.07	PASS
165	5825	6	13.5	13.82	13.47	16.66	46.318	29.07	PASS

802.11n_HT20_2TX

СН	Frequency	Data	Power	Avg. POV	/ER (dBm)	TOTAL	TOTAL	REQUIRED	DECLUT
Сп	(MHz)	Rate	set	Ch0	Ch1	POWER (dBm)	POWER (mW)	LIMIT (dBm)	RESULT
36	5180	MCS0	13.5	13.55	13.38	16.47	44.384	29.77	PASS
44	5220	MCS0	17	16.29	16.02	19.16	82.481	29.77	PASS
48	5240	MCS0	17	16.26	15.89	19.09	81.010	29.77	PASS
52	5260	MCS0	17	16.26	15.87	19.08	80.832	23.06	PASS
60	5300	MCS0	17	16.40	15.64	19.04	80.224	23.06	PASS
64	5320	MCS0	13.5	13.50	13.00	16.26	42.302	23.06	PASS
100	5500	MCS0	13.5	13.51	12.92	16.23	41.990	22.69	PASS
116	5580	MCS0	17.5	16.69	16.26	19.49	88.854	22.69	PASS
140	5700	MCS0	14.5	14.32	14.22	17.28	53.416	22.69	PASS
144	5720(U-NII 2C)	MCS0	17	15.18	14.62	17.92	61.928	22.69	PASS
144	5720 (U-NII 3)	MCS0	17	10.56	10.11	13.35	21.623	29.07	PASS
149	5745	MCS0	17	16.55	15.84	19.22	83.483	29.07	PASS
157	5785	MCS0	14	13.92	13.29	16.62	45.950	29.07	PASS
165	5825	MCS0	14.5	14.17	13.66	16.93	49.305	29.07	PASS

802.11ac_VHT20_2TX

011	Frequency	Data	Power	Avg. POV	/ER (dBm)	TOTAL	TOTAL	REQUIRED	DEOLUT
СН	(MHz)	Rate	set	Ch0	Ch1	POWER (dBm)	POWER (mW)	LIMIT (dBm)	RESULT
36	5180	MCS0	13.5	13.52	13.29	16.42	43.812	29.77	PASS
44	5220	MCS0	17	16.27	15.96	19.13	81.792	29.77	PASS
48	5240	MCS0	17	16.21	15.83	19.03	80.048	29.77	PASS
52	5260	MCS0	17	16.22	15.85	19.05	80.321	23.06	PASS
60	5300	MCS0	17	16.39	15.61	19.03	79.925	23.06	PASS
64	5320	MCS0	13.5	13.44	12.96	16.22	41.841	23.06	PASS
100	5500	MCS0	13.5	13.43	12.89	16.18	41.474	22.69	PASS
116	5580	MCS0	17.5	16.58	16.24	19.42	87.553	22.69	PASS
140	5700	MCS0	14.5	14.28	14.15	17.22	52.782	22.69	PASS
144	5720(U-NII 2C)	MCS0	17	15.13	14.55	17.86	61.129	22.69	PASS
144	5720 (U-NII 3)	MCS0	17	10.51	10.04	13.29	21.343	29.07	PASS
149	5745	MCS0	17	16.55	15.83	19.21	83.450	29.07	PASS
157	5785	MCS0	14	13.90	13.26	16.60	45.721	29.07	PASS
165	5825	MCS0	14.5	14.07	13.56	16.83	48.215	29.07	PASS

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	HT40	

	Frequency	Data	Power	Avg. POV	VER (dBm)	TOTAL	TOTAL	REQUIRED	
СН	(MHz)	Rate	set	Ch0	Ch1	POWER (dBm)	POWER (mW)	LIMIT (dBm)	RESULT
38	5190	MCS0	9	8.58	8.30	11.46	13.983	29.77	PASS
46	5230	MCS0	16.5	16.21	16.15	19.19	83.061	29.77	PASS
54	5270	MCS0	16.5	16.55	16.09	19.34	85.900	23.06	PASS
62	5310	MCS0	12	12.29	12.19	15.25	33.529	23.06	PASS
102	5510	MCS0	12	12.42	12.10	15.28	33.704	22.69	PASS
110	5550	MCS0	16.5	16.68	15.95	19.34	85.984	22.69	PASS
134	5670	MCS0	15	15.23	14.84	18.05	63.874	22.69	PASS
142	5710(U-NII 2C)	MCS0	16.5	15.74	15.57	18.67	73.564	29.07	PASS
142	5710 (U-NII 3)	MCS0	16.5	7.00	7.21	10.12	10.271	29.07	PASS
151	5755	MCS0	16.5	16.24	16.12	19.19	83.067	29.07	PASS
159	5795	MCS0	15	15.07	14.61	17.86	61.094	29.07	PASS

802.11ac_VHT40_2TX

СН	Frequency	Data	Power	Avg. POW	/ER (dBm)	TOTAL POWER	TOTAL POWER	REQUIRED LIMIT	RESULT
Сп	(MHz)	Rate	set	Ch0	Ch1	(dBm)	(mW)	(dBm)	RESULI
38	5190	MCS0	9	8.46	8.20	11.34	13.621	29.77	PASS
46	5230	MCS0	16.5	16.08	16.03	19.07	80.637	29.77	PASS
54	5270	MCS0	16.5	16.41	15.89	19.17	82.567	23.06	PASS
62	5310	MCS0	12	12.15	12.04	15.11	32.401	23.06	PASS
102	5510	MCS0	12	12.25	11.97	15.12	32.528	22.69	PASS
110	5550	MCS0	16.5	16.56	15.83	19.22	83.572	22.69	PASS
134	5670	MCS0	15	15.09	14.73	17.92	62.001	22.69	PASS
142	5710(U-NII 2C)	MCS0	16.5	15.61	15.37	18.50	70.776	22.69	PASS
142	5710 (U-NII 3)	MCS0	16.5	6.86	7.01	9.95	9.878	29.07	PASS
151	5755	MCS0	16.5	16.09	15.95	19.03	79.999	29.07	PASS
159	5795	MCS0	15	14.87	14.50	17.70	58.874	29.07	PASS

802.11ac_VHT80_2TX

OZ.I IAC_VIII	00_E1X								
СН	Frequency	Data	Power	Avg. POWER (dBm)		TOTAL POWER	TOTAL POWER	REQUIRED LIMIT	RESULT
On	(MHz)	Rate	set	Ch0	Ch1	(dBm)	(mW)	(dBm)	KLOOLI
42	5210	MCS0	8	8.00	6.99	10.54	11.317	29.77	PASS
58	5290	MCS0	12.5	12.60	12.33	15.48	35.321	23.06	PASS
106	5530	MCS0	12	12.22	11.86	15.06	32.040	22.69	PASS
122	5610	MCS0	15	14.97	15.28	18.14	65.177	22.69	PASS
138	5690(U-NII 2C)	MCS0	14.5	14.16	14.05	17.12	51.469	22.69	PASS
138	5690 (U-NII 3)	MCS0	14.5	2.88	2.80	5.85	3.847	29.07	PASS
155	5775	MCS0	14	14.47	14.00	17.25	53.144	29.07	PASS

802.11ac_VHT160_2TX

	СН	Frequency	Data	Power	Avg. POW	/ER (dBm)	TOTAL POWER	TOTAL POWER	REQUIRED LIMIT	RESULT
	CII	(MHz)	Rate	set	Ch0	Ch1	(dBm)	(mW)	(dBm)	KLSOLI
ĺ	50	5250	MCS0	9.5	9.37	8.57	12.00	15.853	23.06	PASS
	114	5570	MCS0	12	12.11	11.52	14.84	30.464	22.69	PASS

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0N2 4	112	HE20	2TV

СН	Frequency	Data	RU config.	Power	Avg. POV	VER (dBm)	TOTAL POWER	TOTAL POWER	REQUIRED LIMIT	RESULT
СП	(MHz)	Rate	KO Coning.	set	Ch0	Ch1	(dBm)	(mW)	(dBm)	KESULI
36	5180	MCS0	full	13	13.38	13.55	16.48	44.451	29.77	PASS
44	5220	MCS0	full	16.5	16.30	16.00	19.17	82.520	29.77	PASS
48	5240	MCS0	full	16.5	16.53	16.15	19.36	86.241	29.77	PASS
52	5260	MCS0	full	16.5	16.53	16.03	19.30	85.117	23.06	PASS
60	5300	MCS0	full	16.5	16.24	16.33	19.30	85.079	23.06	PASS
64	5320	MCS0	full	13	13.31	13.04	16.19	41.592	23.06	PASS
100	5500	MCS0	full	13	13.58	13.16	16.39	43.532	22.69	PASS
116	5580	MCS0	full	16.5	16.39	16.18	19.30	85.099	22.69	PASS
140	5700	MCS0	full	14	14.29	13.91	17.12	51.489	22.69	PASS
144	5720(U-NII 2C)	MCS0	full	16.5	15.14	14.58	17.88	61.364	22.69	PASS
144	5720 (U-NII 3)	MCS0	full	16.5	10.66	10.01	13.36	21.672	29.07	PASS
149	5745	MCS0	full	16.5	16.21	16.04	19.14	82.013	29.07	PASS
157	5785	MCS0	full	13.5	13.90	14.02	16.97	49.813	29.07	PASS
165	5825	MCS0	full	14	14.04	13.80	16.93	49.370	29.07	PASS

802.11ax HE40 2TX

O.I.	Frequency	Data	Dil soufin	Power	Avg. POV	VER (dBm)	TOTAL	TOTAL	REQUIRED	DECLUT
СН	(MHz)	Rate	RU config.	set	Ch0	Ch1	POWER (dBm)	POWER (mW)	LIMIT (dBm)	RESULT
38	5190	MCS0	full	8.5	8.67	7.91	11.31	13.535	29.77	PASS
46	5230	MCS0	full	16.5	16.43	16.15	19.30	85.121	29.77	PASS
54	5270	MCS0	full	16.5	16.69	16.25	19.48	88.790	23.06	PASS
62	5310	MCS0	full	12	12.57	12.21	15.40	34.688	23.06	PASS
102	5510	MCS0	full	12	12.54	12.20	15.38	34.526	22.69	PASS
110	5550	MCS0	full	16.5	16.74	16.01	19.40	34.526	22.69	PASS
134	5670	MCS0	full	14	14.62	14.23	17.44	55.430	22.69	PASS
142	5710(U-NII 2C)	MCS0	full	16.5	15.84	15.57	18.72	74.482	22.69	PASS
142	5710 (U-NII 3)	MCS0	full	16.5	7.34	7.25	10.31	10.728	29.07	PASS
151	5755	MCS0	full	16.5	16.30	16.25	19.28	84.785	29.07	PASS
159	5795	MCS0	full	15	15.07	14.84	17.96	62.584	29.07	PASS

802.11ax HE80 2TX

СН	Frequency	Data	Dillognfin	Power	Avg. POV	/ER (dBm)	TOTAL POWER	TOTAL POWER	REQUIRED LIMIT	RESULT
Сп	(MHz)	Rate	RU config.	set	Ch0	Ch1	(dBm)	(mW)	(dBm)	KESULI
42	5210	MCS0	full	8	8.41	7.30	10.90	12.298	29.77	PASS
58	5290	MCS0	full	12	12.38	11.99	15.20	33.094	23.06	PASS
106	5530	MCS0	full	12	12.66	12.21	15.45	35.066	22.69	PASS
122	5610	MCS0	full	15	15.08	15.24	18.17	65.597	22.69	PASS
138	5690(U-NII 2C)	MCS0	full	14	13.91	13.82	16.88	48.709	22.69	PASS
138	5690 (U-NII 3)	MCS0	full	14	2.52	2.52	5.53	3.570	29.07	PASS
155	5775	MCS0	full	14	14.64	14.19	17.43	55.321	29.07	PASS

802.11ax_HE160_2TX

СН	Frequency	Data	Data RU config.		Avg. POV	/ER (dBm)	TOTAL POWER	TOTAL POWER	REQUIRED LIMIT	RESULT
CII	(MHz)	Rate	Ko comig.	set	Ch0	Ch1	(dBm)	(mW)	(dBm)	KLSOLI
50	5250	MCS0	full	9.5	9.51	8.64	12.11	16.255	23.06	PASS
114	5570	MCS0	full	12	12.01	11.82	14.93	31.110	22.69	PASS

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9.5.2 ISED Conducted output power and EIRP

802.11a 2TX

СН	Frequency		E POWER 3m)	TOTAL POWER	TOTAL POWER	REQUIRED LIMIT	RESULT	
CII	(MHz)	Ch0	Ch1	(dBm)	(mW)	(dBm)	REJULI	
52	5260	16.60	16.20	19.41	87.369	23.14	PASS	
60	5300	16.25	16.42	19.34	85.996	23.14	PASS	
64	5320	13.31	13.09	16.21	41.787	23.13	PASS	
100	5500	13.60	13.24	16.43	43.982	23.13	PASS	
116	5580	16.38	16.32	19.36	86.280	23.15	PASS	
140	5700	15.10	14.70	17.91	61.853	23.14	PASS	
144	5720(U-NII 2C)	15.35	14.76	18.08	64.200	22.2	PASS	
144	5720 (U-NII 3)	10.24	9.92	13.09	20.367	29.07	PASS	
149	5745	16.26	16.04	19.16	82.421	29.07	PASS	
157	5785	14.19	14.03	17.12	51.519	29.07	PASS	
165	5825	13.82	13.47	16.66	46.318	29.07	PASS	

802.11n HT20 2TX

СН	Frequency	_	E POWER 3m)	TOTAL POWER	TOTAL POWER	REQUIRED LIMIT	RESULT
OII	(MHz)	Ch0	Ch1	(dBm)	(mW)	(dBm)	KLSOLI
52	5260	16.26	15.87	19.08	80.832	23.44	PASS
60	5300	16.40	15.64	19.04	80.224	23.44	PASS
64	5320	13.50	13.00	16.26	42.302	23.44	PASS
100	5500	13.51	12.92	16.23	41.990	23.44	PASS
116	5580	16.69	16.26	19.49	88.854	23.46	PASS
140	5700	14.32	14.22	17.28	53.416	23.45	PASS
144	5720(U-NII 2C)	15.18	14.62	17.92	61.928	22.39	PASS
144	5720 (U-NII 3)	10.56	10.11	13.35	21.623	29.07	PASS
149	5745	16.55	15.84	19.22	83.483	29.07	PASS
157	5785	13.92	13.29	16.62	45.950	29.07	PASS
165	5825	14.17	13.66	16.93	49.305	29.07	PASS

802.11n_HT40_2TX

СН	Frequency		E POWER Bm)	TOTAL POWER	TOTAL POWER	REQUIRED LIMIT	RESULT
011	(MHz)	Ch0	Ch1	(dBm)	(mW)	(dBm)	REGOLI
54	5270	16.55	16.09	19.34	85.900	23.98	PASS
62	5310	12.29	12.19	15.25	33.529	23.98	PASS
102	5510	12.42	12.10	15.28	33.704	23.98	PASS
110	5550	16.68	15.95	19.34	85.984	23.98	PASS
134	5670	15.23	14.84	18.05	63.874	23.98	PASS
142	5710(U-NII 2C)	15.74	15.57	18.67	73.564	23.98	PASS
142	5710 (U-NII 3)	7.00	7.21	10.12	10.271	29.07	PASS
151	5755	16.24	16.12	19.19	83.067	29.07	PASS
159	5795	15.07	14.61	17.86	61.094	29.07	PASS

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802.11ac VHT20 2TX

СН	Frequency	_	E POWER 3m)	TOTAL POWER	TOTAL POWER	REQUIRED LIMIT	RESULT
OII	(MHz)	Ch0	Ch1	(dBm)	(mW)	(dBm)	KLOOLI
52	5260	16.22	15.85	19.05	80.321	23.44	PASS
60	5300	16.39	15.61	19.03	79.925	23.44	PASS
64	5320	13.44	12.96	16.22	41.841	23.44	PASS
100	5500	13.43	12.89	16.18	41.474	23.44	PASS
116	5580	16.58	16.24	19.42	87.553	23.46	PASS
140	5700	14.28	14.15	17.22	52.782	23.45	PASS
144	5720(U-NII 2C)	15.13	14.55	17.86	61.129	22.39	PASS
144	5720 (U-NII 3)	10.51	10.04	13.29	21.343	29.07	PASS
149	5745	16.55	15.83	19.21	83.450	29.07	PASS
157	5785	13.90	13.26	16.60	45.721	29.07	PASS
165	5825	14.07	13.56	16.83	48.215	29.07	PASS

802.11ac VHT40 2TX

СН	Frequency	_	E POWER 3m)	TOTAL POWER	TOTAL POWER	REQUIRED LIMIT	RESULT
GII	(MHz)	Ch0	Ch1	(dBm)	(mW)	(dBm)	KESOLI
54	5270	16.41	15.89	19.17	82.567	23.98	PASS
62	5310	12.15	12.04	15.11	32.401	23.98	PASS
102	5510	12.25	11.97	15.12	32.528	23.98	PASS
110	5550	16.56	15.83	19.22	83.572	23.98	PASS
134	5670	15.09	14.73	17.92	62.001	23.98	PASS
142	5710(U-NII 2C)	15.61	15.37	18.50	70.776	23.98	PASS
142	5710 (U-NII 3)	6.86	7.01	9.95	9.878	29.07	PASS
151	5755	16.09	15.95	19.03	79.999	29.07	PASS
159	5795	14.87	14.50	17.70	58.874	29.07	PASS

802.11ac VHT80 2TX

СН	Frequency		E POWER Bm)	TOTAL POWER	TOTAL POWER	REQUIRED LIMIT	RESULT
011	(MHz)	Ch0	Ch1	(dBm)	(mW)	(dBm)	KLOOLI
58	5290	12.60	12.33	15.48	35.321	23.98	PASS
106	5530	12.22	11.86	15.06	32.040	23.98	PASS
138	5710(U-NII 2C)	14.16	14.05	17.12	51.469	23.98	PASS
138	5690 (U-NII 3)	2.88	2.80	5.85	3.847	29.07	PASS
155	5775	14.47	14.00	17.25	53.144	29.07	PASS

802.11ac_VHT160_2TX

СН	Frequency	_	E POWER Bm)	TOTAL POWER	TOTAL POWER	REQUIRED LIMIT	RESULT
	(MHz)	Ch0	Ch1	(dBm)	(mW)	(dBm)	1120021
50	5250	9.37	8.57	12.00	15.853	23.98	PASS

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802.11ax HE20 2TX

СН	Frequency	RU config.		E POWER 3m)	TOTAL POWER	TOTAL POWER	REQUIRED LIMIT	RESULT
On	(MHz)	No comig.	Ch0	Ch1	(dBm)	(mW)	(dBm)	KLOOLI
52	5260	full	16.53	16.03	19.30	85.117	23.76	PASS
60	5300	full	16.24	16.33	19.30	85.079	23.76	PASS
64	5320	full	13.31	13.04	16.19	41.592	23.76	PASS
100	5500	full	13.58	13.16	16.39	43.532	23.76	PASS
116	5580	full	16.39	16.18	19.30	85.099	23.77	PASS
140	5700	full	14.29	13.91	17.12	51.489	23.76	PASS
144	5720(U-NII	full	15.14	14.58	17.88	61.364	22.6	PASS
144	5720 (U-NII 3)	full	10.66	10.01	13.36	21.672	29.07	PASS
149	5745	full	16.21	16.04	19.14	82.013	29.07	PASS
157	5785	full	13.90	14.02	16.97	49.813	29.07	PASS
165	5825	full	14.04	13.80	16.93	49.370	29.07	PASS

802.11ax HE40 2TX

СН	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER	TOTAL POWER	REQUIRED LIMIT	RESULT
			Ch0	Ch1	(dBm)	(mW)	(dBm)	KESOLI
54	5270	full	16.69	16.25	19.48	88.790	23.98	PASS
62	5310	full	12.57	12.21	15.40	34.688	23.98	PASS
102	5510	full	12.54	12.20	15.38	34.526	23.98	PASS
110	5550	full	16.74	16.01	19.40	87.065	23.98	PASS
134	5670	full	14.62	14.23	17.44	55.430	23.98	PASS
142	5710(U-NII	full	15.84	15.57	18.72	74.482	23.98	PASS
142	5710 (U-NII 3)	full	7.34	7.25	10.31	10.728	29.07	PASS
151	5755	full	16.30	16.25	19.28	84.785	29.07	PASS
159	5795	full	15.07	14.84	17.96	62.584	29.07	PASS

802.11ax HE80 2TX

СН	Frequency	cy RU config.	AVERAGE POWER (dBm)		TOTAL POWER	TOTAL POWER	REQUIRED LIMIT	RESULT
OII	(MHz)	No comig.	Ch0	Ch1	(dBm)	(mW)	(dBm)	KLSOLI
58	5290	full	12.38	11.99	15.20	33.094	23.98	PASS
106	5530	full	12.66	12.21	15.45	35.066	23.98	PASS
138	5690(U-NII	full	13.91	13.82	16.88	48.709	23.98	PASS
138	5690 (U-NII 3)	full	2.52	2.52	5.53	3.570	29.07	PASS
155	5775	full	14.64	14.19	17.43	55.321	29.07	PASS

802.11ax_HE160_2TX

СН	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER	TOTAL POWER	REQUIRED LIMIT	RESULT
		No comig.	Ch0	Ch1	(dBm)	(mW)	(dBm)	KEOOLI
		full	9.51	8.64	12.11	16.255	23.98	PASS
50	5250	996/67	0.98	0.98	0.00	1.000	23.98	PASS
		996/S67	0.98	0.98	0.00	1.000	23.98	PASS

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EIRP

802.11a 2TX

002.11a_	LIA						
СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	19.41	3.91	23.32	214.783	29.14	PASS
60	5300	19.34	3.91	23.25	211.349	29.14	PASS
64	5320	16.21	3.91	20.12	102.802	29.13	PASS
100	5500	16.43	4.275	20.71	117.761	29.13	PASS
116	5580	19.36	4.275	23.63	230.675	29.15	PASS
140	5700	17.91	4.275	22.19	165.577	29.14	PASS

802.11n_HT20_2TX

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	19.08	3.91	22.99	199.067	29.44	PASS
60	5300	19.04	3.91	22.95	197.242	29.44	PASS
64	5320	16.26	3.91	20.17	103.992	29.44	PASS
100	5500	16.23	4.275	20.51	112.460	29.44	PASS
116	5580	19.49	4.275	23.76	237.684	29.46	PASS
140	5700	17.28	4.275	21.55	142.889	29.45	PASS

802.11ac_VHT20_2TX

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	19.05	3.91	22.96	197.697	29.44	PASS
60	5300	19.03	3.91	22.94	196.789	29.44	PASS
64	5320	16.22	3.91	20.13	103.039	29.44	PASS
100	5500	16.18	4.275	20.45	110.917	29.44	PASS
116	5580	19.42	4.275	23.70	234.423	29.46	PASS
140	5700	17.22	4.275	21.50	141.254	29.45	PASS

802.11n_HT40_2TX

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	19.34	3.91	23.25	211.349	30	PASS
62	5310	15.25	3.91	19.16	82.414	30	PASS
102	5510	15.28	4.275	19.55	90.157	30	PASS
110	5550	19.34	4.275	23.62	230.144	30	PASS
134	5670	18.05	4.275	22.33	171.002	30	PASS

802.11ac VHT40 2TX

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	19.17	3.91	23.08	203.236	30	PASS
62	5310	15.11	3.91	19.02	79.799	30	PASS
102	5510	15.12	4.275	19.40	87.096	30	PASS
110	5550	19.22	4.275	23.50	223.872	30	PASS
134	5670	17.92	4.275	22.20	165.959	30	PASS

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802.11ac	VHT80	2TX
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СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	15.48	3.91	19.39	86.896	30	PASS
106	5530	15.06	4.275	19.33	85.704	30	PASS

802.11ax_HE20_2TX

СН	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	full	19.30	3.91	23.21	209.411	29.76	PASS
60	5300	full	19.30	3.91	23.21	209.411	29.76	PASS
64	5320	full	16.19	3.91	20.10	102.329	29.76	PASS
100	5500	full	16.39	4.275	20.66	116.413	29.76	PASS
116	5580	full	19.30	4.275	23.57	227.510	29.77	PASS
140	5700	full	17.12	4.275	21.39	137.721	29.76	PASS

802.11ax HE40 2TX

OOZ.II IUX	_11640_217							
СН	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	full	19.48	3.91	23.39	218.273	30	PASS
62	5310	full	15.40	3.91	19.31	85.310	30	PASS
102	5510	full	15.38	4.275	19.66	92.470	30	PASS
110	5550	full	19.40	4.275	23.67	232.809	30	PASS
134	5670	full	17.44	4.275	21.71	148.252	30	PASS

802.11ax_HE80_2TX

СН	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	full	15.20	3.91	19.11	81.470	30	PASS
106	5530	full	15.45	4.275	19.72	93.756	30	PASS

802.11a 2TX

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	14.19	3.22	17.41	55.081	22.14	PASS
44	5220	14.02	3.22	17.24	52.966	22.14	PASS
48	5240	14.49	3.22	17.71	59.020	22.14	PASS

802.11n_HT20_2TX

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	14.33	3.22	17.55	56.885	22.44	PASS
44	5220	14.09	3.22	17.31	53.827	22.44	PASS
48	5240	14.08	3.22	17.30	53.703	22.44	PASS

802.11ac_VHT20_2TX

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	14.30	3.22	17.52	56.494	22.44	PASS
44	5220	14.02	3.22	17.24	52.966	22.44	PASS
48	5240	14.06	3.22	17.28	53.456	22.44	PASS

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8	02	.11	ln	HT	40	2TX
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СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	11.40	3.22	14.62	28.973	23.01	PASS
46	5230	17.89	3.22	21.11	129.122	23.01	PASS

802.11ac_VHT40_2TX

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	11.27	3.22	14.49	28.119	23.01	PASS
46	5230	17.79	3.22	21.01	126.183	23.01	PASS

802.11ac_VHT80_2TX

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	10.54	3.22	13.76	23.768	23.01	PASS

802.11ac VHT160 2TX

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
50	5250	12.00	3.22	15.22	33.266	23.01	PASS

802.11ax HE20 2TX

СН	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	full	14.06	3.22	17.28	53.456	22.75	PASS
44	5220	full	14.47	3.22	17.69	58.749	22.75	PASS
48	5240	full	14.39	3.22	17.61	57.677	22.76	PASS

802.11ax HE40 2TX

СН	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	full	11.31	3.22	14.53	28.379	23.01	PASS
46	5230	full	18.04	3.22	21.26	133.660	23.01	PASS

802.11ax HE80 2TX

СН	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	full	10.90	3.22	14.12	25.823	23.01	PASS

802.11ax HE160 2TX

СН	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
50	5250	full	12.11	3.22	15.33	34.119	23.01	PASS

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10 MAXIMUM POWER SPECTRAL DENSITY

10.1 FCC Standard

Operatio n Bands	EUT CATEGORY		e-CRF Title 47 §15.407 Power Spectral Density	Antenna Directional Gain Requirements
		Outdoor Access Point (Master)	1. 17dBm/ MHz 2. EIRP<=125mW(21dBm) at any elevation angle > 30°	6dBi
U-NII-1	V Indoor Access Point (Master)		17dBm / MHz	6dBi
		Fixed point-to- point Access Ponit	17dBm / MHz	23dBi
		Client device	11dBm / MHz	6dBi
U-NII-2A	V	All	11dBm / MHz	6dBi
U-NII-2C	٧	All	11dBm / MHz	6dBi
U-NII-3	V	All	30dBm / 500kHz	6dBi
		Indoor AP	20dBm / MHz e.i.r.p.	Not required
U-NII-4		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.

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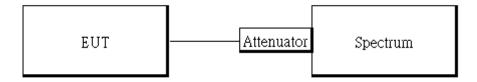
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10.2 ISED Standard

FREQUENC Y BAND	EUT CATEGORY		RSS-247 §6.2.1~6.2.4				
(MHz)			EIRP Density	Power Density			
5150~5250		OEM devices installed in vehicles	N/A	N/A			
	٧	Other device	10 dBm/MHz	N/A			
5250~5350		OEM devices installed in vehicles	N/A	N/A			
5250~5550	V	Other device	N/A	11 dBm/MHz			
5725~5850	٧	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



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.

User the cursor on spectrum to peak search the highest level of trace

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6. (1) Duty cycle \geq 98%: Record the max. reading. (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 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.

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

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

 $g_{i,k} = /20$ 10Gk if the kth antenna is being fed by spatial stream i, or zero if it is not; \hat{G}_k is the gain in dBi of the kth antenna.

The antenna gain is greater than 6 dBi, therefore the power limit has been attenuated accordingly.

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10.5 **Measurement Result**

		POWER DE	NSITY 802.11a MC	DDE			
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	1.597	2.420	0.38	5.	42	10.77 dBm/MHz	-5.35
5220	3.457	3.090	0.38	6.	67	10.77 dBm/MHz	-4.10
5240	3.355	3.546	0.38	6.	84	10.77 dBm/MHz	-3.93
5260	4.634	4.927	0.38	8.	17	10.08 dBm/MHz	-1.91
5300	4.461	4.620	0.38	7.	93	10.08 dBm/MHz	-2.15
5320	0.624	1.313	0.38	4.	37	10.08 dBm/MHz	-5.71
5500	1.433	1.320	0.38	4.	77	9.71 dBm/MHz	-4.94
5580	5.944	6.127	0.38	9.	43	9.71 dBm/MHz	-0.28
5700	5.773	6.059	0.38	9.	31	9.71 dBm/MHz	-0.40
5720 (U-NII 2C)	5.390	5.820	0.38	9.	00	9.71 dBm/MHz	-0.71
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	-0.290	0.070	0.38	2.22	5.50	29.07 dBm/500kHz	-23.57
5745	0.602	0.715	0.38	2.22	6.27	29.07 dBm/500kHz	-22.80
5785	-1.602	-1.860	0.38	2.22	3.88	29.07 dBm/500kHz	-25.19
5825	-2.143	-3.285	0.38	2.22 2.93		29.07 dBm/500kHz	-26.14
		POWER DENSI	TY 802.11n HT20	MODE			•
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd F	PSD(dBm/MHz)	Limit	Margin (dB)
5180	0.825	2.163	0.98	5.	54	10.77 dBm/MHz	-5.23
5220	3.245	2.442	0.98	6.	85	10.77 dBm/MHz	-3.92
5240	3.097	2.617	0.98	6.	85	10.77 dBm/MHz	-3.92
5260	3.594	4.591	0.98	8.	11	10.08 dBm/MHz	-1.97
5300	3.315	4.509	0.98	7.	94	10.08 dBm/MHz	-2.14
5320	0.564	0.712	0.98	4.	63	10.08 dBm/MHz	-5.45
5500	0.627	1.260	0.98	4.	95	9.71 dBm/MHz	-4.76
5580	5.605	5.591	0.98	9.	59	9.71 dBm/MHz	-0.12
5700	4.534	5.656	0.98	9.	12	9.71 dBm/MHz	-0.59
5720 (U-NII 2C)	5.490	4.530	0.98	9.03		9.71 dBm/MHz	-0.68
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB) Total Corr'd PSD (dBm/500kHz)		Limit	Margin (dB)
5720 (U-NII 3)	-1.400	-0.760	0.98	2.22	5.14	29.07 dBm/500kHz	-23.93
5745	0.196	0.386	0.98	2.22	6.50	29.07 dBm/500kHz	-22.57
5785	-2.699	-2.127	0.98	2.22	3.81	29.07 dBm/500kHz	-25.26
5825	-2.539	-3.293	0.98	2.22	3.31	29.07 dBm/500kHz	-25.76

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·		POWER DENS	ITY 802.11n HT40	MODE			
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5190	-2.991	-2.468	1.04	1.	33	10.77 dBm/MHz	-9.44
5230	0.902	1.423	1.04	5.	22	10.77 dBm/MHz	-5.55
5270	0.562	0.914	1.04	4.	79	10.08 dBm/MHz	-5.29
5310	-3.807	-2.949	1.04	0.	69	10.08 dBm/MHz	-9.39
5510	-3.021	-2.921	1.04	1.	08	9.71 dBm/MHz	-8.63
5550	1.430	1.680	1.04	5.	61	9.71 dBm/MHz	-4.10
5670	1.914	2.122	1.04	6.	07	9.71 dBm/MHz	-3.64
5710 (U-NII 2C)	1.580	2.410	1.04	6.	07	9.71 dBm/MHz	-3.64
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5710 (U-NII 3)	-5.870	-5.250	1.04	2.22	0.72	29.07 dBm/500kHz	-28.35
5755	-2.902	-2.731	1.04	2.22	3.45	29.07 dBm/500kHz	-25.62
5795	-5.924	-5.309	1.04	2.22	0.66	29.07 dBm/500kHz	-28.41
		POWER DENSIT	Y 802.11ac VHT8	0 MODE			
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd F	PSD(dBm/MHz)	Limit	Margin (dB)
5210	-6.323	-6.569	1.00	-2	43	10.77 dBm/MHz	-13.20
5290	-6.458	-5.884	1.00	-2	15	10.08 dBm/MHz	-12.23
5530	-6.277	-5.934	1.00	-2	09	9.71 dBm/MHz	-11.80
5610	-1.601	-1.705	1.00	2.	36	9.71 dBm/MHz	-7.35
5690 (U-NII 2C)	-1.480	-1.280	1.00	2.	63	9.71 dBm/MHz	-7.08
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5690 (U-NII 3)	-9.580	-9.530	1.00	2.22	-3.32	29.07 dBm/500kHz	-32.39
5775	-7.002	-6.499	1.00	2.22	-0.51	29.07 dBm/500kHz	-29.58
		POWER DENSIT	Y 802.11ac VHT16	60 MODE			
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5250	-9.191	-8.025	0.99	-4.	57	10.08 dBm/MHz	-14.65
5570	-8.325	-7.523	0.99		91	9.71 dBm/MHz	-13.62

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				POWER DENSI	TY 802.11ax HE20	MODE			
S220		RU config.	meas PSD	Ch1 meas PSD	Duty Factor	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
Seption	5180	full	0.804	1.055	0.98	4.	92	10.77 dBm/MHz	-5.85
SS200 Suli	5220	full	2.957	2.493	0.98	6.	72	10.77 dBm/MHz	-4.05
Second S	5240	full	3.117	2.691	0.98	6.	90	10.77 dBm/MHz	-3.87
S300	5260	full	4.085	4.465	0.98	8.	27	10.08 dBm/MHz	-1.81
S320	5300	full	3.265	4.016	0.98	7.	65	10.08 dBm/MHz	-2.43
S500 Full 1.051 0.668 0.98 5.00 9.71 dBm/MHz 4.77									-5 48
Sesso									
5700 Sull 5.070 5.090 0.98 9.907 9.71 dBmMHz -0.96									
Frequency (NHE)									
Prequency (MHz)									
S745	Frequency		Ch0 meas PSD	Ch1 meas PSD	Duty Factor	10log (500kHz/RBW)	Total Corr'd PSD		Margin
5785	5720 (U-NII 3)	full	-1.360	-0.710	0.98	2.22	5.19	29.07 dBm/500kHz	-23.88
S785	5745	full	-0.468	-0.052	0.98	2.22	5.96	29.07 dBm/500kHz	-23.11
Power Density Rolling Powe									
POWER DENSITY 802.11ax HE40 MODE									
Frequency (MHz)	0020	idii	2.002				2.00	20.07 dBill/000kil2	20.12
5230		RU config.	meas PSD	meas PSD	Factor	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
S270	5190	full	-2.378	-1.703	0.98	1.96		10.77 dBm/MHz	-8.81
S310	5230	full	1.007	1.213	0.98	5.10		10.77 dBm/MHz	-5.67
S510	5270	full	0.695	0.535	0.98	4.61		10.08 dBm/MHz	-5.47
S550 full 0.798 0.696 0.98 4.74 9.71 dBm/MHz -4.97 5670 full 0.384 1.031 0.98 4.71 9.71 dBm/MHz -5.00 5710 (U-NII 2C) full 1.710 2.310 0.98 6.01 9.71 dBm/MHz -3.70 Frequency (MHz) RU config. Ch0 meas PSD (dBm/300kHz) (dBm/300kHz) (dBm/300kHz) Factor (dBm/500kHz) Factor (dBm/500kHz) Factor (dBm/500kHz) Total Corr'd PSD (dBm/500kHz) Ch0 meas PSD (dBm/300kHz) Ch0 meas PSD (dBm/300kHz) Ch0 meas PSD (dBm/300kHz) Ch0 meas PSD (dBm/300kHz) Ch0 meas PSD (dBm/MHz) Ch0 meas PSD (dBm/Mbx) Ch0 meas PSD (dBm/300kHz) Ch0 meas	5310	full	-3.805	-3.051	0.98	0.58		10.08 dBm/MHz	-9.50
5550 full 0.798 0.696 0.98 4.74 9.71 dBm/MHz -4.97 5670 full 0.384 1.031 0.98 4.71 9.71 dBm/MHz -5.00 5710 (U-NII 2C) full 1.710 2.310 0.98 6.01 9.71 dBm/MHz -3.70 Frequency (MHz) RU config. Ch0 meas PSD (dBm/300kHz) (dBm/300kHz)	5510	full	-4.530	-4.581	0.98	-0.	57	9.71 dBm/MHz	-10.28
Frequency (MHz)	5550		0.798	0.696	0.98	4.	74	9.71 dBm/MHz	-4.97
Frequency (MHz)	5670	full	0.384	1.031	0.98	4.	71	9.71 dBm/MHz	-5.00
Frequency (MHz) RU config. Ch0 (meas PSD (dBm/300kHz) Factor (dB) Factor (dB									
5755 full -3.169 -2.980 0.98 2.22 3.14 29.07 dBm/500kHz -25.03 5795 full -5.706 -5.034 0.98 2.22 0.85 29.07 dBm/500kHz -28.22	Frequency		Ch0 meas PSD	Ch1 meas PSD	Duty Factor	10log (500kHz/RBW)	Total Corr'd PSD		Margin
Frequency (MHz)	5710 (U-NII 3)	full	-4.910	-5.000	0.98	2.22	1.26	29.07 dBm/500kHz	-27.81
POWER DENSITY 802.11ax HE80 MODE	5755	full	-3.169	-2.980	0.98	2.22	3.14	29.07 dBm/500kHz	-25.93
Frequency (MHz) RU config. Ch0 meas PSD (dBm/MHz) Elmit (dB) Factor (dB) Total Corr'd PSD(dBm/MHz) Limit (dB)	5795	full	-5.706	-5.034	0.98	2.22	0.85	29.07 dBm/500kHz	-28.22
Frequency (MHz) RU config. Ch0 meas PSD (dBm/MHz) Elmit (dB) Factor (dB) Total Corr'd PSD(dBm/MHz) Limit (dB)			_	POWER DENSI	TY 802.11ax HE80	MODE			
5290 full -7.055 -6.333 0.98 -2.69 10.08 dBm/MHz -12.77 5530 full -6.573 -6.808 0.98 -2.70 9.71 dBm/MHz -12.41 5610 full -3.746 -3.310 0.98 0.47 9.71 dBm/MHz -9.24 5690 (U-NII 2C) full -2.940 -2.340 0.98 1.36 9.71 dBm/MHz -8.35 Frequency (MHz) Ch0 meas PSD (dBm/300kHz) Duty Factor (dB) Total Corr'd PSD (dBm/500kHz) Limit Margin (dB) 5690 (U-NII 3) full -9.310 -9.200 0.98 2.22 -3.04 29.07 dBm/500kHz -32.11		RU config.	meas PSD	Ch1 meas PSD	Duty Factor		PSD(dBm/MHz)	Limit	Margin (dB)
5530 full -6.573 -6.808 0.98 -2.70 9.71 dBm/MHz -12.41 5610 full -3.746 -3.310 0.98 0.47 9.71 dBm/MHz -9.24 5690 (U-NII 2C) full -2.940 -2.340 0.98 1.36 9.71 dBm/MHz -8.35 Frequency (MHz) RU config. Ch0 meas PSD (dBm/300kHz) (dBm/300kHz) Factor (dB) Factor (dB) Total Corr'd PSD (dBm/500kHz) Limit Margin (dB) 5690 (U-NII 3) full -9.310 -9.200 0.98 2.22 -3.04 29.07 dBm/500kHz -32.11 5690 (U-NII 3) full -9.310 -9.200 0.98 2.22 -3.04 29.07 dBm/500kHz -32.11 5690 (U-NII 3) full -9.310 -9.200 0.98 2.22 -3.04 29.07 dBm/500kHz -32.11 5690 (U-NII 3) full -9.310 -9.200 0.98 2.22 -3.04 29.07 dBm/500kHz -32.11 5690 (U-NII 3) full -9.310 -9.200 0.98 2.22 -3.04 29.07 dBm/500kHz -32.11 5690 (U-NII 3) full -9.310 -9.200 0.98 2.22 -3.04 29.07 dBm/500kHz -32.11 5690 (U-NII 3) full -9.310 -9.200 0.98 2.22 -3.04 29.07 dBm/500kHz -32.11 5690 (U-NII 3) full -9.310 -9.200 0.98 2.22 -3.04 29.07 dBm/500kHz -32.11 5690 (U-NII 3) full -9.310 -9.200 0.98 2.22 -3.04 29.07 dBm/500kHz -32.11 5690 (U-NII 3) full -9.310 -9.200 0.98 2.22 -3.04 29.07 dBm/500kHz -32.11 5690 (U-NII 3) full -9.310 -9.200 0.98 2.22 -3.04 29.07 dBm/500kHz -32.11	5210	full	-6.389	-5.297	0.98	-1.82		10.77 dBm/MHz	-12.59
5530 full -6.573 -6.808 0.98 -2.70 9.71 dBm/MHz -12.41 5610 full -3.746 -3.310 0.98 0.47 9.71 dBm/MHz -9.24 5690 (U-NII 2C) full -2.940 -2.340 0.98 1.36 9.71 dBm/MHz -8.35 Frequency (MHz) RU config. Ch0 meas PSD (dBm/300kHz) Ch1 meas PSD (dBm/300kHz) Duty Factor (dB) Total Corr'd PSD (dBm/500kHz) Limit Margin (dB) 5690 (U-NII 3) full -9.310 -9.200 0.98 2.22 -3.04 29.07 dBm/500kHz -32.11	5290	full	-7.055	-6.333	0.98			10.08 dBm/MHz	-12.77
5610 full -3.746 -3.310 0.98 0.47 9.71 dBm/MHz -9.24 5690 (U-NII 2C) full -2.940 -2.340 0.98 1.36 9.71 dBm/MHz -8.35 Frequency (MHz) RU config. Ch0 meas PSD (dBm/300kHz) Ch1 meas PSD (dBm/300kHz) Duty Factor (dB) Total Corr'd PSD (dBm/500kHz) Limit Margin (dB) 5690 (U-NII 3) full -9.310 -9.200 0.98 2.22 -3.04 29.07 dBm/500kHz -32.11	5530		-6.573	-6.808	0.98			9.71 dBm/MHz	-12.41
5690 (U-NII 2C) full -2.940 -2.340 0.98 1.36 9.71 dBm/MHz -8.35 Frequency (MHz) RU config. Ch0 meas PSD (dBm/300kHz) Ch1 meas PSD (dBm/300kHz) Duty Factor (dB) Total Corr'd PSD (dBm/500kHz) Limit Margin (dB) 5690 (U-NII 3) full -9.310 -9.200 0.98 2.22 -3.04 29.07 dBm/500kHz -32.11									
Frequency (MHz) RU config. Ch0 meas PSD (dBm/300kHz) Ch1 meas PSD (dBm/300kHz) Duty Factor (dB) 10log (500kHz/RBW) Factor (dB) Total Corr'd PSD (dBm/500kHz) Limit Margin (dB) 5690 (U-NII 3) full -9.310 -9.200 0.98 2.22 -3.04 29.07 dBm/500kHz -32.11									
	Frequency		Ch0 meas PSD	Ch1 meas PSD	Duty Factor	10log (500kHz/RBW)	Total Corr'd PSD		Margin (dB)
	5690 (U-NII 3)	full	-9.310	-9.200	0.98	2.22	-3.04	29.07 dBm/500kHz	-32.11

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	POWER DENSITY 802.11ax HE160 MODE									
(MH ₂)		Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)	Limit	Margin (dB)			
5250	full	-9.785	-8.841	0.98	-5.29	11.00 dBm/MHz	-16.29			
5570	full	-10.470	-9.609	0.98	-6.03	11.00 dBm/MHz	-17.03			

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EIRP spe	EIRP spectral density 802.11a MODE								
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)				
5180	3.436	6.23	9.67	10	-0.33				
5220	3.529	6.23	9.76	10	-0.24				
5240	3.236	6.23	9.47	10	-0.53				
EIRP spectr	al density 8	302.11n HT2	20 MODE						
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)				
5180	3.589	6.23	9.82	10	-0.18				
5220	3.583	6.23	9.81	10	-0.19				
5240	3.469	6.23	9.70	10	-0.30				
EIRP spectr	al density 8	302.11n HT	40 MODE						
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)				
5190	1.329	6.23	7.56	10	-2.44				
5230	3.511	6.23	9.74	10	-0.26				
EIRP spectra	I density 80	2.11ac VH	T80 MODE						
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)				
5210	-2.434	6.23	3.80	10	-6.20				
EIRP spectral	density 80	2.11ac VHT	160 MODE		1				
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)				
5250	-4.569	6.23	1.66	10	-8.34				

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	EIRP spectral density 802.11ax HE20 MODE								
Freq. (MHz)	RU config.	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)			
5180	full	3.304	6.23	9.53	10	-0.47			
5220	full	3.168	6.23	9.40	10	-0.60			
5240	full	3.479	6.23	9.71	10	-0.29			
	EIRP spectra	al density 8	02.11ax HE	40 MODE					
Freq. (MHz)	RU config.	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)			
5190	full	1.963	6.23	8.19	10	-1.81			
5230	full	3.649	6.23	9.88	10	-0.12			
	EIRP spectra	al density 8	02.11ax HE	80 MODE					
Freq. (MHz)	RU config.	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)			
5210	full	-1.818	6.23	4.41	10	-5.59			
	EIRP spectra	I density 80)2.11ax HE	160 MODE					
Freq. (MHz)	RU config.	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)			
5250	full	-5.294	3.22	-2.07	10	-12.07			

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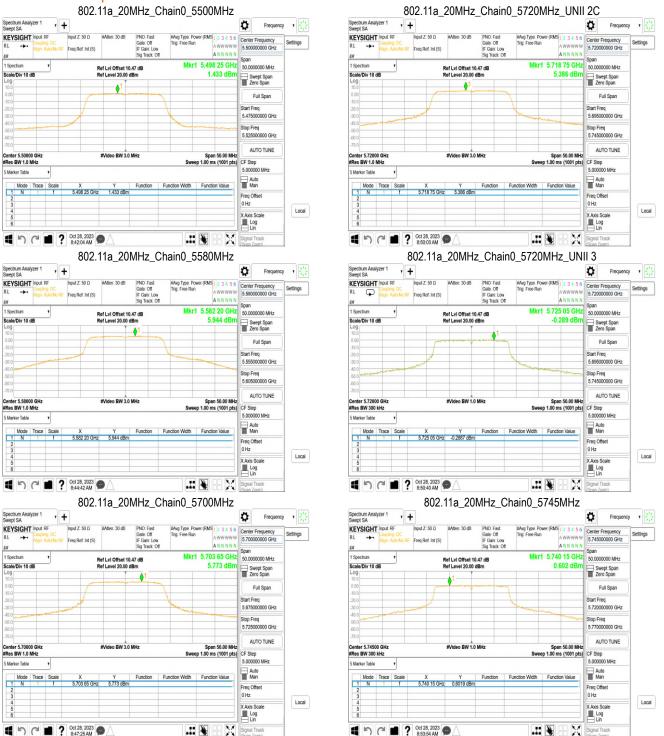
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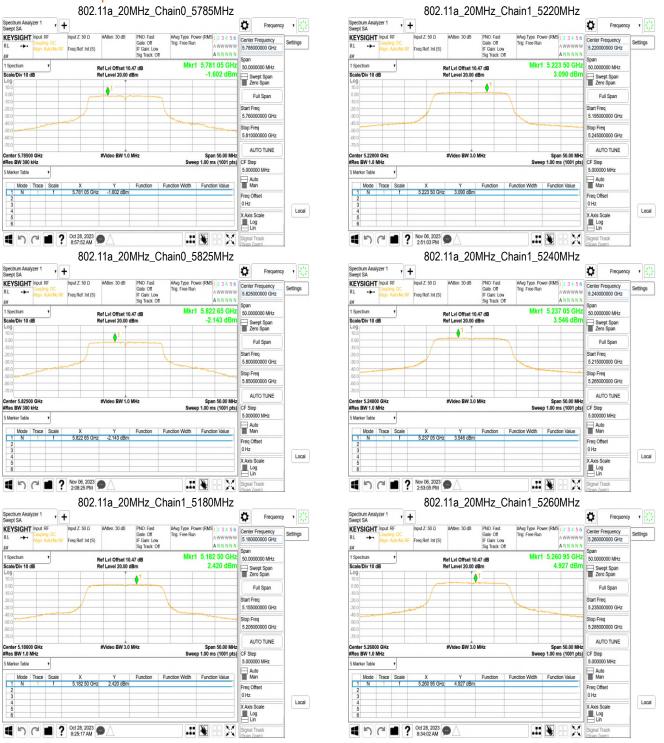
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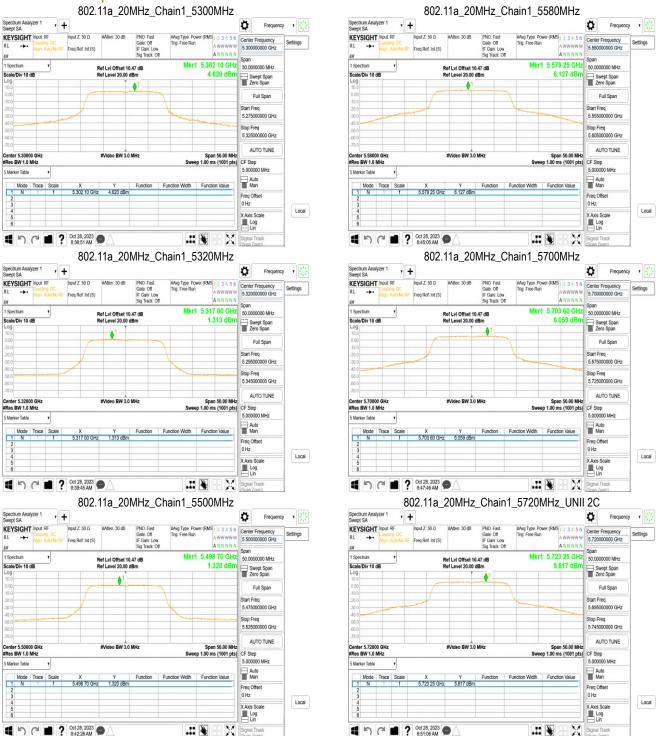
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