



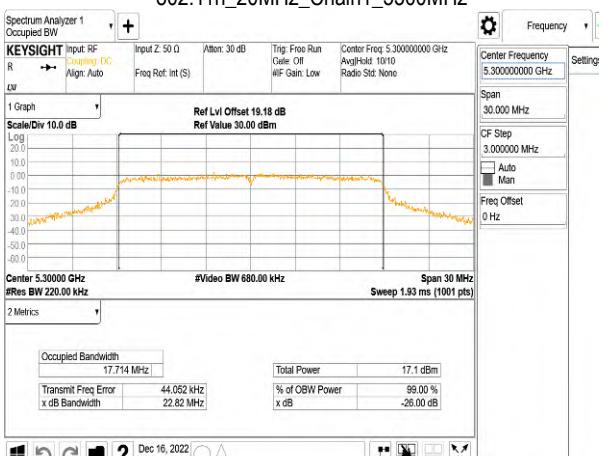
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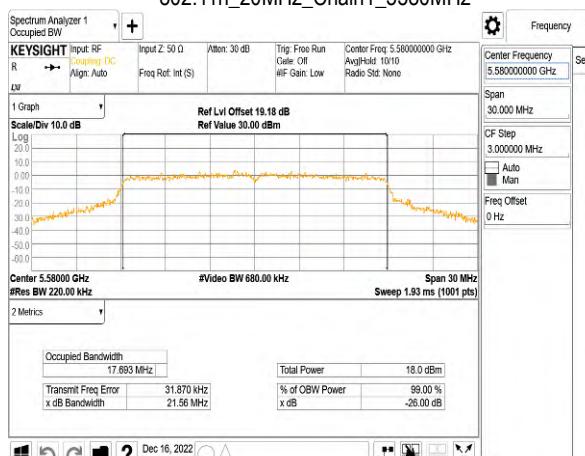
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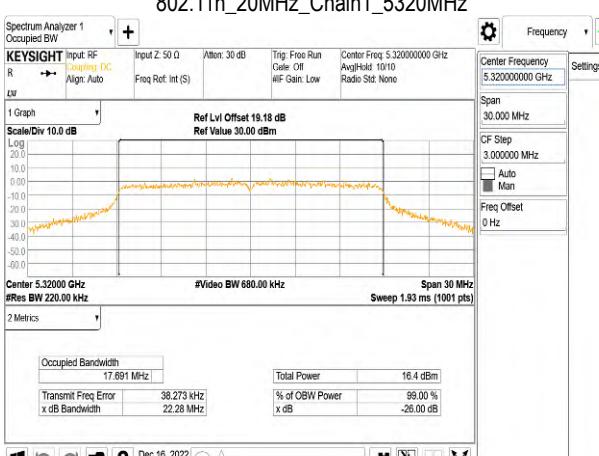
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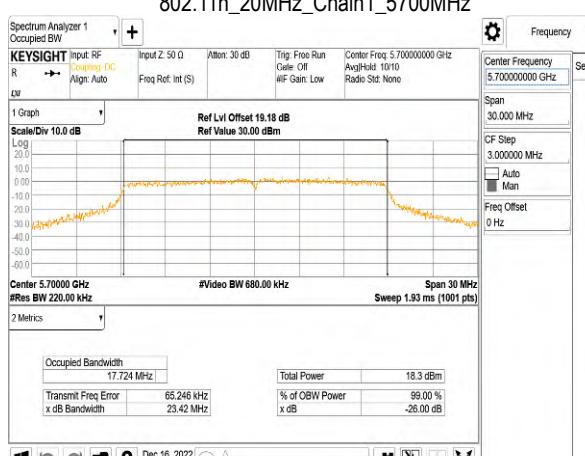
802.11n_20MHz_Chain1_5580MHz



802.11n_20MHz_Chain1_5320MHz



802.11n_20MHz_Chain1_5700MHz



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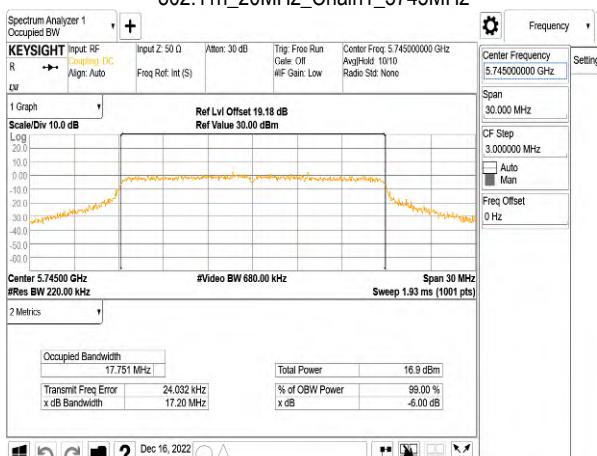
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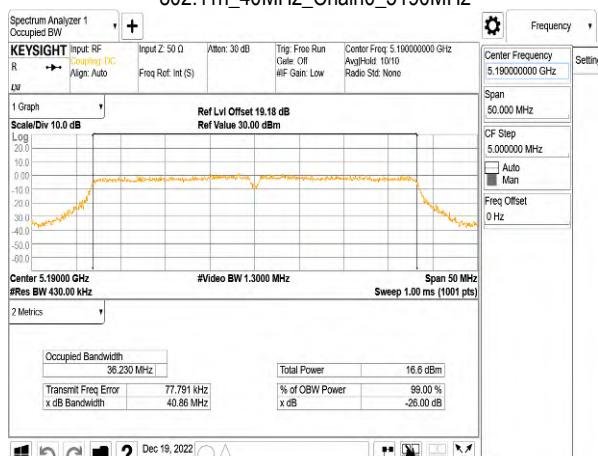
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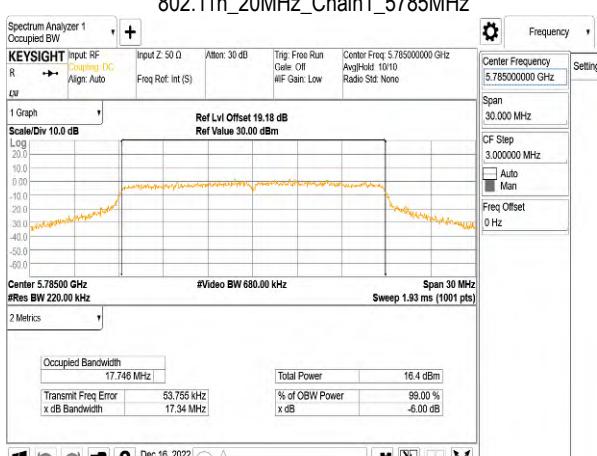
802.11n_20MHz_Chain1_5745MHz



802.11n_40MHz_Chain0_5190MHz



802.11n_20MHz_Chain1_5785MHz



802.11n_40MHz_Chain0_5230MHz



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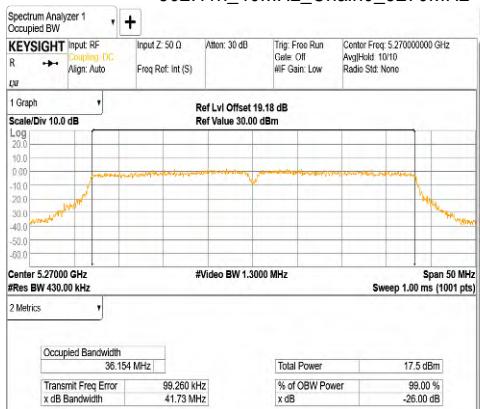
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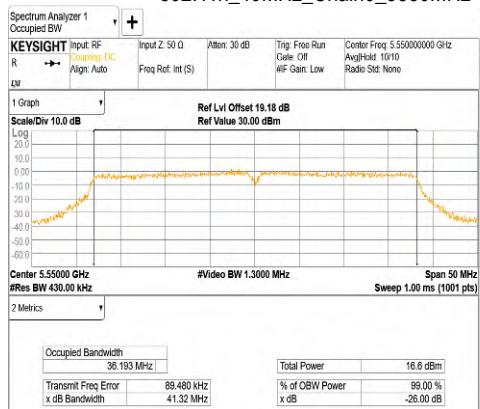
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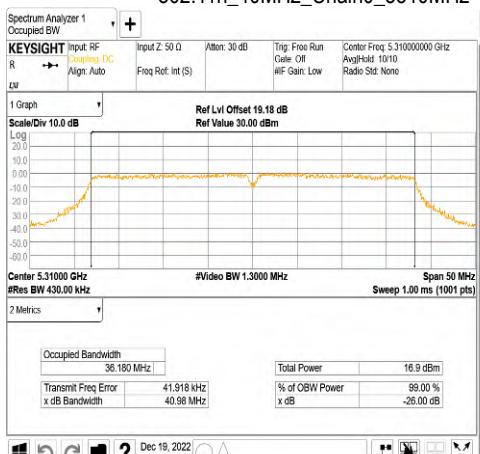
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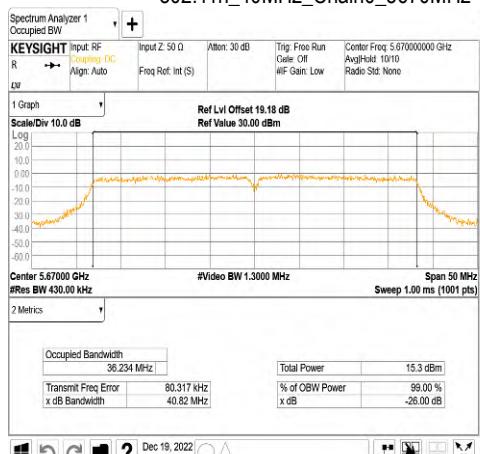
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802.11n_40MHz_Chain0_5310MHz



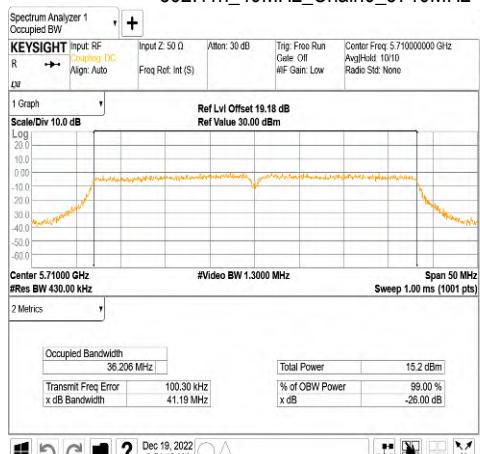
802.11n_40MHz_Chain0_5670MHz



802.11n_40MHz_Chain0_5510MHz



802.11n_40MHz_Chain0_5710MHz



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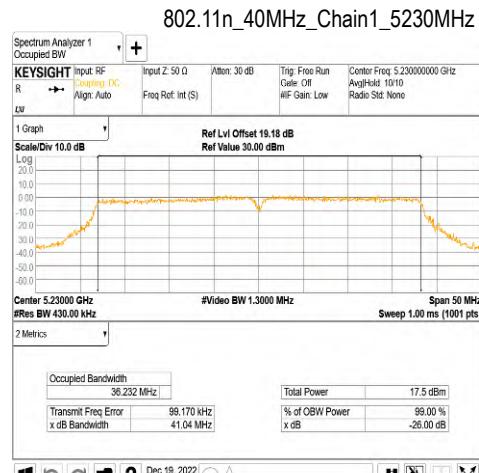
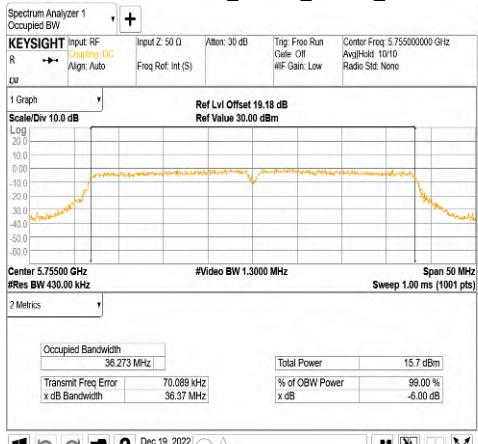
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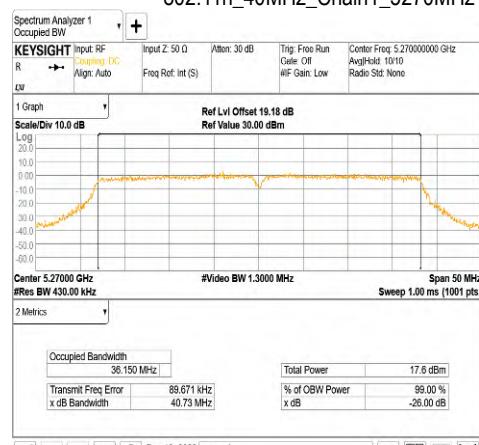
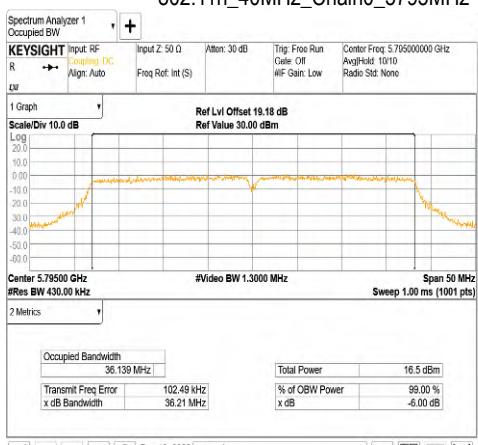
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802.11n_40MHz_Chain0_5755MHz



802.11n 40MHz Chain0 5795MHz



802.11p, 40MHz, Chain1, 5100MHz



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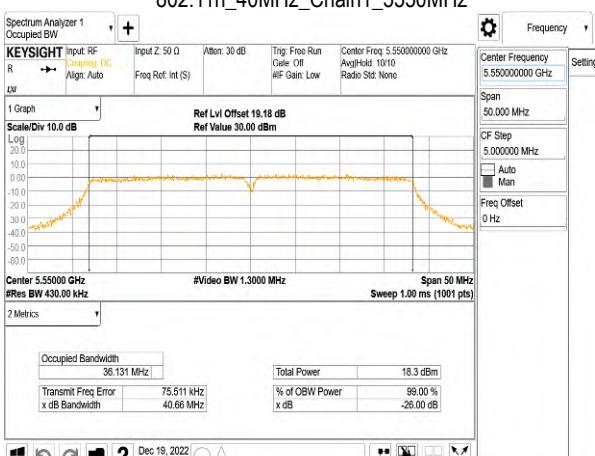
802.11n_40MHz_Chain1_5510MHz



802.11n_40MHz_Chain1_5710MHz



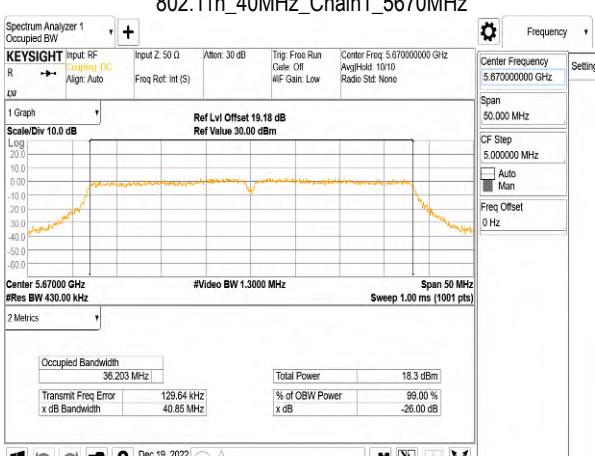
802.11n_40MHz_Chain1_5550MHz



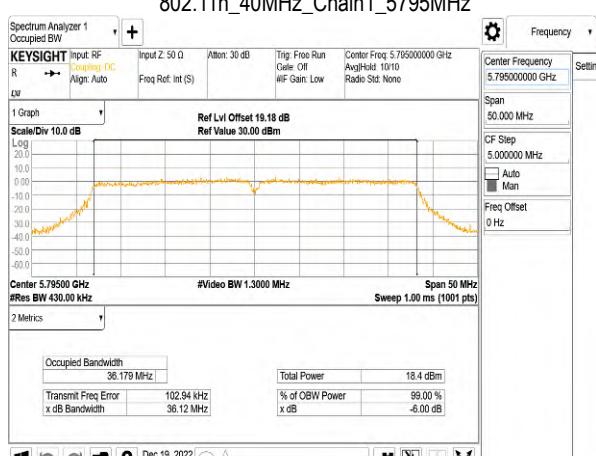
802.11n_40MHz_Chain1_5755MHz



802.11n_40MHz_Chain1_5670MHz



802.11n_40MHz_Chain1_5795MHz



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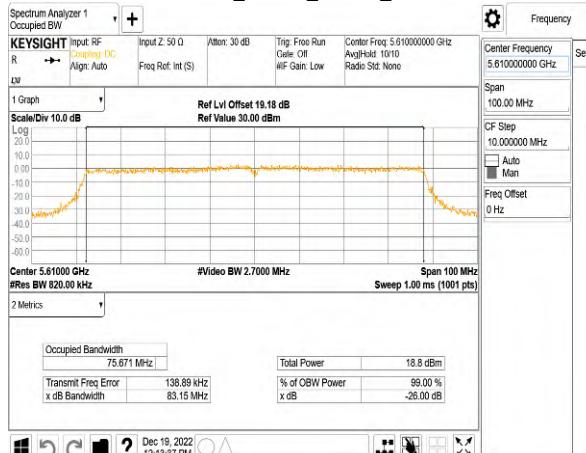
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802.11ac_80MHz_Chain0_5210MHz



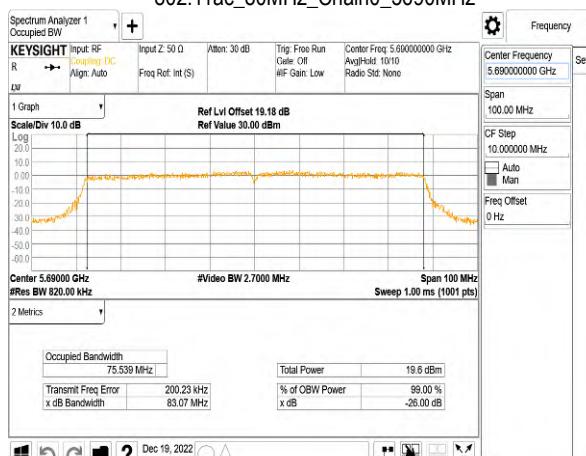
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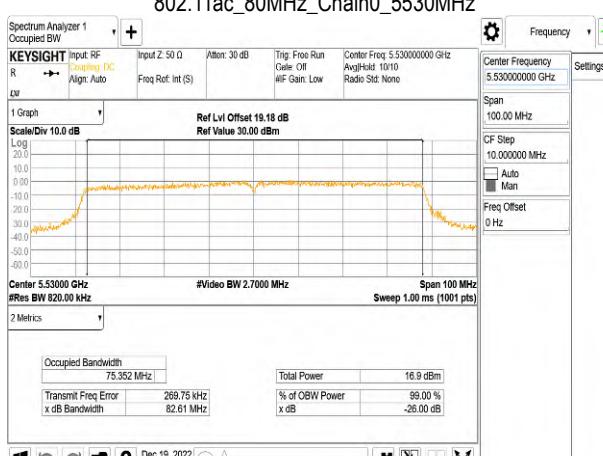
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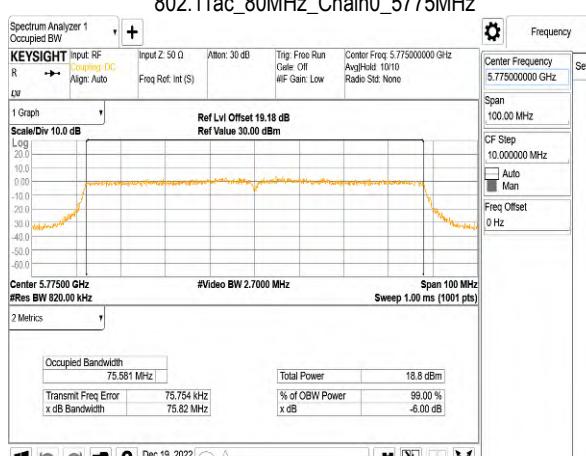
802.11ac_80MHz_Chain0_5690MHz



802.11ac_80MHz_Chain0_5530MHz



802.11ac_80MHz_Chain0_5775MHz



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802.11ac_80MHz_Chain1_5210MHz



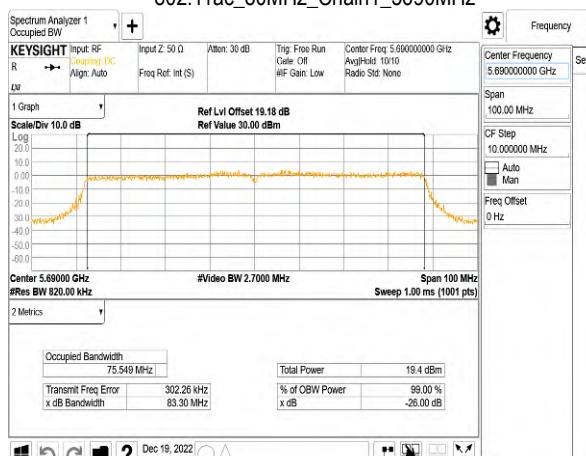
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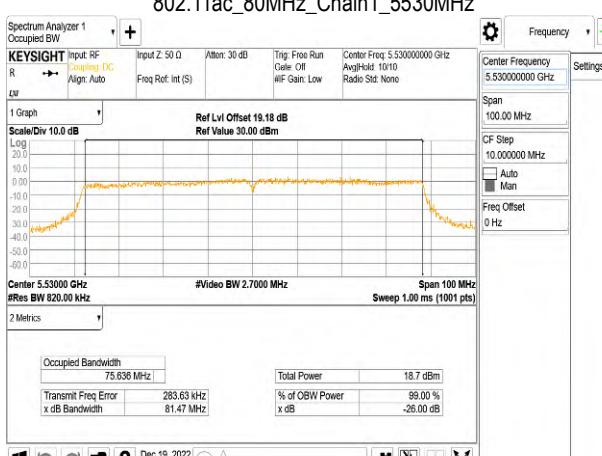
802.11ac_80MHz_Chain1_5290MHz



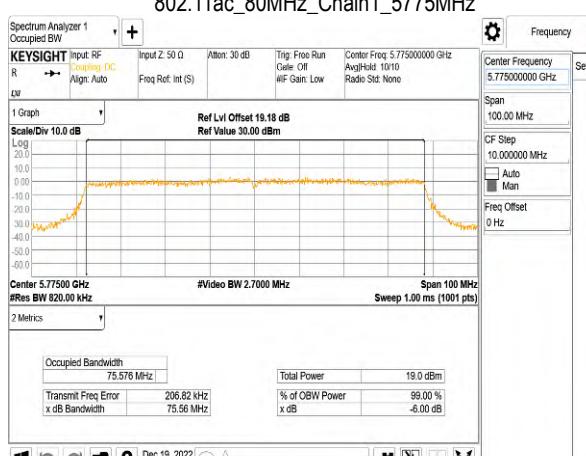
802.11ac_80MHz_Chain1_5690MHz



802.11ac_80MHz_Chain1_5530MHz



802.11ac_80MHz_Chain1_5775MHz



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9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

9.1.1 Duty Cycle

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

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

9.1.2 Output Power

Band	EUT CATEGORY	e-CRF Title 47 §15.407			
		Conducted Output Power	EIRP	TPC	Antenna Directional Gain Requirements
U-NII-1	Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	23dBi
	Out door AP	1 Watt(30dBm)	Elevation angle above 30 degrees 125mW (21dBm)	Not required	6dBi
	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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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 mW or $1.76 + 10 \log_{10} B$	N/A	At least 3dB below 30mW EIRP
	V Other device	1.0 W or $17 + 10 \log_{10} B$ dBm	250 mW or $11 + 10 \log_{10} B$	EIRP >500mW, at least 6dB below 1W EIRP
5470-5600 and 5650-5725	V All	1.0 W or $17 + 10 \log_{10} B$ dBm	250 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

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.

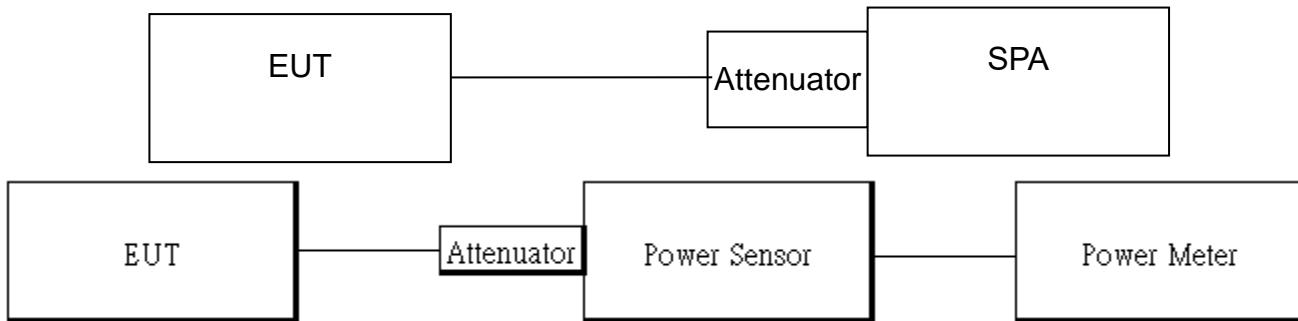
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9.2 Test Setup



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.
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.

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

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k} = 1/20 \cdot 10 \cdot G_k$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

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

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	98.19	0.08	0.48	0.01
802.11n_20	98.06	0.09	0.52	0.01
802.11ac_20	98.17	0.08	0.52	0.01
802.11n_40	96.34	0.16	1.05	2.00
802.11ac_40	96.36	0.16	1.05	2.00
802.11ac_80	92.80	0.32	2.16	3.00

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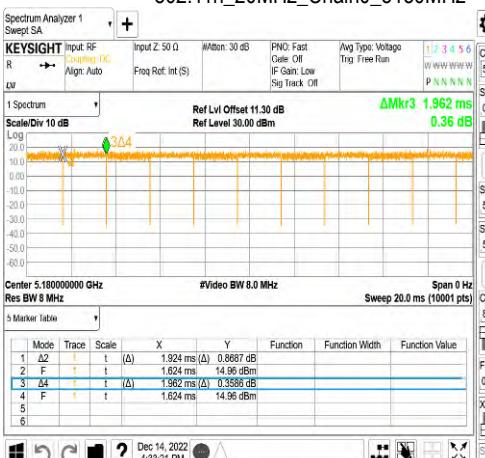
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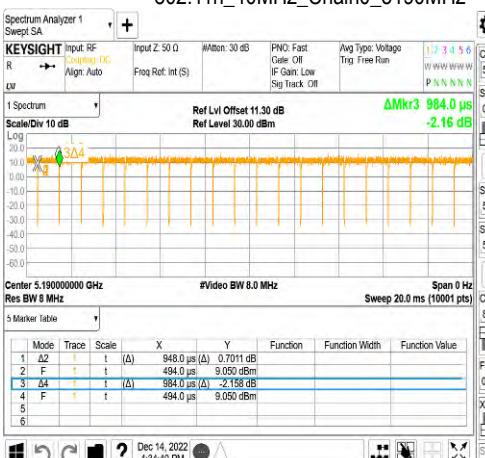
802.11a_20MHz_Chain0_5180MHz



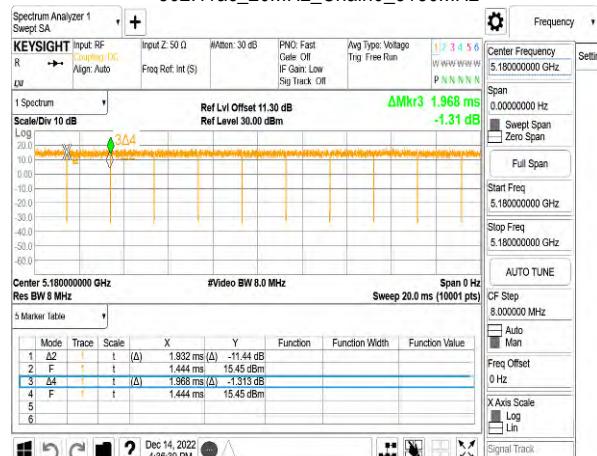
802.11n_20MHz_Chain0_5180MHz



802.11n_40MHz_Chain0_5190MHz



802.11ac_20MHz_Chain0_5180MHz



802.11ac_40MHz_Chain0_5190MHz



802.11ac_80MHz_Chain0_5210MHz



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9.5 Output Power Measurement Result

9.5.1 FCC Output power

802.11a_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	6	11.5	12.53	11.61	15.10	32.39	23.98	PASS
44	5220	6	12	12.59	11.69	15.17	32.91	23.98	PASS
48	5240	6	10.5	9.89	8.95	12.46	17.60	23.98	PASS
52	5260	6	16.5	16.48	16.19	19.35	86.04	23.98	PASS
60	5300	6	16	16.24	15.94	19.10	81.32	23.98	PASS
64	5320	6	16	16.28	15.96	19.13	81.90	23.98	PASS
100	5500	6	16.5	16.27	16.20	19.24	84.04	23.98	PASS
116	5580	6	16.5	16.30	16.06	19.19	83.01	23.98	PASS
140	5700	6	16.5	16.44	16.33	19.39	87.00	23.98	PASS
144	5720(U-NII 2C)	6	16.5	14.93	14.88	18.00	63.05	23.23	PASS
144	5720 (U-NII 3)	6	16.5	11.08	10.92	14.09	25.66	30	PASS
149	5745	6	16	16.19	16.03	19.12	81.67	30	PASS
157	5785	6	16	16.29	16.20	19.25	84.23	30	PASS
165	5825	6	16	16.33	16.23	19.29	84.92	30	PASS

802.11n_HT20_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	MCS0	14	14.24	14.13	17.19	52.37	23.98	PASS
44	5220	MCS0	12.5	12.94	11.91	15.46	35.16	23.98	PASS
48	5240	MCS0	12	12.43	11.25	14.89	30.80	23.98	PASS
52	5260	MCS0	14	14.27	14.13	17.21	52.55	23.98	PASS
60	5300	MCS0	14	14.24	13.93	17.09	51.21	23.98	PASS
64	5320	MCS0	14	14.26	14.01	17.14	51.79	23.98	PASS
100	5500	MCS0	14.5	14.35	14.18	17.27	53.35	23.98	PASS
116	5580	MCS0	14.5	14.33	14.25	17.30	53.65	23.98	PASS
140	5700	MCS0	14.5	14.40	14.30	17.36	54.40	23.98	PASS
144	5720(U-NII 2C)	MCS0	14.5	13.00	12.81	16.01	39.91	23.1	PASS
144	5720 (U-NII 3)	MCS0	14.5	8.85	8.65	11.85	15.32	30	PASS
149	5745	MCS0	14	14.22	14.00	17.12	51.48	30	PASS
157	5785	MCS0	14	14.27	14.06	17.17	52.14	30	PASS
165	5825	MCS0	14	14.29	14.14	17.22	52.74	30	PASS

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802.11ac_VHT20_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	MCS0	14	14.3302	13.9402	17.15	51.88	23.98	PASS
44	5220	MCS0	12.5	12.9102	11.8302	15.41	34.79	23.98	PASS
48	5240	MCS0	12	12.4102	11.2002	14.86	30.60	23.98	PASS
52	5260	MCS0	14.5	14.2302	14.1202	17.19	52.31	23.98	PASS
60	5300	MCS0	14	14.1502	13.9902	17.08	51.07	23.98	PASS
64	5320	MCS0	14	14.1602	13.9202	17.05	50.72	23.98	PASS
100	5500	MCS0	14.5	14.1302	14.0902	17.12	51.53	23.98	PASS
116	5580	MCS0	14.5	14.1502	14.0302	17.10	51.30	23.98	PASS
140	5700	MCS0	14.5	14.3902	14.2802	17.35	54.27	23.98	PASS
144	5720(U-NII 2C)	MCS0	14.5	12.92	12.86	15.98	39.63	23.1	PASS
144	5720 (U-NII 3)	MCS0	14.5	8.76	8.70	11.82	15.21	30	PASS
149	5745	MCS0	14	14.1202	13.9602	17.05	50.71	30	PASS
157	5785	MCS0	14	14.2002	14.0902	17.16	51.95	30	PASS
165	5825	MCS0	14	14.4202	14.2302	17.34	54.16	30	PASS

802.11n_HT40_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
38	5190	MCS0	12	12.43	12.35	15.40	34.69	23.98	PASS
46	5230	MCS0	12	12.27	12.09	15.19	33.06	23.98	PASS
54	5270	MCS0	12	12.32	11.97	15.16	32.82	23.98	PASS
62	5310	MCS0	12	12.51	12.23	15.38	34.55	23.98	PASS
102	5510	MCS0	12	12.13	11.97	15.06	32.08	23.98	PASS
110	5550	MCS0	12	12.14	12.03	15.10	32.34	23.98	PASS
134	5670	MCS0	12	12.23	12.00	15.13	32.57	23.98	PASS
142	5710(U-NII 2C)	MCS0	12	11.56	11.41	14.66	29.24	23.98	PASS
142	5710 (U-NII 3)	MCS0	12	3.63	3.34	6.66	4.63	30	PASS
151	5755	MCS0	12	12.26	12.13	15.21	33.17	30	PASS
159	5795	MCS0	12	12.31	12.19	15.26	33.59	30	PASS

802.11ac_VHT40_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
38	5190	MCS0	12	12.43	12.29	15.37	34.45	23.98	PASS
46	5230	MCS0	12	12.25	12.10	15.19	33.01	23.98	PASS
54	5270	MCS0	12	12.30	11.93	15.13	32.59	23.98	PASS
62	5310	MCS0	12	12.40	12.23	15.33	34.10	23.98	PASS
102	5510	MCS0	12.5	12.24	11.74	15.01	31.68	23.98	PASS
110	5550	MCS0	12	12.13	12.02	15.09	32.26	23.98	PASS
134	5670	MCS0	12	12.33	11.88	15.12	32.52	23.98	PASS
142	5710(U-NII 2C)	MCS0	12	11.60	11.27	14.61	28.91	23.98	PASS
142	5710 (U-NII 3)	MCS0	12	3.66	3.20	6.61	4.58	30	PASS
151	5755	MCS0	12	12.24	12.03	15.15	32.72	30	PASS
159	5795	MCS0	11.5	12.20	11.97	15.10	32.34	30	PASS

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802.11ac_VHT80_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
42	5210	MCS0	12.5	12.49	12.10	15.31	34.00	23.98	PASS
58	5290	MCS0	12.5	12.57	11.96	15.29	33.81	23.98	PASS
106	5530	MCS0	12.5	12.21	12.02	15.13	32.59	23.98	PASS
122	5610	MCS0	13	12.50	12.00	15.27	33.67	23.98	PASS
138	5690(U-NII 2C)	MCS0	12.5	11.96	11.64	15.14	32.64	23.98	PASS
138	5690 (U-NII 3)	MCS0	12.5	1.21	0.89	4.38	2.74	30	PASS
155	5775	MCS0	12.5	12.31	12.13	15.24	33.39	30	PASS

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9.5.2 ISED Conducted output power and EIRP

802.11a_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
52	5260	16.48	16.19	19.35	86.04	23.18	PASS
60	5300	16.24	15.94	19.10	81.32	23.18	PASS
64	5320	16.28	15.96	19.13	81.90	23.18	PASS
100	5500	16.27	16.20	19.24	84.04	23.18	PASS
116	5580	16.30	16.06	19.19	83.01	23.18	PASS
140	5700	16.44	16.33	19.39	87.00	23.19	PASS
144	5720(U-NII 2C)	14.93	14.88	18.00	63.05	22.23	PASS
144	5720 (U-NII 3)	11.08	10.92	14.09	25.66	30	PASS
149	5745	16.19	16.03	19.12	81.67	30	PASS
157	5785	16.29	16.20	19.25	84.23	30	PASS
165	5825	16.33	16.23	19.29	84.92	30	PASS

802.11n_HT20_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
52	5260	14.27	14.13	17.21	52.55	23.47	PASS
60	5300	14.24	13.93	17.09	51.21	23.48	PASS
64	5320	14.26	14.01	17.14	51.79	23.48	PASS
100	5500	14.35	14.18	17.27	53.35	23.48	PASS
116	5580	14.33	14.25	17.30	53.65	23.48	PASS
140	5700	14.40	14.30	17.36	54.40	23.48	PASS
144	5720(U-NII 2C)	13.00	12.81	16.01	39.91	22.41	PASS
144	5720 (U-NII 3)	8.85	8.65	11.85	15.32	30	PASS
149	5745	14.22	14.00	17.12	51.48	30	PASS
157	5785	14.27	14.06	17.17	52.14	30	PASS
165	5825	14.29	14.14	17.22	52.74	30	PASS

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802.11n_HT40_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
54	5270	12.32	11.97	15.16	32.82	23.98	PASS
62	5310	12.51	12.23	15.38	34.55	23.98	PASS
102	5510	12.13	11.97	15.06	32.08	23.98	PASS
110	5550	12.14	12.03	15.10	32.34	23.98	PASS
134	5670	12.23	12.00	15.13	32.57	23.98	PASS
142	5710(U-NII 2C)	11.56	11.41	14.66	29.24	23.98	PASS
142	5710 (U-NII 3)	3.63	3.34	6.66	4.63	30	PASS
151	5755	12.26	12.13	15.21	33.17	30	PASS
159	5795	12.31	12.19	15.26	33.59	30	PASS

802.11ac_VHT20_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
52	5260	14.23	14.12	17.19	52.31	23.47	PASS
60	5300	14.15	13.99	17.08	51.07	23.48	PASS
64	5320	14.16	13.92	17.05	50.72	23.48	PASS
100	5500	14.13	14.09	17.12	51.53	23.48	PASS
116	5580	14.15	14.03	17.10	51.30	23.48	PASS
140	5700	14.39	14.28	17.35	54.27	23.48	PASS
144	5720(U-NII 2C)	12.92	12.86	15.98	39.63	22.41	PASS
144	5720 (U-NII 3)	8.76	8.70	11.82	15.21	30	PASS
149	5745	14.12	13.96	17.05	50.71	30	PASS
157	5785	14.20	14.09	17.16	51.95	30	PASS
165	5825	14.42	14.23	17.34	54.16	30	PASS

802.11ac_VHT40_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
54	5270	12.30	11.93	15.13	32.59	23.98	PASS
62	5310	12.40	12.23	15.33	34.10	23.98	PASS
102	5510	12.24	11.74	15.01	31.68	23.98	PASS
110	5550	12.13	12.02	15.09	32.26	23.98	PASS
134	5670	12.33	11.88	15.12	32.52	23.98	PASS
142	5710(U-NII 2C)	11.60	11.27	14.61	28.91	23.98	PASS
142	5710 (U-NII 3)	3.66	3.20	6.61	4.58	30	PASS
151	5755	12.24	12.03	15.15	32.72	30	PASS
159	5795	12.20	11.97	15.10	32.34	30	PASS

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802.11ac_VHT80_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
58	5290	12.57	11.96	15.29	33.81	23.98	PASS
106	5530	12.21	12.02	15.13	32.59	23.98	PASS
122	5610	12.50	12.00	15.27	33.67	23.98	PASS
138	5710(U-NII 2C)	11.96	11.64	15.14	32.64	23.98	PASS
138	5690 (U-NII 3)	1.21	0.89	4.38	2.74	30	PASS
155	5775	12.31	12.13	15.24	33.39	30	PASS

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802.11a_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	15.10	4.91	20.01	100.231	22.19	PASS
44	5220	15.17	4.91	20.08	101.859	22.18	PASS
48	5240	12.46	4.91	17.37	54.576	22.2	PASS
52	5260	19.35	4.91	24.26	266.686	30	PASS
60	5300	19.10	4.91	24.01	251.768	30	PASS
64	5320	19.13	4.91	24.04	253.513	30	PASS
100	5500	19.24	4.91	24.15	260.016	29.18	PASS
116	5580	19.19	4.91	24.10	257.040	30	PASS
140	5700	19.39	4.91	24.30	269.153	30	PASS

802.11n HT20_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	17.19	4.91	22.10	162.181	22.48	PASS
44	5220	15.46	4.91	20.37	108.893	22.49	PASS
48	5240	14.89	4.91	19.80	95.499	22.49	PASS
52	5260	17.21	4.91	22.12	162.930	29.47	PASS
60	5300	17.09	4.91	22.00	158.489	29.48	PASS
64	5320	17.14	4.91	22.05	160.325	29.48	PASS
100	5500	17.27	4.91	22.18	165.196	29.48	PASS
116	5580	17.30	4.91	22.21	166.341	29.48	PASS
140	5700	17.36	4.91	22.27	168.655	29.48	PASS

802.11n HT40_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	15.40	4.91	20.31	107.399	23.01	PASS
46	5230	15.19	4.91	20.10	102.329	23.01	PASS
54	5270	15.16	4.91	20.07	101.625	30	PASS
62	5310	15.38	4.91	20.29	106.905	30	PASS
102	5510	15.06	4.91	19.97	99.312	30	PASS
110	5550	15.10	4.91	20.01	100.231	30	PASS
134	5670	15.13	4.91	20.04	100.925	30	PASS

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802.11ac_VHT20_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	17.15	4.91	22.06	160.694	22.48	PASS
44	5220	15.41	4.91	20.32	107.647	22.49	PASS
48	5240	14.86	4.91	19.77	94.842	22.49	PASS
52	5260	17.19	4.91	22.10	162.181	29.47	PASS
60	5300	17.08	4.91	21.99	158.125	29.48	PASS
64	5320	17.05	4.91	21.96	157.036	29.48	PASS
100	5500	17.12	4.91	22.03	159.588	29.48	PASS
116	5580	17.10	4.91	22.01	158.855	29.48	PASS
140	5700	17.35	4.91	22.26	168.267	29.48	PASS

802.11ac_VHT40_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	15.37	4.91	20.28	106.660	23.01	PASS
46	5230	15.19	4.91	20.10	102.329	23.01	PASS
54	5270	15.13	4.91	20.04	100.925	30	PASS
62	5310	15.33	4.91	20.24	105.682	30	PASS
102	5510	15.01	4.91	19.92	98.175	30	PASS
110	5550	15.09	4.91	20.00	100.000	30	PASS
134	5670	15.12	4.91	20.03	100.693	30	PASS

802.11ac_VHT80_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	15.31	4.91	20.22	105.196	23.01	PASS
58	5290	15.29	4.91	20.20	104.713	30	PASS
106	5530	15.13	4.91	20.04	100.925	30	PASS

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10 MAXIMUM POWER SPECTRAL DENSITY

10.1 Standard Applicable

Operation Bands	EUT CATEGORY		e-CRF Title 47 §15.407 Power Spectral Density	Antenna Directional Gain Requirements
U-NII-1	Outdoor Access Point (Master)		1. 17dBm/ MHz 2. EIRP<=125mW(21dBm) at any elevation angle > 30°	6dBi
	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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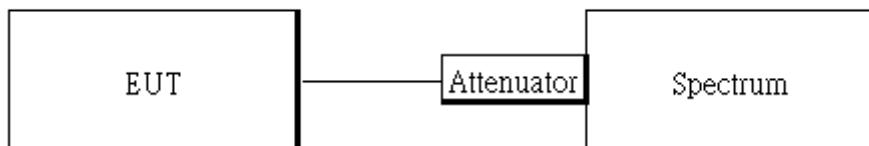
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FREQUENCY BAND (MHz)	EUT CATEGORY	RSS-247 §6.2.1~6.2.4	
		EIRP Density	Power Density
5150~5250	OEM devices installed in vehicles	N/A	N/A
	V Other device	10 dBm/MHz	N/A
5250~5350	OEM devices installed in vehicles	N/A	N/A
	V Other device	N/A	11 dBm/MHz
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.

10.2 Test Setup



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10.3 Measurement Procedure

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

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

For U-NII-3 Band:

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

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

5. Use the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add $10 \log(1/\text{duty cycle})$.
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.

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

where

Each antenna is driven by no more than one spatial stream;
NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k} = / 20 10G_k$ if the kth antenna is being fed by spatial stream j, or zero if it is not;
 G_k is the gain in dBi of the kth antenna.

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

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10.4 Measurement Result

POWER DENSITY 802.11a MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	1.705	1.694	0.00	4.71		11.00 dBm/MHz	-6.29
5220	1.569	1.703	0.00	4.65		11.00 dBm/MHz	-6.35
5240	1.040	0.667	0.00	3.87		11.00 dBm/MHz	-7.13
5260	5.397	4.468	0.00	7.97		11.00 dBm/MHz	-3.03
5300	4.332	3.912	0.00	7.14		11.00 dBm/MHz	-3.86
5320	4.054	3.243	0.00	6.68		11.00 dBm/MHz	-4.32
5500	3.138	3.938	0.00	6.57		11.00 dBm/MHz	-4.43
5580	4.836	5.428	0.00	8.15		11.00 dBm/MHz	-2.85
5700	2.846	6.930	0.00	8.36		11.00 dBm/MHz	-2.64
5720 (U-NII 2C)	3.103	7.129	0.00	8.58		11.00 dBm/MHz	-2.42
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)	-3.397	0.728	0.00	2.22	4.37	30.00 dBm/500kHz	-25.63
5745	-1.877	1.522	0.00	2.22	5.38	30.00 dBm/500kHz	-24.62
5785	-1.235	0.647	0.00	2.22	5.04	30.00 dBm/500kHz	-24.96
5825	0.332	1.195	0.00	2.22	6.02	30.00 dBm/500kHz	-23.98

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POWER DENSITY 802.11n HT20 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)
5180	1.929	1.858	0.00	4.90		11.00 dBm/MHz	-6.10
5220	1.870	1.919	0.00	4.90		11.00 dBm/MHz	-6.10
5240	1.973	1.294	0.00	4.66		11.00 dBm/MHz	-6.34
5260	2.838	2.140	0.00	5.51		11.00 dBm/MHz	-5.49
5300	2.669	2.102	0.00	5.41		11.00 dBm/MHz	-5.59
5320	1.936	1.237	0.00	4.61		11.00 dBm/MHz	-6.39
5500	0.664	1.360	0.00	4.04		11.00 dBm/MHz	-6.96
5580	1.899	3.225	0.00	5.62		11.00 dBm/MHz	-5.38
5700	0.400	4.473	0.00	5.91		11.00 dBm/MHz	-5.09
5720 (U-NII 2C)	0.073	4.576	0.00	5.89		11.00 dBm/MHz	-5.11
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)	-6.328	-1.809	0.00	2.22	1.72	30.00 dBm/500kHz	-28.28
5745	-5.148	-2.380	0.00	2.22	1.68	30.00 dBm/500kHz	-28.32
5785	-4.088	-2.580	0.00	2.22	1.96	30.00 dBm/500kHz	-28.04
5825	-2.653	-1.635	0.00	2.22	3.12	30.00 dBm/500kHz	-26.88
POWER DENSITY 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	-2.742	-1.763	0.16	0.95		11.00 dBm/MHz	-10.05
5230	-2.147	-1.680	0.16	1.26		11.00 dBm/MHz	-9.74
5270	-1.457	-1.594	0.16	1.65		11.00 dBm/MHz	-9.35
5310	-1.980	-1.830	0.16	1.27		11.00 dBm/MHz	-9.73
5510	-3.237	-1.456	0.16	0.91		11.00 dBm/MHz	-10.09
5550	-2.350	-0.826	0.16	1.65		11.00 dBm/MHz	-9.35
5670	-3.566	-0.465	0.16	1.43		11.00 dBm/MHz	-9.57
5710 (U-NII 2C)	-3.978	-0.008	0.16	1.62		11.00 dBm/MHz	-9.38
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)	-10.460	-6.322	0.16	2.22	-2.53	30.00 dBm/500kHz	-32.53
5755	-7.614	-5.371	0.16	2.22	-0.96	30.00 dBm/500kHz	-30.96
5795	-7.767	-5.512	0.16	2.22	-1.10	30.00 dBm/500kHz	-31.10

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POWER DENSITY 802.11ac VHT80 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)
5210	-5.279	-4.877	0.32	-1.74		11.00 dBm/MHz	-12.74
5290	-4.508	-4.535	0.32	-1.19		11.00 dBm/MHz	-12.19
5530	-5.263	-3.479	0.32	-0.95		11.00 dBm/MHz	-11.95
5610	-3.751	-4.071	0.32	-0.58		11.00 dBm/MHz	-11.58
5690 (U-NII 2C)	-3.203	-2.831	0.32	0.32		11.00 dBm/MHz	-10.68
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)
5690 (U-NII 3)	-9.439	-8.837	0.32	2.22	-3.58	30.00 dBm/500kHz	-33.58
5775	-8.440	-8.548	0.32	2.22	-2.94	30.00 dBm/500kHz	-32.94

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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	4.71	4.91	9.62	10	-0.38
5220	4.65	4.91	9.56	10	-0.44
5240	3.87	4.91	8.78	10	-1.22
EIRP spectral density 802.11n HT20 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5180	4.90	4.91	9.81	10	-0.19
5220	4.90	4.91	9.81	10	-0.19
5240	4.66	4.91	9.57	10	-0.43
EIRP spectral density 802.11n HT40 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5190	0.95	4.91	5.86	10	-4.14
5230	1.26	4.91	6.17	10	-3.83
EIRP spectral density 802.11ac VHT80 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5210	-1.74	4.91	3.17	10	-6.83

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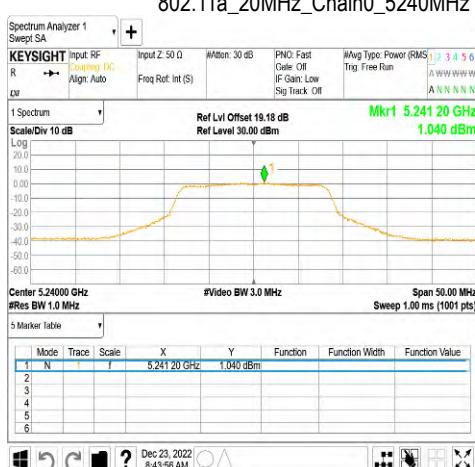
802.11a_20MHz_Chain0_5180MHz



802.11a_20MHz_Chain0_5220MHz



802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5260MHz



802.11a_20MHz_Chain0_5300MHz



802.11a_20MHz_Chain0_5320MHz



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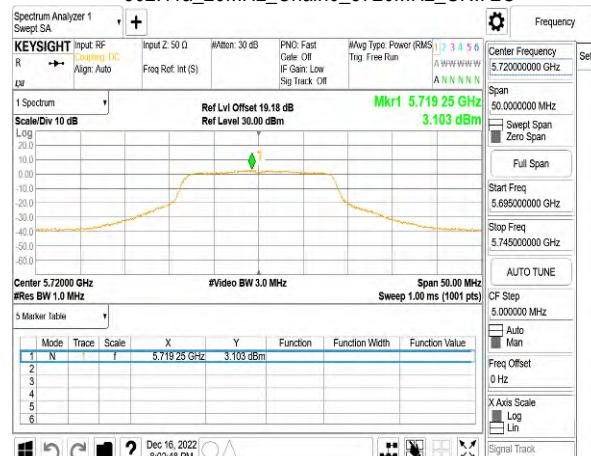
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802.11a_20MHz_Chain0_5500MHz



802.11a_20MHz_Chain0_5720MHz_UNII 2C



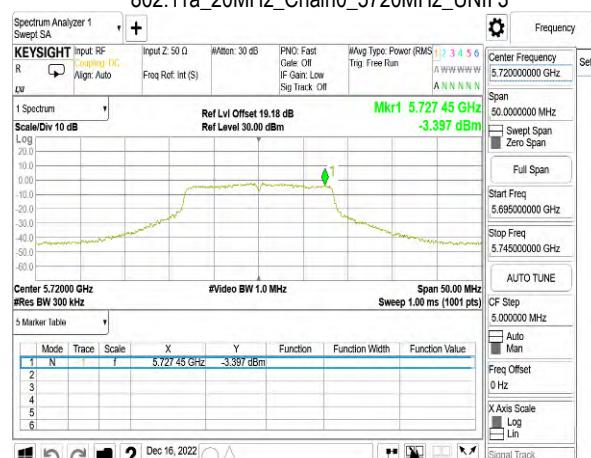
802.11a_20MHz_Chain0_5580MHz



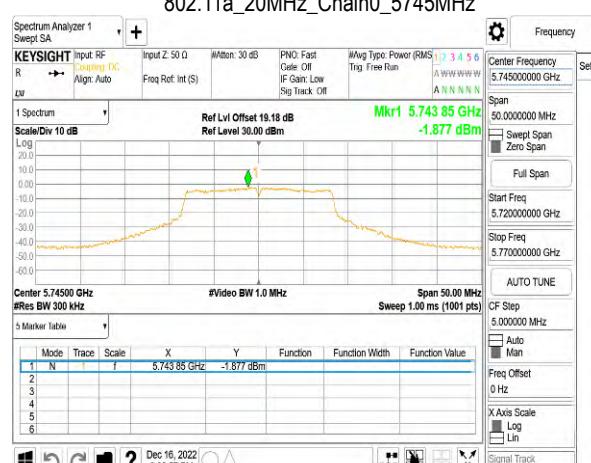
802.11a_20MHz_Chain0_5700MHz



802.11a_20MHz_Chain0_5720MHz_UNII 3



802.11a_20MHz_Chain0_5745MHz



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802.11a_20MHz_Chain0_5785MHz



Dec 16, 2022 8:45:33 PM

Mode Trace Scale X Y Function Function Width Function Value

1 N f 5.785 90 GHz -1.235 dBm

2 3 4 5 6

ANNNNN

CF Step 5.000000 MHz

Auto Man

Freq Offset 0 Hz

X Axis Scale Log Lin

Signal Track (Span Zoom)

802.11a_20MHz_Chain0_5825MHz



Dec 16, 2022 8:22:35 PM

Mode Trace Scale X Y Function Function Width Function Value

1 N f 5.825 75 GHz 0.332 dBm

2 3 4 5 6

ANNNNN

CF Step 5.000000 MHz

Auto Man

Freq Offset 0 Hz

X Axis Scale Log Lin

Signal Track (Span Zoom)

802.11a_20MHz_Chain1_5180MHz



Dec 19, 2022 1:41:39 PM

Mode Trace Scale X Y Function Function Width Function Value

1 N f 5.179 35 GHz 1.694 dBm

2 3 4 5 6

ANNNNN

CF Step 5.000000 MHz

Auto Man

Freq Offset 0 Hz

X Axis Scale Log Lin

Signal Track (Span Zoom)

802.11a_20MHz_Chain1_5220MHz



Dec 16, 2022 1:53:03 PM

Mode Trace Scale X Y Function Function Width Function Value

1 N f 5.219 05 GHz 1.703 dBm

2 3 4 5 6

ANNNNN

CF Step 5.000000 MHz

Auto Man

Freq Offset 0 Hz

X Axis Scale Log Lin

Signal Track (Span Zoom)

802.11a_20MHz_Chain1_5240MHz



Dec 23, 2022 8:44:20 AM

Mode Trace Scale X Y Function Function Width Function Value

1 N f 5.240 90 GHz 0.667 dBm

2 3 4 5 6

ANNNNN

CF Step 5.000000 MHz

Auto Man

Freq Offset 0 Hz

X Axis Scale Log Lin

Signal Track (Span Zoom)

802.11a_20MHz_Chain1_5260MHz



Dec 16, 2022 7:26:39 PM

Mode Trace Scale X Y Function Function Width Function Value

1 N f 5.259 25 GHz 4.468 dBm

2 3 4 5 6

ANNNNN

CF Step 5.000000 MHz

Auto Man

Freq Offset 0 Hz

X Axis Scale Log Lin

Signal Track (Span Zoom)

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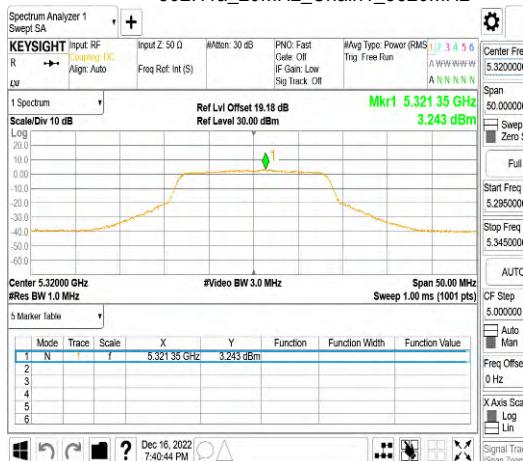
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802.11a_20MHz_Chain1_5300MHz



802.11a_20MHz_Chain1_5320MHz



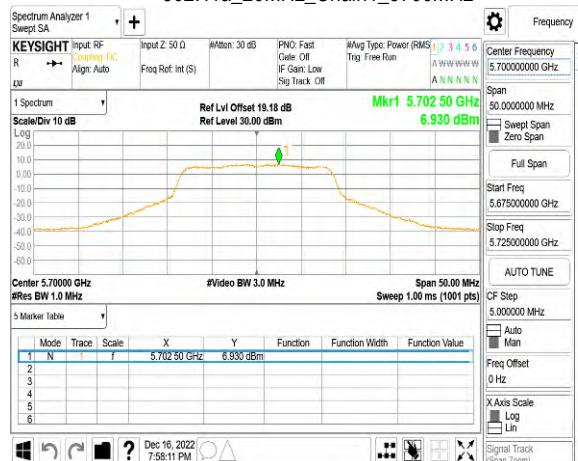
802.11a_20MHz_Chain1_5500MHz



802.11a_20MHz_Chain1_5580MHz



802.11a_20MHz_Chain1_5700MHz



802.11a_20MHz_Chain1_5720MHz_UNII 2C



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802.11a_20MHz_Chain1_5720MHz_UNII 3



802.11a_20MHz_Chain1_5745MHz



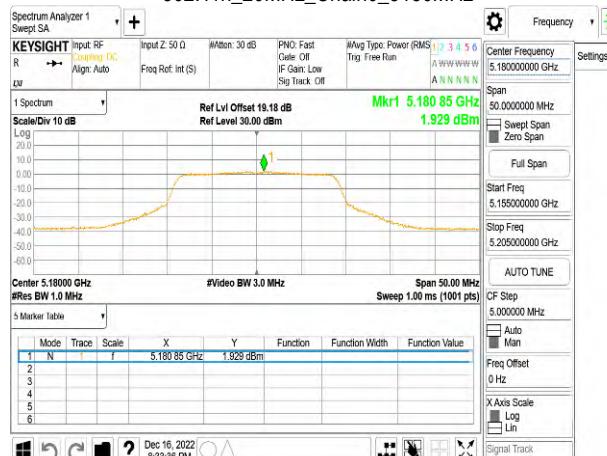
802.11a_20MHz_Chain1_5785MHz



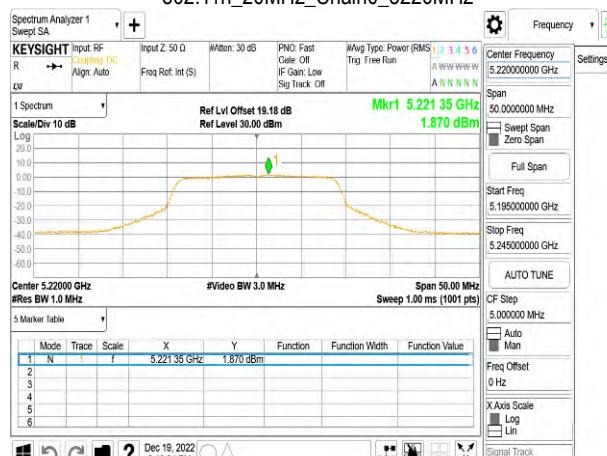
802.11a_20MHz_Chain1_5825MHz



802.11n_20MHz_Chain0_5180MHz



802.11n_20MHz_Chain0_5220MHz



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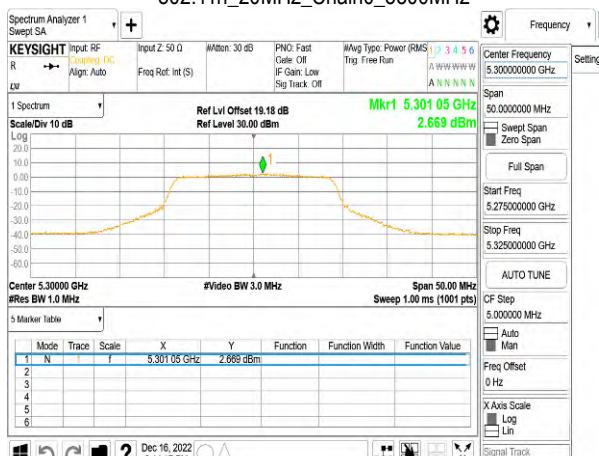
802.11n_20MHz_Chain0_5240MHz



802.11n_20MHz_Chain0_5260MHz



802.11n_20MHz_Chain0_5300MHz



802.11n_20MHz_Chain0_5320MHz



802.11n_20MHz_Chain0_5500MHz



802.11n_20MHz_Chain0_5580MHz



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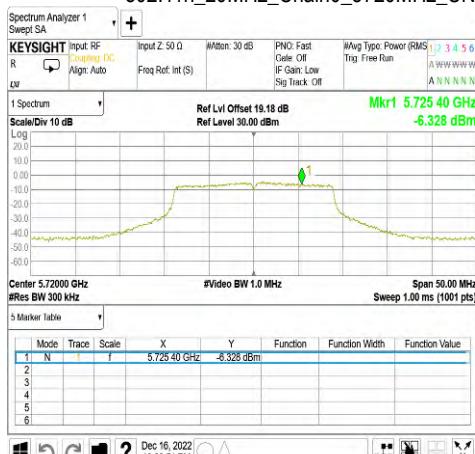
802.11n_20MHz_Chain0_5700MHz



802.11n_20MHz_Chain0_5720MHz_UNII 2C



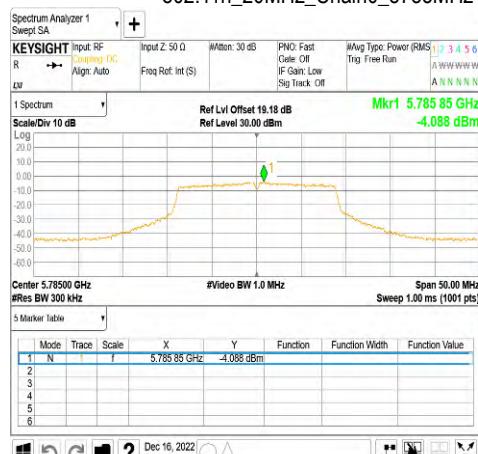
802.11n_20MHz_Chain0_5720MHz_UNII 3



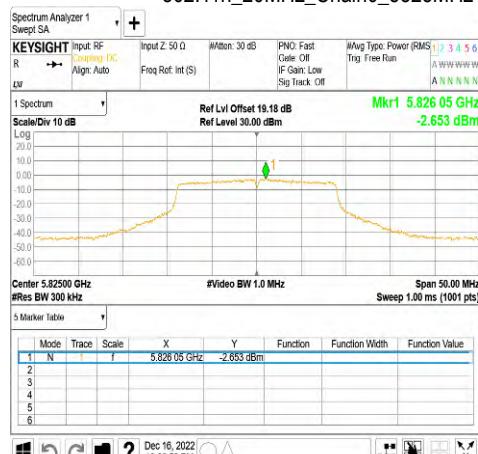
802.11n_20MHz_Chain0_5745MHz



802.11n_20MHz_Chain0_5785MHz



802.11n_20MHz_Chain0_5825MHz



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802.11n_20MHz_Chain1_5180MHz



802.11n_20MHz_Chain1_5260MHz



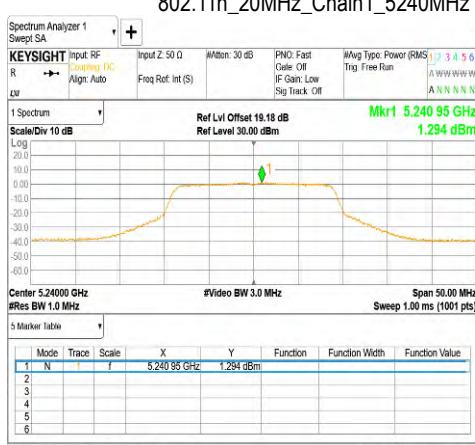
802.11n_20MHz_Chain1_5220MHz



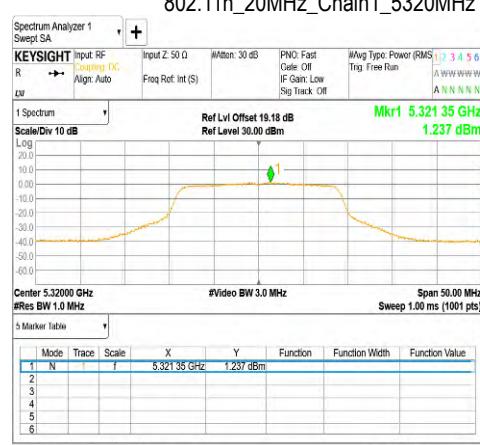
802.11n_20MHz_Chain1_5300MHz



802.11n_20MHz_Chain1_5240MHz



802.11n_20MHz_Chain1_5320MHz



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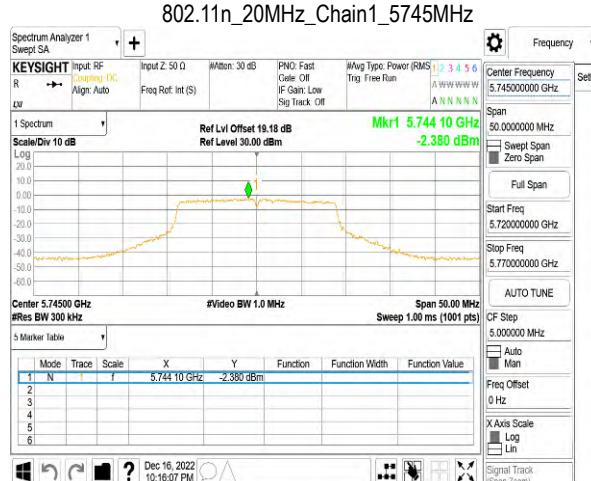
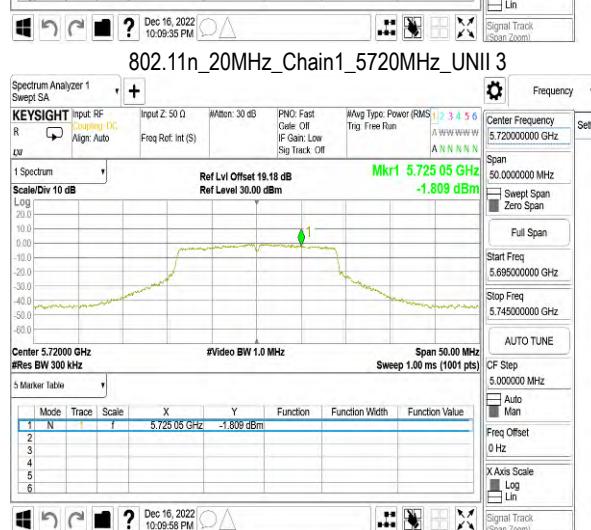
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802.11n_20MHz_Chain1_5500MHz



802.11n_20MHz_Chain1_5720MHz_UNII 2C



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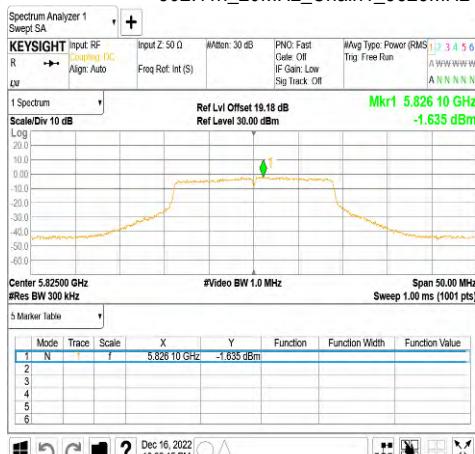
Member of SGS Group



802.11n_20MHz_Chain1_5785MHz



802.11n_20MHz_Chain1_5825MHz



802.11n_40MHz_Chain0_5190MHz



802.11n_40MHz_Chain0_5230MHz



802.11n_40MHz_Chain0_5270MHz



802.11n_40MHz_Chain0_5310MHz



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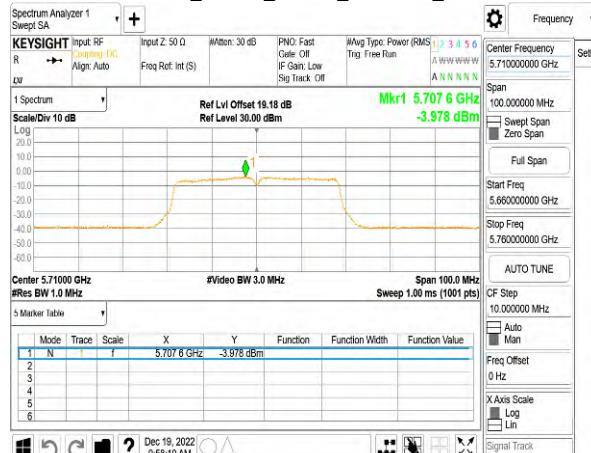
Member of SGS Group



802.11n_40MHz_Chain0_5510MHz



802.11n_40MHz_Chain0_5710MHz_UNII 2C



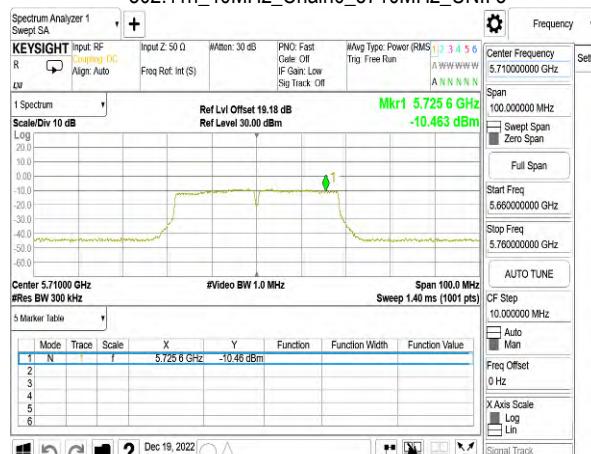
802.11n_40MHz_Chain0_5550MHz



802.11n_40MHz_Chain0_5670MHz



802.11n_40MHz_Chain0_5710MHz_UNII 3



802.11n_40MHz_Chain0_5755MHz



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802.11n_40MHz_Chain0_5795MHz



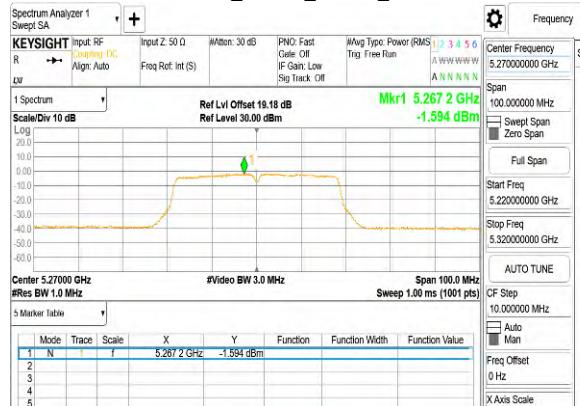
802.11n_40MHz_Chain1_5190MHz



802.11n_40MHz_Chain1_5230MHz



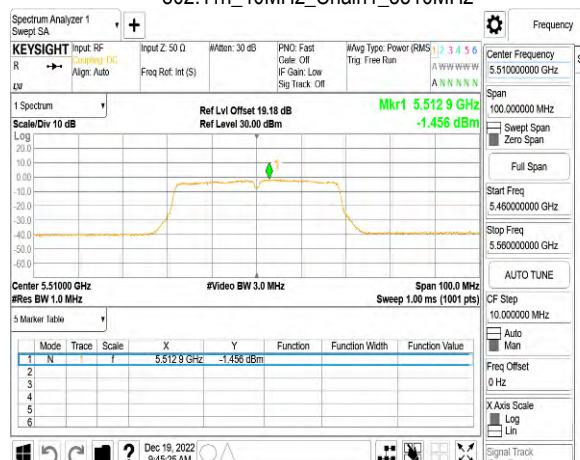
802.11n_40MHz_Chain1_5270MHz



802.11n_40MHz_Chain1_5310MHz



802.11n_40MHz_Chain1_5510MHz



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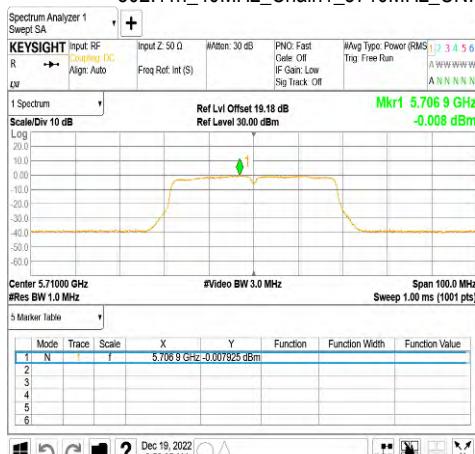
802.11n_40MHz_Chain1_5550MHz



802.11n_40MHz_Chain1_5670MHz



802.11n_40MHz_Chain1_5710MHz_UNII 2C



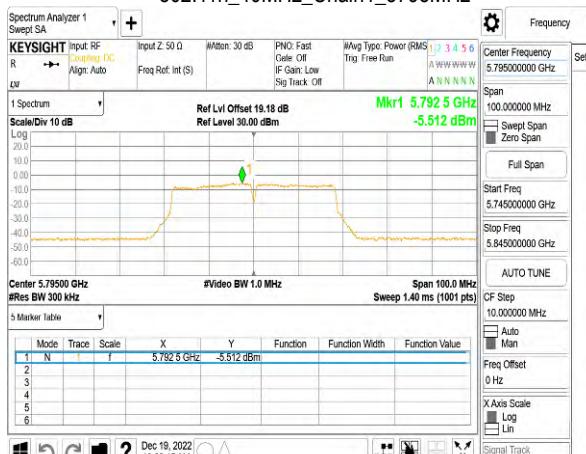
802.11n_40MHz_Chain1_5710MHz_UNII 3



802.11n_40MHz_Chain1_5755MHz



802.11n_40MHz_Chain1_5795MHz



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802.11ac_80MHz_Chain0_5210MHz



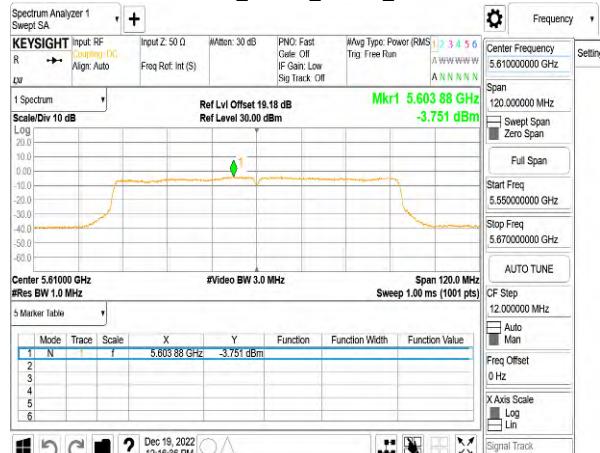
802.11ac_80MHz_Chain0_5290MHz



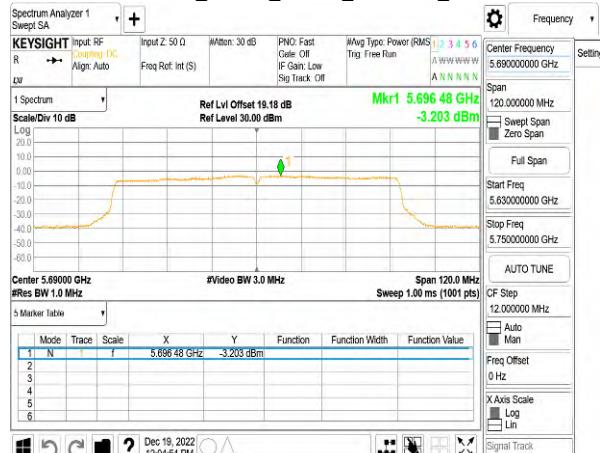
802.11ac_80MHz_Chain0_5530MHz



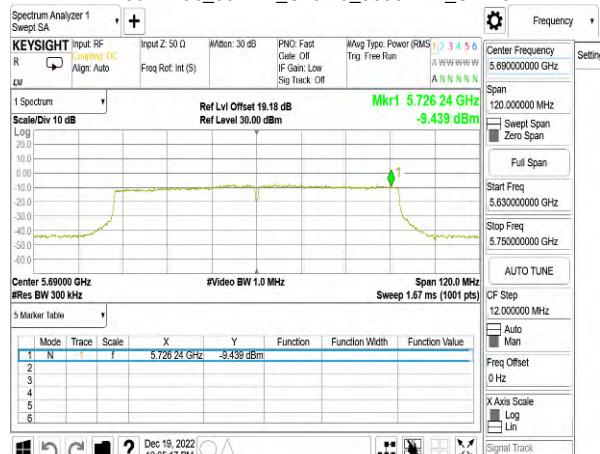
802.11ac_80MHz_Chain0_5610MHz



802.11ac_80MHz_Chain0_5690MHz_UNII_2C



802.11ac_80MHz_Chain0_5690MHz_UNII_3



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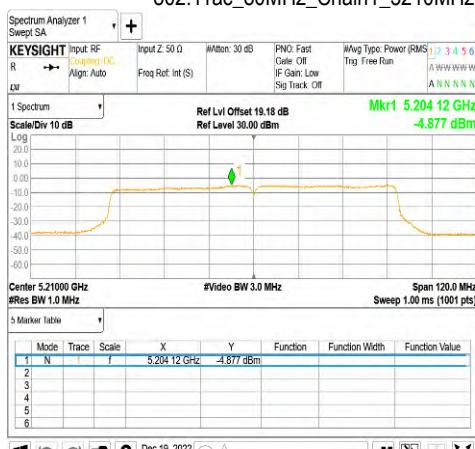
802.11ac_80MHz_Chain0_5775MHz



802.11ac_80MHz_Chain1_5530MHz



802.11ac_80MHz_Chain1_5210MHz



802.11ac_80MHz_Chain1_5610MHz



802.11ac_80MHz_Chain1_5290MHz



802.11ac_80MHz_Chain1_5690MHz_UNII 2C



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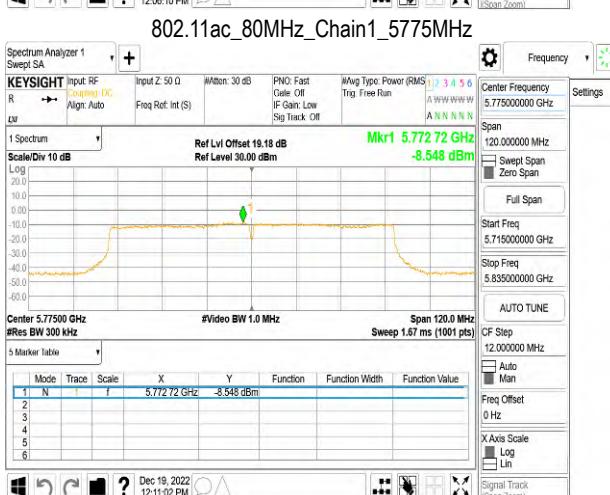
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