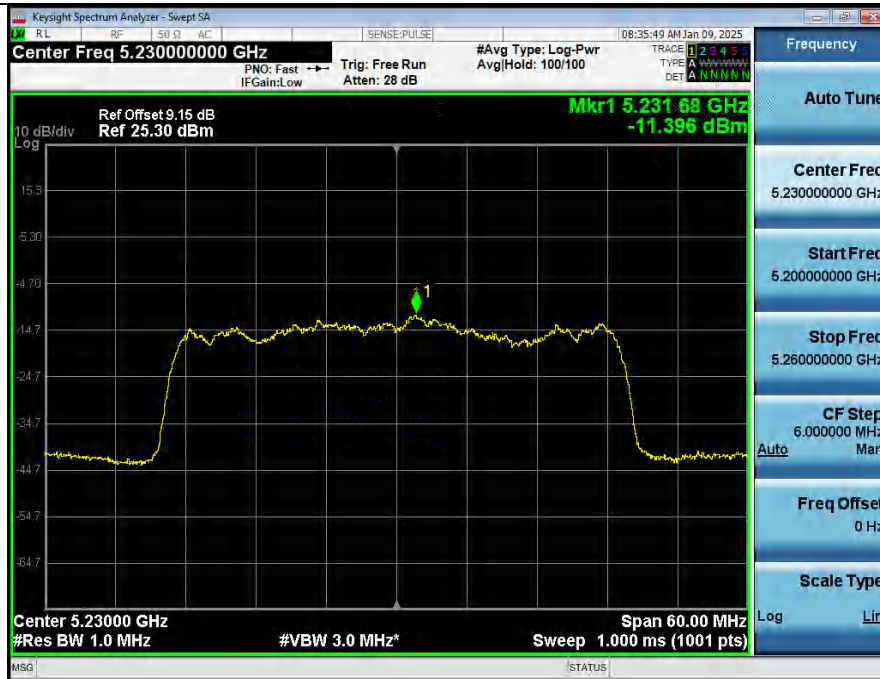


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Power Spectral Density NVNT_ANT2_802_11n(HT40)_5230



Power Spectral Density NVNT_ANT1_802_11ac(VHT40)_5190

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Power_Spectral_Density_NVNT_ANT2_802_11ac(VHT40)_5190



Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT40)_5230

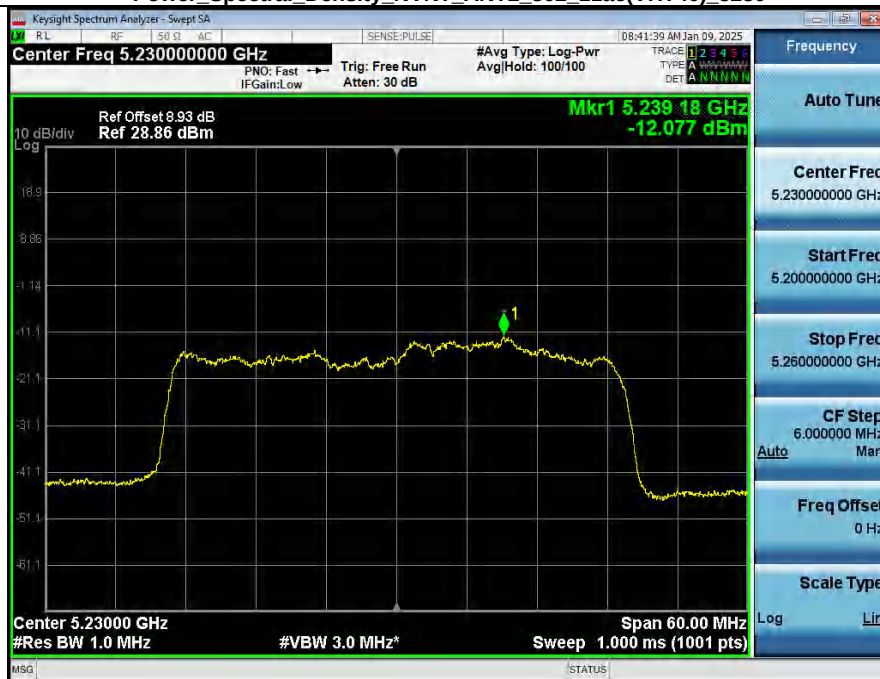
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Power_Spectral_Density_NVNT_ANT2_802_11ac(VHT40)_5230



Power_Spectral_Density_NVNT_ANT1_802_11ax(HE40)_5190

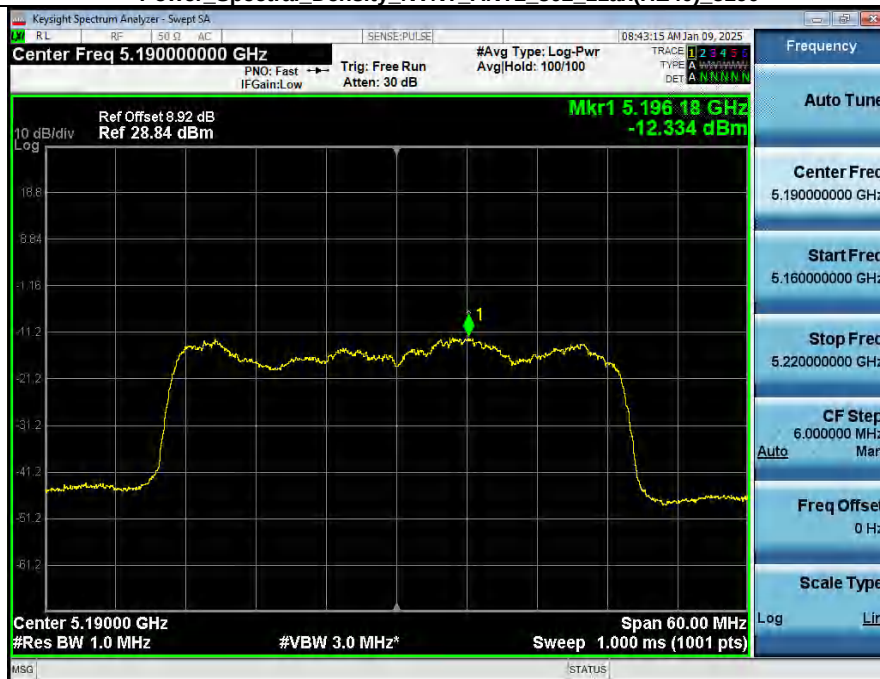
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Power_Spectral_Density_NVNT_ANT2_802_11ax(HE40)_5190

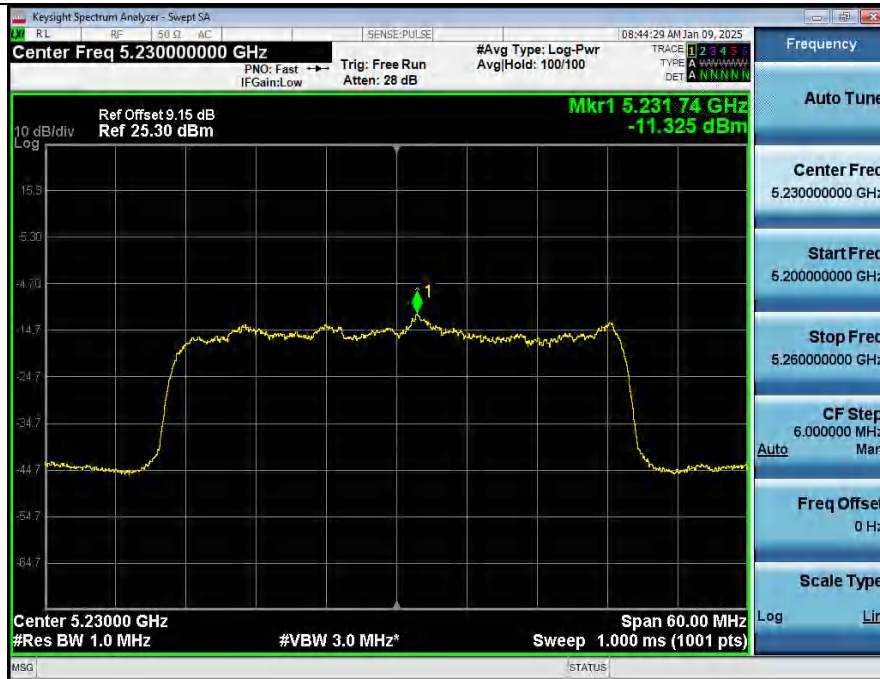


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Power_Spectral_Density_NVNT_ANT2_802_11ax(HE40)_5230



Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT80)_5210

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Power_Spectral_Density_NVNT_ANT2_802_11ac(VHT80)_5210



Power_Spectral_Density_NVNT_ANT1_802_11ax(HE80)_5210

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Power Spectral Density NVNT ANT2_802_11ax(HE80)_5210



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3.2 Test Datas Bands U-NII-3

Condition	Antenna	Modulation	Frequency (MHz)	PSD_SA (dBm/RBW)	Duty factor (dB)	RB factor (dB)	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
NVNT	ANT1	802.11a	5745.00	-3.16	0.32	-0	-2.84	30	Pass
NVNT	ANT2	802.11a	5745.00	-5.79	0.32	-0	-5.47	30	Pass
NVNT	ANT1	802.11a	5785.00	-4.58	0.32	-0	-4.26	30	Pass
NVNT	ANT2	802.11a	5785.00	-6.11	0.29	-0	-5.82	30	Pass
NVNT	ANT1	802.11a	5825.00	-4.07	0.32	-0	-3.75	30	Pass
NVNT	ANT2	802.11a	5825.00	-8.03	0.32	-0	-7.71	30	Pass
NVNT	ANT1	802.11n(HT20)	5745.00	-1.73	0.32	-0	-1.41	30	Pass
NVNT	ANT2	802.11n(HT20)	5745.00	-2.71	0.32	-0	-2.39	30	Pass
NVNT	ANT1	802.11n(HT20)	5785.00	-3.31	0.32	-0	-2.99	30	Pass
NVNT	ANT2	802.11n(HT20)	5785.00	-2.19	0.32	-0	-1.87	30	Pass
NVNT	ANT1	802.11n(HT20)	5825.00	-2.84	0.32	-0	-2.52	30	Pass
NVNT	ANT2	802.11n(HT20)	5825.00	-2.96	0.32	-0	-2.64	30	Pass
NVNT	ANT1	802.11ac(VHT20)	5745.00	-2.76	0.00	-0	-2.76	30	Pass
NVNT	ANT2	802.11ac(VHT20)	5745.00	-2.62	0.00	-0	-2.62	30	Pass
NVNT	ANT1	802.11ac(VHT20)	5785.00	-2.02	0.00	-0	-2.02	30	Pass
NVNT	ANT2	802.11ac(VHT20)	5785.00	-2.24	0.00	-0	-2.24	30	Pass
NVNT	ANT1	802.11ac(VHT20)	5825.00	-2.76	0.00	-0	-2.76	30	Pass
NVNT	ANT2	802.11ac(VHT20)	5825.00	-3.10	0.00	-0	-3.10	30	Pass
NVNT	ANT1	802.11ax(HE20)	5745.00	-1.72	0.00	-0	-1.72	30	Pass
NVNT	ANT2	802.11ax(HE20)	5745.00	-2.09	0.00	-0	-2.09	30	Pass
NVNT	ANT1	802.11ax(HE20)	5785.00	-3.29	0.00	-0	-3.29	30	Pass
NVNT	ANT2	802.11ax(HE20)	5785.00	-2.48	0.00	-0	-2.48	30	Pass
NVNT	ANT1	802.11ax(HE20)	5825.00	-2.58	0.00	-0	-2.58	30	Pass
NVNT	ANT2	802.11ax(HE20)	5825.00	-3.61	0.00	-0	-3.61	30	Pass
NVNT	ANT1	802.11n(HT40)	5755.00	-7.51	0.62	-0	-6.89	30	Pass
NVNT	ANT2	802.11n(HT40)	5755.00	-7.50	0.62	-0	-6.88	30	Pass
NVNT	ANT1	802.11n(HT40)	5795.00	-11.51	0.62	-0	-10.89	30	Pass
NVNT	ANT2	802.11n(HT40)	5795.00	-12.88	0.62	-0	-12.26	30	Pass
NVNT	ANT1	802.11ac(VHT40)	5755.00	-4.44	0.00	-0	-4.44	30	Pass
NVNT	ANT2	802.11ac(VHT40)	5755.00	-6.87	0.00	-0	-6.87	30	Pass
NVNT	ANT1	802.11ac(VHT40)	5795.00	-5.48	0.00	-0	-5.48	30	Pass
NVNT	ANT2	802.11ac(VHT40)	5795.00	-7.89	0.00	-0	-7.89	30	Pass
NVNT	ANT1	802.11ax(HE40)	5755.00	-5.03	0.17	-0	-4.86	30	Pass
NVNT	ANT2	802.11ax(HE40)	5755.00	-7.54	0.17	-0	-7.37	30	Pass
NVNT	ANT1	802.11ax(HE40)	5795.00	-6.26	0.17	-0	-6.09	30	Pass
NVNT	ANT2	802.11ax(HE40)	5795.00	-8.83	0.17	-0	-8.66	30	Pass
NVNT	ANT1	802.11ac(VHT80)	5775.00	-8.40	0.00	-0	-8.40	30	Pass
NVNT	ANT2	802.11ac(VHT80)	5775.00	-11.02	0.00	-0	-11.02	30	Pass
NVNT	ANT1	802.11ax(HE80)	5775.00	-10.02	0.31	-0	-9.71	30	Pass
NVNT	ANT2	802.11ax(HE80)	5775.00	-12.55	0.31	-0	-12.24	30	Pass

Condition	Antenna	Mode	Frequency (MHz)	MIMO PSD(dBm/500kHz)	Limit(dBm/500kHz)	Result
NVNT	MIMO_TX	802.11n(HT20)	5745.00	0.45	30	Pass
NVNT	MIMO_TX	802.11n(HT20)	5785.00	-0.04	30	Pass
NVNT	MIMO_TX	802.11n(HT20)	5825.00	-0.35	30	Pass
NVNT	MIMO_TX	802.11ac(VHT20)	5745.00	0.01	30	Pass
NVNT	MIMO_TX	802.11ac(VHT20)	5785.00	0.54	30	Pass
NVNT	MIMO_TX	802.11ac(VHT20)	5825.00	-0.58	30	Pass
NVNT	MIMO_TX	802.11ax(HE20)	5745.00	0.73	30	Pass
NVNT	MIMO_TX	802.11ax(HE20)	5785.00	-0.30	30	Pass
NVNT	MIMO_TX	802.11ax(HE20)	5825.00	-0.68	30	Pass
NVNT	MIMO_TX	802.11n(HT40)	5755.00	-4.88	30	Pass
NVNT	MIMO_TX	802.11n(HT40)	5795.00	-8.89	30	Pass
NVNT	MIMO_TX	802.11ac(VHT40)	5755.00	-3.13	30	Pass
NVNT	MIMO_TX	802.11ac(VHT40)	5795.00	-3.87	30	Pass
NVNT	MIMO_TX	802.11ax(HE40)	5755.00	-3.68	30	Pass
NVNT	MIMO_TX	802.11ax(HE40)	5795.00	-4.50	30	Pass
NVNT	MIMO_TX	802.11ac(VHT80)	5775.00	-6.88	30	Pass
NVNT	MIMO_TX	802.11ax(HE80)	5775.00	-8.33	30	Pass

Note: The cable loss and duty cycle factor are taken into account in results, e.i.r.p.=P_(Peak power)+ G

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Power Spectral Density NVNT_ANT2_802_11a_5745



Power Spectral Density NVNT_ANT1_802_11a_5785

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Power_Spectral_Density NVNT_ANT1_802_11a_5825

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Power_Spectral_Density NVNT_ANT1_802_11n(HT20)_5745

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Power Spectral Density NVNT_ANT2_802_11n(HT20)_5745



Power Spectral Density NVNT_ANT1_802_11n(HT20)_5785

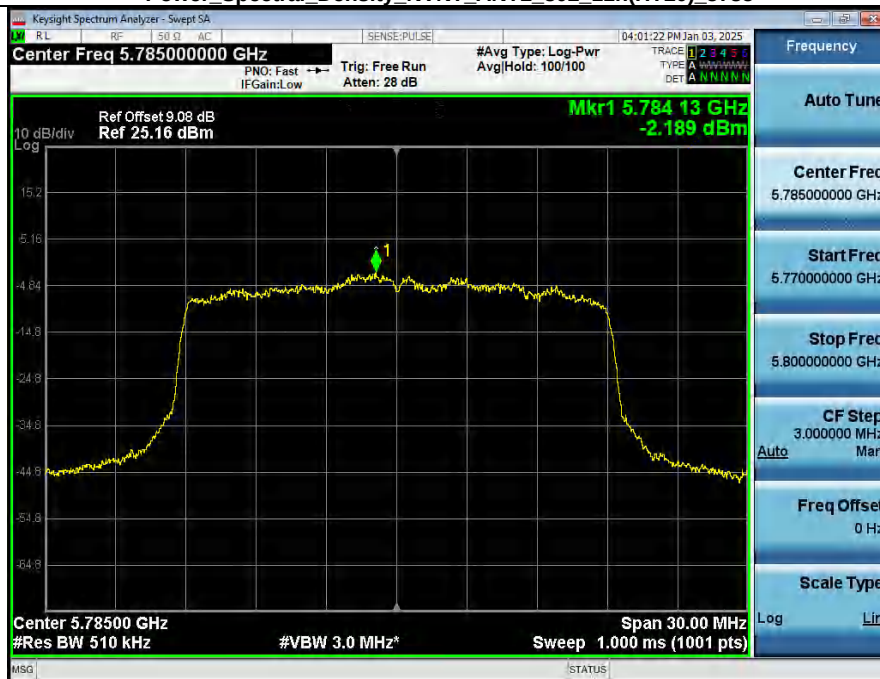
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Power Spectral Density NVNT_ANT2_802_11n(HT20)_5785



Power Spectral Density NVNT_ANT1_802_11n(HT20)_5825

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Power Spectral Density NVNT_ANT1_802_11ac(VHT20)_5745

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Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT20)_5785

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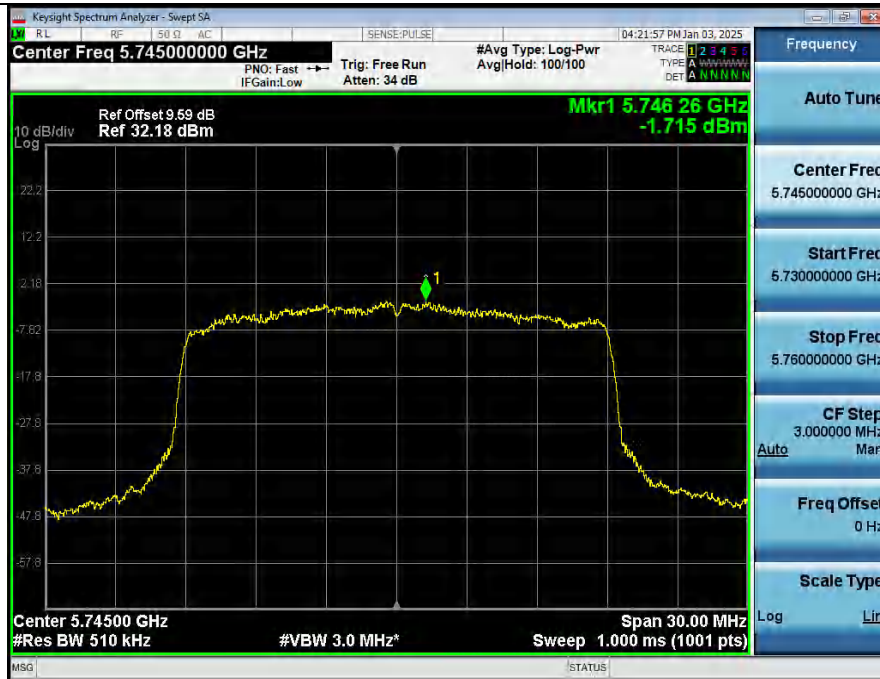


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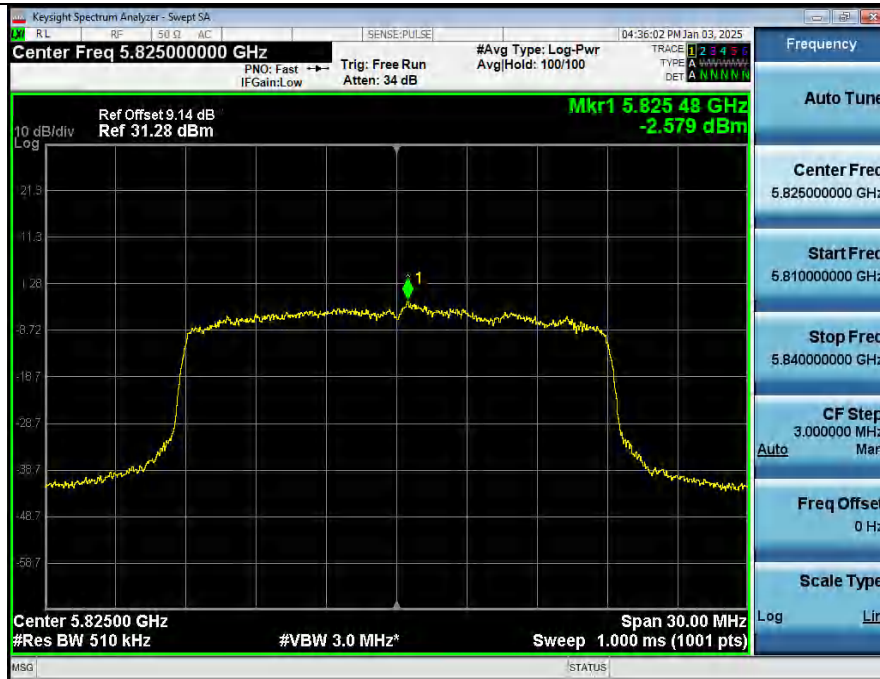


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Power Spectral Density NVNT ANT2 802_11ax(HE20) 5825



Power Spectral Density NVNT ANT1 802_11n(HT40) 5755

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Power Spectral Density NVNT_ANT2_802_11n(HT40)_5755

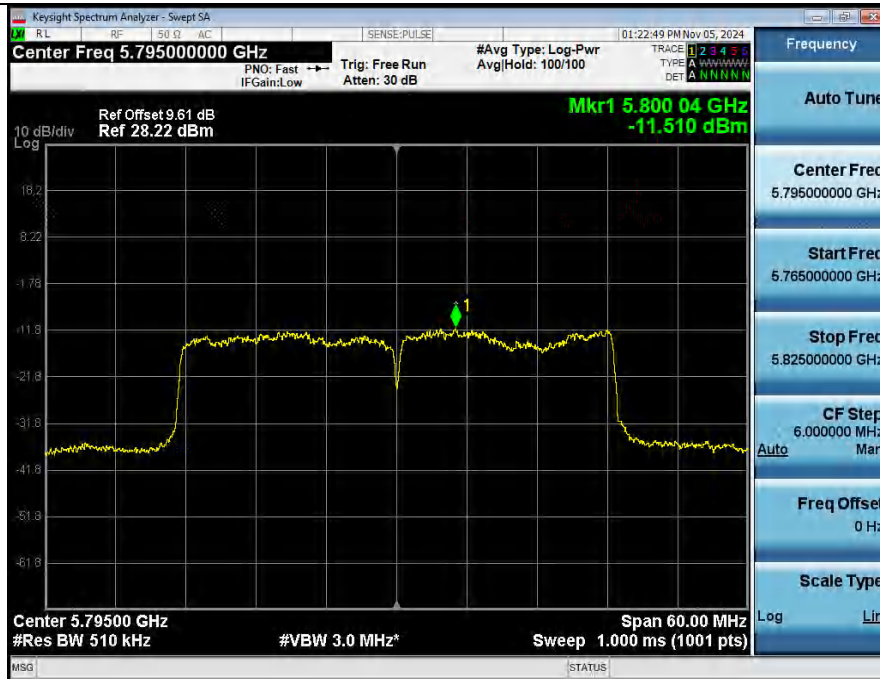


Power Spectral Density NVNT_ANT1_802_11n(HT40)_5795

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Power_Spectral_Density_NVNT_ANT2_802_11n(HT40)_5795



Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT40)_5755

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Power_Spectral_Density_NVNT_ANT2_802_11ac(VHT40)_5755



Power_Spectral_Density_NVNT_ANT1_802_11ac(VHT40)_5795

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Power_Spectral_Density_NVNT_ANT1_802_11ax(HE40)_5755

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Power_Spectral_Density_NVNT_ANT2_802_11ax(HE40)_5755



Power_Spectral_Density_NVNT_ANT1_802_11ax(HE40)_5795

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Power Spectral Density NVNT ANT2 802_11ax(HE40) 5795



Power Spectral Density NVNT ANT1 802_11ac(VHT80) 5775

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Power_Spectral_Density_NVNT_ANT1_802_11ax(HE80)_5775

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4. Transmitter Spurious Emissions

Note:

1. Testing is carried out with frequency rang 9kHz to the tenth harmonics. And it verified that the emssions above 18GHz are just floor-nises, no need to report it.
2. The highest emissions are the fundamental waves, the emissions more than 20dB below the limits not recorded.
3. All modes for required channel tested, only the worst-case reported.

4.1 Transmitter Spurious Emissions, Below 1GHz

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U-NII-1 Band:



Shenzhen PSI Testing Co., Ltd.
1-2F, Building 5, Yudafu Industrial Park, No. 10, Xingye West Road,
Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104

Test Site: PSI EMC Lab-3m Chamber Polarization: **Horizontal** Temperature: 26 °C
EUT: See note Distance: 3m Humidity: 54 %RH
M/N: See note Test Engineer: Felix Pang
Test Mode: 11a 5180MHz(Ant 1)
Test Voltage: DC 24V
Note: Optical 3D Measuring and Dynamic Tracking System
FreeScan Trak ProW(FreeScan TE25 W)

Radiated Emission Measurement

Test Date: 2024/10/31 10:37:48



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	125.0065	15.95	12.89	28.84	43.50	-14.66	QP	200	124	P	
2	148.4410	11.49	14.09	25.58	43.50	-17.92	QP	200	103	P	
3	195.8220	18.71	11.41	30.12	43.50	-13.38	QP	200	157	P	
4	219.0753	28.99	11.87	40.86	46.00	-5.14	QP	200	142	P	
5 *	286.9823	27.43	14.67	42.10	46.00	-3.90	QP	200	201	P	
6	614.2142	14.44	23.12	37.56	46.00	-8.44	QP	200	136	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit

File: TX 30-1000M\Data :#2

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Engineer Signature:

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Shenzhen PSI Testing Co., Ltd.
1-2F, Building 5, Yudafu Industrial Park, No. 10, Xingye West Road,
Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104

Test Site: PSI EMC Lab-3m Chamber Polarization: **Horizontal** Temperature: 26 °C
EUT: See note Distance: 3m Humidity: 54 %RH
M/N: See note Test Engineer: Felix Pang
Test Mode: 11a 5200MHz(Ant 1)
Test Voltage: DC 24V
Note: Optical 3D Measuring and Dynamic Tracking System
FreeScan Trak ProW(FreeScan TE25 W)

Radiated Emission Measurement

Test Date: 2024/10/31 10:41:58



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	125.0065	14.79	12.89	27.68	43.50	-15.82	QP	200	210	P	
2	197.8928	20.67	11.28	31.95	43.50	-11.55	QP	200	145	P	
3	219.0753	26.50	11.87	38.37	46.00	-7.63	QP	200	178	P	
4 *	289.0020	26.86	14.70	41.56	46.00	-4.44	QP	200	154	P	
5	351.7080	18.02	16.36	34.38	46.00	-11.62	QP	200	201	P	
6	584.7894	15.19	22.47	37.66	46.00	-8.34	QP	200	234	P	

Note: *:Maximum data x:Over limit !:over margin Level = Reading + Factor Margin = Level - Limit