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Appendix for 5.8G WIFI

Applicant: Howen Technologies Co., Ltd.

**Address: Room 2001 & 2004, Building 2A, Shenzhen International
Innovation Valley, Dashi 1st Road, Nanshan District, Shenzhen,
China**

Product Name: Dashcam

**Model: Hero-MC30-01, Hero-MC30-02, Hero-MC30-03, Hero-ME41-02,
Hero-ME41-03, Hero-ME40-01, Hero-ME40-02, Hero-ME40-03, Hero-
MA90-01, Hero-MA90-02, Hero-MA90-03**

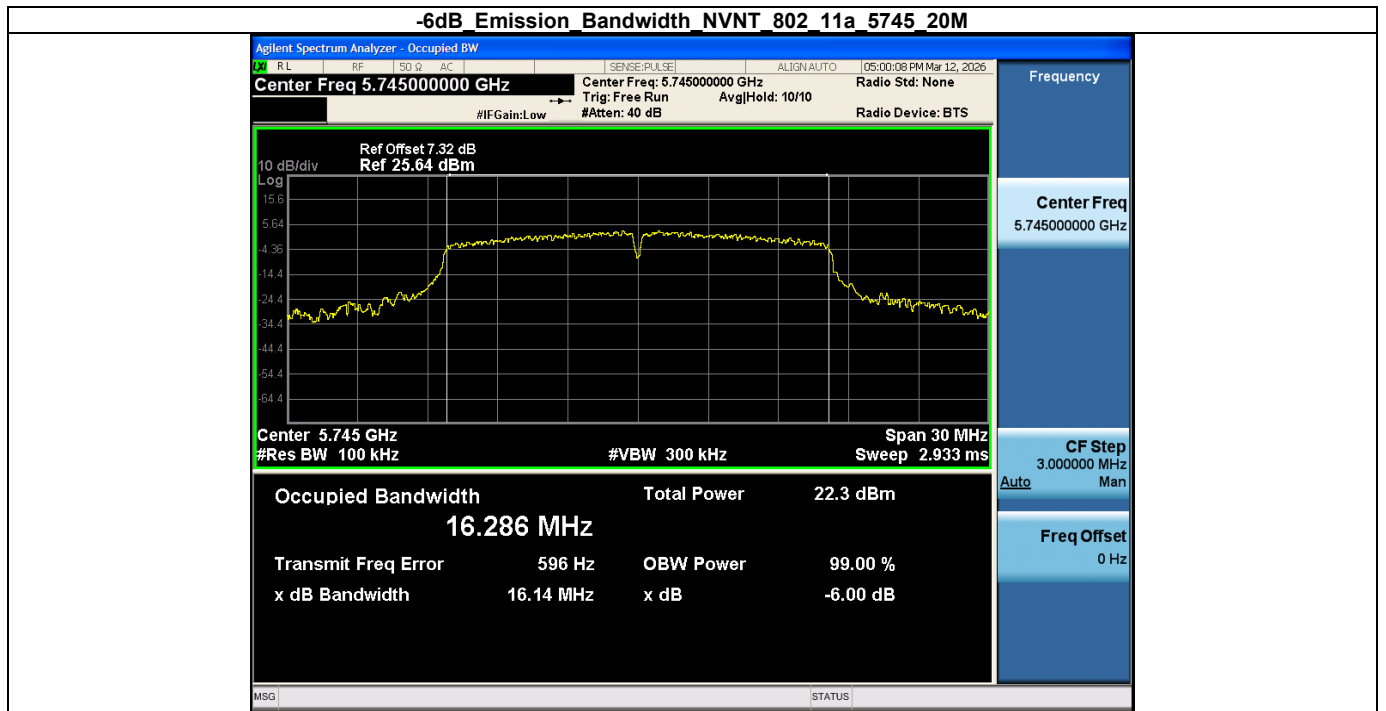
FCC ID: 2AGBD-HERO-MC30-01

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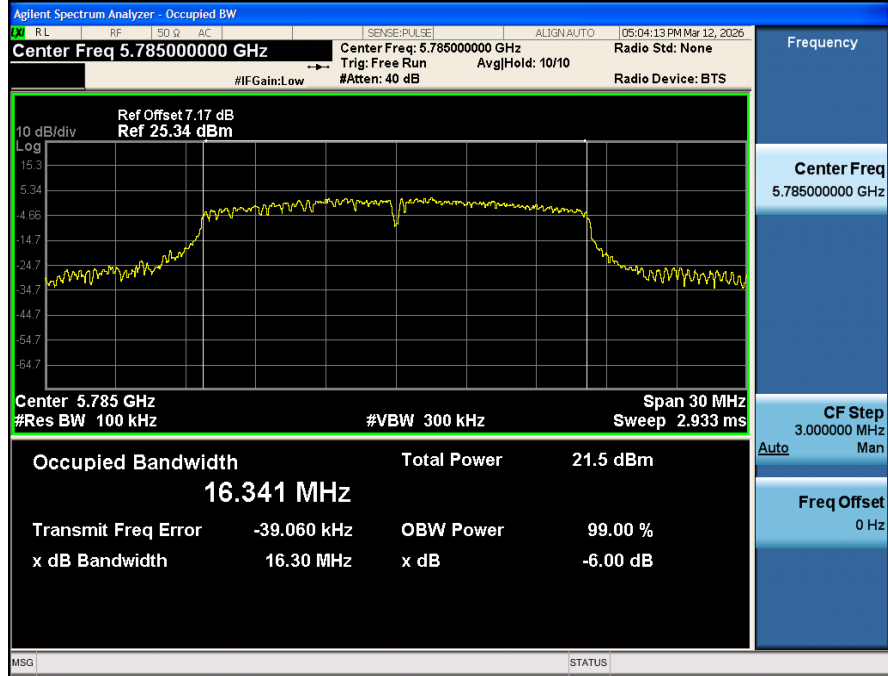
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1. -6dB Emission Bandwidth

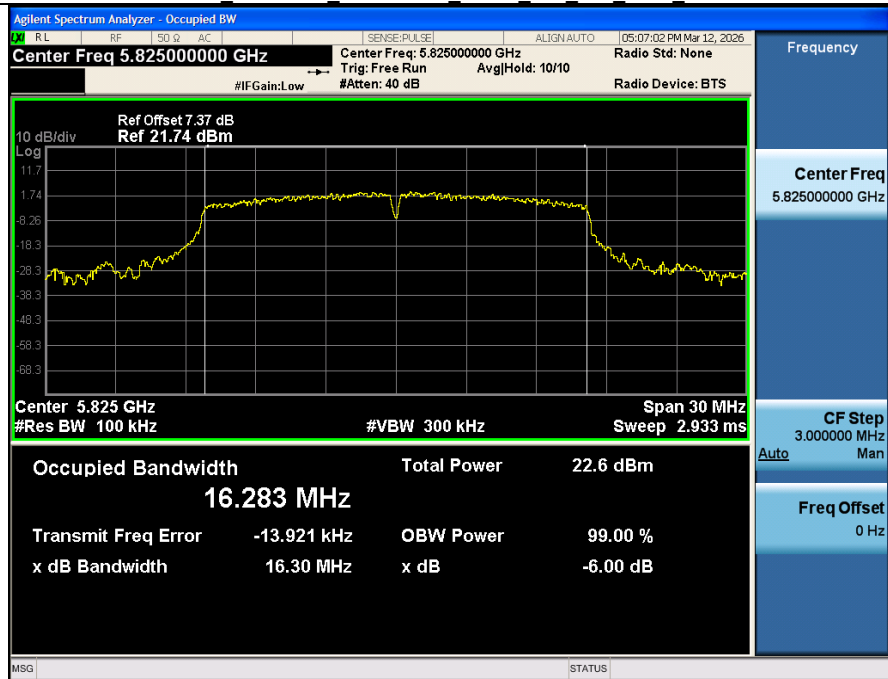
Condition	Mode	Frequency(MHz)	-6dB Emission Bandwidth(MHz)	Limit(MHz)	Result
NVNT	802.11a	5745.00	16.139	>0.500	Pass
NVNT	802.11a	5785.00	16.304	>0.500	Pass
NVNT	802.11a	5825.00	16.301	>0.500	Pass
NVNT	802.11n(HT20)	5745.00	16.928	>0.500	Pass
NVNT	802.11n(HT20)	5785.00	16.830	>0.500	Pass
NVNT	802.11n(HT20)	5825.00	16.816	>0.500	Pass
NVNT	802.11n(HT40)	5755.00	33.188	>0.500	Pass
NVNT	802.11n(HT40)	5795.00	33.945	>0.500	Pass



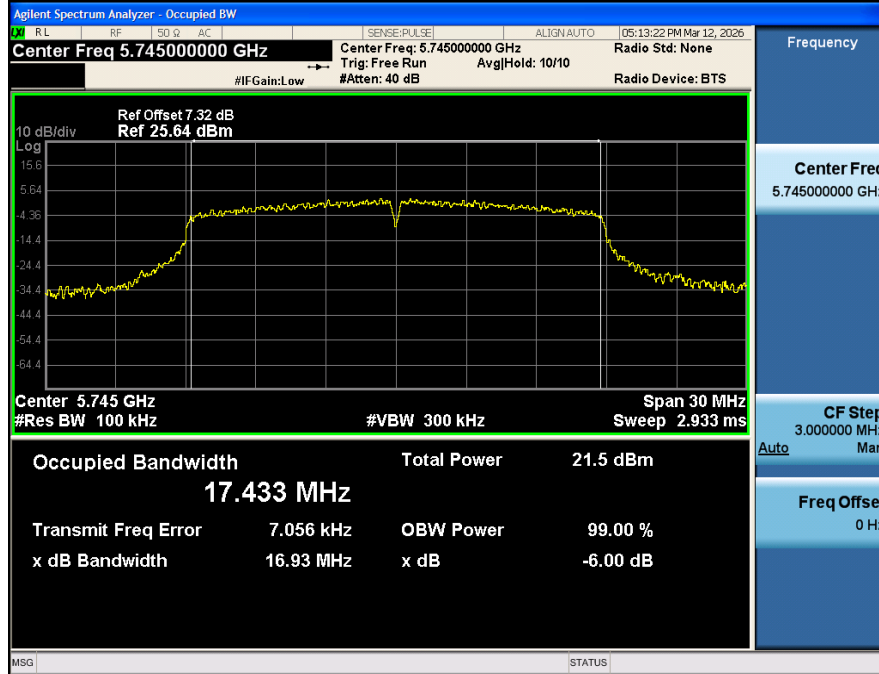
-6dB Emission Bandwidth NVNT 802_11a 5785 20M



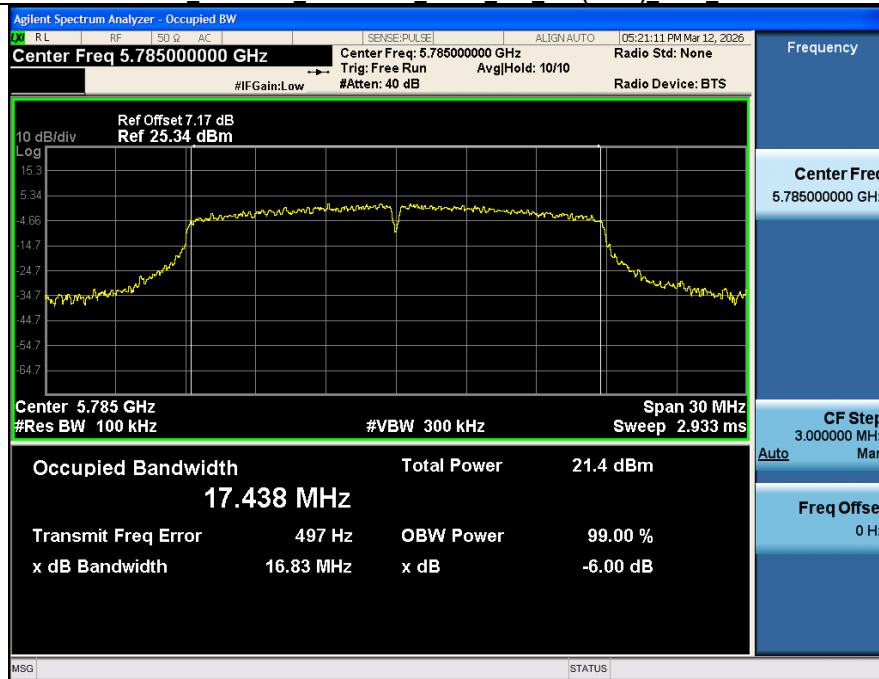
-6dB Emission Bandwidth NVNT 802 11a 5825 20M



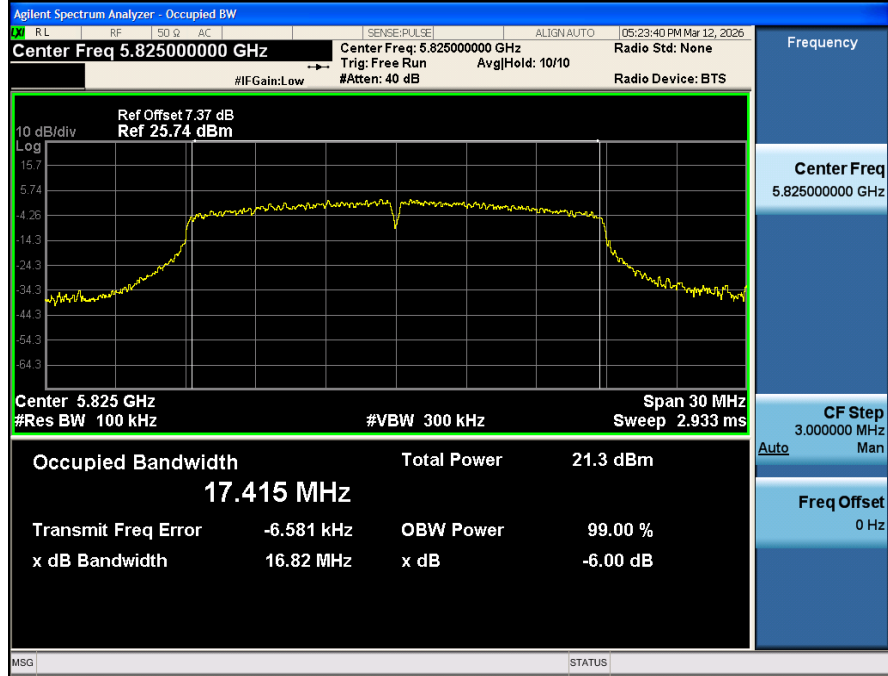
-6dB Emission Bandwidth NVNT 802 11n(HT20) 5745 20M



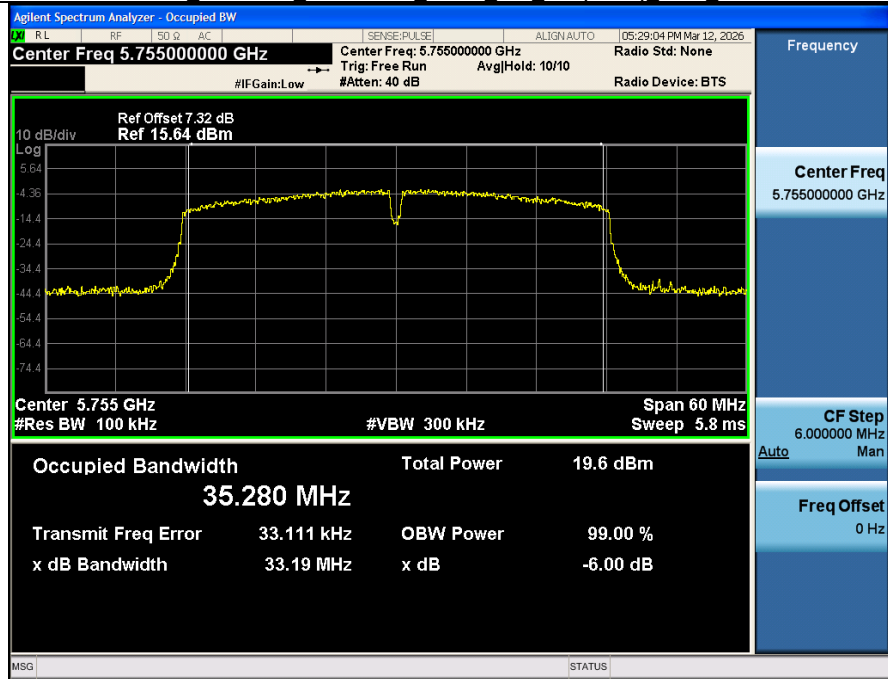
-6dB Emission Bandwidth NVNT 802 11n(HT20) 5785 20M



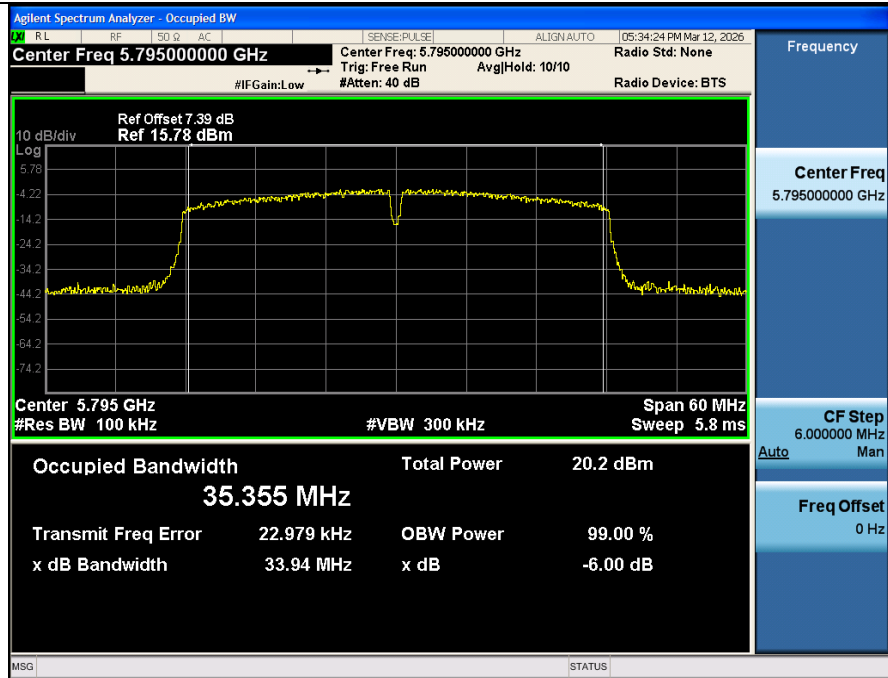
-6dB Emission Bandwidth NVNT 802 11n(HT20) 5825 20M



-6dB Emission Bandwidth NVNT 802 11n(HT40) 5755 40M

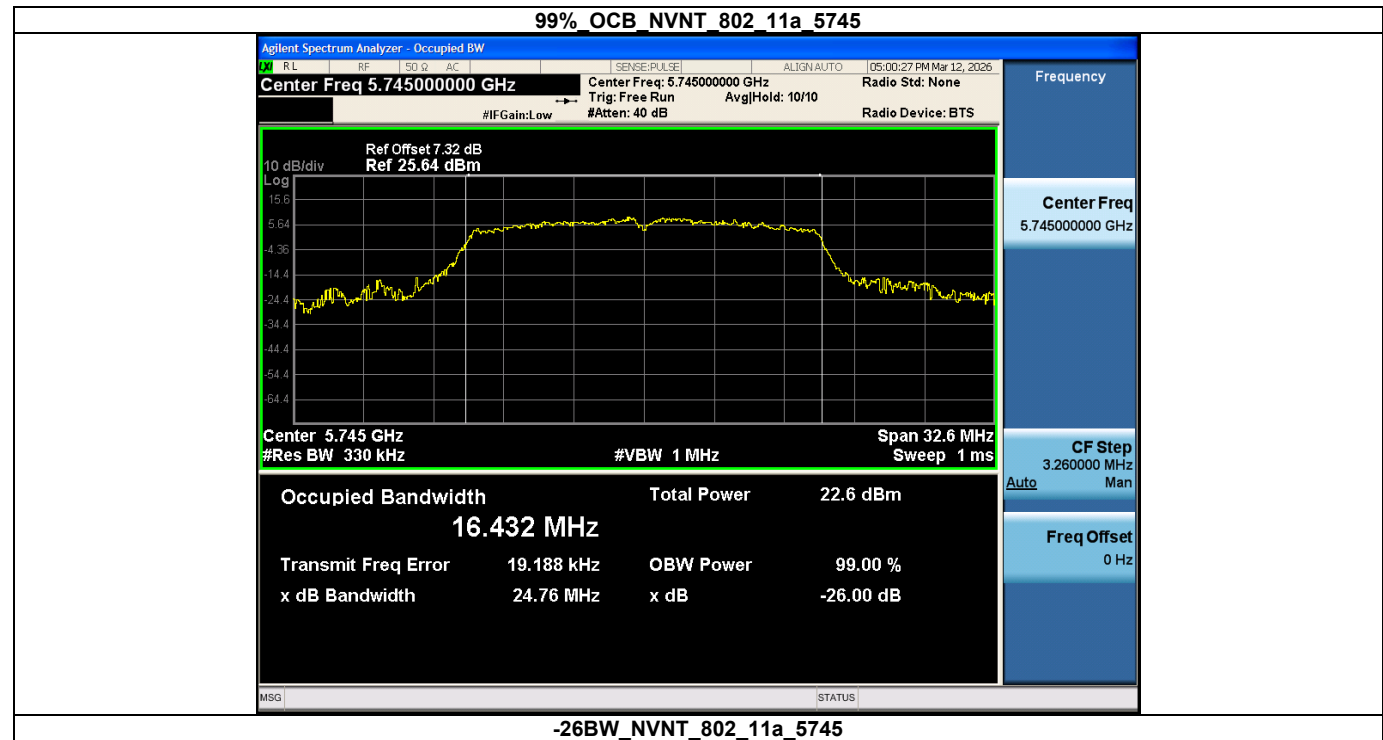


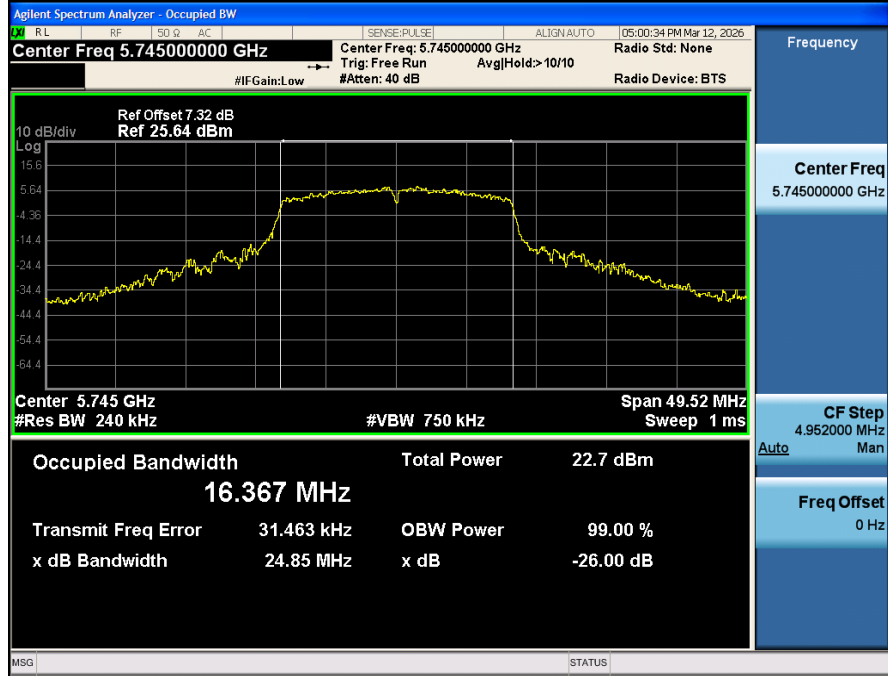
-6dB Emission Bandwidth NVNT 802 11n(HT40) 5795 40M



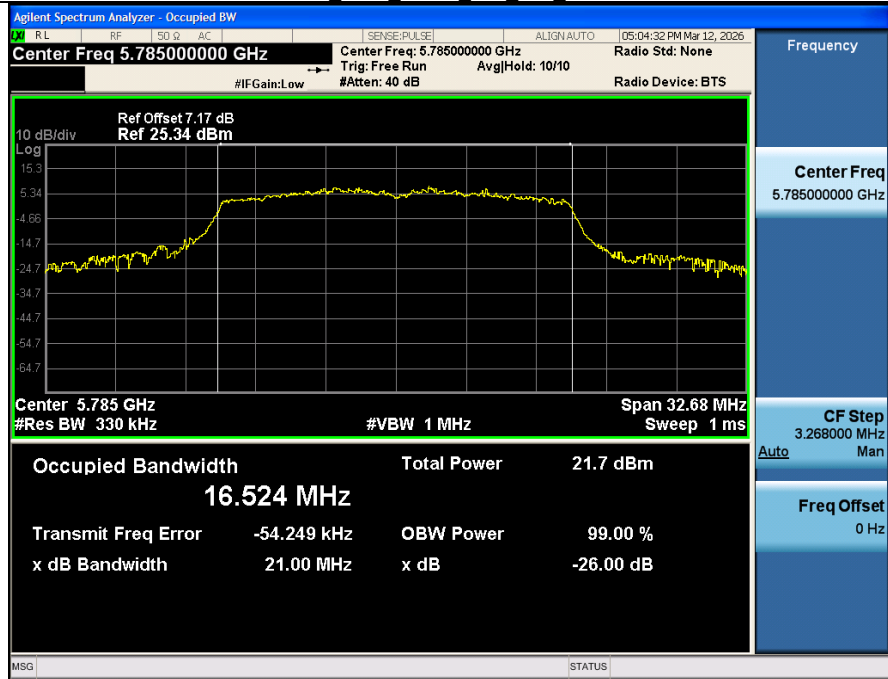
2. -26dB and 99% Emission Bandwidth

Condition	Modulation	Frequency(MHz)	-26dB_Emission_Bandwidth(MHz)	Occupied Bandwidth(MHz)
NVNT	802.11a	5745.00	24.85	16.43
NVNT	802.11a	5785.00	20.68	16.52
NVNT	802.11a	5825.00	23.05	16.52
NVNT	802.11n(HT20)	5745.00	20.66	17.54
NVNT	802.11n(HT20)	5785.00	20.38	17.52
NVNT	802.11n(HT20)	5825.00	20.20	17.50
NVNT	802.11n(HT40)	5755.00	37.93	35.27
NVNT	802.11n(HT40)	5795.00	38.03	35.30

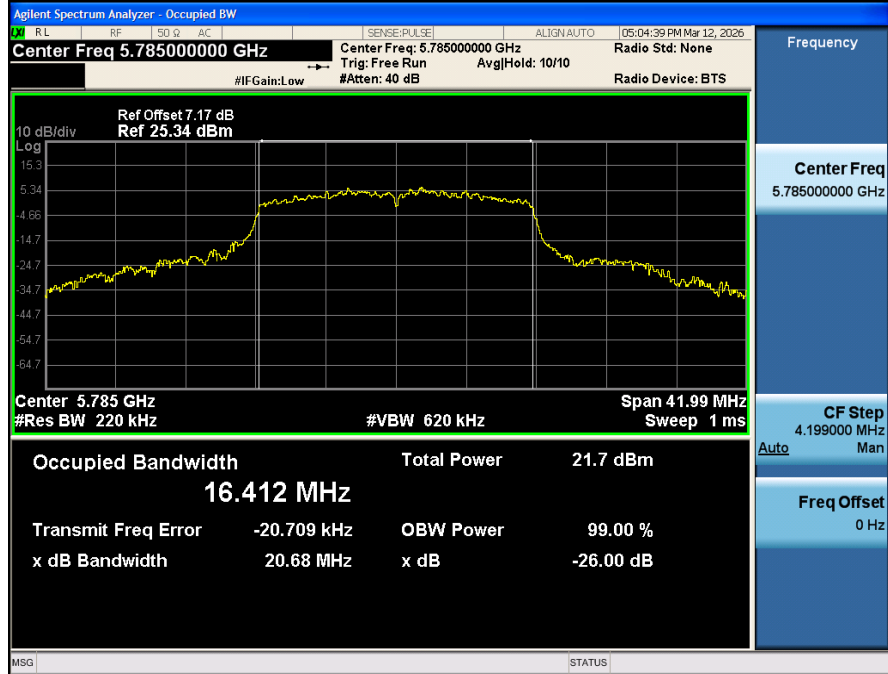




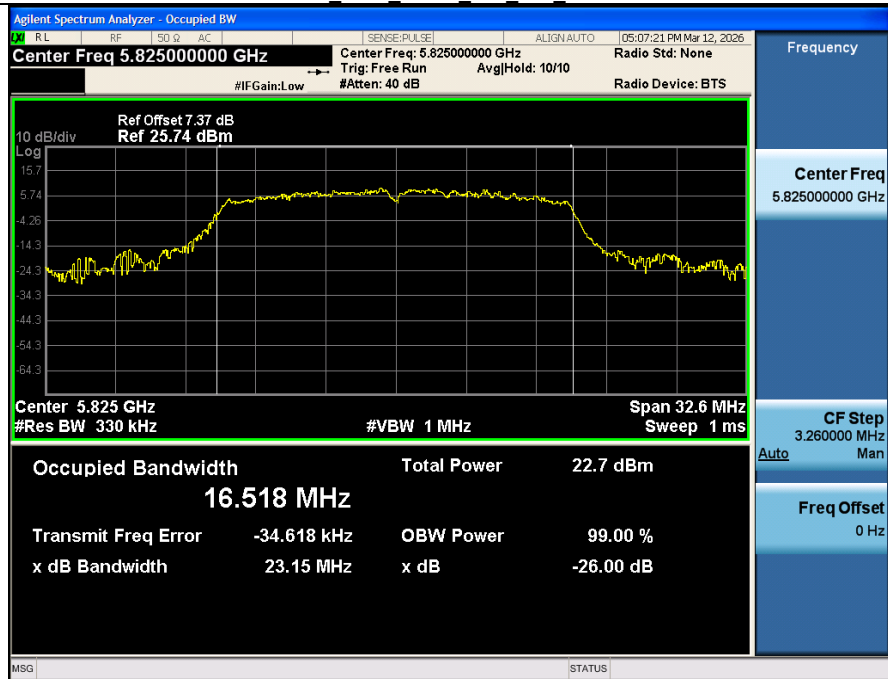
99% OCB NVNT 802_11a_5785



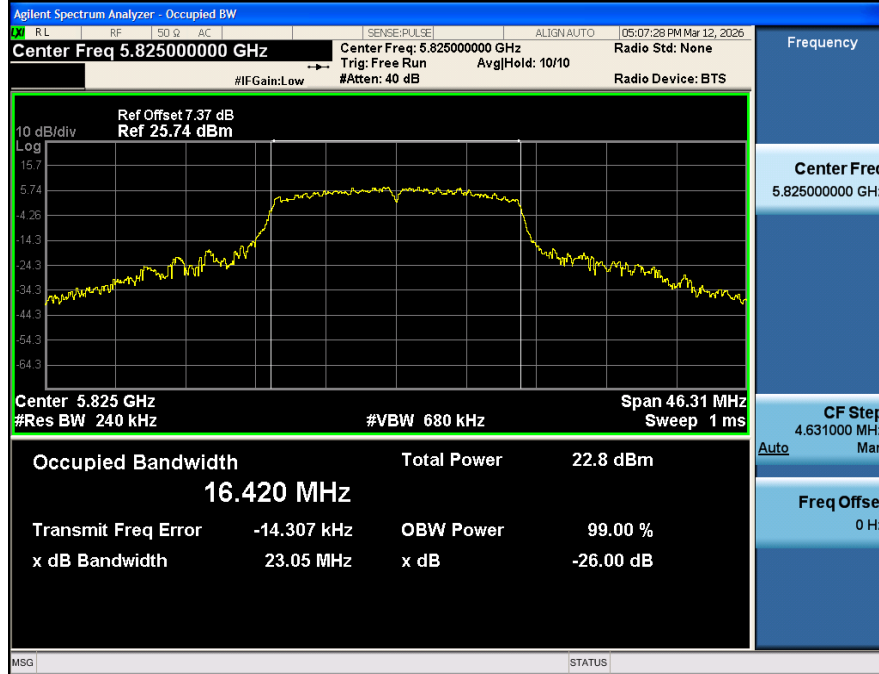
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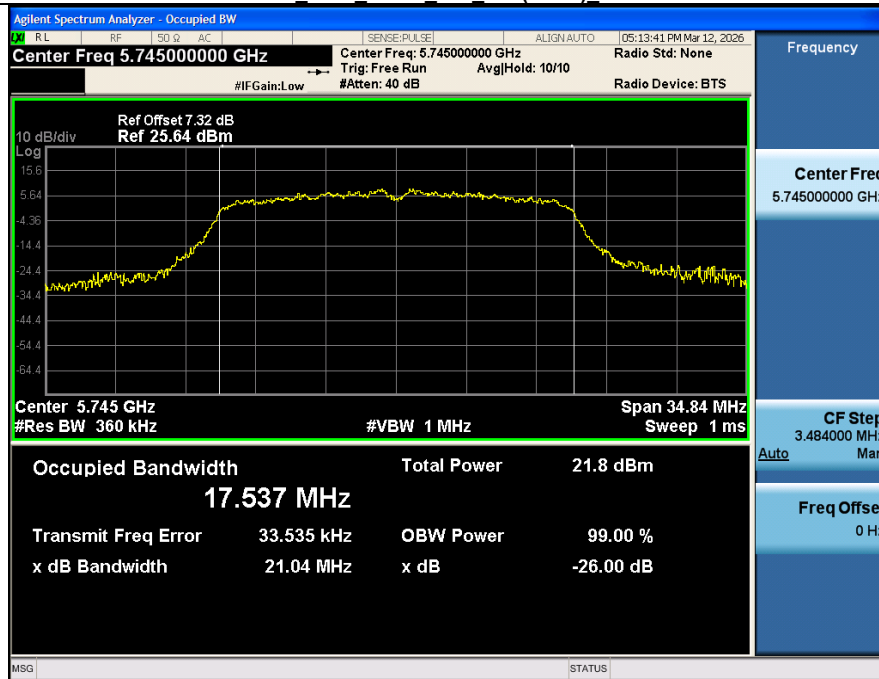
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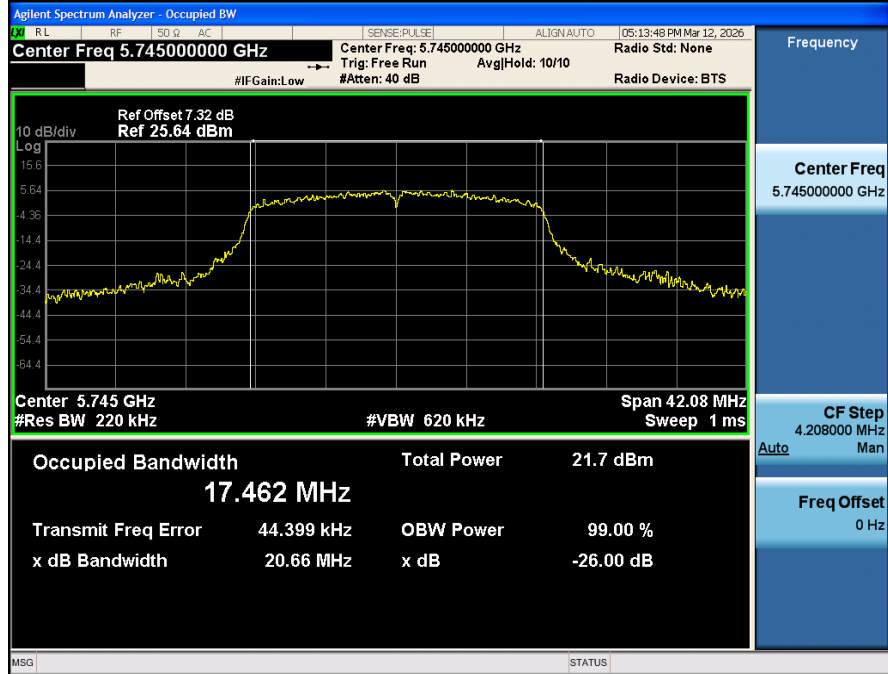
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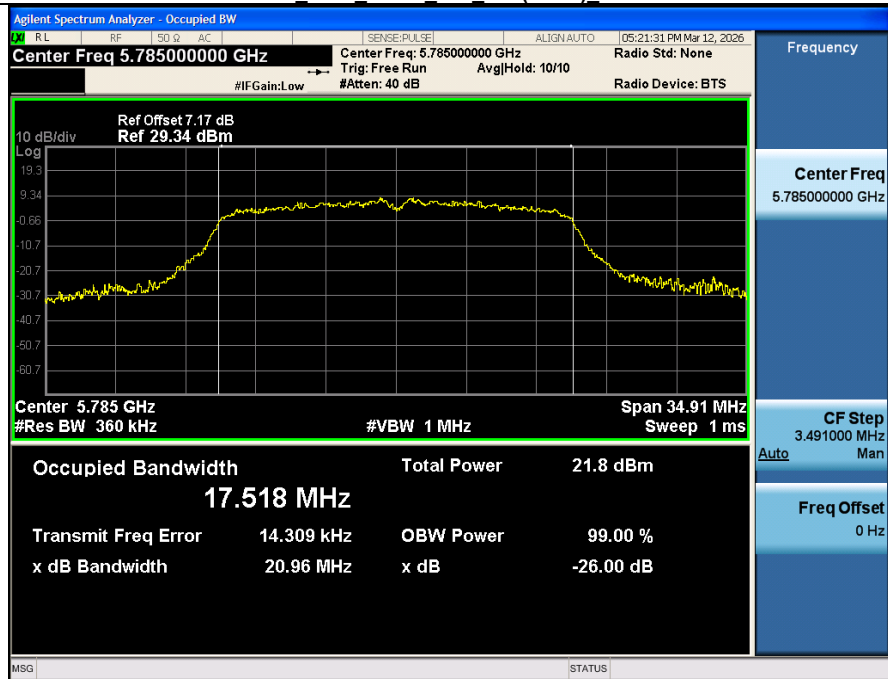
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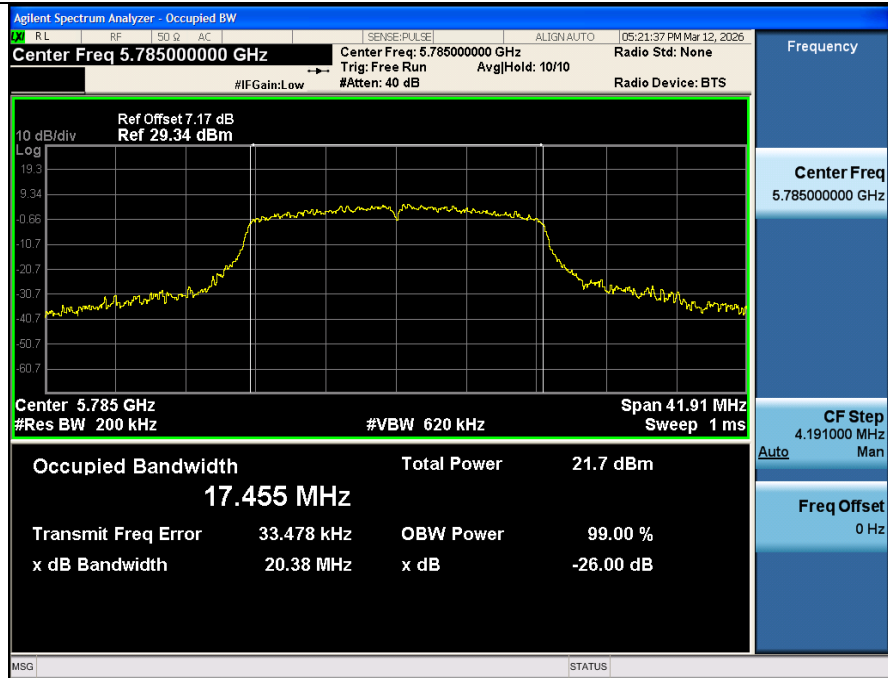
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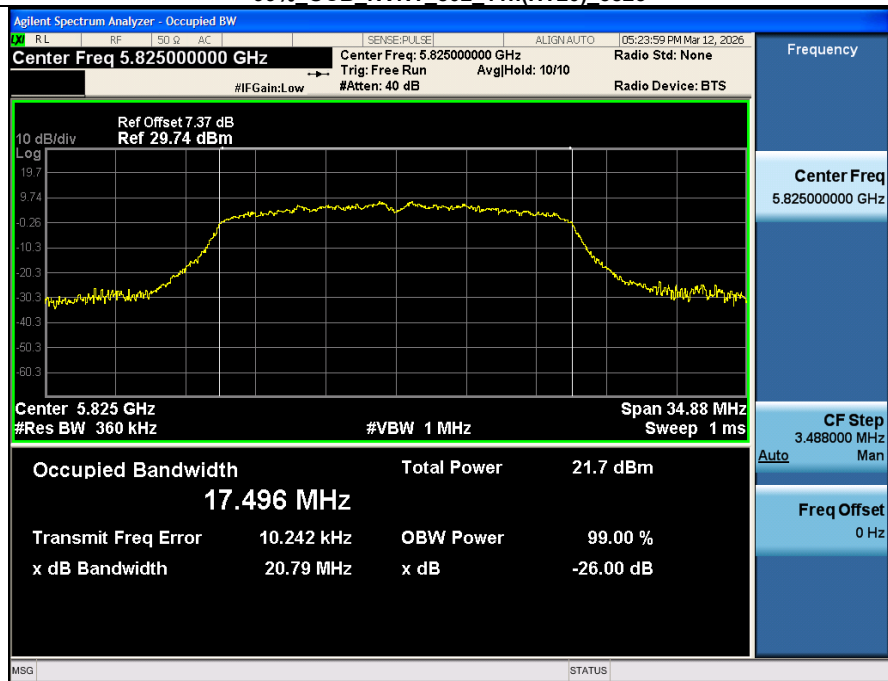
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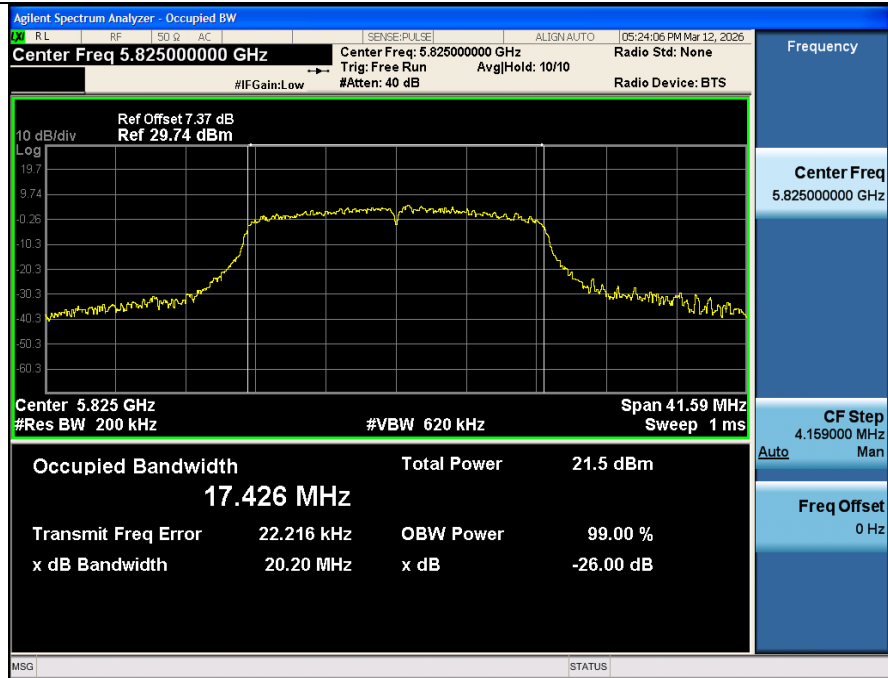
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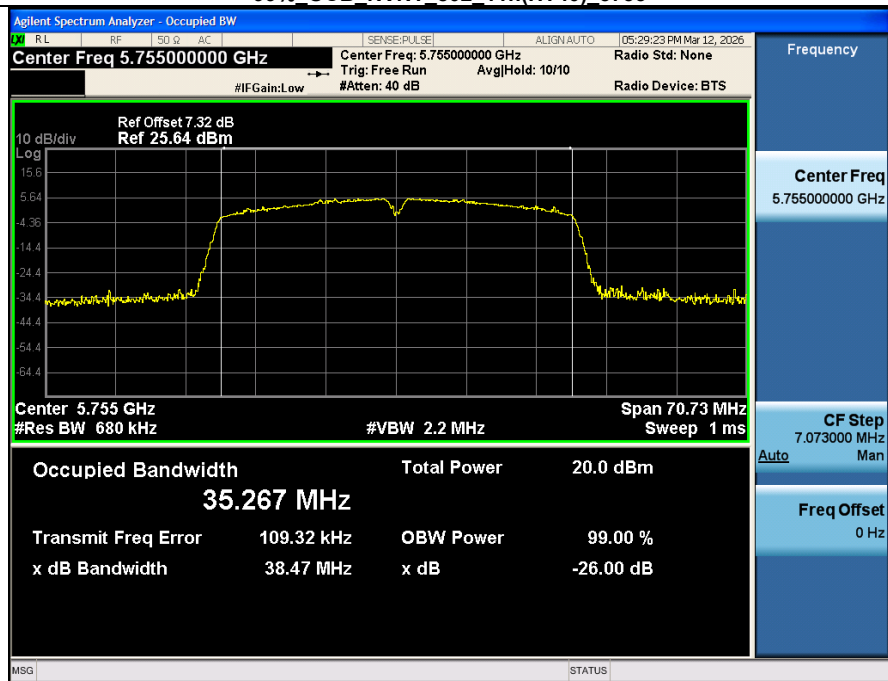
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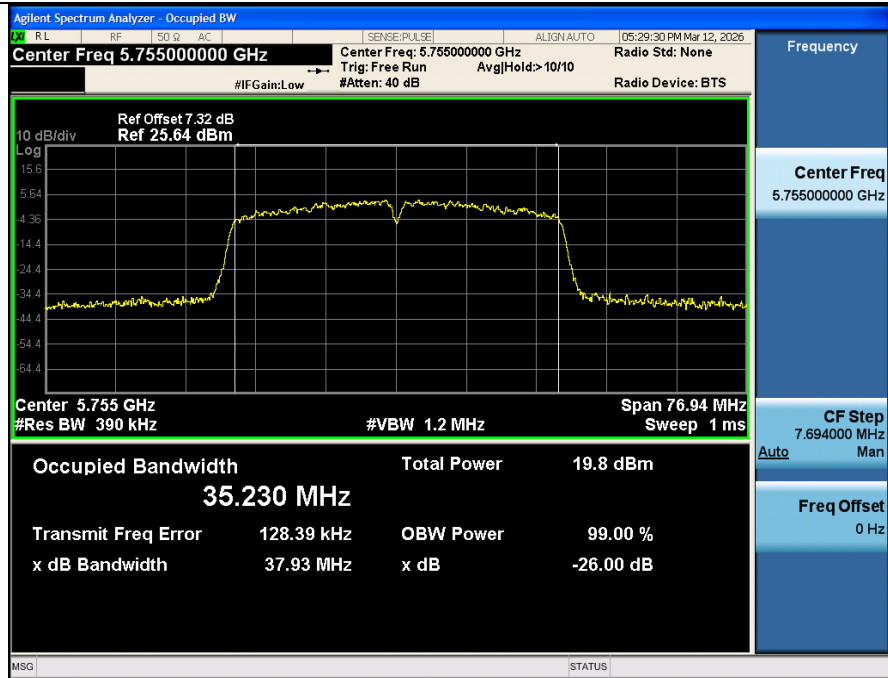
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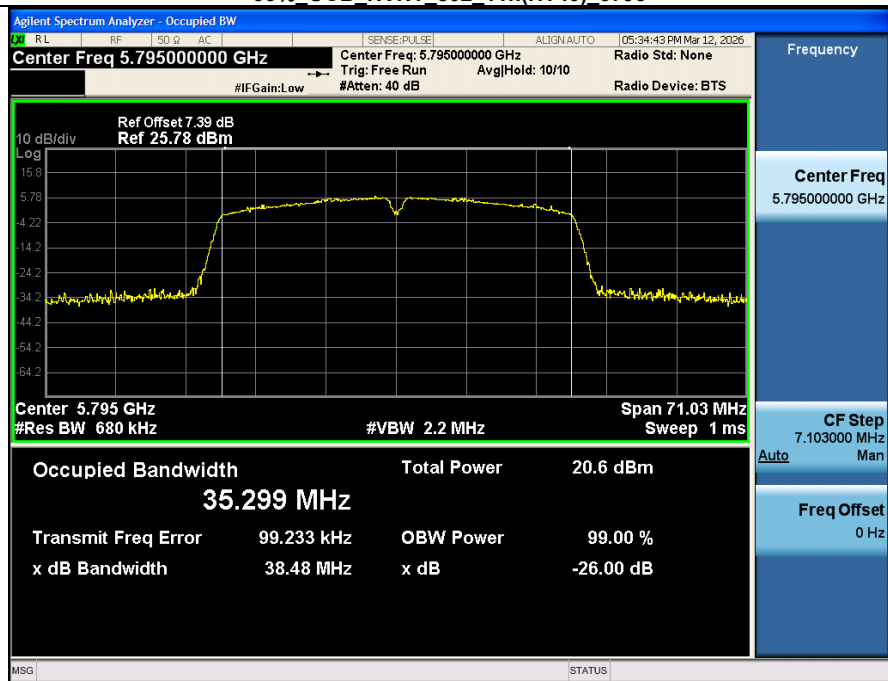
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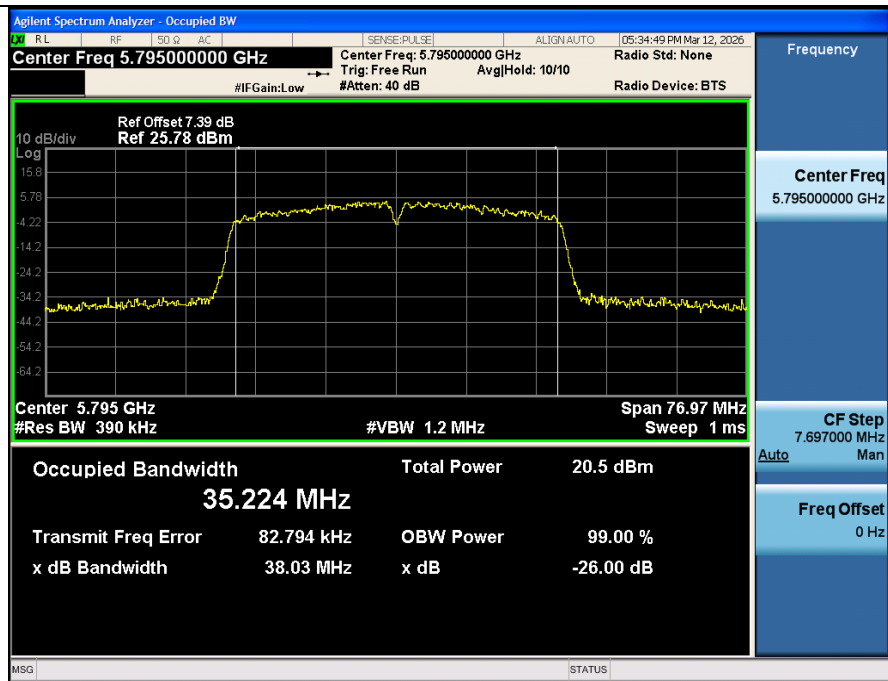
-26BW_NVNT_802_11n(HT40)_5755



99% OCB NVNT 802_11n(HT40)_5795

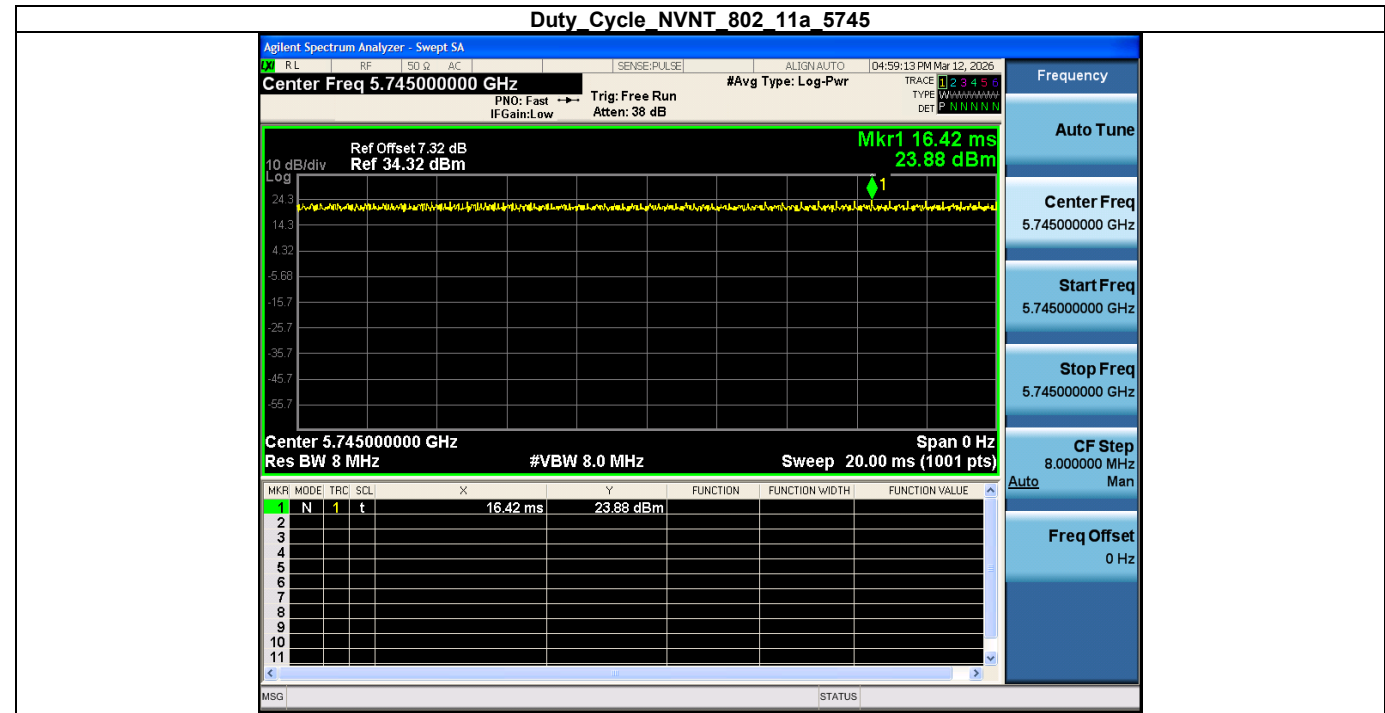


-26BW_NVNT_802_11n(HT40)_5795

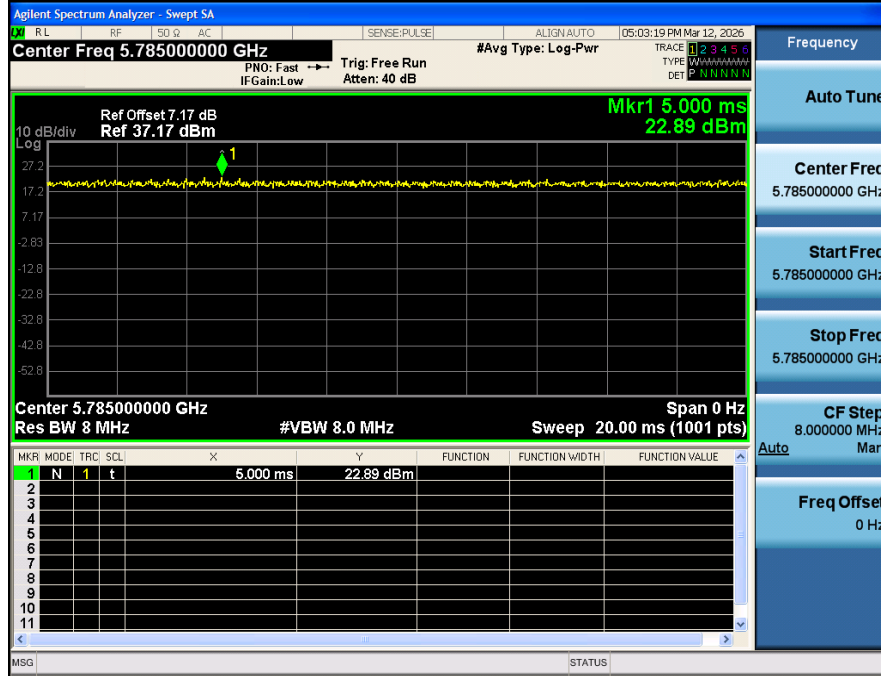


3. Duty Cycle

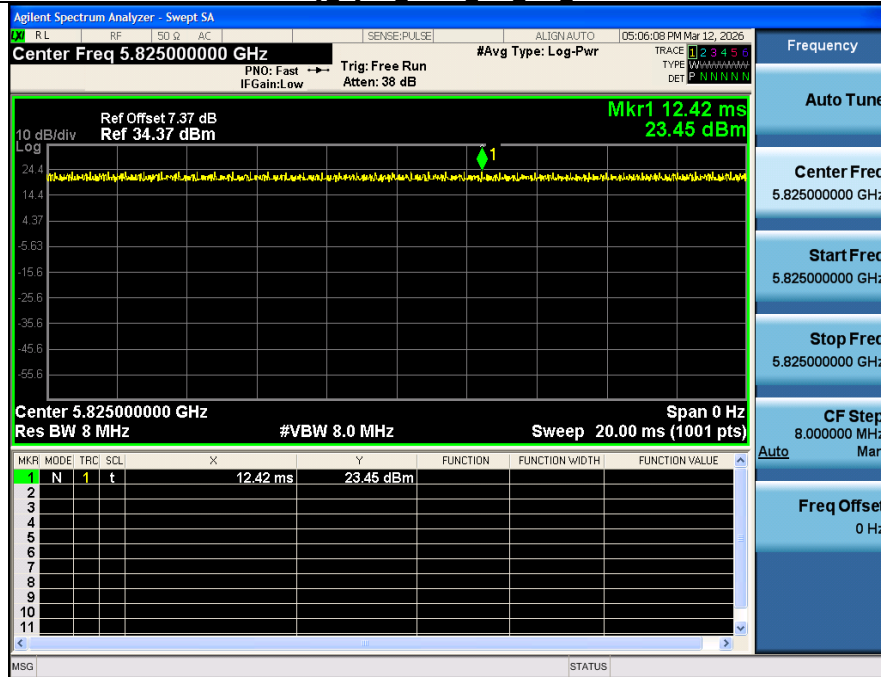
Condition	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor	Final setting For VBW(Hz)
NVNT	802.11a	5745.00	100	0.00	10
NVNT	802.11a	5785.00	100	0.00	10
NVNT	802.11a	5825.00	100	0.00	10
NVNT	802.11n(HT20)	5745.00	100	0.00	10
NVNT	802.11n(HT20)	5785.00	100	0.00	10
NVNT	802.11n(HT20)	5825.00	100	0.00	10
NVNT	802.11n(HT40)	5755.00	100	0.00	10
NVNT	802.11n(HT40)	5795.00	100	0.00	10



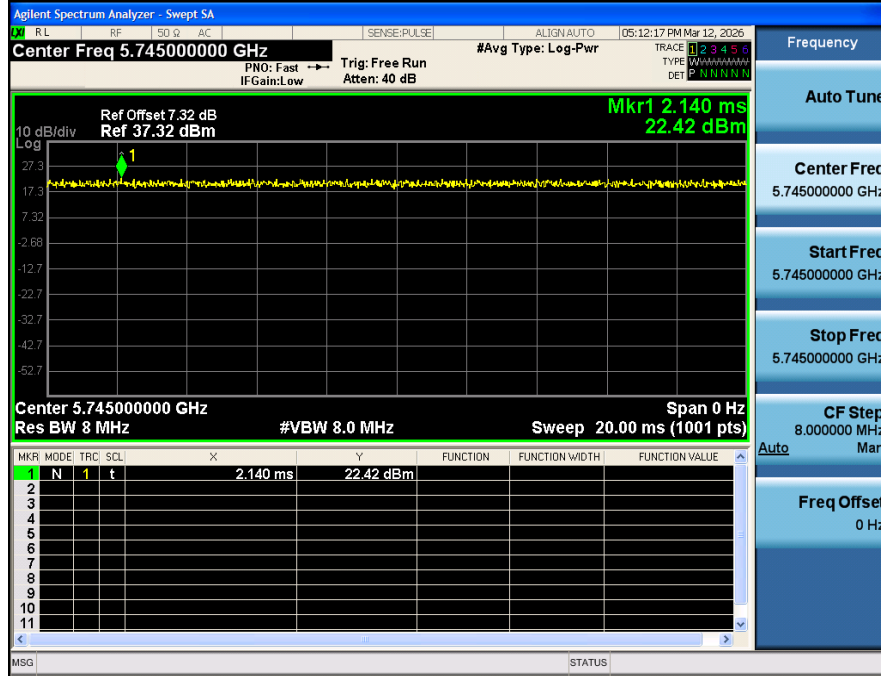
Duty Cycle NVNT 802 11a 5785



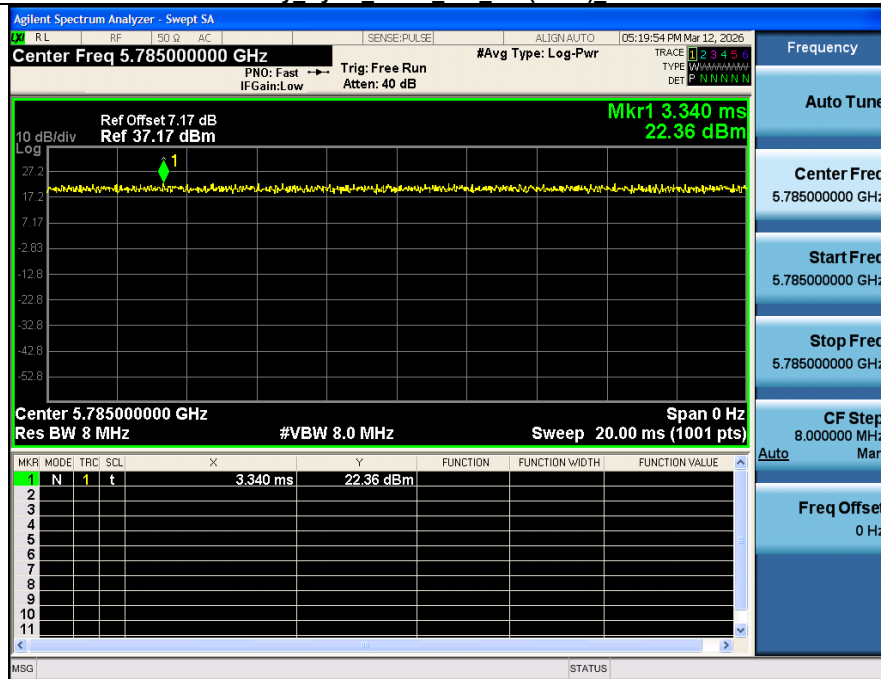
Duty Cycle NVNT 802 11a 5825



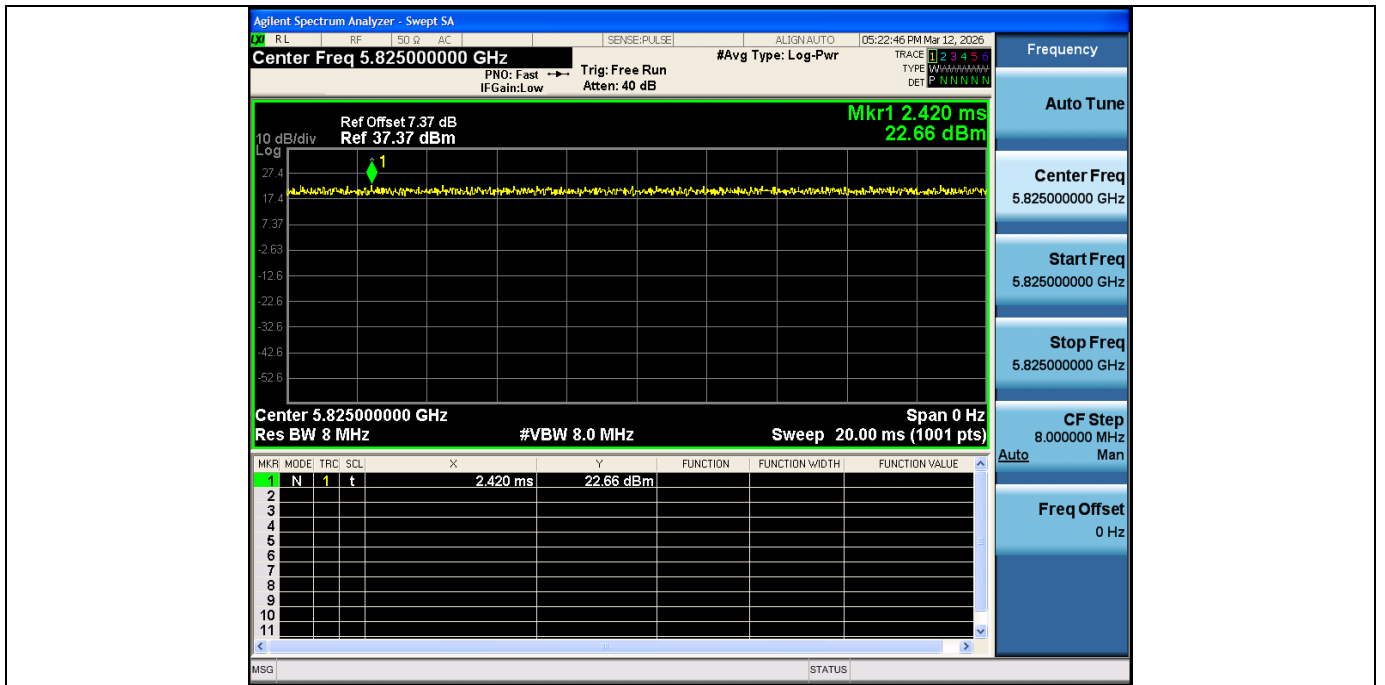
Duty Cycle NVNT 802 11n(HT20) 5745



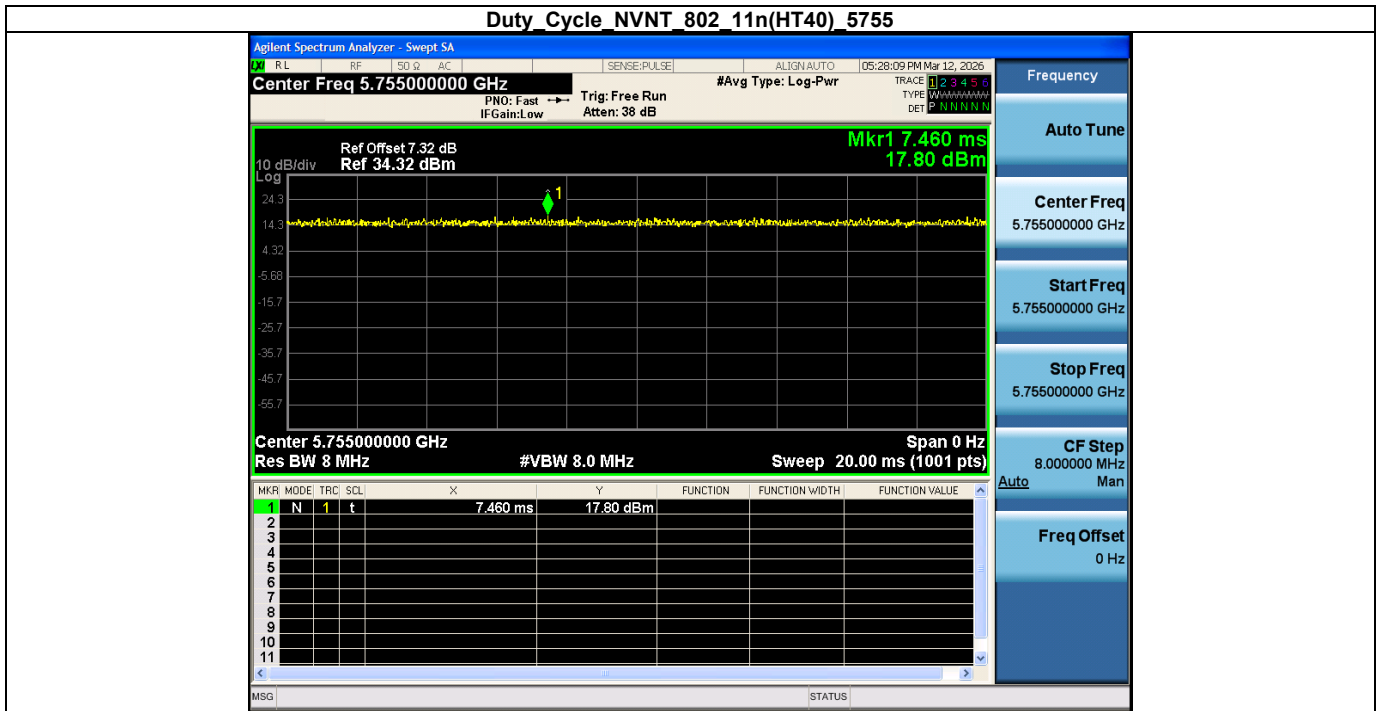
Duty Cycle NVNT 802_11n(HT20) 5785



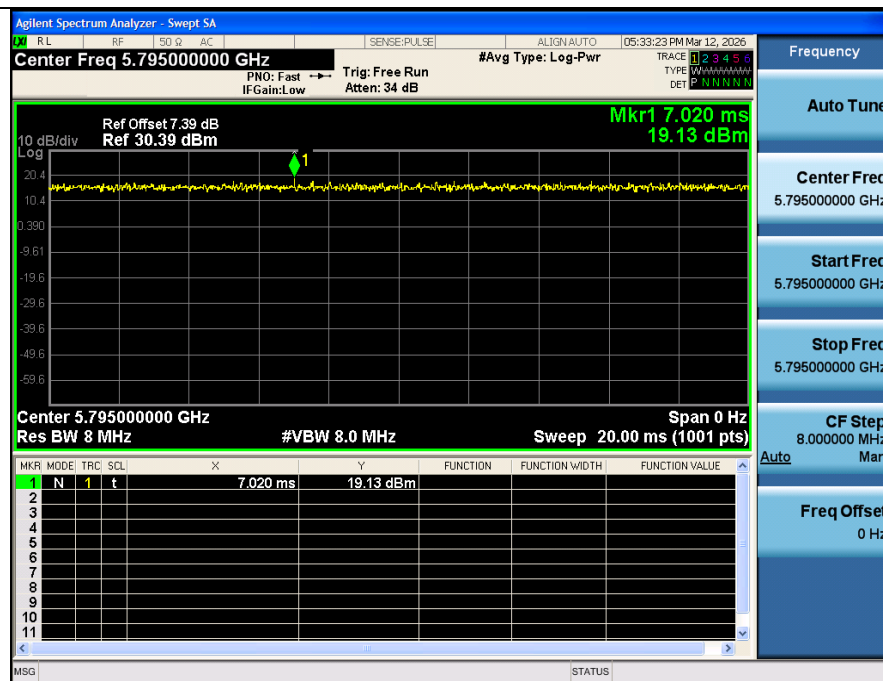
Duty Cycle NVNT 802_11n(HT20) 5825



Duty Cycle NVNT 802_11n(HT40) 5755



Duty Cycle NVNT 802_11n(HT40) 5795

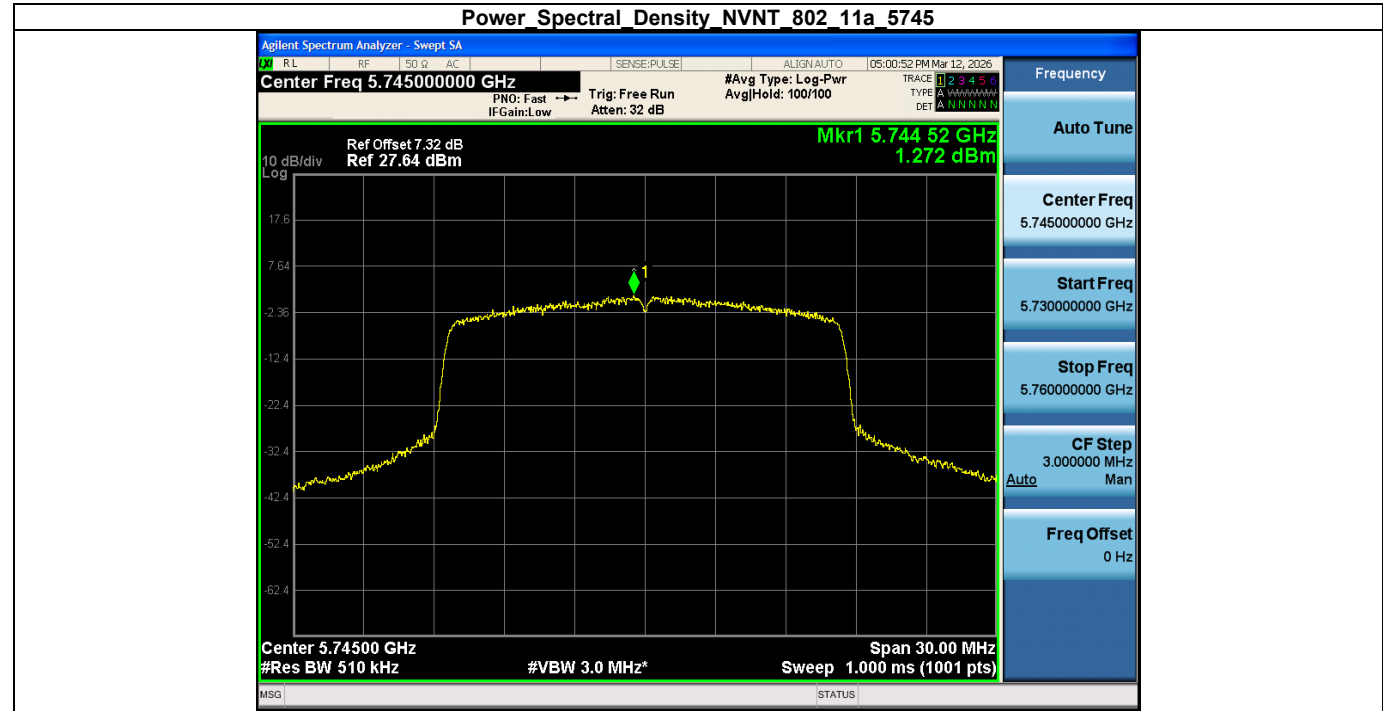


4. Maximum Conducted Output Power

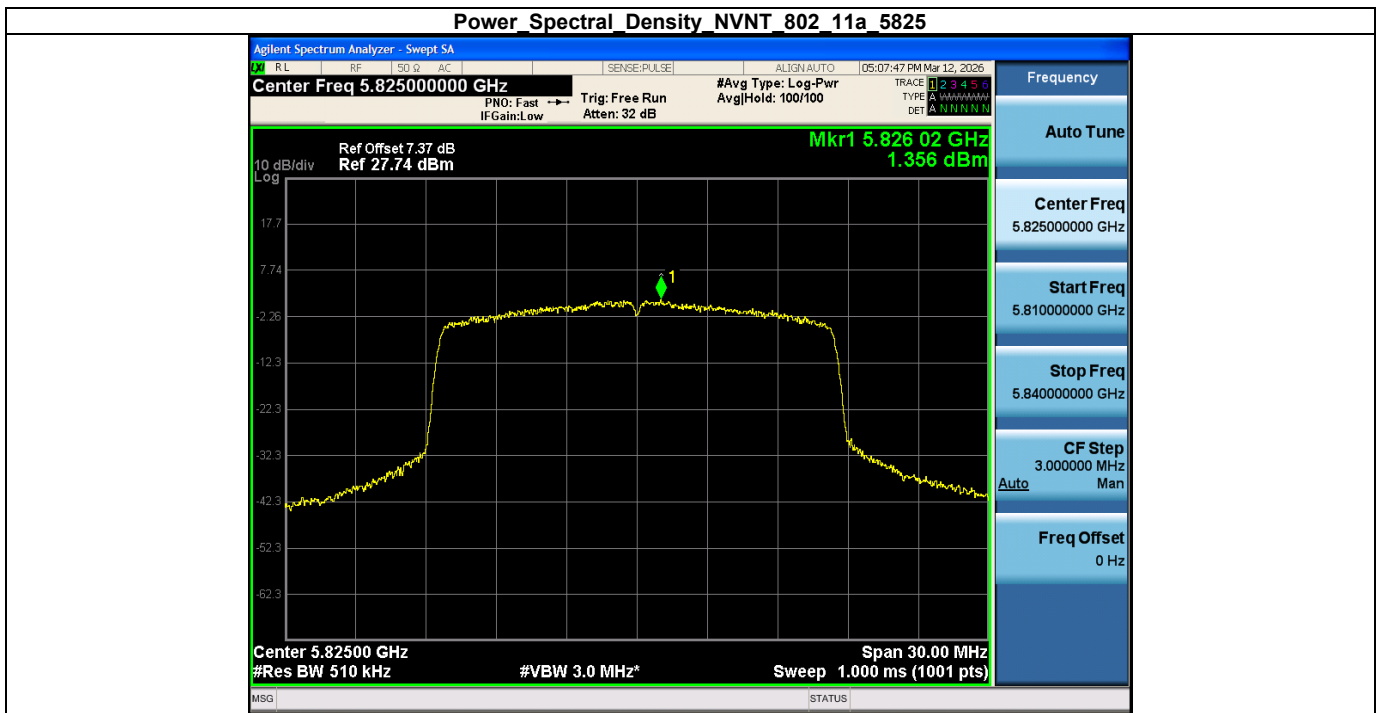
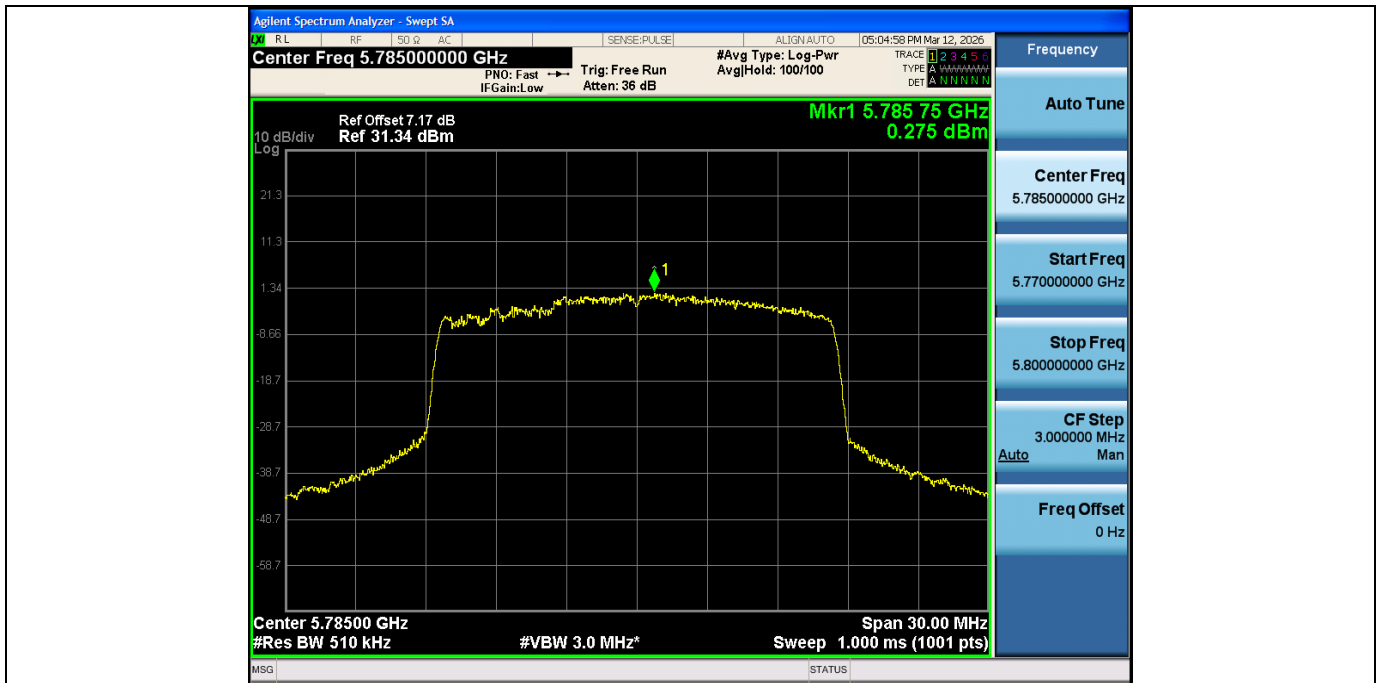
Condition	Modulation	Frequency (MHz)	AVG Power(dBm)	limit(dBm)	Result
NVNT	802.11a	5745.00	16.47	30	Pass
NVNT	802.11a	5785.00	15.62	30	Pass
NVNT	802.11a	5825.00	16.45	30	Pass
NVNT	802.11n(HT20)	5745.00	15.66	30	Pass
NVNT	802.11n(HT20)	5785.00	15.56	30	Pass
NVNT	802.11n(HT20)	5825.00	15.41	30	Pass
NVNT	802.11n(HT40)	5755.00	13.52	30	Pass
NVNT	802.11n(HT40)	5795.00	14.19	30	Pass

5. Power Spectral Density

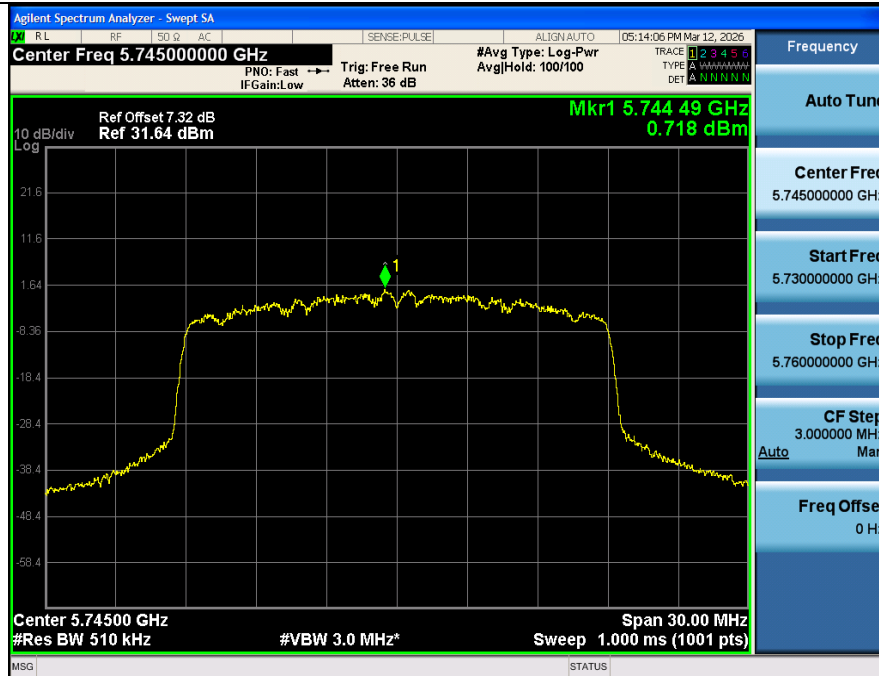
Condition	Modulation	Frequency (MHz)	PSD_SA (dBm/RBW)	Duty factor(dB)	RB factor(dB)	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
NVNT	802.11a	5745.00	1.27	0.00	-0.09	1.19	30	Pass
NVNT	802.11a	5785.00	0.28	0.00	-0.09	0.19	30	Pass
NVNT	802.11a	5825.00	1.36	0.00	-0.09	1.27	30	Pass
NVNT	802.11n(HT20)	5745.00	0.72	0.00	-0.09	0.63	30	Pass
NVNT	802.11n(HT20)	5785.00	0.78	0.00	-0.09	0.69	30	Pass
NVNT	802.11n(HT20)	5825.00	0.57	0.00	-0.09	0.48	30	Pass
NVNT	802.11n(HT40)	5755.00	-4.25	0.00	-0.09	-4.33	30	Pass
NVNT	802.11n(HT40)	5795.00	-3.70	0.00	-0.09	-3.79	30	Pass



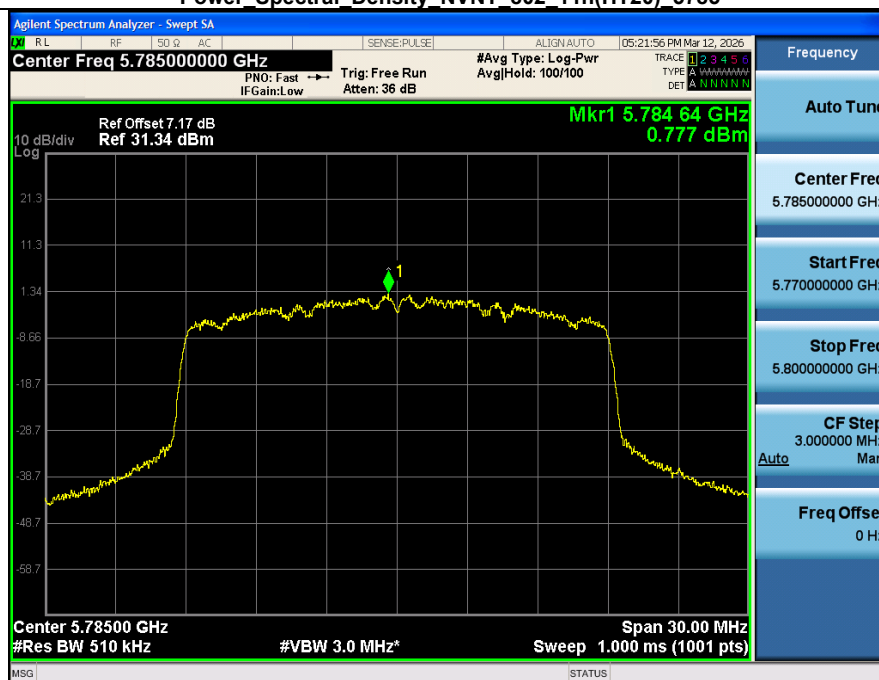
Power Spectral Density NVNT 802 11a 5785



Power_Spectral_Density_NVNT_802_11n(HT20)_5745



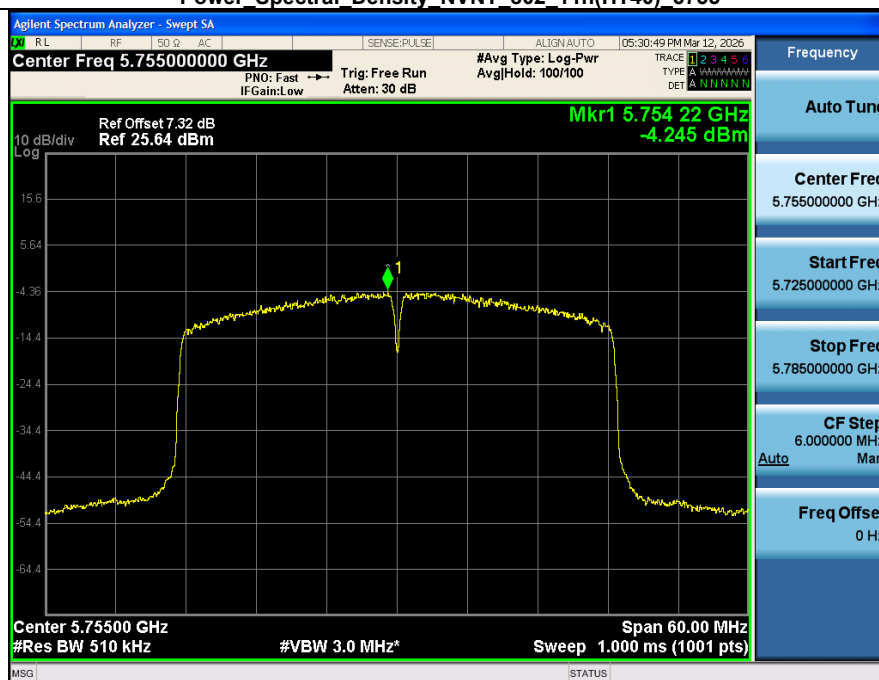
Power Spectral Density NVNT 802 11n(HT20) 5785



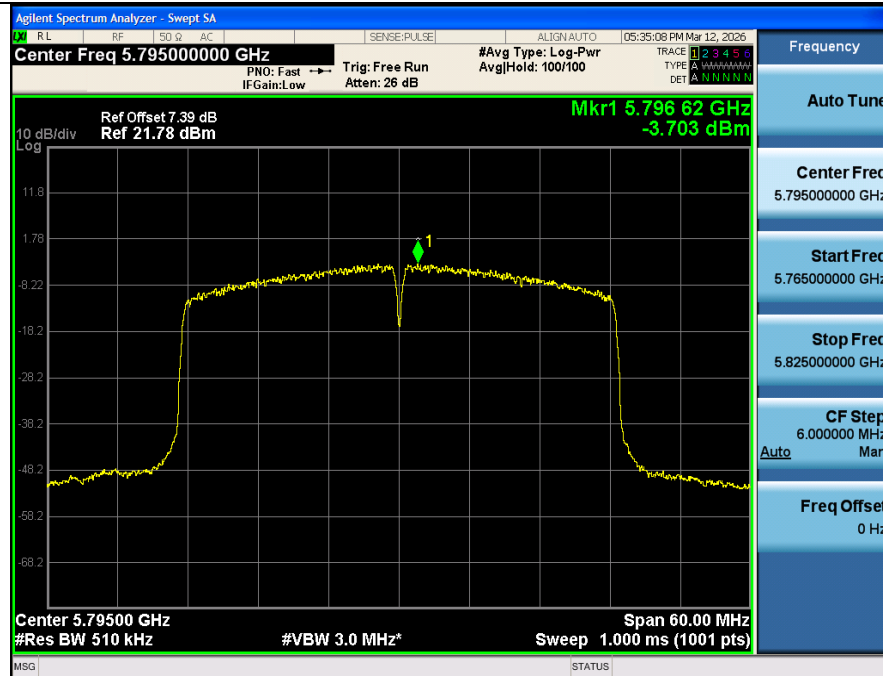
Power_Spectral_Density_NVNT_802_11n(HT20)_5825



Power Spectral Density NVNT 802 11n(HT40) 5755



Power_Spectral_Density_NVNT_802_11n(HT40)_5795



6. Frequency Stability

Condition	Modulation	Frequency (MHz)	Fc(MHz)	Fi(MHz)	Fh(MHz)	Limit(MHz)	Result
70degrees C&&12.00V	802.11a	5745.00	5745.030	5736.972	5753.088	5725~5850	Pass
60degrees C&&12.00V	802.11a	5745.00	5745.026	5737.316	5752.736	5725~5850	Pass
50degrees C&&12.00V	802.11a	5745.00	5745.008	5736.588	5753.428	5725~5850	Pass
40degrees C&&12.00V	802.11a	5745.00	5745.028	5736.852	5753.204	5725~5850	Pass
30degrees C&&12.00V	802.11a	5745.00	5745.030	5736.972	5753.088	5725~5850	Pass
20degrees C&&12.00V	802.11a	5745.00	5745.034	5737.072	5752.996	5725~5850	Pass
10degrees C&&12.00V	802.11a	5745.00	5745.044	5737.180	5752.908	5725~5850	Pass
0degrees C&&12.00V	802.11a	5745.00	5745.038	5737.256	5752.820	5725~5850	Pass
-10degrees C&&12.00V	802.11a	5745.00	5745.026	5737.316	5752.736	5725~5850	Pass
-20degrees C&&12.00V	802.11a	5745.00	5745.034	5737.396	5752.672	5725~5850	Pass
25degrees C&&36.00V	802.11a	5745.00	5745.052	5737.476	5752.628	5725~5850	Pass
25degrees C&&12.00V	802.11a	5745.00	5745.034	5737.560	5752.508	5725~5850	Pass
25degrees C&&9.00V	802.11a	5745.00	5745.044	5737.632	5752.456	5725~5850	Pass
70degrees C&&12.00V	802.11a	5785.00	5785.002	5777.200	5792.804	5725~5850	Pass
60degrees C&&12.00V	802.11a	5785.00	5785.008	5777.280	5792.736	5725~5850	Pass
50degrees C&&12.00V	802.11a	5785.00	5784.972	5776.540	5793.404	5725~5850	Pass
40degrees C&&12.00V	802.11a	5785.00	5784.996	5776.812	5793.180	5725~5850	Pass
30degrees C&&12.00V	802.11a	5785.00	5785.008	5776.952	5793.064	5725~5850	Pass
20degrees C&&12.00V	802.11a	5785.00	5785.010	5777.048	5792.972	5725~5850	Pass
10degrees C&&12.00V	802.11a	5785.00	5785.000	5777.116	5792.884	5725~5850	Pass
0degrees C&&12.00V	802.11a	5785.00	5785.002	5777.200	5792.804	5725~5850	Pass
-10degrees C&&12.00V	802.11a	5785.00	5785.008	5777.280	5792.736	5725~5850	Pass
-20degrees C&&12.00V	802.11a	5785.00	5784.990	5777.344	5792.636	5725~5850	Pass
25degrees C&&36.00V	802.11a	5785.00	5784.980	5777.428	5792.532	5725~5850	Pass
25degrees C&&12.00V	802.11a	5785.00	5784.992	5777.512	5792.472	5725~5850	Pass
25degrees C&&9.00V	802.11a	5785.00	5785.000	5777.592	5792.408	5725~5850	Pass
70degrees C&&12.00V	802.11a	5825.00	5824.952	5817.096	5832.808	5725~5850	Pass
60degrees C&&12.00V	802.11a	5825.00	5824.954	5817.172	5832.736	5725~5850	Pass
50degrees C&&12.00V	802.11a	5825.00	5824.828	5816.192	5833.464	5725~5850	Pass
40degrees C&&12.00V	802.11a	5825.00	5824.938	5816.684	5833.192	5725~5850	Pass
30degrees C&&12.00V	802.11a	5825.00	5824.964	5816.852	5833.076	5725~5850	Pass
20degrees C&&12.00V	802.11a	5825.00	5824.956	5816.944	5832.968	5725~5850	Pass
10degrees C&&12.00V	802.11a	5825.00	5824.952	5817.028	5832.876	5725~5850	Pass
0degrees C&&12.00V	802.11a	5825.00	5824.952	5817.096	5832.808	5725~5850	Pass
-10degrees C&&12.00V	802.11a	5825.00	5824.954	5817.172	5832.736	5725~5850	Pass
-20degrees C&&12.00V	802.11a	5825.00	5824.964	5817.248	5832.680	5725~5850	Pass
25degrees C&&36.00V	802.11a	5825.00	5824.942	5817.324	5832.560	5725~5850	Pass
25degrees C&&12.00V	802.11a	5825.00	5824.932	5817.388	5832.476	5725~5850	Pass
25degrees C&&9.00V	802.11a	5825.00	5824.940	5817.460	5832.420	5725~5850	Pass
70degrees C&&12.00V	802.11n(HT20)	5745.00	5745.036	5736.548	5753.524	5725~5850	Pass
60degrees C&&12.00V	802.11n(HT20)	5745.00	5745.032	5736.652	5753.412	5725~5850	Pass
50degrees C&&12.00V	802.11n(HT20)	5745.00	5745.032	5736.064	5754.000	5725~5850	Pass
40degrees C&&12.00V	802.11n(HT20)	5745.00	5745.036	5736.312	5753.760	5725~5850	Pass
30degrees C&&12.00V	802.11n(HT20)	5745.00	5745.032	5736.428	5753.636	5725~5850	Pass
20degrees C&&12.00V	802.11n(HT20)	5745.00	5745.036	5736.548	5753.524	5725~5850	Pass
10degrees C&&12.00V	802.11n(HT20)	5745.00	5745.032	5736.652	5753.412	5725~5850	Pass
0degrees C&&12.00V	802.11n(HT20)	5745.00	5745.034	5736.744	5753.324	5725~5850	Pass
-10degrees C&&12.00V	802.11n(HT20)	5745.00	5745.028	5736.852	5753.204	5725~5850	Pass
-20degrees C&&12.00V	802.11n(HT20)	5745.00	5745.038	5736.948	5753.128	5725~5850	Pass
25degrees C&&36.00V	802.11n(HT20)	5745.00	5745.026	5737.036	5753.016	5725~5850	Pass
25degrees C&&12.00V	802.11n(HT20)	5745.00	5745.044	5737.124	5752.964	5725~5850	Pass
25degrees C&&9.00V	802.11n(HT20)	5745.00	5745.044	5737.184	5752.904	5725~5850	Pass
70degrees C&&12.00V	802.11n(HT20)	5785.00	5785.004	5776.520	5793.488	5725~5850	Pass
60degrees C&&12.00V	802.11n(HT20)	5785.00	5785.016	5776.052	5793.980	5725~5850	Pass
50degrees C&&12.00V	802.11n(HT20)	5785.00	5785.014	5776.928	5793.100	5725~5850	Pass
40degrees C&&12.00V	802.11n(HT20)	5785.00	5785.010	5776.284	5793.736	5725~5850	Pass
30degrees C&&12.00V	802.11n(HT20)	5785.00	5785.006	5776.404	5793.608	5725~5850	Pass
20degrees C&&12.00V	802.11n(HT20)	5785.00	5785.004	5776.520	5793.488	5725~5850	Pass
10degrees C&&12.00V	802.11n(HT20)	5785.00	5785.012	5776.628	5793.396	5725~5850	Pass
0degrees C&&12.00V	802.11n(HT20)	5785.00	5785.014	5776.728	5793.300	5725~5850	Pass

-10degrees C&&12.00V	802.11n(HT20)	5785.00	5785.016	5776.828	5793.204	5725~5850	Pass
-20degrees C&&12.00V	802.11n(HT20)	5785.00	5785.014	5776.928	5793.100	5725~5850	Pass
25degrees C&&36.00V	802.11n(HT20)	5785.00	5785.030	5777.016	5793.044	5725~5850	Pass
25degrees C&&12.00V	802.11n(HT20)	5785.00	5785.008	5777.092	5792.924	5725~5850	Pass
25degrees C&&9.00V	802.11n(HT20)	5785.00	5785.024	5777.172	5792.876	5725~5850	Pass
70degrees C&&12.00V	802.11n(HT20)	5825.00	5825.018	5816.732	5833.304	5725~5850	Pass
60degrees C&&12.00V	802.11n(HT20)	5825.00	5825.016	5816.836	5833.196	5725~5850	Pass
50degrees C&&12.00V	802.11n(HT20)	5825.00	5825.020	5816.056	5833.984	5725~5850	Pass
40degrees C&&12.00V	802.11n(HT20)	5825.00	5825.016	5816.288	5833.744	5725~5850	Pass
30degrees C&&12.00V	802.11n(HT20)	5825.00	5825.000	5816.400	5833.600	5725~5850	Pass
20degrees C&&12.00V	802.11n(HT20)	5825.00	5825.010	5816.524	5833.496	5725~5850	Pass
10degrees C&&12.00V	802.11n(HT20)	5825.00	5825.004	5816.628	5833.380	5725~5850	Pass
0degrees C&&12.00V	802.11n(HT20)	5825.00	5825.018	5816.732	5833.304	5725~5850	Pass
-10degrees C&&12.00V	802.11n(HT20)	5825.00	5825.016	5816.836	5833.196	5725~5850	Pass
-20degrees C&&12.00V	802.11n(HT20)	5825.00	5825.014	5816.932	5833.096	5725~5850	Pass
25degrees C&&36.00V	802.11n(HT20)	5825.00	5825.014	5817.016	5833.012	5725~5850	Pass
25degrees C&&12.00V	802.11n(HT20)	5825.00	5825.020	5817.084	5832.956	5725~5850	Pass
25degrees C&&9.00V	802.11n(HT20)	5825.00	5825.014	5817.152	5832.876	5725~5850	Pass
70degrees C&&12.00V	802.11n(HT40)	5755.00	5755.204	5738.928	5771.480	5725~5850	Pass
60degrees C&&12.00V	802.11n(HT40)	5755.00	5755.264	5739.168	5771.360	5725~5850	Pass
50degrees C&&12.00V	802.11n(HT40)	5755.00	5755.104	5737.136	5773.072	5725~5850	Pass
40degrees C&&12.00V	802.11n(HT40)	5755.00	5755.084	5737.424	5772.744	5725~5850	Pass
30degrees C&&12.00V	802.11n(HT40)	5755.00	5755.100	5737.696	5772.504	5725~5850	Pass
20degrees C&&12.00V	802.11n(HT40)	5755.00	5755.168	5738.032	5772.304	5725~5850	Pass
10degrees C&&12.00V	802.11n(HT40)	5755.00	5755.208	5738.256	5772.160	5725~5850	Pass
0degrees C&&12.00V	802.11n(HT40)	5755.00	5755.224	5738.456	5771.992	5725~5850	Pass
-10degrees C&&12.00V	802.11n(HT40)	5755.00	5755.180	5738.680	5771.680	5725~5850	Pass
-20degrees C&&12.00V	802.11n(HT40)	5755.00	5755.204	5738.928	5771.480	5725~5850	Pass
25degrees C&&36.00V	802.11n(HT40)	5755.00	5755.264	5739.168	5771.360	5725~5850	Pass
25degrees C&&12.00V	802.11n(HT40)	5755.00	5755.288	5739.416	5771.160	5725~5850	Pass
25degrees C&&9.00V	802.11n(HT40)	5755.00	5755.292	5739.616	5770.968	5725~5850	Pass
70degrees C&&12.00V	802.11n(HT40)	5795.00	5795.068	5777.136	5813.000	5725~5850	Pass
60degrees C&&12.00V	802.11n(HT40)	5795.00	5795.196	5778.864	5811.528	5725~5850	Pass
50degrees C&&12.00V	802.11n(HT40)	5795.00	5795.188	5779.088	5811.288	5725~5850	Pass
40degrees C&&12.00V	802.11n(HT40)	5795.00	5795.052	5777.408	5812.696	5725~5850	Pass
30degrees C&&12.00V	802.11n(HT40)	5795.00	5795.068	5777.656	5812.480	5725~5850	Pass
20degrees C&&12.00V	802.11n(HT40)	5795.00	5795.120	5777.944	5812.296	5725~5850	Pass
10degrees C&&12.00V	802.11n(HT40)	5795.00	5795.112	5778.192	5812.032	5725~5850	Pass
0degrees C&&12.00V	802.11n(HT40)	5795.00	5795.136	5778.408	5811.864	5725~5850	Pass
-10degrees C&&12.00V	802.11n(HT40)	5795.00	5795.144	5778.632	5811.656	5725~5850	Pass
-20degrees C&&12.00V	802.11n(HT40)	5795.00	5795.196	5778.864	5811.528	5725~5850	Pass
25degrees C&&36.00V	802.11n(HT40)	5795.00	5795.188	5779.088	5811.288	5725~5850	Pass
25degrees C&&12.00V	802.11n(HT40)	5795.00	5795.208	5779.288	5811.128	5725~5850	Pass
25degrees C&&9.00V	802.11n(HT40)	5795.00	5795.244	5779.488	5811.000	5725~5850	Pass