

Appendix Test Data

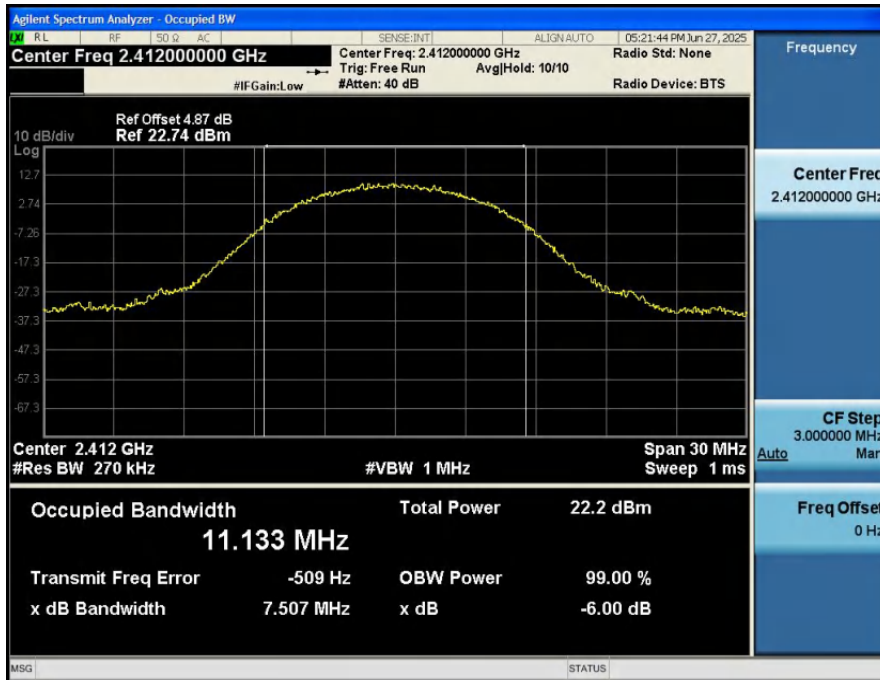
Report No.:	1813C50286612503	Test Sample No.:	1-2-2
Start Test Date:	2025-06-23	Finish Test Date:	2025-07-25
Test Engineer:	<i>Liangfei Yang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	22.5°C	Relative Humidity:	45%
Pressure:	101kPa		

Appendix A: -6dB Bandwidth

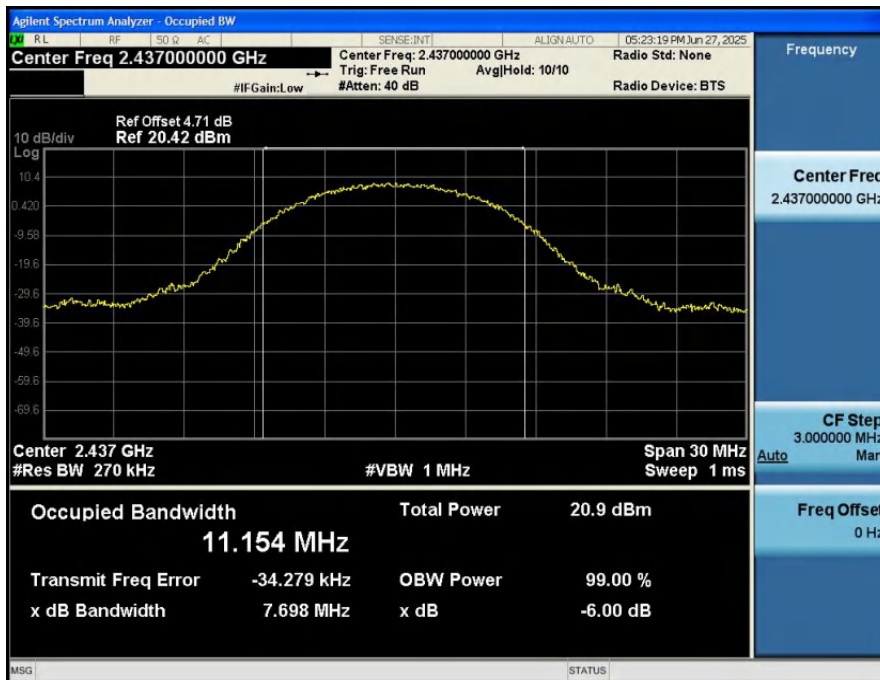
Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	7.51	500	Pass
NVNT	ANT1	802.11b	2437.00	7.70	500	Pass
NVNT	ANT1	802.11b	2462.00	7.54	500	Pass
NVNT	ANT1	802.11g	2412.00	15.73	500	Pass
NVNT	ANT1	802.11g	2437.00	15.63	500	Pass
NVNT	ANT1	802.11g	2462.00	15.43	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	14.72	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	15.17	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	12.86	500	Pass



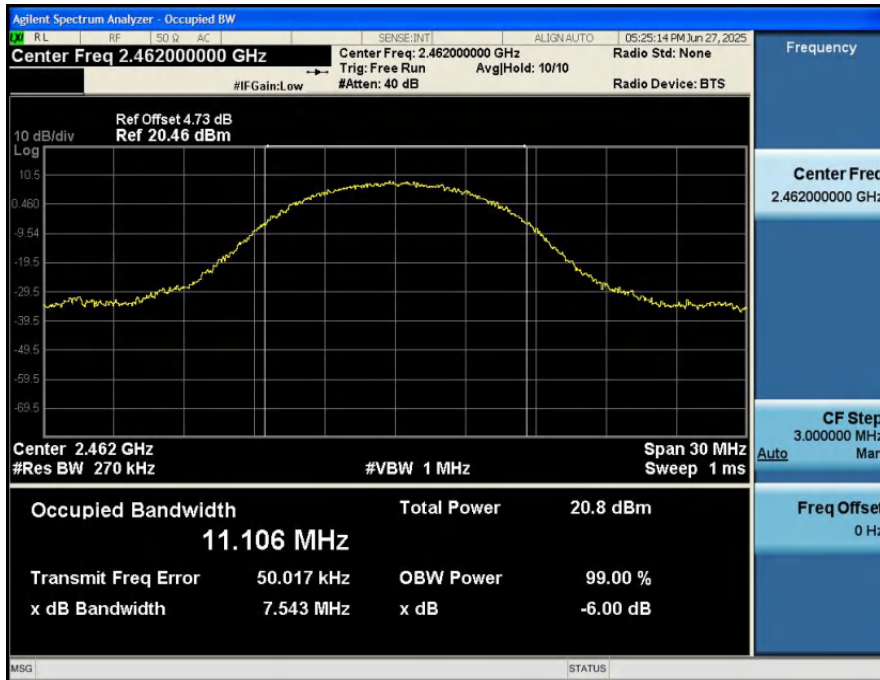
-6dB_Bandwidth_NVNT_ANT1_802_11b_2412



-6dB_Bandwidth_NVNT_ANT1_802_11b_2437



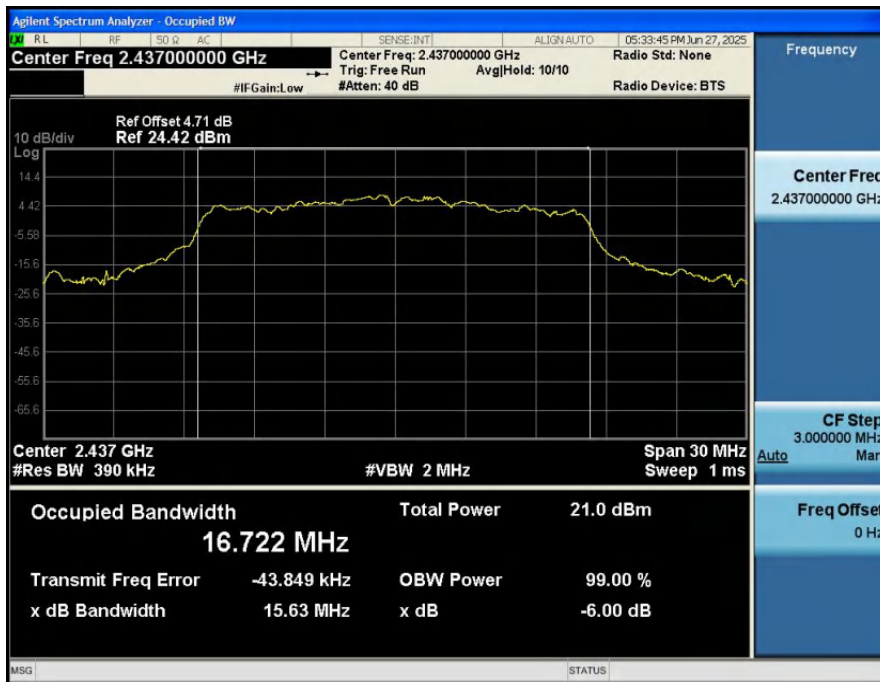
-6dB_Bandwidth_NVNT_ANT1_802_11b_2462



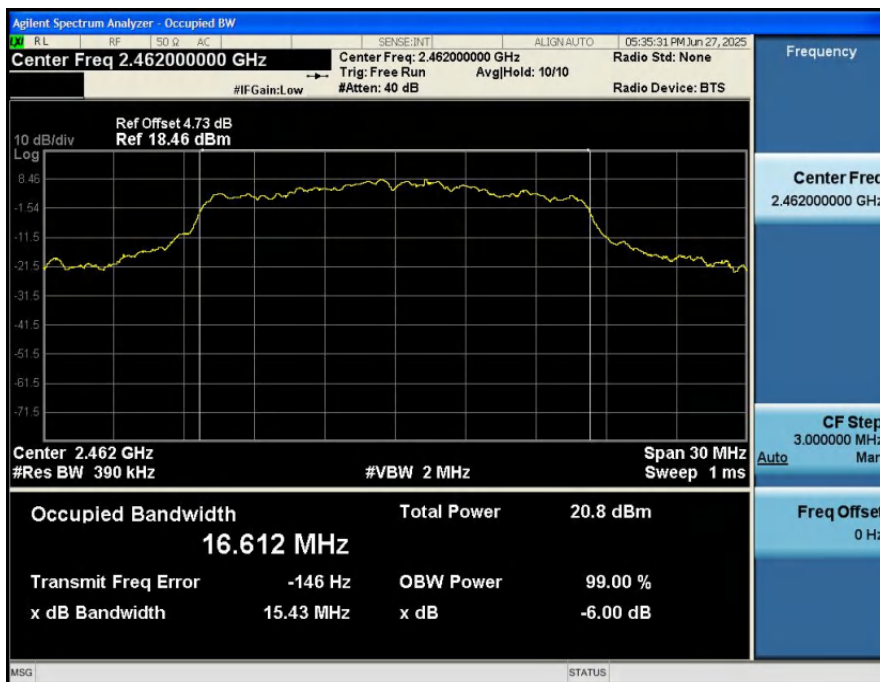
-6dB_Bandwidth_NVNT_ANT1_802_11g_2412



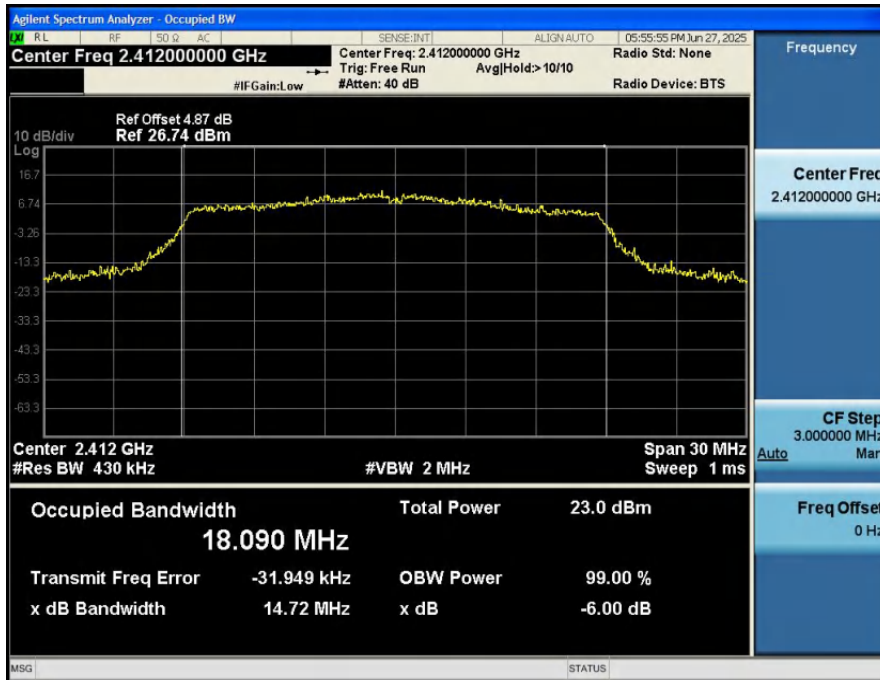
-6dB_Bandwidth_NVNT_ANT1_802_11g_2437



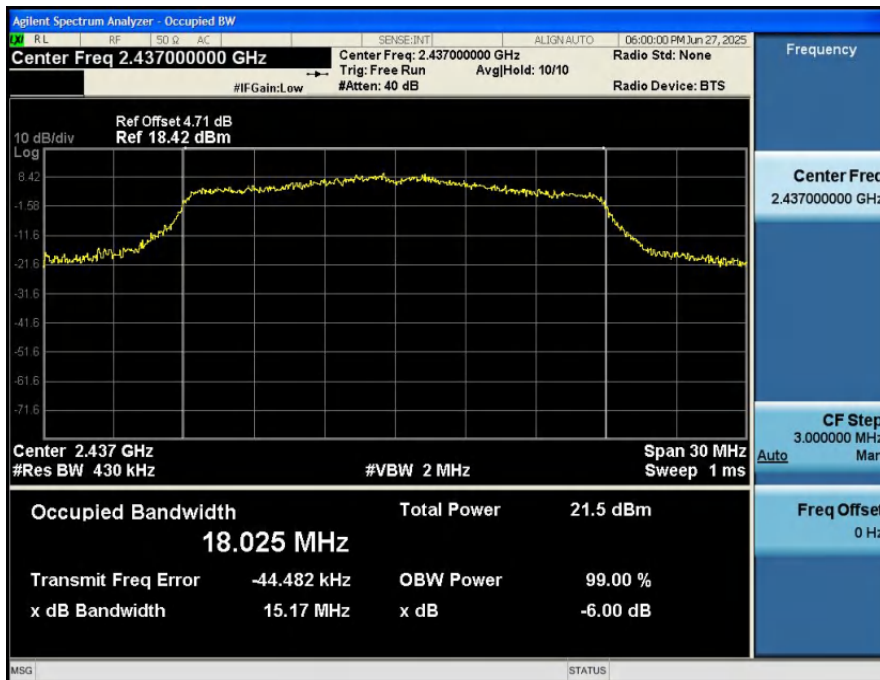
-6dB_Bandwidth_NVNT_ANT1_802_11g_2462

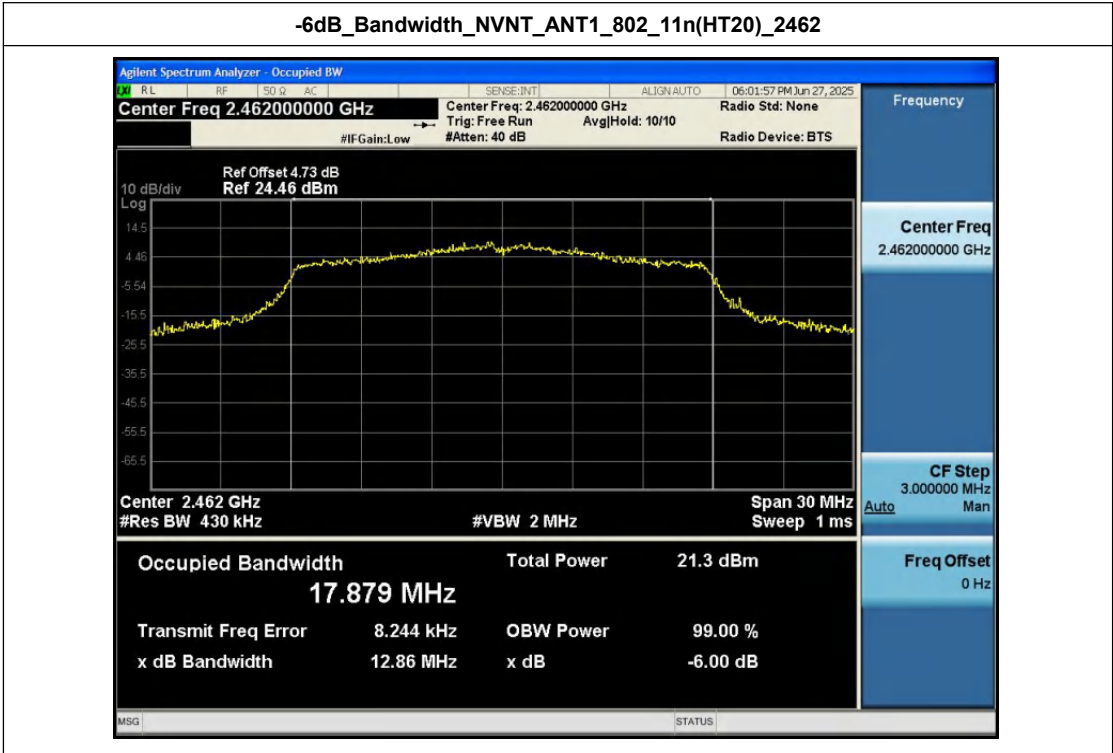


-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



-6dB_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437





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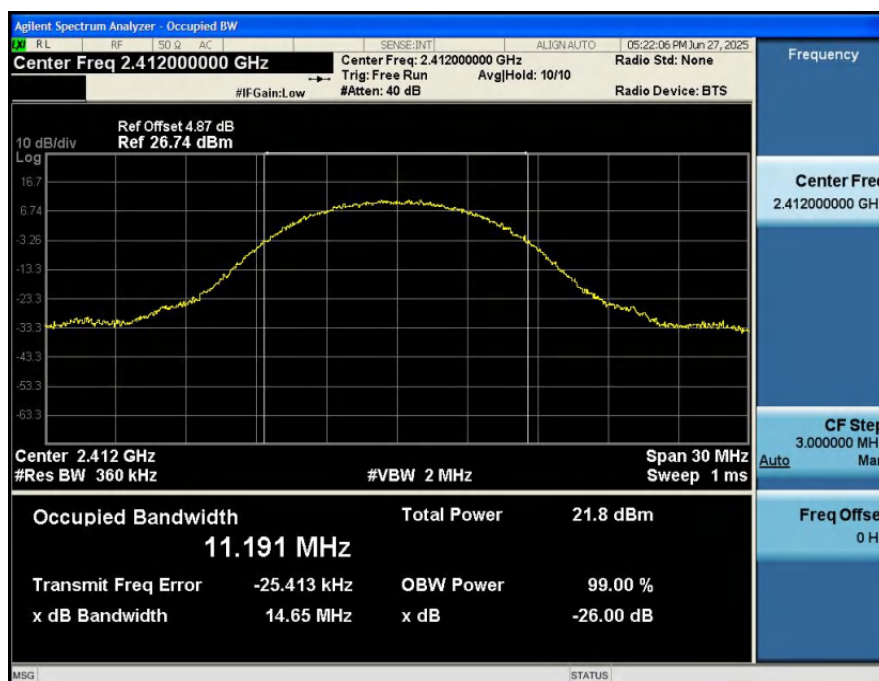
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park,
Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Tel: (86) 0755-26066440 Email: service@anbotek.com

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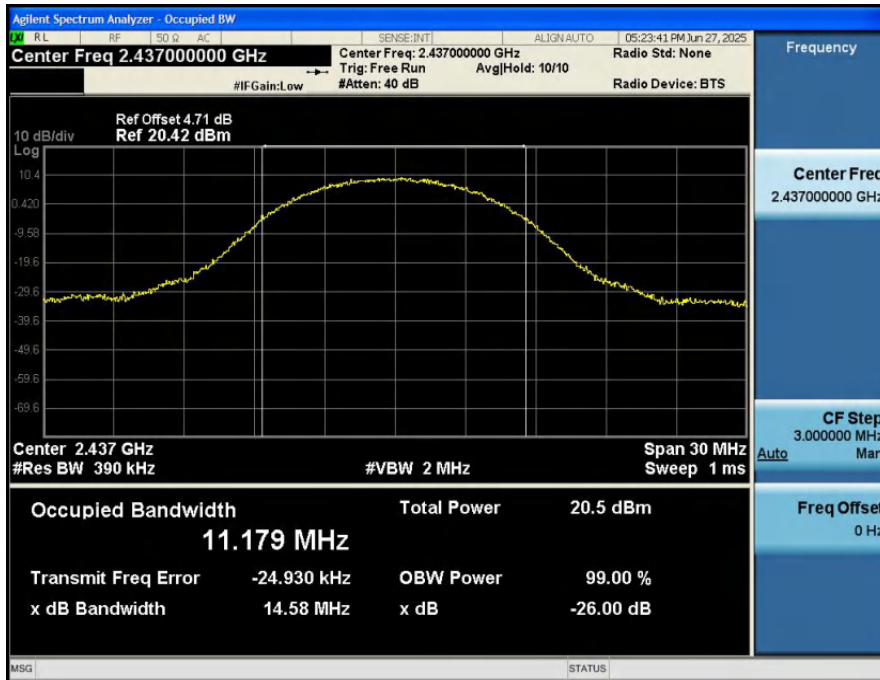
Appendix B: 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%BW(MHz)
NVNT	ANT1	802.11b	2412.00	11.191
NVNT	ANT1	802.11b	2437.00	11.179
NVNT	ANT1	802.11b	2462.00	11.152
NVNT	ANT1	802.11g	2412.00	16.847
NVNT	ANT1	802.11g	2437.00	16.941
NVNT	ANT1	802.11g	2462.00	16.741
NVNT	ANT1	802.11n(HT20)	2412.00	18.213
NVNT	ANT1	802.11n(HT20)	2437.00	18.273
NVNT	ANT1	802.11n(HT20)	2462.00	18.117

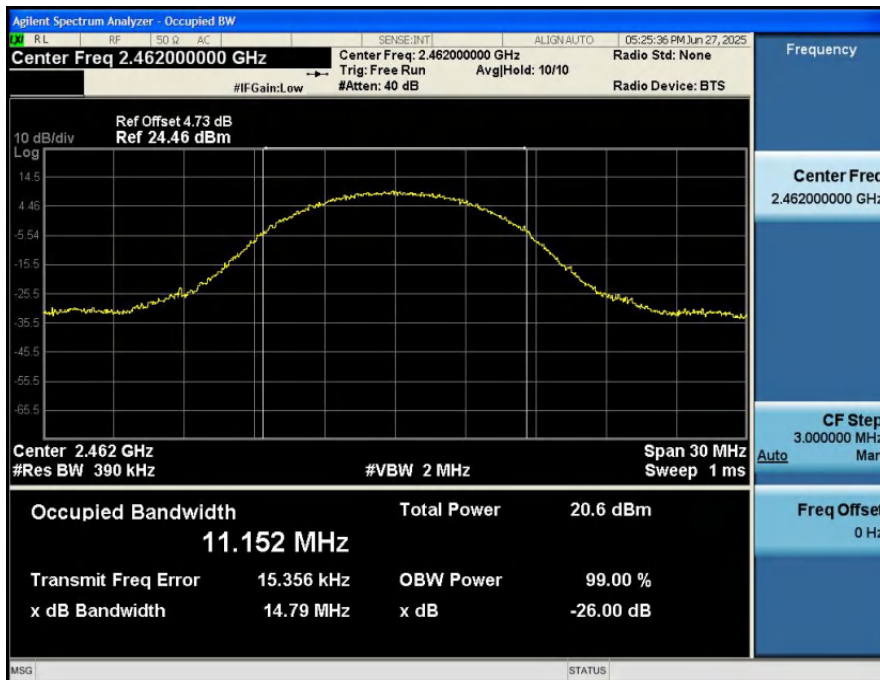
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2412



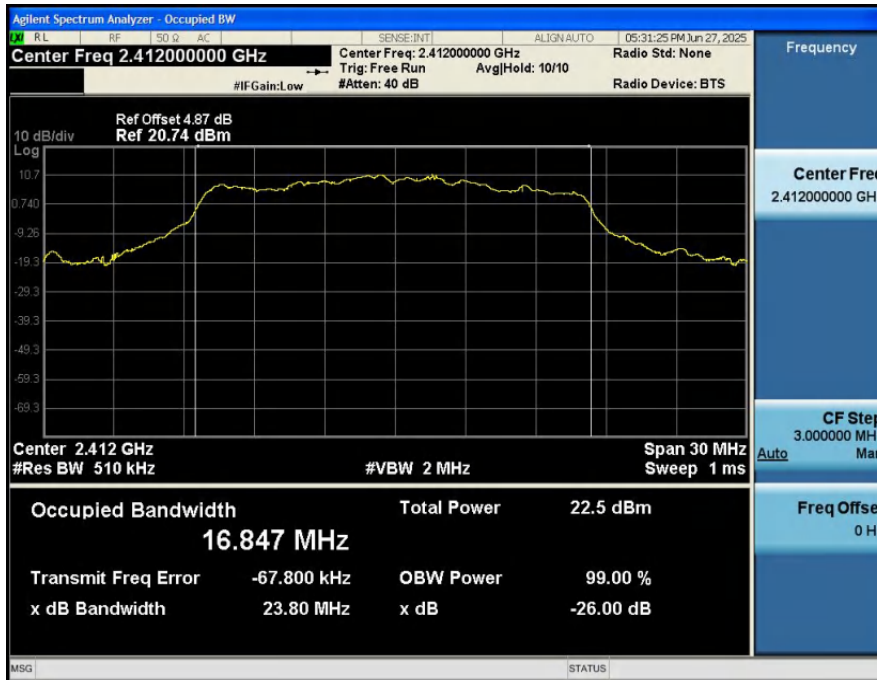
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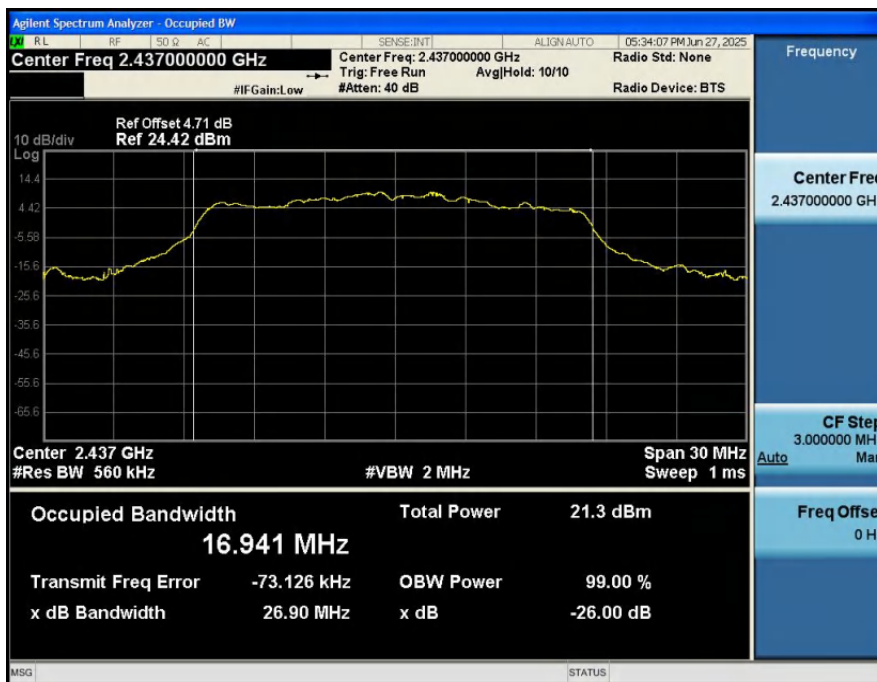
99%_Occupied_Bandwidth_NVNT_ANT1_802_11b_2462



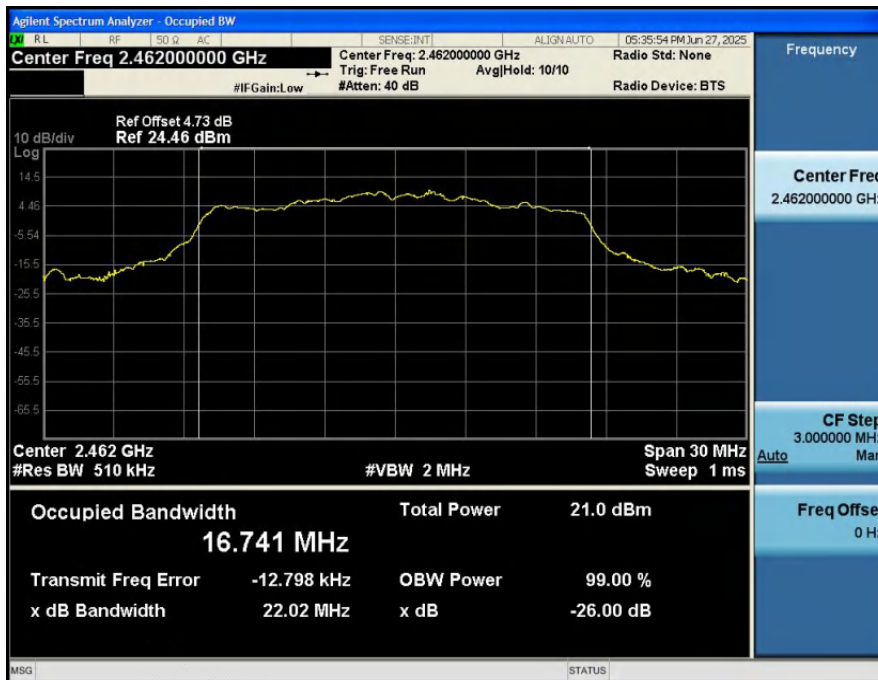
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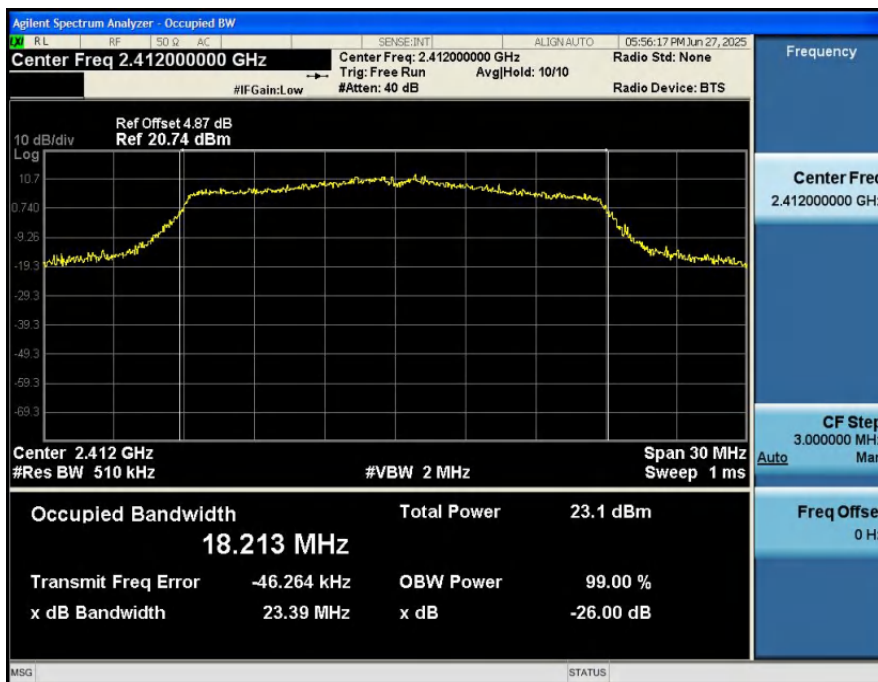
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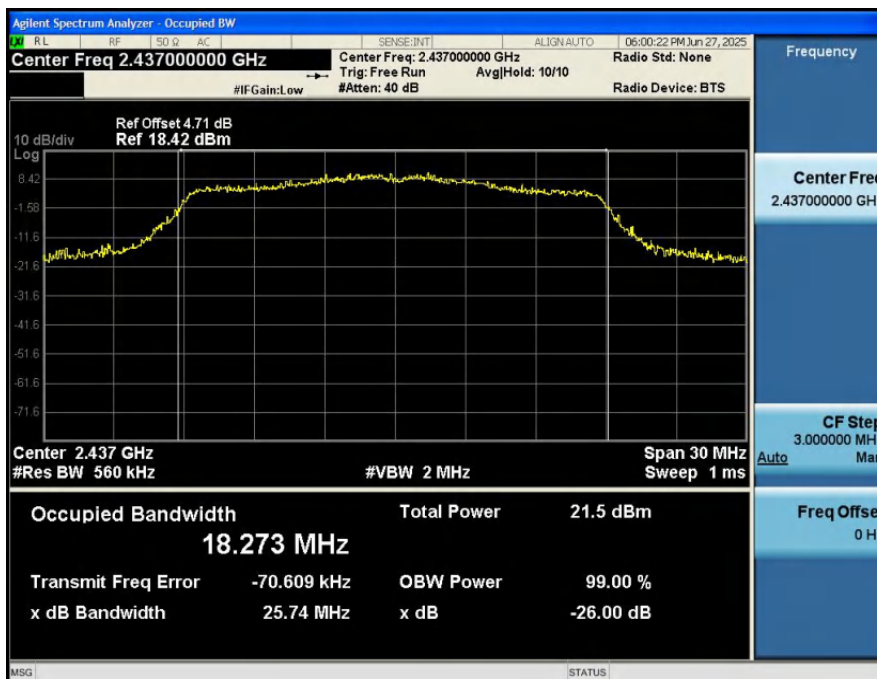
99%_Occupied_Bandwidth_NVNT_ANT1_802_11g_2462



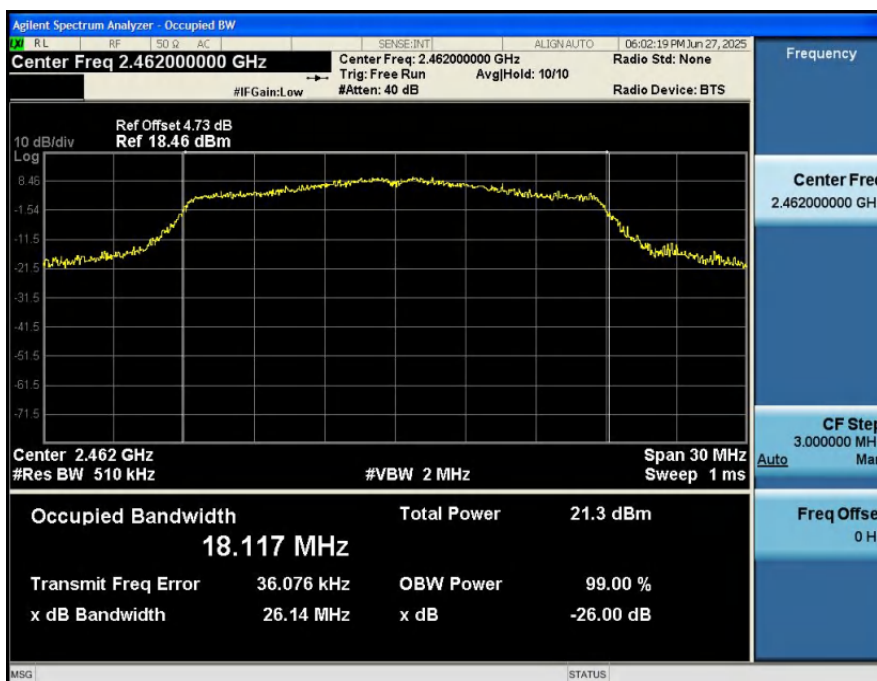
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2412



99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2437



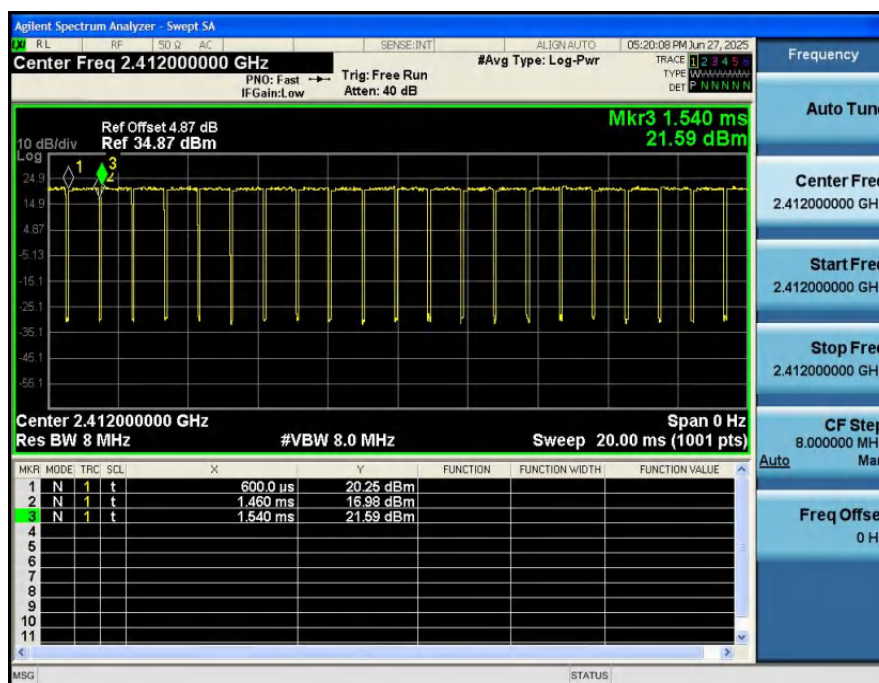
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT20)_2462



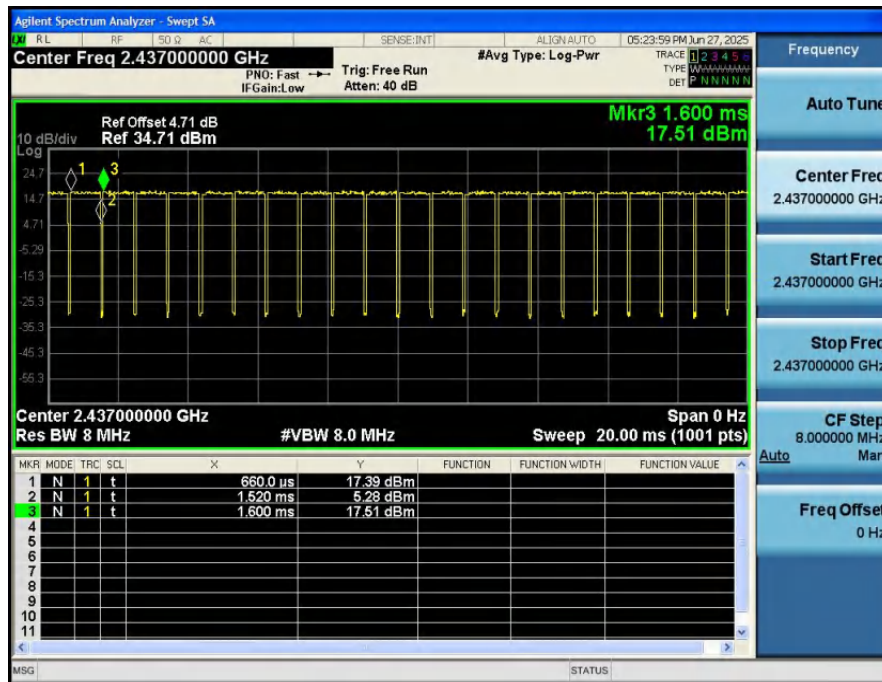
Appendix C: Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	93.62	0.29
NVNT	ANT1	802.11b	2437.00	93.62	0.29
NVNT	ANT1	802.11b	2462.00	93.62	0.29
NVNT	ANT1	802.11g	2412.00	71.43	1.46
NVNT	ANT1	802.11g	2437.00	71.43	1.46
NVNT	ANT1	802.11g	2462.00	71.43	1.46
NVNT	ANT1	802.11n(HT20)	2412.00	69.23	1.60
NVNT	ANT1	802.11n(HT20)	2437.00	64.29	1.92
NVNT	ANT1	802.11n(HT20)	2462.00	69.23	1.60

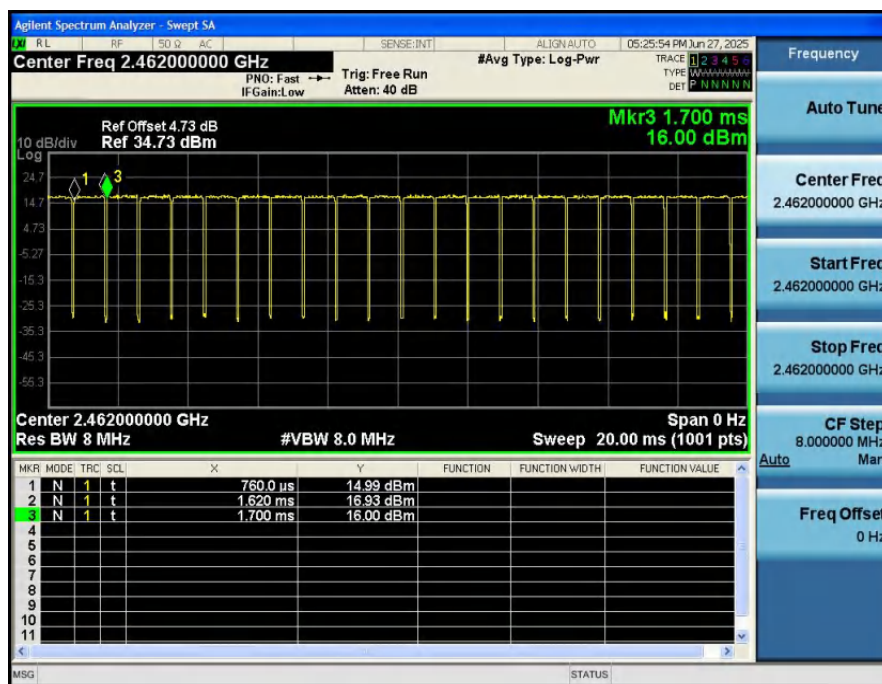
Duty_Cycle_NVNT_ANT1_802_11b_2412



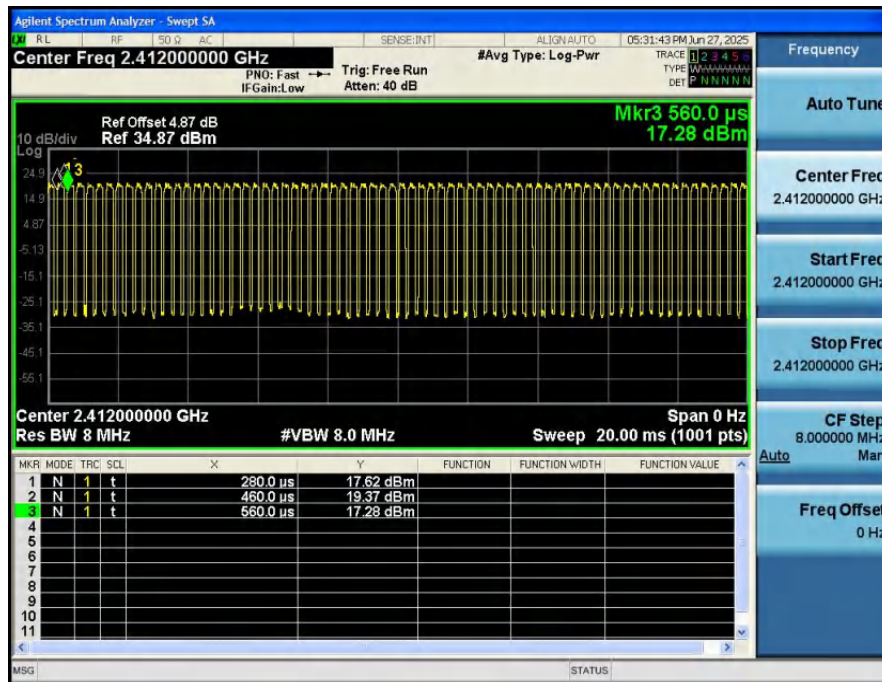
Duty_Cycle_NVNT_ANT1_802_11b_2437



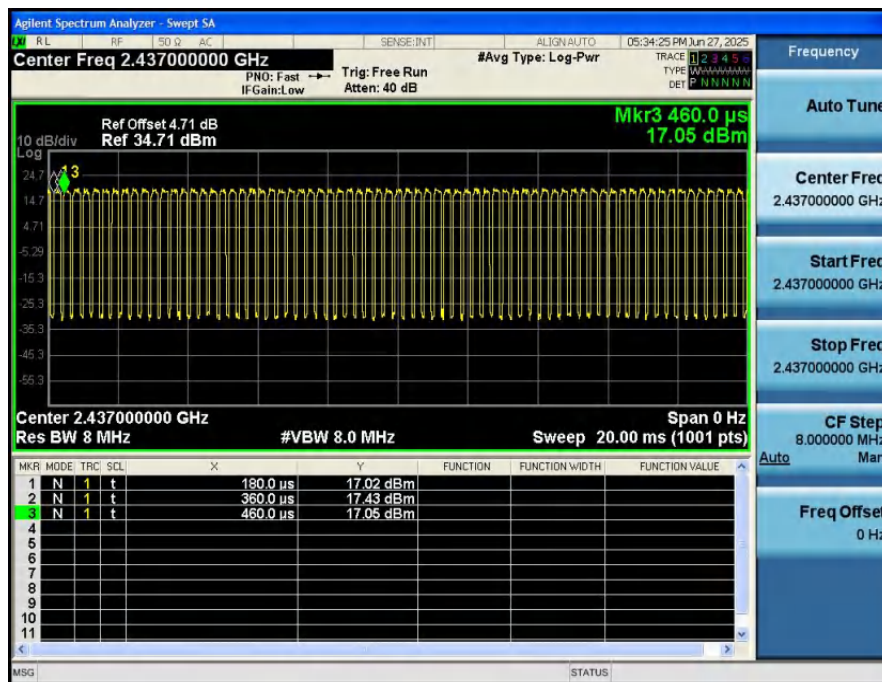
Duty_Cycle_NVNT_ANT1_802_11b_2462



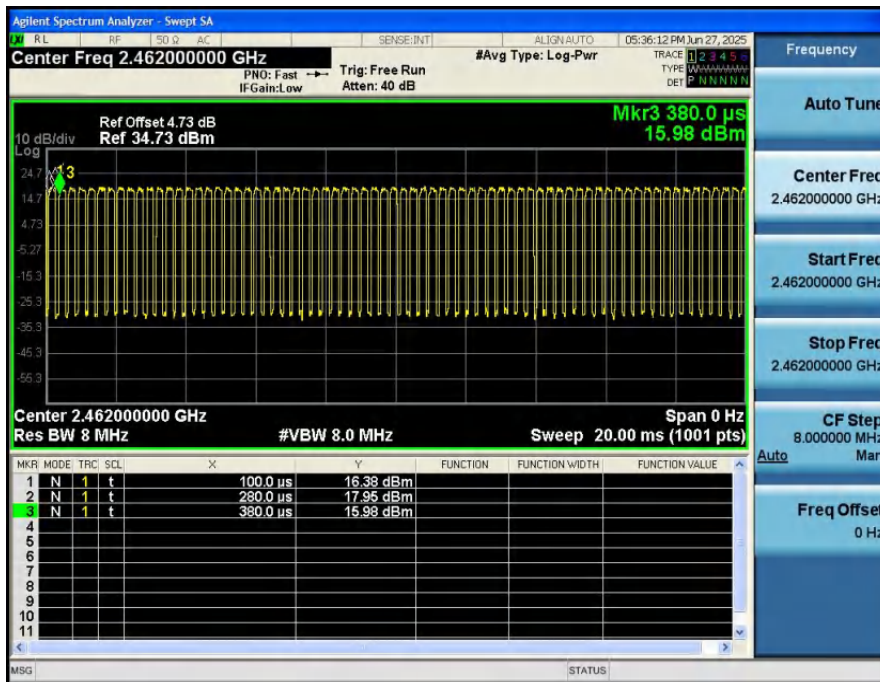
Duty_Cycle_NVNT_ANT1_802_11g_2412



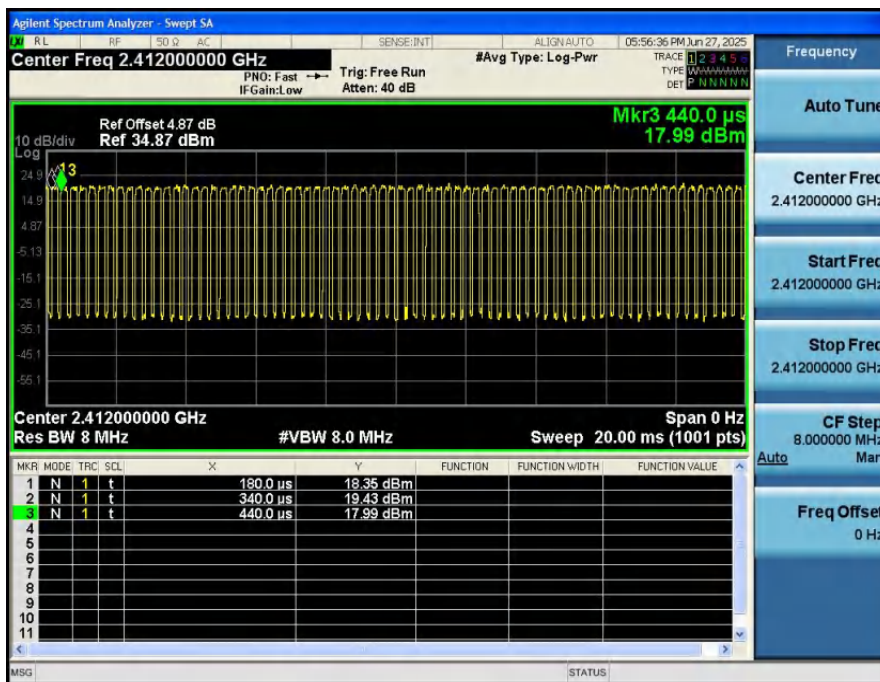
Duty_Cycle_NVNT_ANT1_802_11g_2437



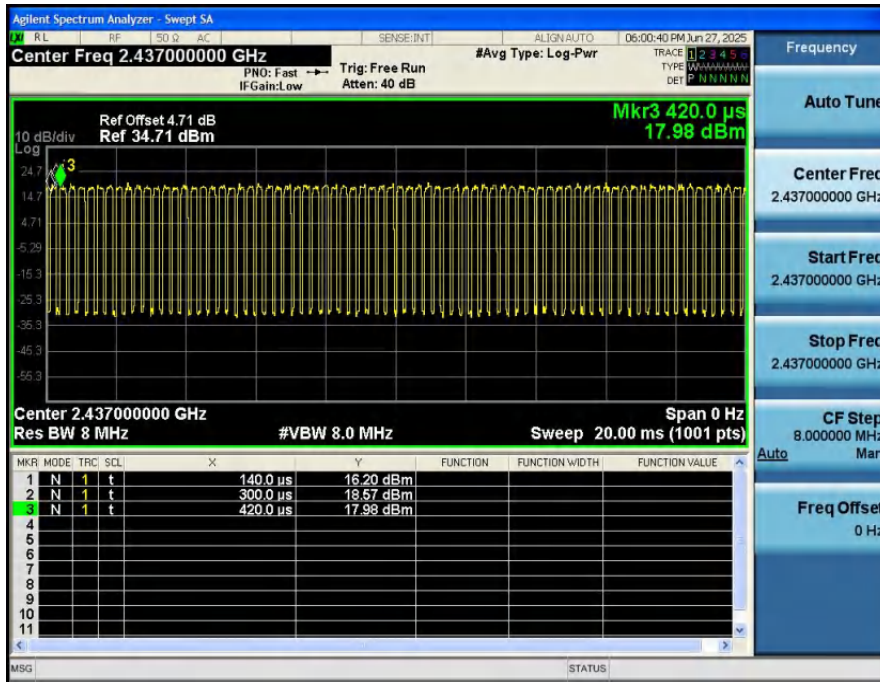
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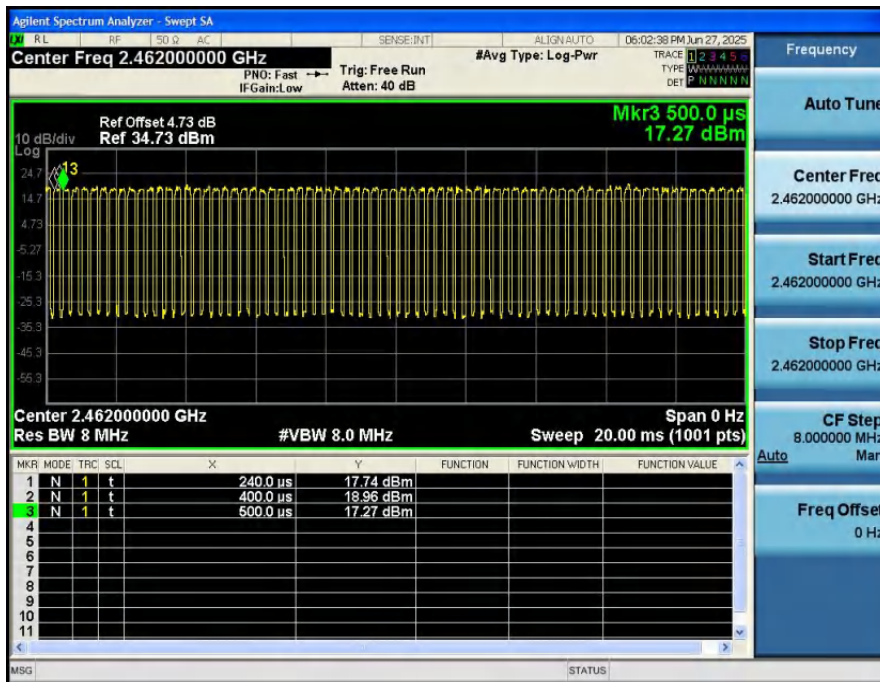
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2437



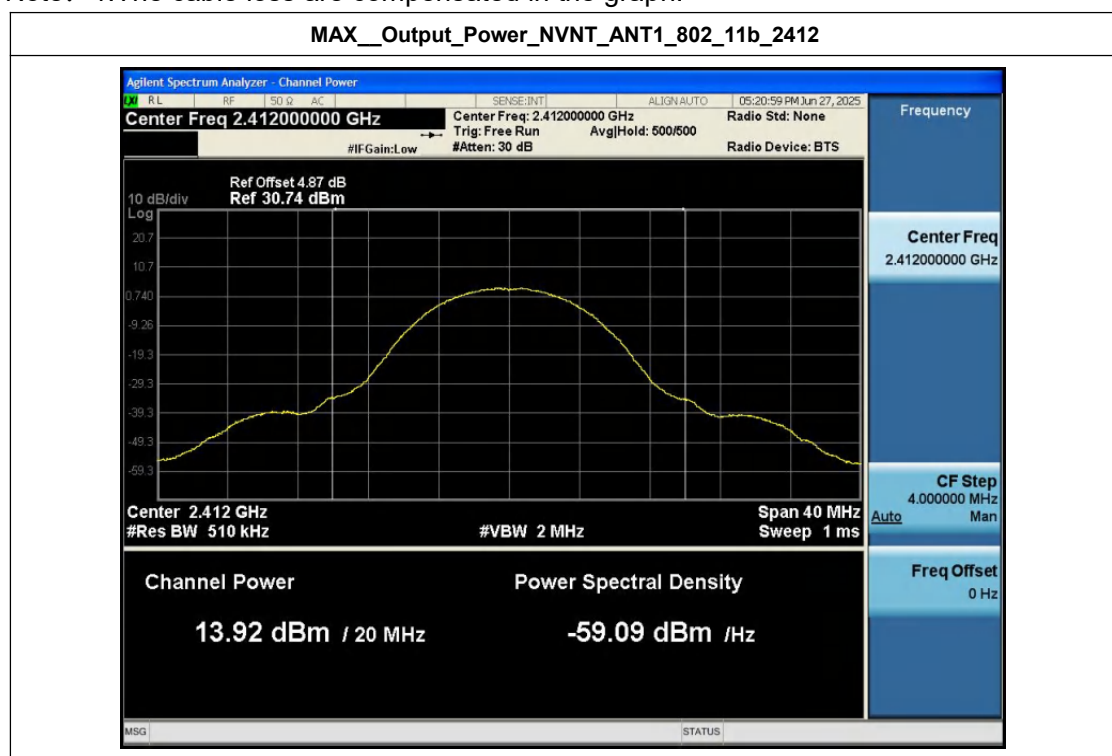
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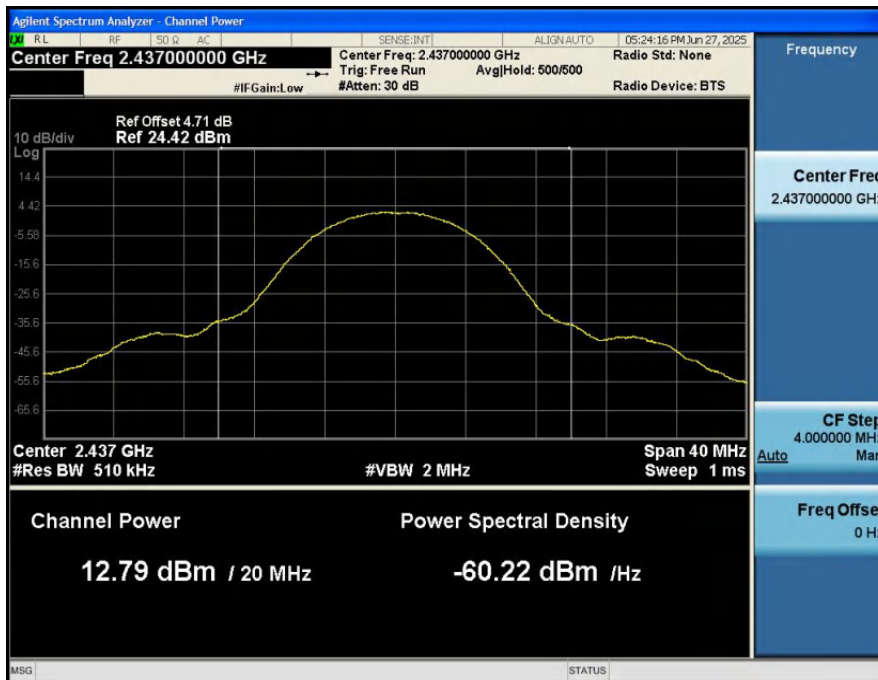
Appendix D: MAX. Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power (dBm)	Duty factor (dB)	Total Power (dBm)	Limit (dBm)	Result
NVNT	ANT1	802.11b	2412.00	RMS	13.92	0.29	14.21	30	Pass
NVNT	ANT1	802.11b	2437.00	RMS	12.79	0.29	13.08	30	Pass
NVNT	ANT1	802.11b	2462.00	RMS	12.90	0.29	13.19	30	Pass
NVNT	ANT1	802.11g	2412.00	RMS	13.61	1.46	15.07	30	Pass
NVNT	ANT1	802.11g	2437.00	RMS	12.27	1.46	13.73	30	Pass
NVNT	ANT1	802.11g	2462.00	RMS	12.13	1.46	13.59	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	RMS	13.42	1.60	15.02	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	RMS	11.87	1.92	13.79	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	RMS	11.71	1.60	13.31	30	Pass

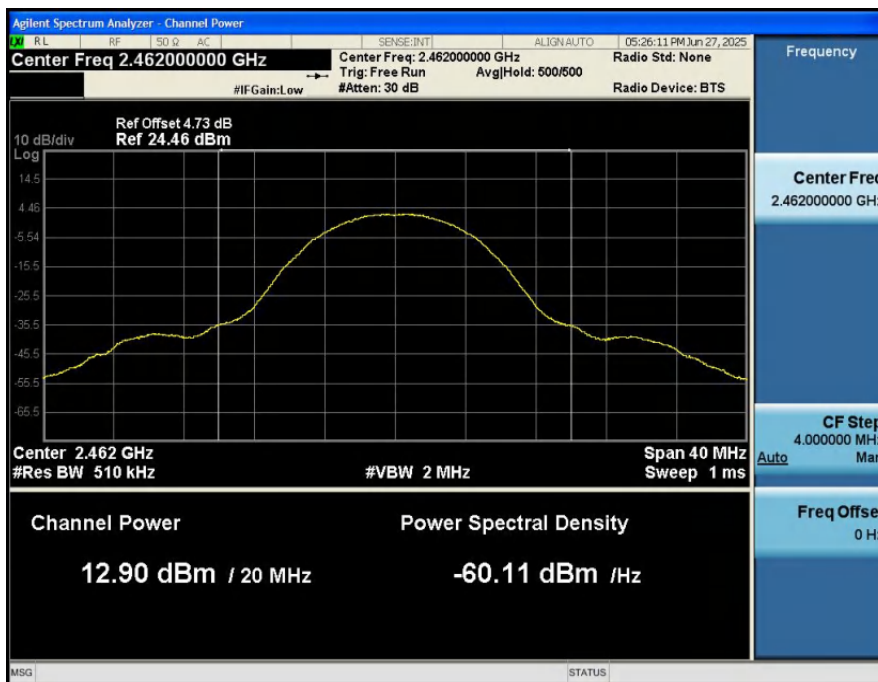
Note: 1.The cable loss are compensated in the graph.



MAX__Output_Power_NVNT_ANT1_802_11b_2437



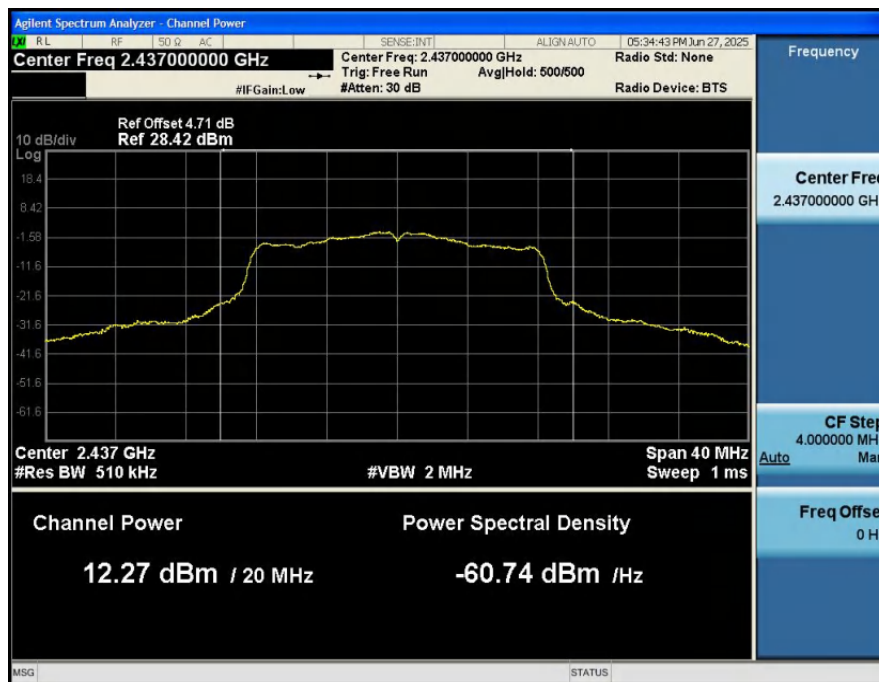
MAX__Output_Power_NVNT_ANT1_802_11b_2462



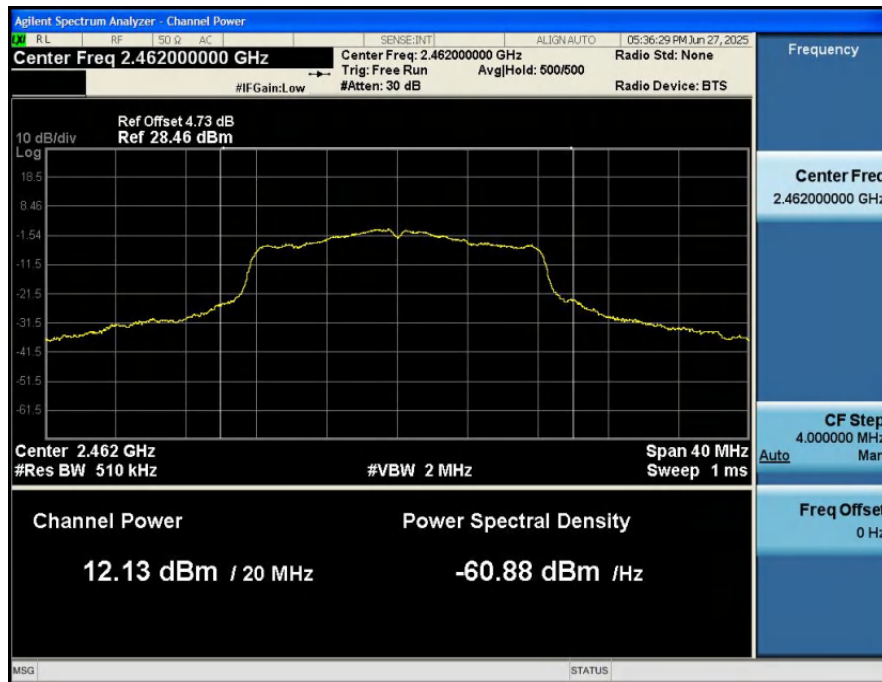
MAX__Output_Power_NVNT_ANT1_802_11g_2412



MAX__Output_Power_NVNT_ANT1_802_11g_2437



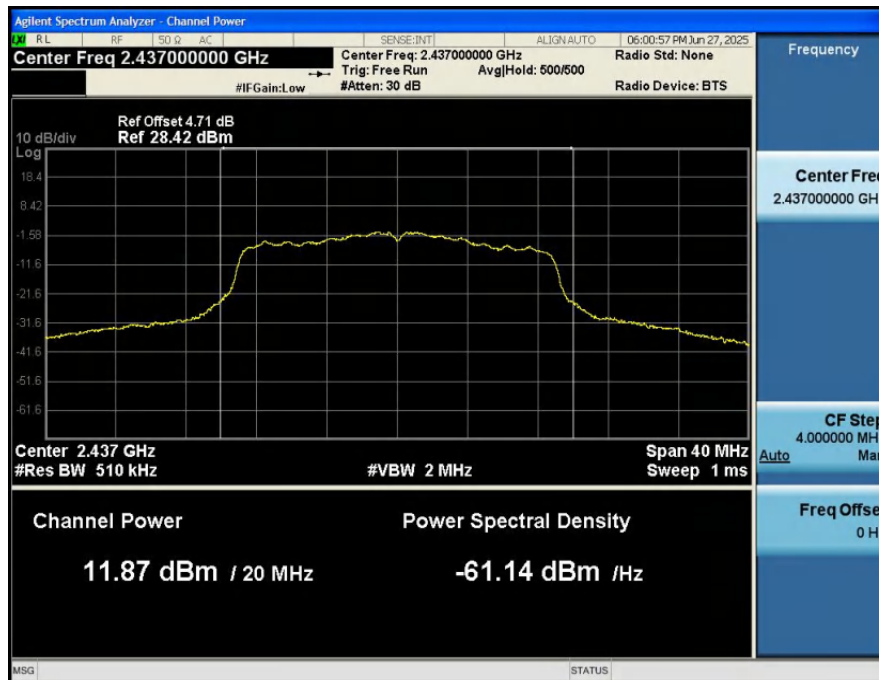
MAX__Output_Power_NVNT_ANT1_802_11g_2462



MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2412



MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2437



MAX__Output_Power_NVNT_ANT1_802_11n(HT20)_2462

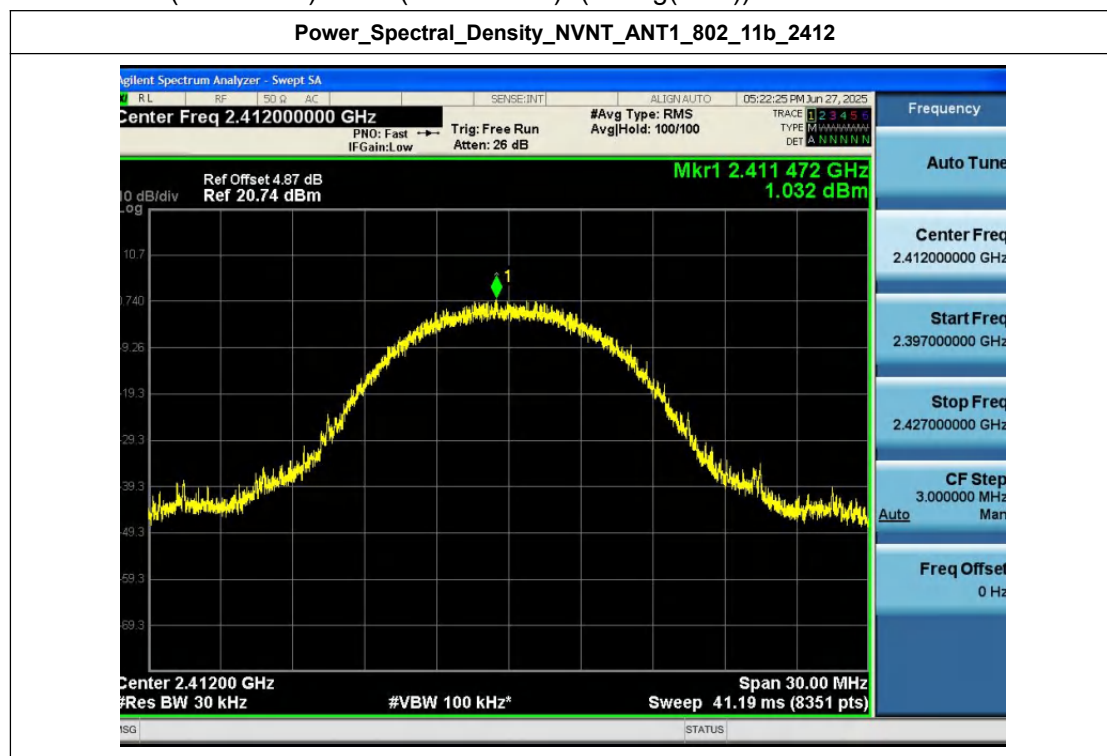


Appendix E: Power Spectral Density

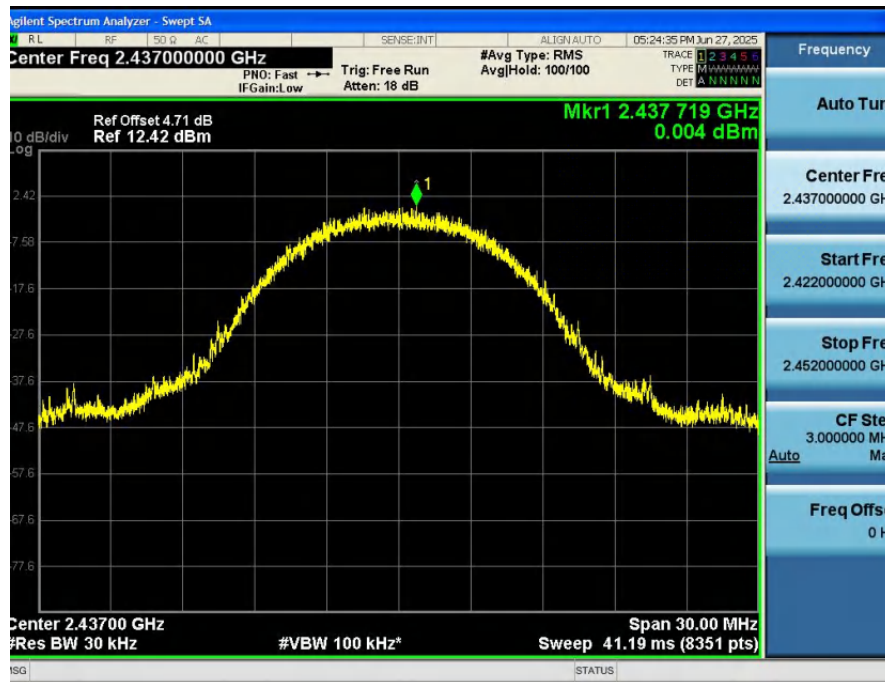
Condition	Antenna	Modulation	Frequency (MHz)	SA_PSD (dBm/30kHz)	Duty factor (dB)	RB factor (dB)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
NVNT	ANT1	802.11b	2412.00	1.03	0.29	-10.00	-8.68	8	Pass
NVNT	ANT1	802.11b	2437.00	0.00	0.29	-10.00	-9.71	8	Pass
NVNT	ANT1	802.11b	2462.00	0.57	0.29	-10.00	-9.14	8	Pass
NVNT	ANT1	802.11g	2412.00	-0.05	1.46	-10.00	-8.59	8	Pass
NVNT	ANT1	802.11g	2437.00	-1.46	1.46	-10.00	-10.00	8	Pass
NVNT	ANT1	802.11g	2462.00	-1.23	1.46	-10.00	-9.77	8	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	0.94	1.60	-10.00	-7.46	8	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	-0.69	1.92	-10.00	-8.77	8	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	-0.41	1.60	-10.00	-8.81	8	Pass

Note: 1.The cable loss are compensated in the graph.

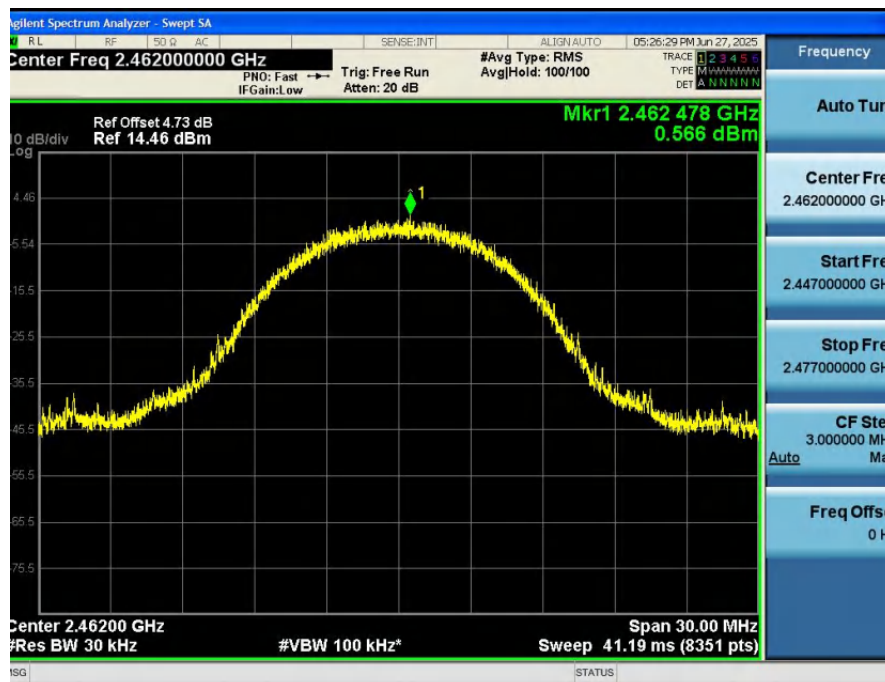
2.PSD(dBm/3kHz)= PSD(dBm/30kHz)- (10*log(30/3)).



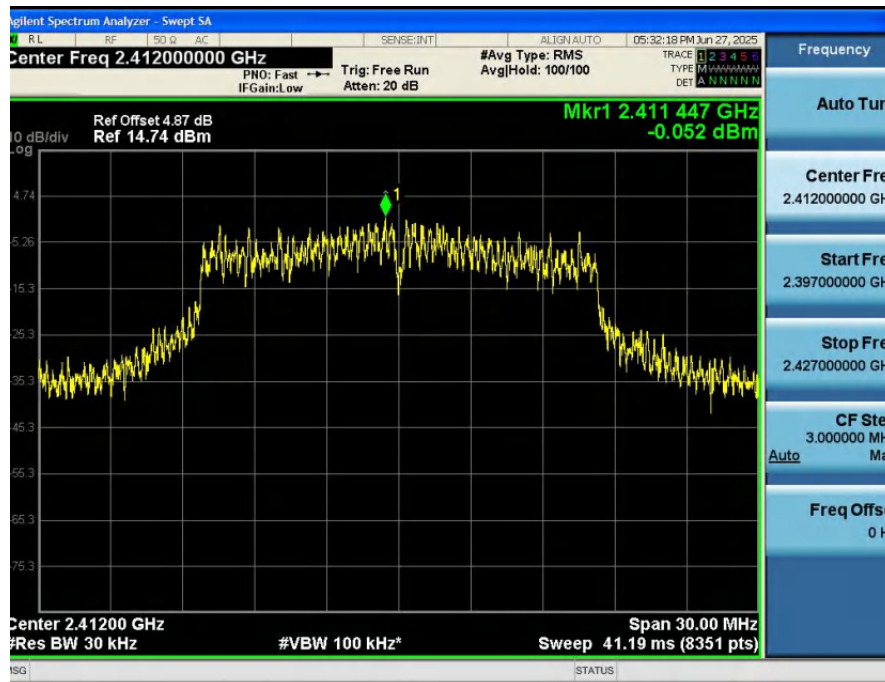
Power_Spectral_Density_NVNT_ANT1_802_11b_2437



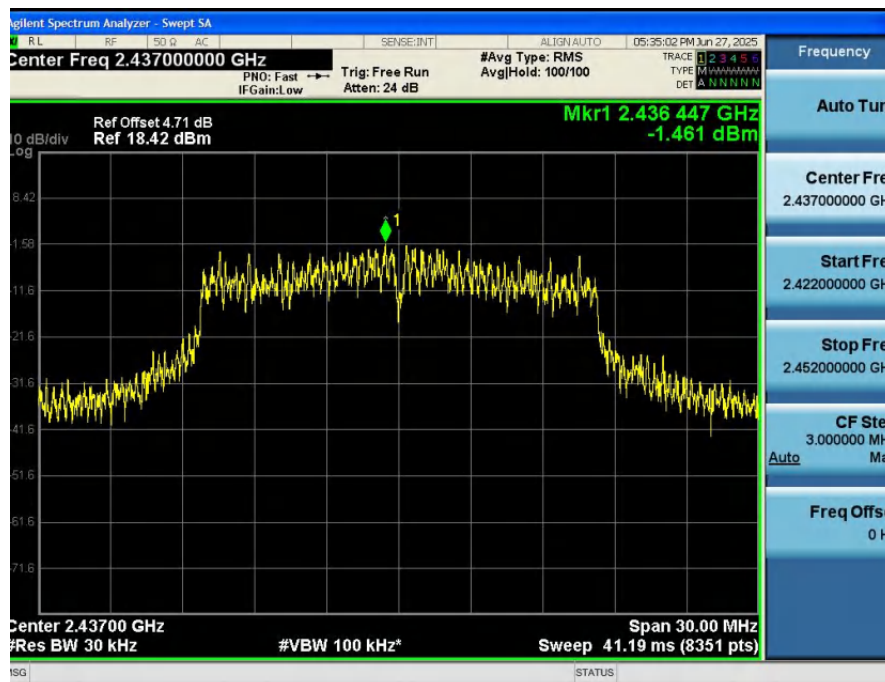
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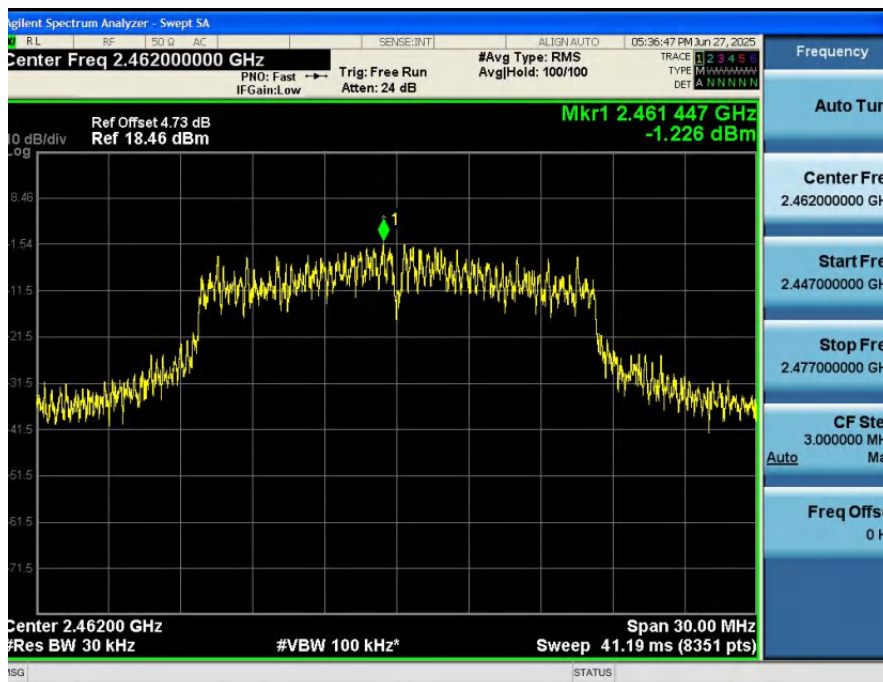
Power_Spectral_Density_NVNT_ANT1_802_11g_2412



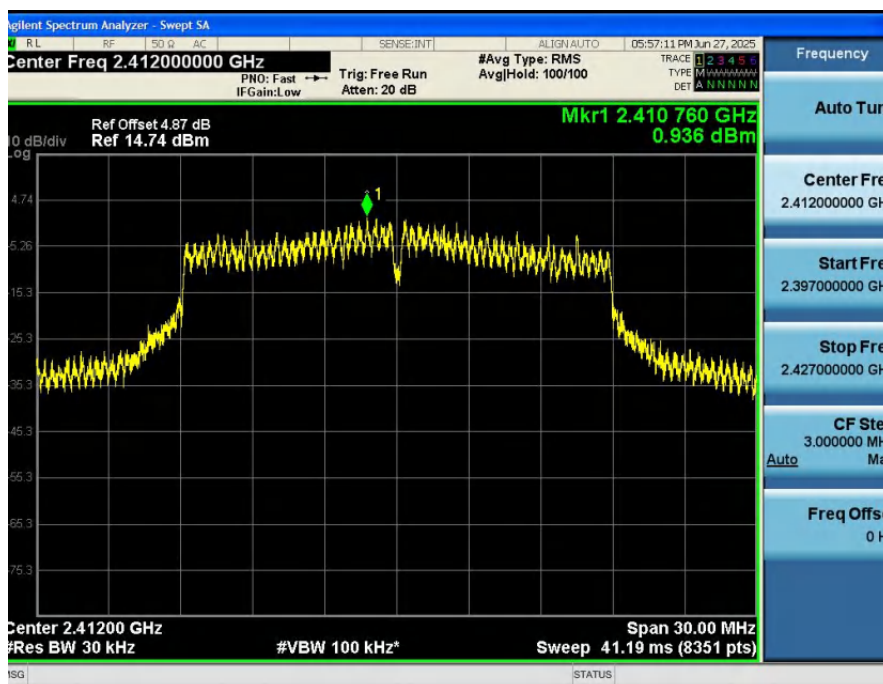
Power_Spectral_Density_NVNT_ANT1_802_11g_2437



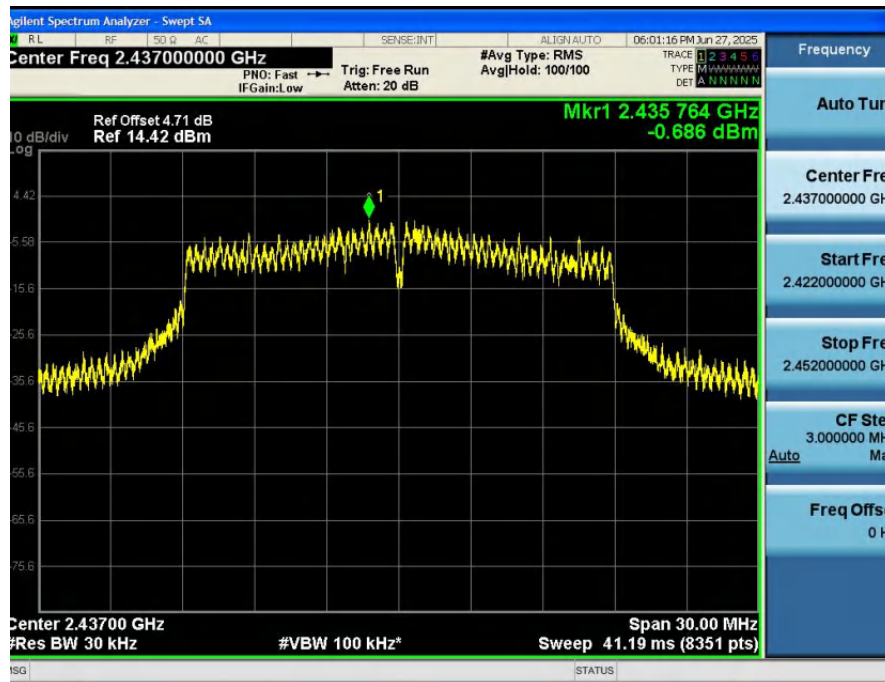
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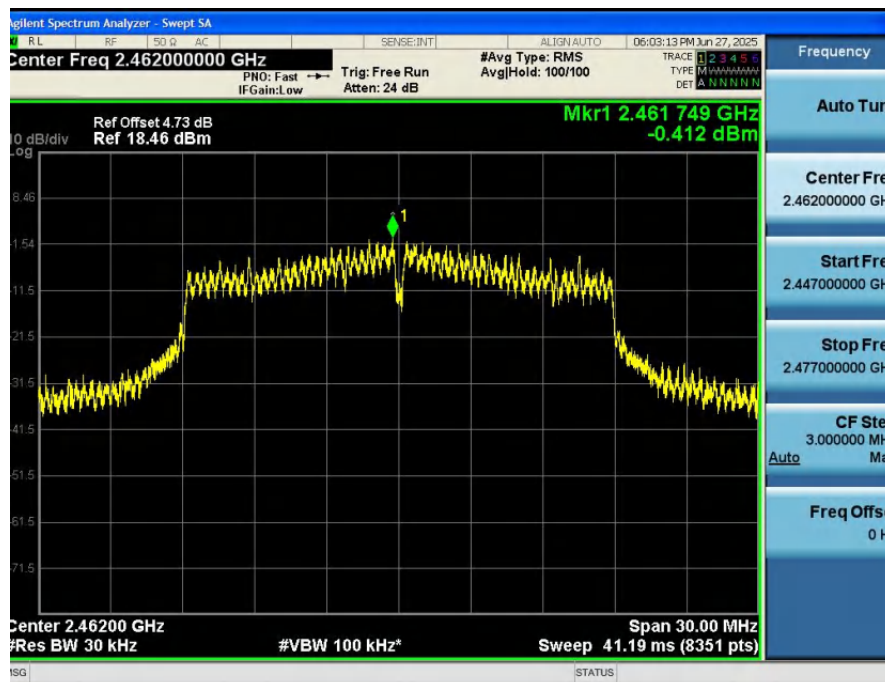
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2412



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2437



Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_2462



Appendix F: Bandedge

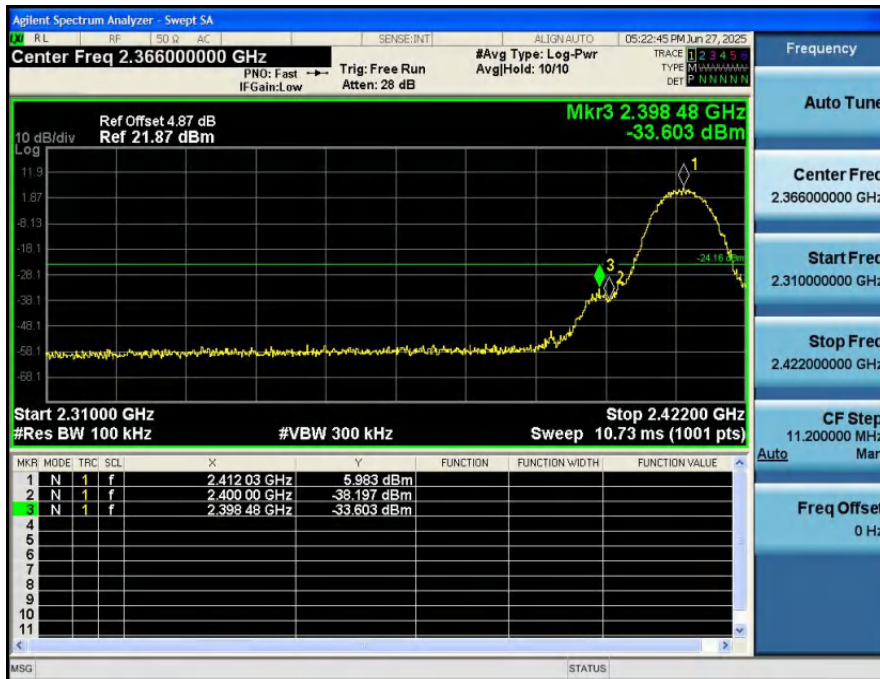
Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq (MHz)	Ref_level (dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	2398.480	5.841	-33.603	-24.159	Pass
NVNT	ANT1	802.11b	2462.00	2485.504	5.241	-52.465	-24.759	Pass
NVNT	ANT1	802.11g	2412.00	2399.152	2.023	-32.552	-27.977	Pass
NVNT	ANT1	802.11g	2462.00	2484.544	3.903	-34.195	-26.097	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	2399.488	1.725	-32.352	-28.275	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	2483.584	0.065	-39.542	-29.935	Pass

Remark:1. Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the 'offset' of the Spectrum Analyzer during the test.

1_Reference_Level_NVNT_ANT1_802_11b_2412



2_Bandedge_NVNT_ANT1_802_11b_2412



1_Reference_Level_NVNT_ANT1_802_11b_2462



2_Bandedge_NVNT_ANT1_802_11b_2462



1_Reference_Level_NVNT_ANT1_802_11g_2412



2_Bandedge_NVNT_ANT1_802_11g_2412



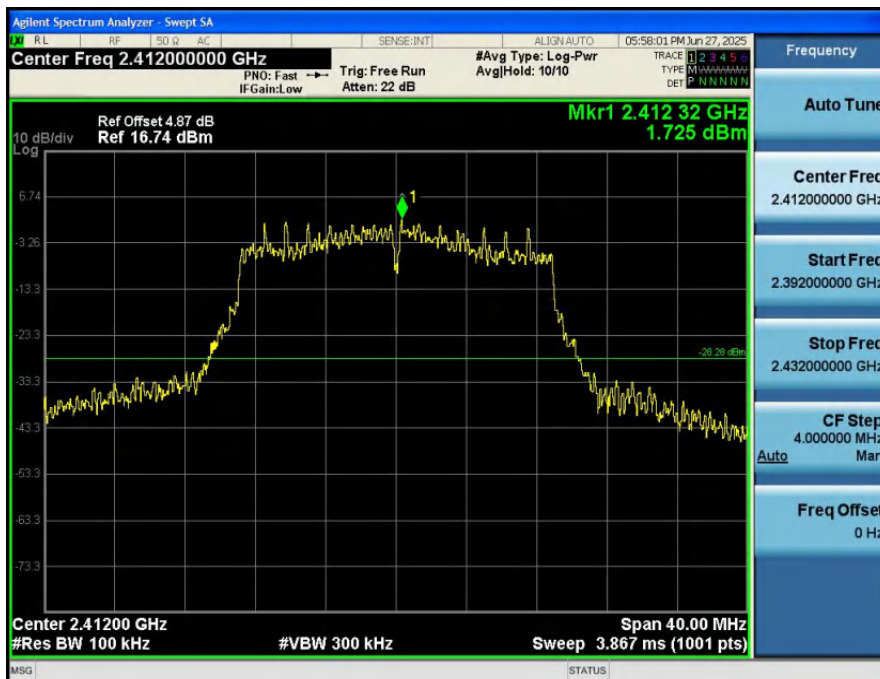
1_Reference_Level_NVNT_ANT1_802_11g_2462



2_Bandedge_NVNT_ANT1_802_11g_2462



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2412



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412



1_Reference_Level_NVNT_ANT1_802_11n(HT20)_2462



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462



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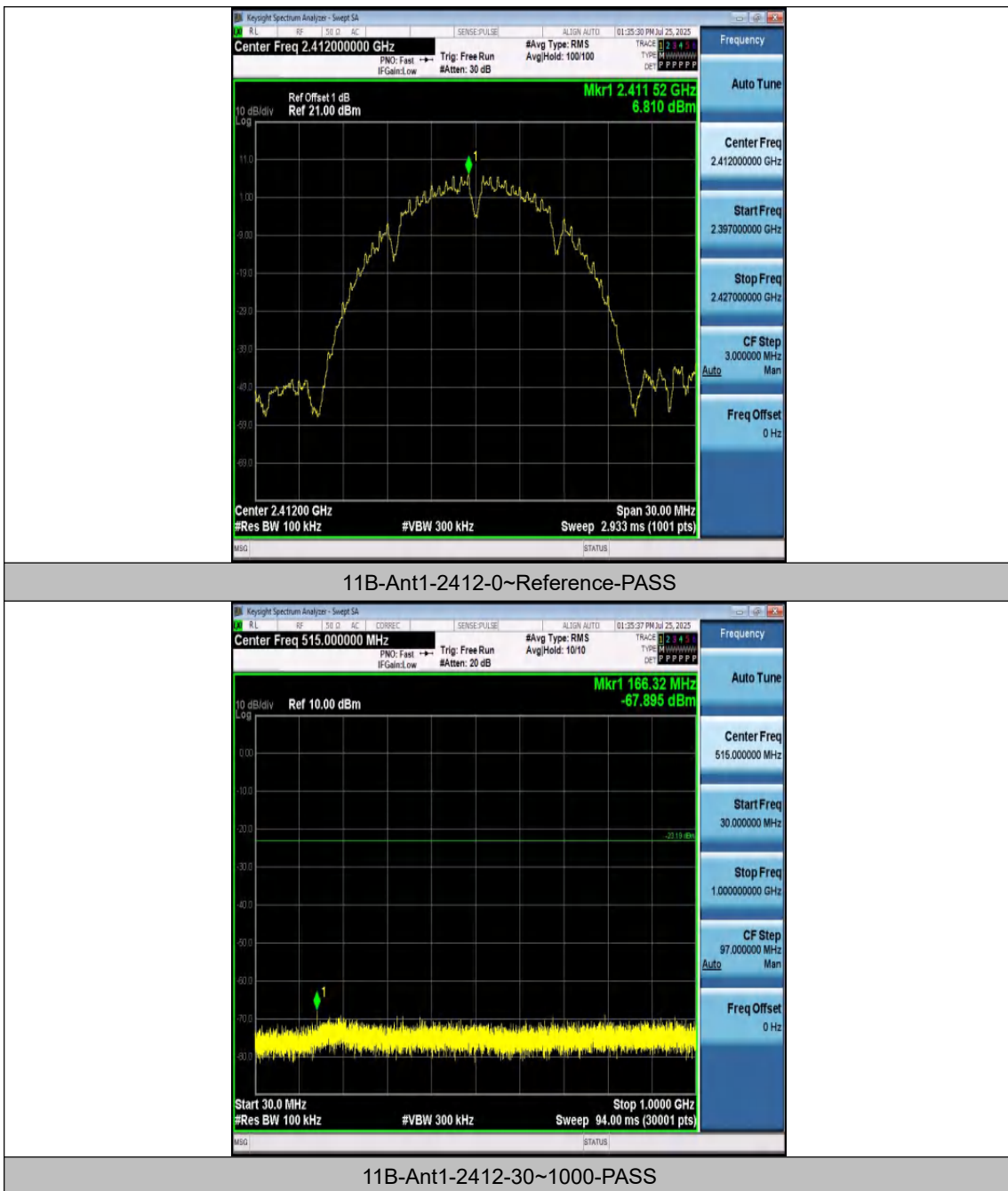
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Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Tel: (86) 0755-26066440 Email: service@anbotek.com

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Appendix G: Spurious Emission

Test Mode	Antenna	Frequency[MHz]	Freq. Range [Mhz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Result
11B	Ant1	2412	0~Reference	6.81	6.81	---	Pass
11B	Ant1	2412	30~1000	6.81	-67.9	≤-23.19	Pass
11B	Ant1	2412	1000~26500	6.81	-44.55	≤-23.19	Pass
11B	Ant1	2437	0~Reference	6.24	6.24	---	Pass
11B	Ant1	2437	30~1000	6.24	-68.38	≤-23.76	Pass
11B	Ant1	2437	1000~26500	6.24	-47.05	≤-23.76	Pass
11B	Ant1	2462	0~Reference	6.16	6.16	---	Pass
11B	Ant1	2462	30~1000	6.16	-67.27	≤-23.84	Pass
11B	Ant1	2462	1000~26500	6.16	-50.42	≤-23.84	Pass
11G	Ant1	2412	0~Reference	4.53	4.53	---	Pass
11G	Ant1	2412	30~1000	4.53	-68.86	≤-25.47	Pass
11G	Ant1	2412	1000~26500	4.53	-47.86	≤-25.47	Pass
11G	Ant1	2437	0~Reference	3.38	3.38	---	Pass
11G	Ant1	2437	30~1000	3.38	-68.84	≤-26.62	Pass
11G	Ant1	2437	1000~26500	3.38	-53.63	≤-26.62	Pass
11G	Ant1	2462	0~Reference	4.87	4.87	---	Pass
11G	Ant1	2462	30~1000	4.87	-68.94	≤-25.13	Pass
11G	Ant1	2462	1000~26500	4.87	-52.58	≤-25.13	Pass
11N20SISO	Ant1	2412	0~Reference	3.05	3.05	---	Pass
11N20SISO	Ant1	2412	30~1000	3.05	-68.85	≤-26.95	Pass
11N20SISO	Ant1	2412	1000~26500	3.05	-49.31	≤-26.95	Pass
11N20SISO	Ant1	2437	0~Reference	5.11	5.11	---	Pass
11N20SISO	Ant1	2437	30~1000	5.11	-68.83	≤-24.89	Pass
11N20SISO	Ant1	2437	1000~26500	5.11	-53.48	≤-24.89	Pass
11N20SISO	Ant1	2462	0~Reference	3.99	3.99	---	Pass
11N20SISO	Ant1	2462	30~1000	3.99	-68.78	≤-26.01	Pass
11N20SISO	Ant1	2462	1000~26500	3.99	-52.83	≤-26.01	Pass

Note:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the 'Input Correction' of the Spectrum Analyzer during the test.



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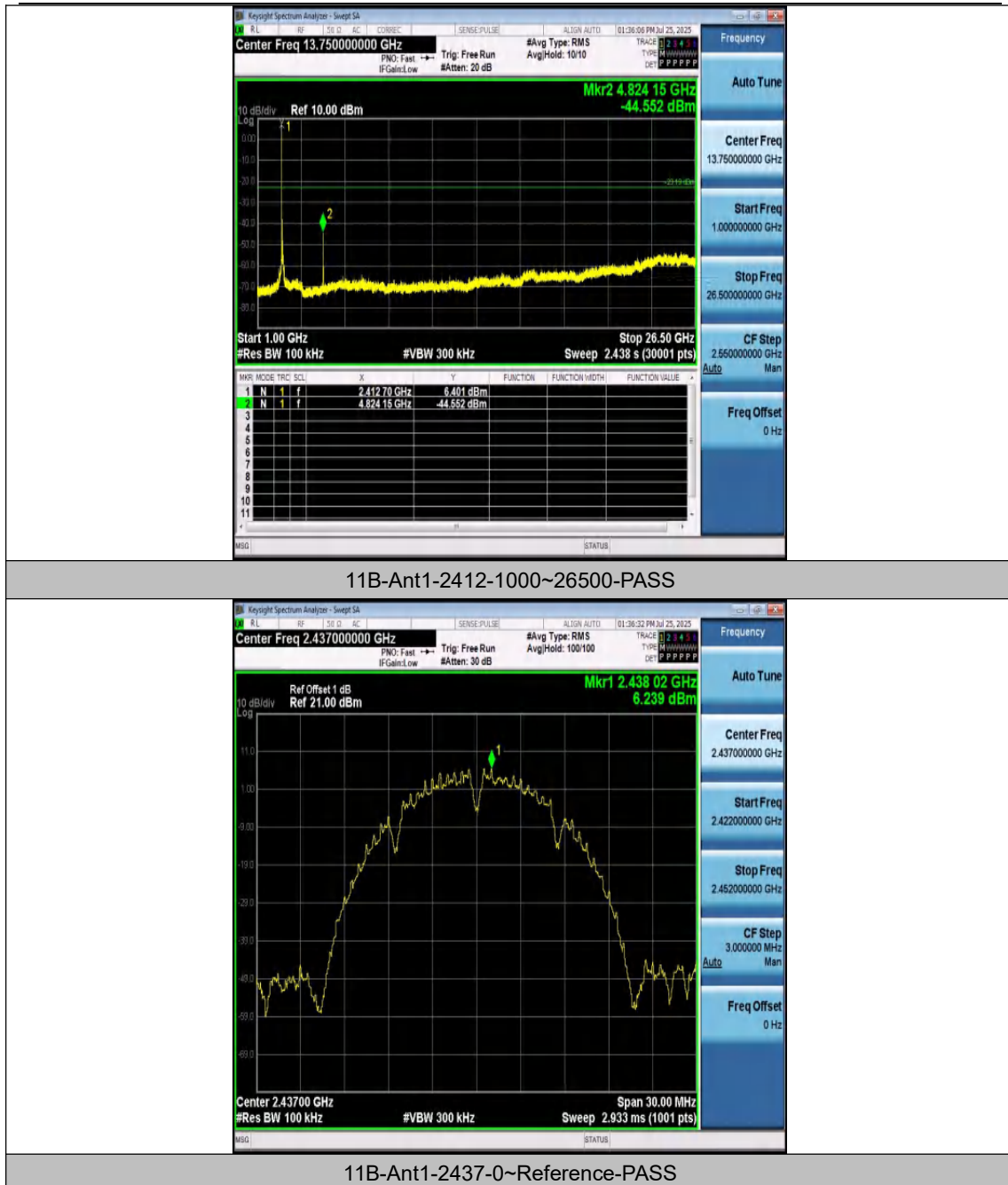
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China

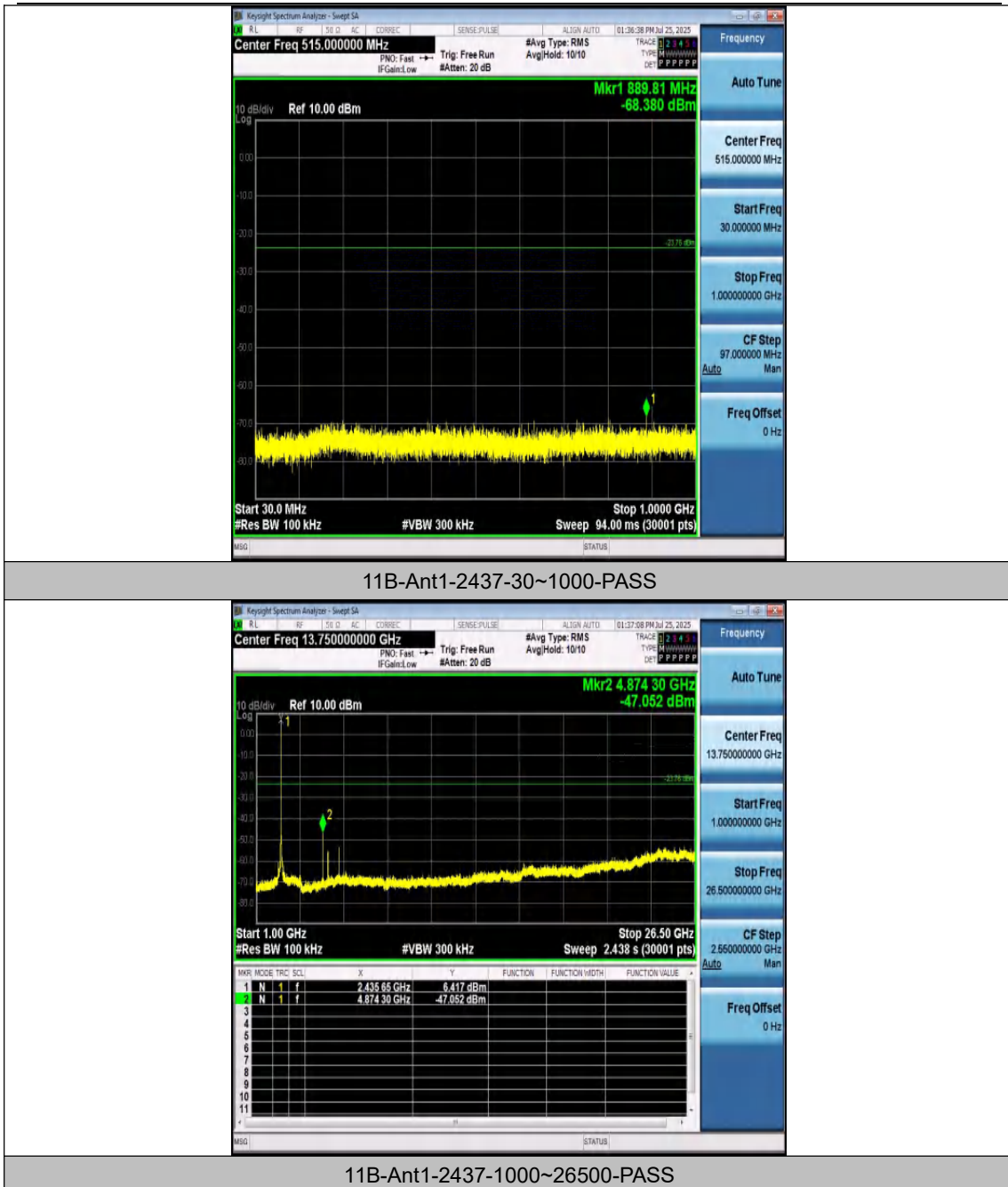
Tel: (86) 0755-26066440 Email: service@anbotek.com

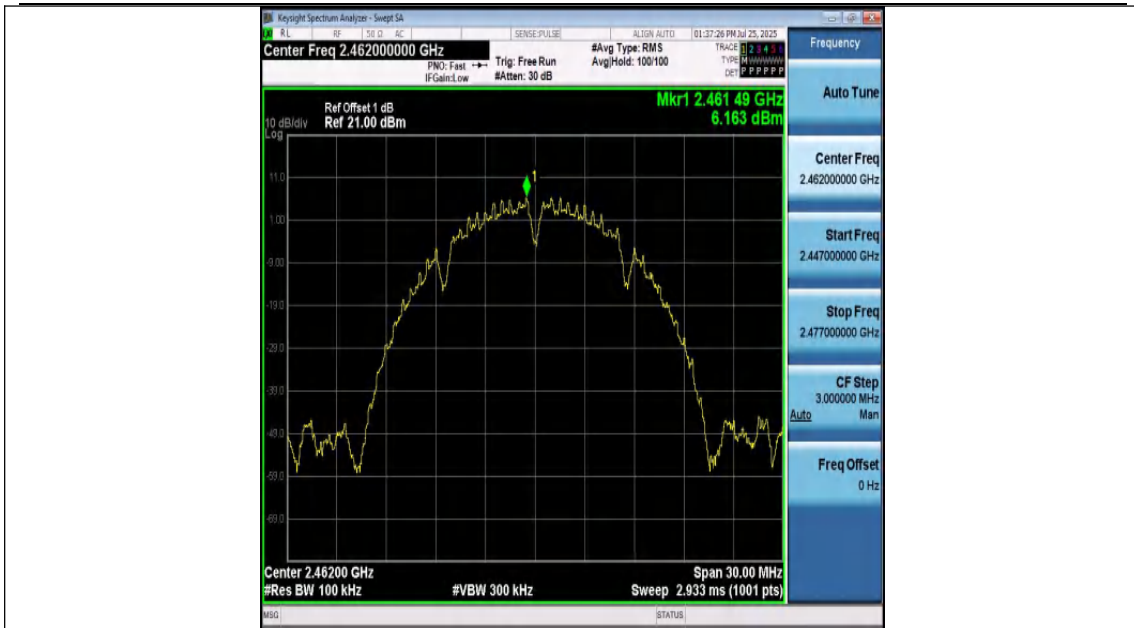


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400-003-0500

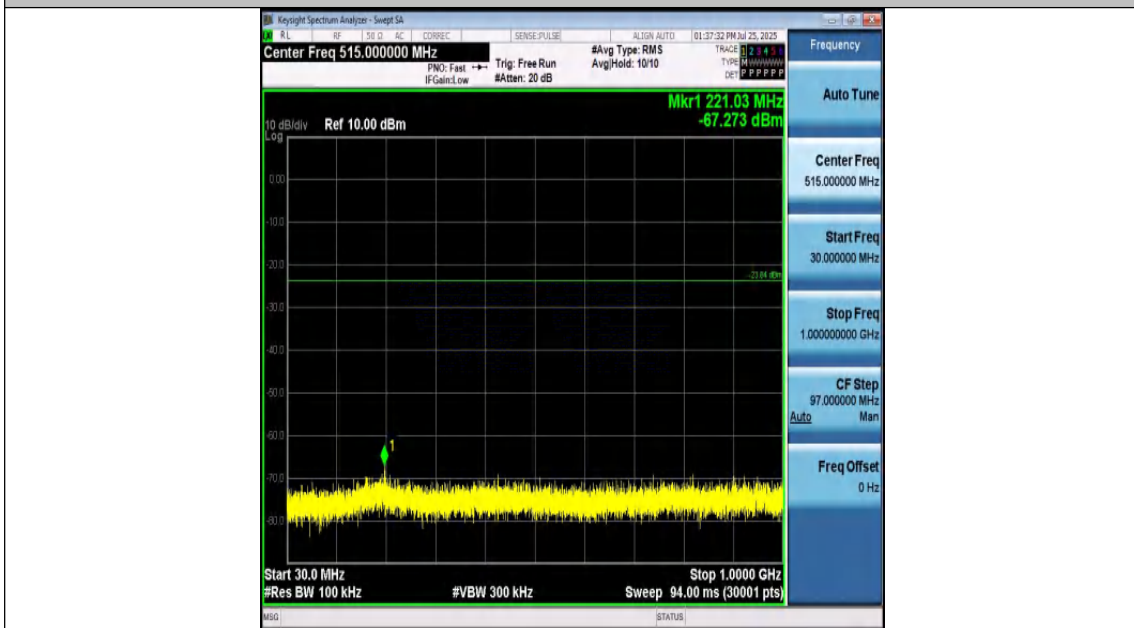
www.anbotek.com



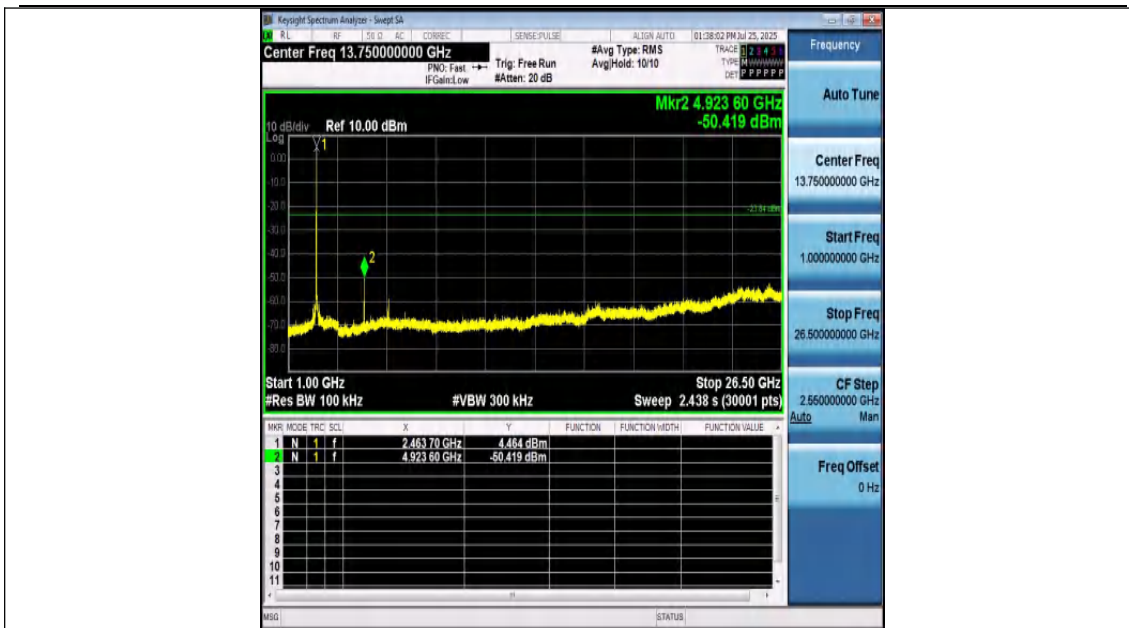




11B-Ant1-2462-0~Reference-PASS



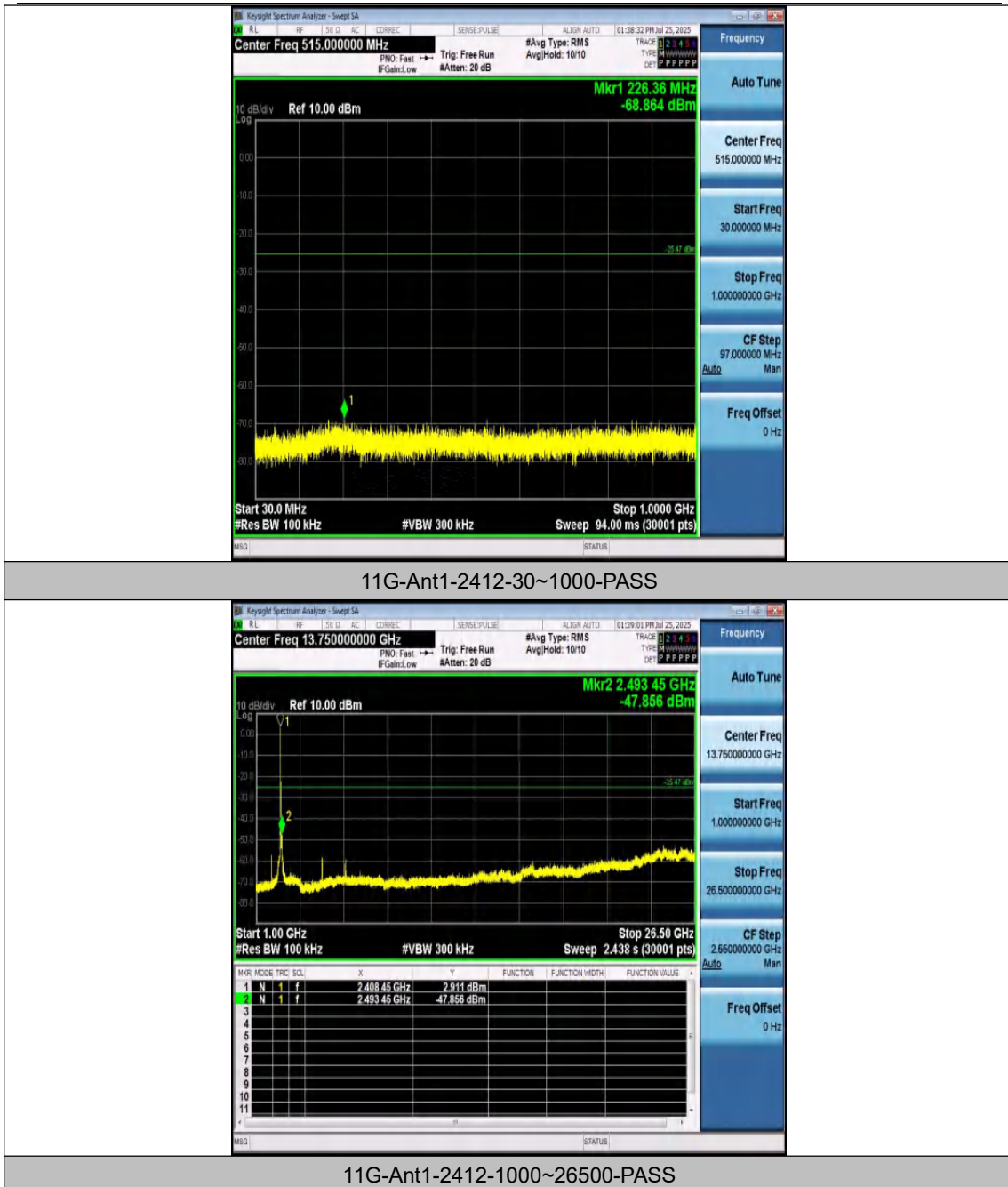
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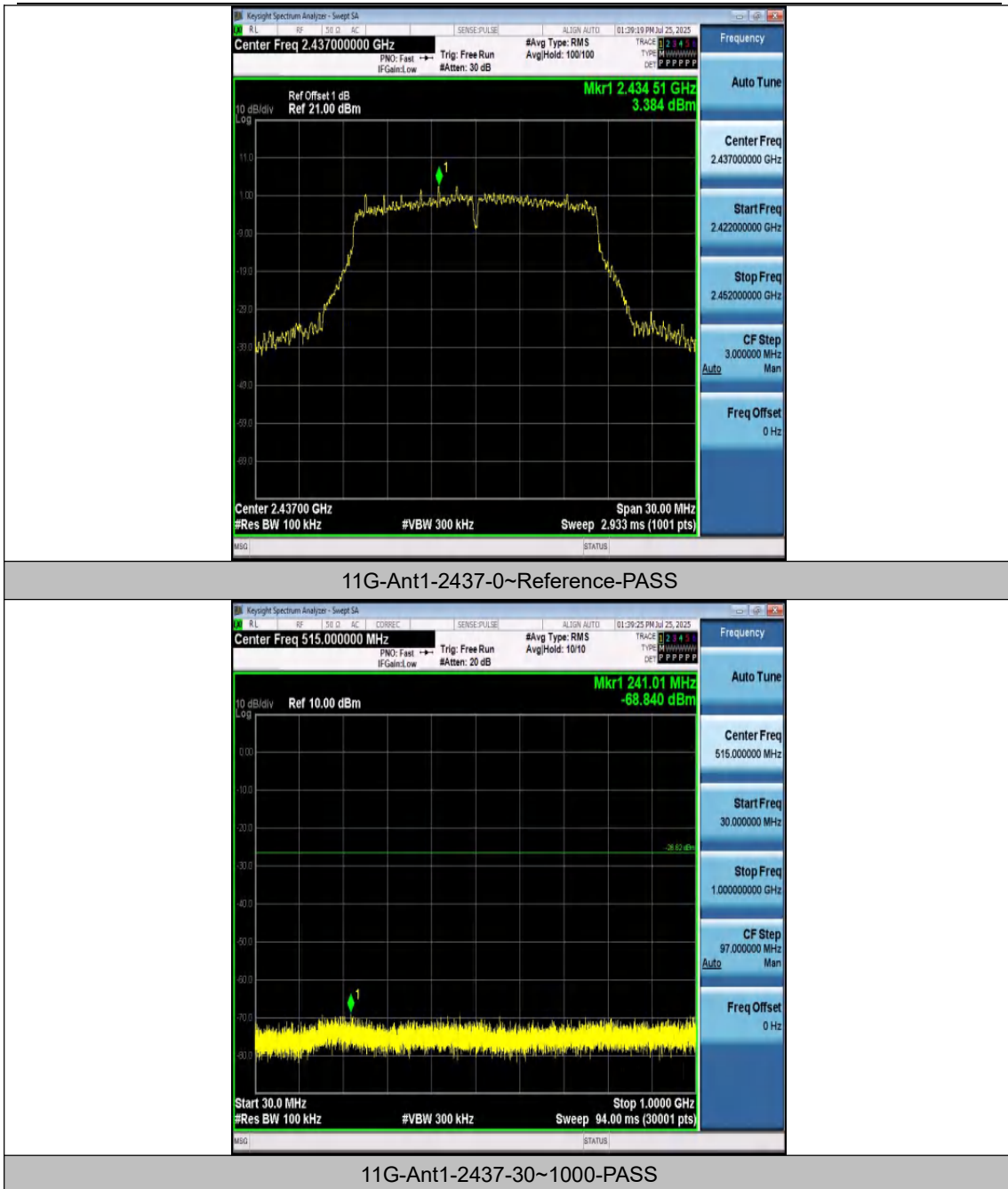


11B-Ant1-2462-1000~26500-PASS



11G-Ant1-2412-0~Reference-PASS



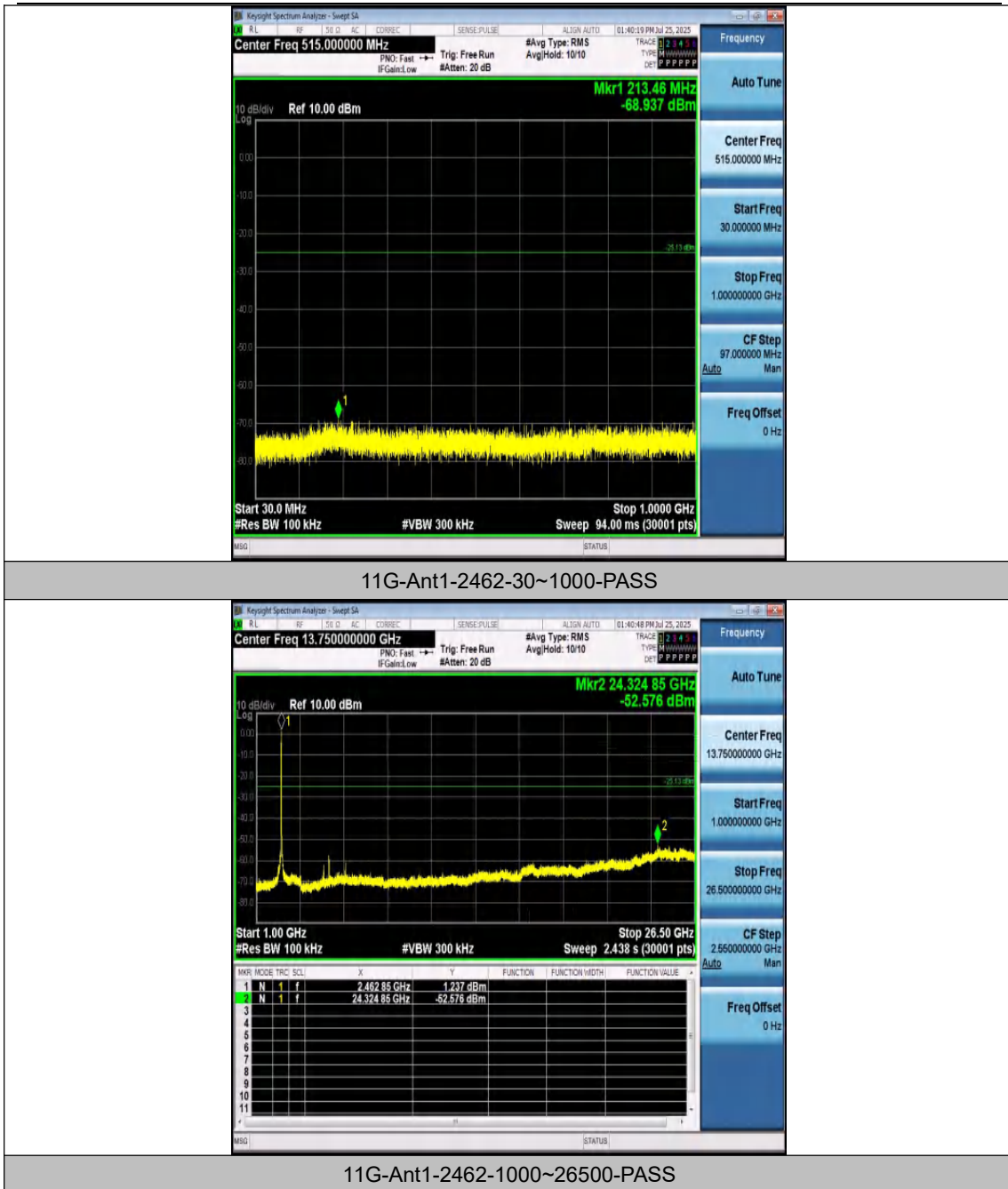




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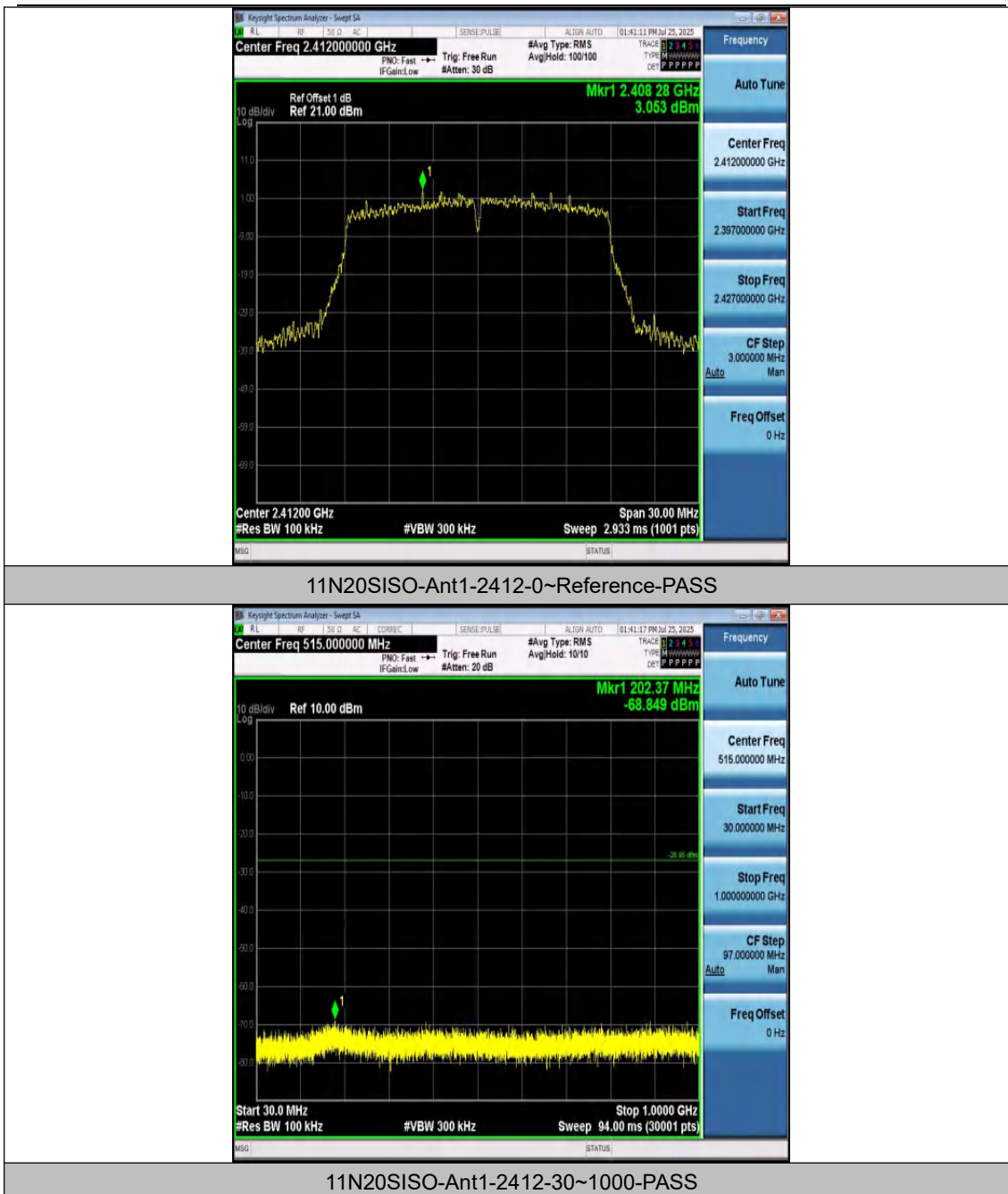
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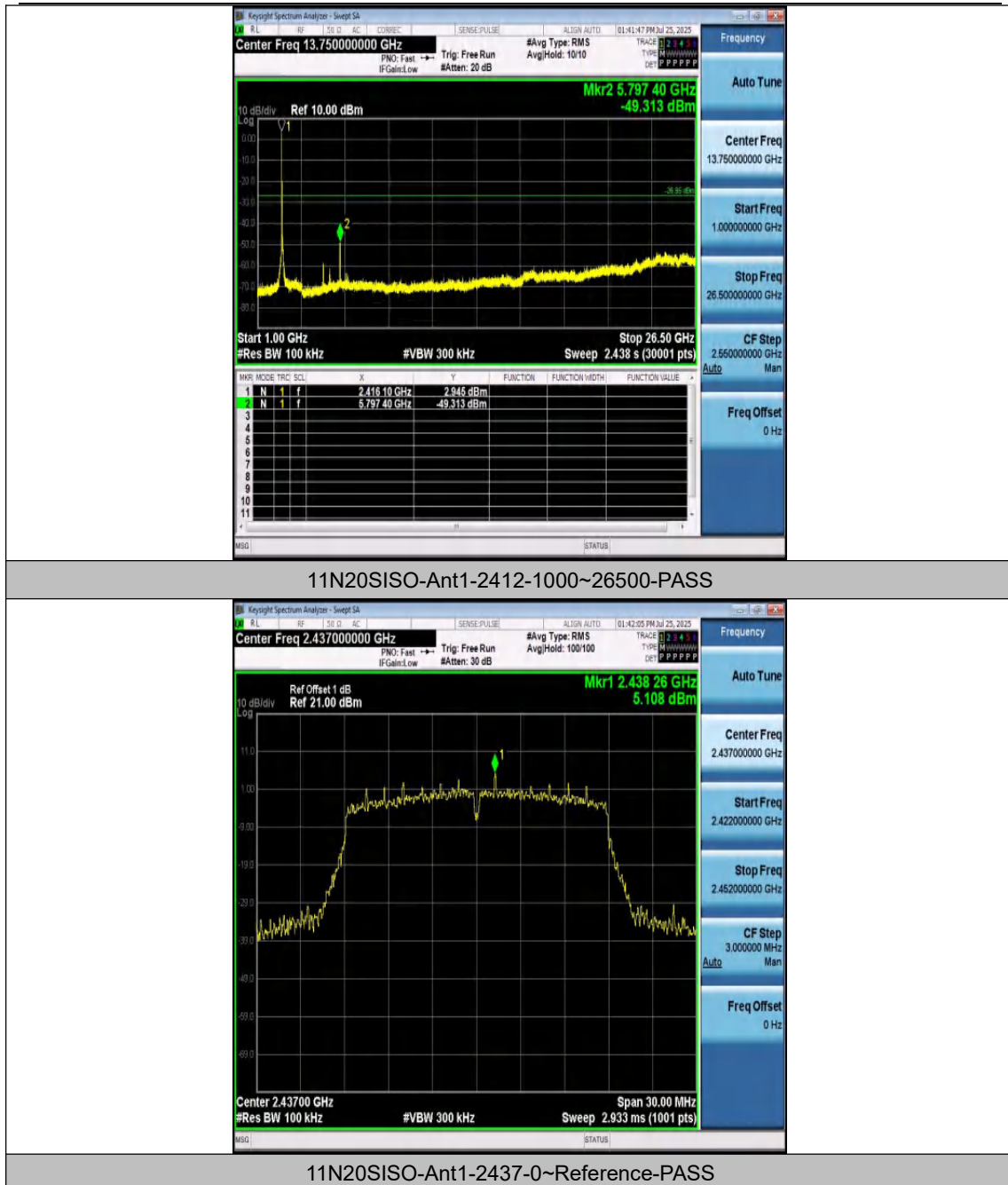


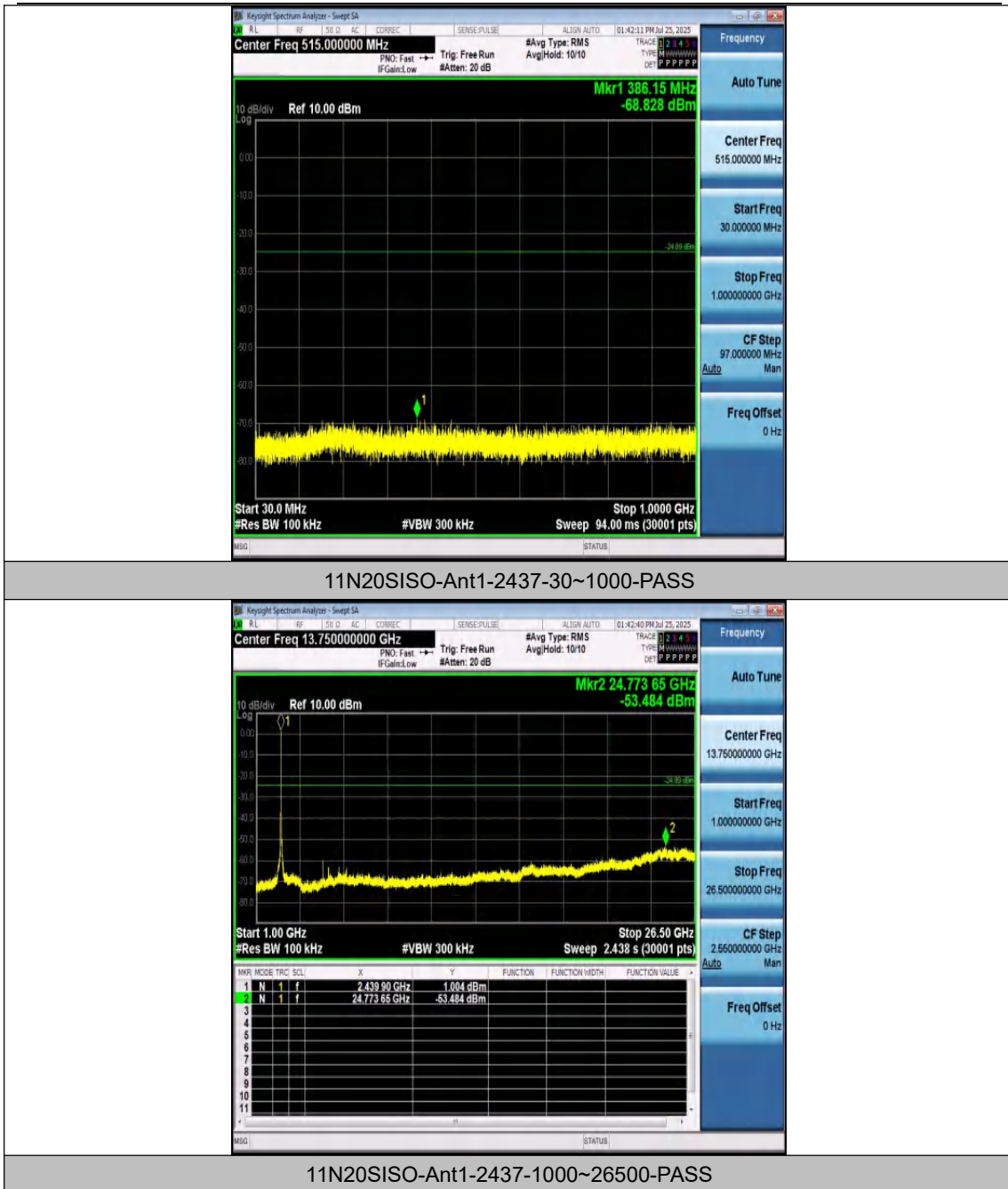
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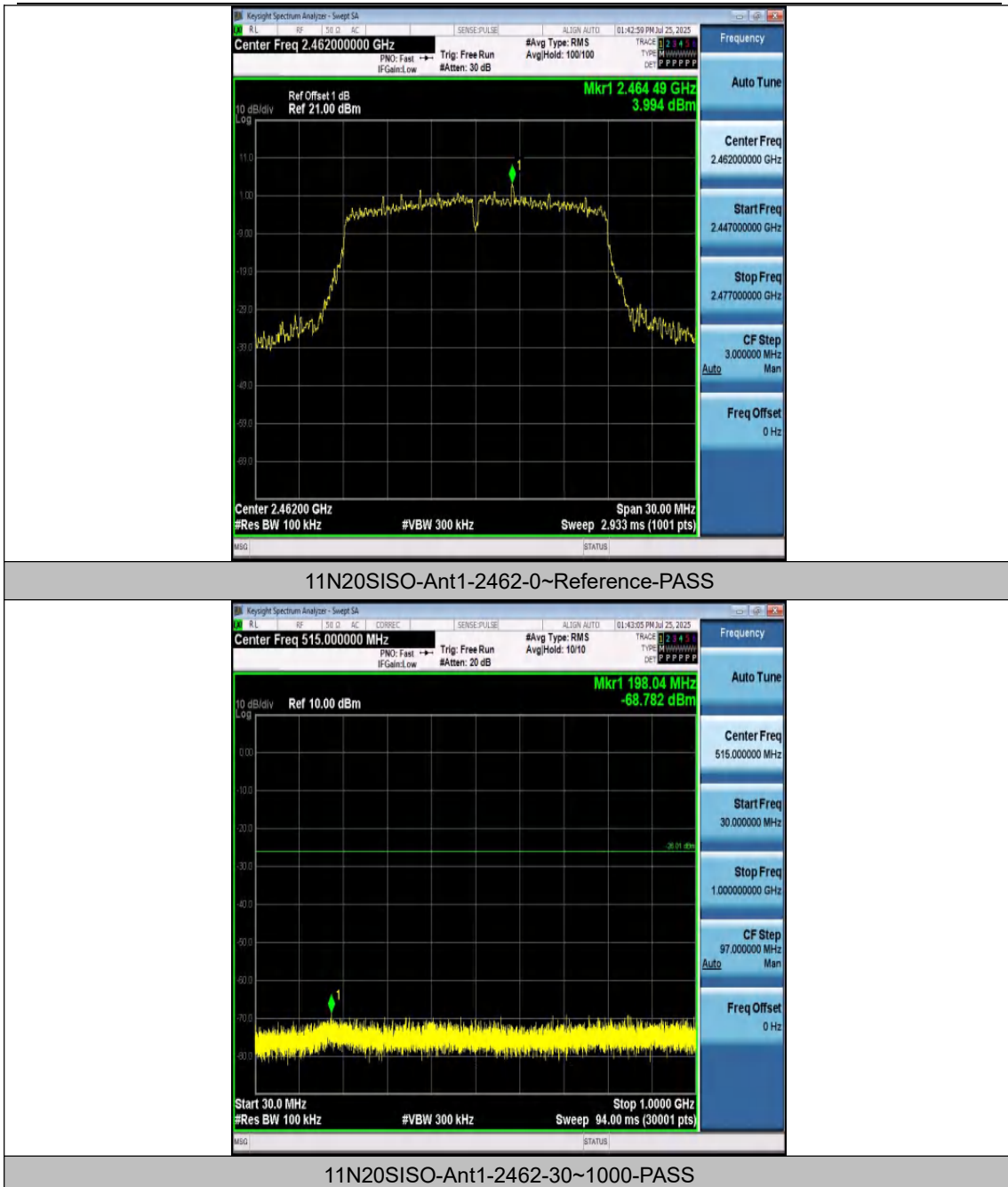
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park,
Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Tel: (86) 0755-26066440 Email: service@anbotek.com

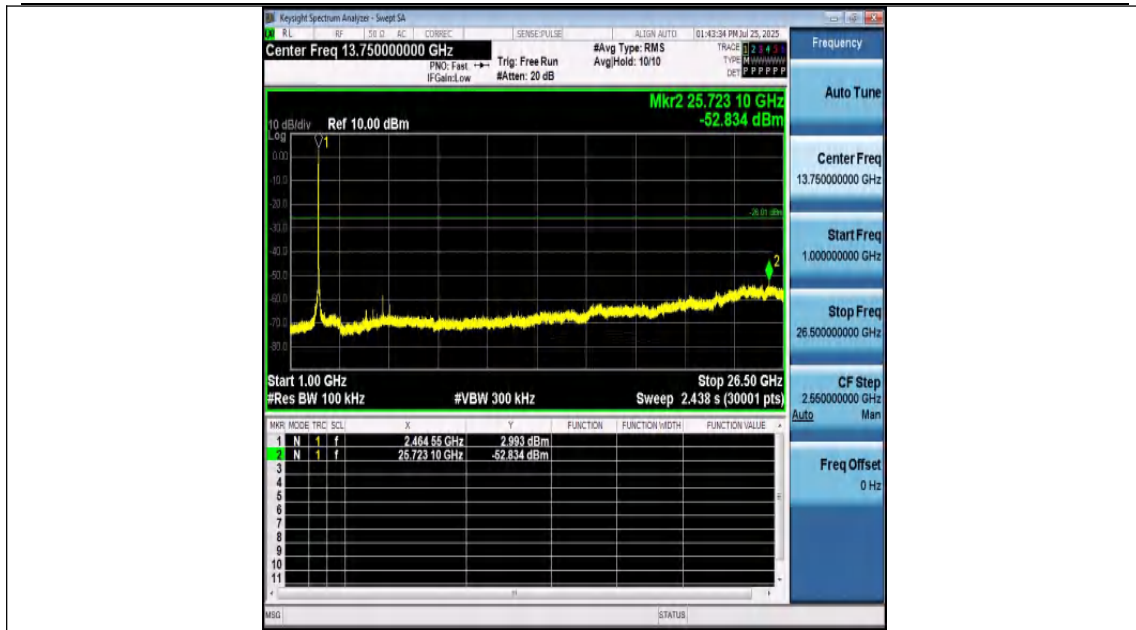
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