

Appendix A: Test Results of Bluetooth BR & EDR mode

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Appendix A.1: Test Results of 99% Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%BW(MHz)
NVNT	ANT1	1-DH1	2402.00	0.876
NVNT	ANT1	1-DH1	2441.00	0.867
NVNT	ANT1	1-DH1	2480.00	0.870
NVNT	ANT1	2-DH1	2402.00	1.187
NVNT	ANT1	2-DH1	2441.00	1.186
NVNT	ANT1	2-DH1	2480.00	1.182
NVNT	ANT1	3-DH1	2402.00	1.173
NVNT	ANT1	3-DH1	2441.00	1.192
NVNT	ANT1	3-DH1	2480.00	1.187

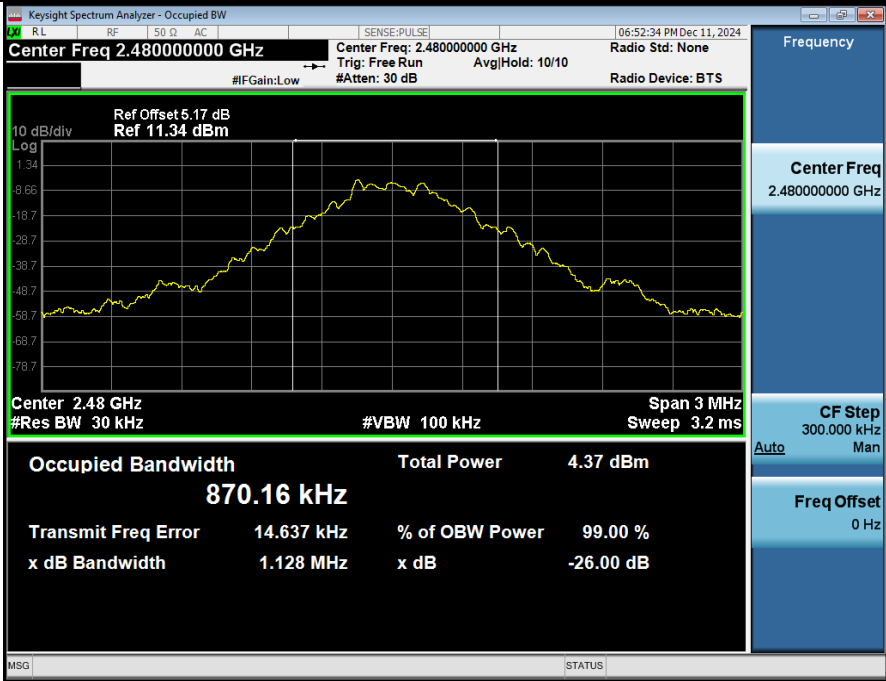
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99%_Occupied_Bandwidth_NVNT_ANT1_1-DH1_2441_00



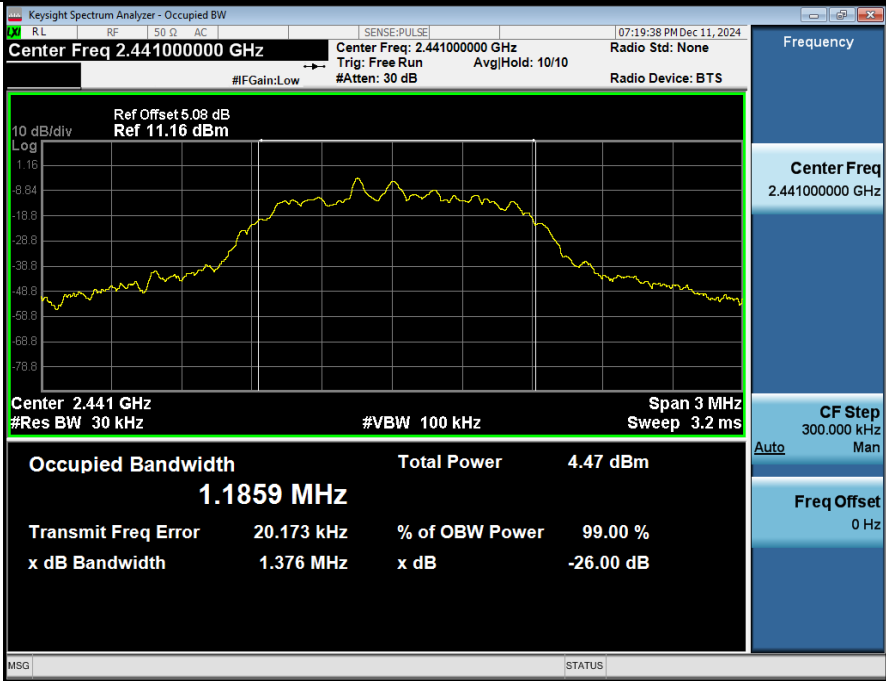
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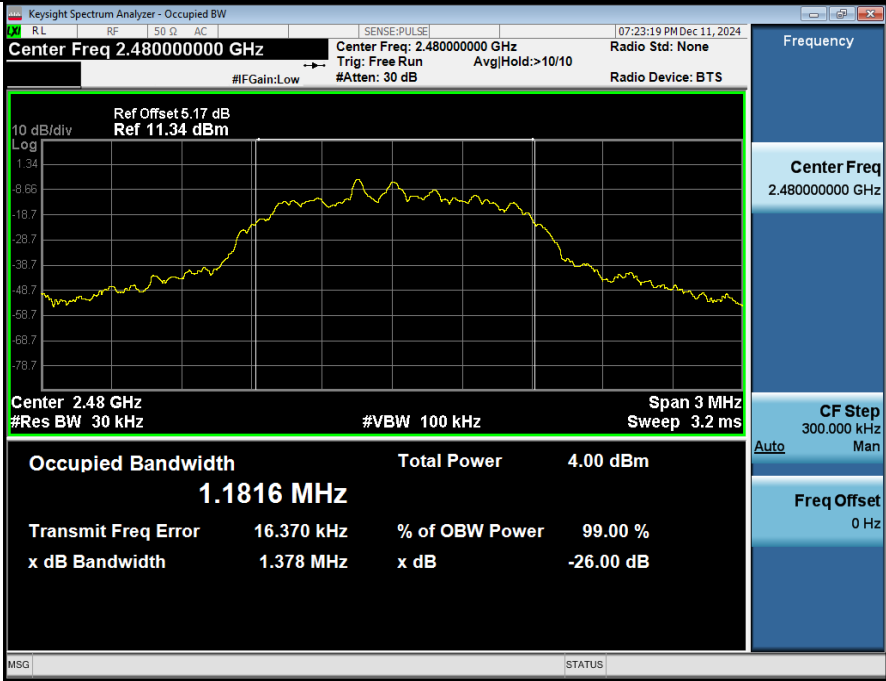
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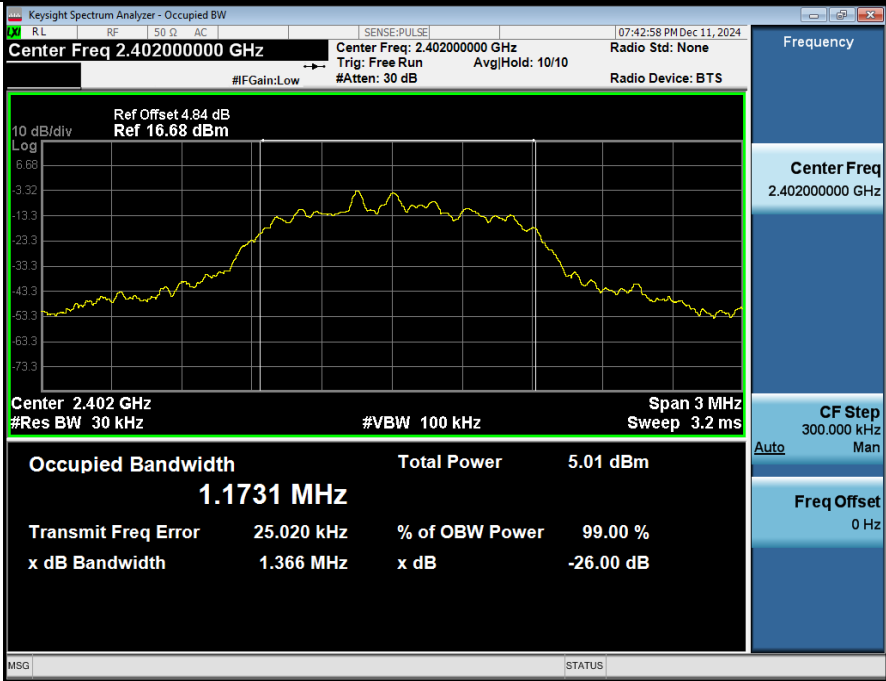
99%_Occupied_Bandwidth_NVNT_ANT1_2-DH1_2441_00



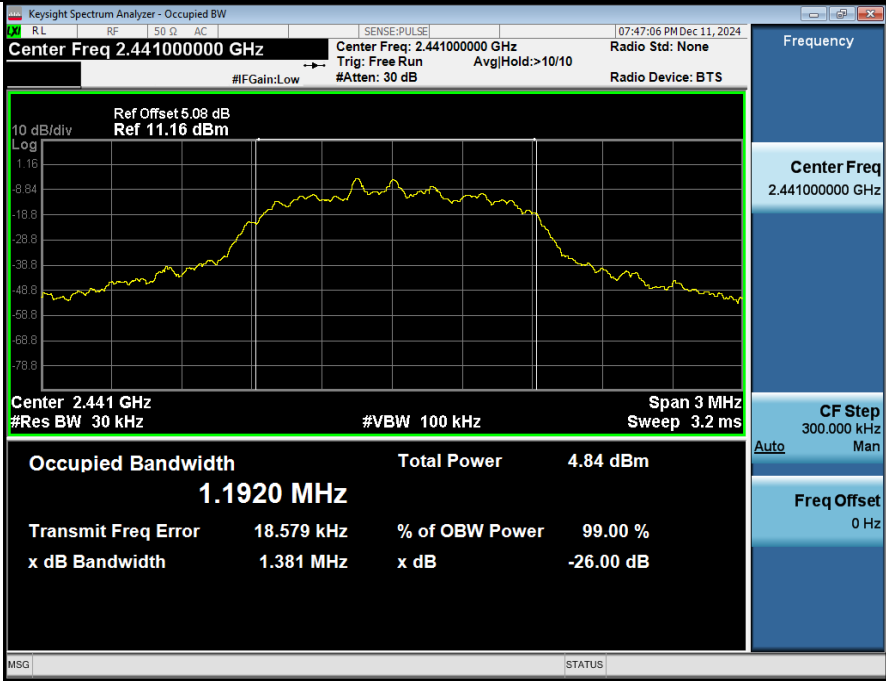
99%_Occupied_Bandwidth_NVNT_ANT1_2-DH1_2480_00



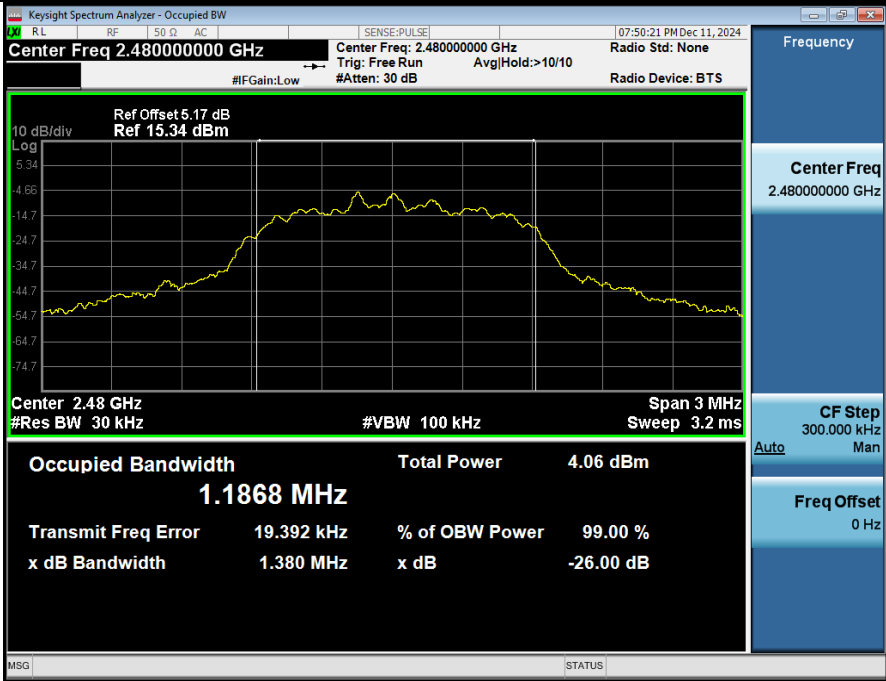
99%_Occupied_Bandwidth_NVNT_ANT1_3-DH1_2402_00



99%_Occupied_Bandwidth_NVNT_ANT1_3-DH1_2441_00

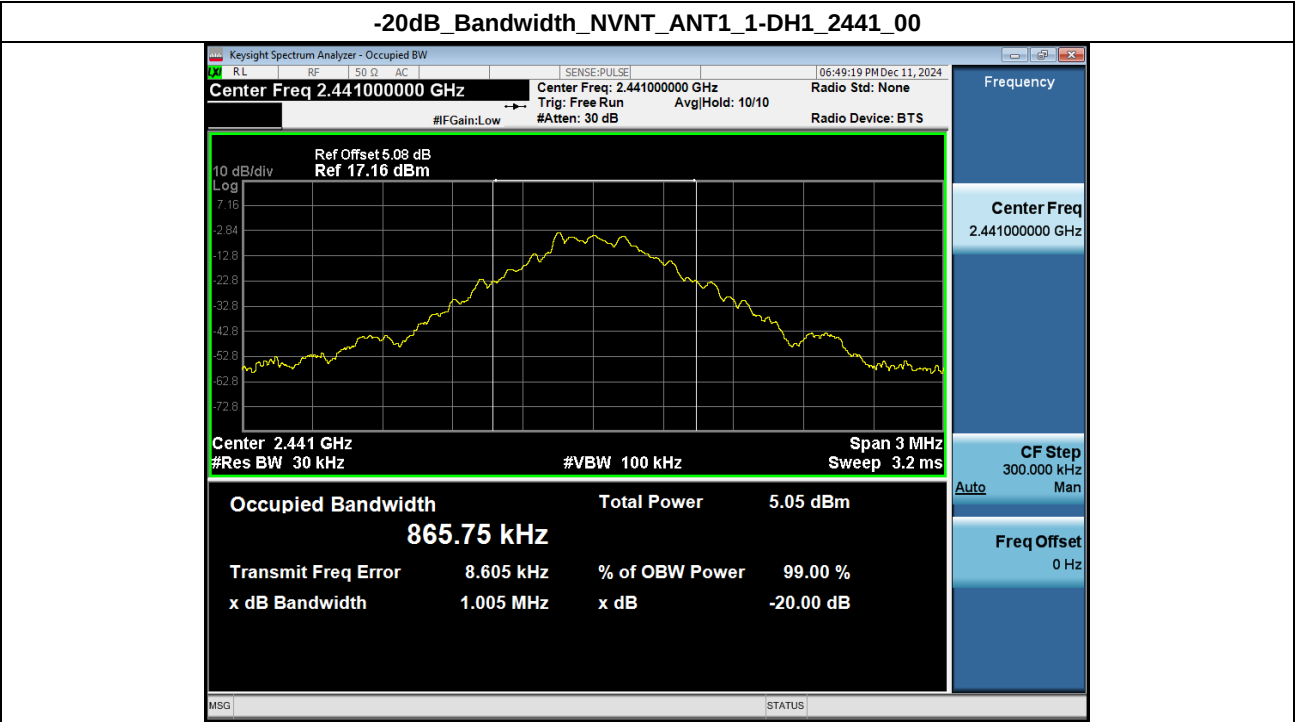
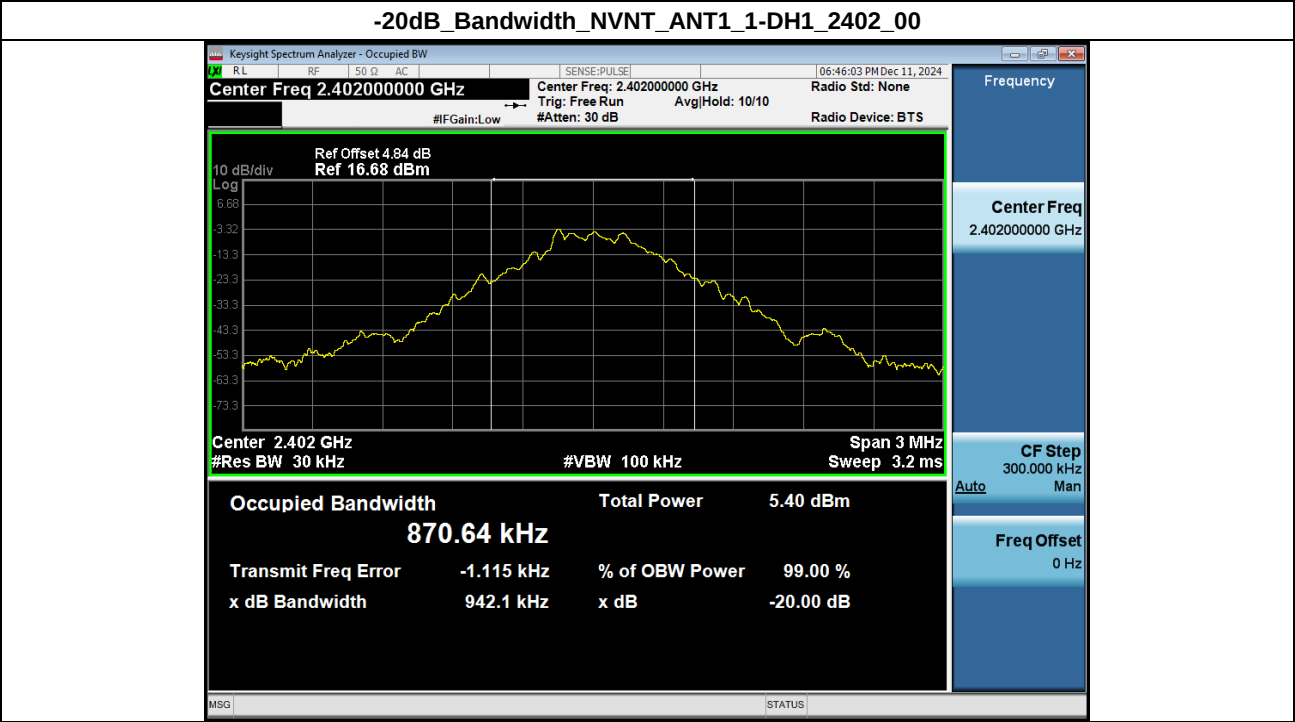


99%_Occupied_Bandwidth_NVNT_ANT1_3-DH1_2480_00

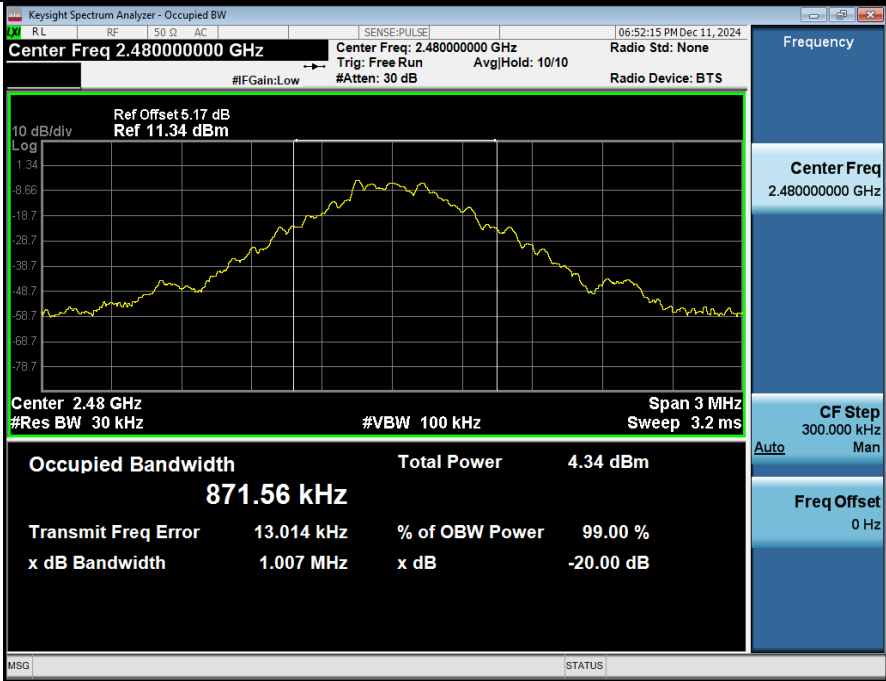


Appendix A.2: Test Results of 20dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW (MHz)	if larger than CFS
NVNT	ANT1	1-DH1	2402.00	0.942	No
NVNT	ANT1	1-DH1	2441.00	1.005	Yes
NVNT	ANT1	1-DH1	2480.00	1.007	Yes
NVNT	ANT1	2-DH1	2402.00	1.284	Yes
NVNT	ANT1	2-DH1	2441.00	1.279	Yes
NVNT	ANT1	2-DH1	2480.00	1.271	Yes
NVNT	ANT1	3-DH1	2402.00	1.250	Yes
NVNT	ANT1	3-DH1	2441.00	1.295	Yes
NVNT	ANT1	3-DH1	2480.00	1.294	Yes



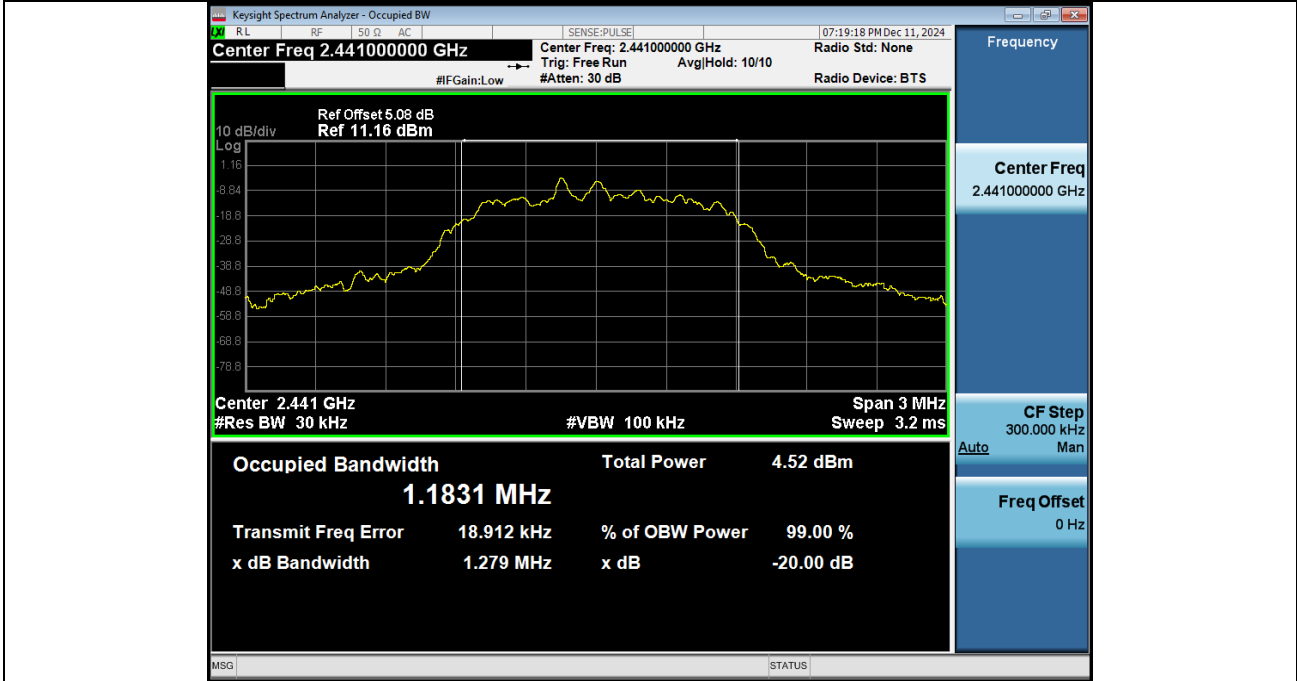
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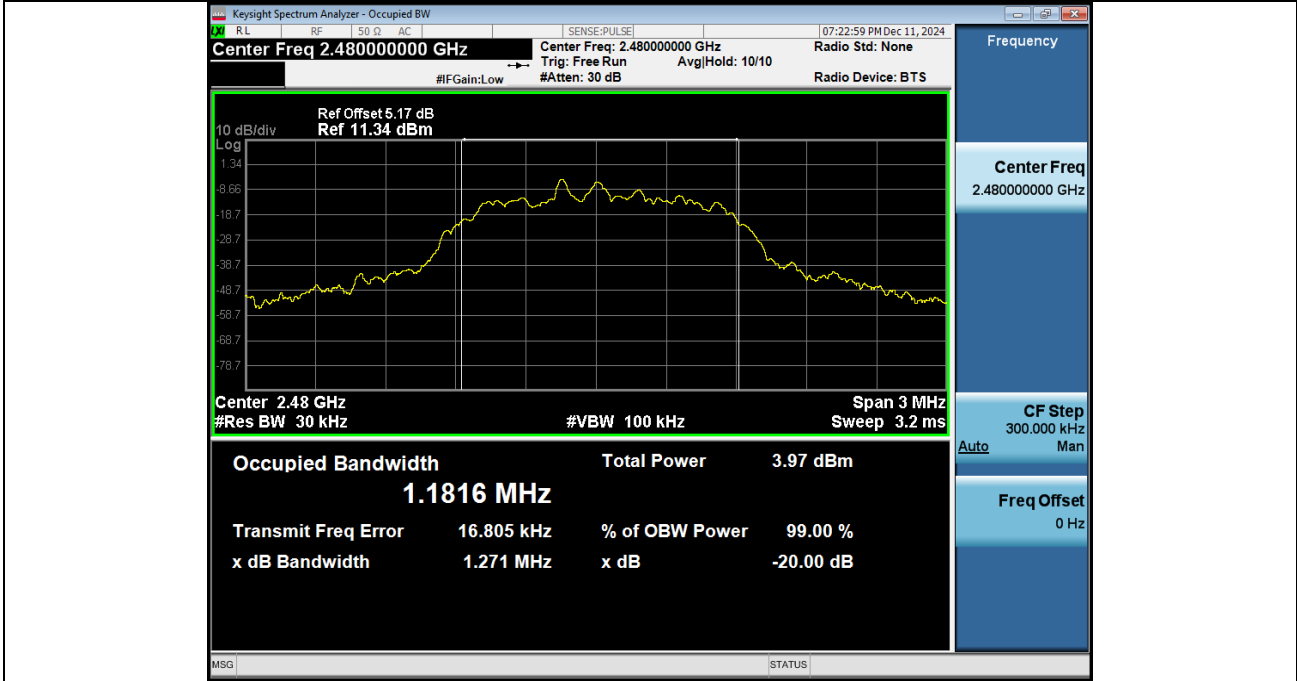
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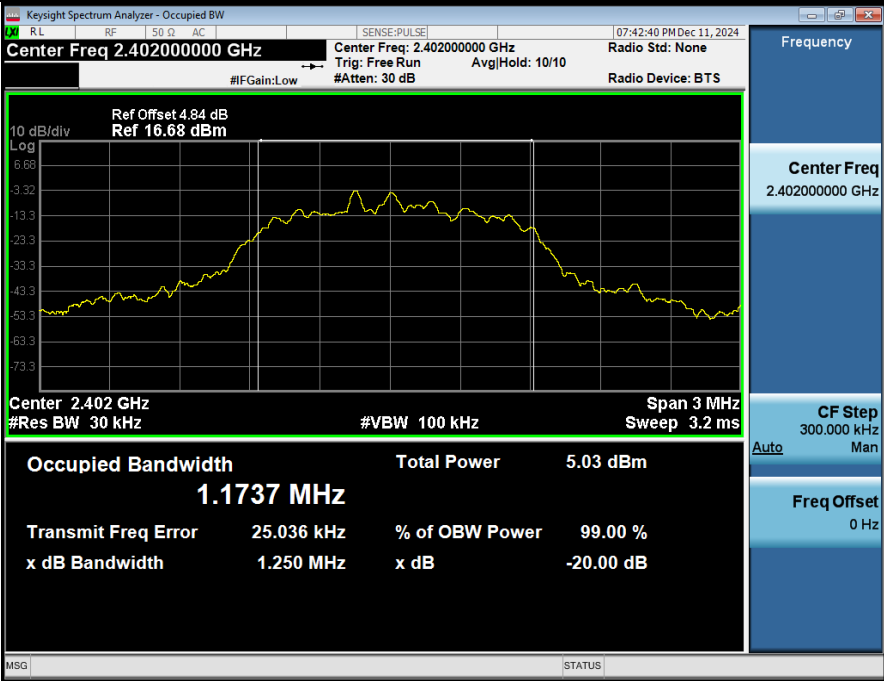
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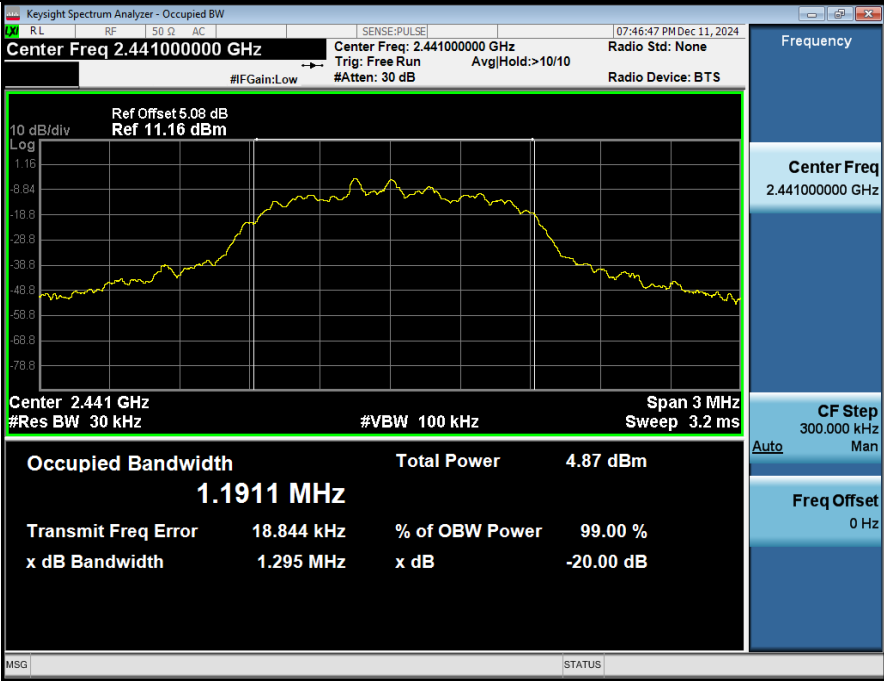
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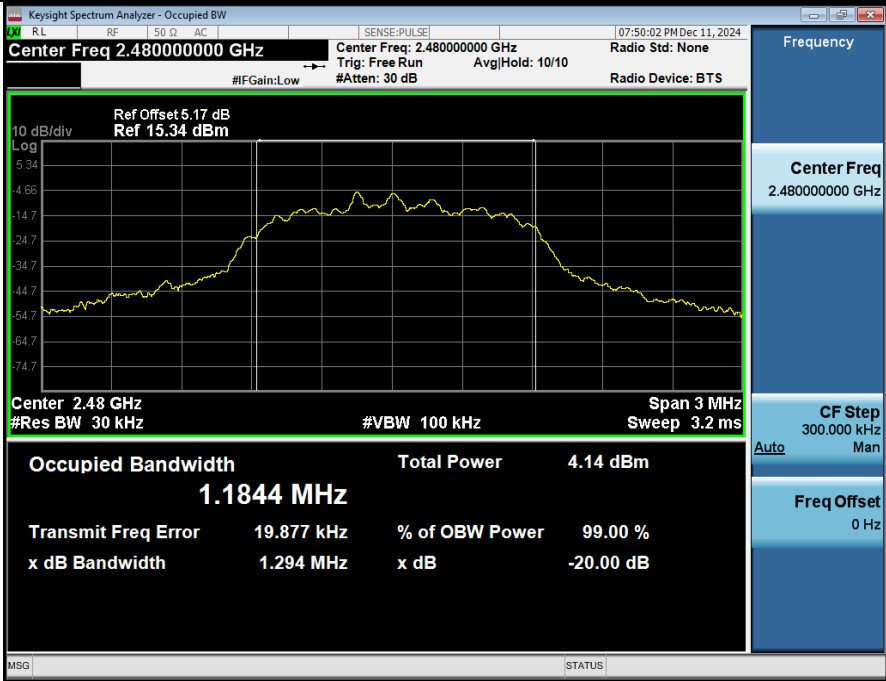
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-20dB_Bandwidth_NVNT_ANT1_3-DH1_2441_00



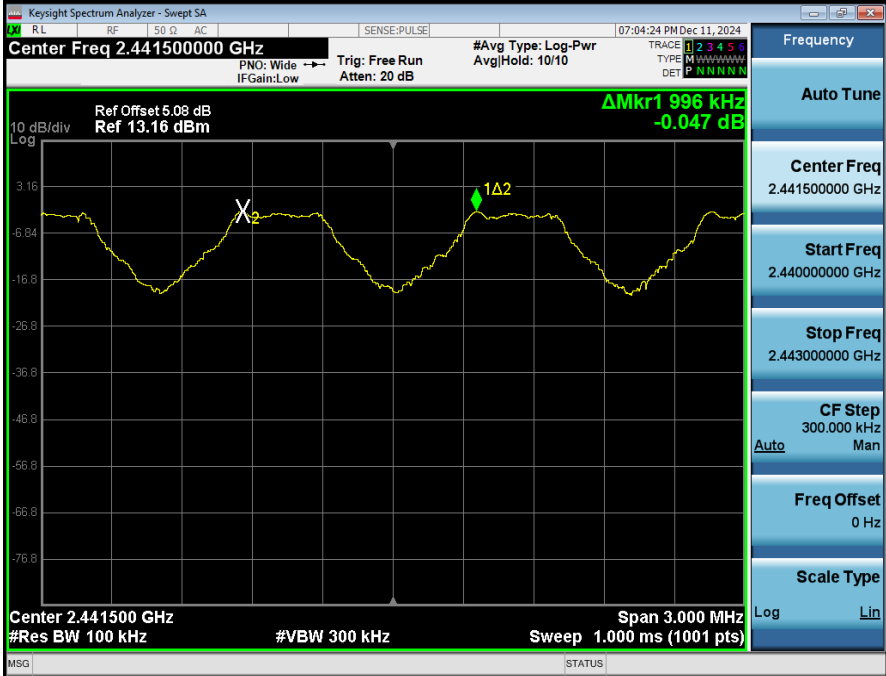
-20dB_Bandwidth_NVNT_ANT1_3-DH1_2480_00



Appendix A.3: Test Results of Carrier Frequency Separation

Condition	Antenna	Modulation	Frequency (MHz)	Hopping NO.0 (MHz)	Hopping NO.1 (MHz)	Carrier Frequencies Separation (MHz)	Limit (MHz)	Result
NVNT	ANT1	1-DH1	2441.00	2440.858	2441.854	1.00	0.670	Pass
NVNT	ANT1	2-DH1	2441.00	2440.849	2441.875	1.03	0.853	Pass
NVNT	ANT1	3-DH1	2441.00	2440.849	2442.004	1.16	0.863	Pass

Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH1_Hopping



Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_2-DH1_Hopping



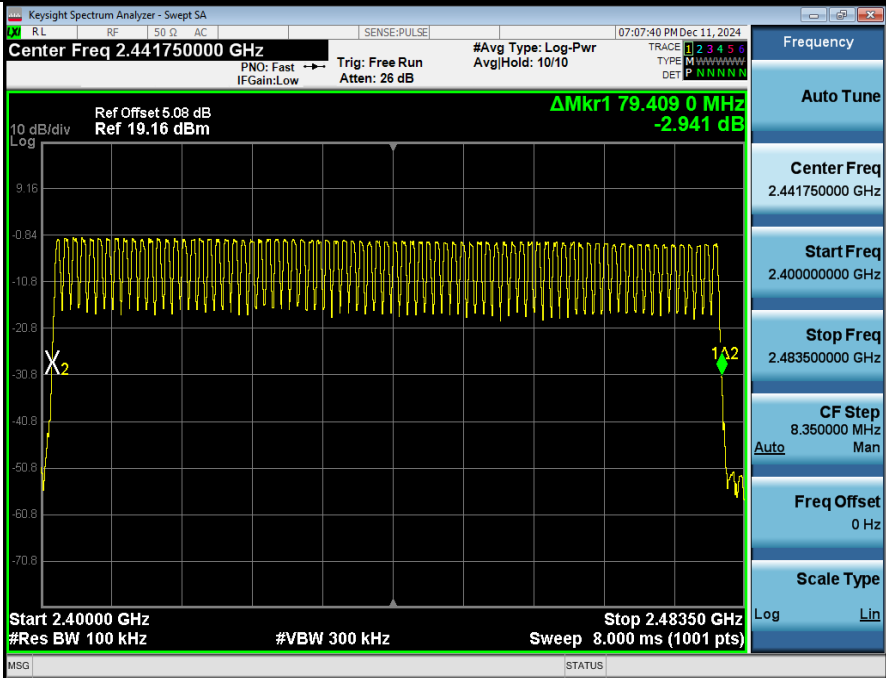
Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH1_Hopping



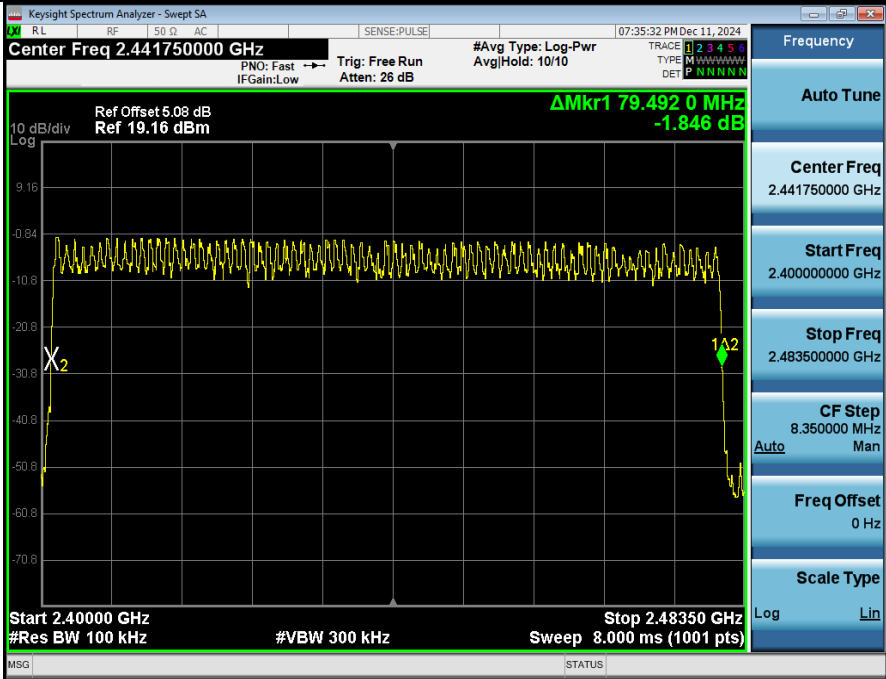
Appendix A.4: Test Results of Number of Hopping Frequency

Condition	Antenna	Modulation	Hopping Num	Limit	Result
NVNT	ANT1	1-DH1	79	15	Pass
NVNT	ANT1	2-DH1	79	15	Pass
NVNT	ANT1	3-DH1	79	15	Pass

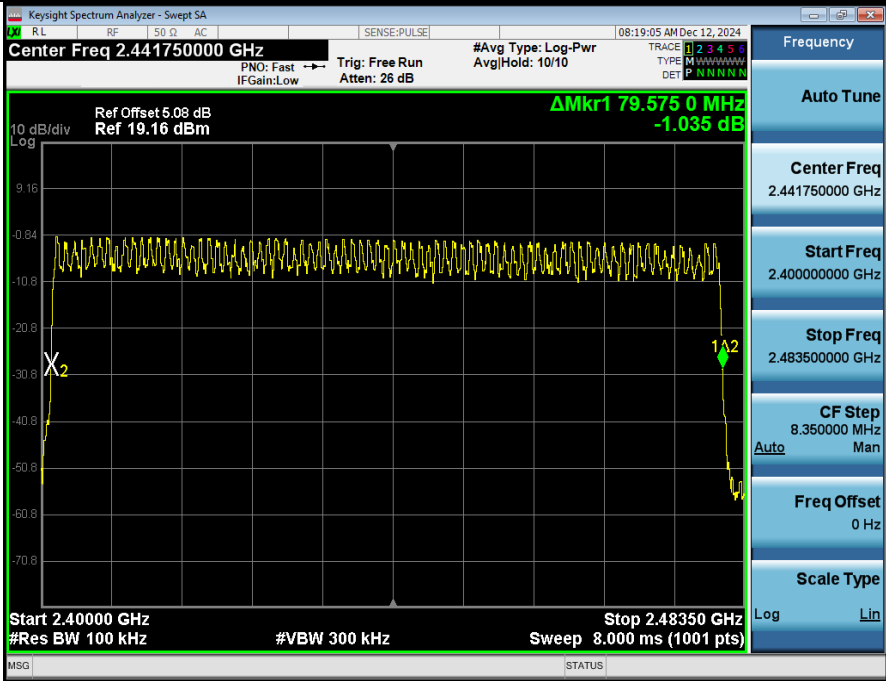
Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_1-DH1_Hopping



Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_2-DH1_Hopping



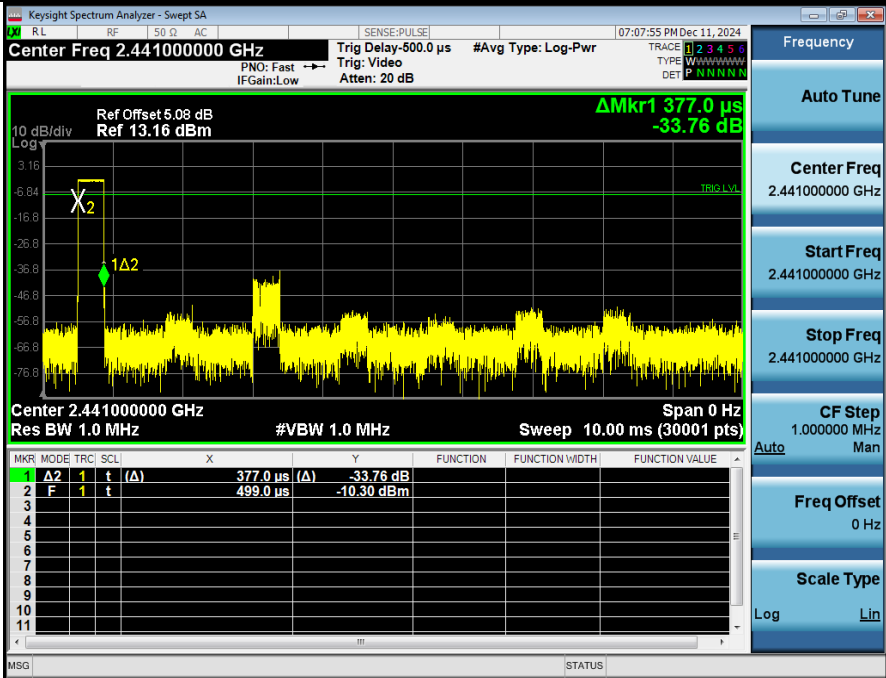
Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_3-DH1_Hopping



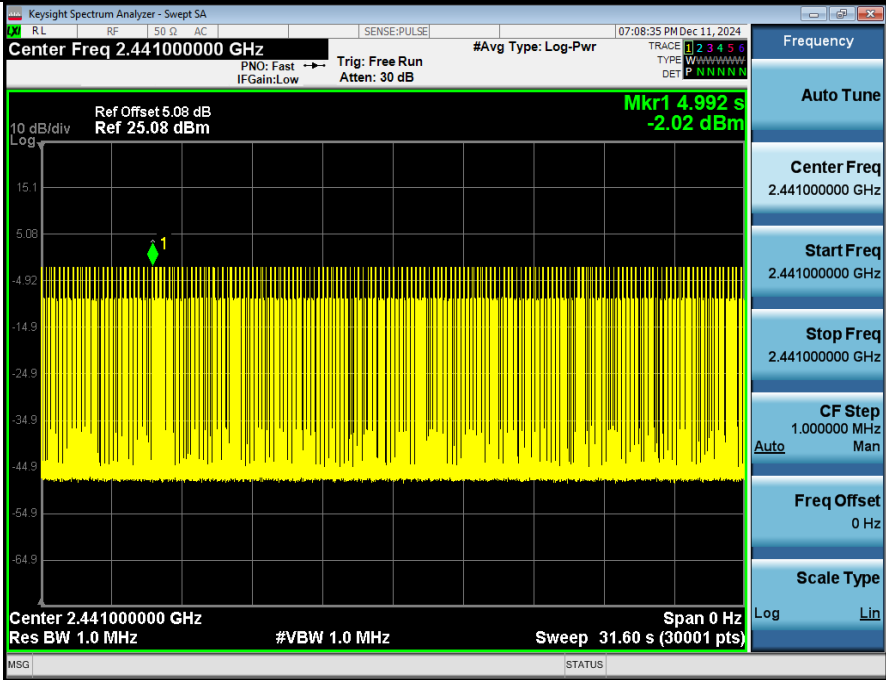
Appendix A.5: Test Results of Time of Occupancy

Condition	Antenna	Packet Type	Pulse Time(ms)	Hops	Dwell Time(ms)	Limit(s)	Result
NVNT	ANT1	1-DH1	0.377	320.00	120.640	0.40	Pass
NVNT	ANT1	2-DH1	0.377	319.00	120.263	0.40	Pass
NVNT	ANT1	3-DH1	0.388	320.00	124.160	0.40	Pass
NVNT	ANT1	1-DH3	1.633	158.00	258.014	0.40	Pass
NVNT	ANT1	1-DH5	2.881	108.00	311.148	0.40	Pass
NVNT	ANT1	2-DH3	1.633	165.00	269.445	0.40	Pass
NVNT	ANT1	2-DH5	2.881	111.00	319.791	0.40	Pass
NVNT	ANT1	3-DH3	1.638	156.00	255.528	0.40	Pass
NVNT	ANT1	3-DH5	2.881	99.00	285.219	0.40	Pass

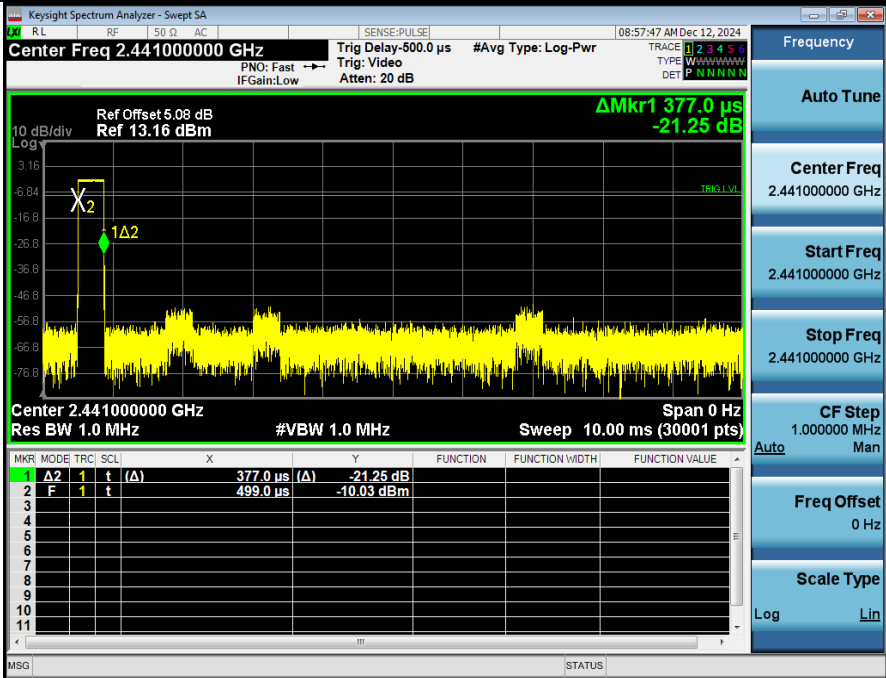
Dwell_Time_(Hopping)_NVNT_ANT1_1-DH1_2441_00_One_Burst_Time



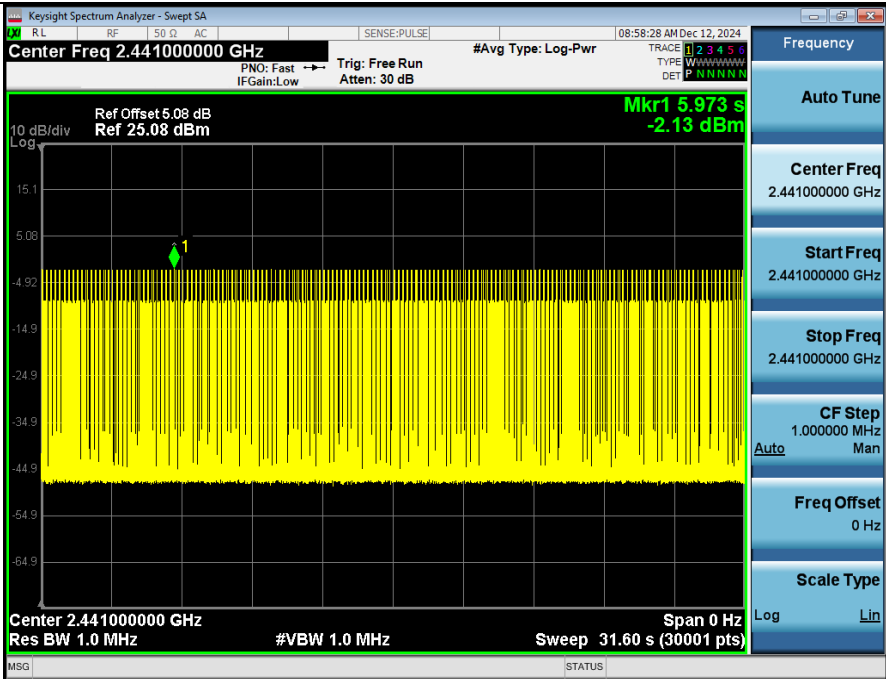
Dwell_Time_(Hopping)_NVNT_ANT1_1-DH1_2441_00_Accumulated



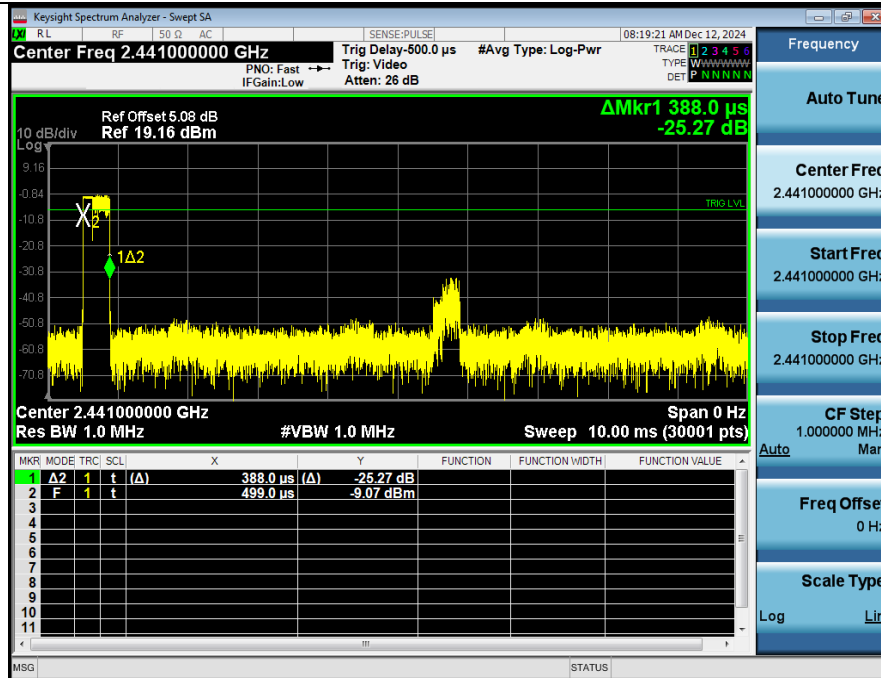
Dwell_Time_(Hopping)_NVNT_ANT1_2-DH1_2441_00_One_Burst_Time



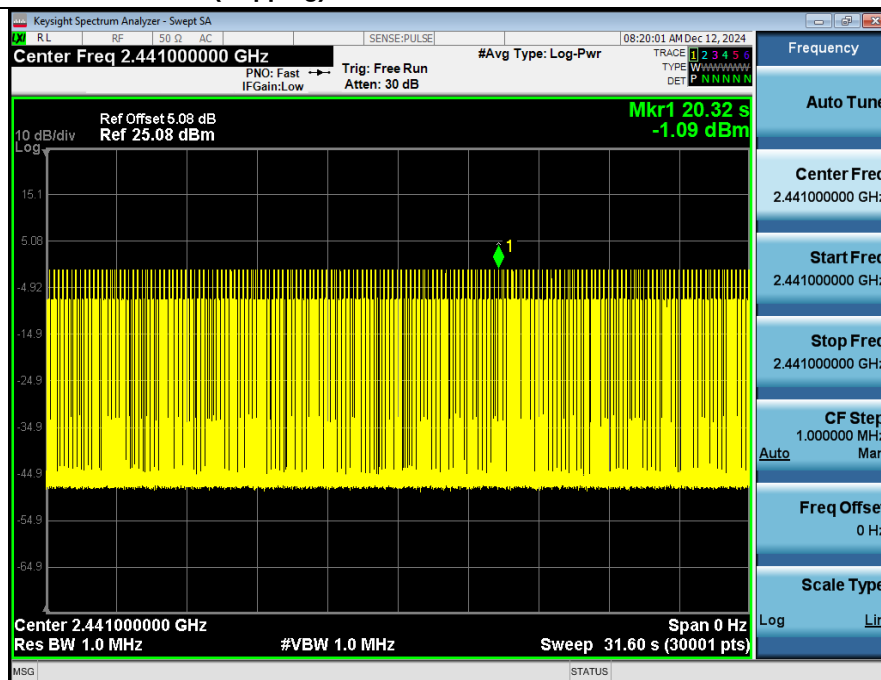
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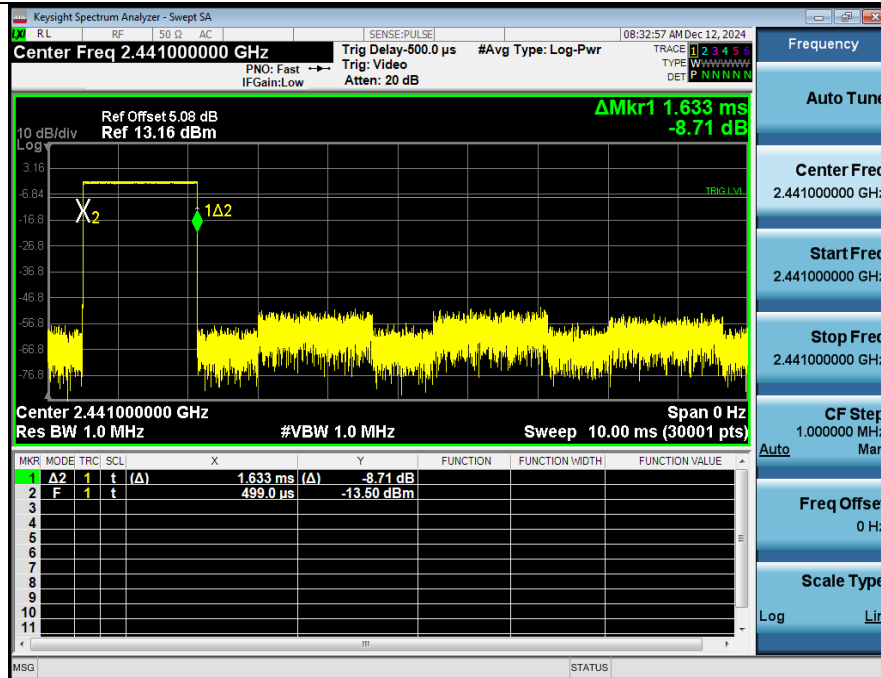
Dwell_Time_(Hopping)_NVNT_ANT1_3-DH1_2441_00_One_Burst_Time



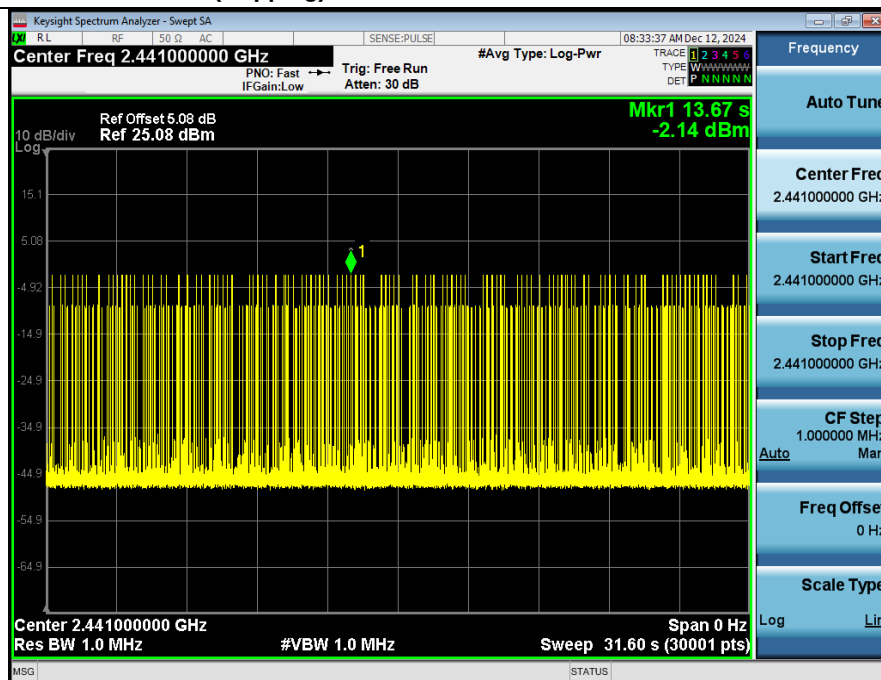
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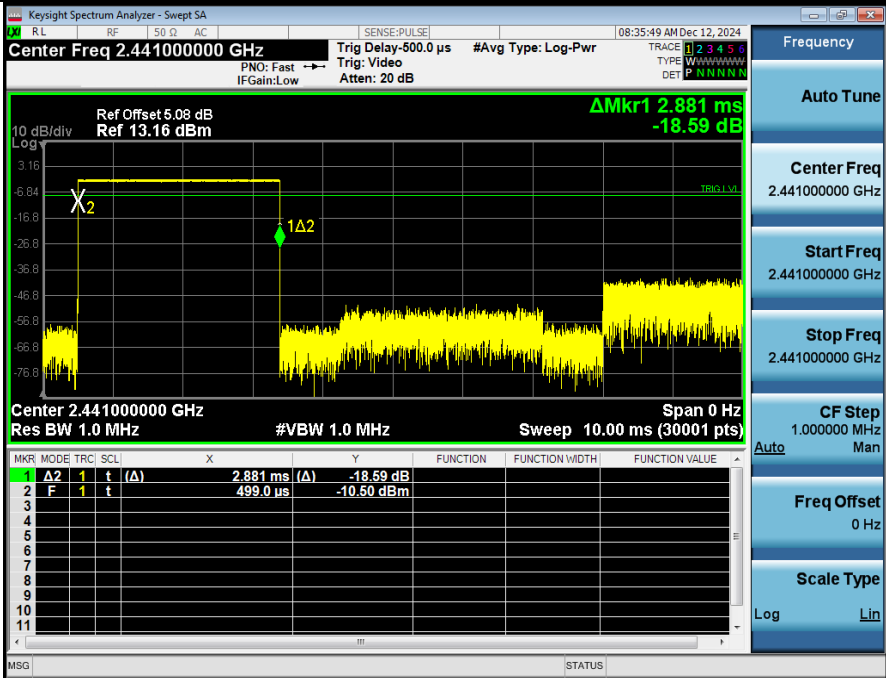
Dwell_Time_(Hopping)_NVNT_ANT1_1-DH3_2441_00_One_Burst_Time



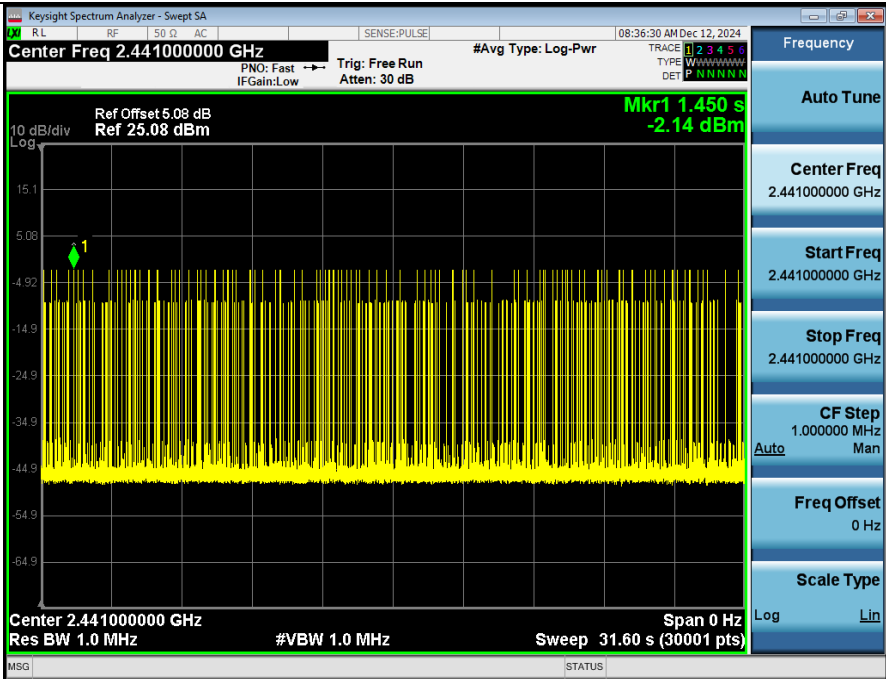
Dwell_Time_(Hopping)_NVNT_ANT1_1-DH3_2441_00_Accumulated



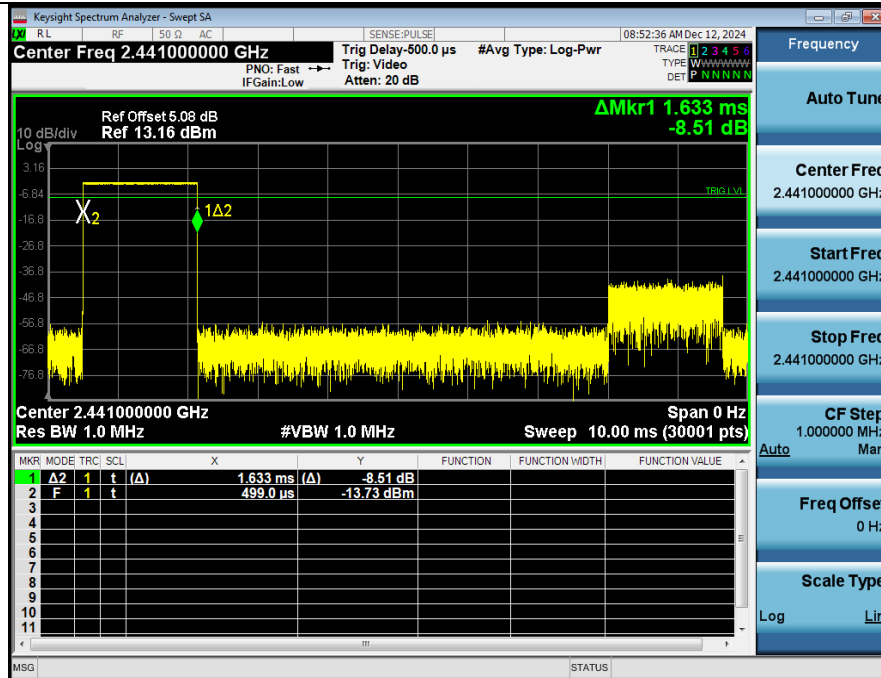
Dwell_Time_(Hopping)_NVNT_ANT1_1-DH5_2441_00_One_Burst_Time



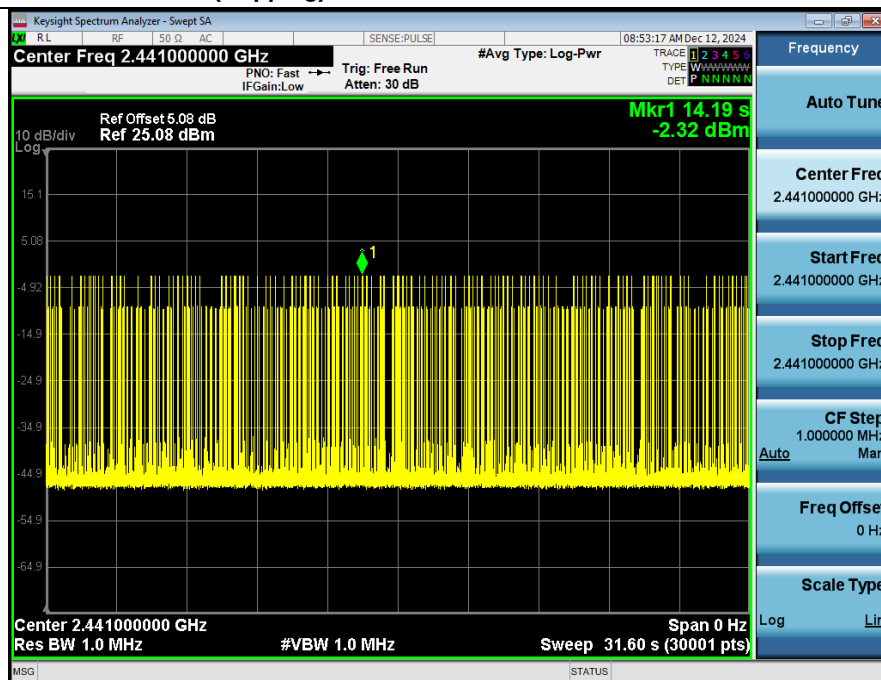
Dwell_Time_(Hopping)_NVNT_ANT1_1-DH5_2441_00_Accumulated



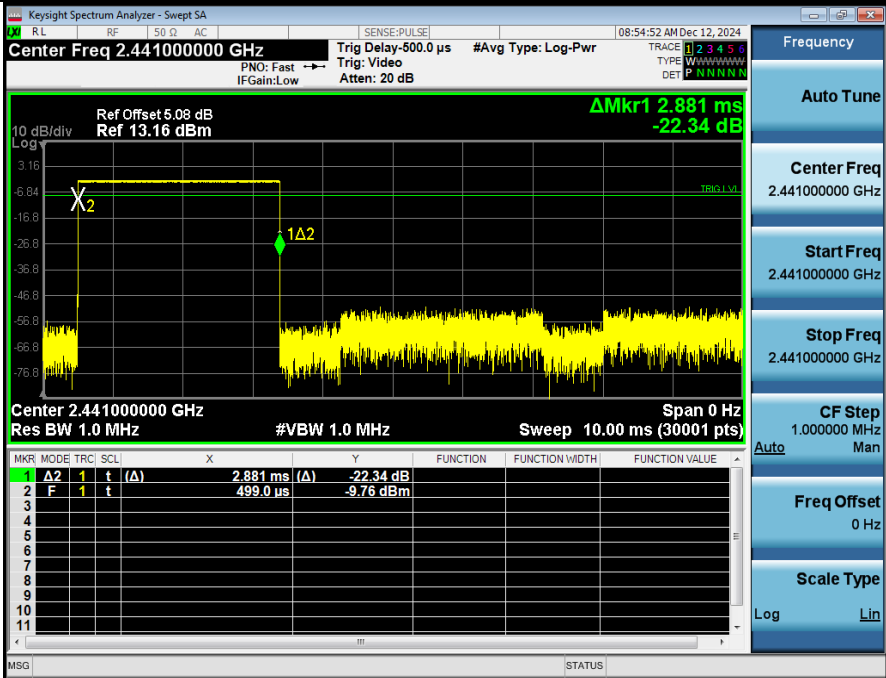
Dwell_Time_(Hopping)_NVNT_ANT1_2-DH3_2441_00_One_Burst_Time



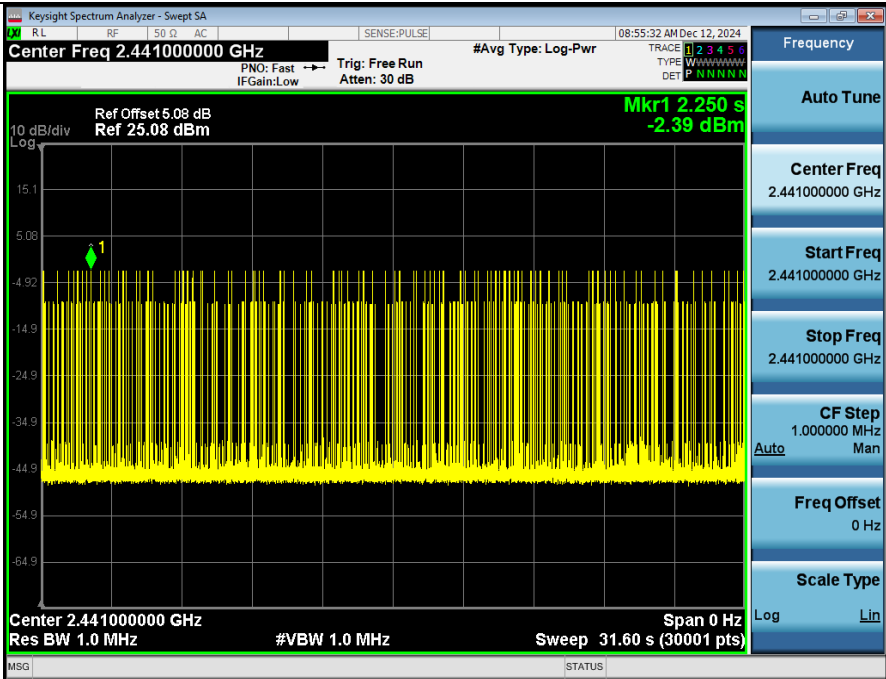
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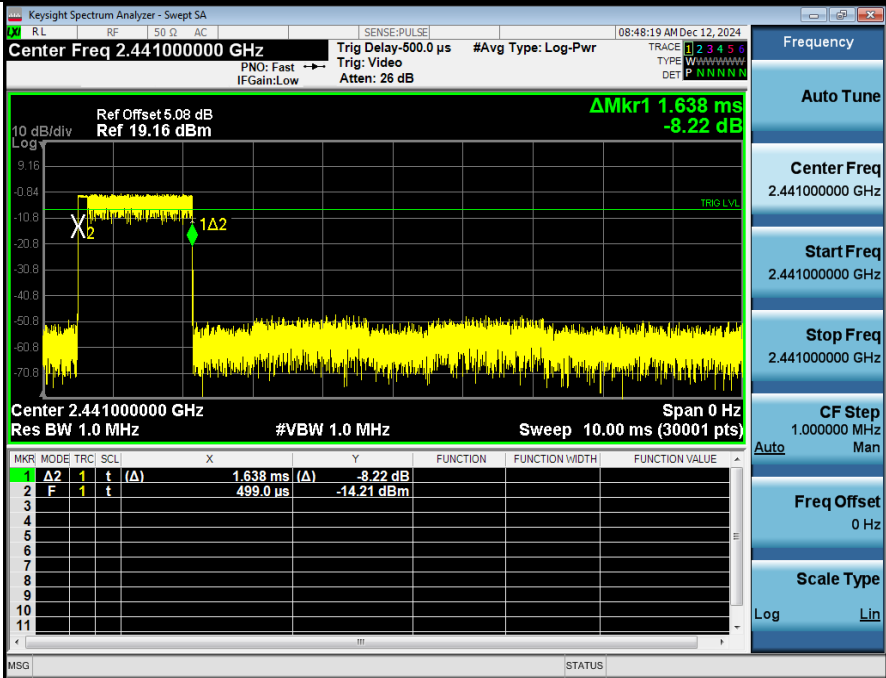
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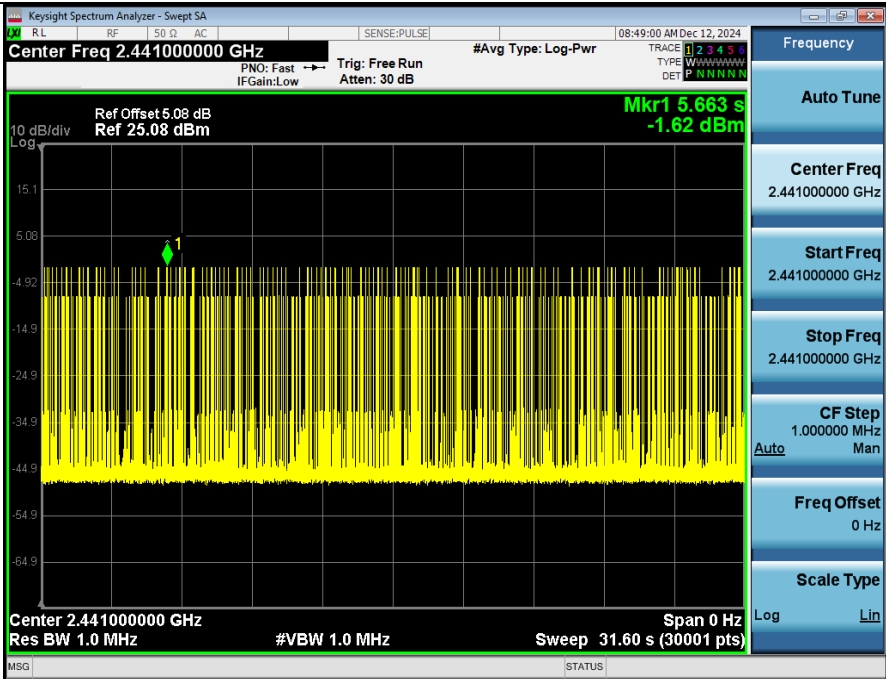
Dwell_Time_(Hopping)_NVNT_ANT1_2-DH5_2441_00_Accumulated



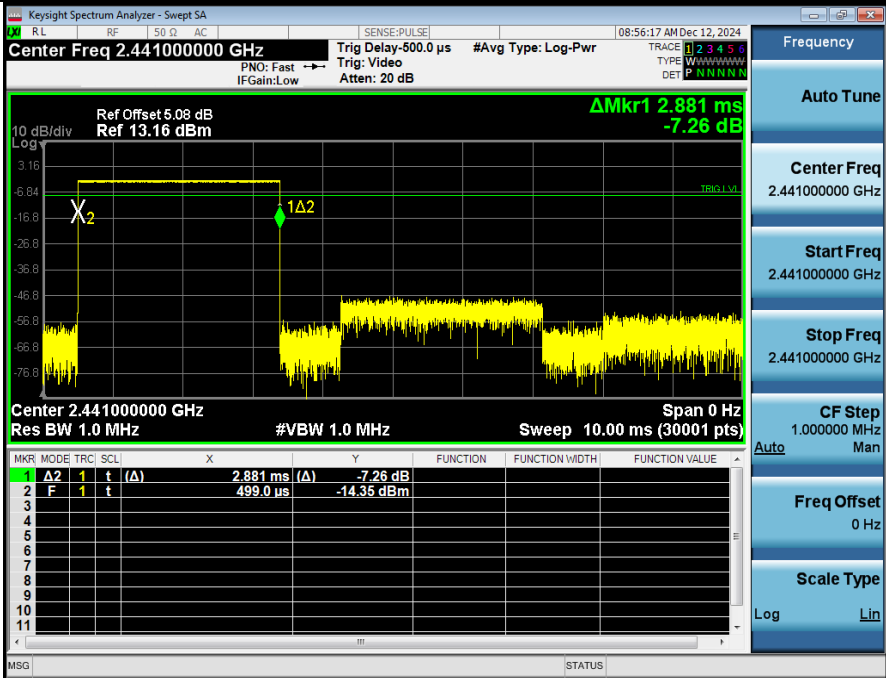
Dwell_Time_(Hopping)_NVNT_ANT1_3-DH3_2441_00_One_Burst_Time



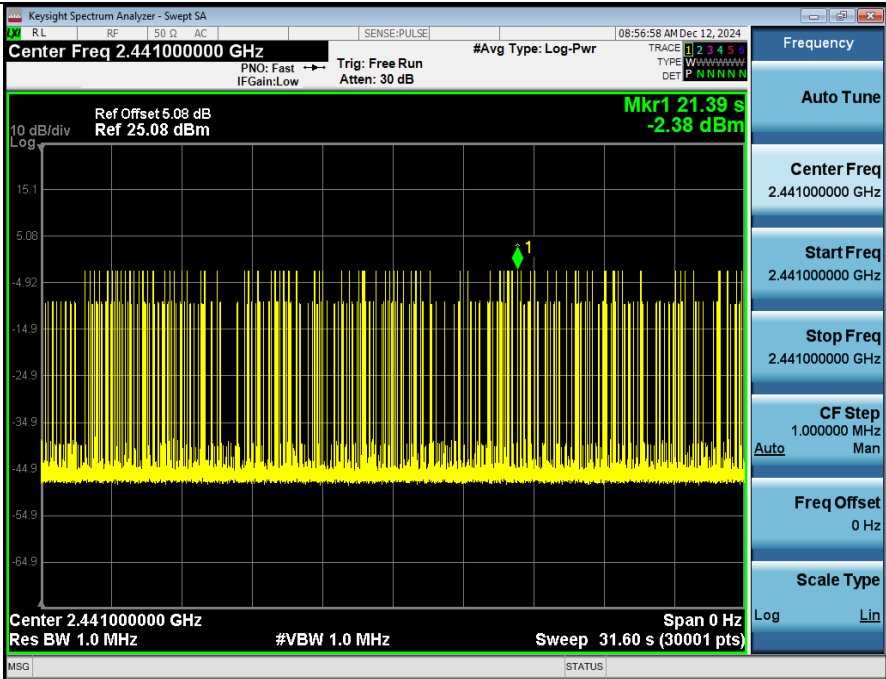
Dwell_Time_(Hopping)_NVNT_ANT1_3-DH3_2441_00_Accumulated



Dwell_Time_(Hopping)_NVNT_ANT1_3-DH5_2441_00_One_Burst_Time



Dwell_Time_(Hopping)_NVNT_ANT1_3-DH5_2441_00_Accumulated



Appendix A.6: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

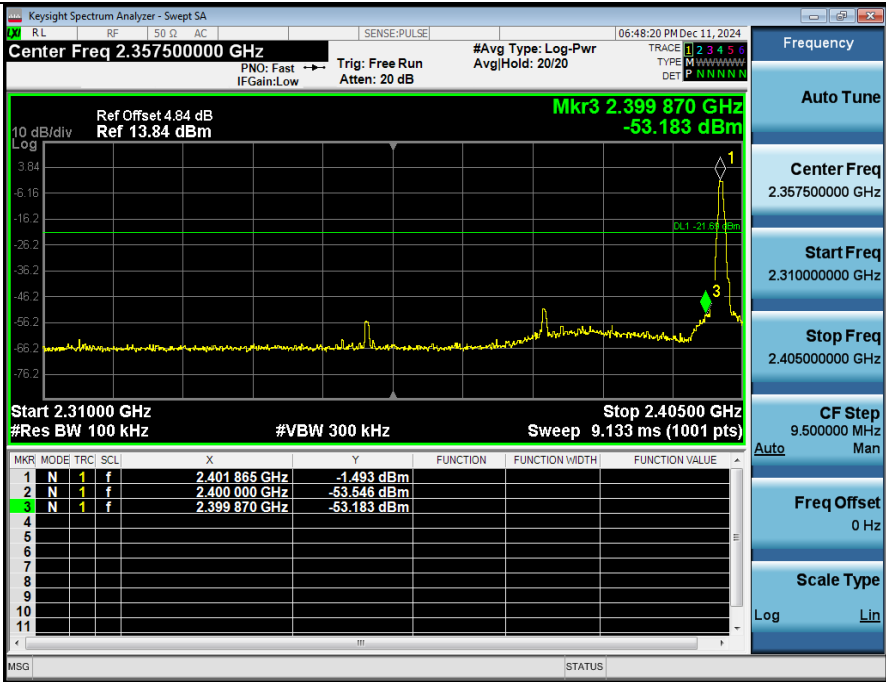
Band Edge

Condition	Antenna	Modulation	TX Mode	Ref_level (dBm)	Bandedge MAX.Value	Limit	Result
NVNT	ANT1	1-DH1	2402.00	-1.688	-53.183	-21.688	Pass
NVNT	ANT1	1-DH1	Hopping_LCH	-1.680	-51.050	-21.680	Pass
NVNT	ANT1	1-DH1	2480.00	-2.945	-59.425	-22.945	Pass
NVNT	ANT1	1-DH1	Hopping_HCH	-1.274	-51.628	-21.274	Pass
NVNT	ANT1	2-DH1	2402.00	-1.644	-52.360	-21.644	Pass
NVNT	ANT1	2-DH1	Hopping_LCH	-1.857	-52.053	-21.857	Pass
NVNT	ANT1	2-DH1	2480.00	-2.962	-58.312	-22.962	Pass
NVNT	ANT1	2-DH1	Hopping_HCH	-1.455	-52.513	-21.455	Pass
NVNT	ANT1	3-DH1	2402.00	-1.700	-54.310	-21.700	Pass
NVNT	ANT1	3-DH1	Hopping_LCH	-1.558	-50.531	-21.558	Pass
NVNT	ANT1	3-DH1	2480.00	-3.101	-58.524	-23.101	Pass
NVNT	ANT1	3-DH1	Hopping_HCH	-0.985	-52.268	-20.985	Pass

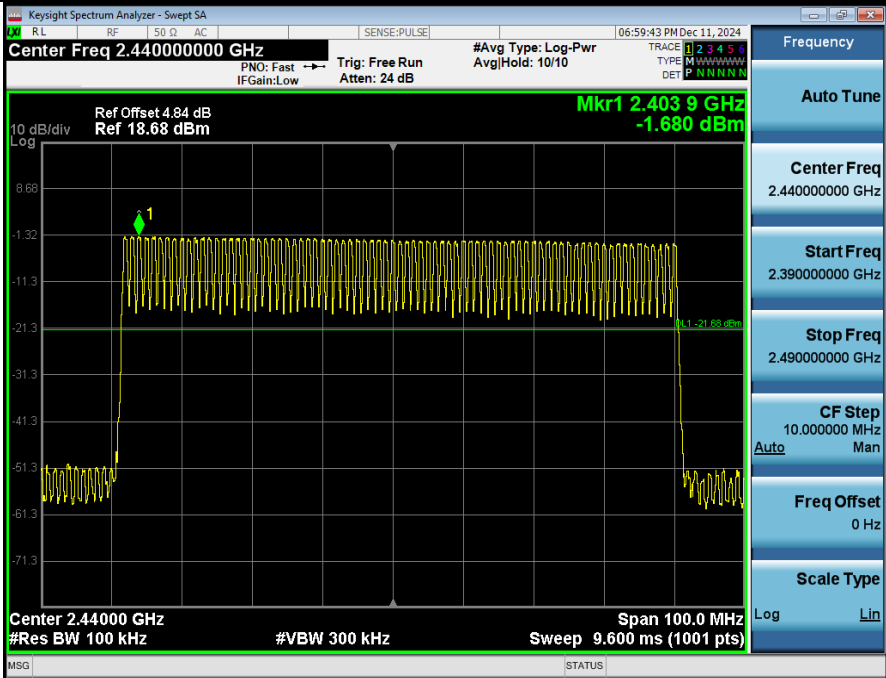
1_Reference_Level_NVNT_ANT1_1-DH1_2402_00



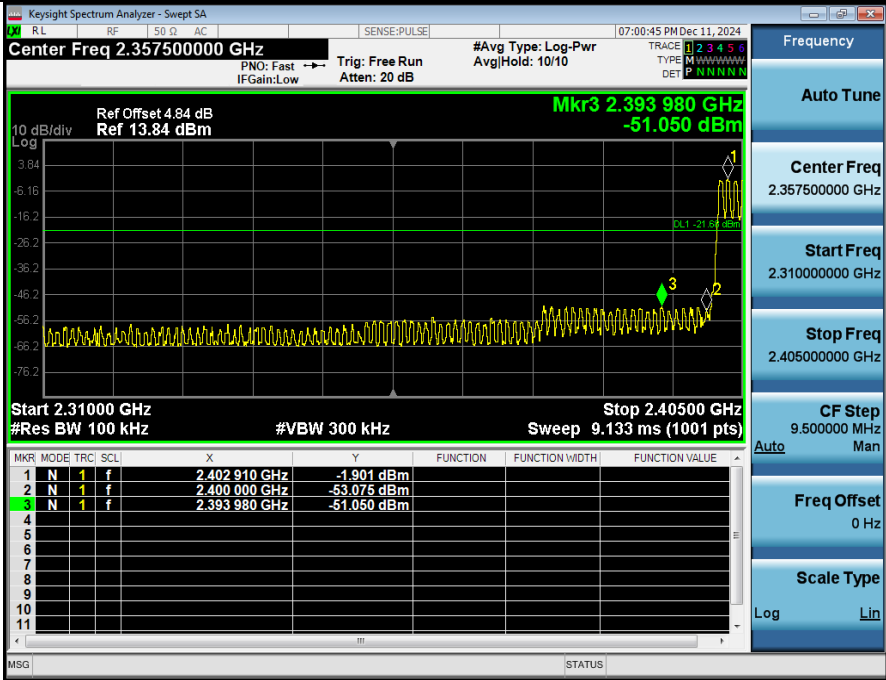
2_Bandedge_NVNT_ANT1_1-DH1_2402_00



1 Reference_Level_Hopping_NVNT_ANT1_1-DH1_Hopping



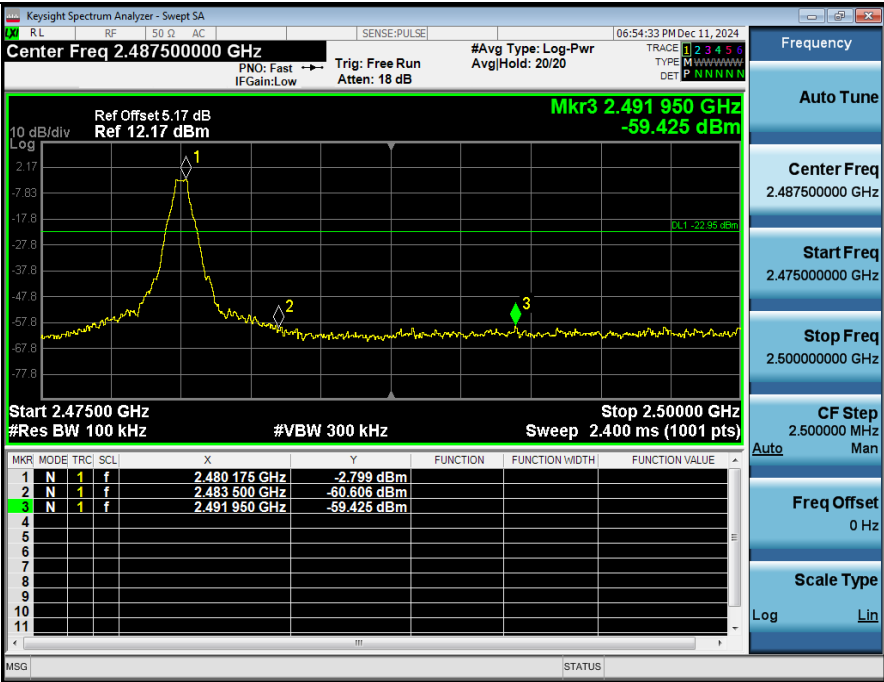
2 Band_Edge_(Hopping)_NVNT_ANT1_1-DH1_Hopping



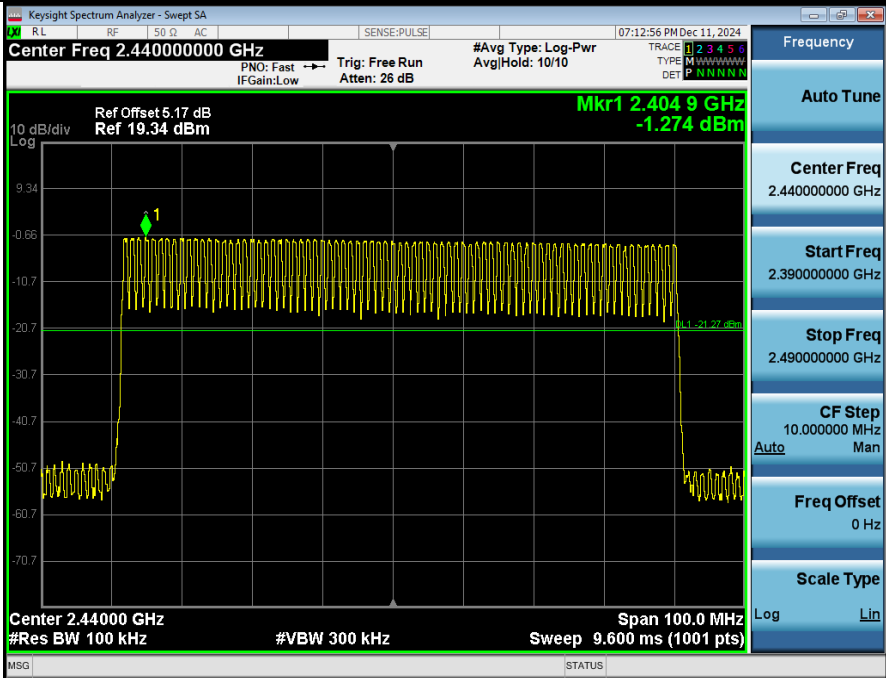
1_Reference_Level_NVNT_ANT1_1-DH1_2480_00



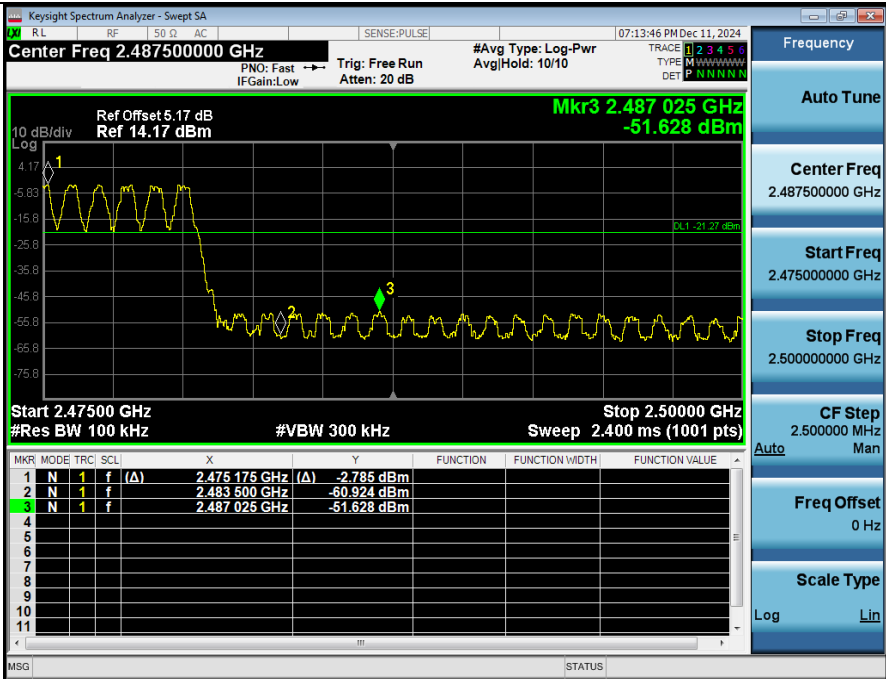
2_Bandedge_NVNT_ANT1_1-DH1_2480_00



1 Reference_Level_Hopping_NVNT_ANT1_1-DH1_Hopping



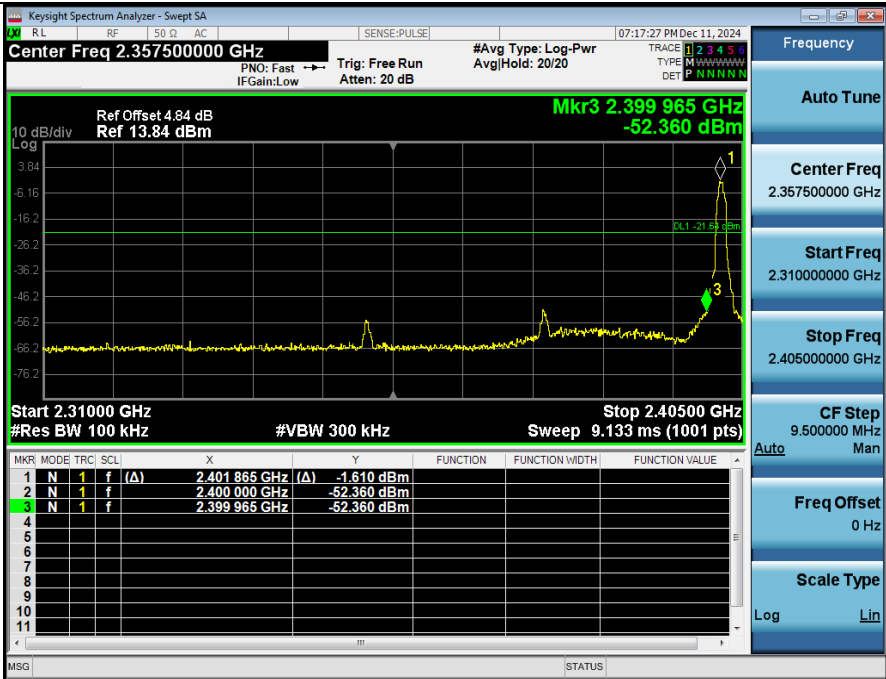
2 Band_Edge_(Hopping)_NVNT_ANT1_1-DH1_Hopping



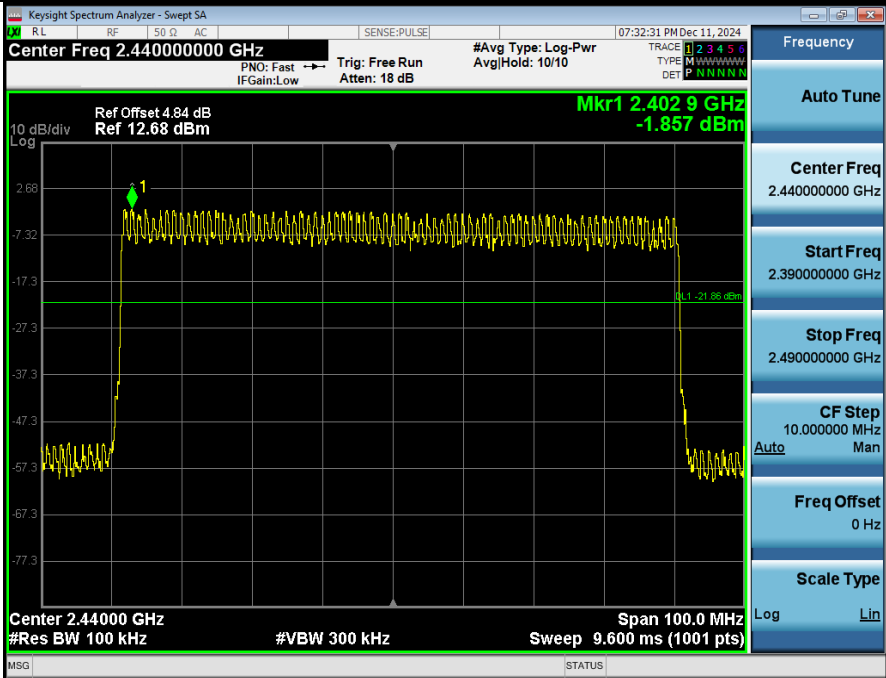
1_Reference_Level_NVNT_ANT1_2-DH1_2402_00



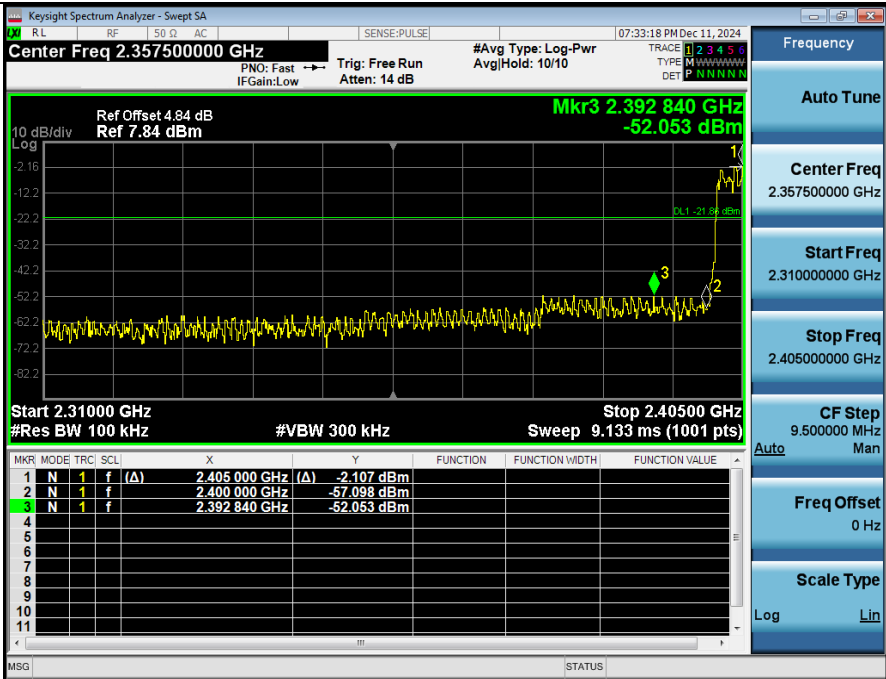
2_Bandedge_NVNT_ANT1_2-DH1_2402_00



1 Reference_Level_Hopping_NVNT_ANT1_2-DH1_Hopping



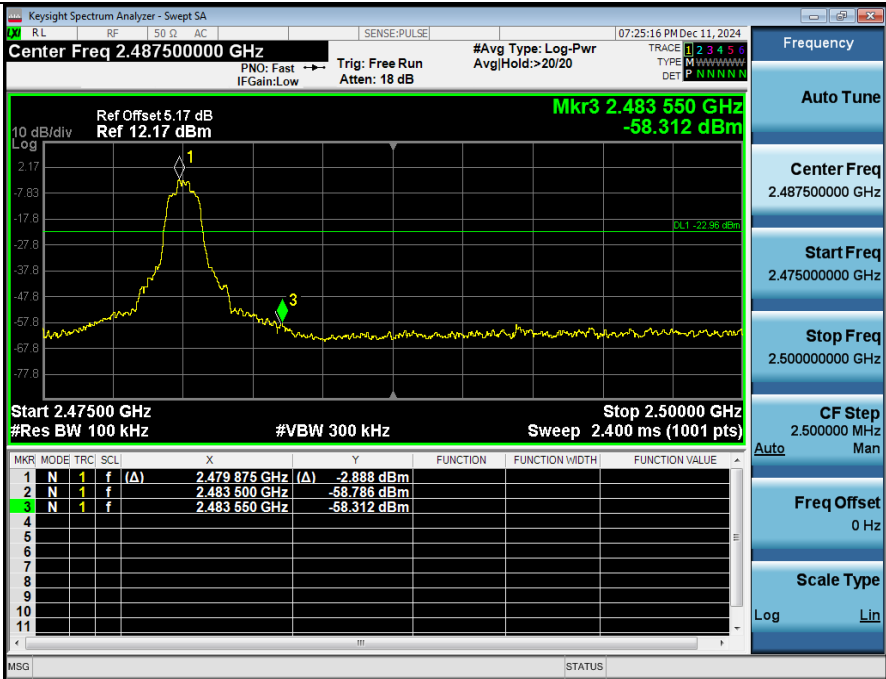
2 Band_Edge_(Hopping)_NVNT_ANT1_2-DH1_Hopping



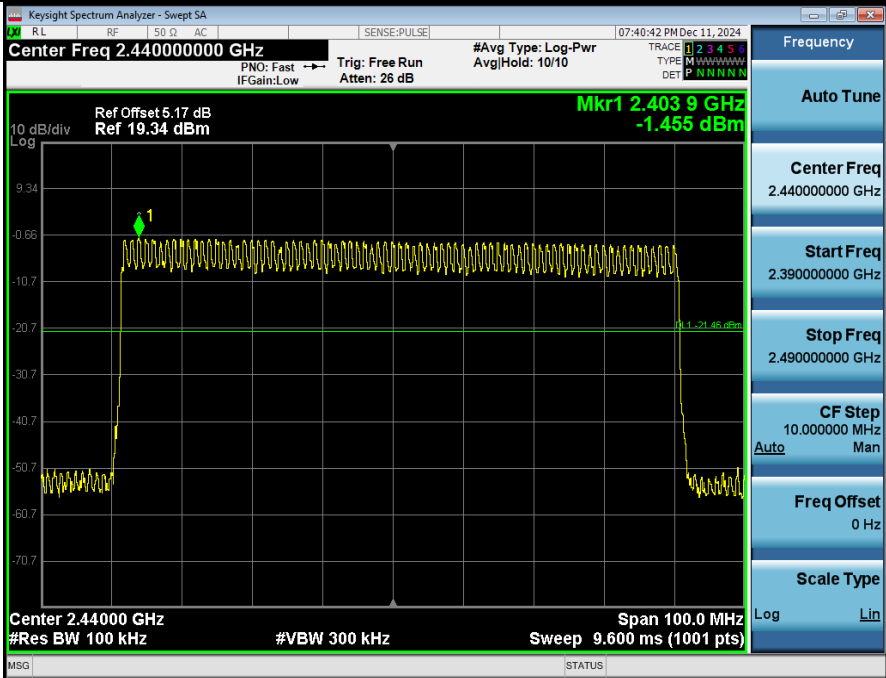
1_Reference_Level_NVNT_ANT1_2-DH1_2480_00



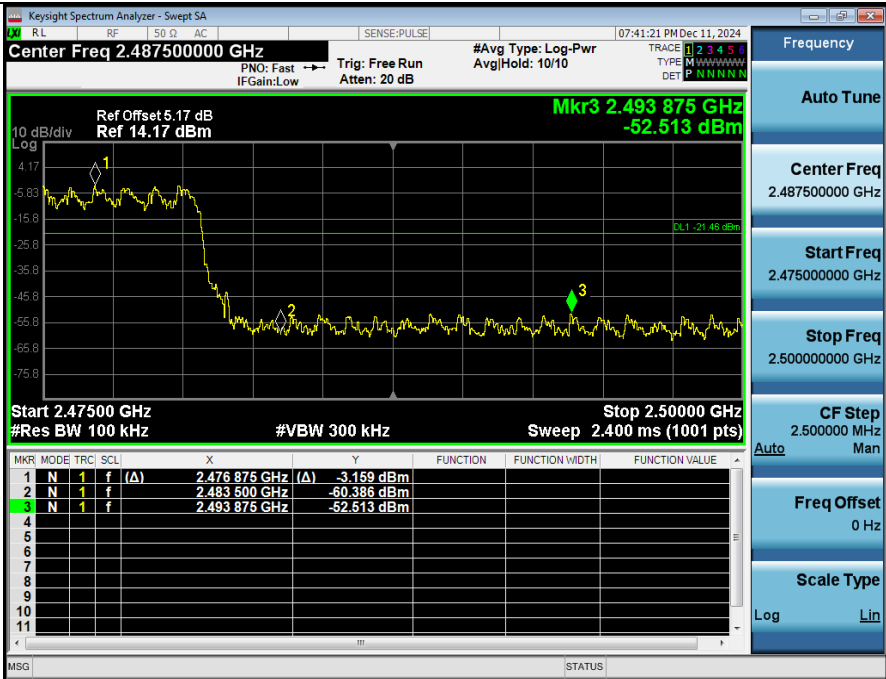
2_Bandedge_NVNT_ANT1_2-DH1_2480_00



1 Reference_Level_Hopping_NVNT_ANT1_2-DH1_Hopping



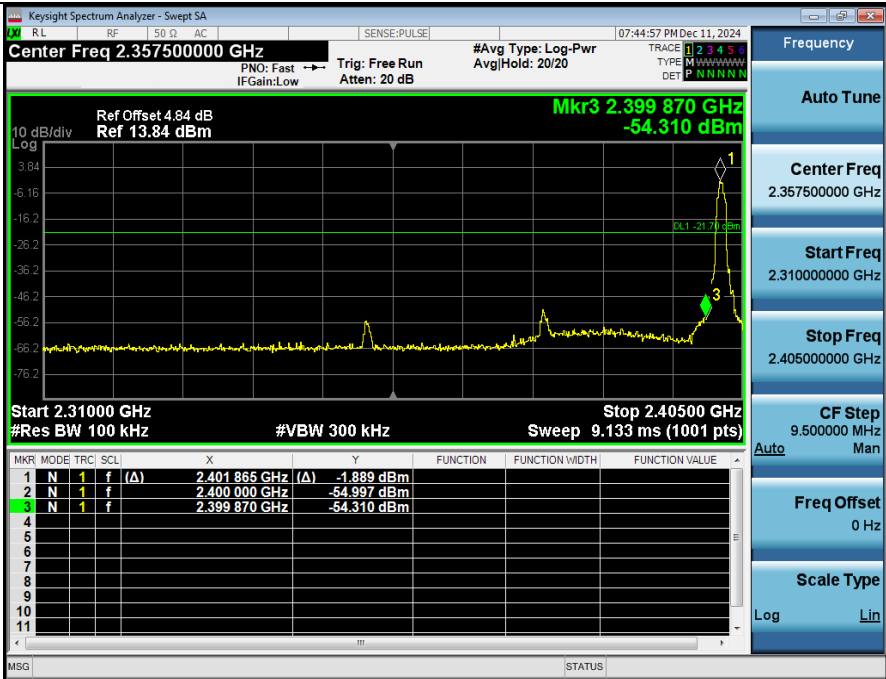
2 Band_Edge_(Hopping)_NVNT_ANT1_2-DH1_Hopping

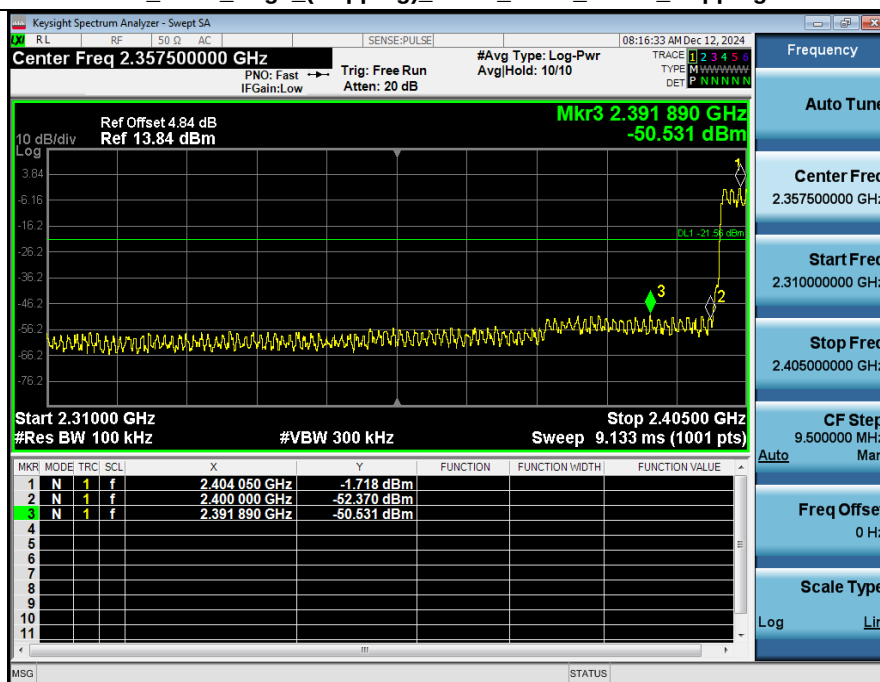
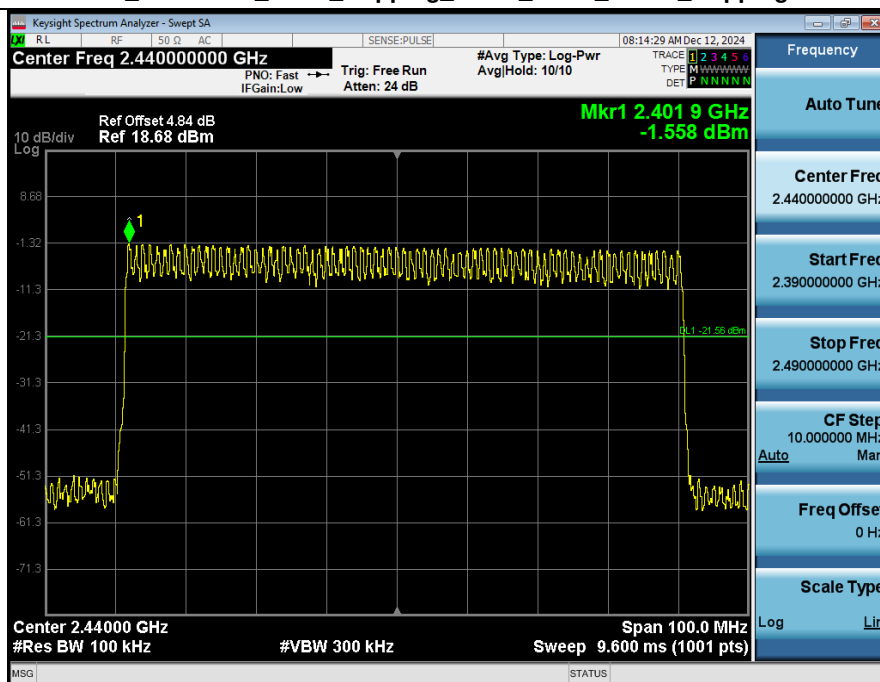


1_Reference_Level_NVNT_ANT1_3-DH1_2402_00



2_Bandedge_NVNT_ANT1_3-DH1_2402_00

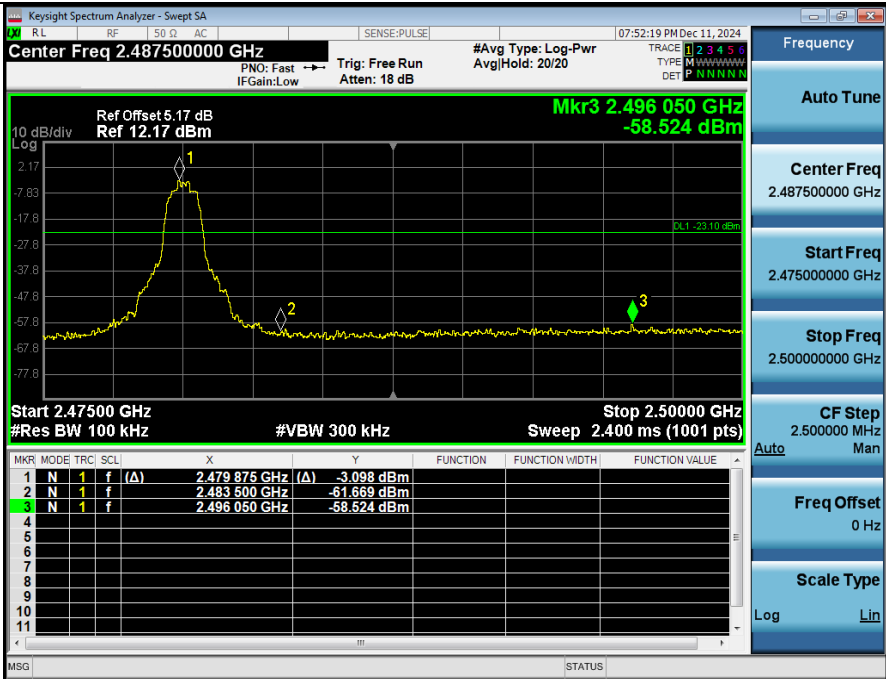




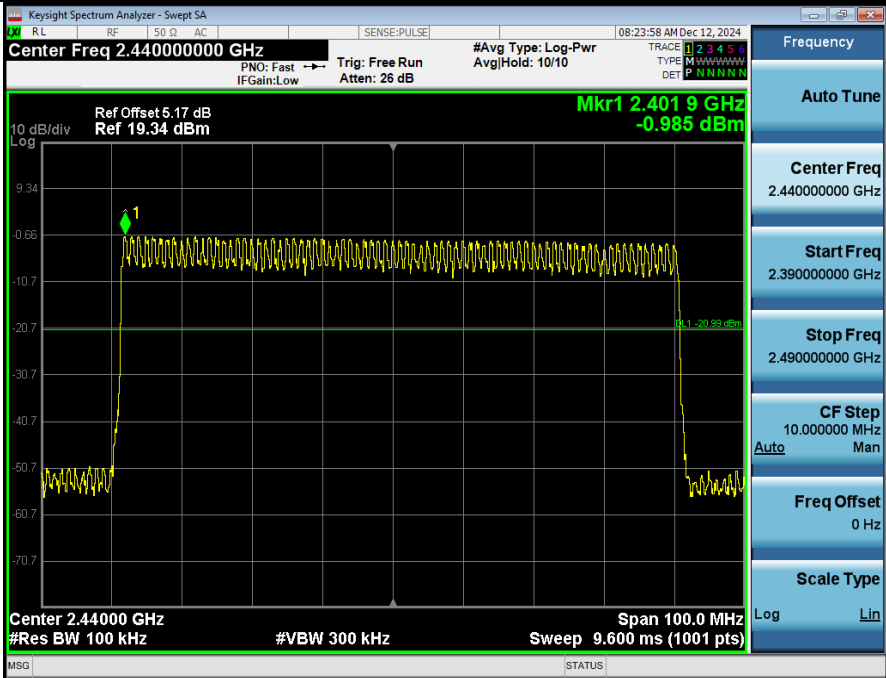
1_Reference_Level_NVNT_ANT1_3-DH1_2480_00



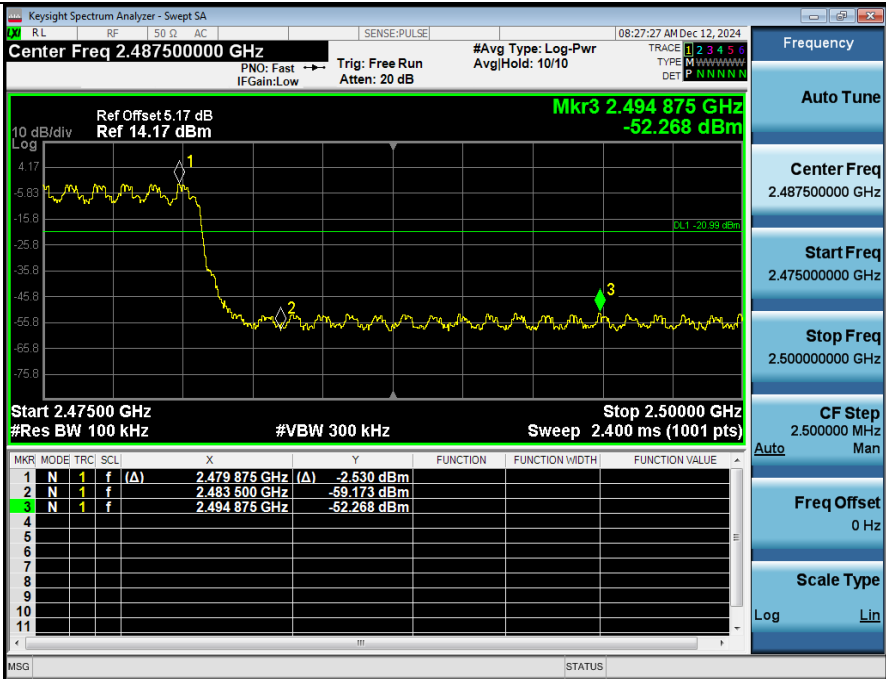
2_Bandedge_NVNT_ANT1_3-DH1_2480_00



1 Reference_Level_Hopping_NVNT_ANT1_3-DH1_Hopping



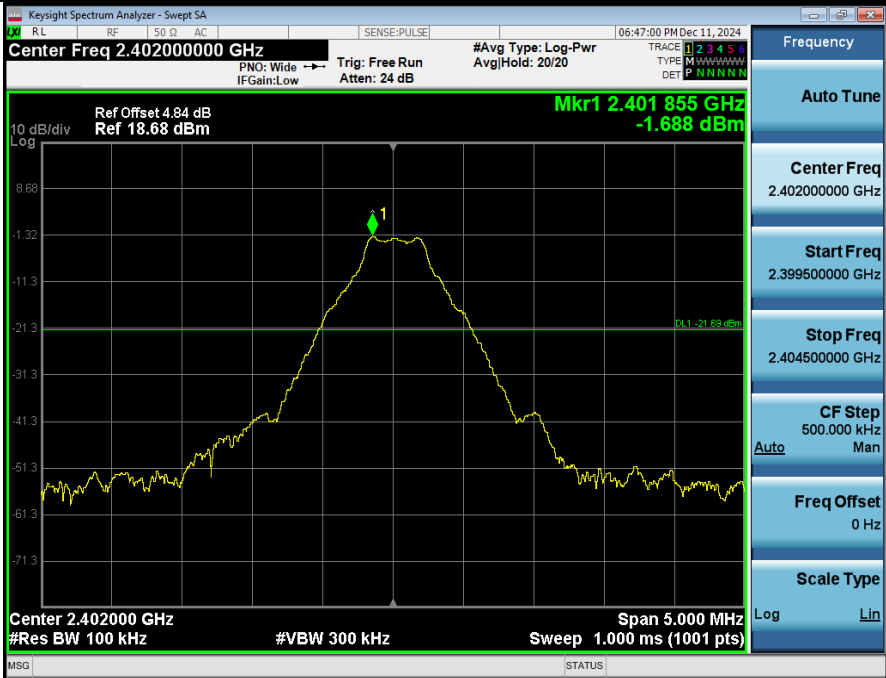
2 Band_Edge_(Hopping)_NVNT_ANT1_3-DH1_Hopping



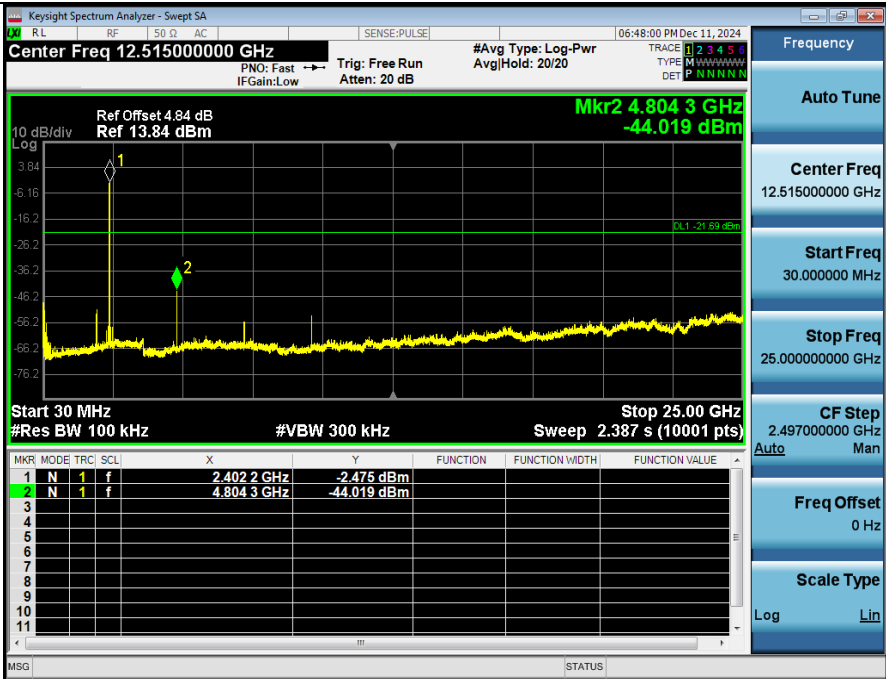
Conducted Spurious Emission

Condition	Antenna	Modulation	TX Mode	Ref_level (dBm)	Spurious MAX.Value (dBm)	Limit	Result
NVNT	ANT1	1-DH1	2402.00	-1.688	-44.019	-21.688	Pass
NVNT	ANT1	1-DH1	2441.00	-2.169	-45.609	-22.169	Pass
NVNT	ANT1	1-DH1	2480.00	-2.945	-39.643	-22.945	Pass
NVNT	ANT1	2-DH1	2402.00	-1.644	-44.144	-21.644	Pass
NVNT	ANT1	2-DH1	2441.00	-2.437	-44.312	-22.437	Pass
NVNT	ANT1	2-DH1	2480.00	-2.962	-44.613	-22.962	Pass
NVNT	ANT1	3-DH1	2402.00	-1.700	-41.043	-21.700	Pass
NVNT	ANT1	3-DH1	2441.00	-2.482	-44.814	-22.482	Pass
NVNT	ANT1	3-DH1	2480.00	-3.101	-44.136	-23.101	Pass

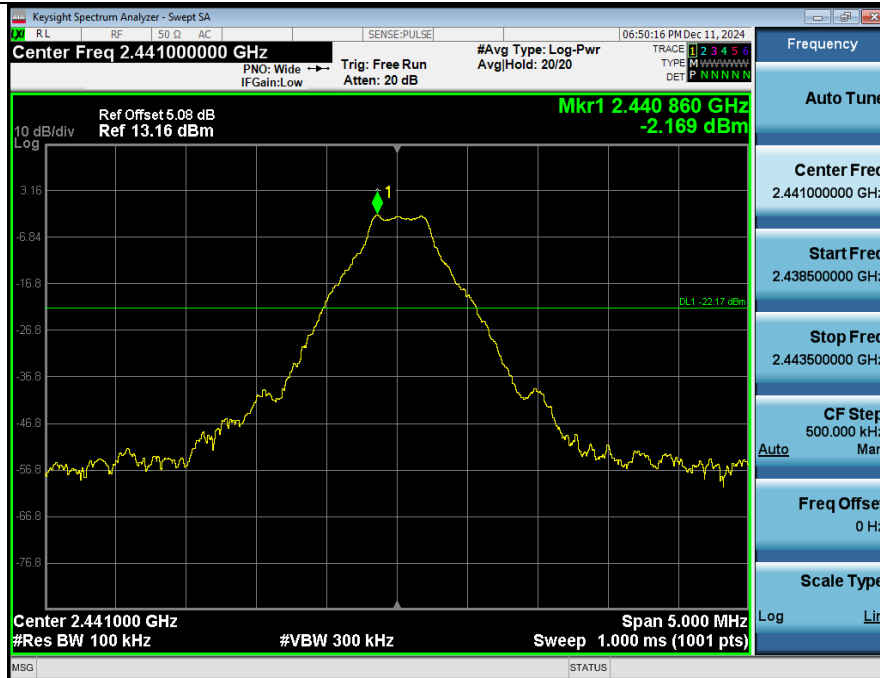
1_Reference_Level_NVNT_ANT1_1-DH1_2402_00



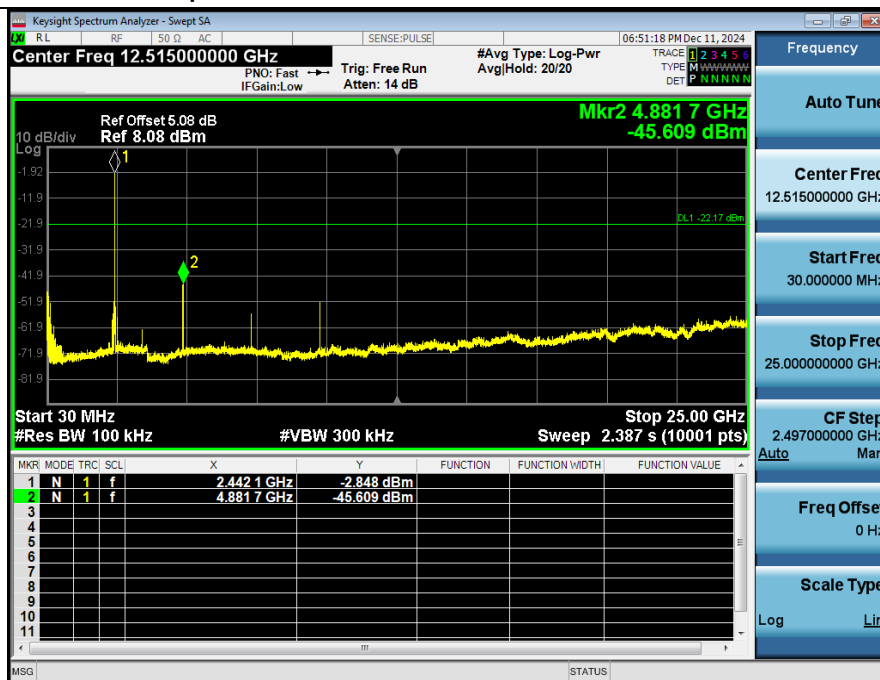
2_Spurious_Emissions_NVNT_ANT1_1-DH1_2402_00



1_Reference_Level_NVNT_ANT1_1-DH1_2441_00



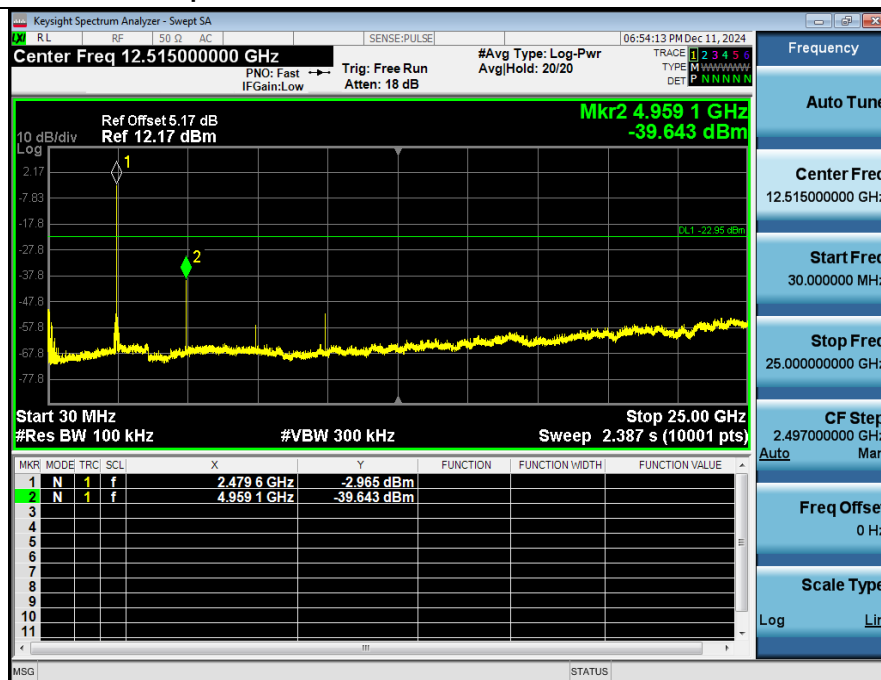
2_Spurious_Emissions_NVNT_ANT1_1-DH1_2441_00



1_Reference_Level_NVNT_ANT1_1-DH1_2480_00



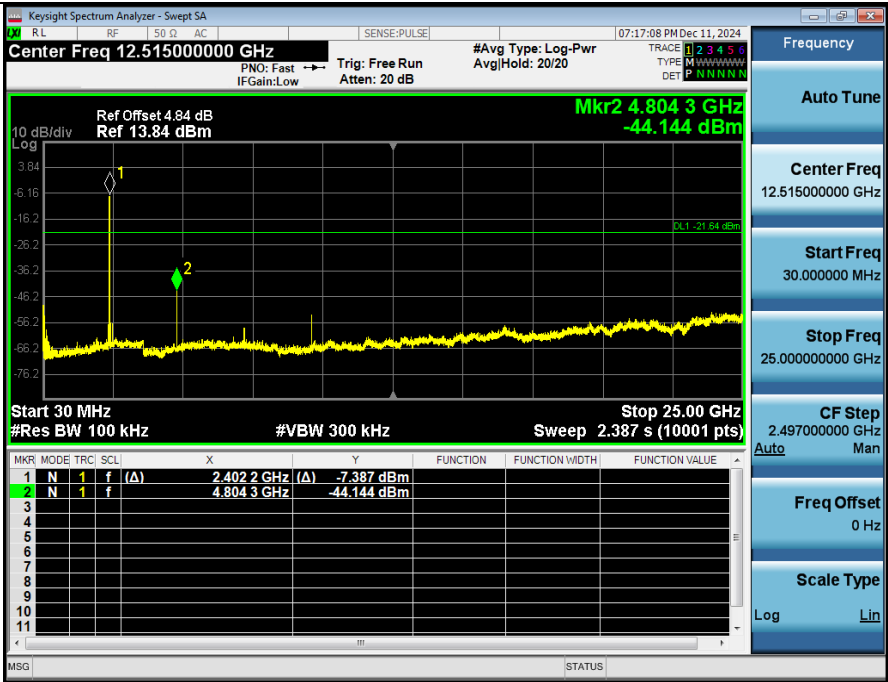
2_Spurious_Emissions_NVNT_ANT1_1-DH1_2480_00



1_Reference_Level_NVNT_ANT1_2-DH1_2402_00



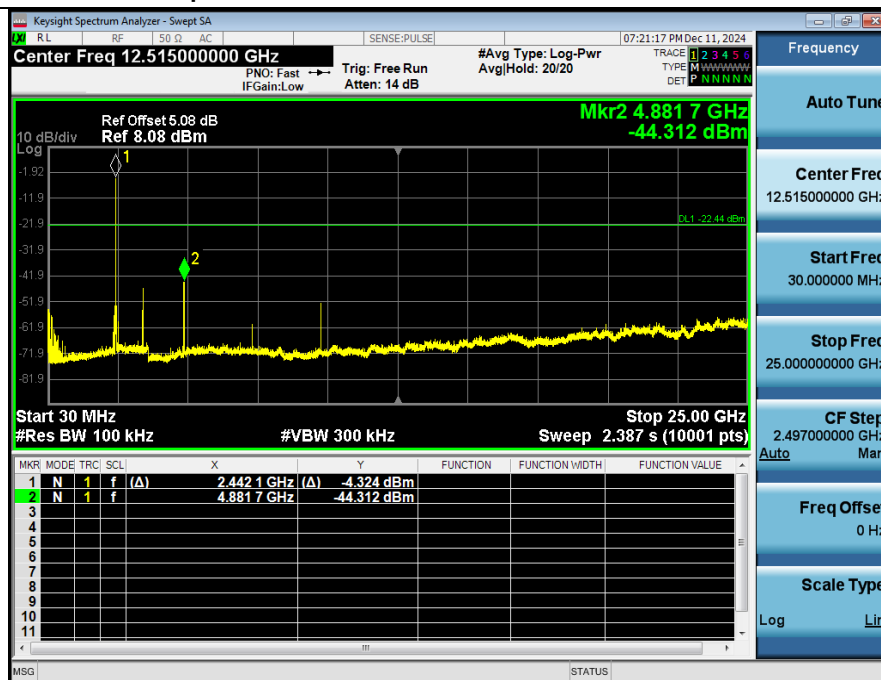
2_Spurious_Emissions_NVNT_ANT1_2-DH1_2402_00



1_Reference_Level_NVNT_ANT1_2-DH1_2441_00



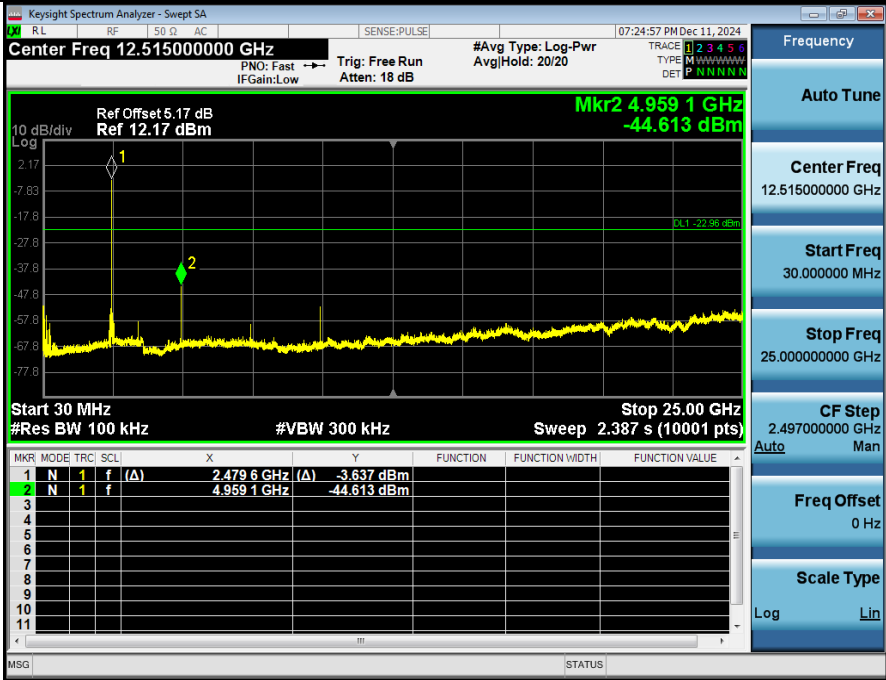
2_Spurious_Emissions_NVNT_ANT1_2-DH1_2441_00



1_Reference_Level_NVNT_ANT1_2-DH1_2480_00



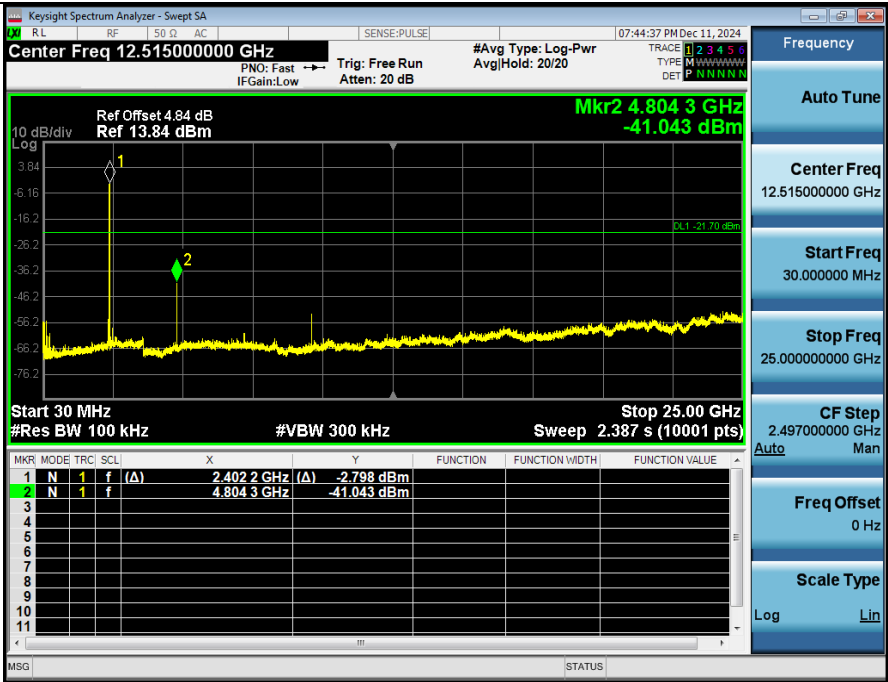
2_Spurious_Emissions_NVNT_ANT1_2-DH1_2480_00



1_Reference_Level_NVNT_ANT1_3-DH1_2402_00



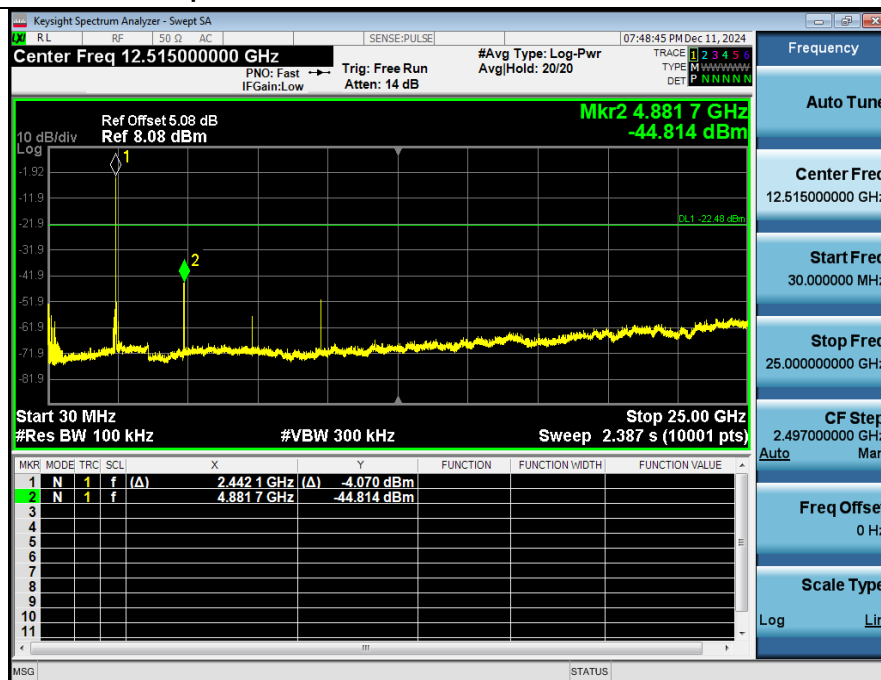
2_Spurious_Emissions_NVNT_ANT1_3-DH1_2402_00



1_Reference_Level_NVNT_ANT1_3-DH1_2441_00



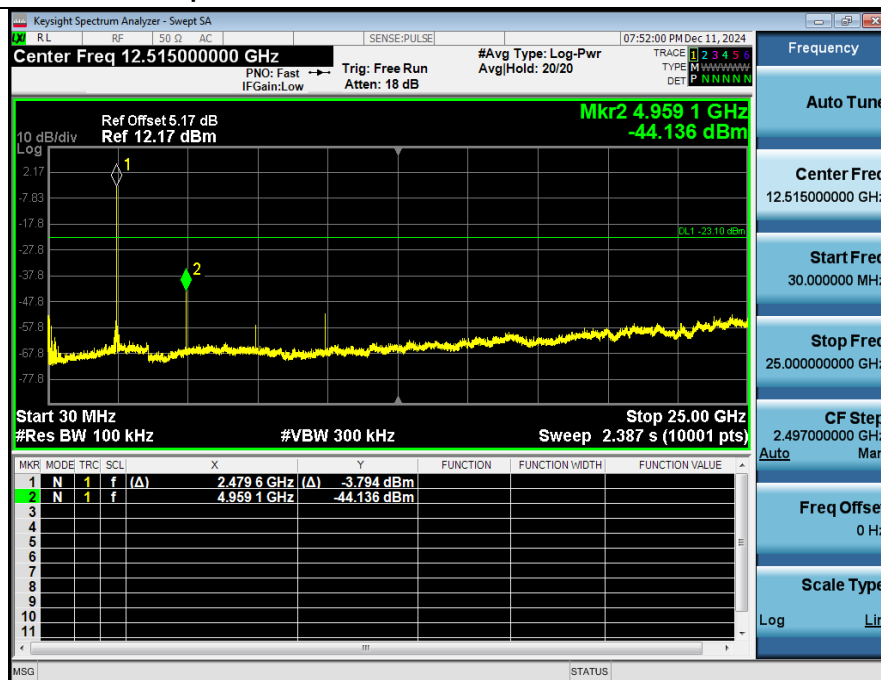
2_Spurious_Emissions_NVNT_ANT1_3-DH1_2441_00



1_Reference_Level_NVNT_ANT1_3-DH1_2480_00



2_Spurious_Emissions_NVNT_ANT1_3-DH1_2480_00



Appendix A.7: Test Results of Radiated Spurious Emissions

Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30 MHz - 1GHz



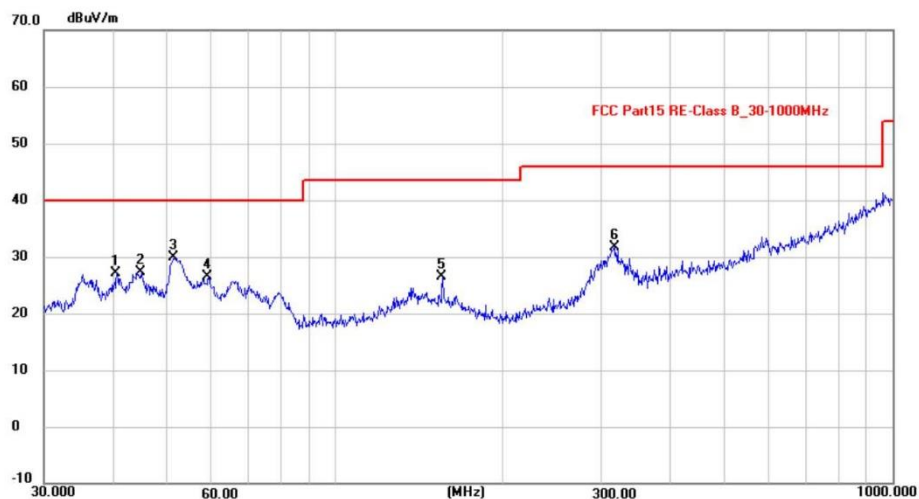
Shenzhen PSI Testing Co., Ltd.
1-2F, Building 5, Yudafu Industrial Park, No. 10, Xingye West Road,
Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104

Test Site: PSI EMC Lab-3m Chamber Polarization: **Vertical** Temperature: 26 °C
EUT: N/A Distance: 3m Humidity: 54 %RH
M/N: N/A Test Engineer: Jensen Wang
Test Mode: GFSK2402MHz
Test Voltage: DC 3.7V from battery
Note:

Radiated Emission Measurement

2024/12/12

11:08:05



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	40.5591	12.65	14.55	27.20	40.00	-12.80	peak	100	124	P	
2	44.9006	13.03	14.36	27.39	40.00	-12.61	peak	100	254	P	
3 *	51.4807	15.83	13.99	29.82	40.00	-10.18	peak	100	8	P	
4	59.2324	13.22	13.19	26.41	40.00	-13.59	peak	100	103	P	
5	155.9101	12.21	14.26	26.47	43.50	-17.03	peak	100	214	P	
6	316.5890	16.25	15.37	31.62	46.00	-14.38	peak	100	259	P	

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



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
EUT: N/A
M/N: N/A
Test Mode: GFSK2402MHz
Test Voltage: DC 3.7V from battery
Note:

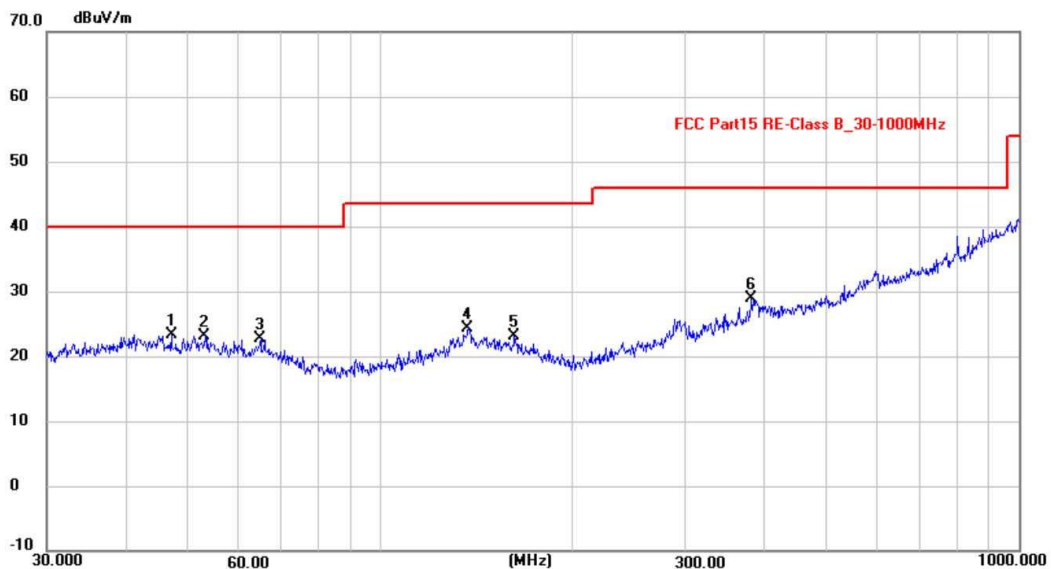
Polarization: **Horizontal**
Distance: 3m
Test Engineer: Jensen Wang

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

2024/12/12

11:14:43



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 *	46.9948	9.09	14.27	23.36	40.00	-16.64	peak	200	120	P	
2	53.1313	9.33	13.83	23.16	40.00	-16.84	peak	200	187	P	
3	64.8865	10.10	12.61	22.71	40.00	-17.29	peak	200	136	P	
4	137.4202	10.64	13.72	24.36	43.50	-19.14	peak	200	204	P	
5	162.0414	8.98	14.16	23.14	43.50	-20.36	peak	200	198	P	
6	381.2487	11.69	17.20	28.89	46.00	-17.11	peak	200	24	P	

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



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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
EUT: N/A
M/N: N/A
Test Mode: GFSK2441MHz
Test Voltage: DC 3.7V from battery
Note:

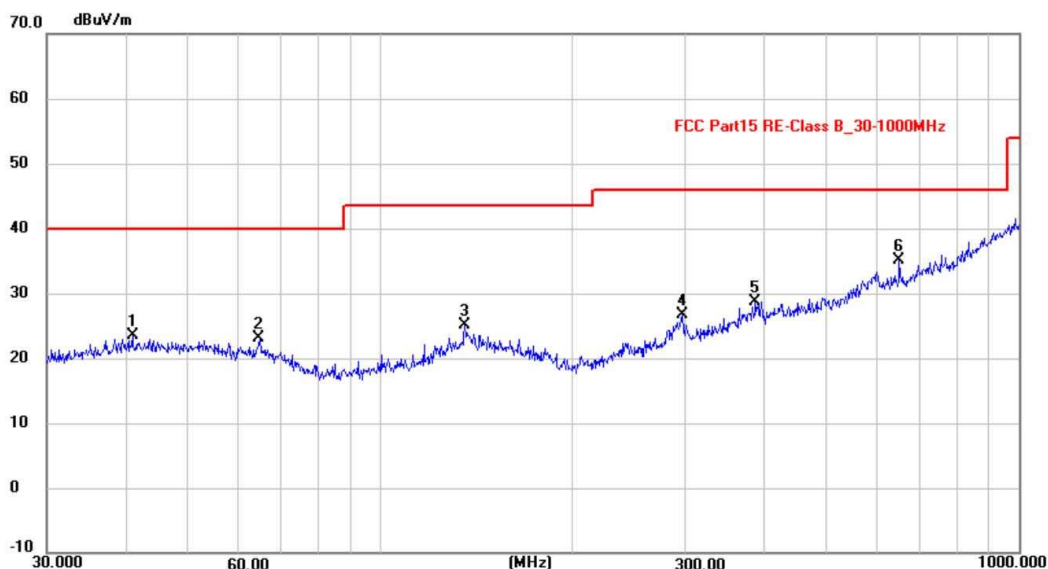
Polarization: **Horizontal**
Distance: 3m
Test Engineer: Jensen Wang

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

2024/12/12

11:19:06



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	40.8446	8.94	14.54	23.48	40.00	-16.52	peak	200	102	P	
2	64.6594	10.49	12.64	23.13	40.00	-16.87	peak	200	254	P	
3	135.5062	11.47	13.60	25.07	43.50	-18.43	peak	200	77	P	
4	297.2241	11.87	14.85	26.72	46.00	-19.28	peak	200	134	P	
5	386.6338	11.32	17.35	28.67	46.00	-17.33	peak	200	209	P	
6 *	649.6597	11.34	23.70	35.04	46.00	-10.96	peak	200	258	P	

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



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Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104

Test Site: PSI EMC Lab-3m Chamber
EUT: N/A
M/N: N/A
Test Mode: GFSK2441MHz
Test Voltage: DC 3.7V from battery
Note:

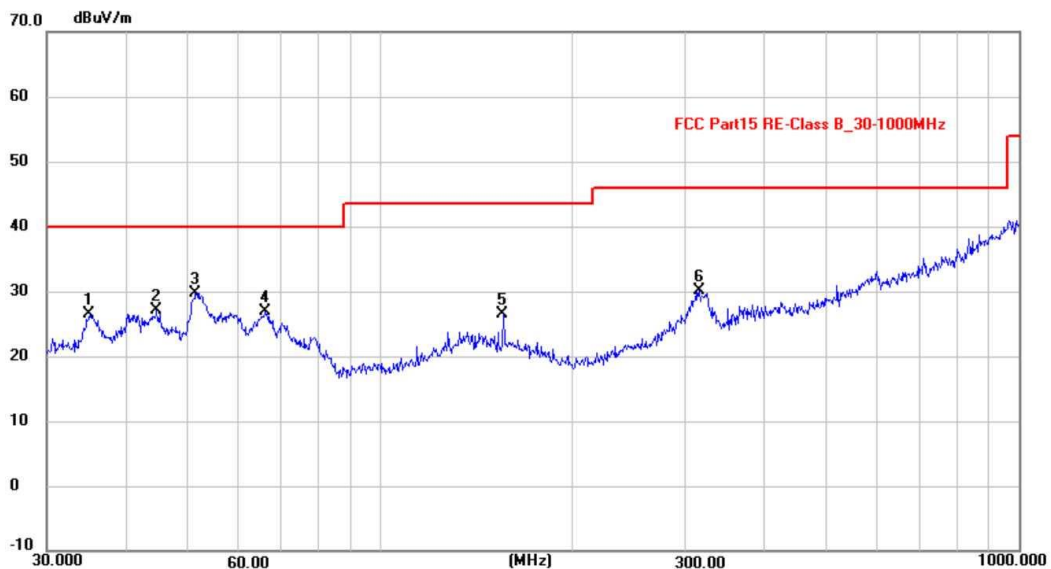
Polarization: **Vertical**
Distance: 3m
Test Engineer: Jensen Wang

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

2024/12/12

11:22:35



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	35.0048	12.58	13.84	26.42	40.00	-13.58	peak	100	247	P	
2	44.5868	12.68	14.37	27.05	40.00	-12.95	peak	100	49	P	
3 *	51.3005	15.77	14.01	29.78	40.00	-10.22	peak	100	106	P	
4	66.0342	14.50	12.50	27.00	40.00	-13.00	peak	100	57	P	
5	155.9101	12.29	14.26	26.55	43.50	-16.95	peak	100	49	P	
6	315.4808	14.70	15.34	30.04	46.00	-15.96	peak	100	258	P	

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



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Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104

Test Site: PSI EMC Lab-3m Chamber
EUT: N/A
M/N: N/A
Test Mode: GFSK2480MHz
Test Voltage: DC 3.7V from battery
Note:

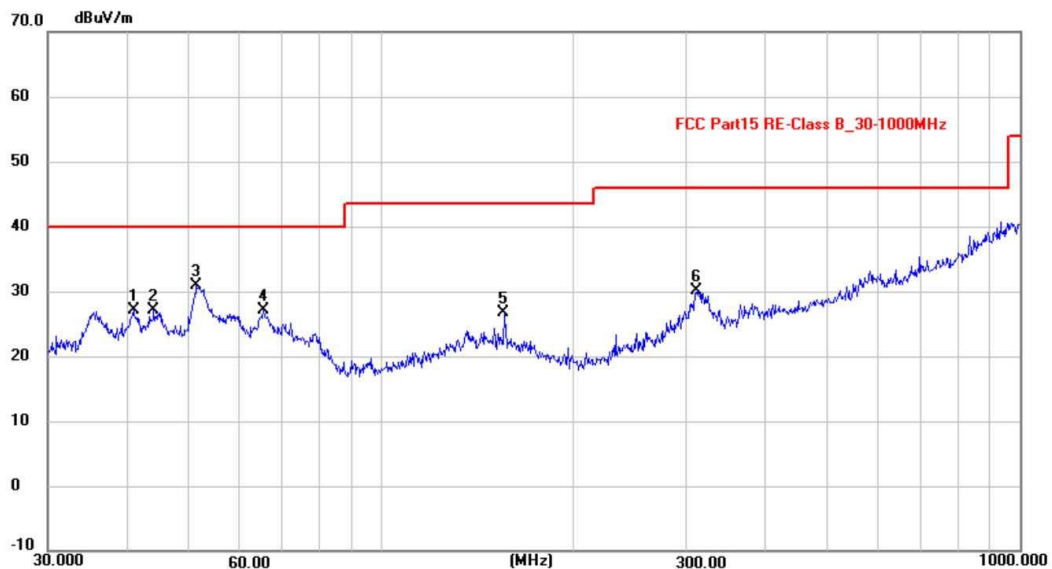
Polarization: **Vertical**
Distance: 3m
Test Engineer: Jensen Wang

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

2024/12/12

11:26:38



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	40.8446	12.47	14.54	27.01	40.00	-12.99	peak	100	147	P	
2	43.9658	12.65	14.40	27.05	40.00	-12.95	peak	100	49	P	
3 *	51.3005	16.94	14.01	30.95	40.00	-9.05	peak	100	217	P	
4	65.3432	14.63	12.56	27.19	40.00	-12.81	peak	100	230	P	
5	155.9101	12.36	14.26	26.62	43.50	-16.88	peak	100	258	P	
6	312.1794	14.94	15.24	30.18	46.00	-15.82	peak	100	148	P	

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



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Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104

Test Site: PSI EMC Lab-3m Chamber
EUT: N/A
M/N: N/A
Test Mode: GFSK2480MHz
Test Voltage: DC 3.7V from battery
Note:

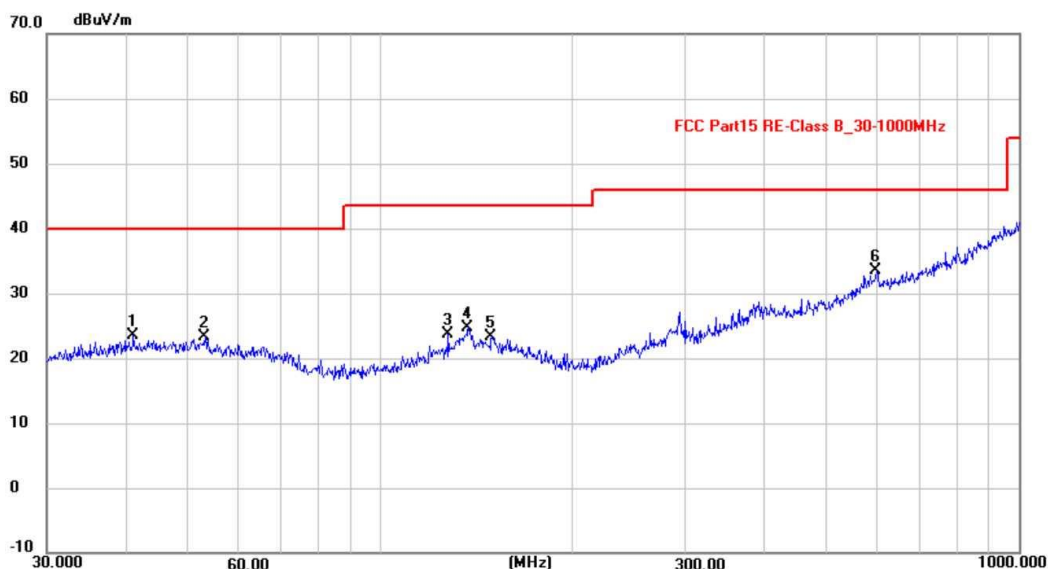
Polarization: **Horizontal**
Distance: 3m
Test Engineer: Jensen Wang

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

2024/12/12

11:31:14



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	40.9880	8.96	14.53	23.49	40.00	-16.51	peak	200	165	P	
2	53.1313	9.57	13.83	23.40	40.00	-16.60	peak	200	254	P	
3	127.6645	10.70	13.07	23.77	43.50	-19.73	peak	200	98	P	
4	137.4202	11.08	13.72	24.80	43.50	-18.70	peak	200	107	P	
5	149.4857	9.19	14.11	23.30	43.50	-20.20	peak	200	247	P	
6 *	599.3212	10.66	22.86	33.52	46.00	-12.48	peak	200	200	P	

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



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Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104

Test Site: PSI EMC Lab-3m Chamber
EUT: N/A
M/N: N/A
Test Mode: $\pi/4$ D-QPSK 2402MHz
Test Voltage: DC 3.7V from battery
Note:

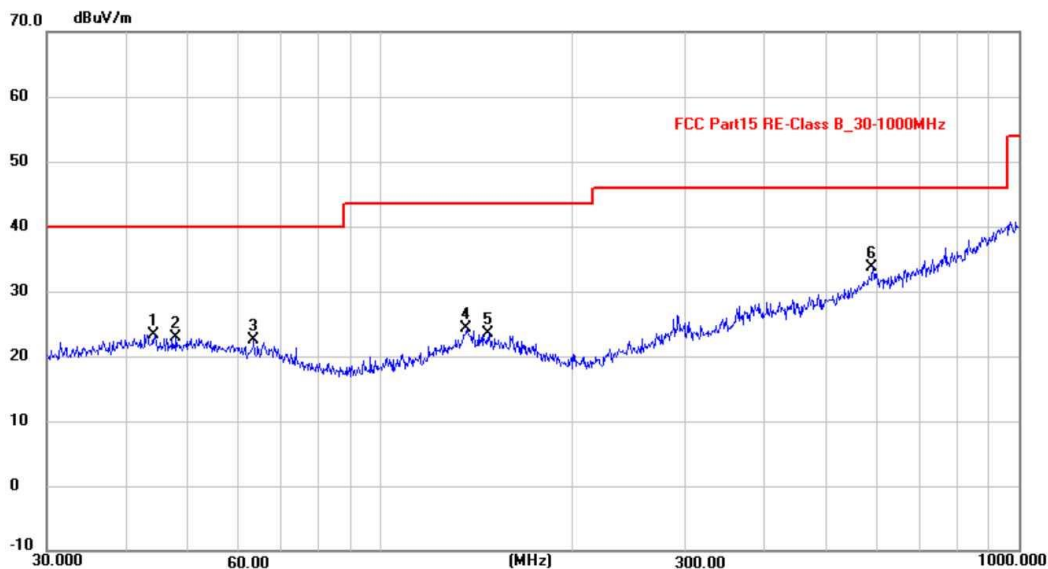
Polarization: **Horizontal**
Distance: 3m
Test Engineer: Jensen Wang

Temperature: 26 °C
Humidity: 54 %RH

Radiated Emission Measurement

2024/12/12

11:36:37



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	44.2752	8.91	14.39	23.30	40.00	-16.70	peak	200	124	P	
2	47.8260	8.63	14.24	22.87	40.00	-17.13	peak	200	57	P	
3	63.3132	9.73	12.78	22.51	40.00	-17.49	peak	200	49	P	
4	136.4598	10.73	13.66	24.39	43.50	-19.11	peak	200	204	P	
5	147.9214	9.47	14.08	23.55	43.50	-19.95	peak	200	135	P	
6 *	590.9737	10.99	22.64	33.63	46.00	-12.37	peak	200	214	P	

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