

FCC Appendix RF Test Data for BLE

FCC ID : 2BEGI-PD1

Company : Shenzhen WISO Technology Co., Ltd

EUT : PixelDarts

Model Number : DN-PD1

Report No. : CTA25111901801

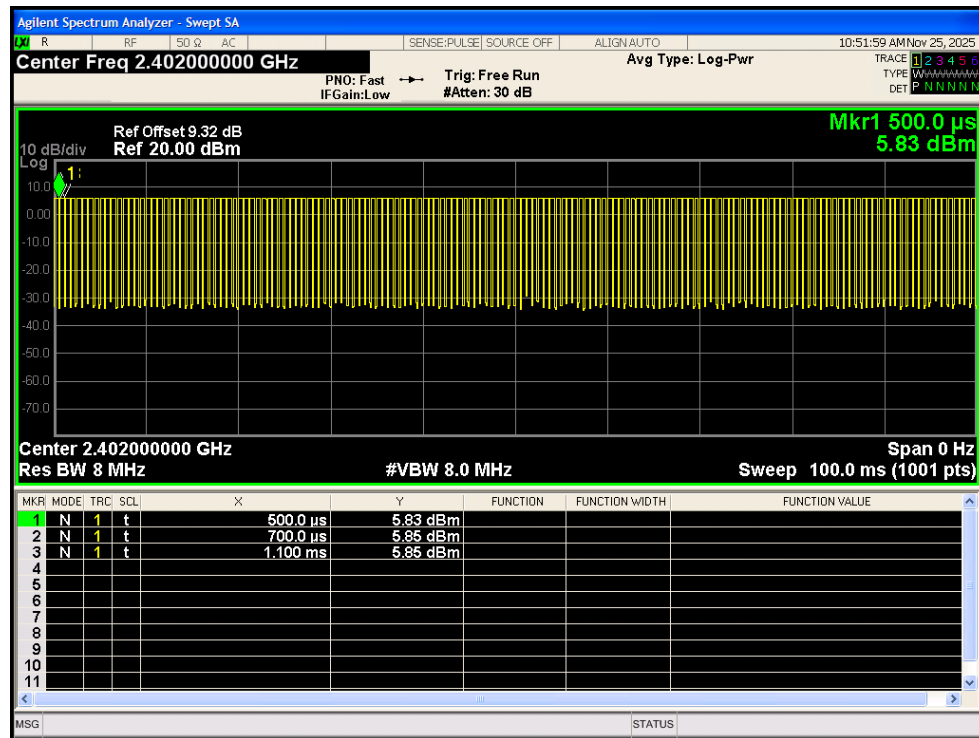
Reviewed By : Eric Wang

Duty Cycle

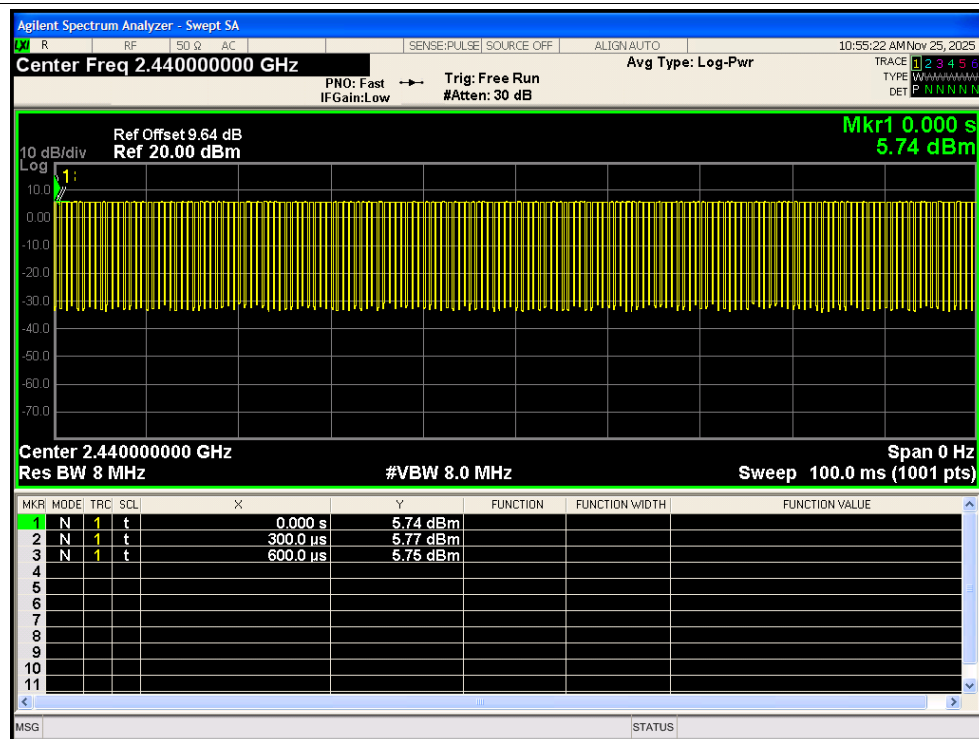
Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)
NVNT	BLE 1M	2402	75.92	1.20
NVNT	BLE 1M	2440	76.02	1.19
NVNT	BLE 1M	2480	76.02	1.19

Test Graphs

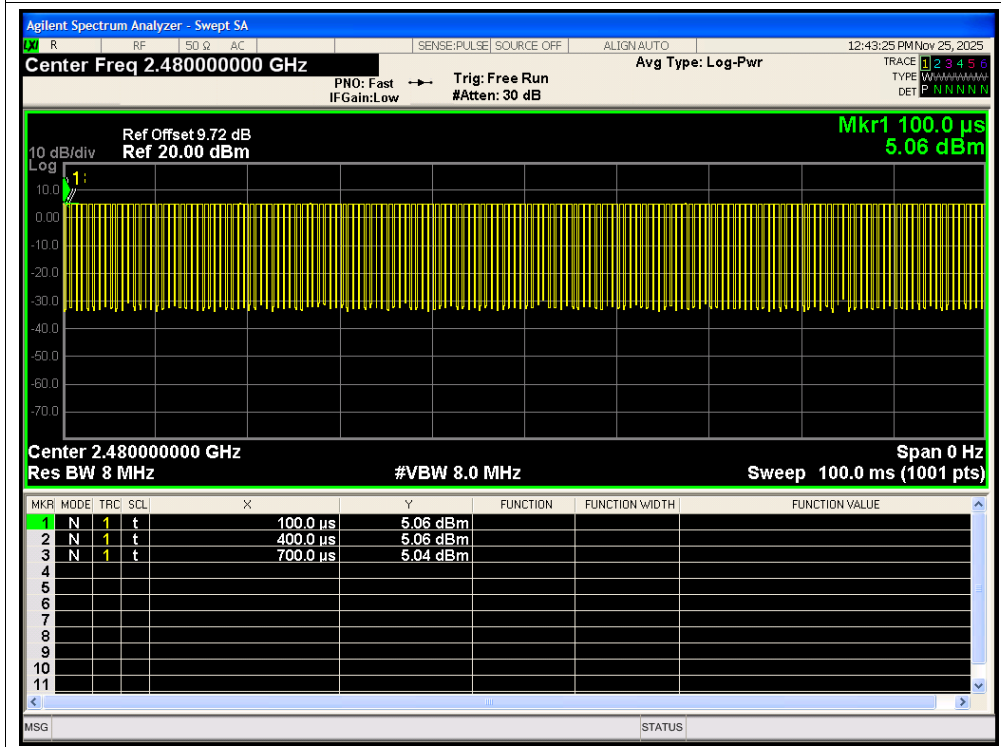
Duty Cycle NVNT BLE 1M 2402MHz



Duty Cycle NVNT BLE 1M 2440MHz



Duty Cycle NVNT BLE 1M 2480MHz



Maximum Conducted Output Power

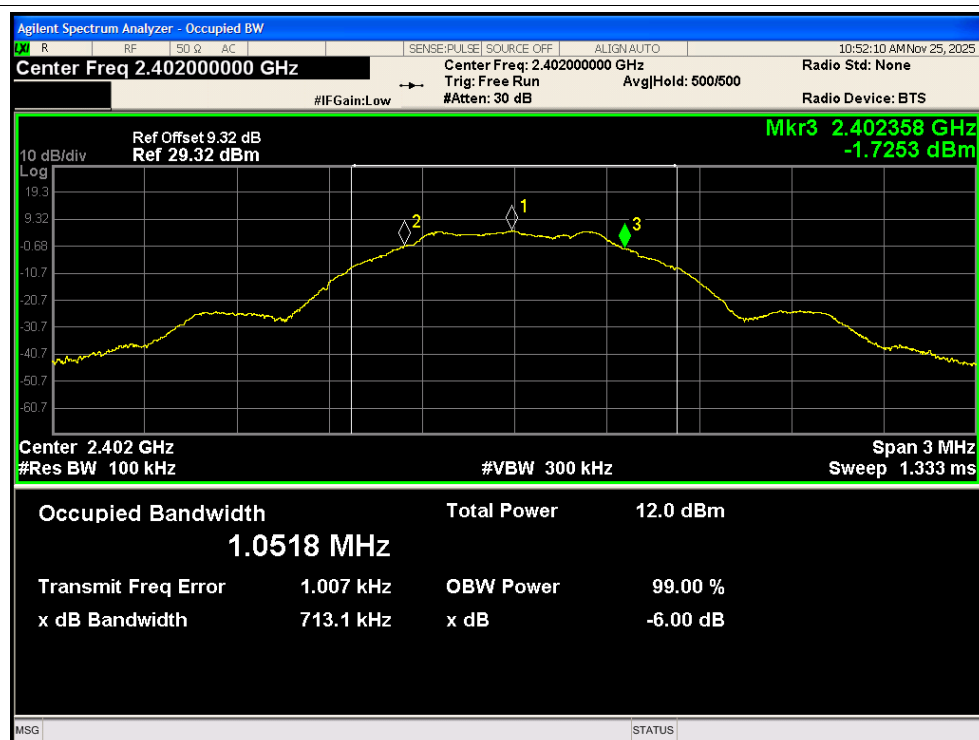
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	5.76	30	Pass
NVNT	BLE 1M	2440	5.71	30	Pass
NVNT	BLE 1M	2480	4.99	30	Pass

-6dB Bandwidth

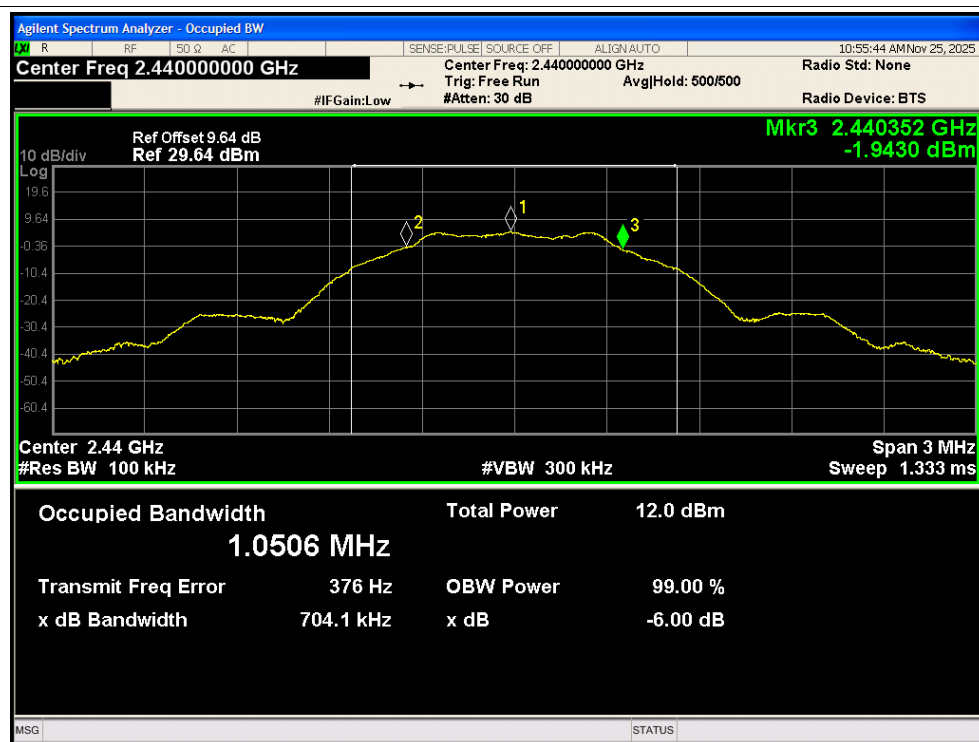
Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	0.713	0.5	Pass
NVNT	BLE 1M	2440	0.704	0.5	Pass
NVNT	BLE 1M	2480	0.701	0.5	Pass

Test Graphs

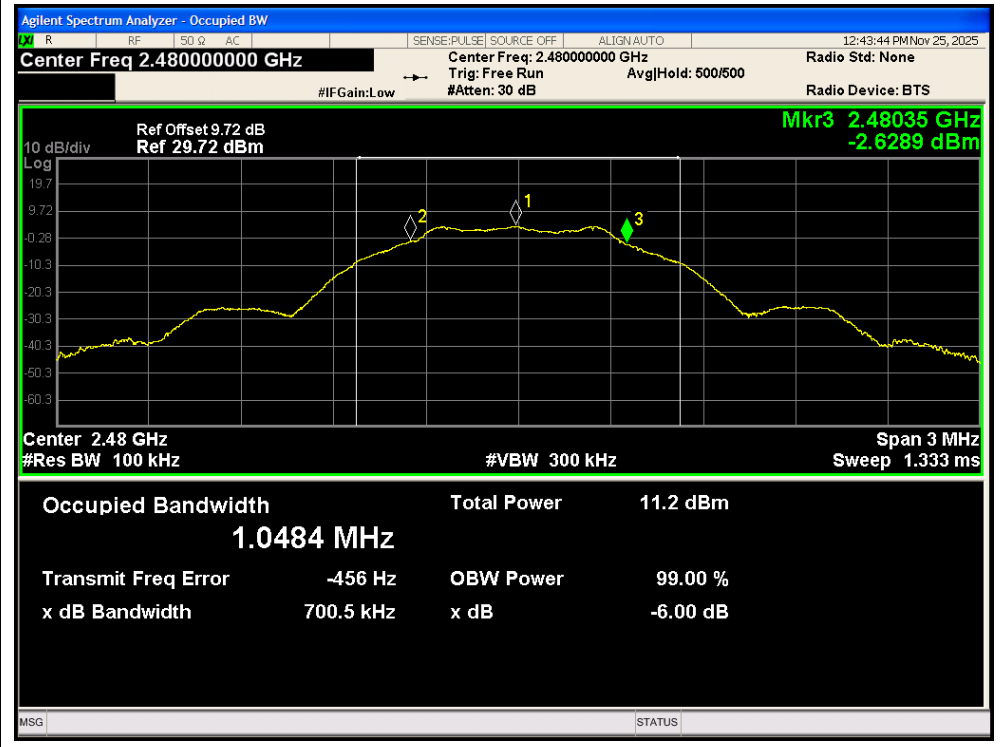
-6dB Bandwidth NVNT BLE 1M 2402MHz



-6dB Bandwidth NVNT BLE 1M 2440MHz



-6dB Bandwidth NVNT BLE 1M 2480MHz

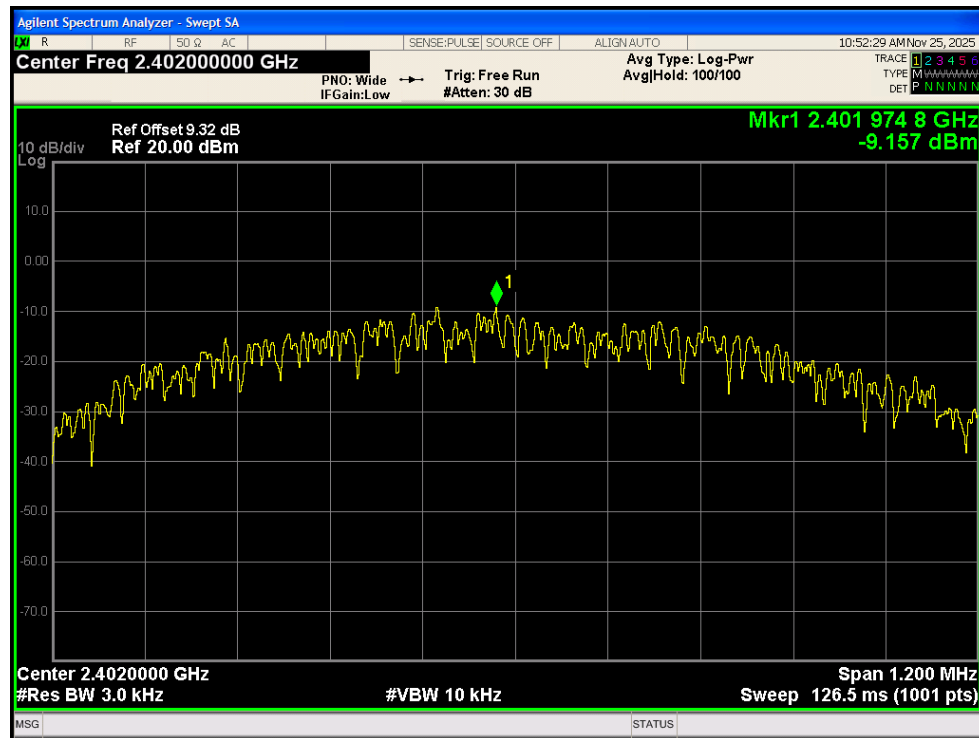


Maximum Power Spectral Density Level

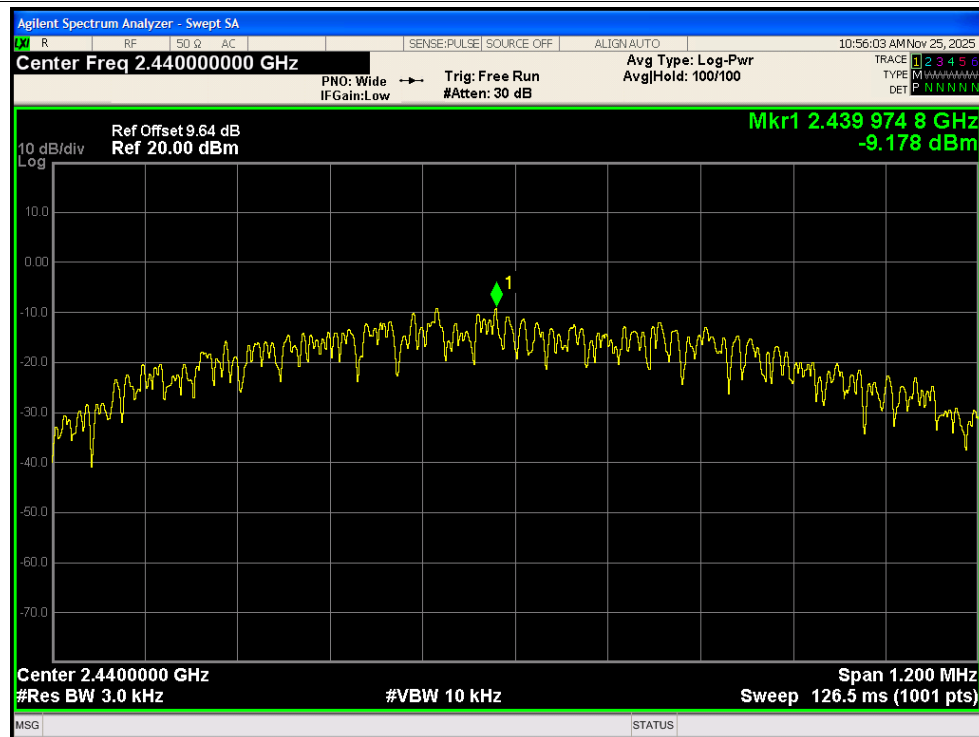
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	-9.16	8	Pass
NVNT	BLE 1M	2440	-9.18	8	Pass
NVNT	BLE 1M	2480	-10.02	8	Pass

Test Graphs

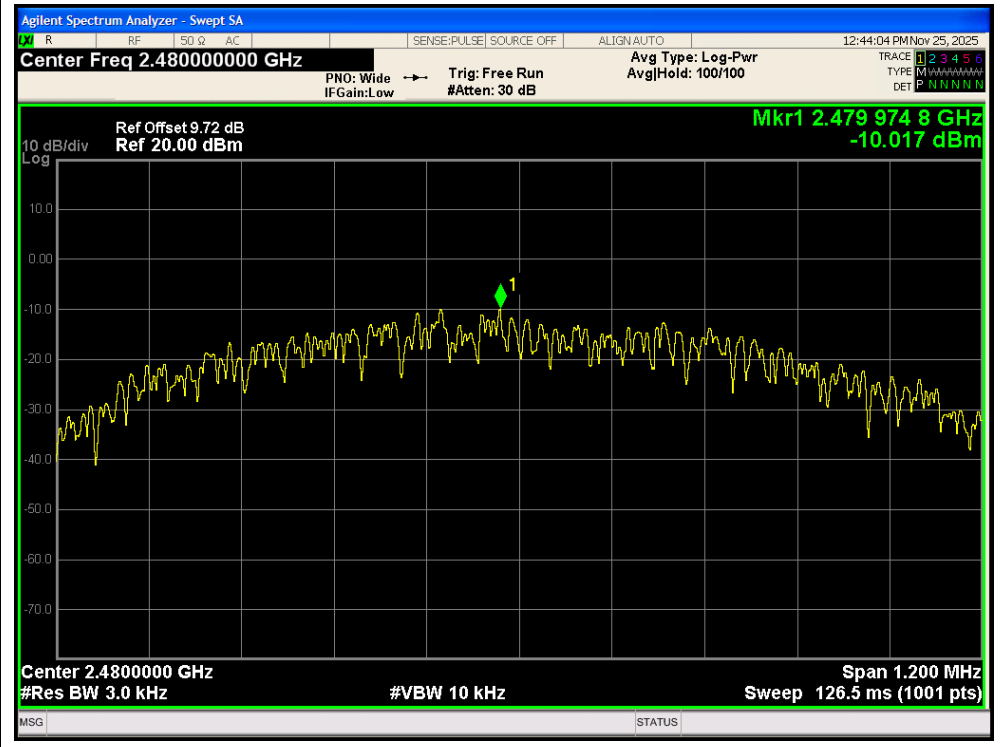
PSD NVNT BLE 1M 2402MHz



PSD NVNT BLE 1M 2440MHz



PSD NVNT BLE 1M 2480MHz

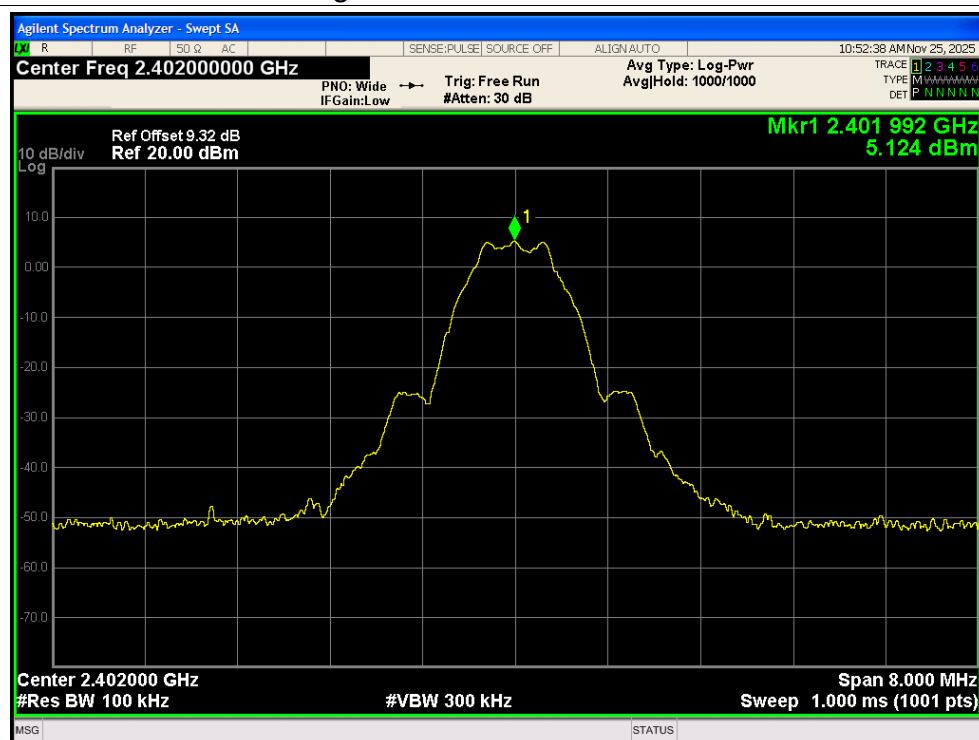


Band Edge

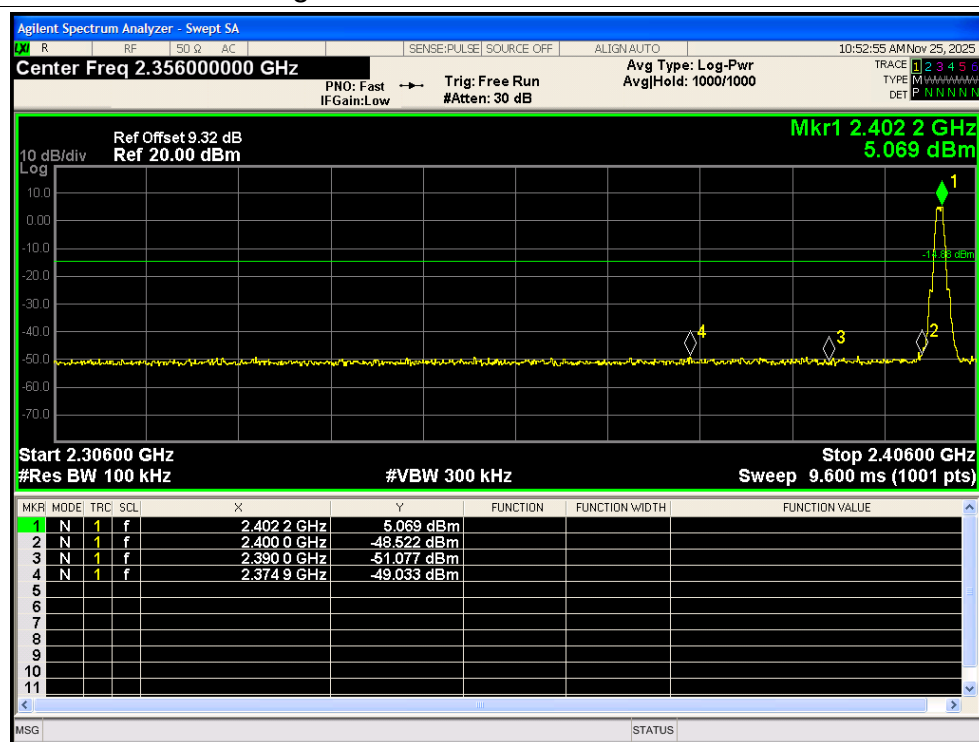
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	-54.15	-20	Pass
NVNT	BLE 1M	2480	-52.19	-20	Pass

Test Graphs

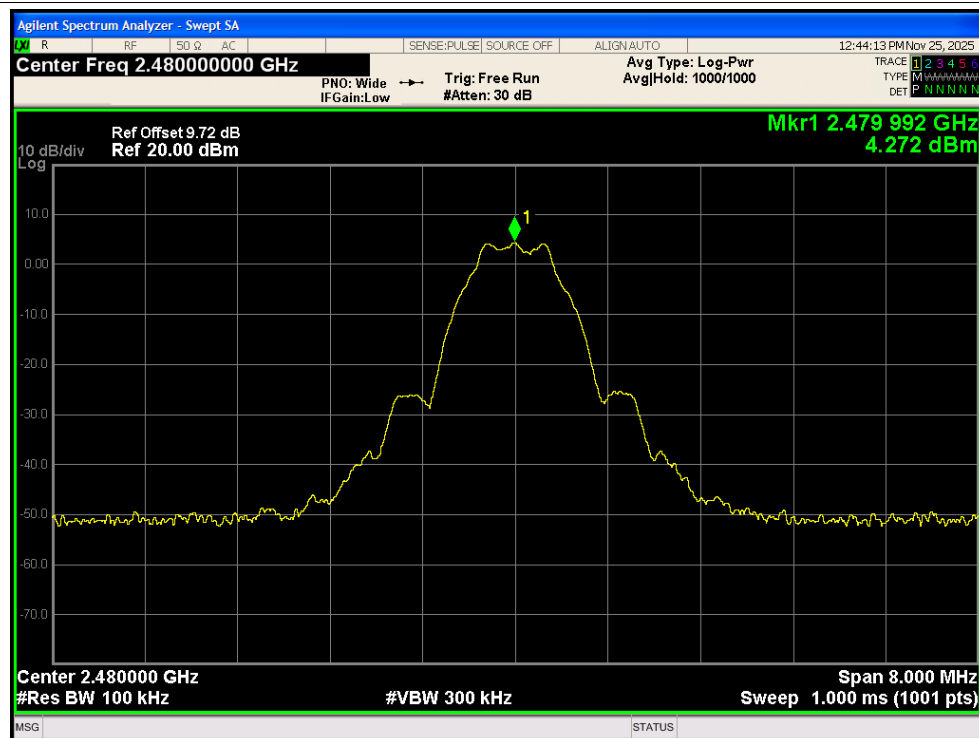
Band Edge NVNT BLE 1M 2402MHz Ref



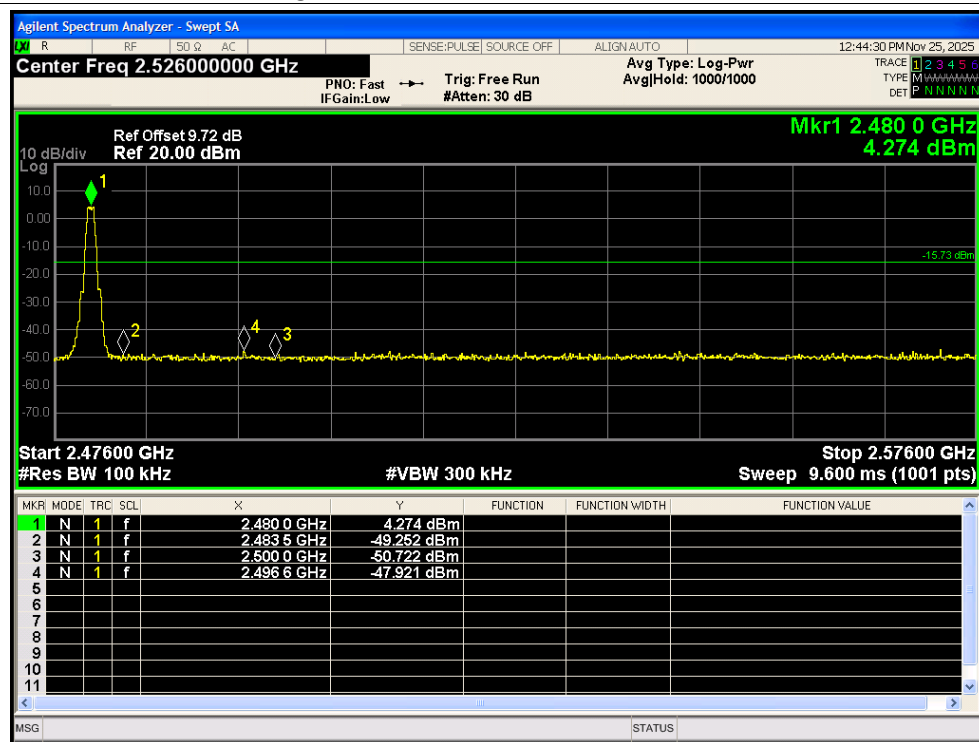
Band Edge NVNT BLE 1M 2402MHz Emission



Band Edge NVNT BLE 1M 2480MHz Ref



Band Edge NVNT BLE 1M 2480MHz Emission

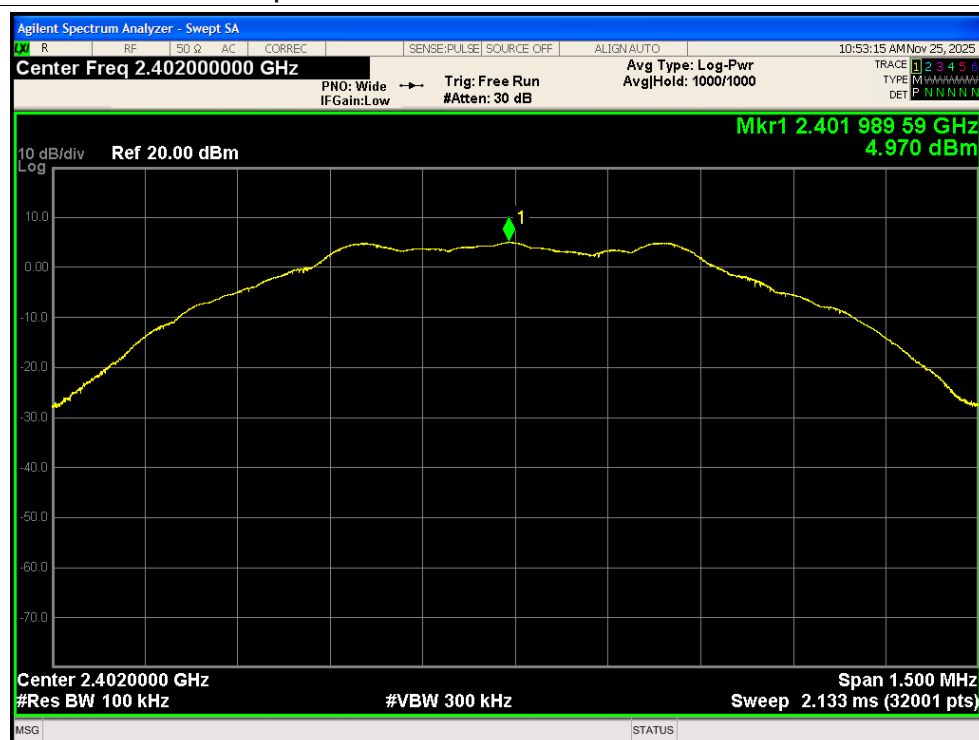


Conducted RF Spurious Emission

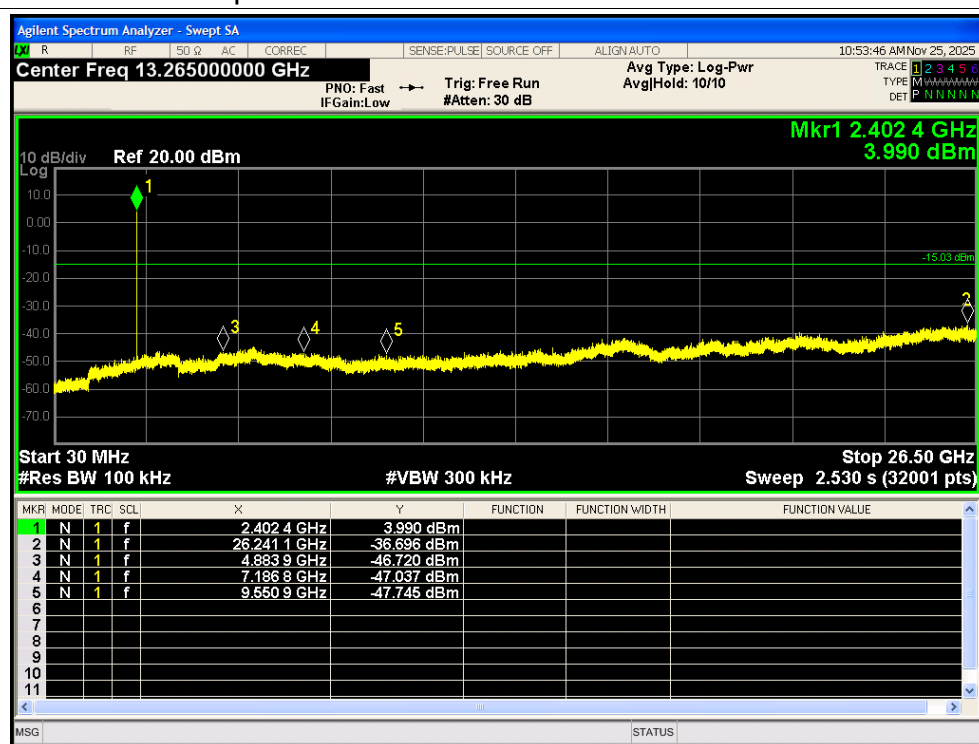
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	-41.66	-20	Pass
NVNT	BLE 1M	2440	-42.14	-20	Pass
NVNT	BLE 1M	2480	-40.77	-20	Pass

Test Graphs

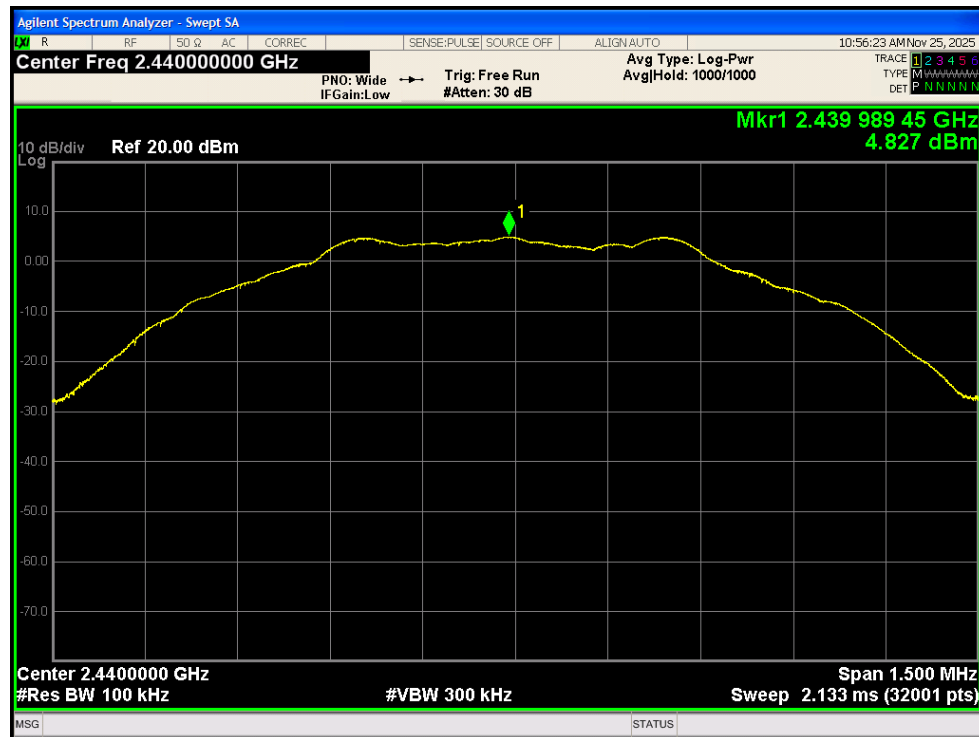
Tx. Spurious NVNT BLE 1M 2402MHz Ref



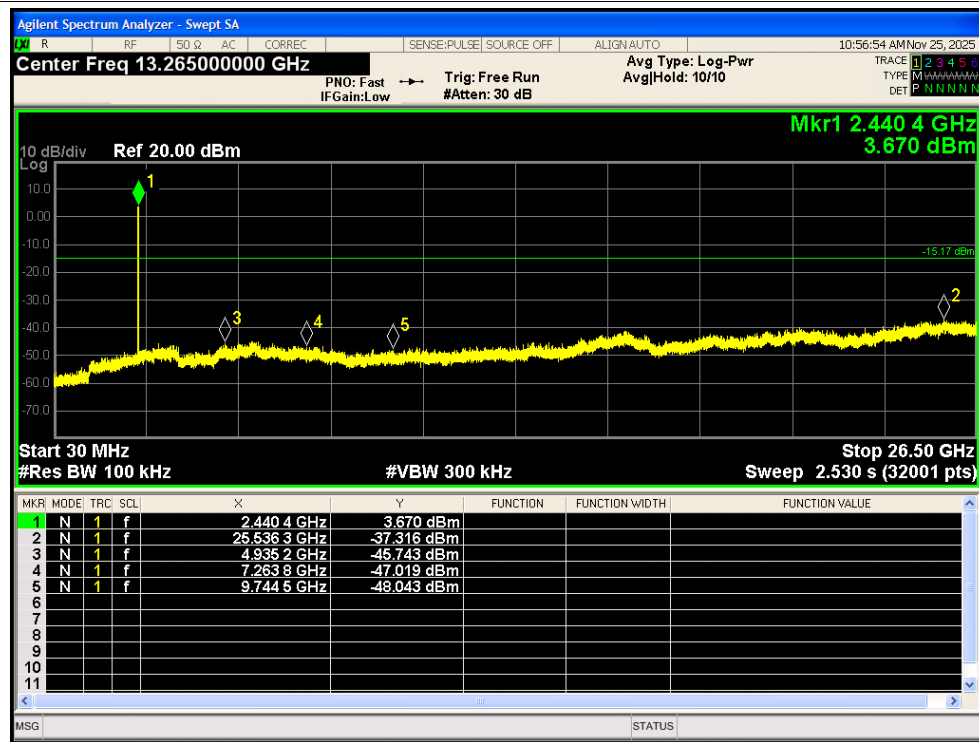
Tx. Spurious NVNT BLE 1M 2402MHz Emission



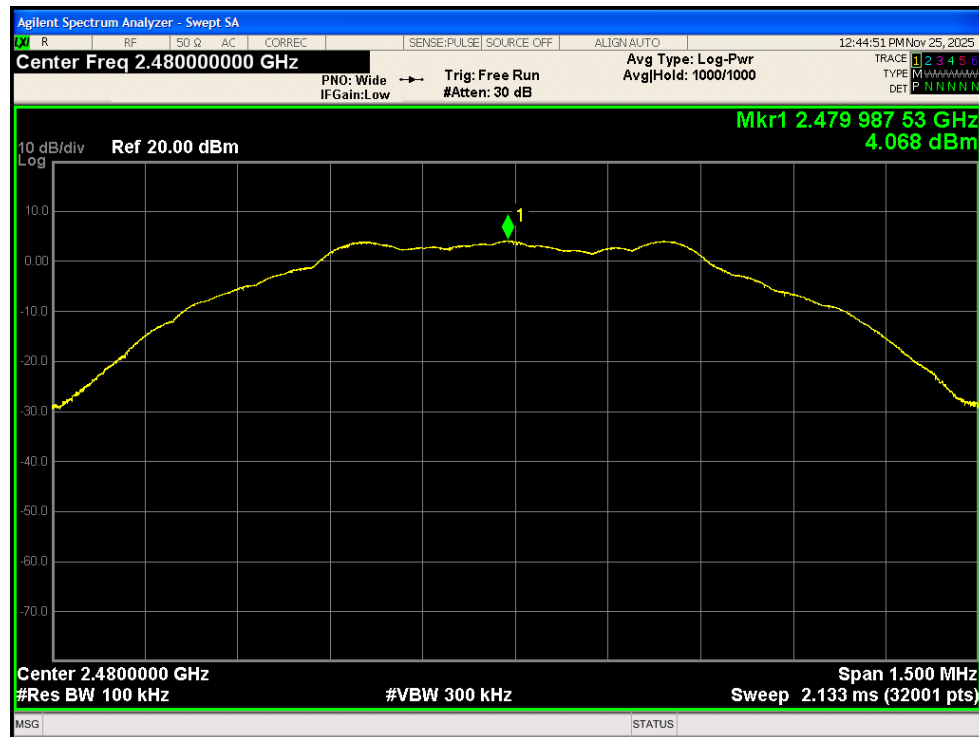
Tx. Spurious NVNT BLE 1M 2440MHz Ref



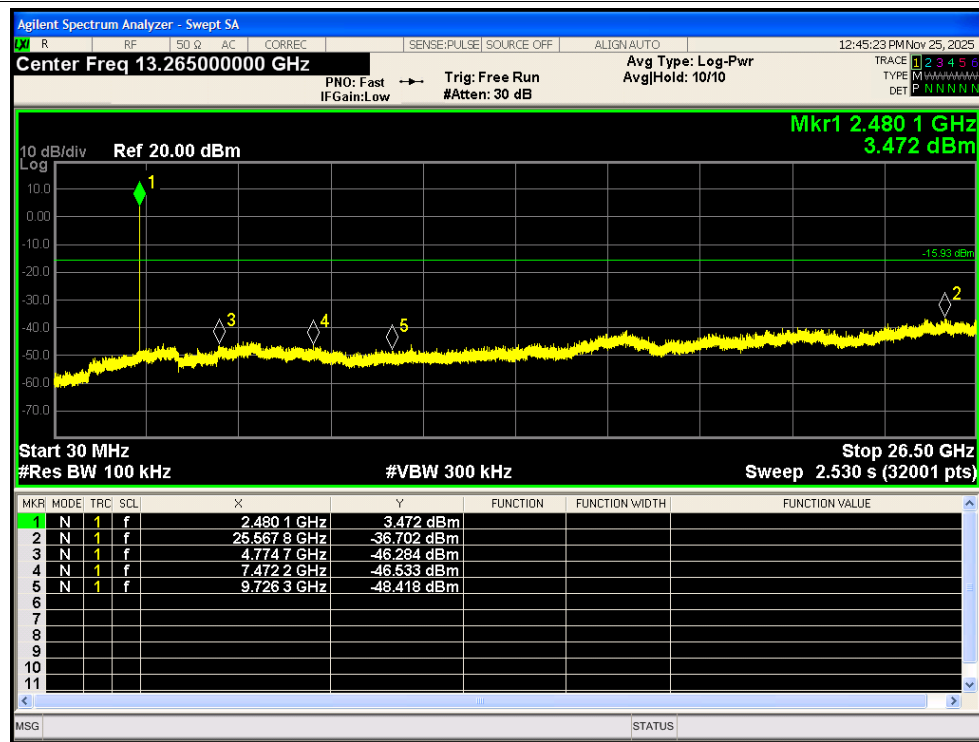
Tx. Spurious NVNT BLE 1M 2440MHz Emission



Tx. Spurious NVNT BLE 1M 2480MHz Ref



Tx. Spurious NVNT BLE 1M 2480MHz Emission

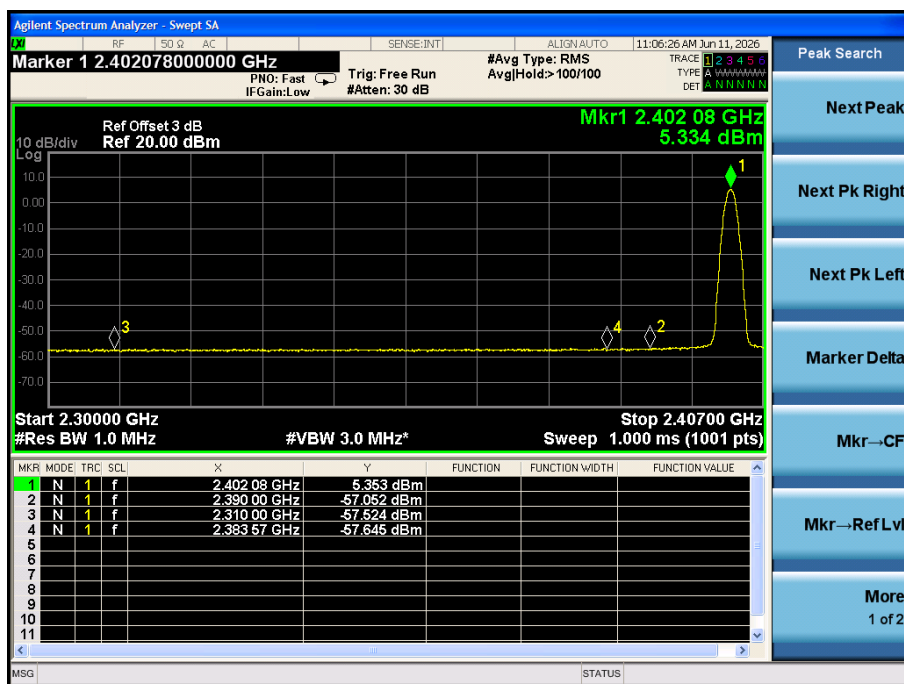


Emissions in Restricted Bands

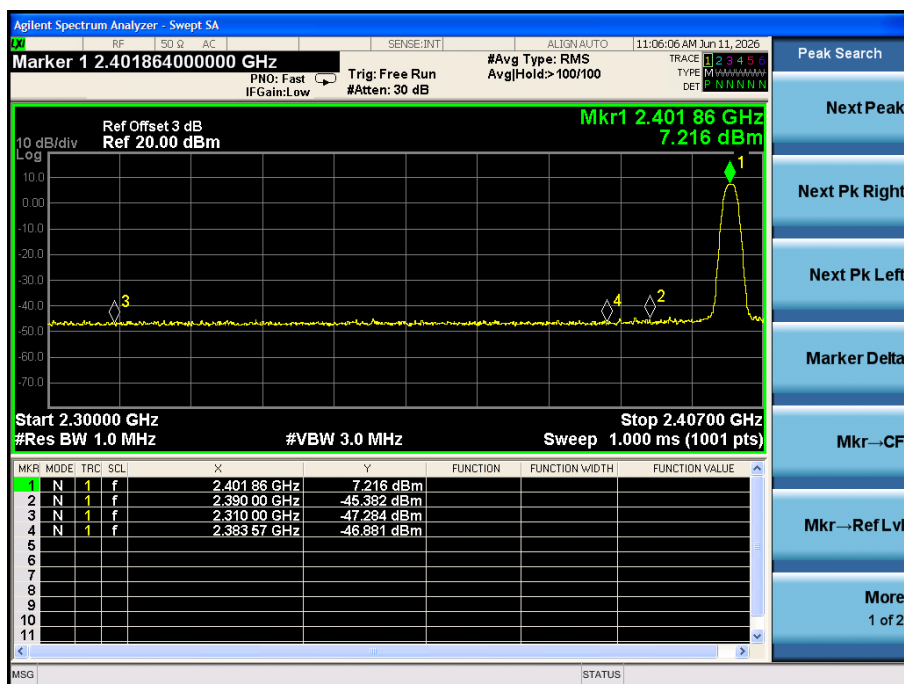
Test Mode	Ch	Freq (MHz)	Detector	Freq [MHz]	Result [dBm]	Gain [dBi]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
1M	Low	2402	AV	2310.00	-57.52	2.00	1.20	40.88	≤54	PASS
			AV	2383.57	-57.65	2.00	1.20	40.75	≤54	PASS
			AV	2390.00	-57.05	2.00	1.20	41.35	≤54	PASS
			Peak	2310.00	-47.28	2.00	0	49.92	≤74	PASS
			Peak	2383.57	-46.88	2.00	0	50.32	≤74	PASS
			Peak	2390.00	-45.38	2.00	0	51.82	≤74	PASS
	High	2480	AV	2483.50	-56.01	2.00	1.19	42.38	≤54	PASS
			AV	2489.09	-56.45	2.00	1.19	41.94	≤54	PASS
			AV	2500.00	-57.12	2.00	1.19	41.27	≤54	PASS
			Peak	2483.50	-43.83	2.00	0	53.37	≤74	PASS
			Peak	2488.26	-44.20	2.00	0	53.00	≤74	PASS
			Peak	2500.00	-46.53	2.00	0	50.67	≤74	PASS

Test Graphs

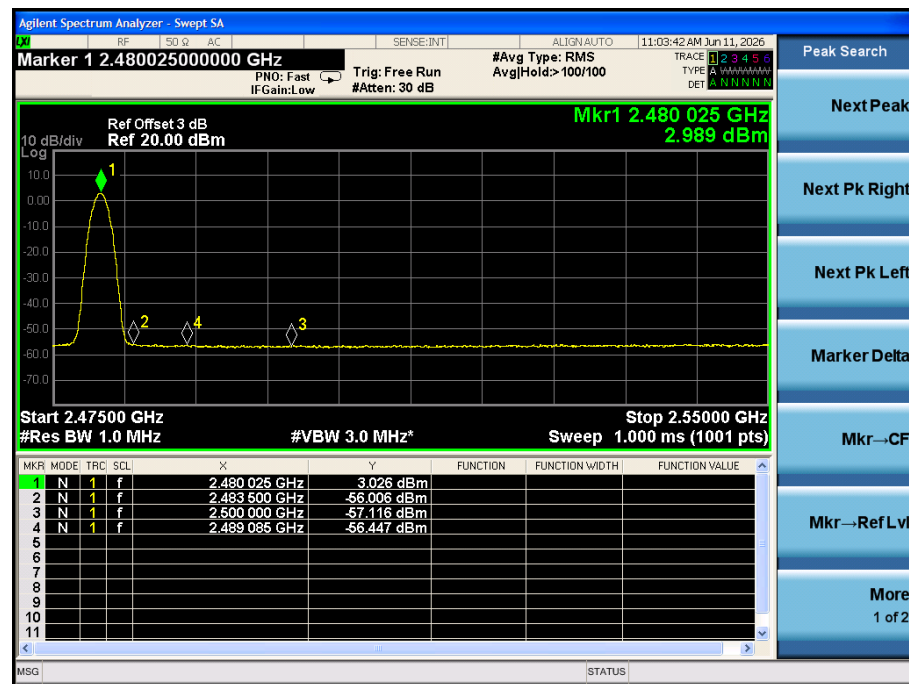
NVNT 1M 2402MHz AV



NVNT 1M 2402MHz PK



NVNT 1M 2480MHz AV



NVNT 1M 2480MHz PK

