



Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Battery Leakage Tester

Test Model: MaxiEV ALT100L

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
	<i>Jay Luo</i>
Supervised by:	Nick Peng
	<i>Nick Peng</i>





A.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	7.586	>=0.5	Pass
NVNT	b	2437	Ant1	7.572	>=0.5	Pass
NVNT	b	2462	Ant1	7.592	>=0.5	Pass
NVNT	g	2412	Ant1	15.356	>=0.5	Pass
NVNT	g	2437	Ant1	13.534	>=0.5	Pass
NVNT	g	2462	Ant1	13.804	>=0.5	Pass
NVNT	n20	2412	Ant1	15.324	>=0.5	Pass
NVNT	n20	2437	Ant1	15.086	>=0.5	Pass
NVNT	n20	2462	Ant1	15.116	>=0.5	Pass
NVNT	n40	2422	Ant1	33.857	>=0.5	Pass
NVNT	n40	2437	Ant1	35.032	>=0.5	Pass
NVNT	n40	2452	Ant1	33.888	>=0.5	Pass

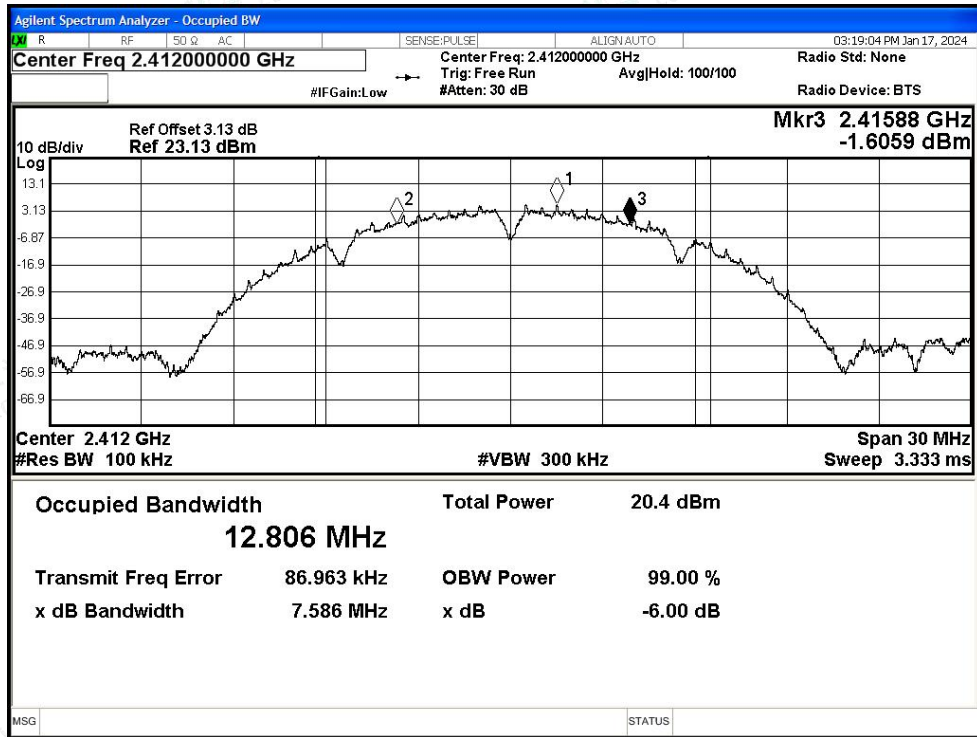


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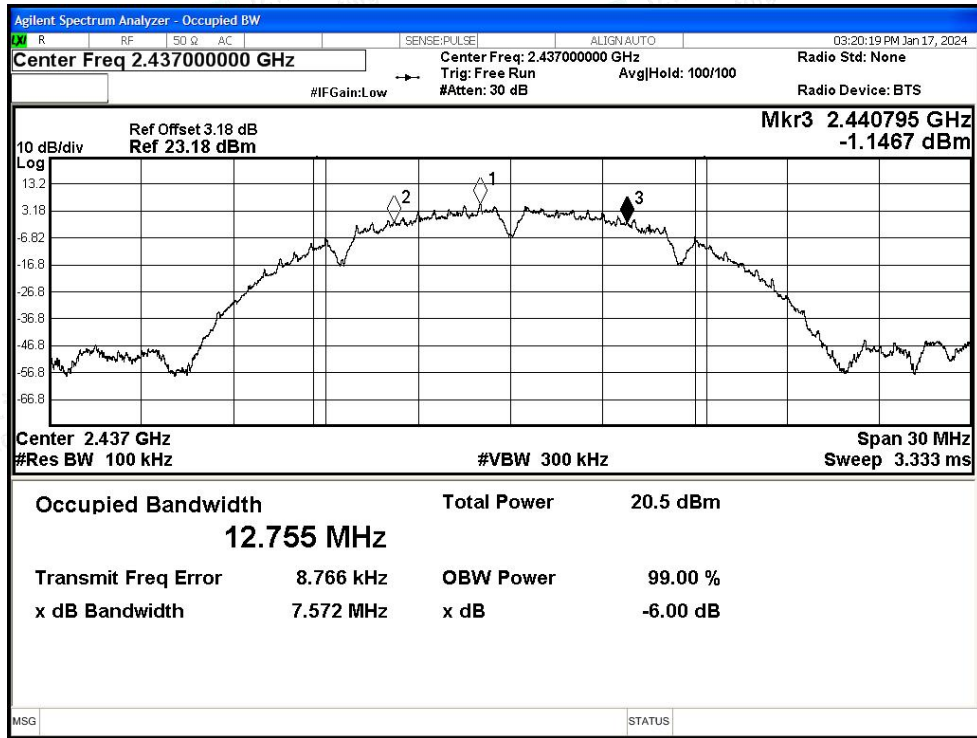


Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1

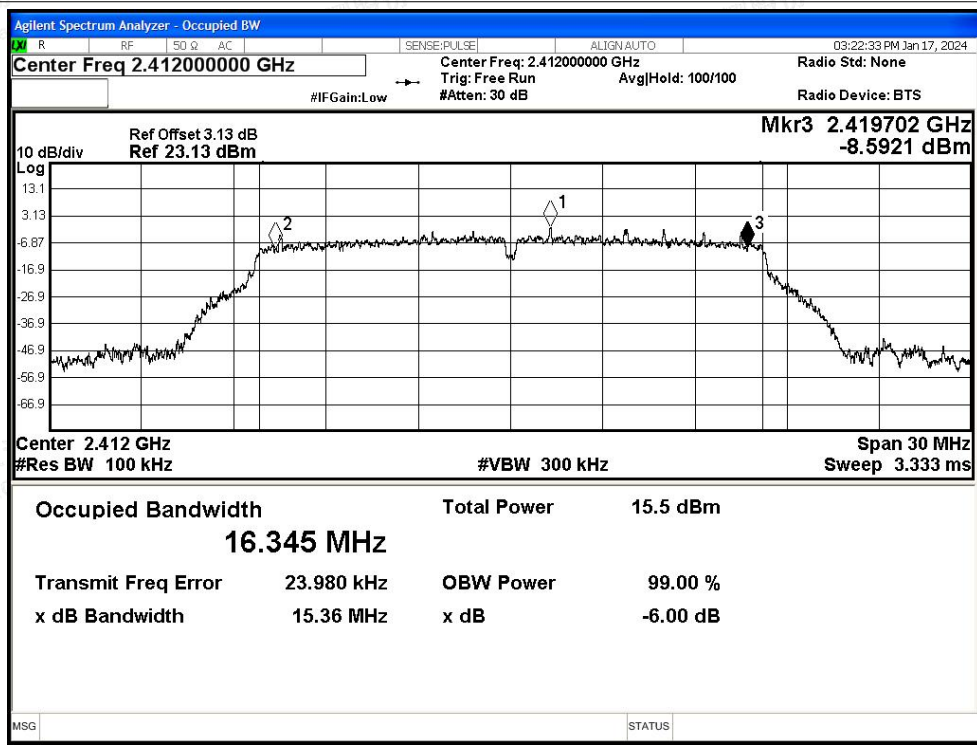




-6dB Bandwidth NVNT b 2462MHz Ant1

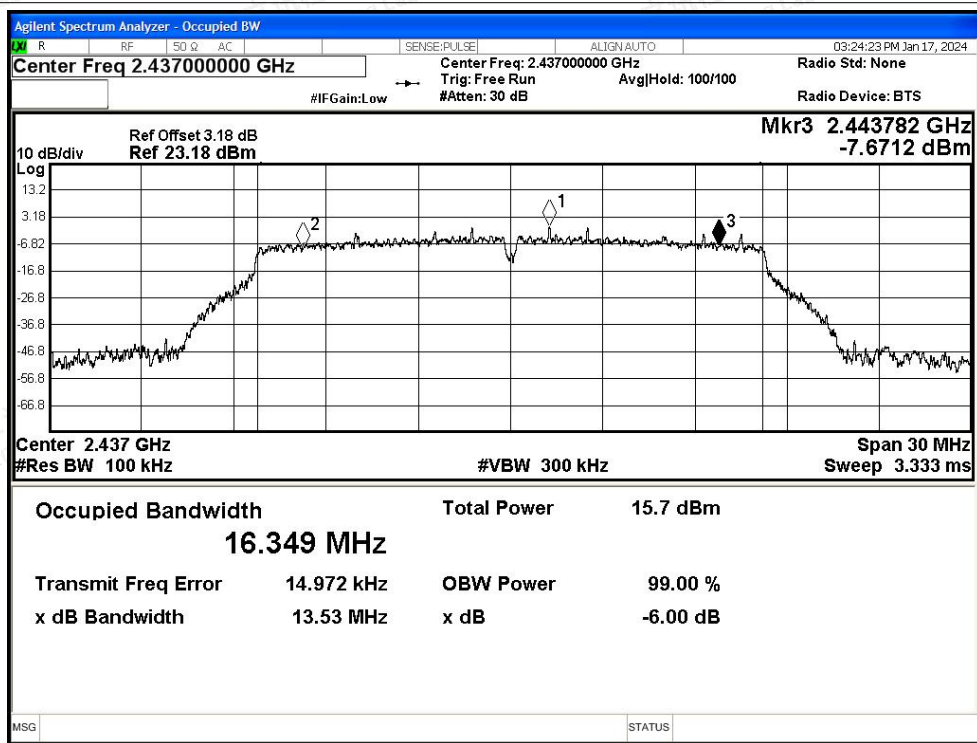


-6dB Bandwidth NVNT g 2412MHz Ant1

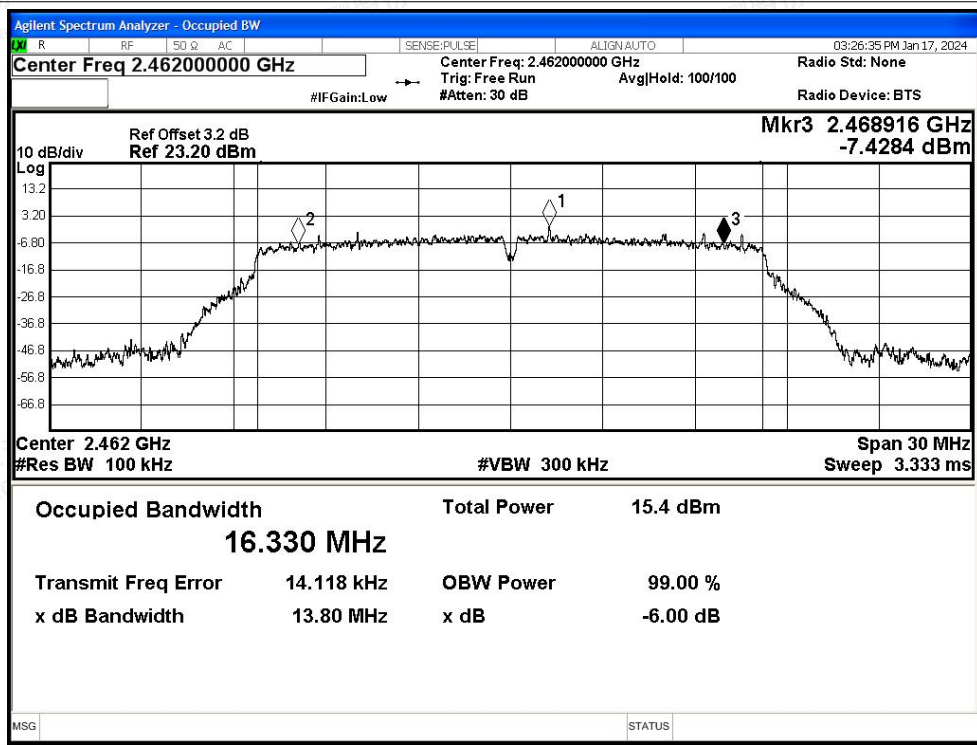




-6dB Bandwidth NVNT g 2437MHz Ant1

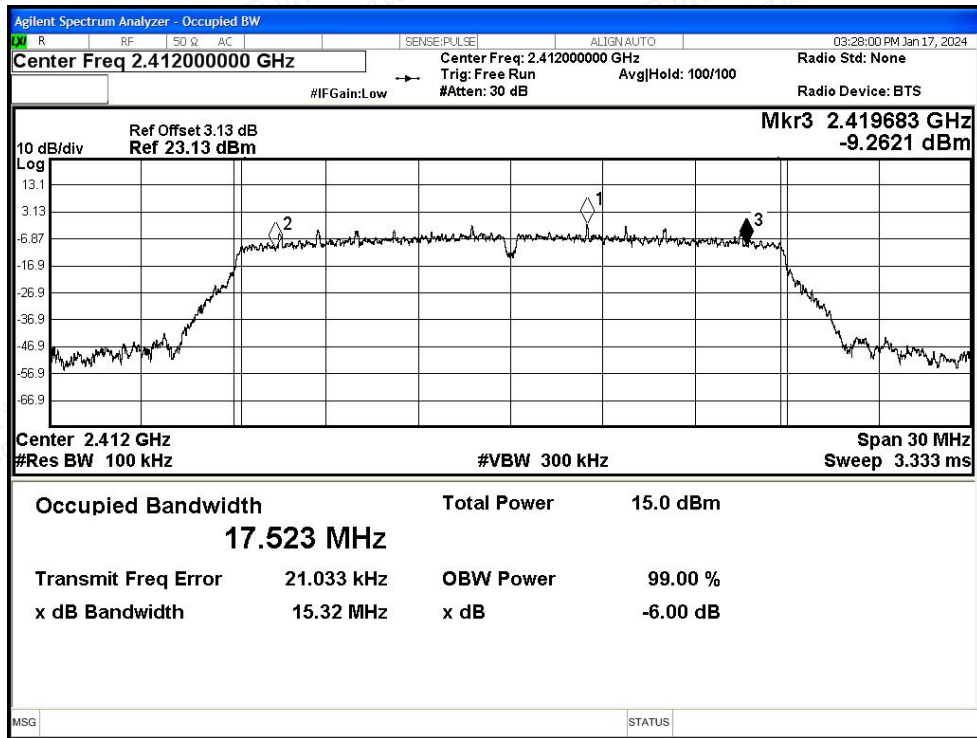


-6dB Bandwidth NVNT g 2462MHz Ant1

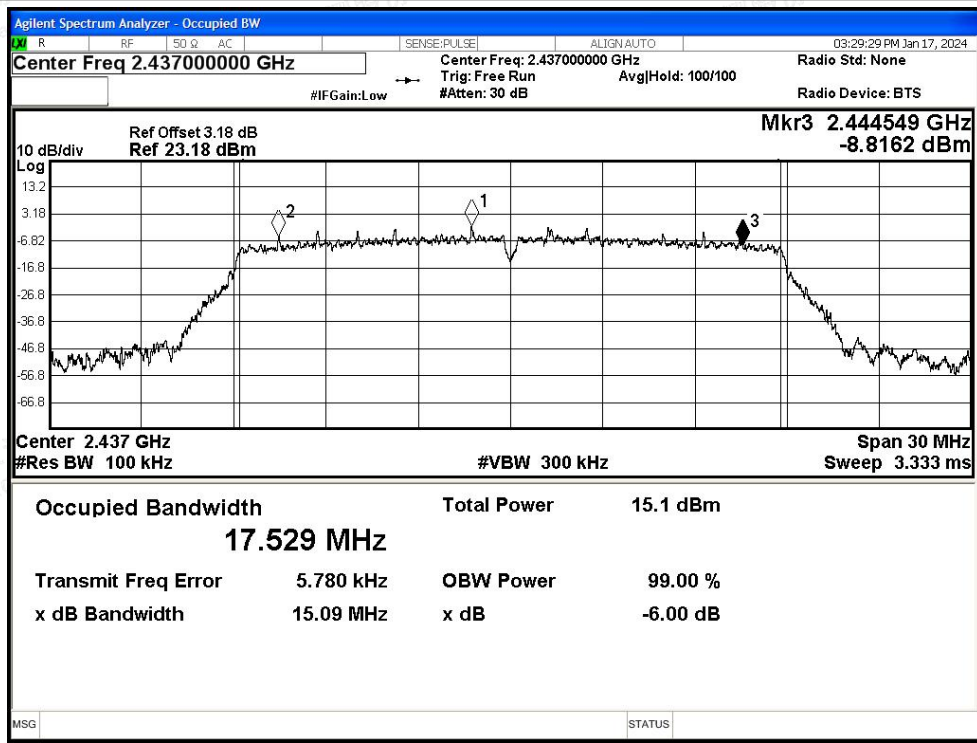




-6dB Bandwidth NVNT n20 2412MHz Ant1

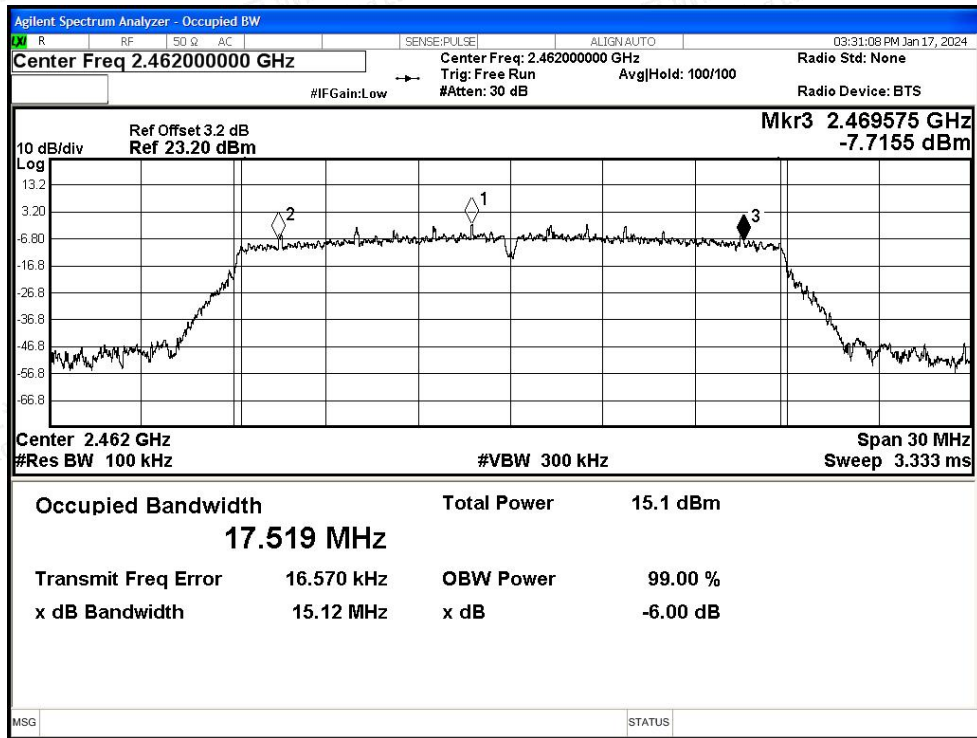


-6dB Bandwidth NVNT n20 2437MHz Ant1

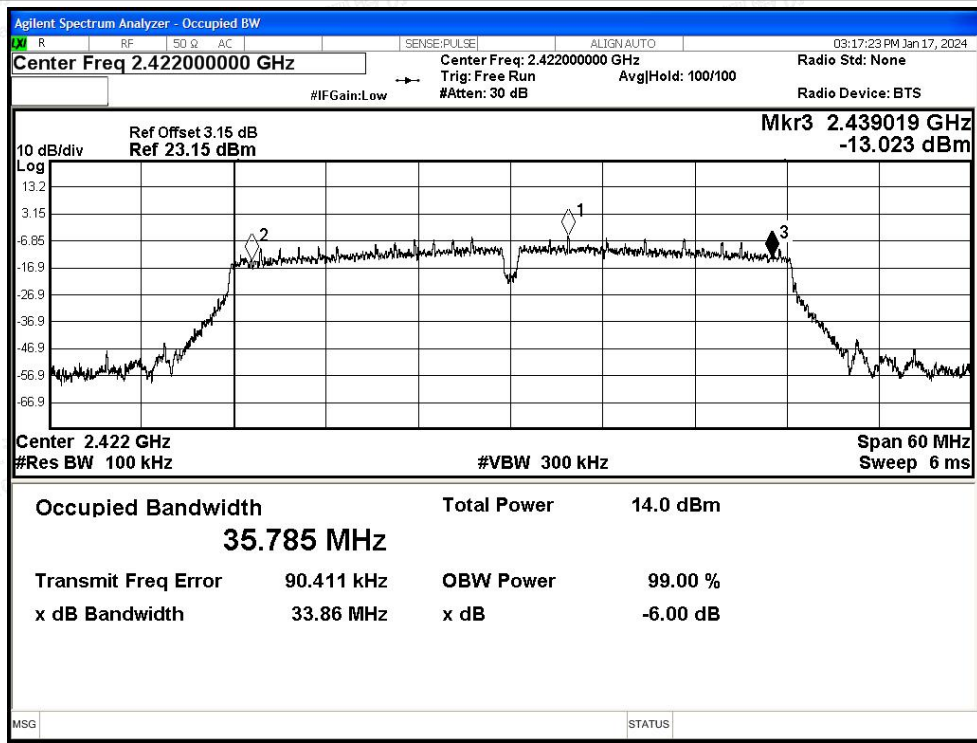




-6dB Bandwidth NVNT n20 2462MHz Ant1

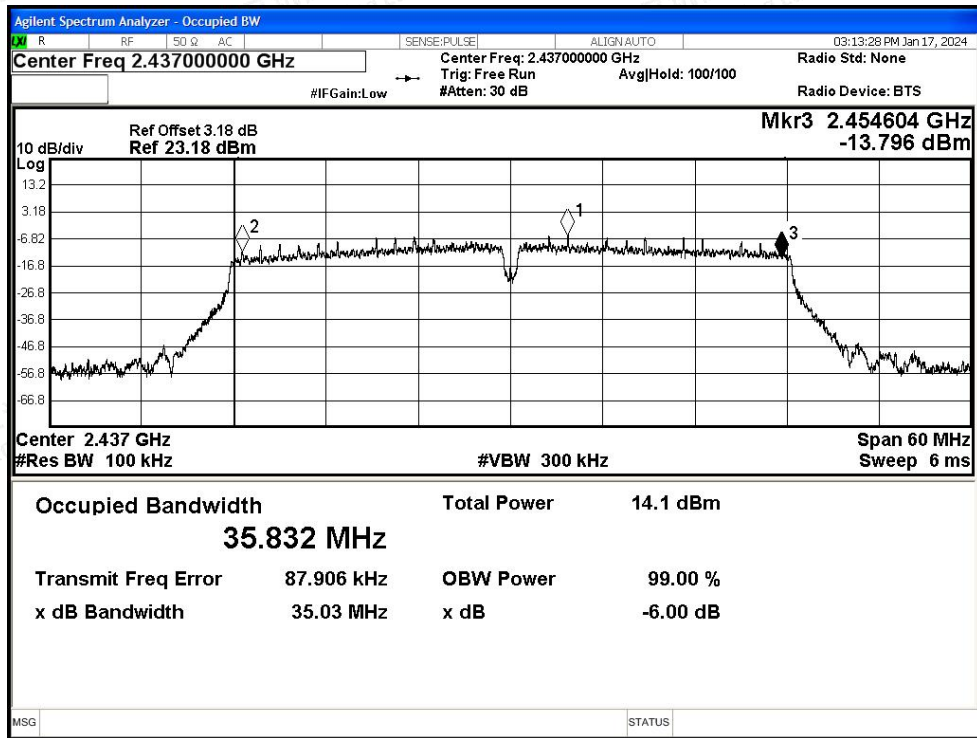


-6dB Bandwidth NVNT n40 2422MHz Ant1

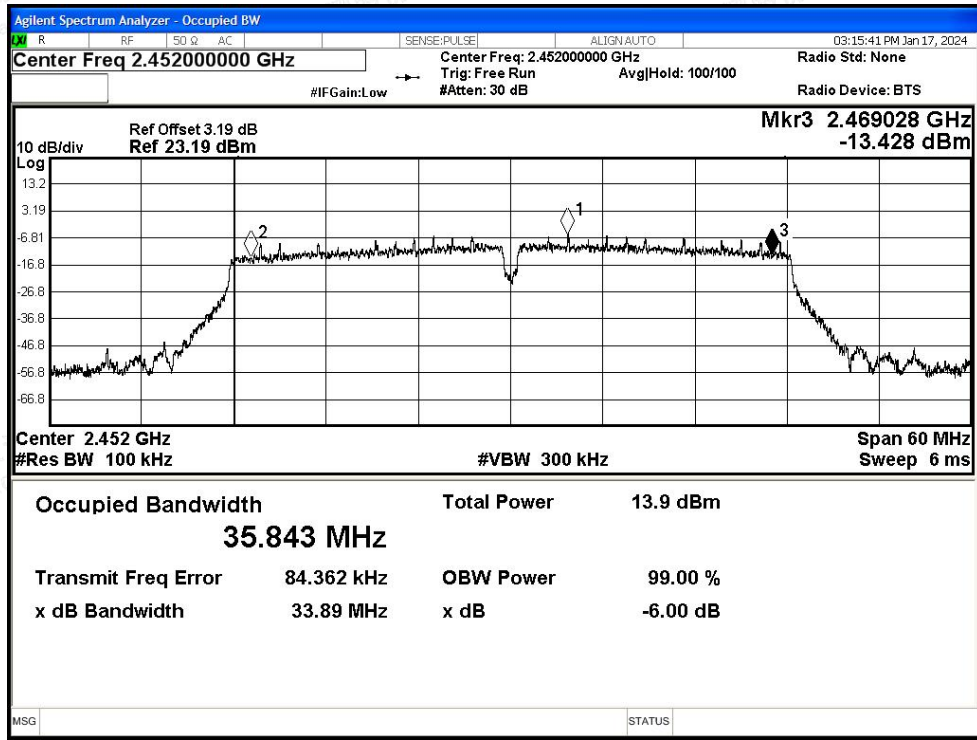




-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1





A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	15.25	0	15.25	30	Pass
NVNT	b	2437	Ant1	15.64	0	15.64	30	Pass
NVNT	b	2462	Ant1	15.53	0	15.53	30	Pass
NVNT	g	2412	Ant1	14.36	0	14.36	30	Pass
NVNT	g	2437	Ant1	14.42	0	14.42	30	Pass
NVNT	g	2462	Ant1	14.27	0	14.27	30	Pass
NVNT	n20	2412	Ant1	13.69	0	13.69	30	Pass
NVNT	n20	2437	Ant1	13.71	0	13.71	30	Pass
NVNT	n20	2462	Ant1	13.64	0	13.64	30	Pass
NVNT	n40	2422	Ant1	12.51	0	12.51	30	Pass
NVNT	n40	2437	Ant1	12.57	0	12.57	30	Pass
NVNT	n40	2452	Ant1	12.37	0	12.37	30	Pass



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A.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-7.27	8	Pass
NVNT	b	2437	Ant1	-8.22	8	Pass
NVNT	b	2462	Ant1	-8.99	8	Pass
NVNT	g	2412	Ant1	-15.06	8	Pass
NVNT	g	2437	Ant1	-15.17	8	Pass
NVNT	g	2462	Ant1	-14.56	8	Pass
NVNT	n20	2412	Ant1	-16.25	8	Pass
NVNT	n20	2437	Ant1	-16.2	8	Pass
NVNT	n20	2462	Ant1	-15.95	8	Pass
NVNT	n40	2422	Ant1	-18.29	8	Pass
NVNT	n40	2437	Ant1	-19.3	8	Pass
NVNT	n40	2452	Ant1	-17.88	8	Pass

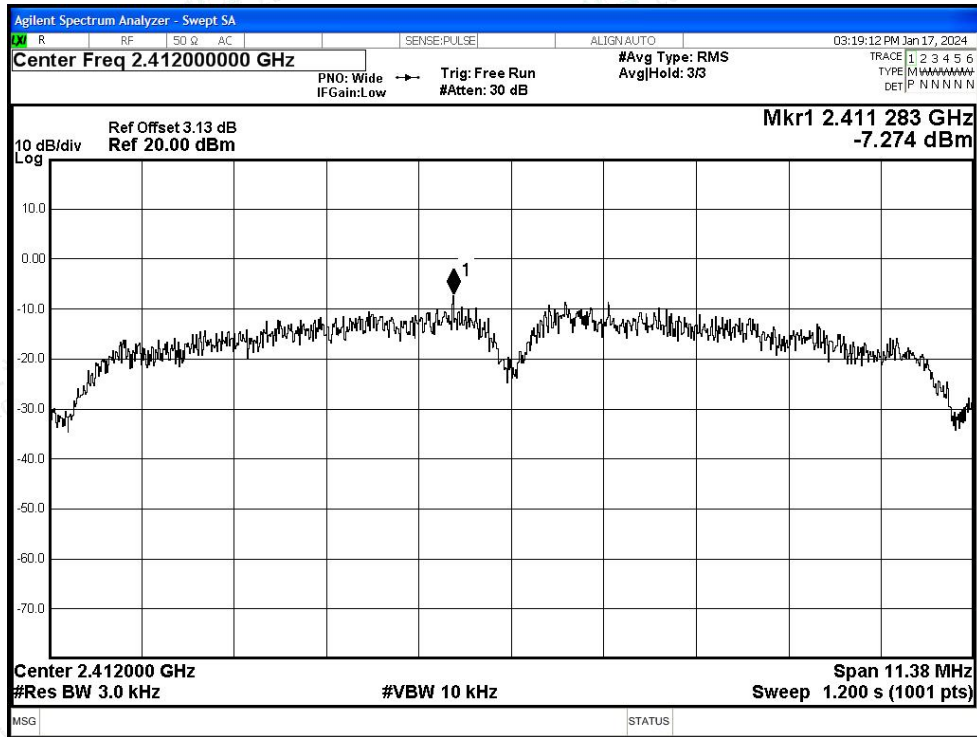


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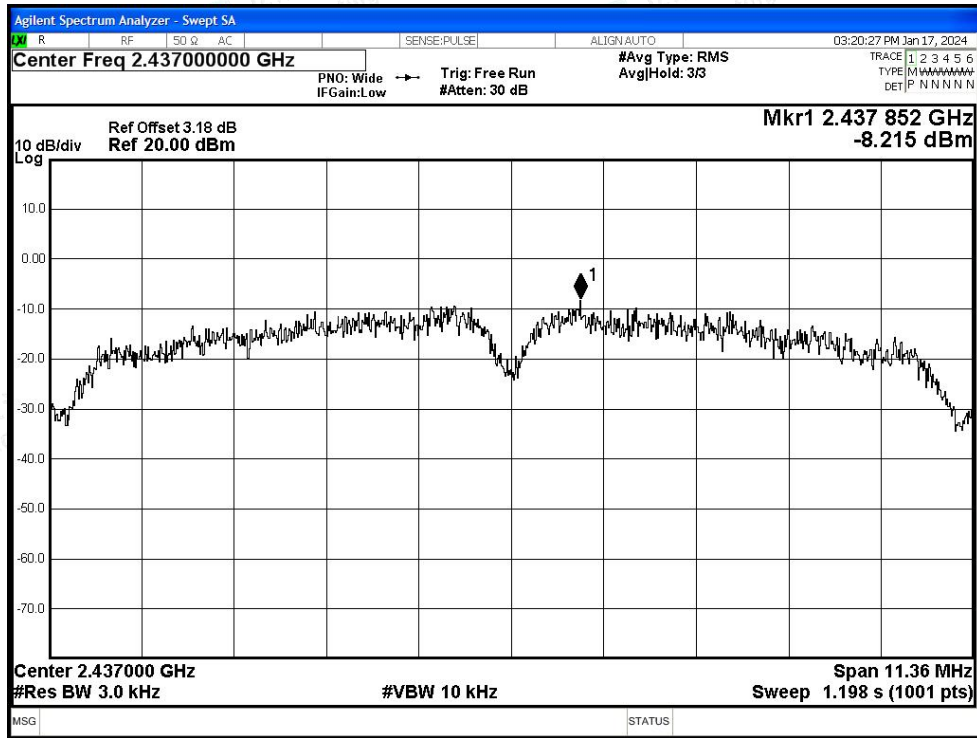


Test Graphs

PSD NVNT b 2412MHz Ant1

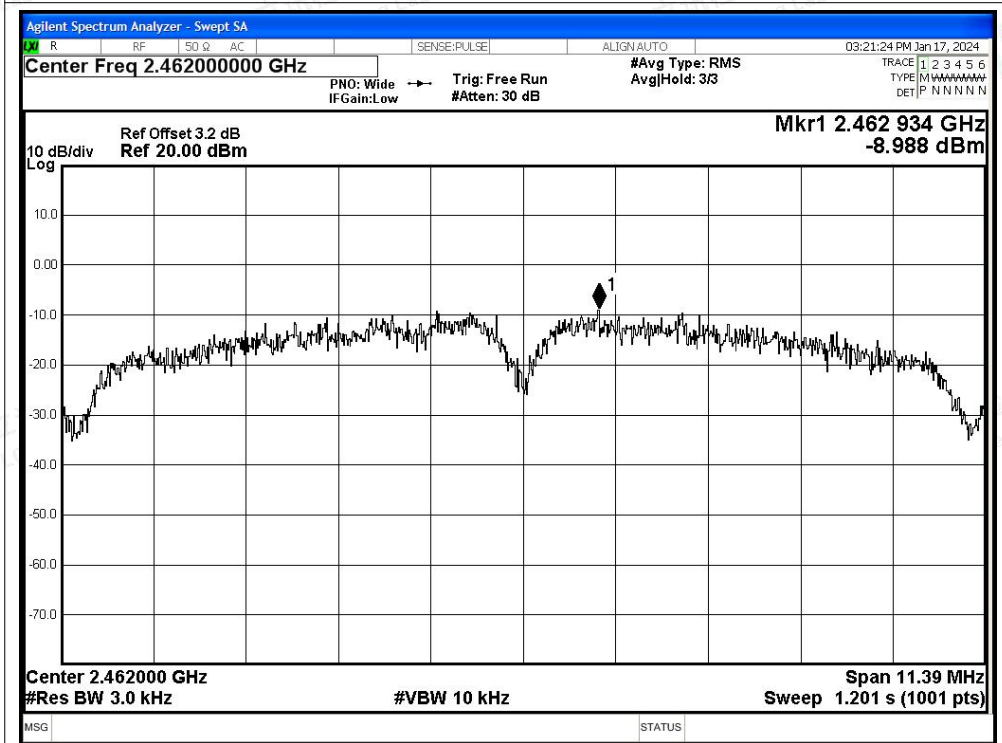


PSD NVNT b 2437MHz Ant1

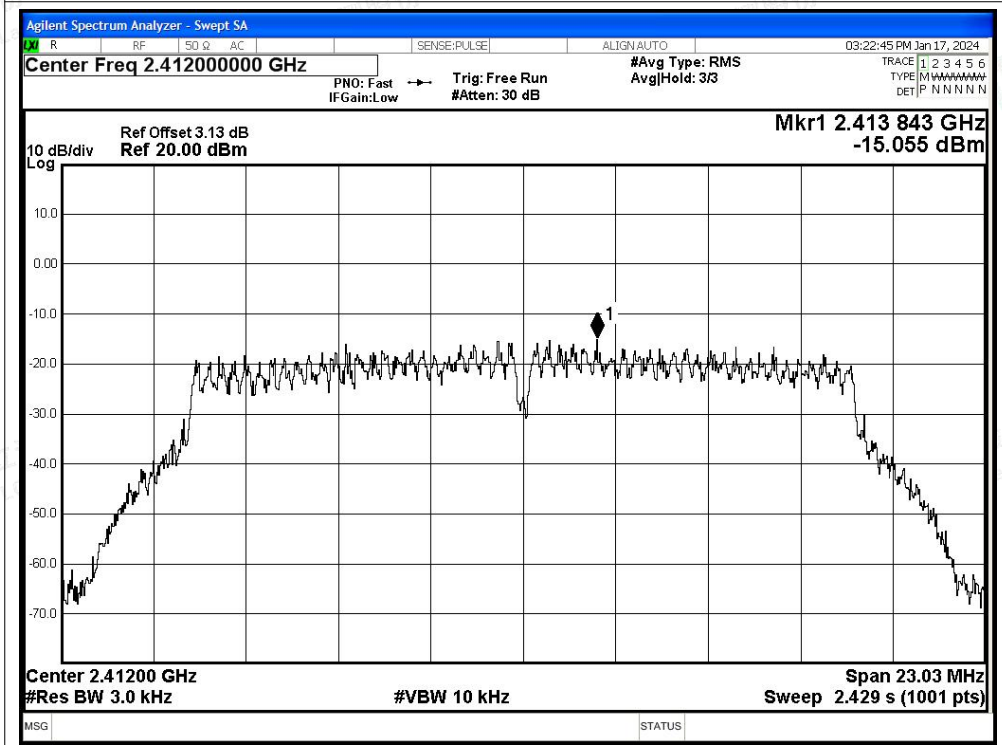




PSD NVNT b 2462MHz Ant1

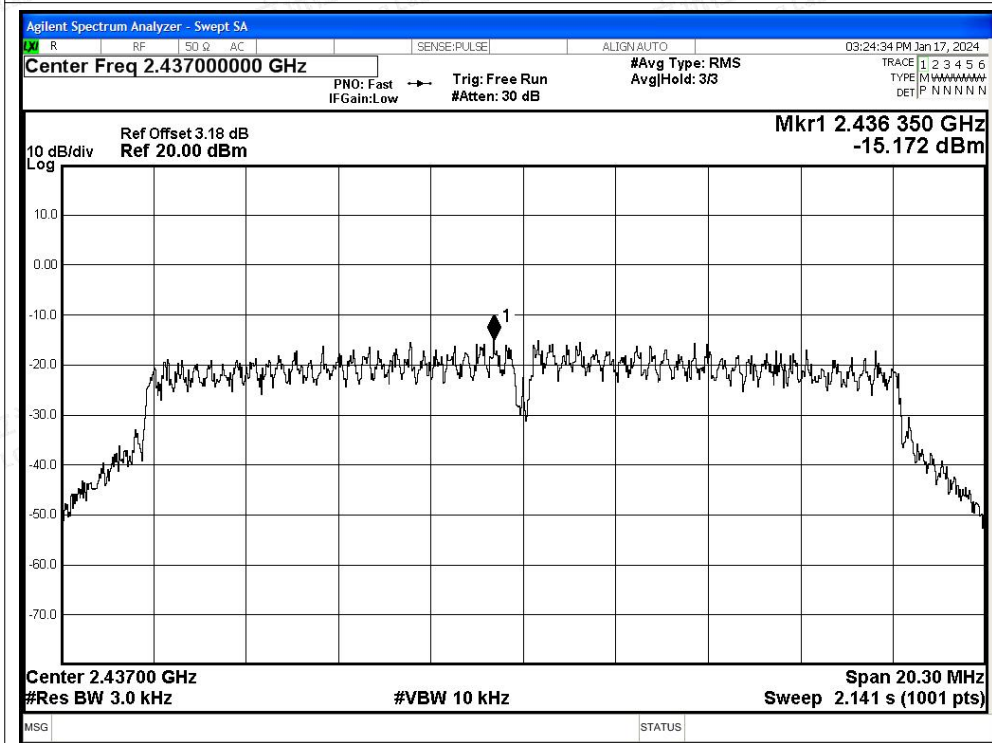


PSD NVNT g 2412MHz Ant1

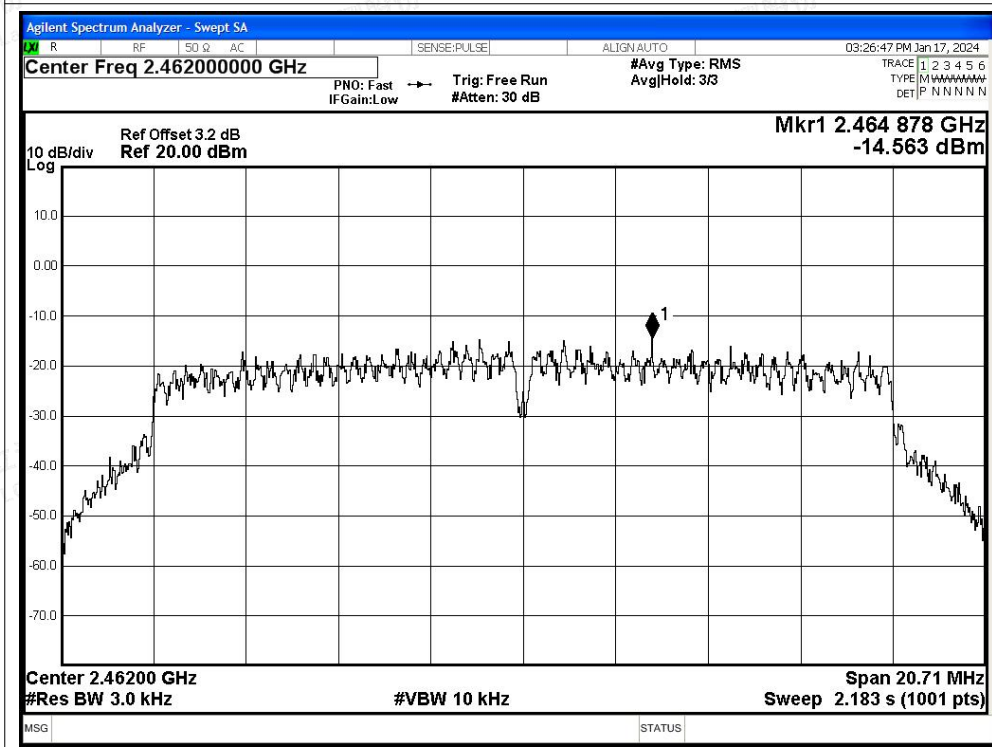




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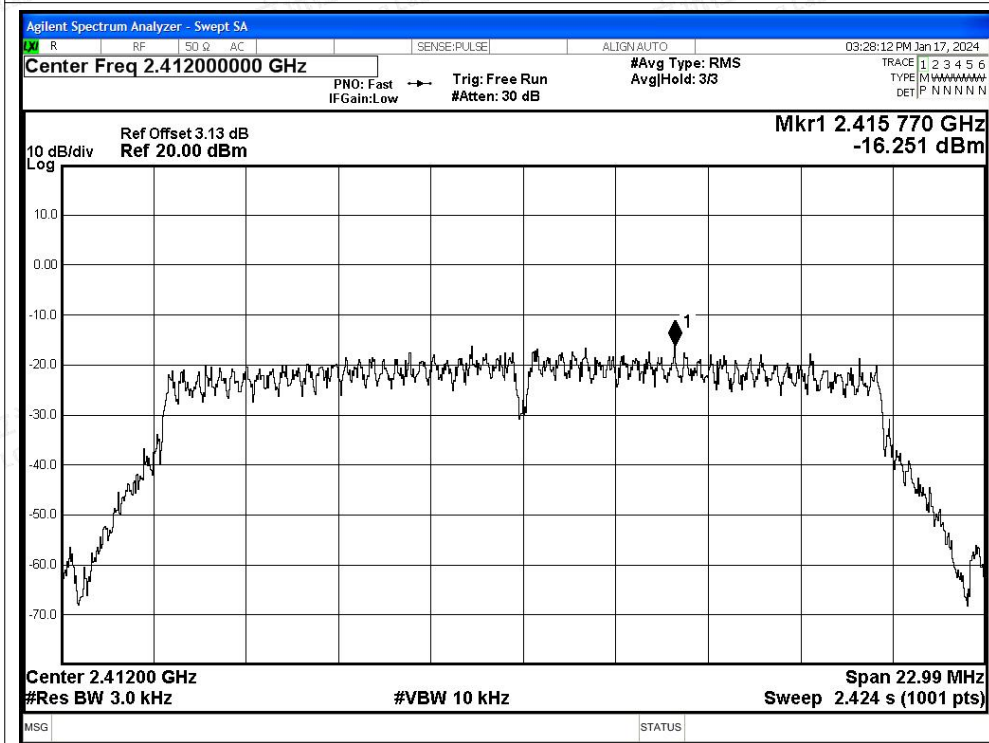


PSD NVNT g 2462MHz Ant1

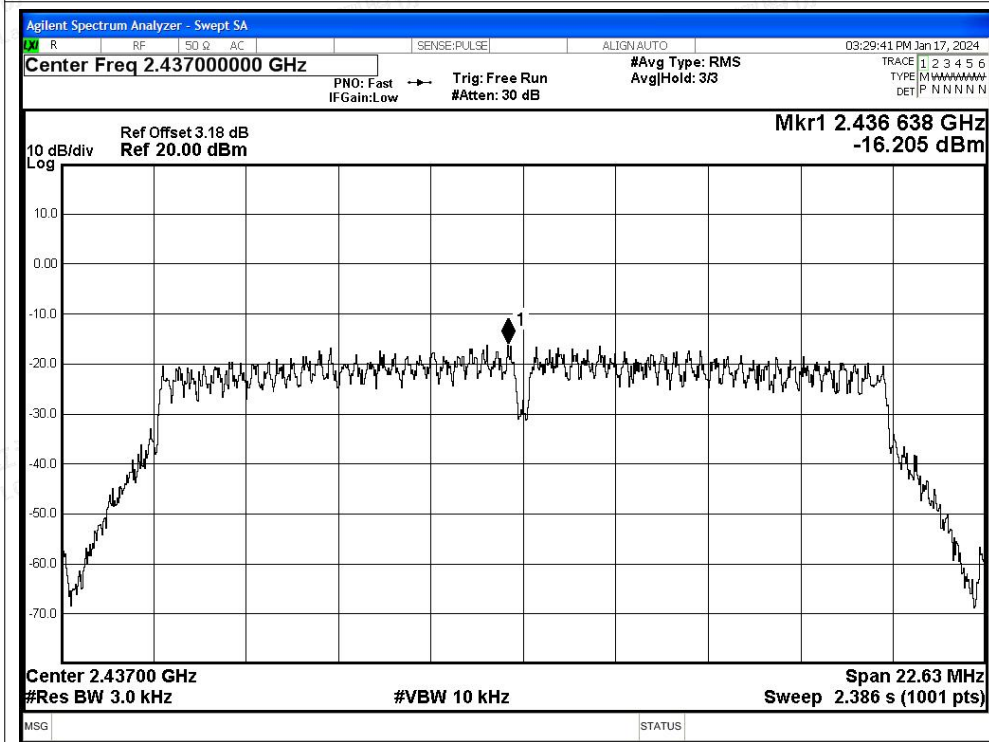


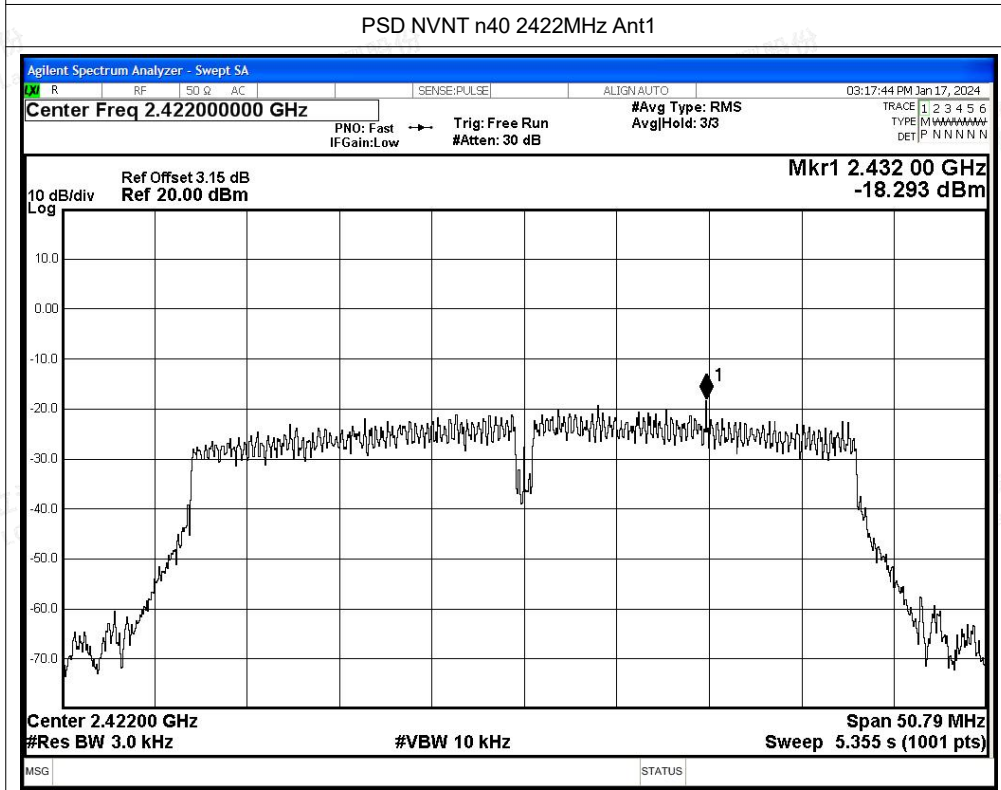
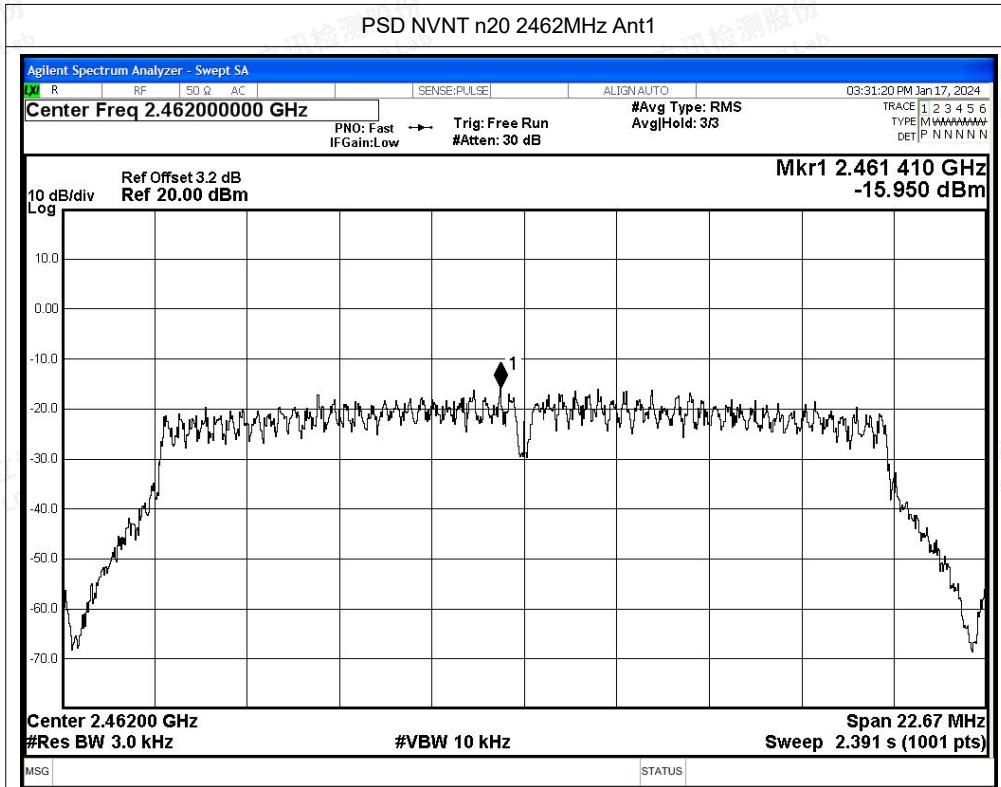


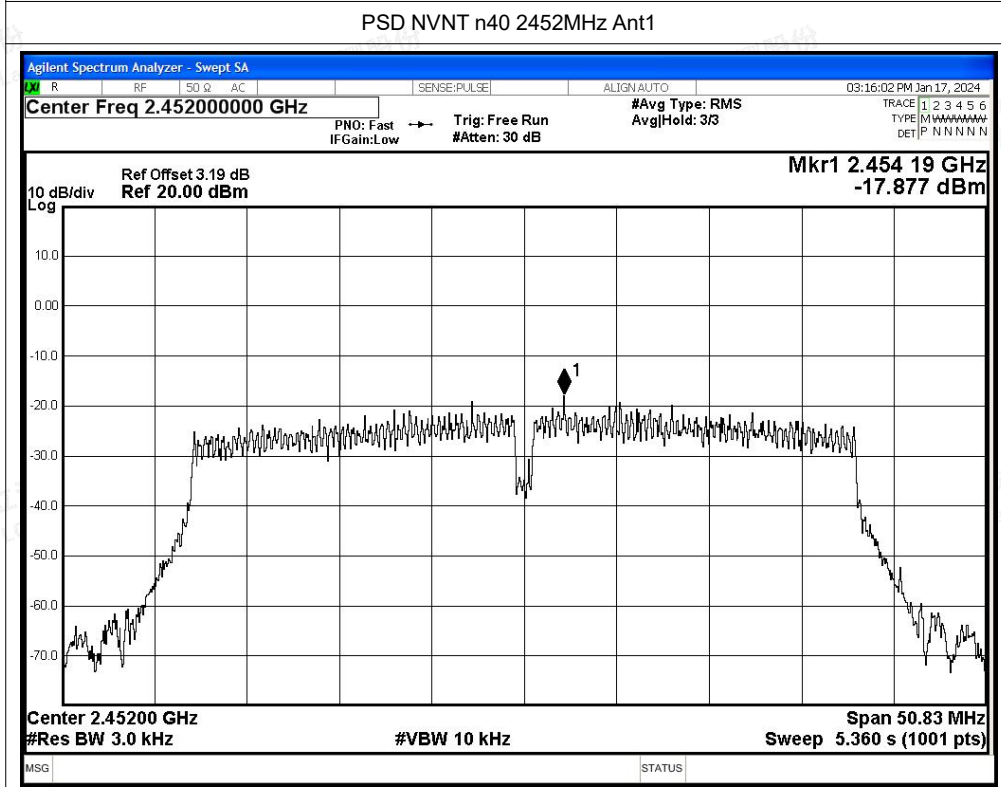
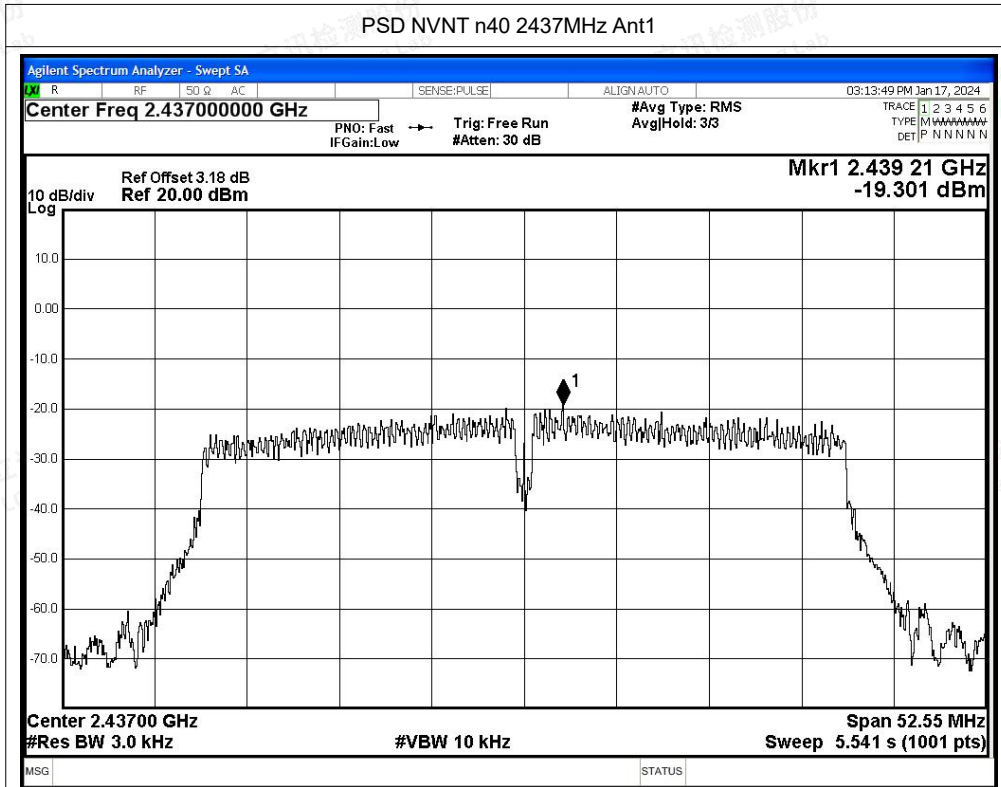
PSD NVNT n20 2412MHz Ant1



PSD NVNT n20 2437MHz Ant1









A.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-52.84	-20	Pass
NVNT	b	2462	Ant1	-58.44	-20	Pass
NVNT	g	2412	Ant1	-42.31	-20	Pass
NVNT	g	2462	Ant1	-51.28	-20	Pass
NVNT	n20	2412	Ant1	-44.26	-20	Pass
NVNT	n20	2462	Ant1	-52.57	-20	Pass
NVNT	n40	2422	Ant1	-40.17	-20	Pass
NVNT	n40	2452	Ant1	-46.04	-20	Pass

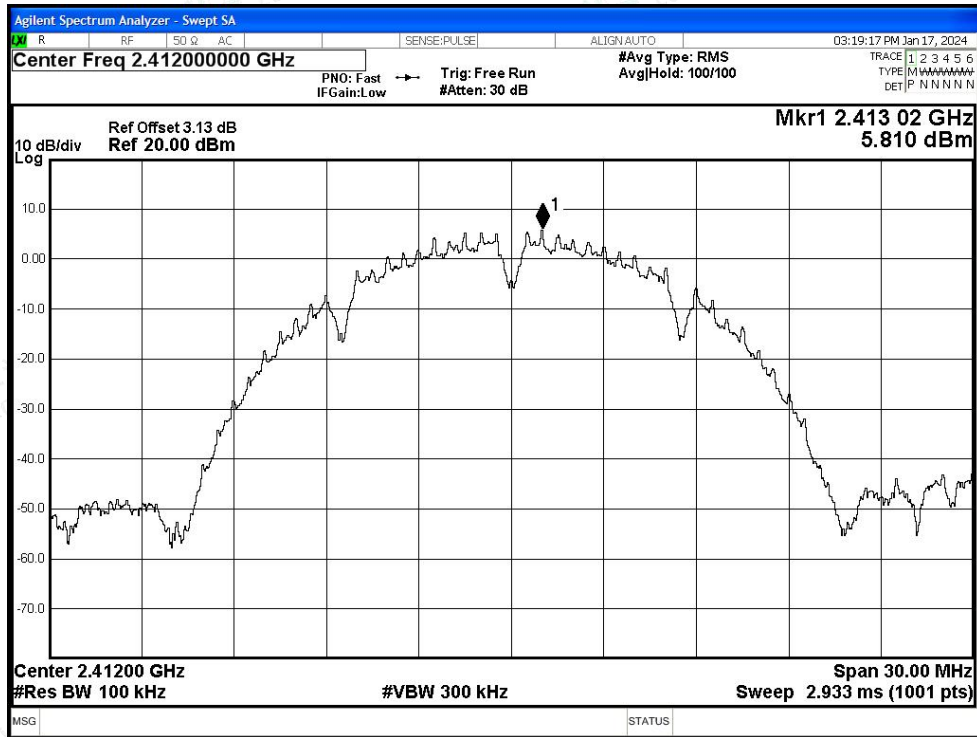


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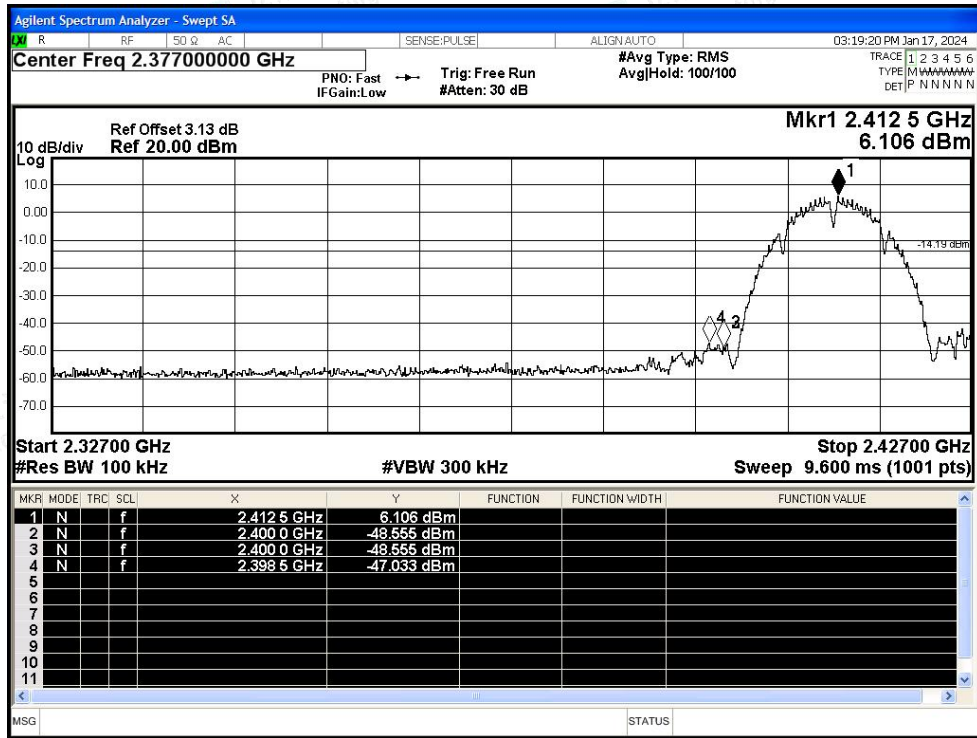


Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref

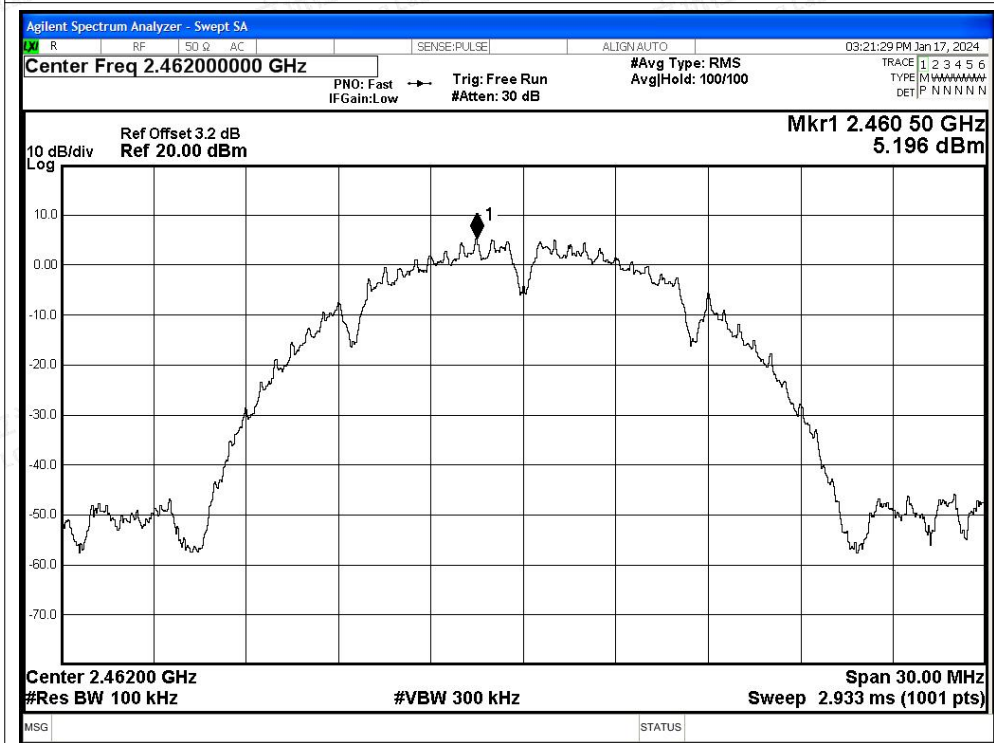


Band Edge NVNT b 2412MHz Ant1 Emission

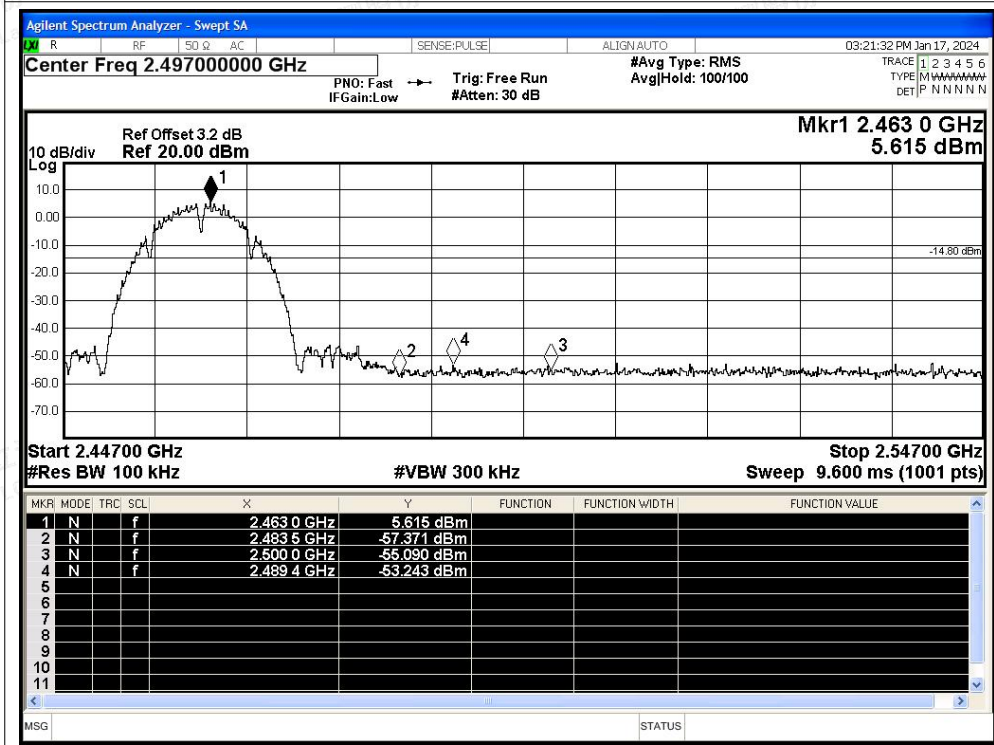




Band Edge NVNT b 2462MHz Ant1 Ref

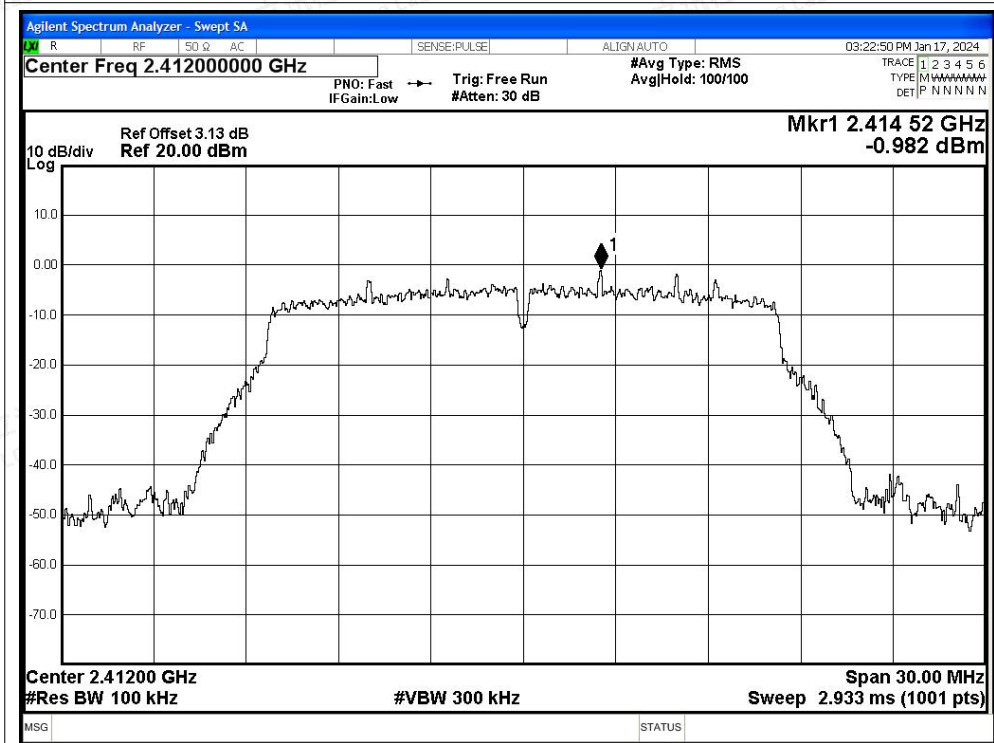


Band Edge NVNT b 2462MHz Ant1 Emission

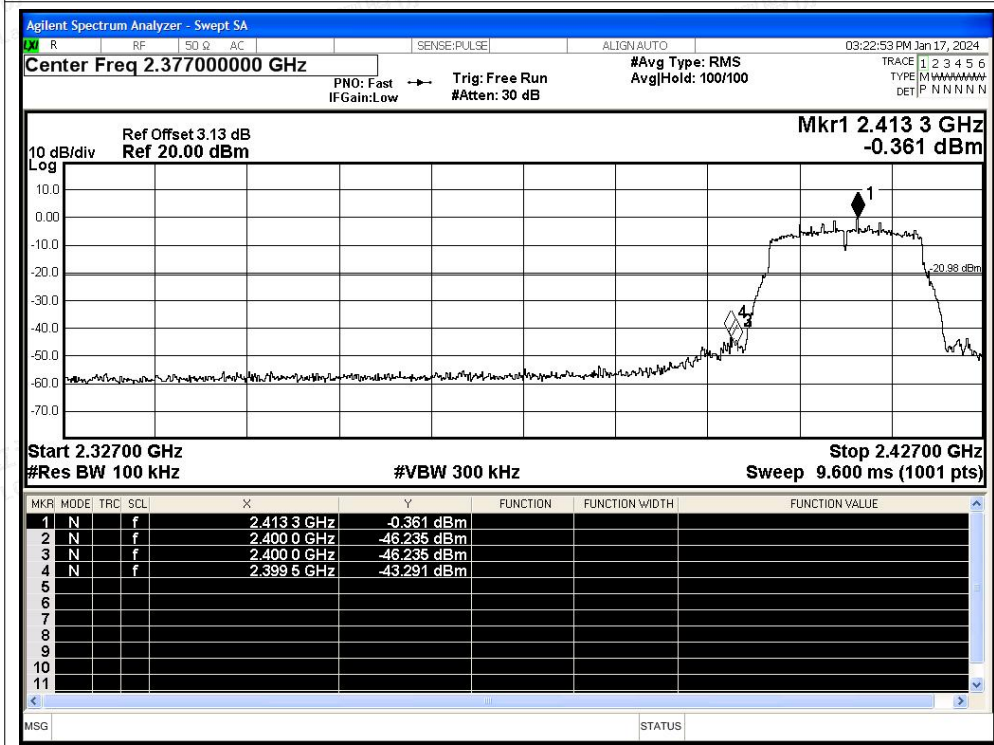




Band Edge NVNT g 2412MHz Ant1 Ref

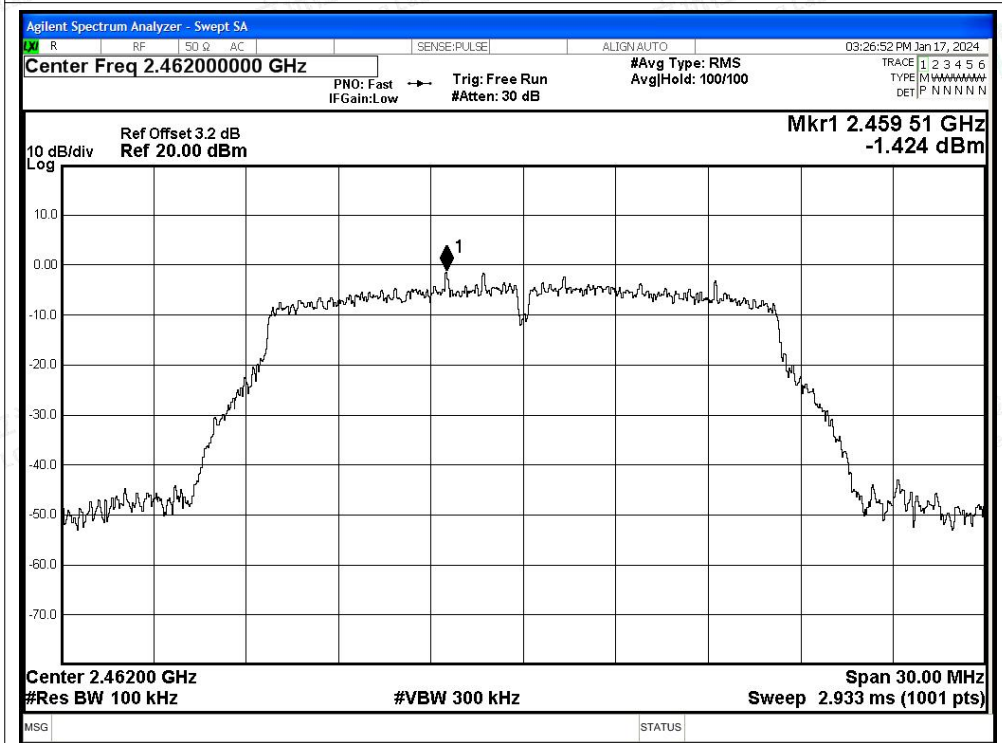


Band Edge NVNT g 2412MHz Ant1 Emission

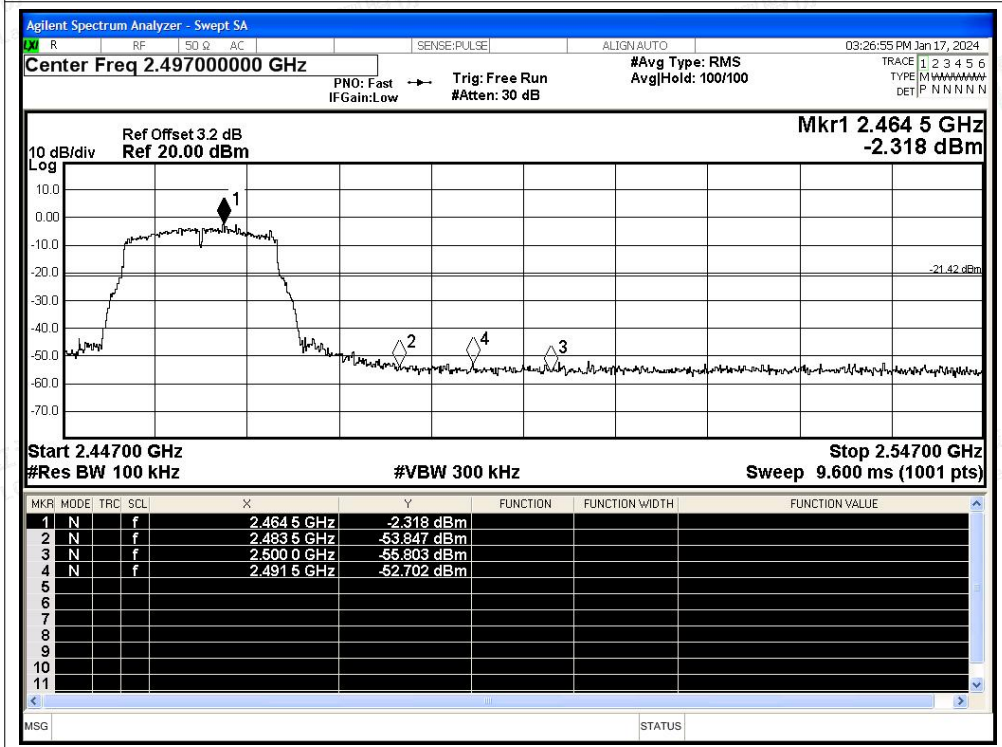




Band Edge NVNT g 2462MHz Ant1 Ref

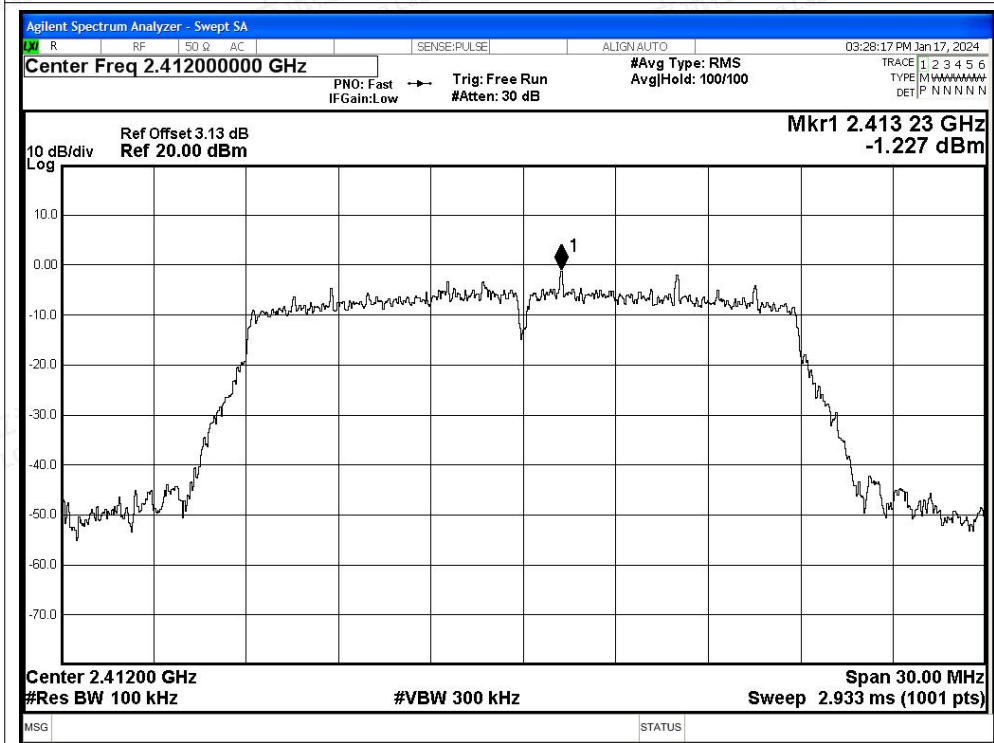


Band Edge NVNT g 2462MHz Ant1 Emission

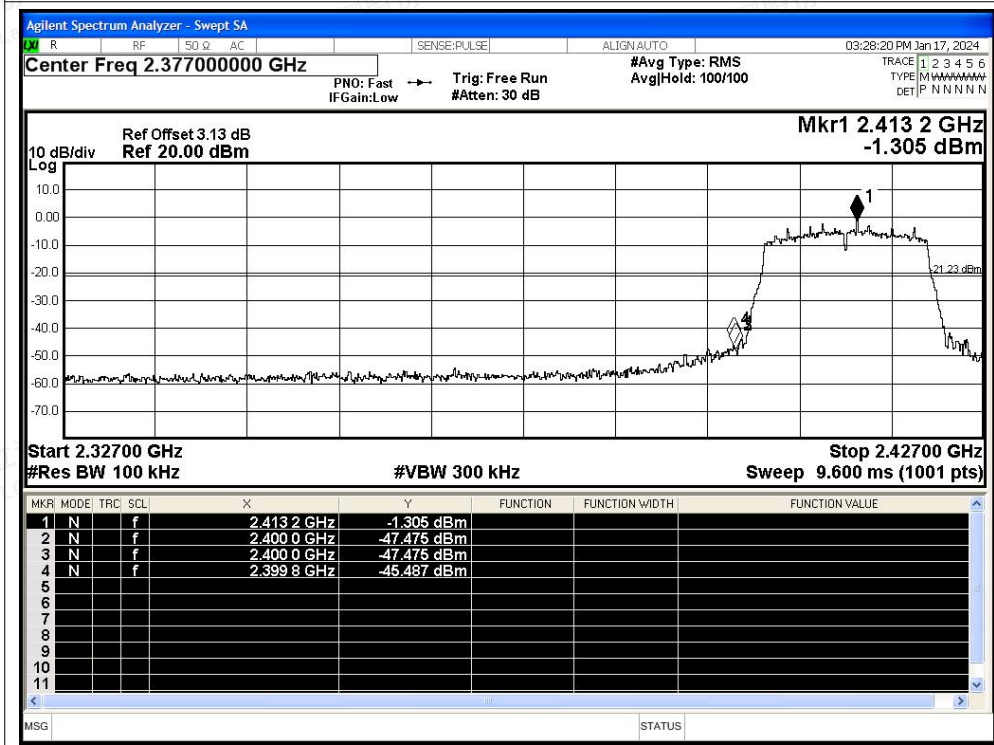




Band Edge NVNT n20 2412MHz Ant1 Ref

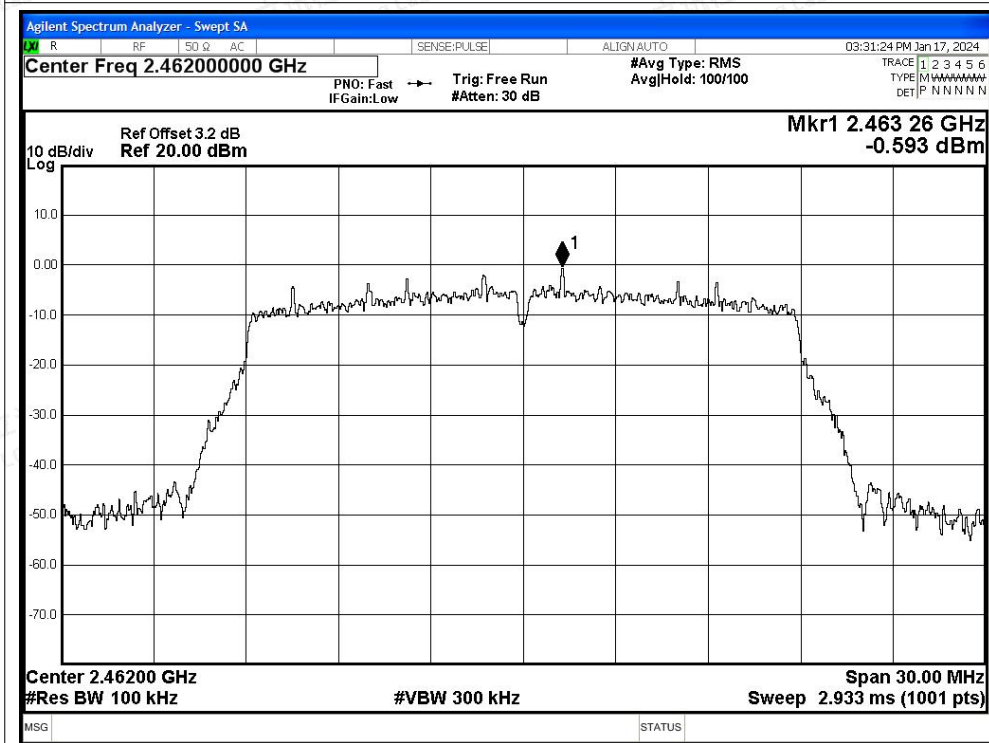


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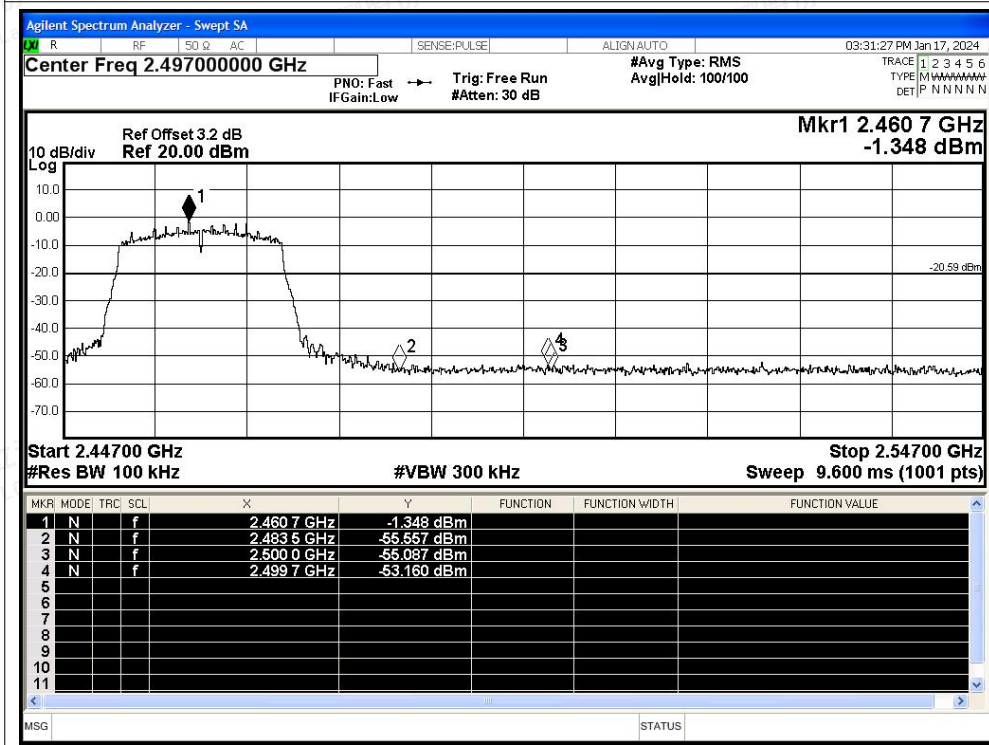




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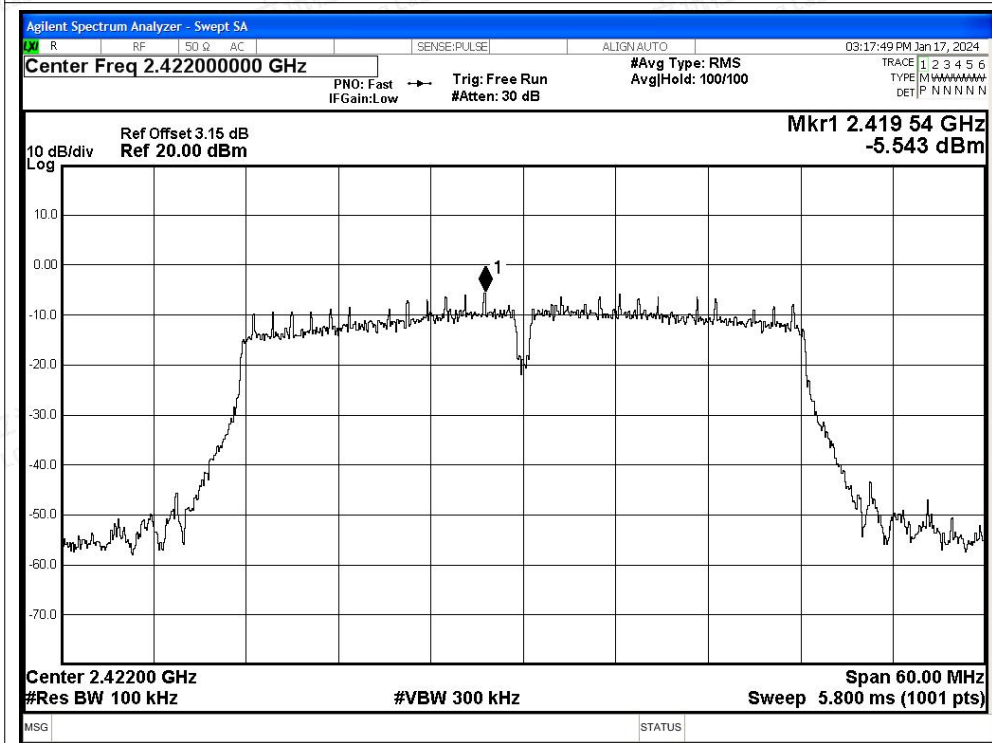


Band Edge NVNT n20 2462MHz Ant1 Emission





Band Edge NVNT n40 2422MHz Ant1 Ref



Band Edge NVNT n40 2422MHz Ant1 Emission

