Appendix C

RF Test Data for 2.4GWIFI(Conducted Measurement)

Product Name: SEI700CCOAS

Test Model: SN8BKFF

Environmental Conditions

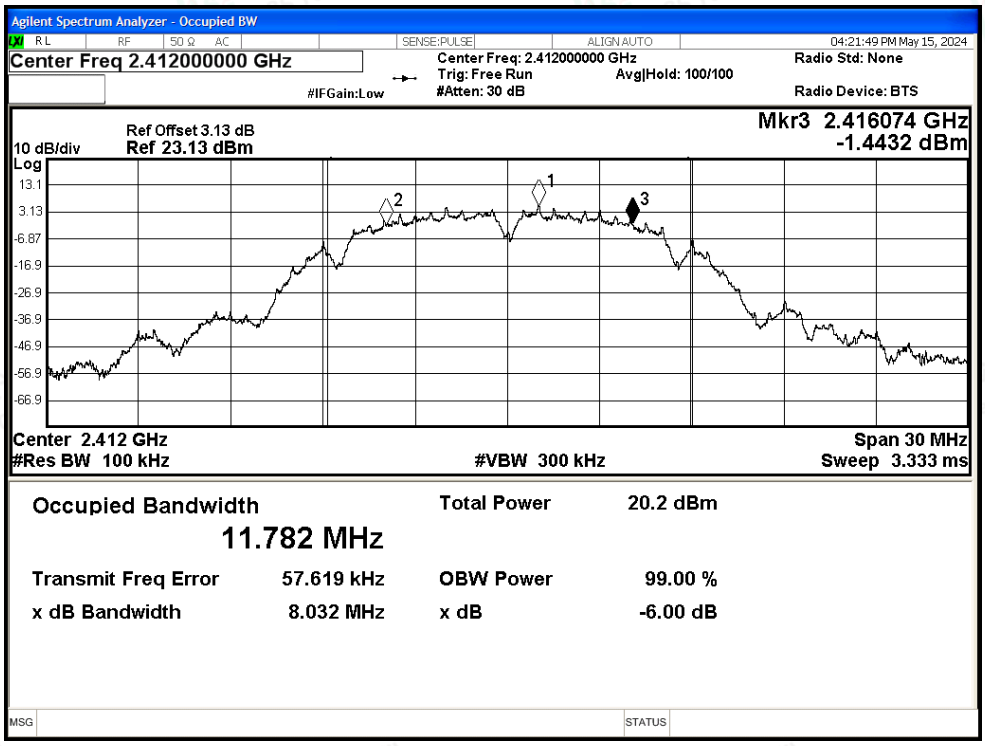
Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng

C.1 -6dB Bandwidth

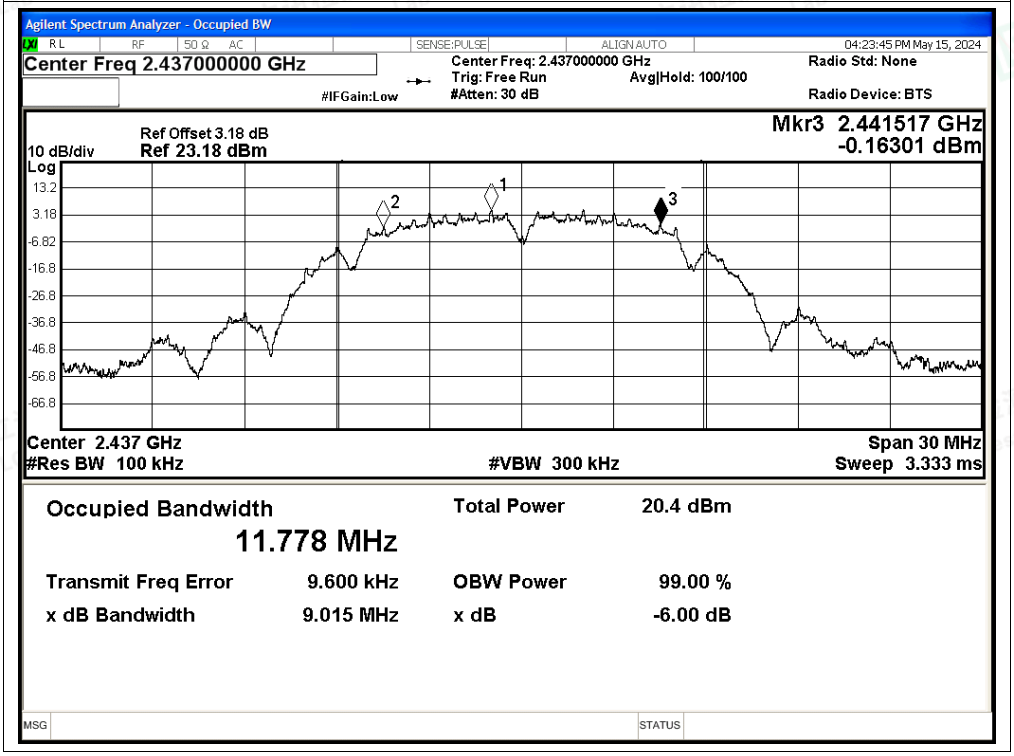
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.032	>=0.5	Pass
NVNT	b	2437	Ant1	9.015	>=0.5	Pass
NVNT	b	2462	Ant1	8.602	>=0.5	Pass
NVNT	g	2412	Ant1	16.057	>=0.5	Pass
NVNT	g	2437	Ant1	16.332	>=0.5	Pass
NVNT	g	2462	Ant1	16.379	>=0.5	Pass
NVNT	n20	2412	Ant1	16.715	>=0.5	Pass
NVNT	n20	2437	Ant1	17.413	>=0.5	Pass
NVNT	n20	2462	Ant1	17.026	>=0.5	Pass
NVNT	n40	2422	Ant1	35.745	>=0.5	Pass
NVNT	n40	2437	Ant1	36.136	>=0.5	Pass
NVNT	n40	2452	Ant1	35.263	>=0.5	Pass

Test Graphs

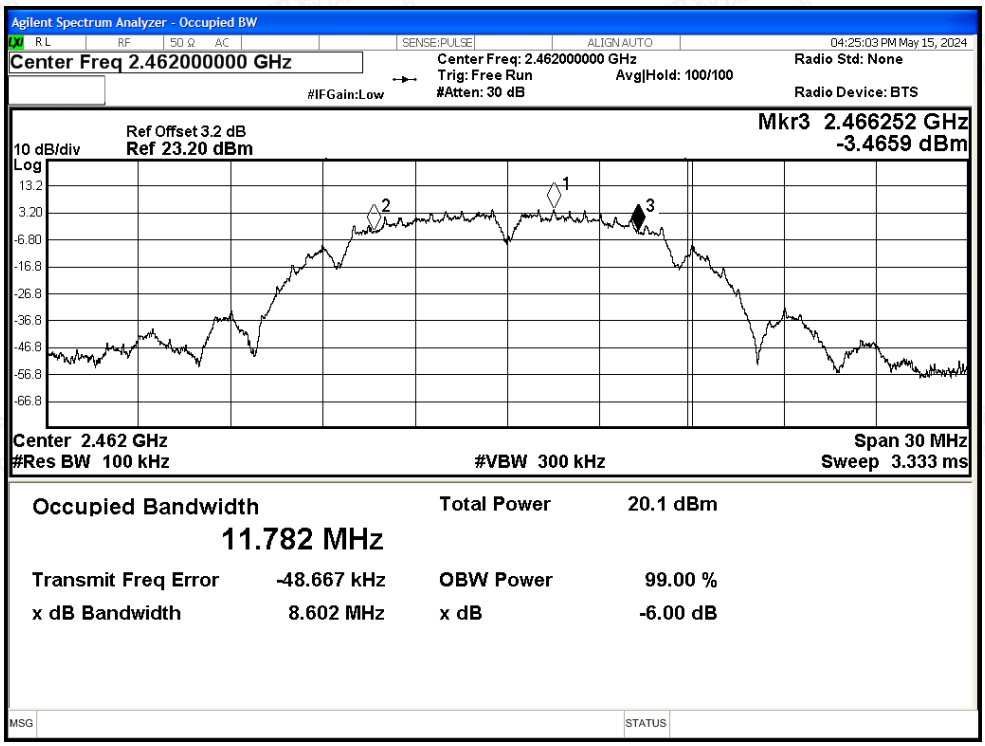
-6dB Bandwidth NVNT b 2412MHz Ant1



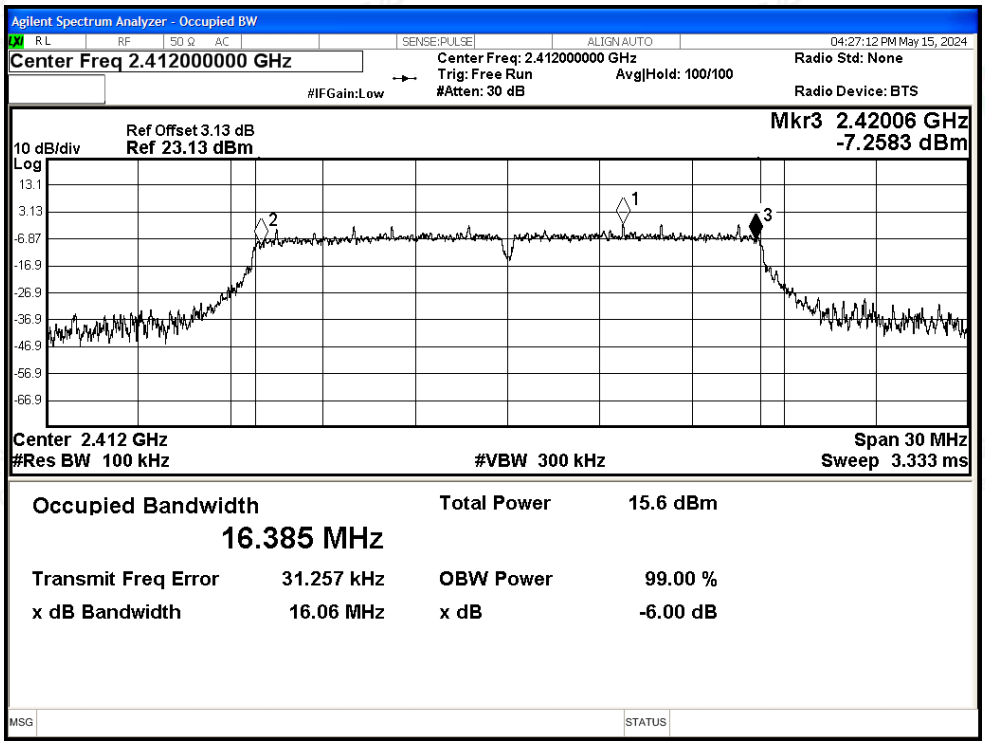
-6dB Bandwidth NVNT b 2437MHz Ant1



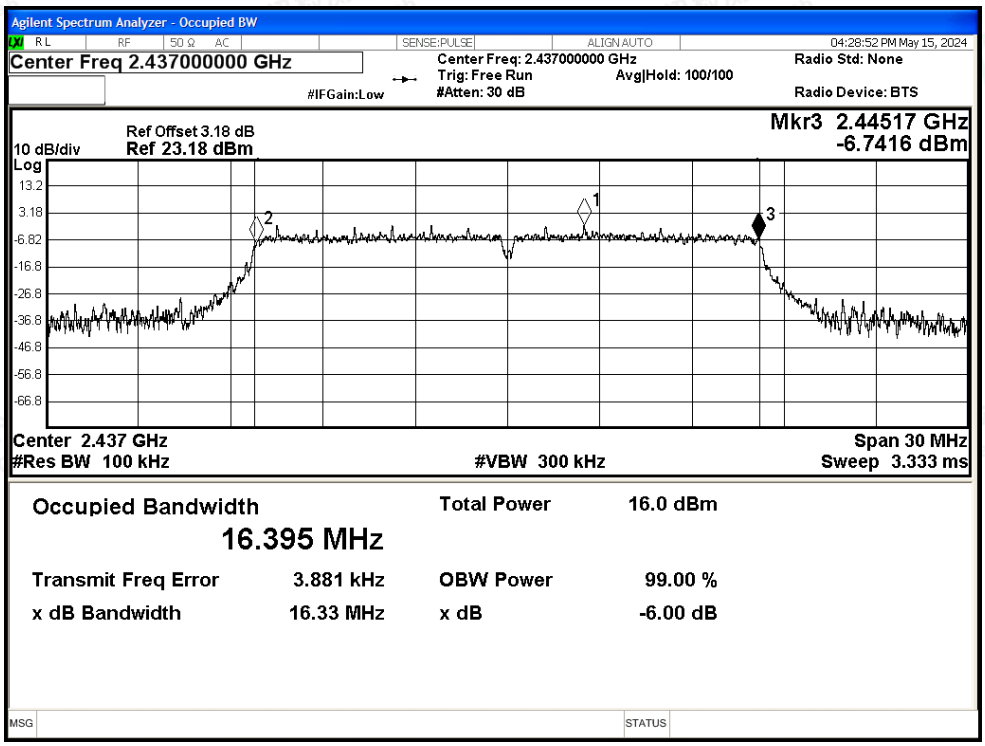
-6dB Bandwidth NVNT b 2462MHz Ant1



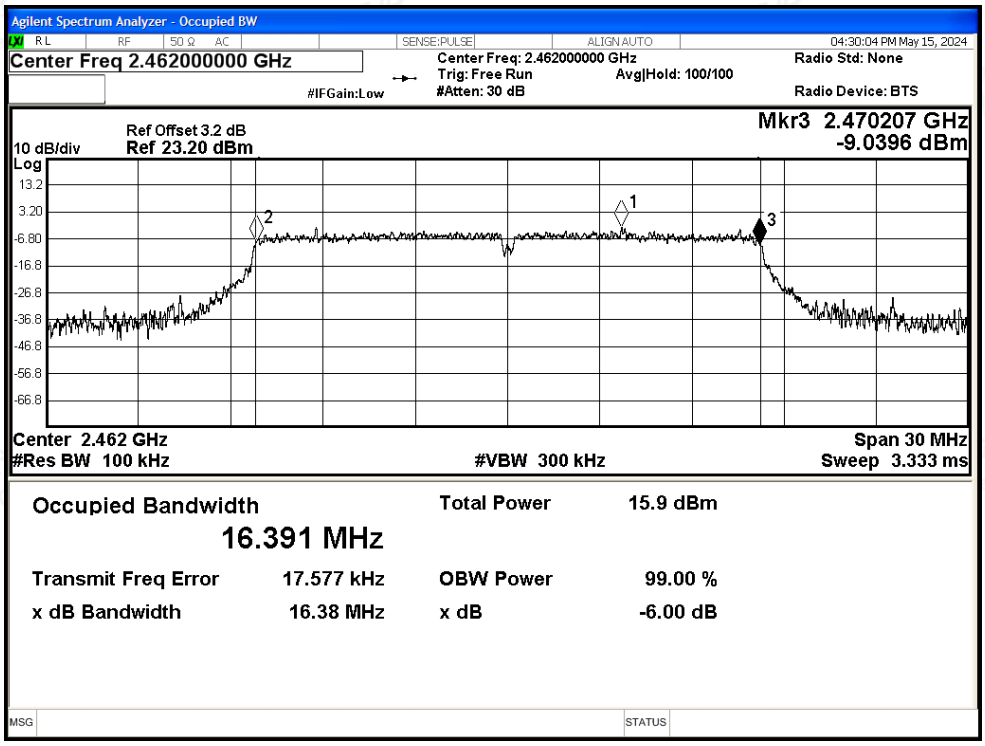
-6dB Bandwidth NVNT g 2412MHz Ant1



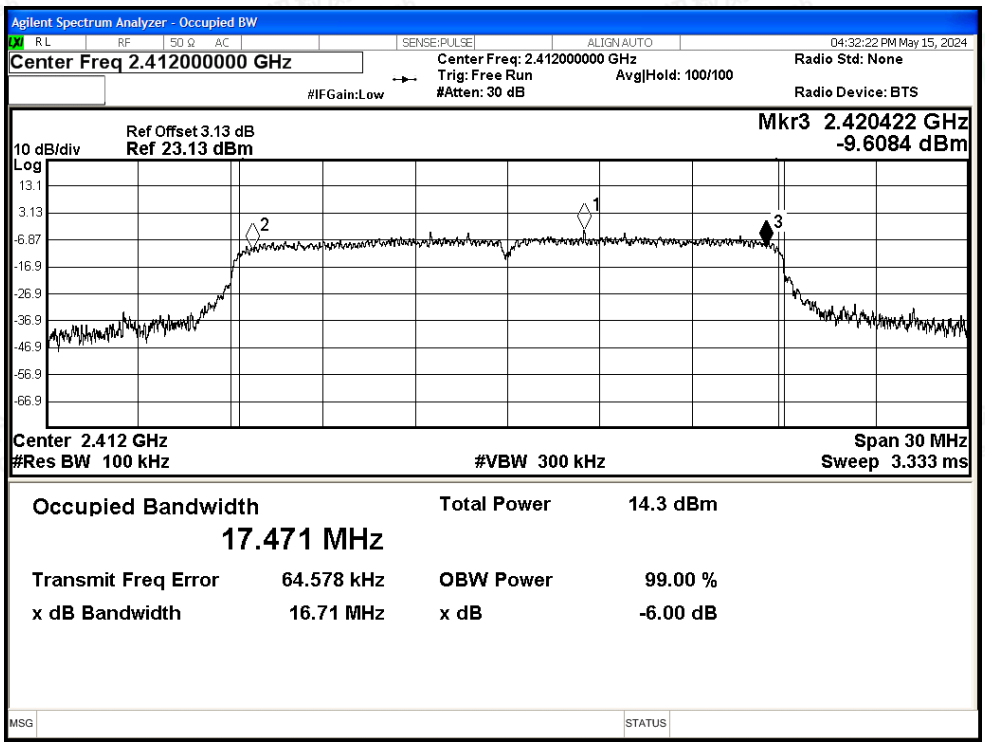
-6dB Bandwidth NVNT g 2437MHz Ant1



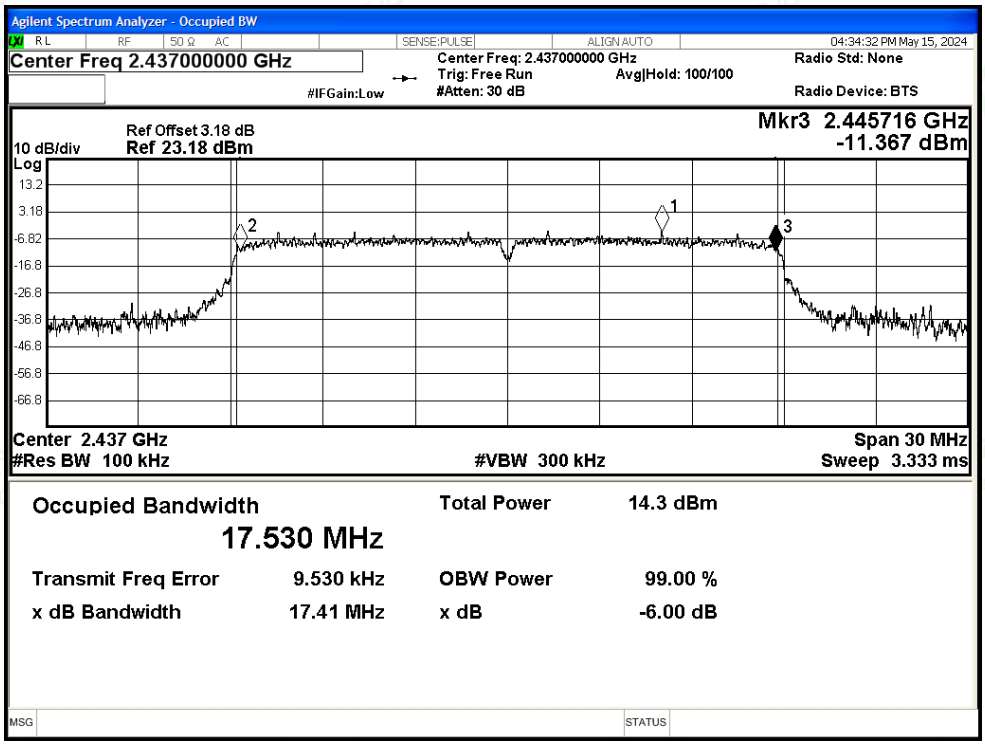
-6dB Bandwidth NVNT g 2462MHz Ant1



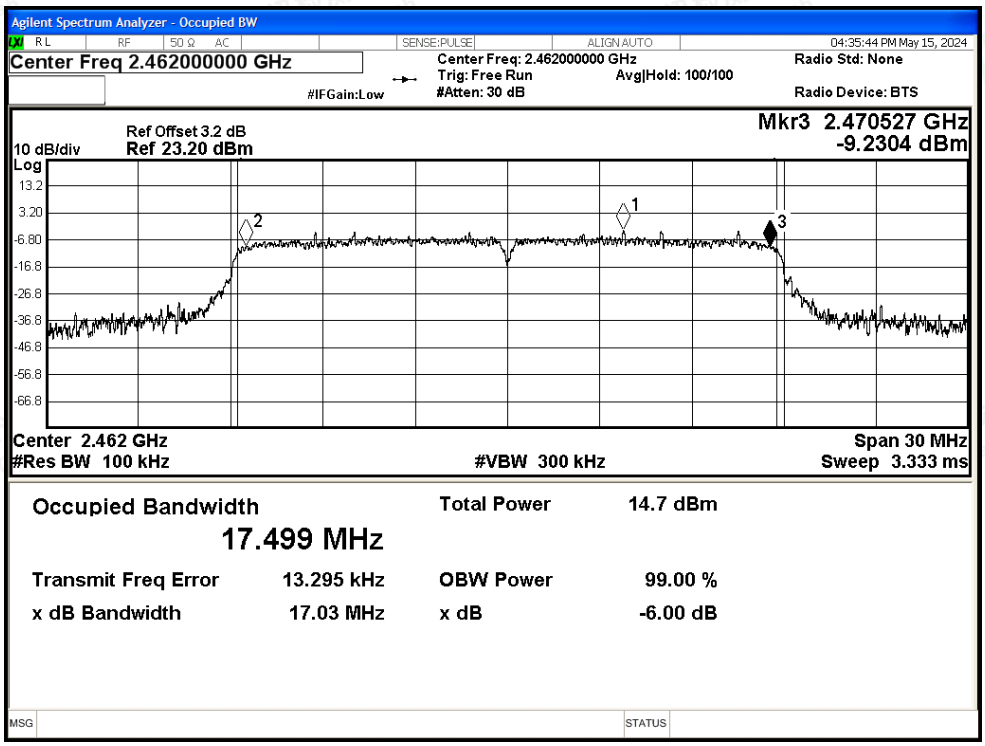
-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1

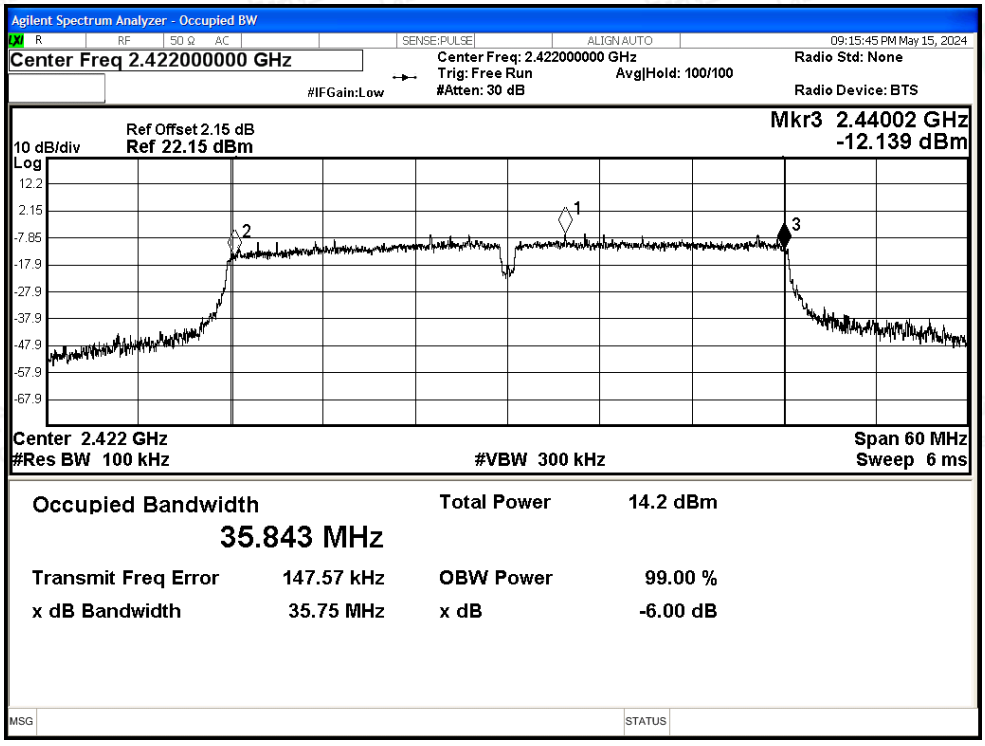


-6dB Bandwidth NVNT n20 2462MHz Ant1

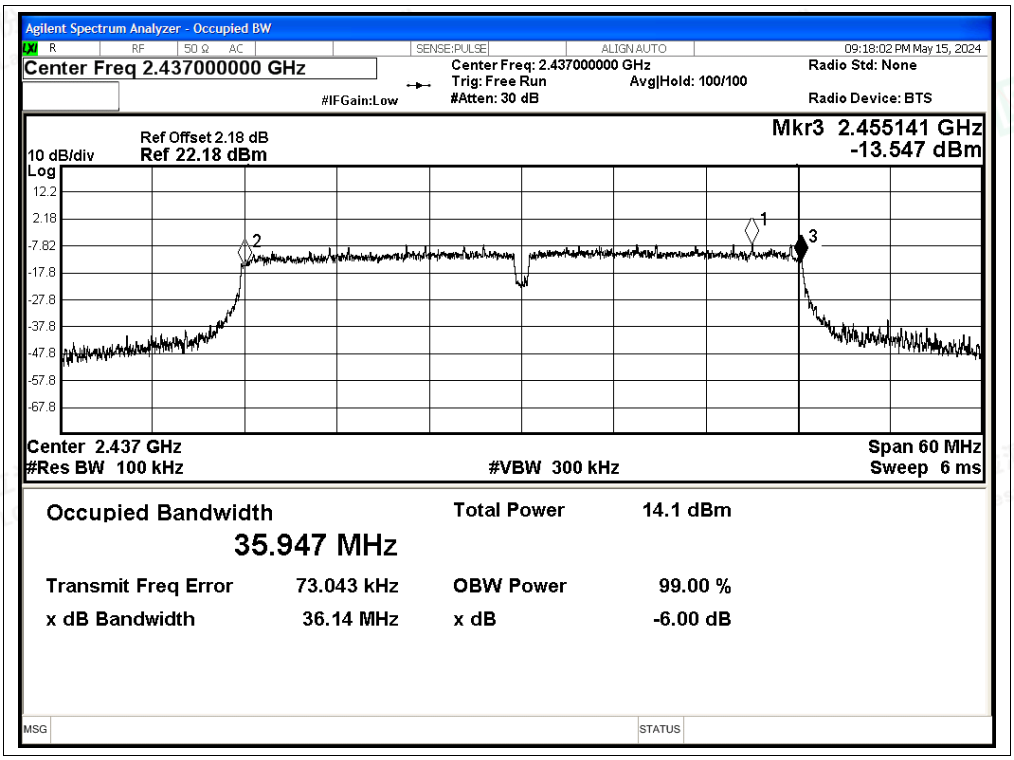


Test Graphs

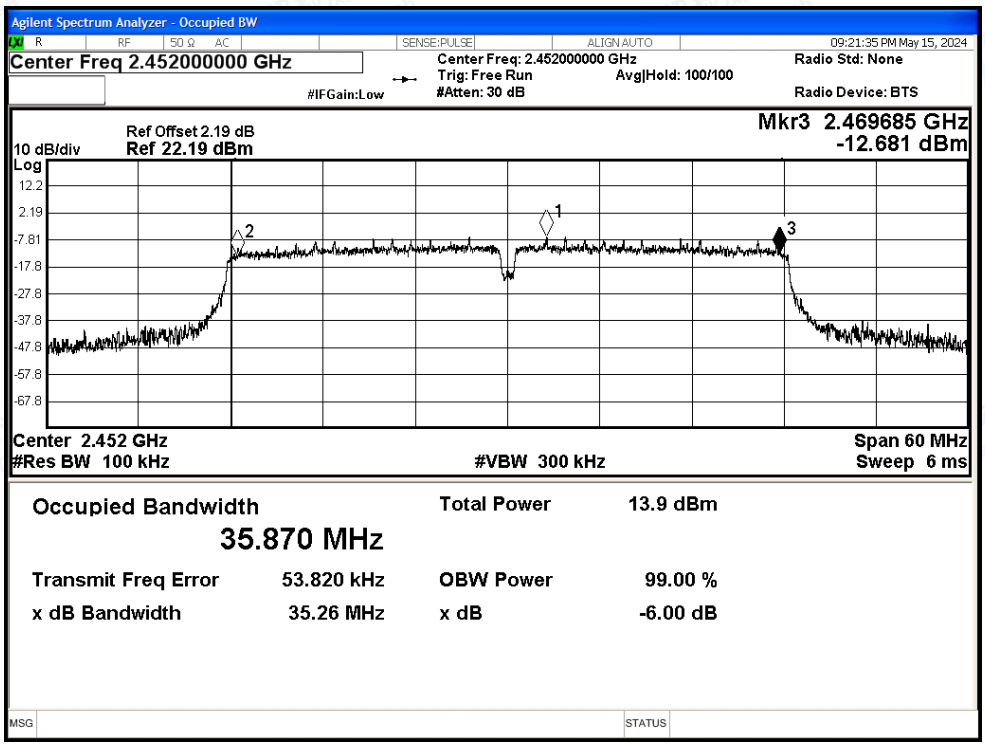
-6dB Bandwidth NVNT n40 2422MHz Ant1



-6dB Bandwidth NVNT n40 2437MHz Ant1


Agilent Spectrum Analyzer - Occupied BW
Center Freq 2.437000000 GHz
Center Freq: 2.437000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
09:18:02 PM May 15, 2024
Ref Offset 2.18 dB
10 dB/div
Ref 22.18 dBm
Mkr3 2.455141 GHz
-13.547 dBm
Center 2.437 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 60 MHz
Sweep 6 ms
Occupied Bandwidth
35.947 MHz
Total Power 14.1 dBm
Transmit Freq Error 73.043 kHz
OBW Power 99.00 %
x dB Bandwidth 36.14 MHz
x dB -6.00 dB

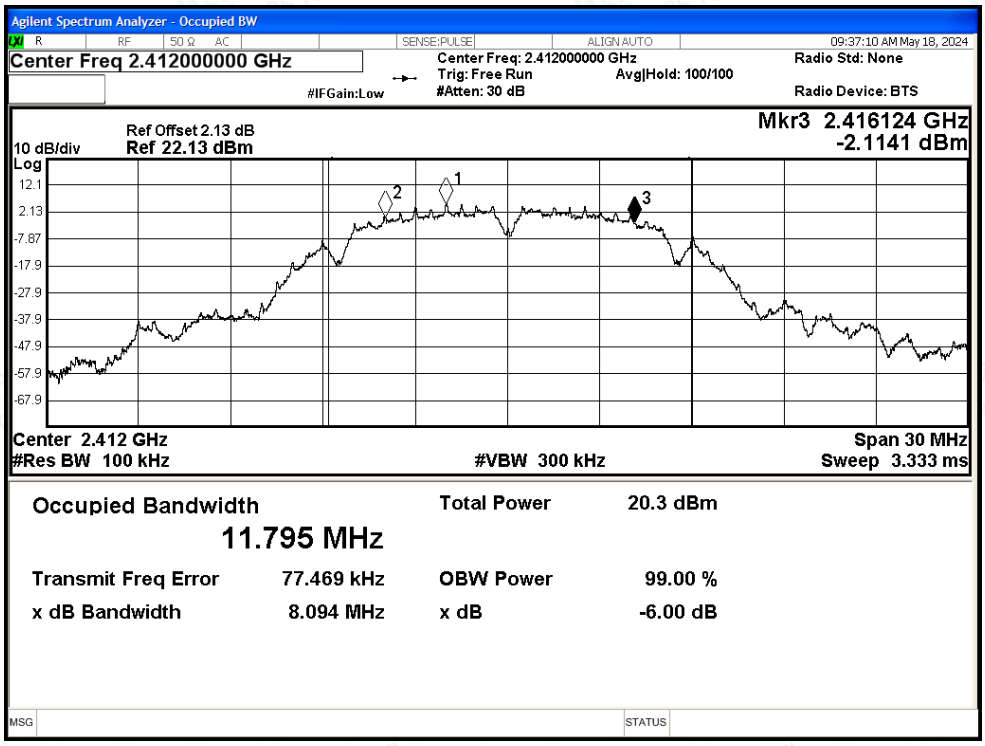
-6dB Bandwidth NVNT n40 2452MHz Ant1



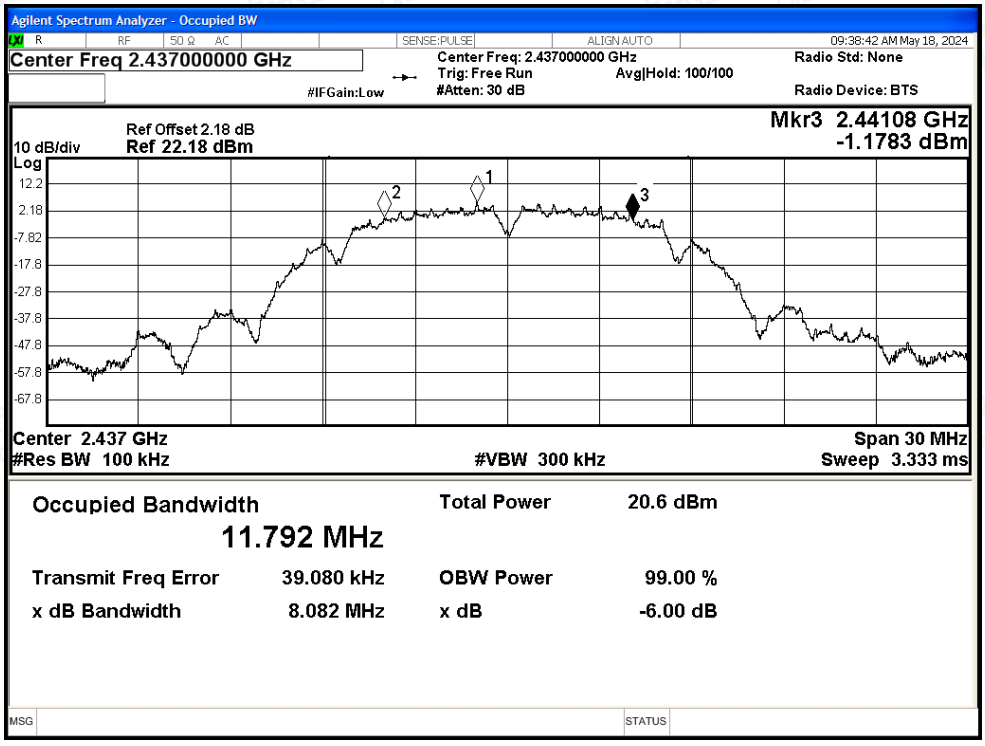
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant2	8.094	>=0.5	Pass
NVNT	b	2437	Ant2	8.082	>=0.5	Pass
NVNT	b	2462	Ant2	8.577	>=0.5	Pass
NVNT	g	2412	Ant2	16.077	>=0.5	Pass
NVNT	g	2437	Ant2	16.333	>=0.5	Pass
NVNT	g	2462	Ant2	16.322	>=0.5	Pass
NVNT	n20	2412	Ant2	17.094	>=0.5	Pass
NVNT	n20	2437	Ant2	17.019	>=0.5	Pass
NVNT	n20	2462	Ant2	17.343	>=0.5	Pass
NVNT	n40	2422	Ant2	35.065	>=0.5	Pass
NVNT	n40	2437	Ant2	35.185	>=0.5	Pass
NVNT	n40	2452	Ant2	35.34	>=0.5	Pass

Test Graphs

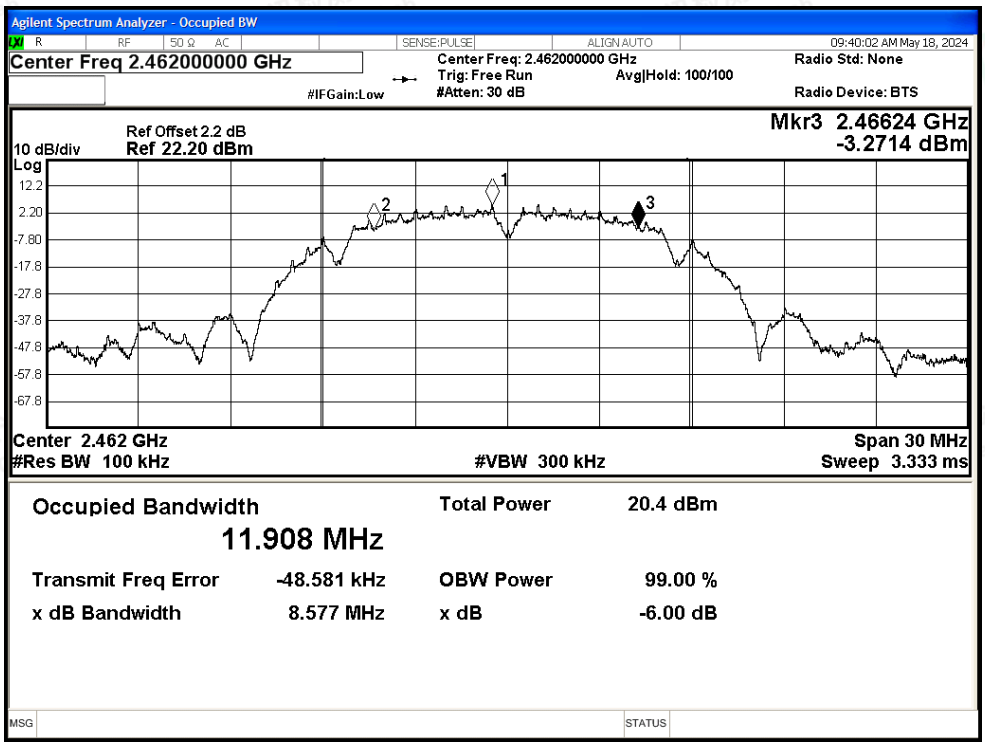
-6dB Bandwidth NVNT b 2412MHz Ant2



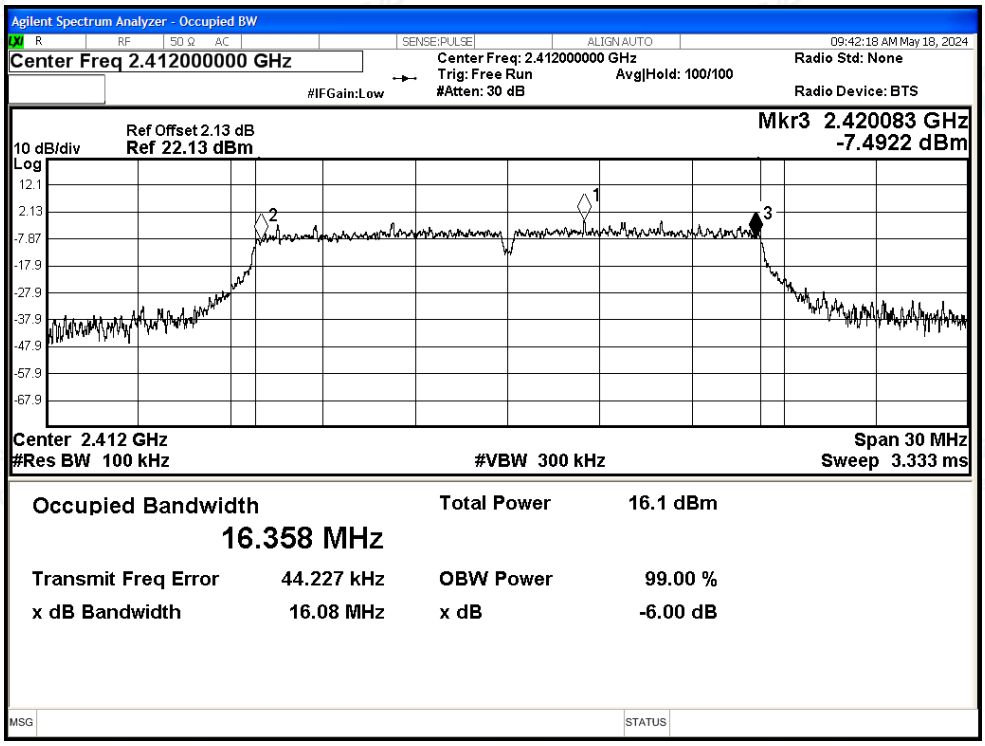
-6dB Bandwidth NVNT b 2437MHz Ant2



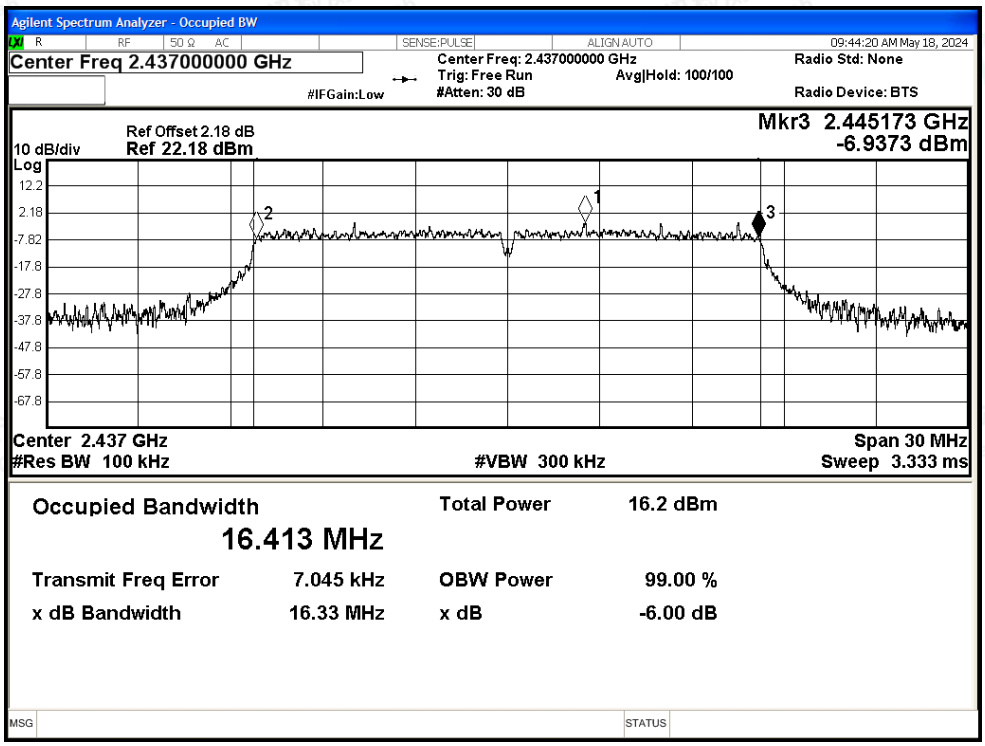
-6dB Bandwidth NVNT b 2462MHz Ant2



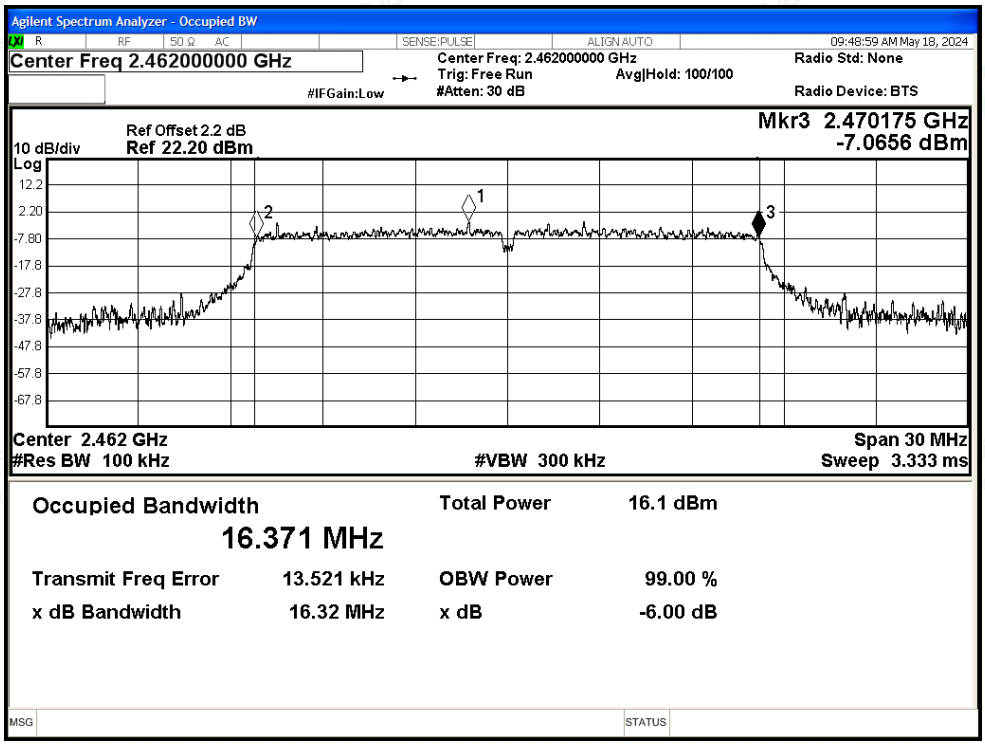
-6dB Bandwidth NVNT g 2412MHz Ant2



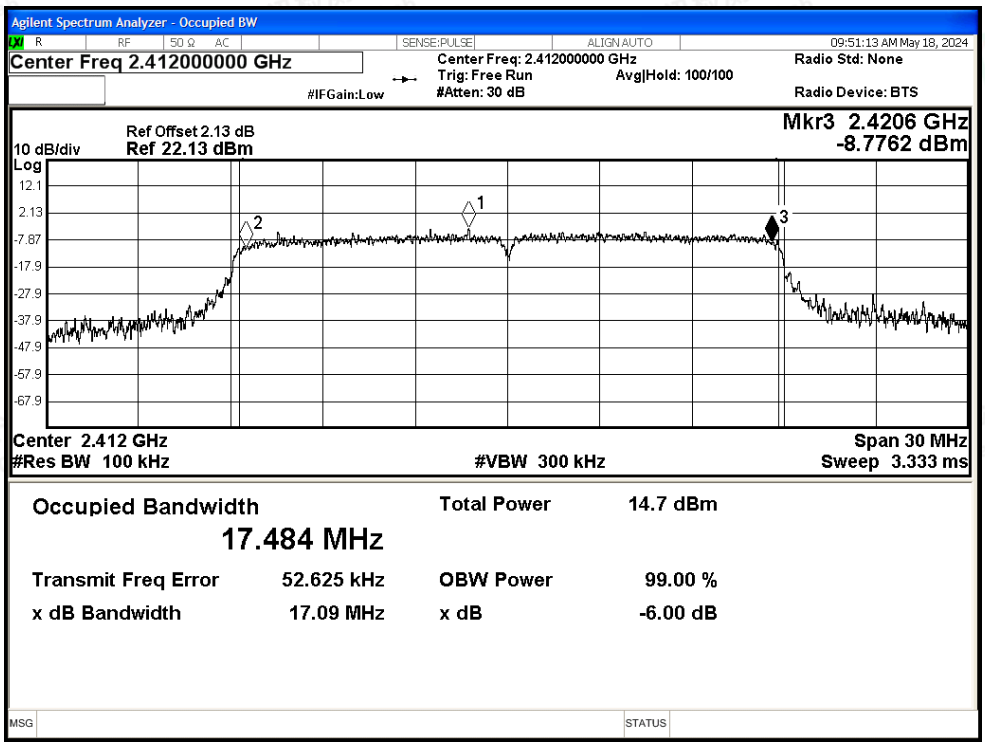
-6dB Bandwidth NVNT g 2437MHz Ant2



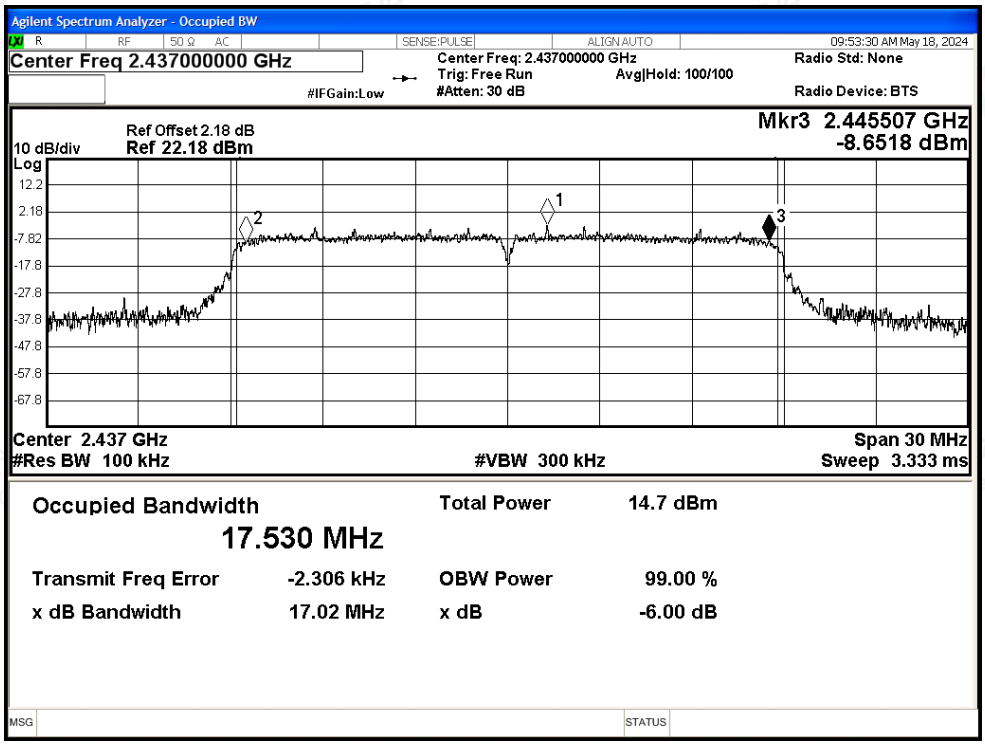
-6dB Bandwidth NVNT g 2462MHz Ant2



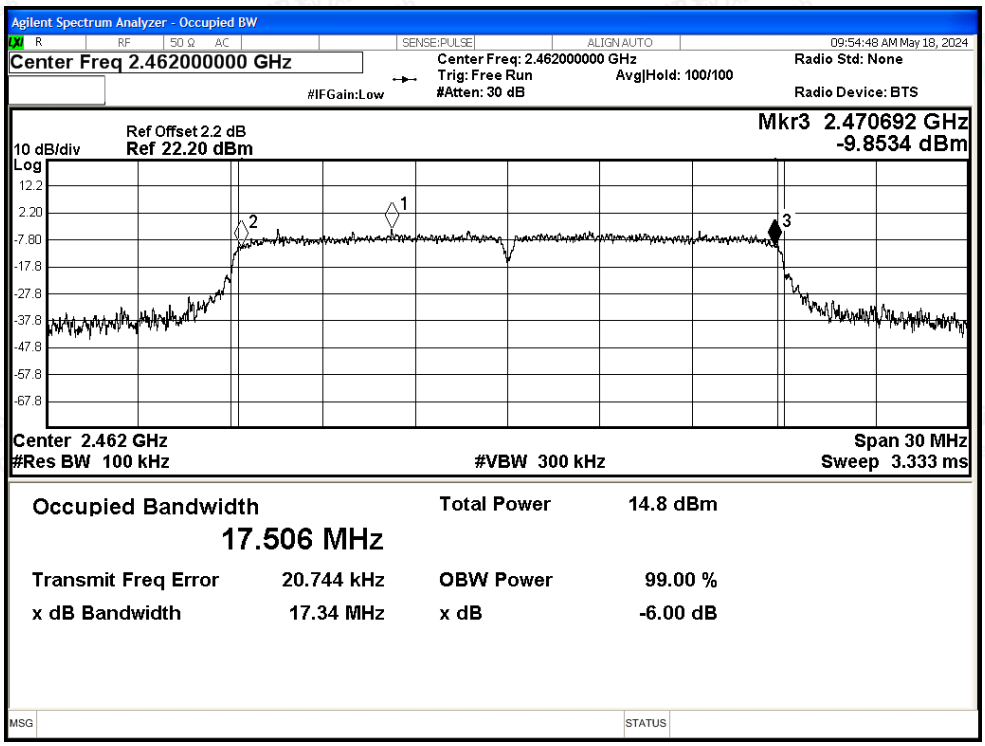
-6dB Bandwidth NVNT n20 2412MHz Ant2



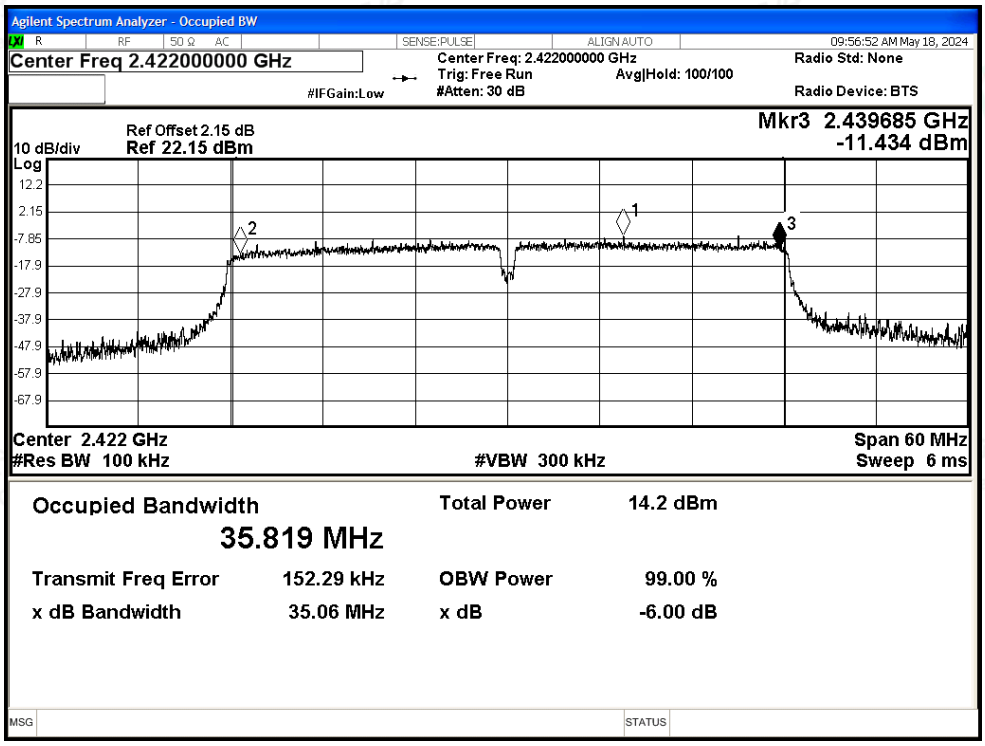
-6dB Bandwidth NVNT n20 2437MHz Ant2



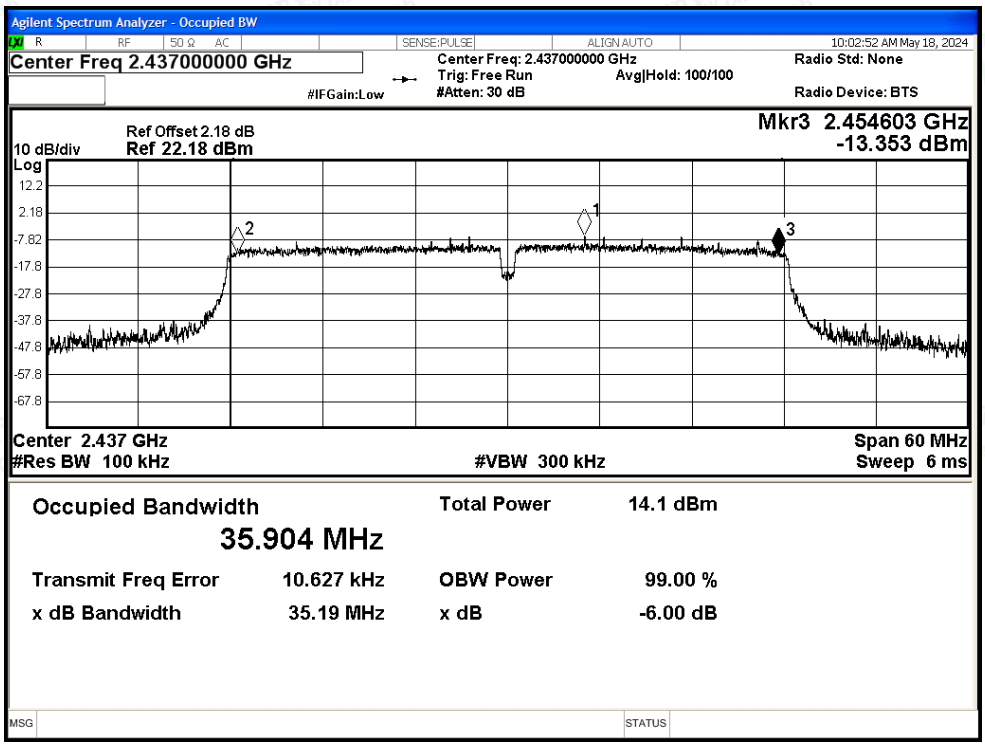
-6dB Bandwidth NVNT n20 2462MHz Ant2



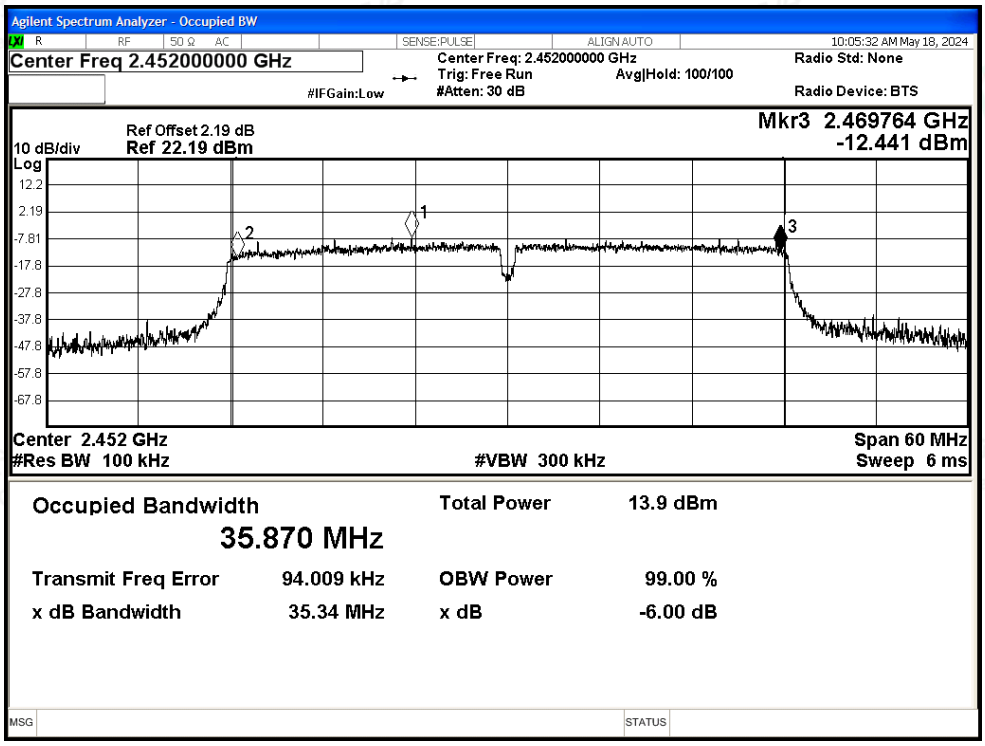
-6dB Bandwidth NVNT n40 2422MHz Ant2



-6dB Bandwidth NVNT n40 2437MHz Ant2



-6dB Bandwidth NVNT n40 2452MHz Ant2



C.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	15.26	30	Pass
NVNT	b	2437	Ant1	15.39	30	Pass
NVNT	b	2462	Ant1	15.2	30	Pass
NVNT	g	2412	Ant1	14.3	30	Pass
NVNT	g	2437	Ant1	14.77	30	Pass
NVNT	g	2462	Ant1	14.79	30	Pass
NVNT	n20	2412	Ant1	13	30	Pass
NVNT	n20	2437	Ant1	13.05	30	Pass
NVNT	n20	2462	Ant1	13.18	30	Pass
NVNT	n40	2422	Ant1	12.69	30	Pass
NVNT	n40	2437	Ant1	12.45	30	Pass
NVNT	n40	2452	Ant1	12.18	30	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant2	14.03	30	Pass
NVNT	b	2437	Ant2	14.16	30	Pass
NVNT	b	2462	Ant2	14.18	30	Pass
NVNT	g	2412	Ant2	13.47	30	Pass
NVNT	g	2437	Ant2	12.95	30	Pass
NVNT	g	2462	Ant2	12.94	30	Pass
NVNT	n20	2412	Ant2	12.5	30	Pass
NVNT	n20	2437	Ant2	12.15	30	Pass
NVNT	n20	2462	Ant2	12.18	30	Pass
NVNT	n40	2422	Ant2	10.94	30	Pass
NVNT	n40	2437	Ant2	11.64	30	Pass
NVNT	n40	2452	Ant2	11.56	30	Pass

MIMO

Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant1	Ant2	Ant1+Ant2		
NVNT	n20	2412	13	12.5	15.77	30	Pass
NVNT	n20	2437	13.05	12.15	15.63	30	Pass
NVNT	n20	2462	13.18	12.18	15.72	30	Pass
NVNT	n40	2422	12.69	10.94	14.91	30	Pass
NVNT	n40	2437	12.45	11.64	15.07	30	Pass
NVNT	n40	2452	12.18	11.56	14.89	30	Pass

C.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-9.78	8	Pass
NVNT	b	2437	Ant1	-7.81	8	Pass
NVNT	b	2462	Ant1	-6.7	8	Pass
NVNT	g	2412	Ant1	-15.52	8	Pass
NVNT	g	2437	Ant1	-16.11	8	Pass
NVNT	g	2462	Ant1	-15.42	8	Pass
NVNT	n20	2412	Ant1	-17.44	8	Pass
NVNT	n20	2437	Ant1	-17.7	8	Pass
NVNT	n20	2462	Ant1	-17.86	8	Pass
NVNT	n40	2422	Ant1	-21.17	8	Pass
NVNT	n40	2437	Ant1	-21.27	8	Pass
NVNT	n40	2452	Ant1	-21.7	8	Pass

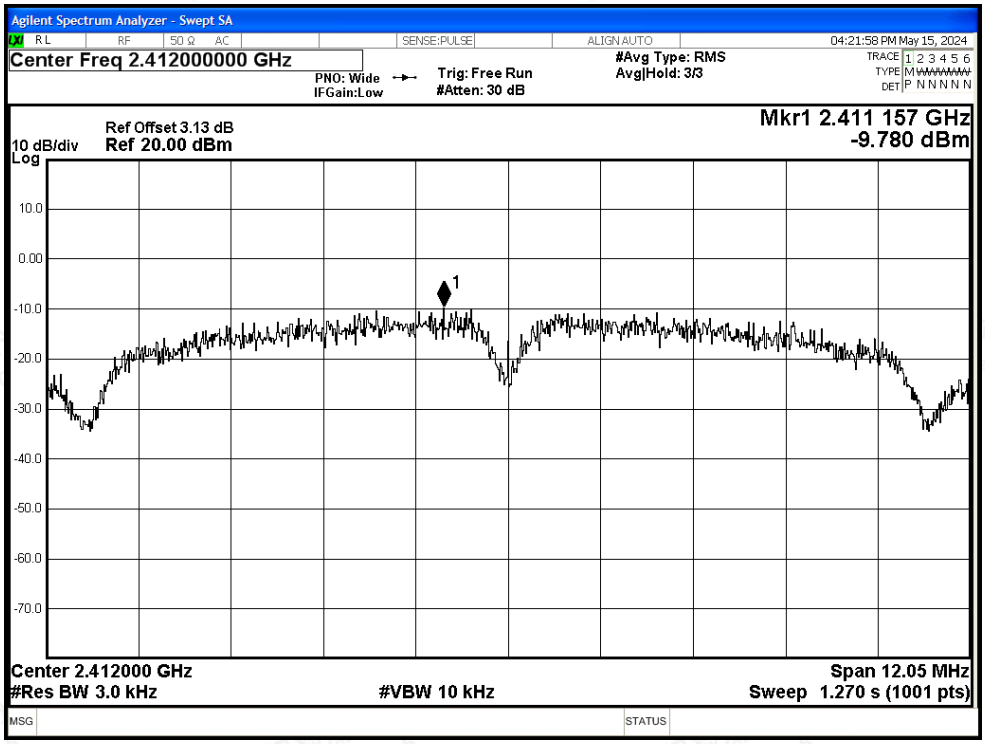
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant2	-7.9	8	Pass
NVNT	b	2437	Ant2	-8.29	8	Pass
NVNT	b	2462	Ant2	-9.52	8	Pass
NVNT	g	2412	Ant2	-14.67	8	Pass
NVNT	g	2437	Ant2	-15.64	8	Pass
NVNT	g	2462	Ant2	-15.46	8	Pass
NVNT	n20	2412	Ant2	-16.39	8	Pass
NVNT	n20	2437	Ant2	-17.45	8	Pass
NVNT	n20	2462	Ant2	-16.38	8	Pass
NVNT	n40	2422	Ant2	-20.6	8	Pass
NVNT	n40	2437	Ant2	-20.76	8	Pass
NVNT	n40	2452	Ant2	-21.08	8	Pass

MIMO

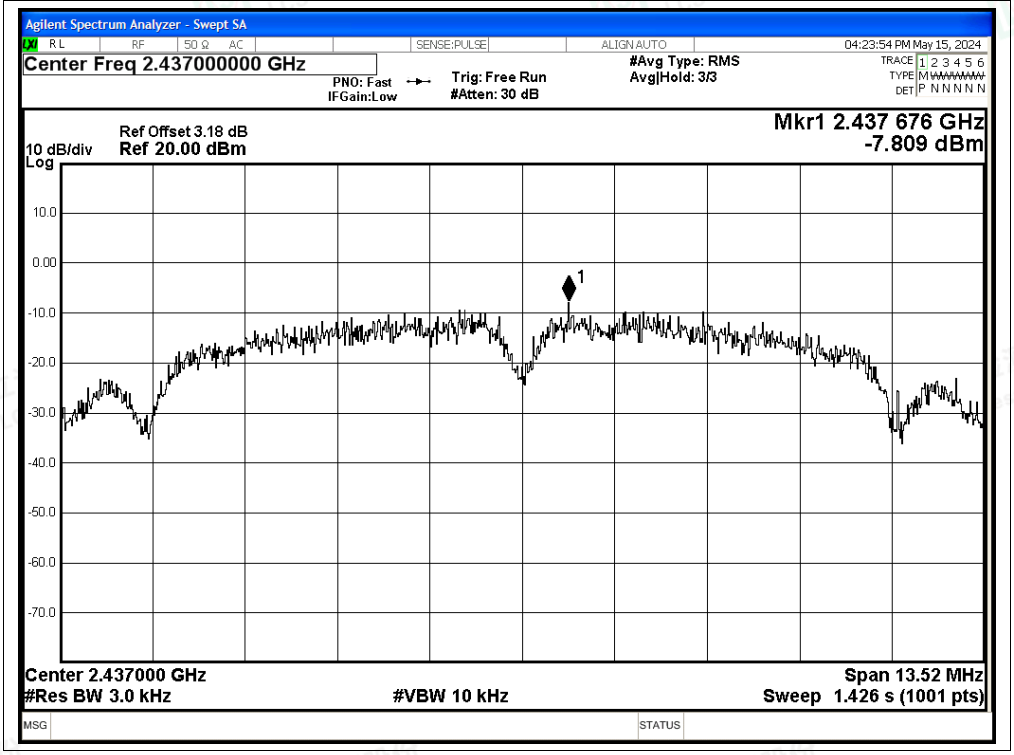
Condition	Mode	Frequency (MHz)	Total PSD (dBm/3kHz)			Limit (dBm)	Verdict
			Ant1	Ant2	Ant1+Ant2		
NVNT	n20	2412	-17.44	-16.39	-13.87	8	Pass
NVNT	n20	2437	-17.7	-17.45	-14.56	8	Pass
NVNT	n20	2462	-17.86	-16.38	-14.05	8	Pass
NVNT	n40	2412	-21.17	-20.6	-17.87	8	Pass
NVNT	n40	2437	-21.27	-20.76	-18.00	8	Pass
NVNT	n40	2462	-21.7	-21.08	-18.37	8	Pass

Test Graphs

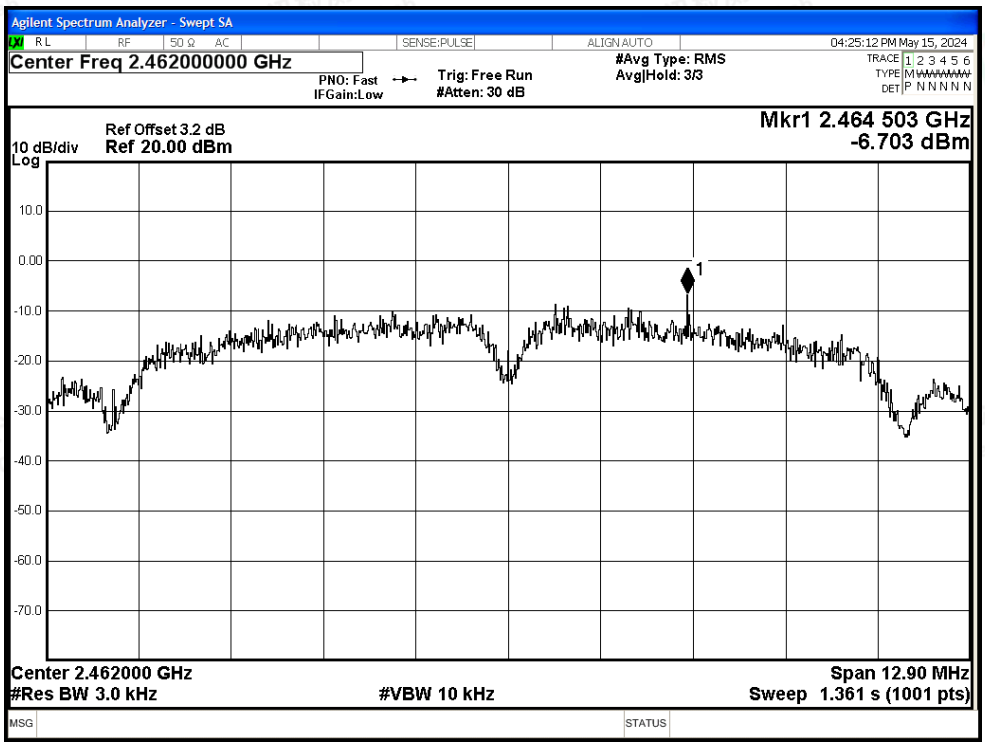
PSD NVNT b 2412MHz Ant1



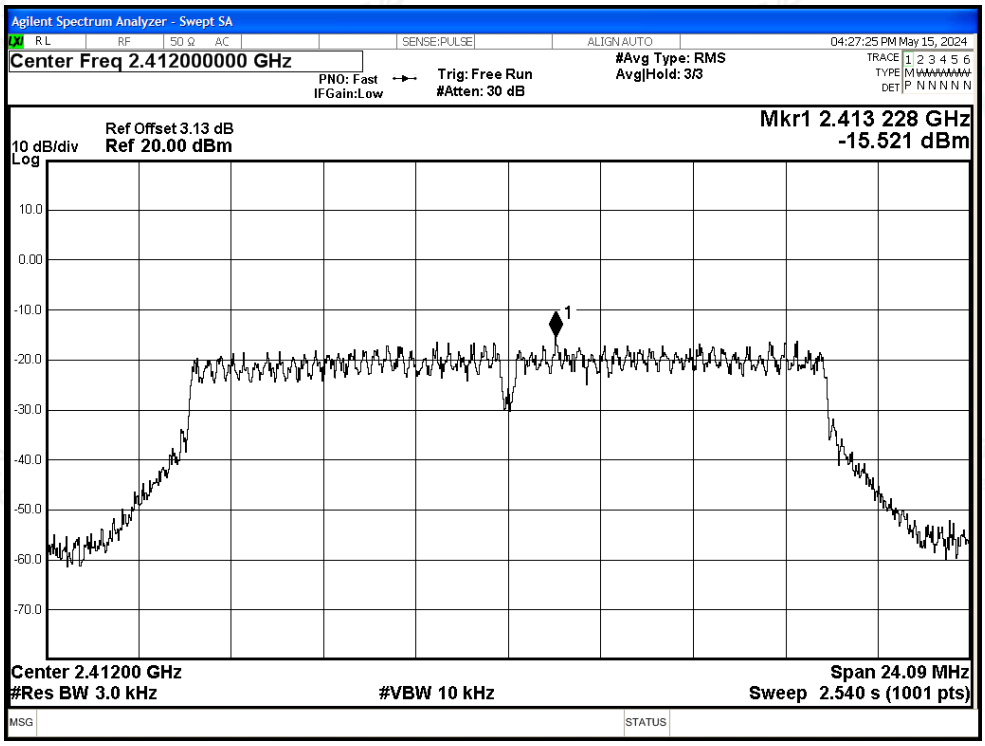
PSD NVNT b 2437MHz Ant1



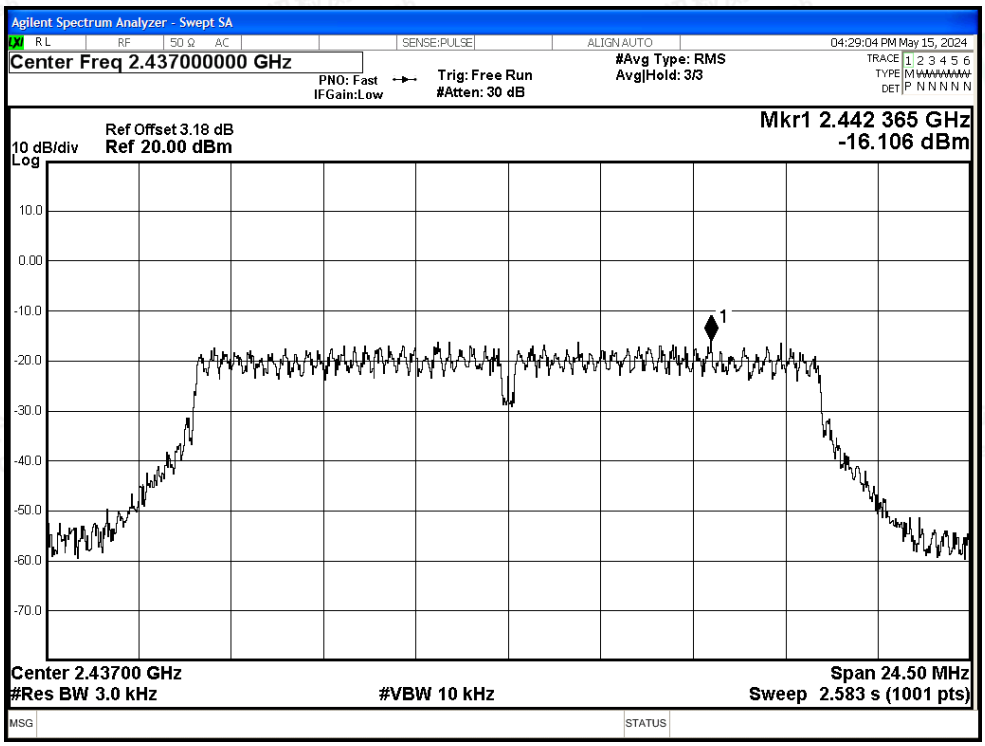
PSD NVNT b 2462MHz Ant1



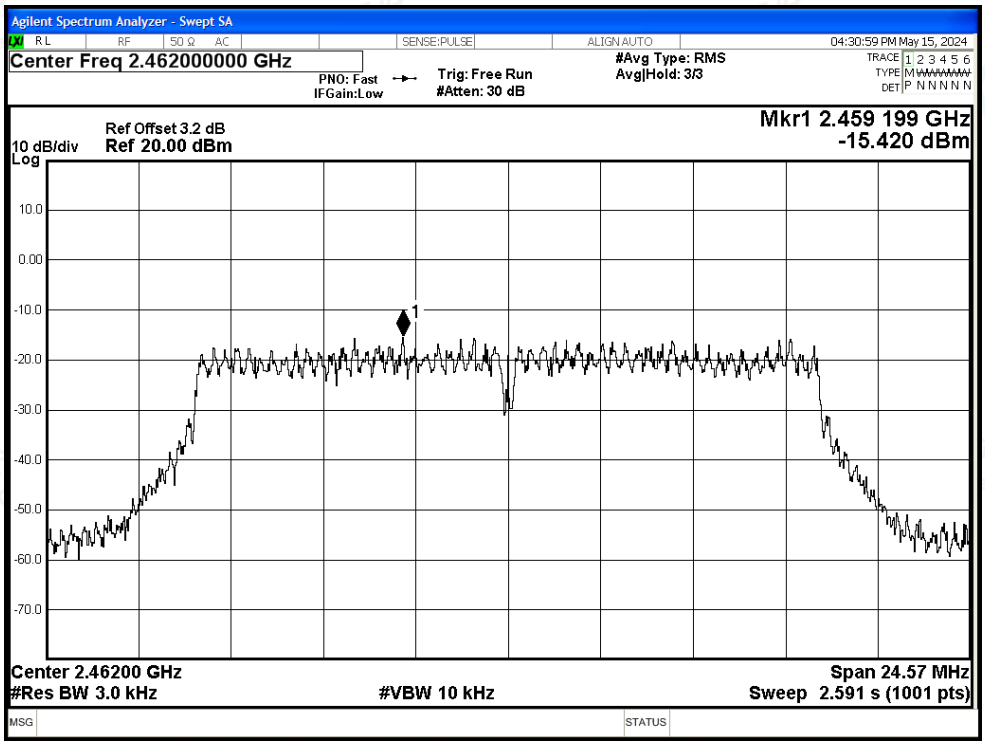
PSD NVNT g 2412MHz Ant1



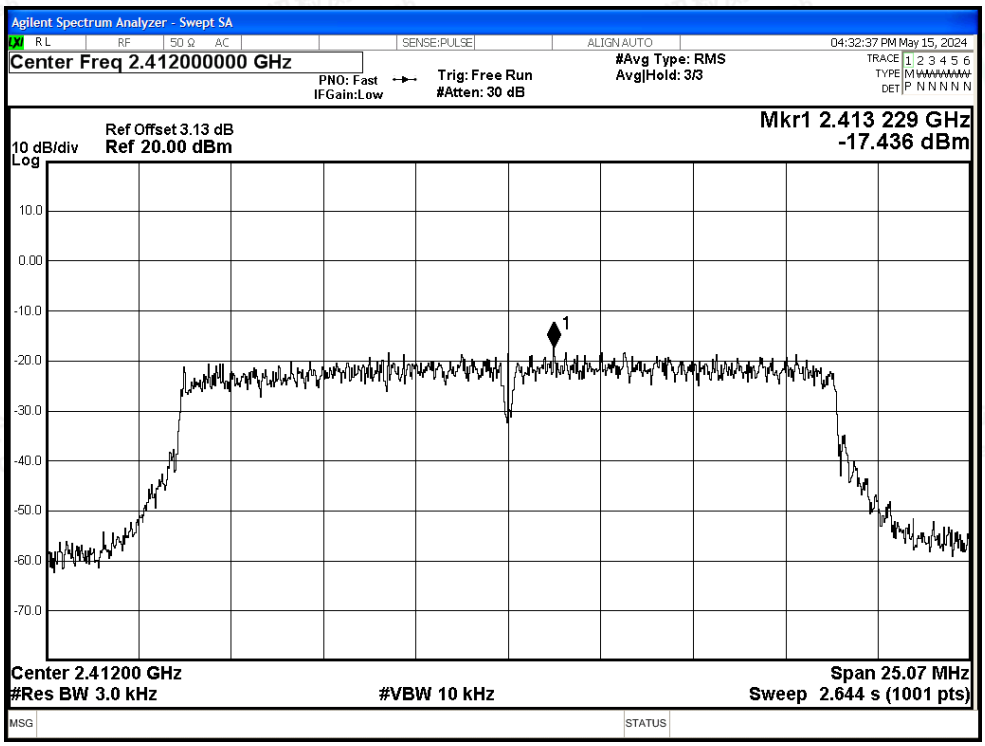
PSD NVNT g 2437MHz Ant1



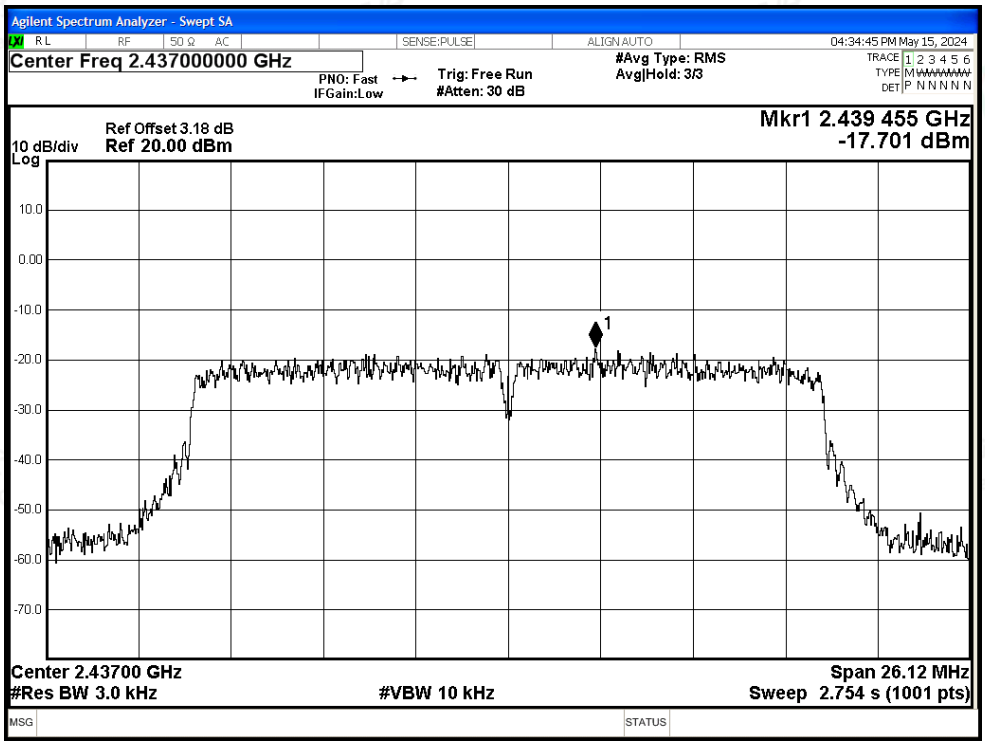
PSD NVNT g 2462MHz Ant1



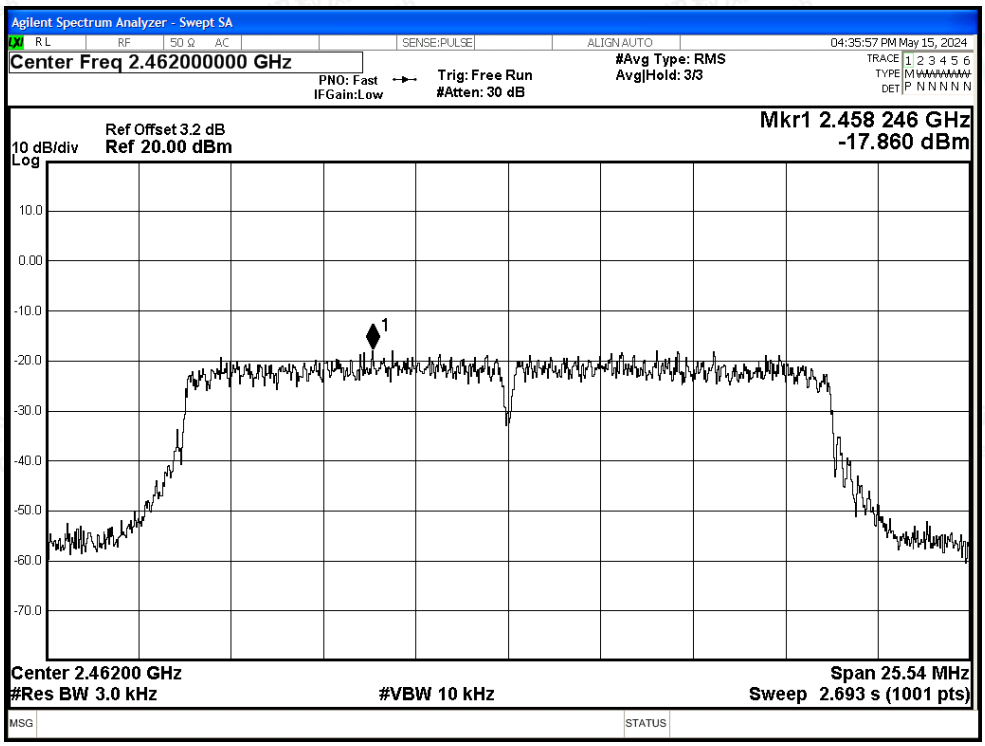
PSD NVNT n20 2412MHz Ant1



PSD NVNT n20 2437MHz Ant1

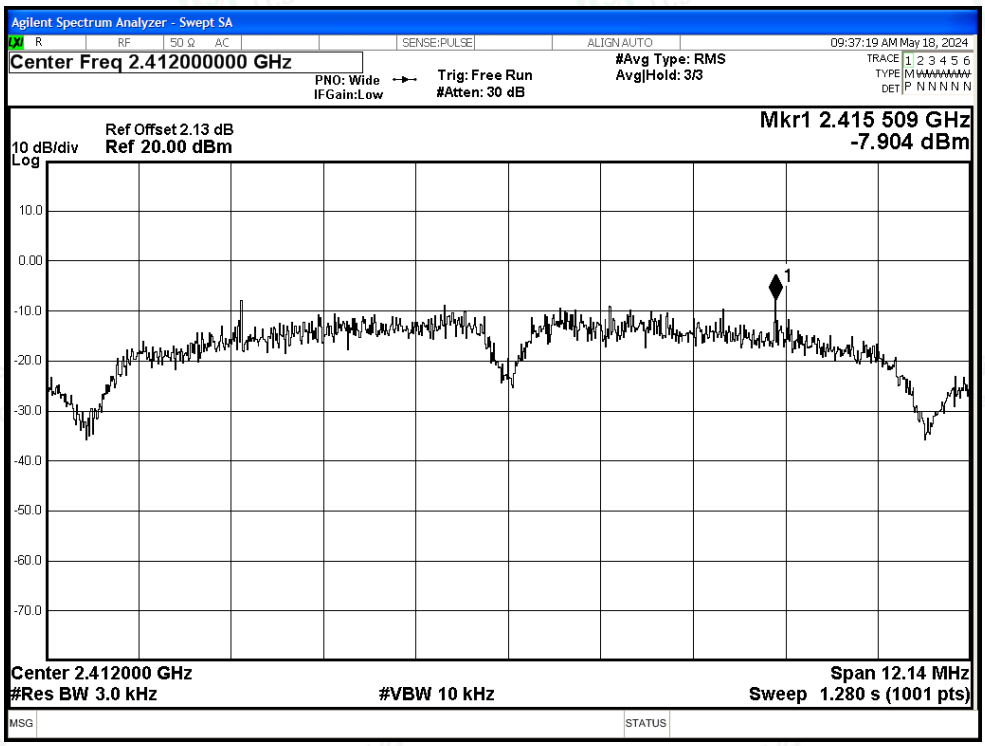


PSD NVNT n20 2462MHz Ant1

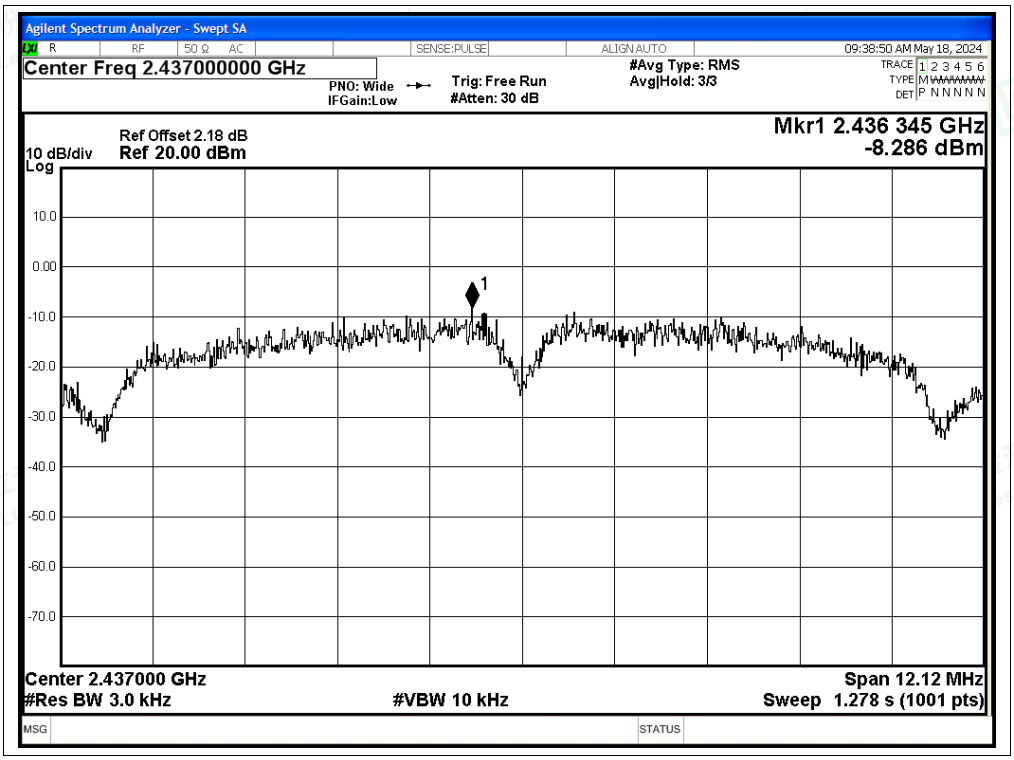


Test Graphs

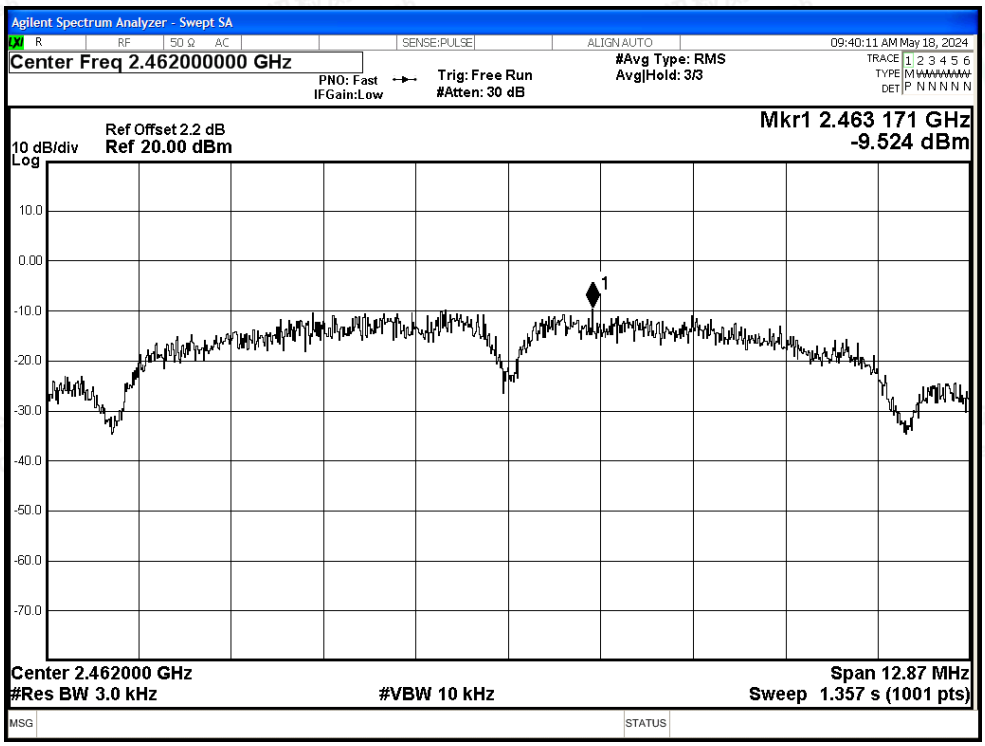
PSD NVNT b 2412MHz Ant2



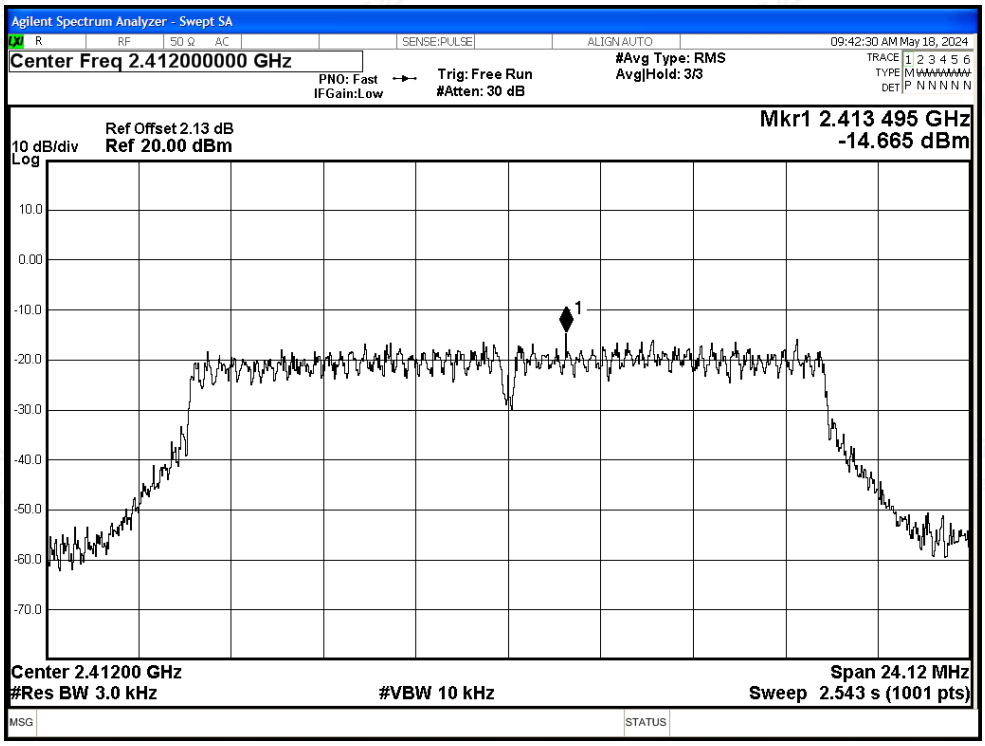
PSD NVNT b 2437MHz Ant2


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.437000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 3/3
09:38:50 AM May 18, 2024
Ref Offset 2.18 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr1 2.436 345 GHz
-8.286 dBm
Center 2.437000 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Span 12.12 MHz
Sweep 1.278 s (1001 pts)

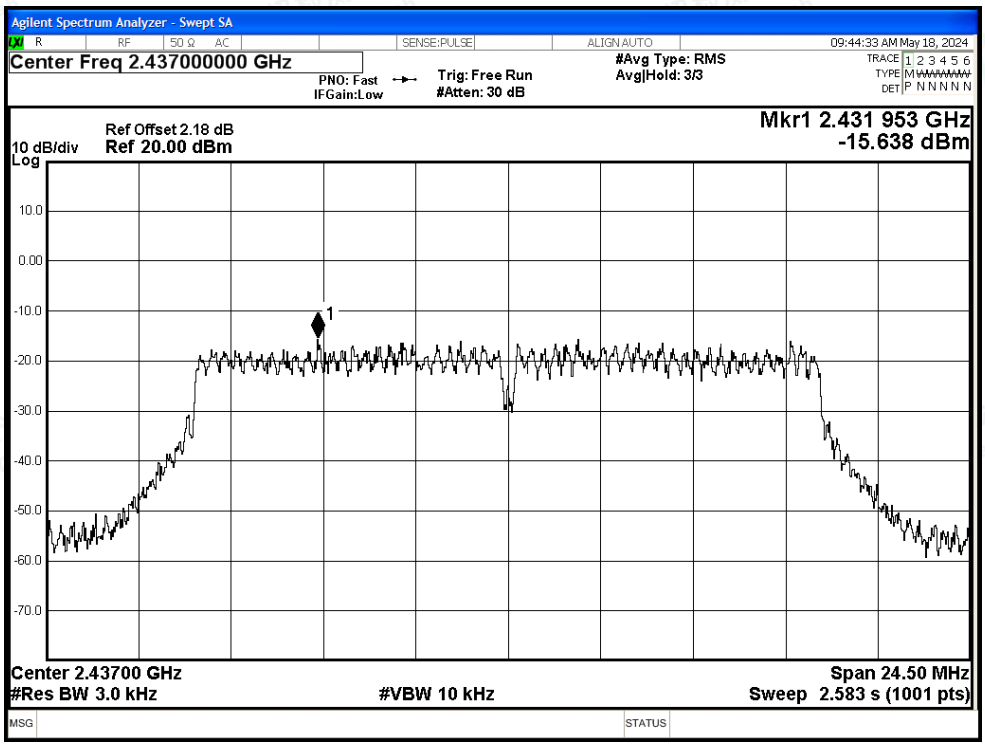
PSD NVNT b 2462MHz Ant2



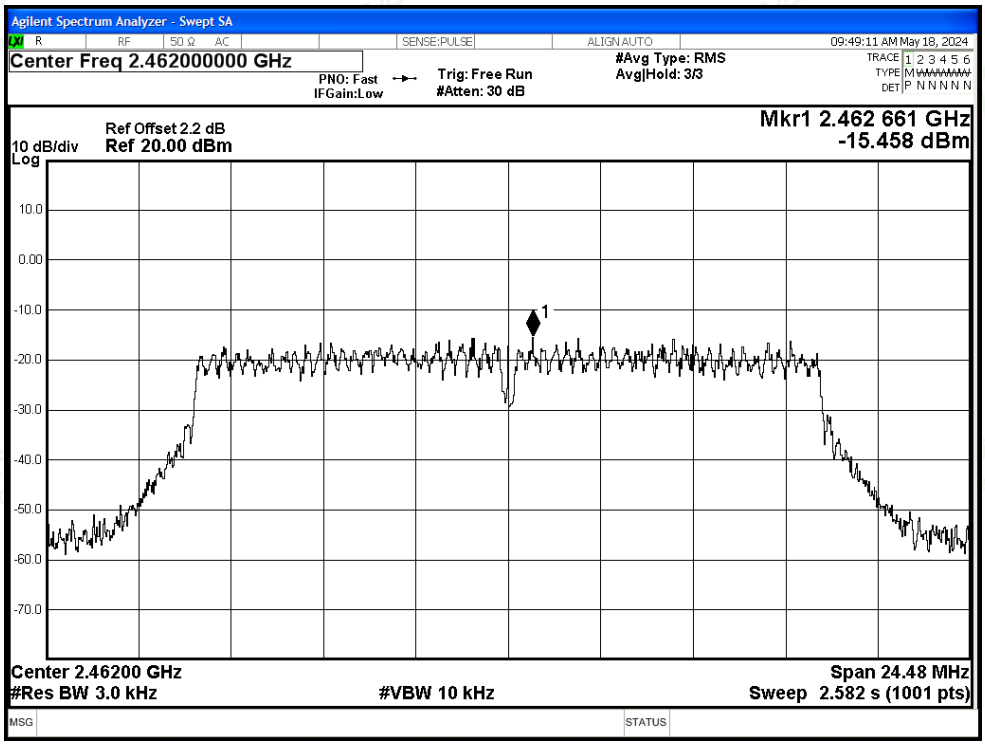
PSD NVNT g 2412MHz Ant2



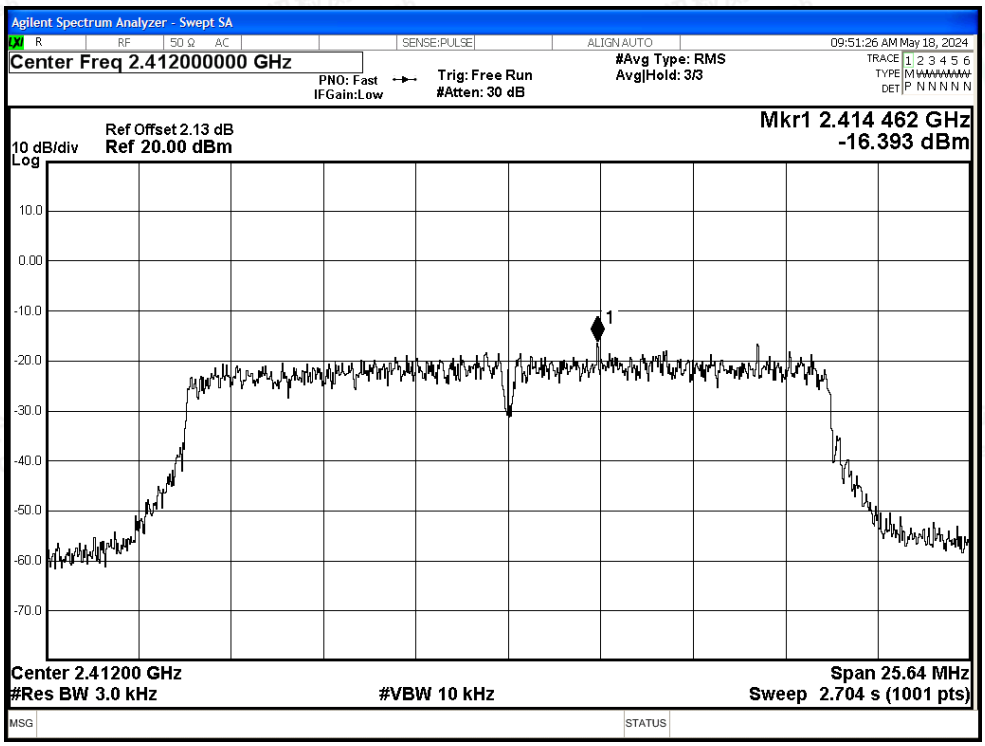
PSD NVNT g 2437MHz Ant2



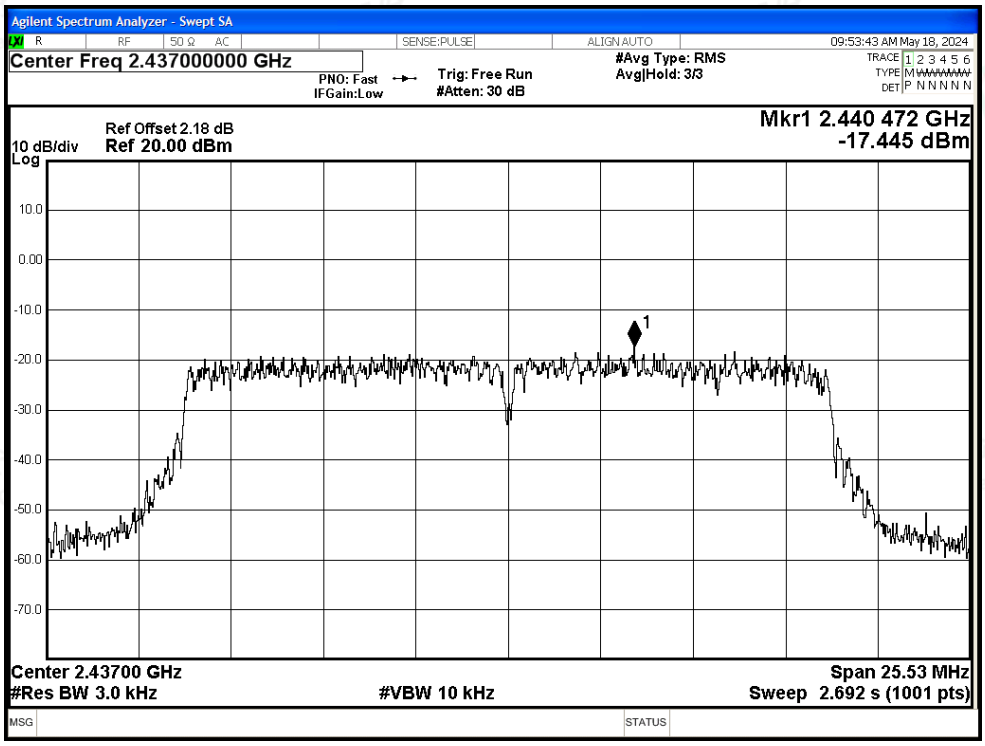
PSD NVNT g 2462MHz Ant2



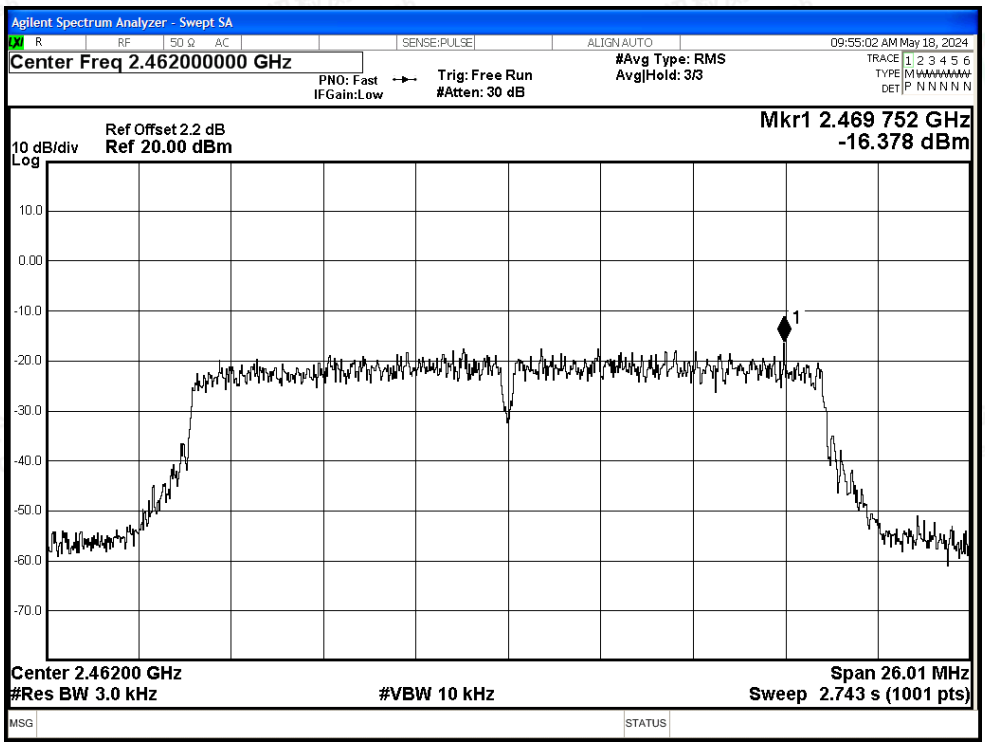
PSD NVNT n20 2412MHz Ant2



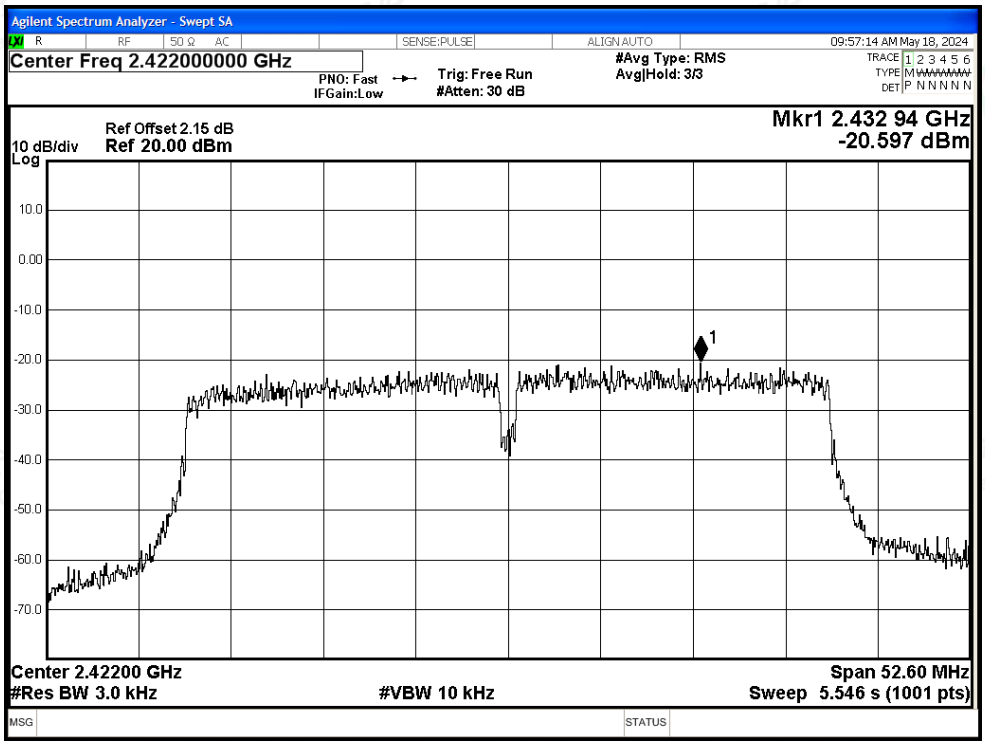
PSD NVNT n20 2437MHz Ant2



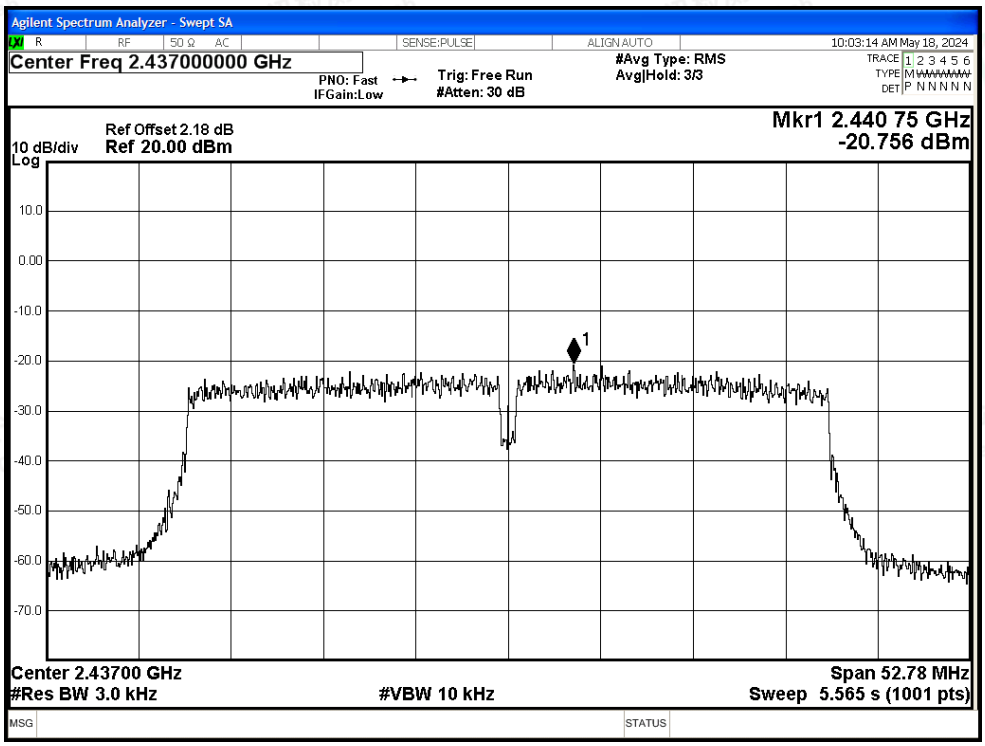
PSD NVNT n20 2462MHz Ant2



PSD NVNT n40 2422MHz Ant2



PSD NVNT n40 2437MHz Ant2



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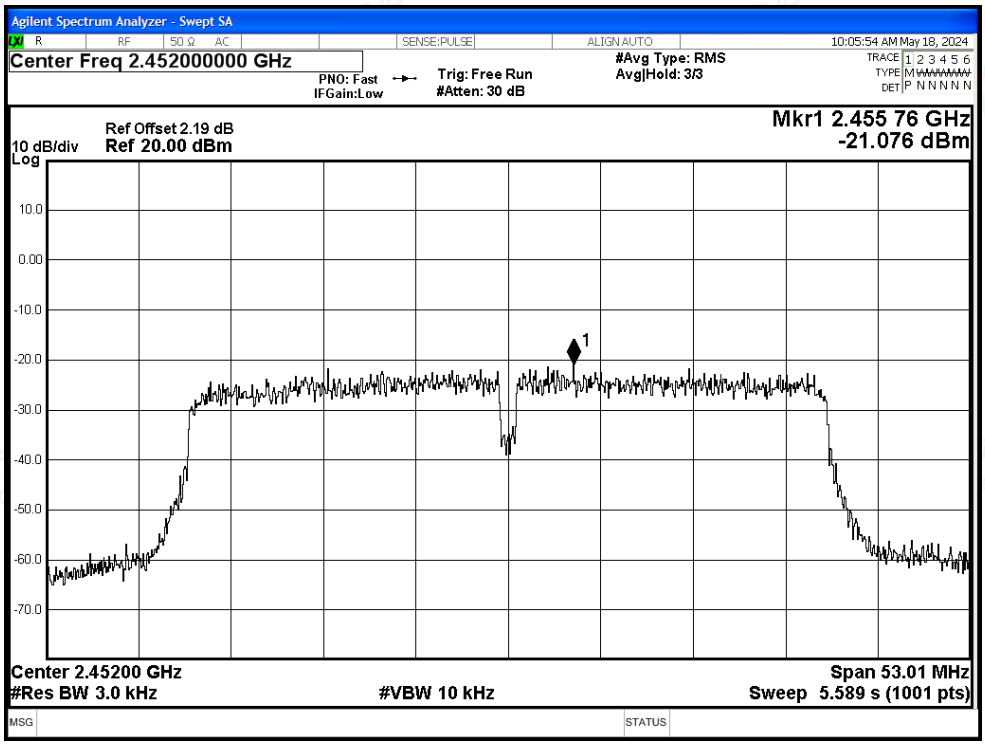
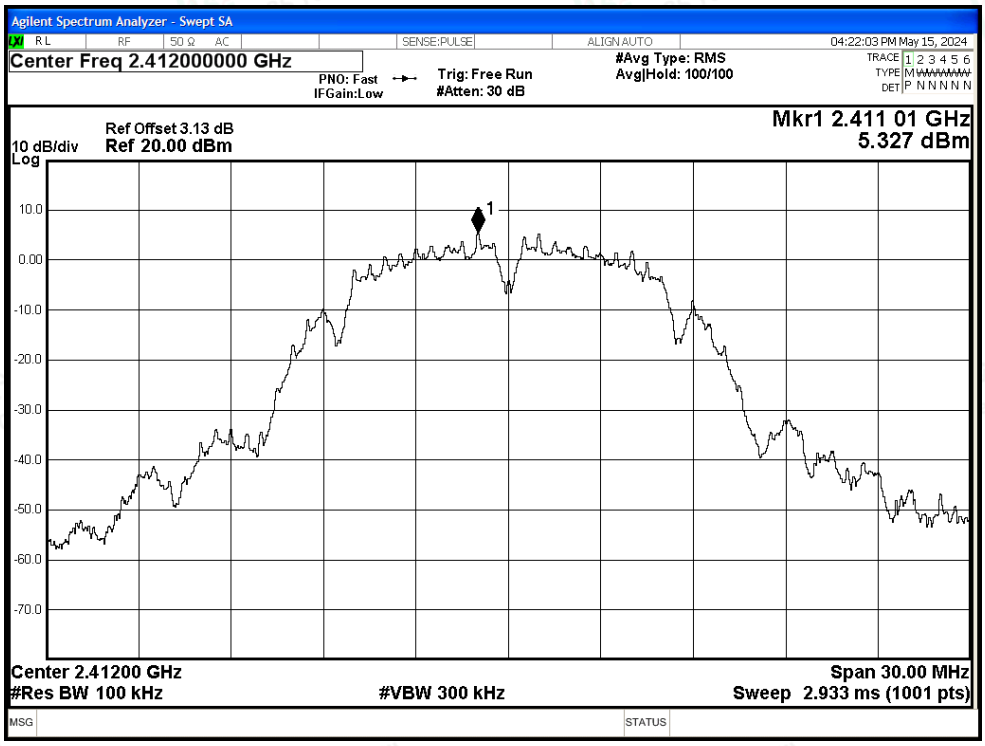


C.4 Band Edge

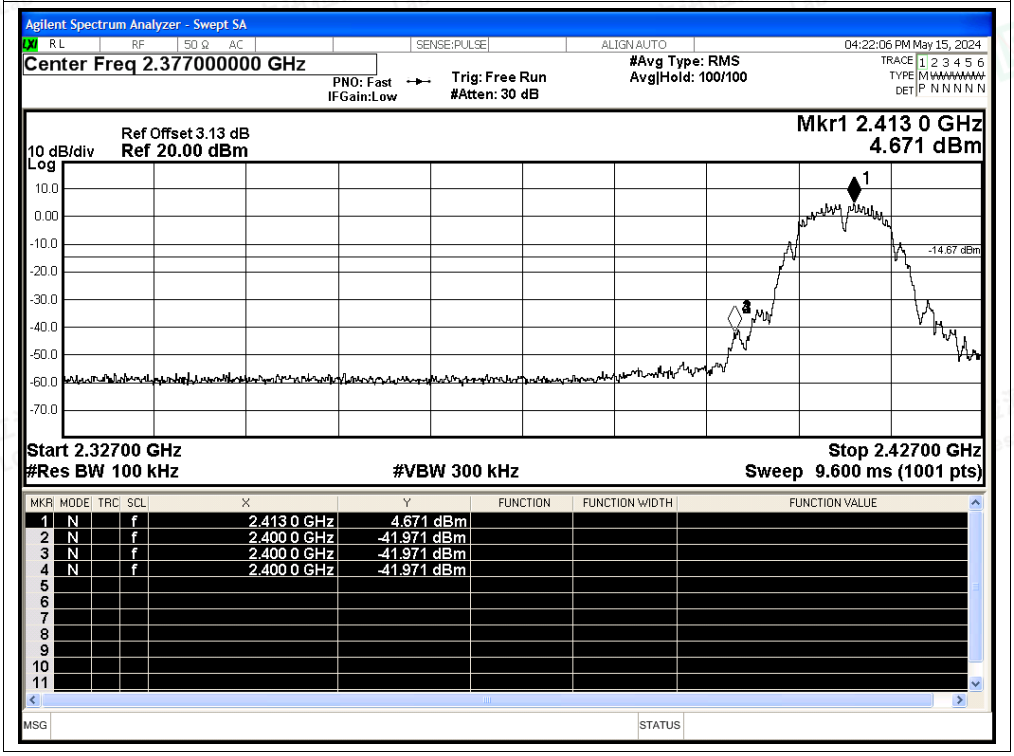
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-47.3	-20	Pass
NVNT	b	2462	Ant1	-59.35	-20	Pass
NVNT	g	2412	Ant1	-32.34	-20	Pass
NVNT	g	2462	Ant1	-44.71	-20	Pass
NVNT	n20	2412	Ant1	-30.43	-20	Pass
NVNT	n20	2462	Ant1	-41.83	-20	Pass
NVNT	n40	2422	Ant1	-36.42	-20	Pass
NVNT	n40	2452	Ant1	-37.67	-20	Pass

Test Graphs

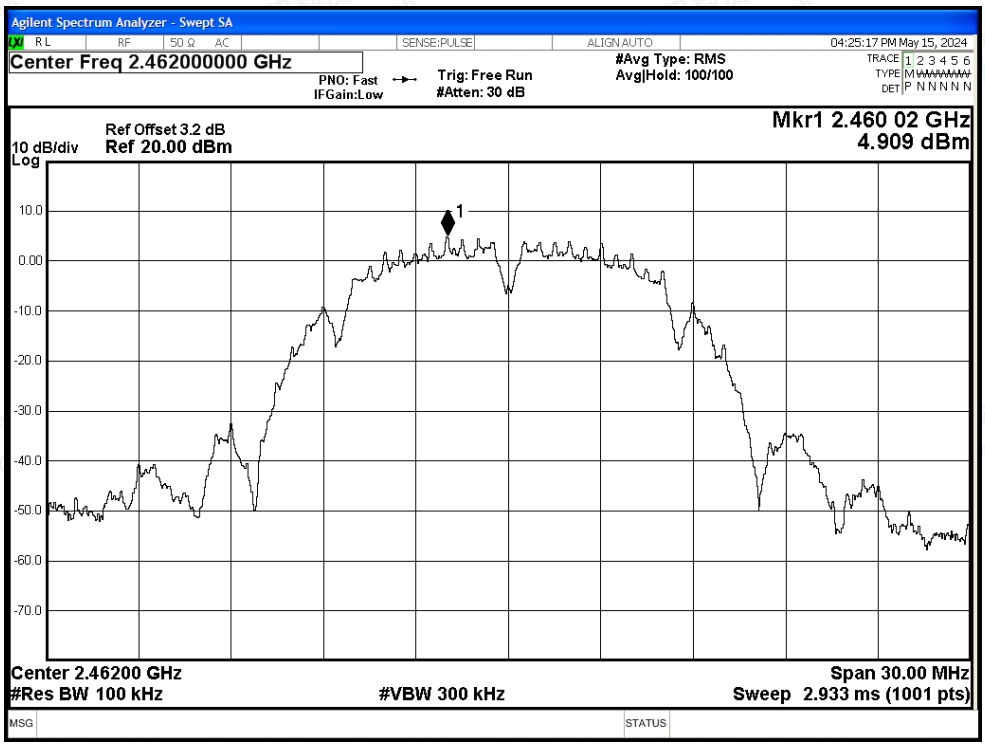
Band Edge NVNT b 2412MHz Ant1 Ref



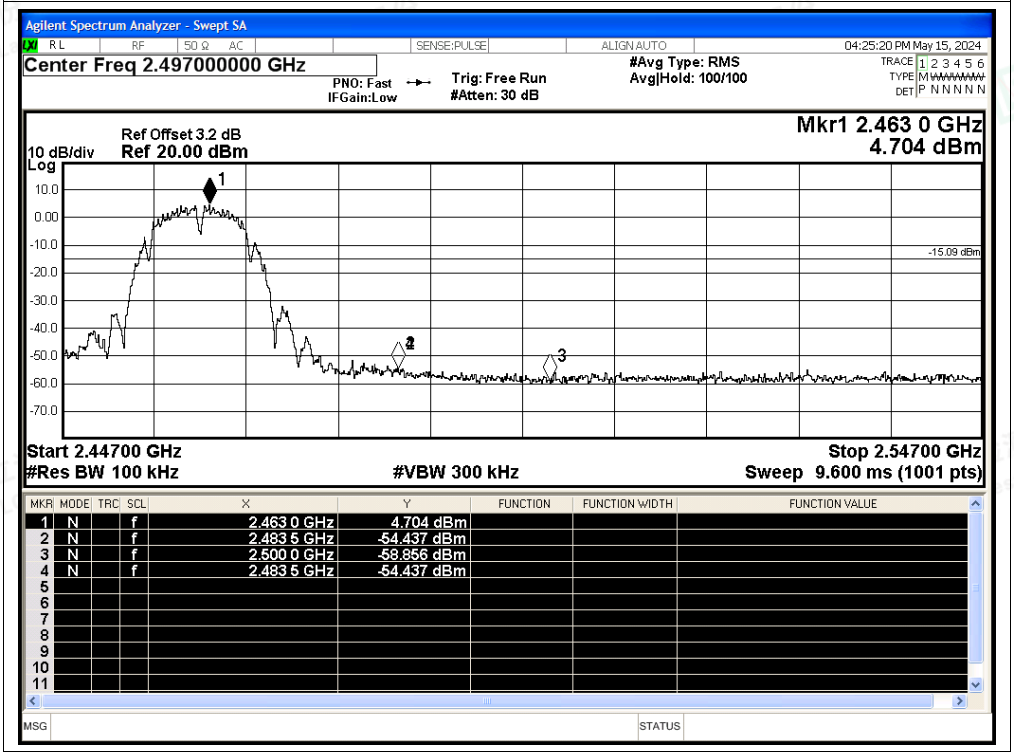
Band Edge NVNT b 2412MHz Ant1 Emission



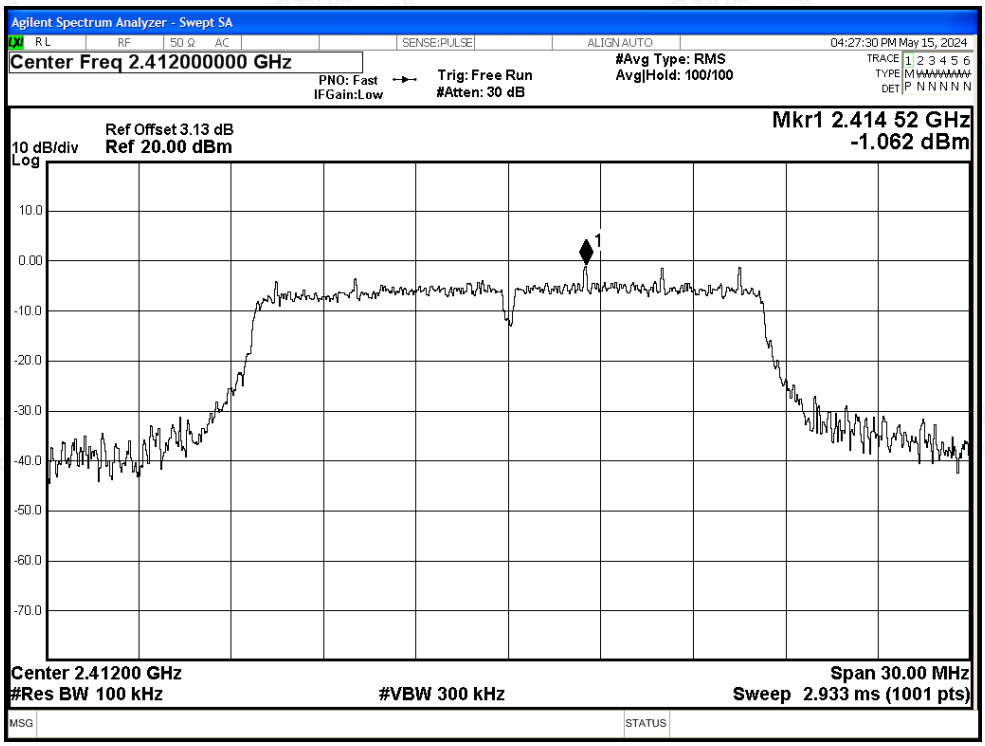
Band Edge NVNT b 2462MHz Ant1 Ref



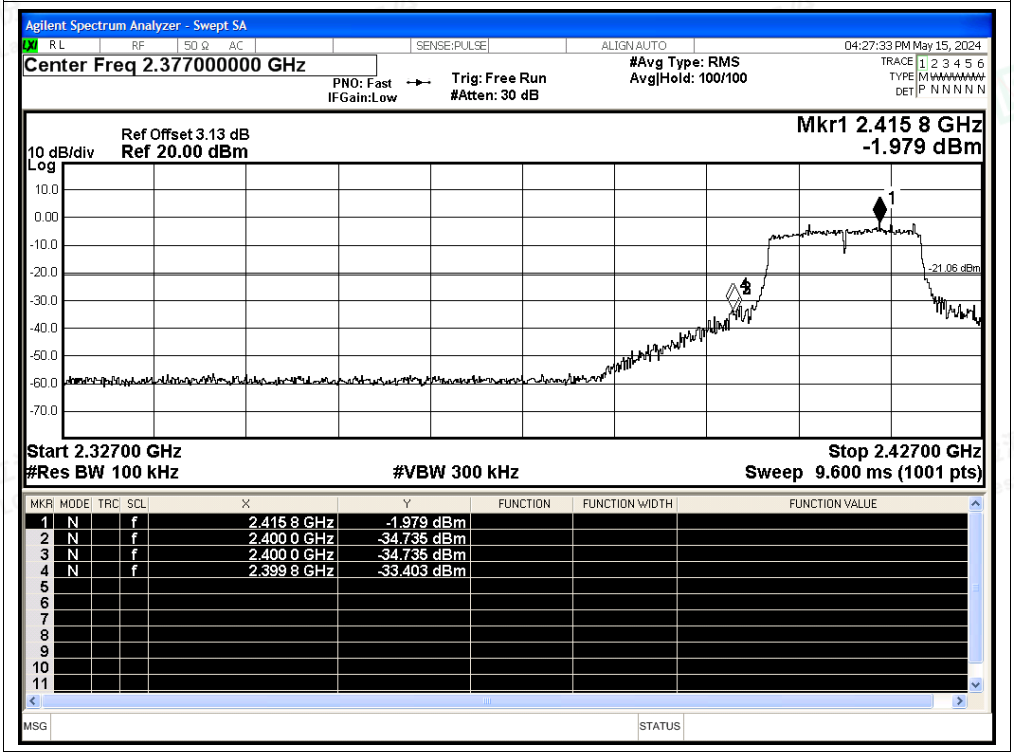
Band Edge NVNT b 2462MHz Ant1 Emission



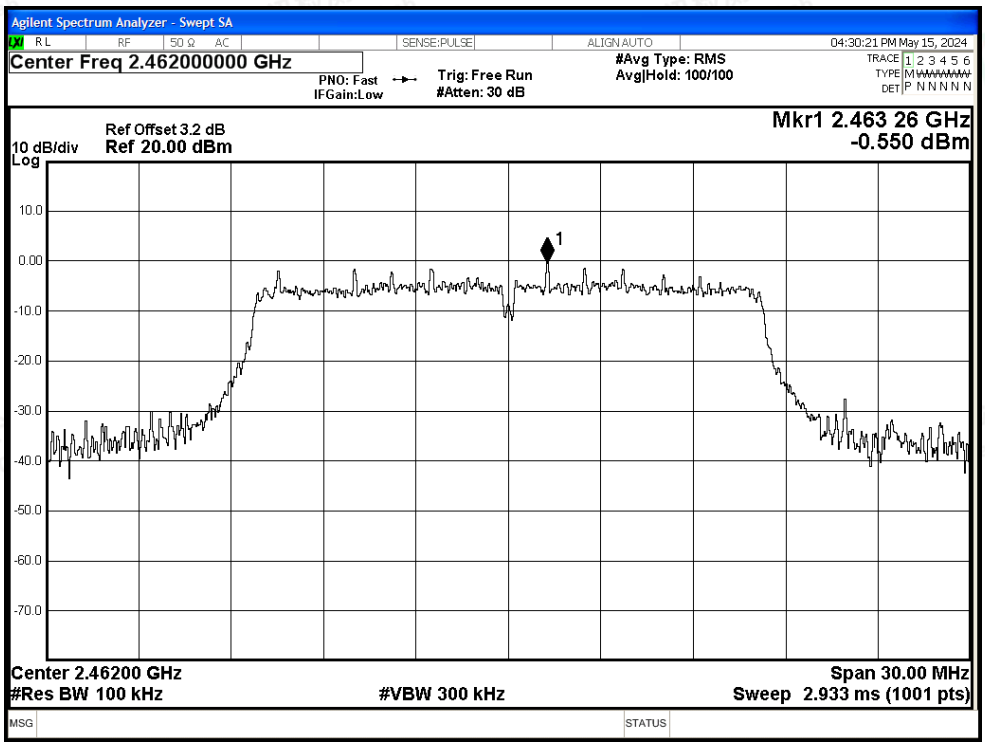
Band Edge NVNT g 2412MHz Ant1 Ref



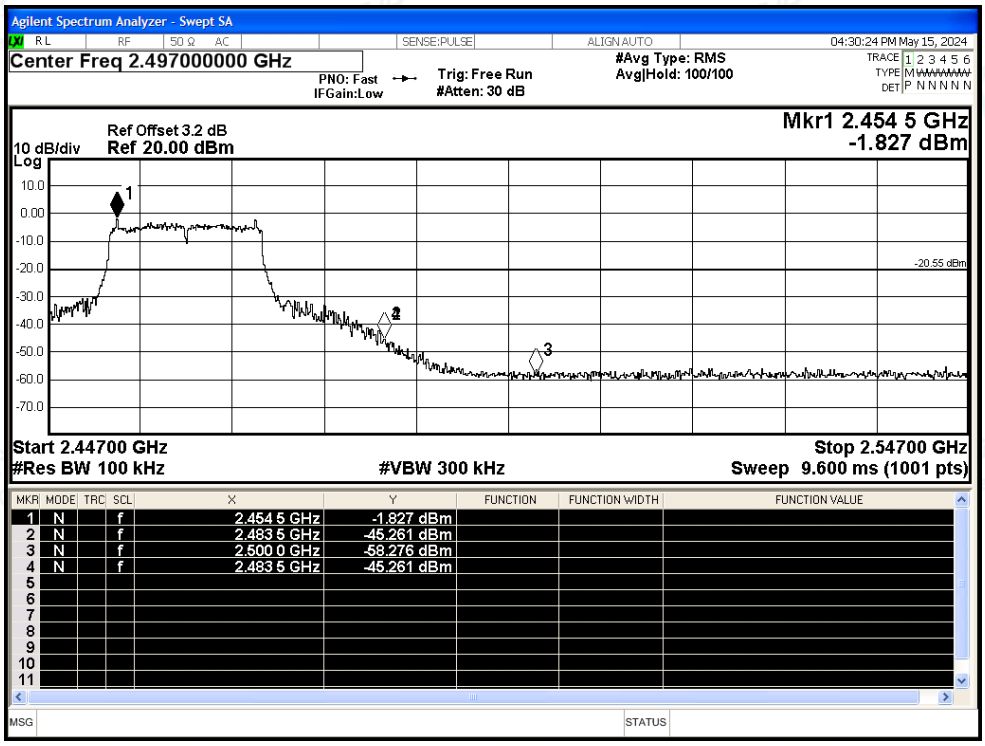
Band Edge NVNT g 2412MHz Ant1 Emission



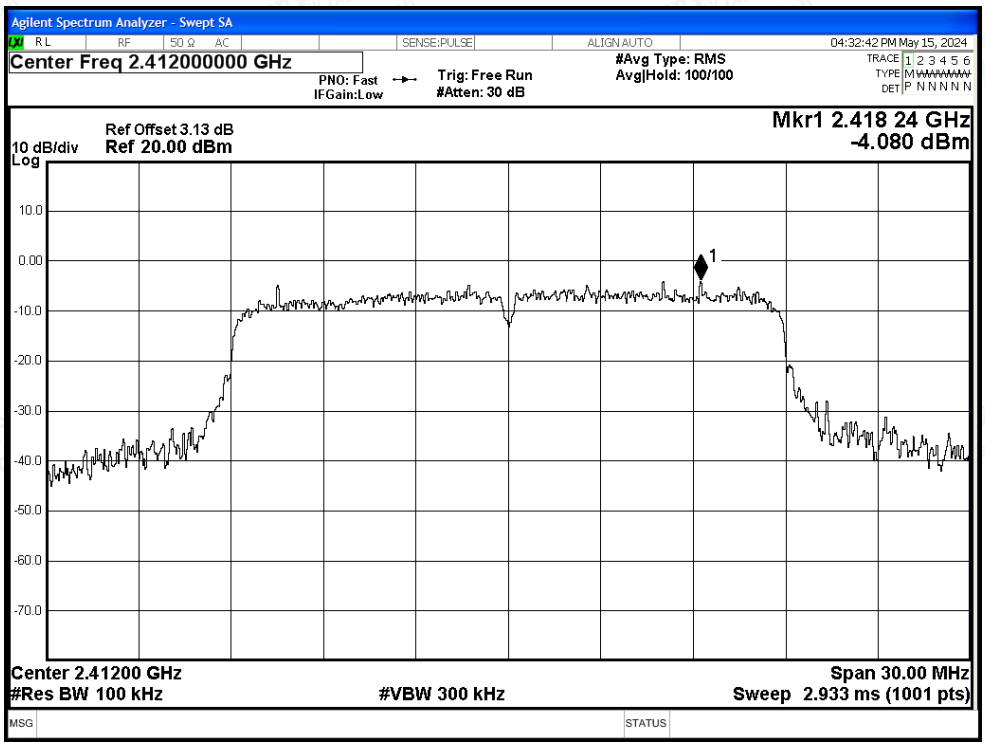
Band Edge NVNT g 2462MHz Ant1 Ref



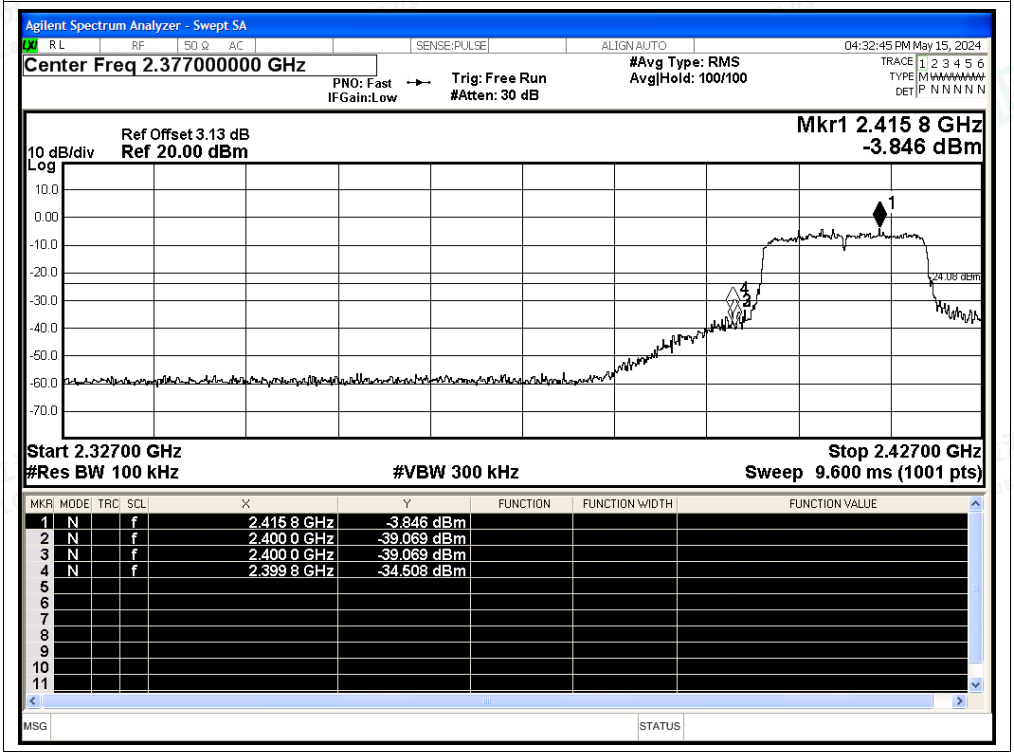
Band Edge NVNT g 2462MHz Ant1 Emission



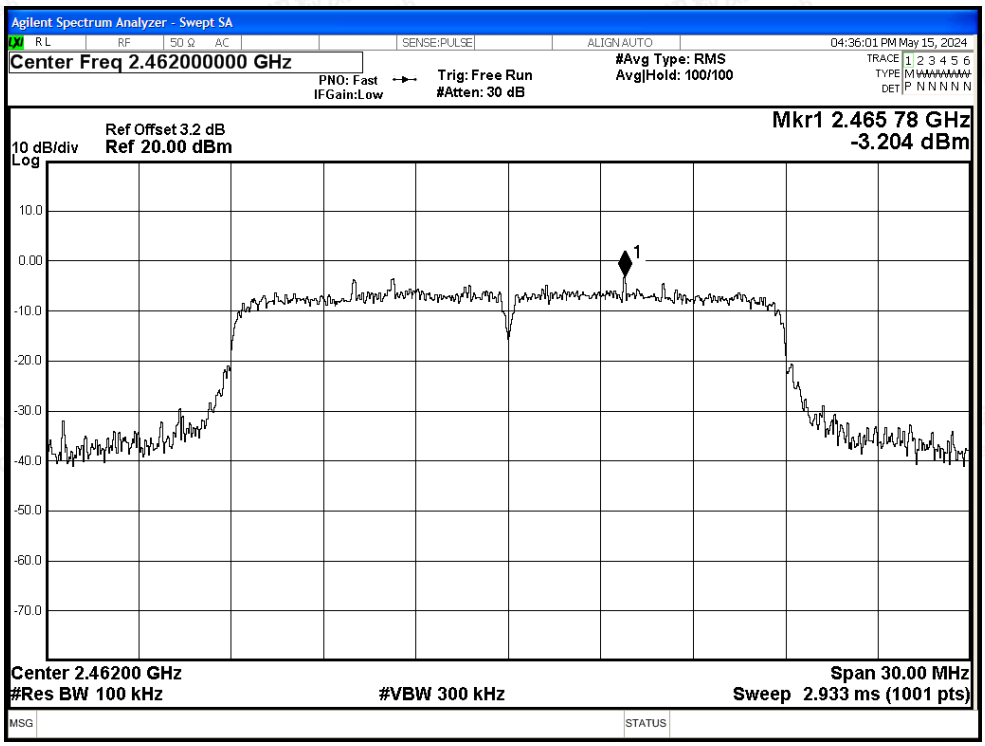
Band Edge NVNT n20 2412MHz Ant1 Ref



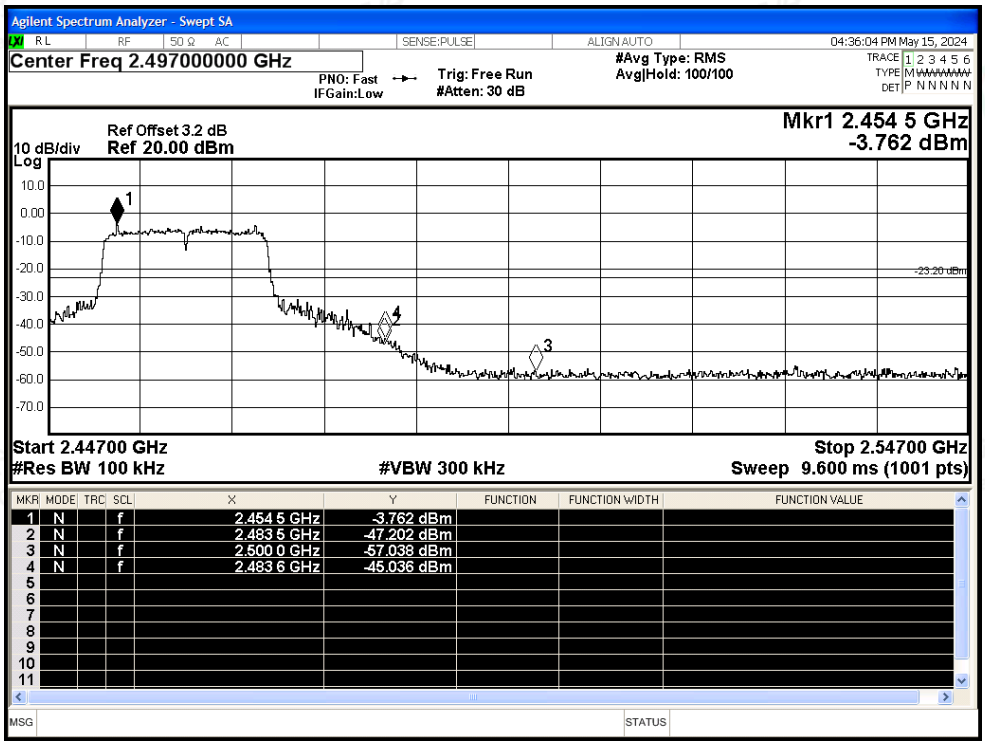
Band Edge NVNT n20 2412MHz Ant1 Emission



Band Edge NVNT n20 2462MHz Ant1 Ref

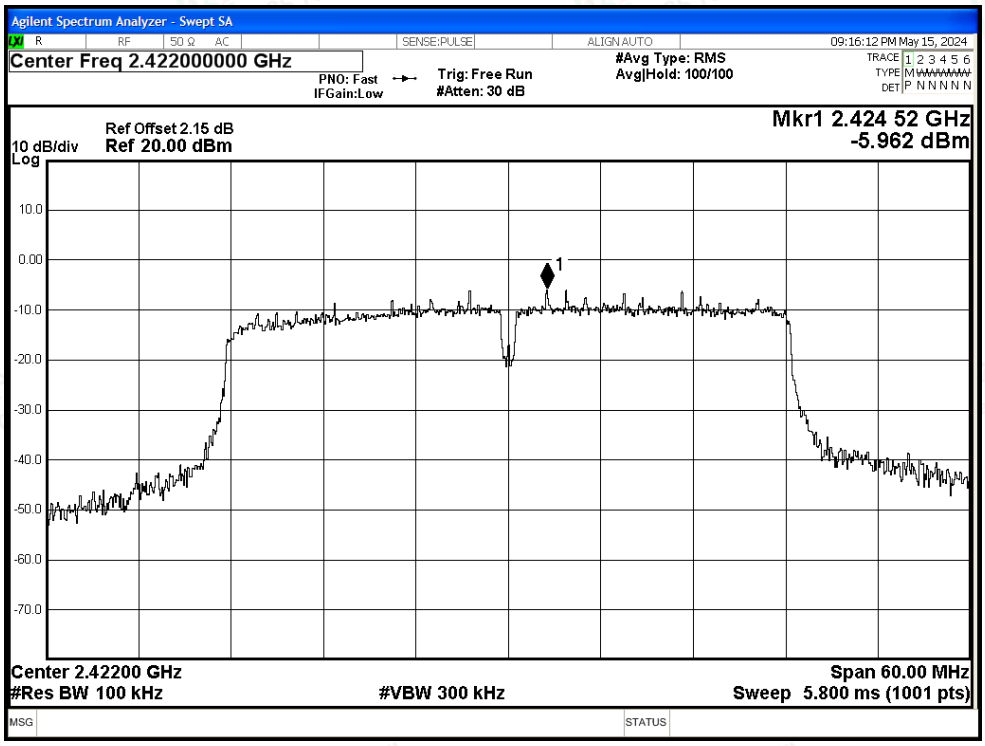
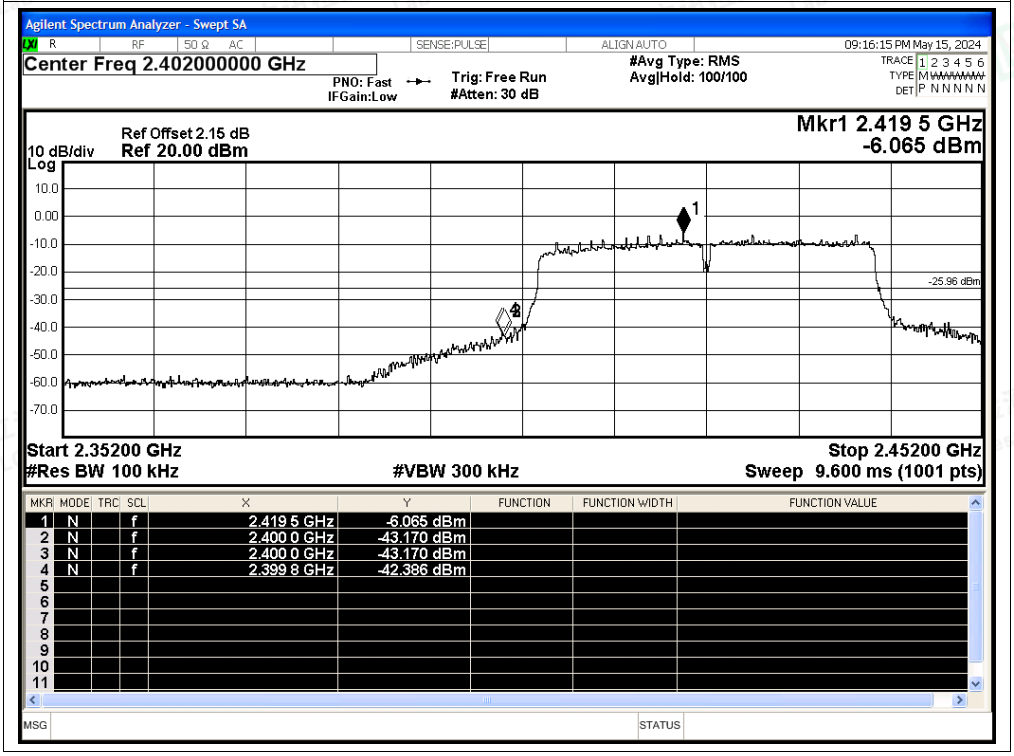


Band Edge NVNT n20 2462MHz Ant1 Emission



Test Graphs

Band Edge NVNT n40 2422MHz Ant1 Ref



Band Edge NVNT n40 2422MHz Ant1 Emission