Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Tablet PC

Test Model: A1083

Environmental Conditions

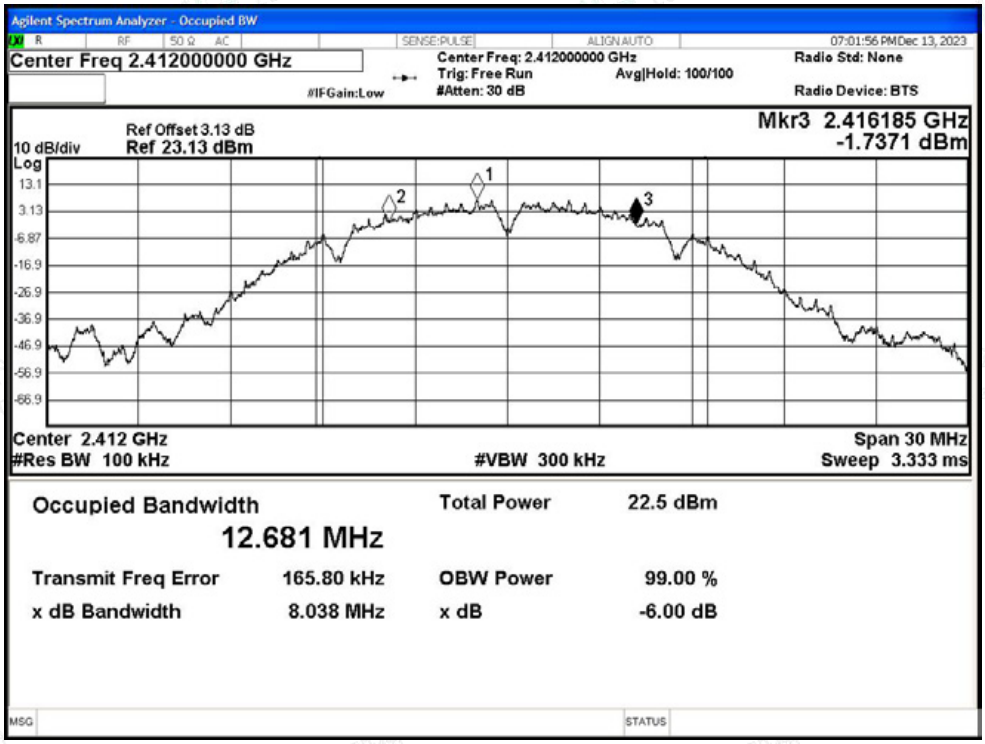
Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng

C.1 -6dB Bandwidth

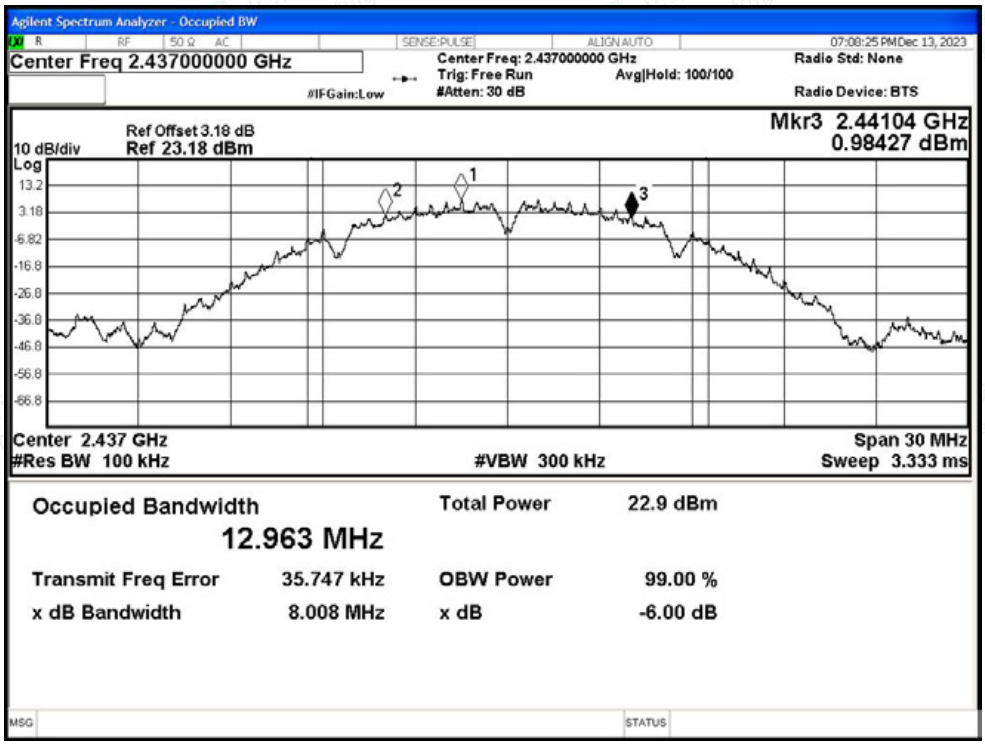
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.038	>=0.5	Pass
NVNT	b	2437	Ant1	8.008	>=0.5	Pass
NVNT	b	2462	Ant1	9.058	>=0.5	Pass
NVNT	g	2412	Ant1	15.631	>=0.5	Pass
NVNT	g	2437	Ant1	15.666	>=0.5	Pass
NVNT	g	2462	Ant1	15.453	>=0.5	Pass
NVNT	n20	2412	Ant1	15.886	>=0.5	Pass
NVNT	n20	2437	Ant1	14.724	>=0.5	Pass
NVNT	n20	2462	Ant1	16.329	>=0.5	Pass
NVNT	n40	2422	Ant1	32.578	>=0.5	Pass
NVNT	n40	2437	Ant1	35.067	>=0.5	Pass
NVNT	n40	2452	Ant1	32.55	>=0.5	Pass

Test Graphs

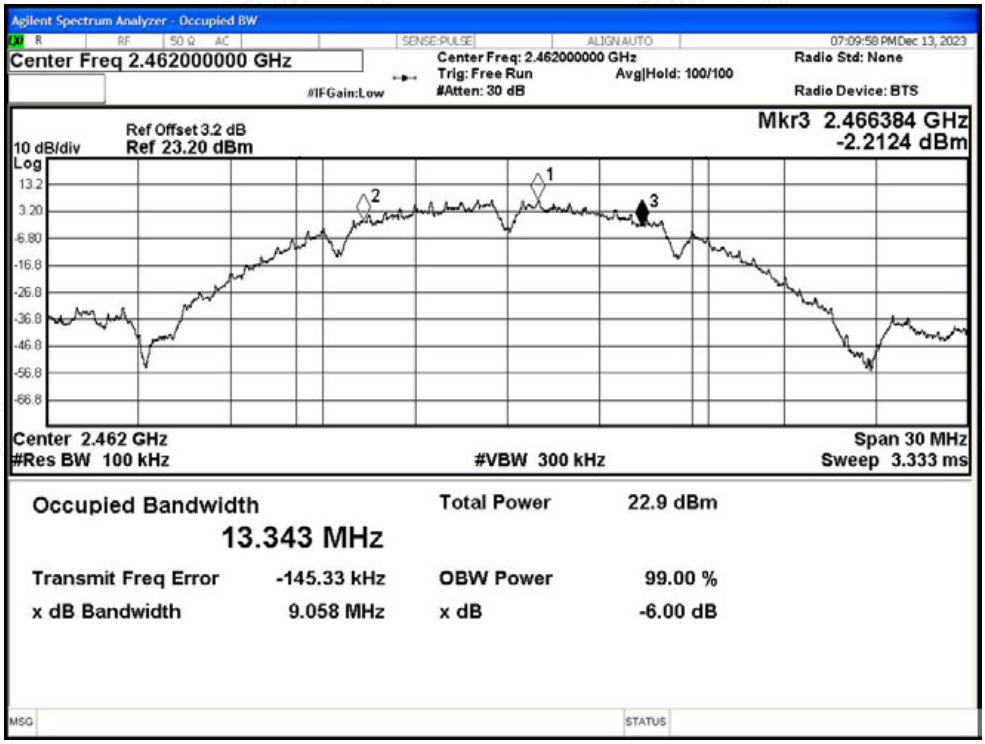
-6dB Bandwidth NVNT b 2412MHz Ant1



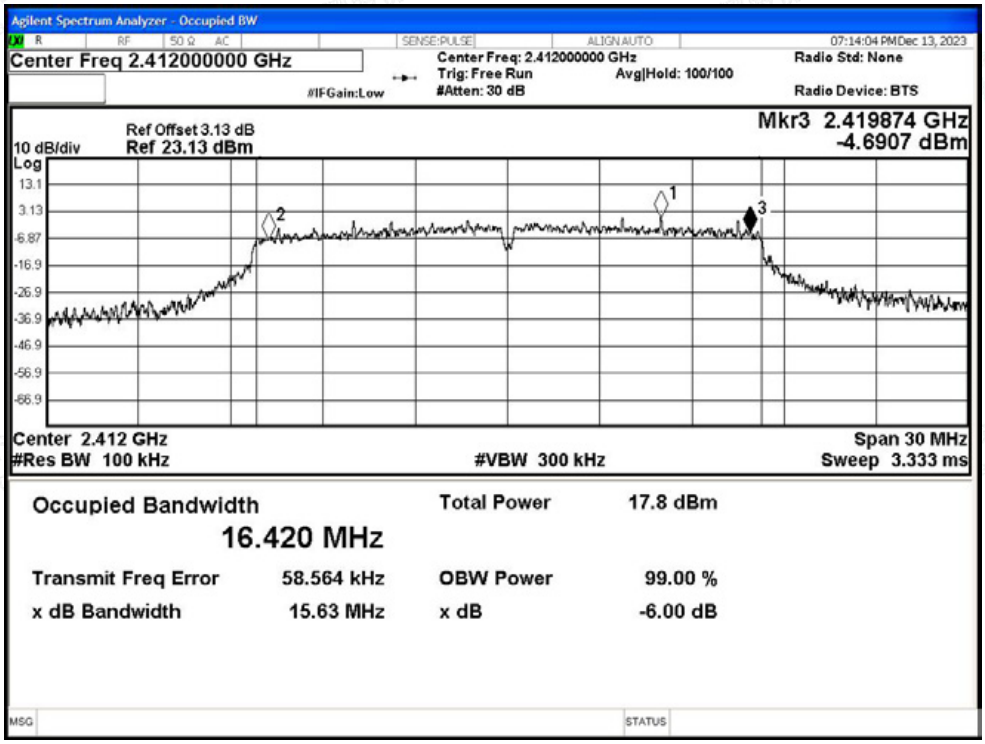
-6dB Bandwidth NVNT b 2437MHz Ant1



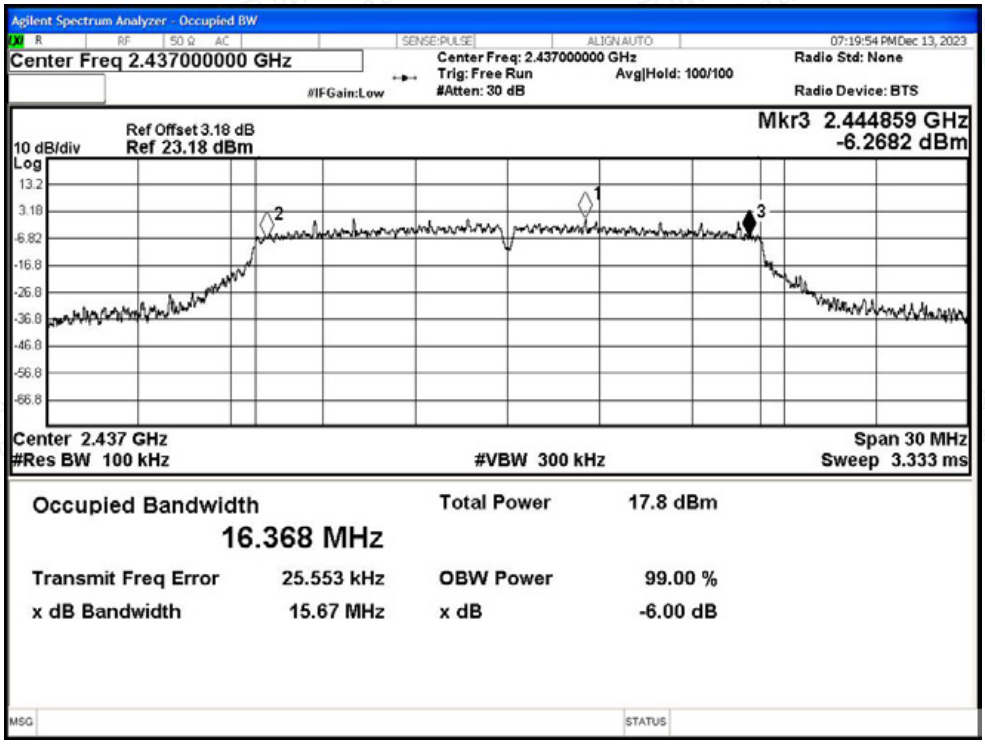
-6dB Bandwidth NVNT b 2462MHz Ant1



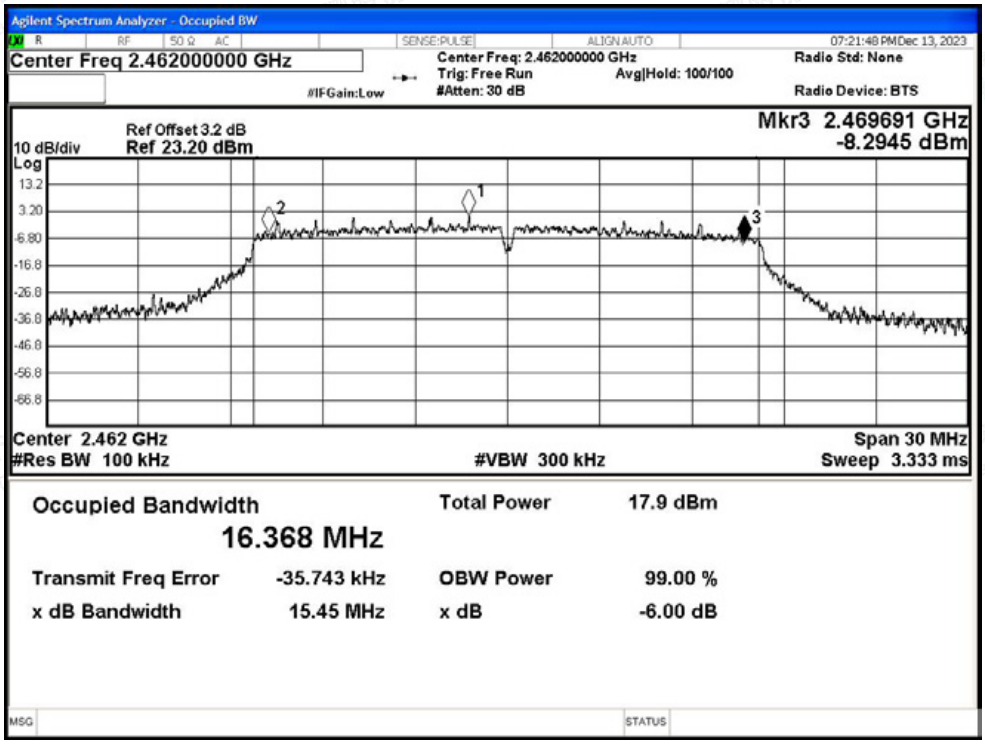
-6dB Bandwidth NVNT g 2412MHz Ant1



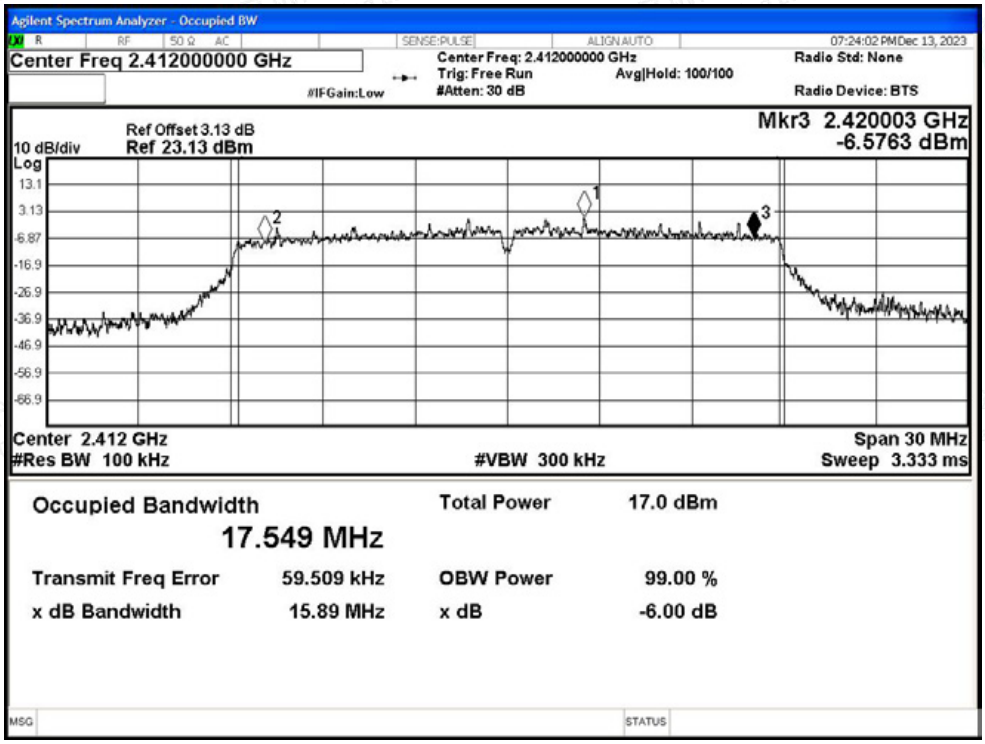
-6dB Bandwidth NVNT g 2437MHz Ant1



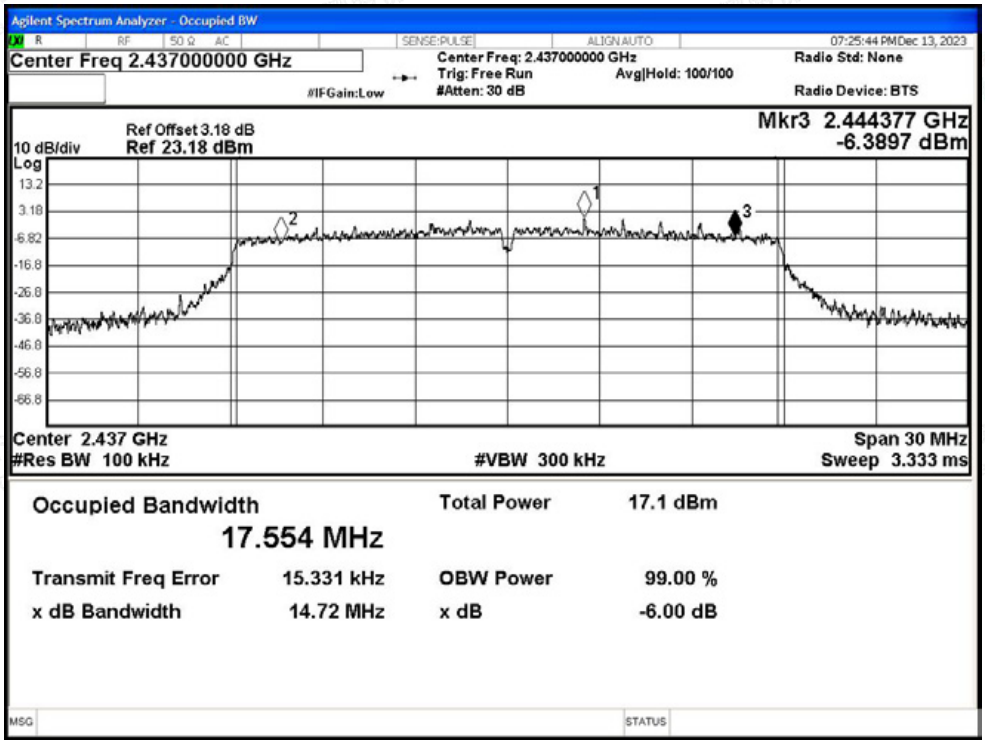
-6dB Bandwidth NVNT g 2462MHz Ant1



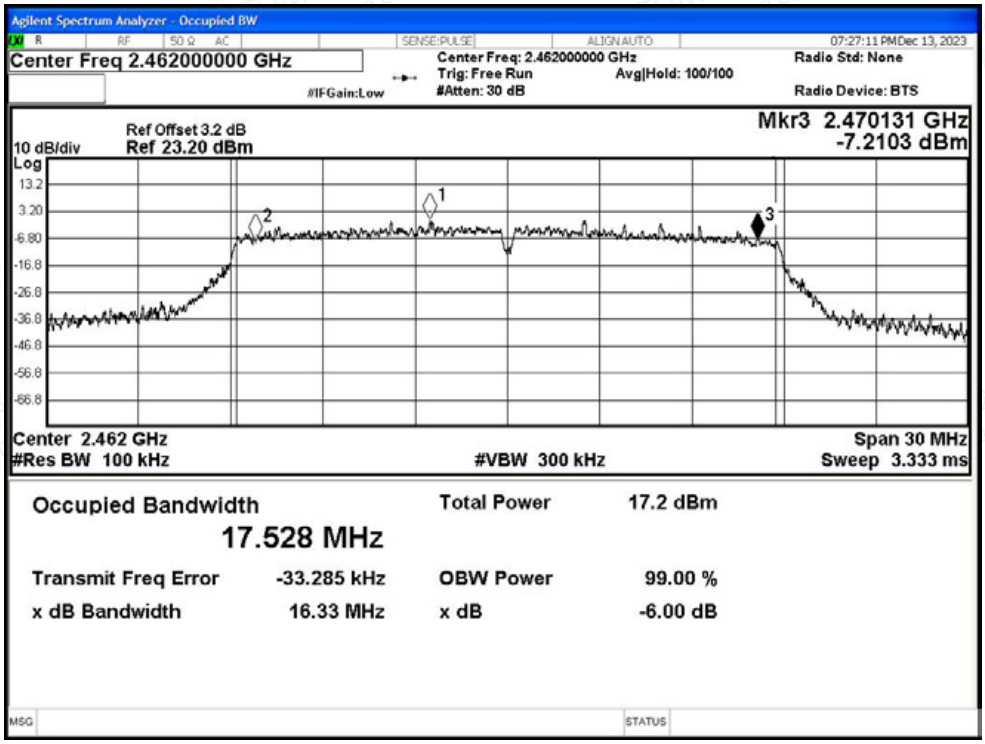
-6dB Bandwidth NVNT n20 2412MHz Ant1



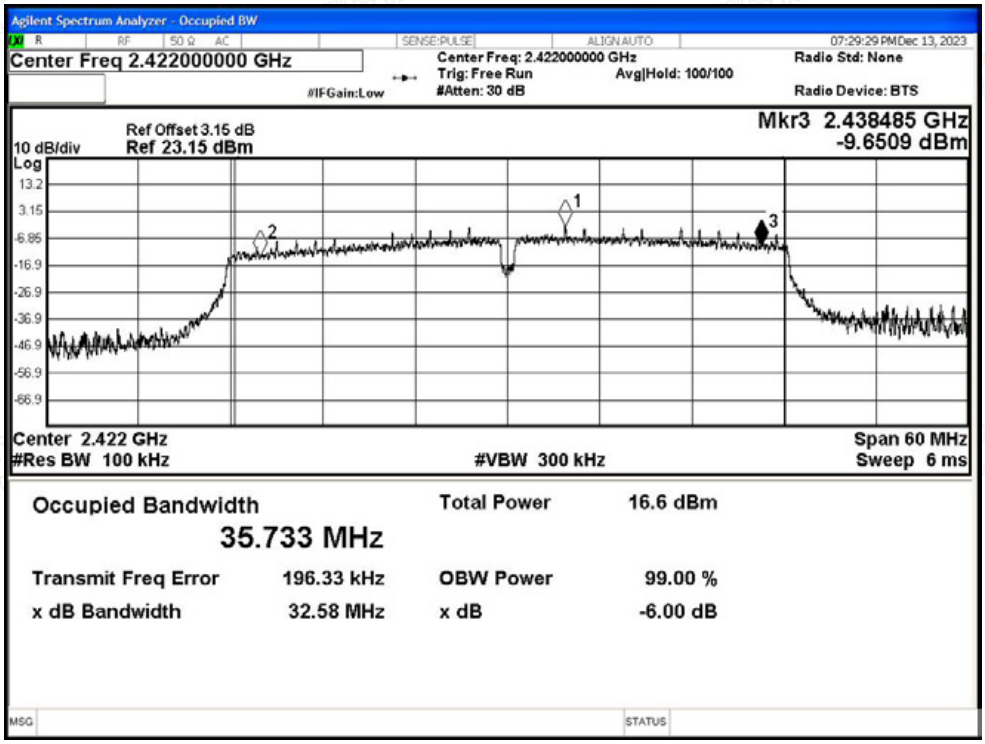
-6dB Bandwidth NVNT n20 2437MHz Ant1



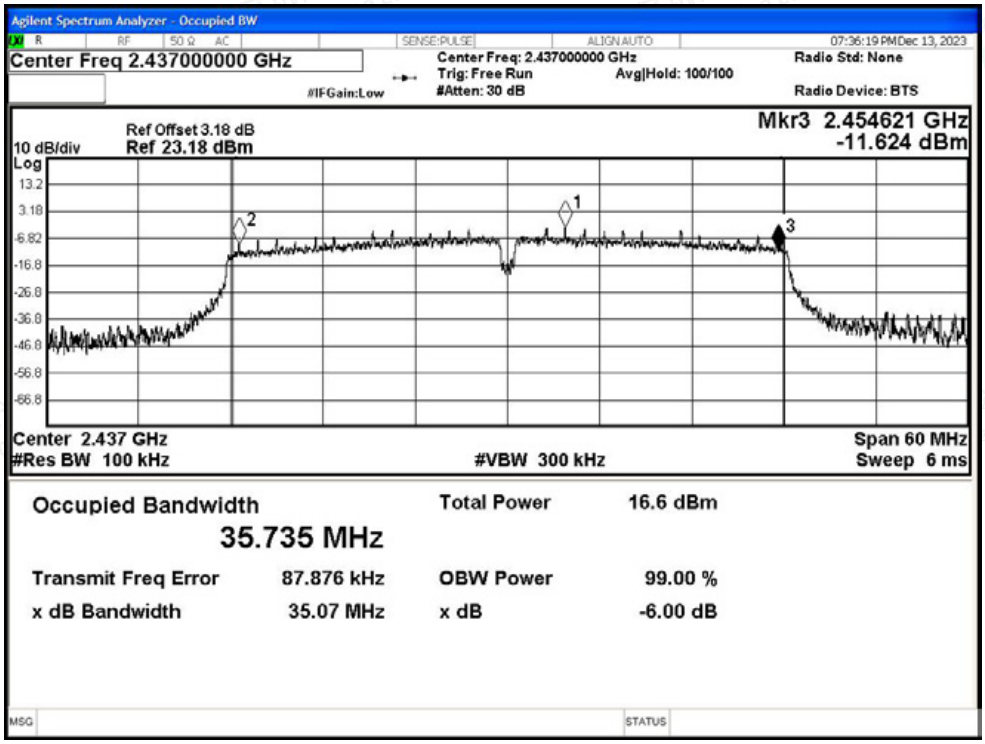
-6dB Bandwidth NVNT n20 2462MHz Ant1



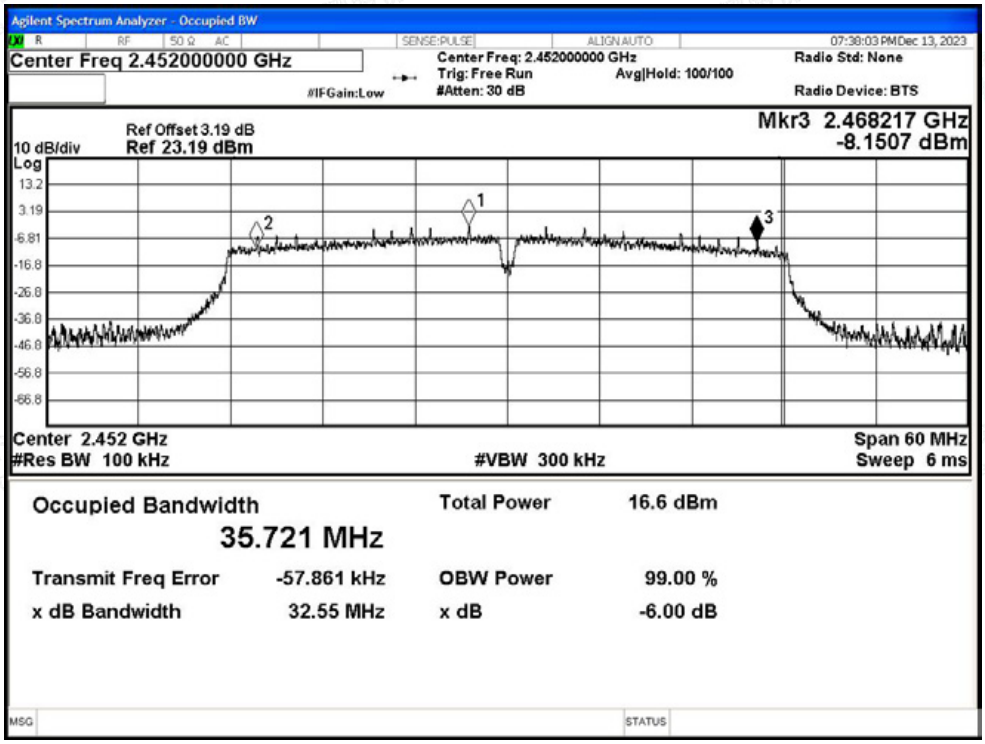
-6dB Bandwidth NVNT n40 2422MHz Ant1



-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1



C.2 Maximum Conducted Output Power

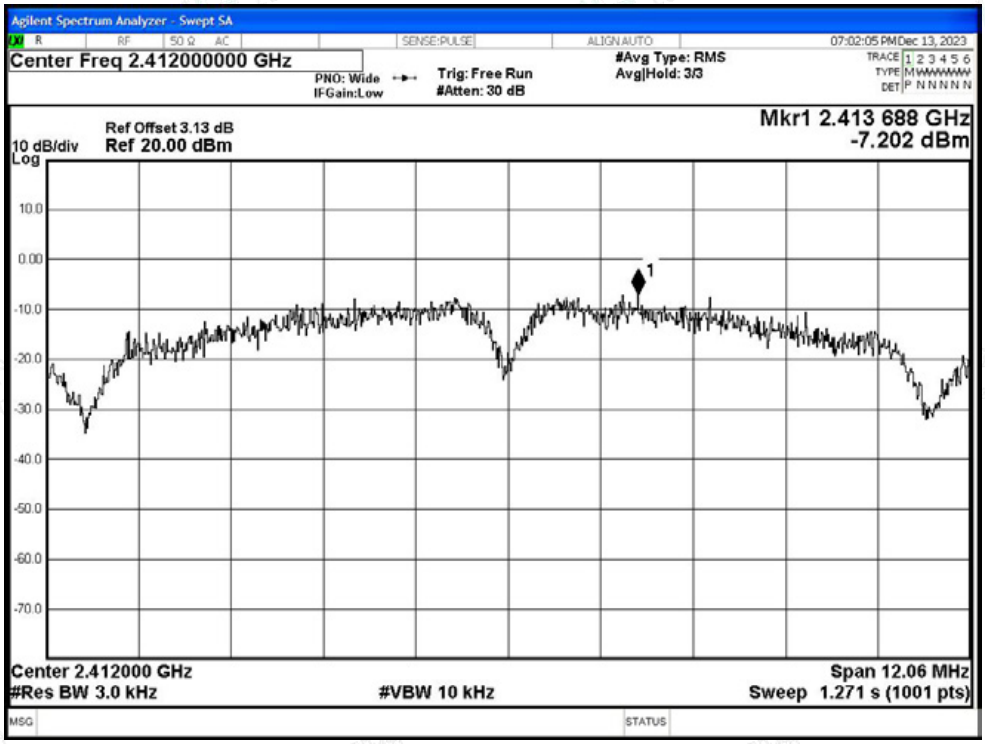
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	17.44	30	Pass
NVNT	b	2437	Ant1	17.84	30	Pass
NVNT	b	2462	Ant1	17.89	30	Pass
NVNT	g	2412	Ant1	16.67	30	Pass
NVNT	g	2437	Ant1	16.55	30	Pass
NVNT	g	2462	Ant1	16.58	30	Pass
NVNT	n20	2412	Ant1	15.59	30	Pass
NVNT	n20	2437	Ant1	15.75	30	Pass
NVNT	n20	2462	Ant1	15.75	30	Pass
NVNT	n40	2422	Ant1	15.03	30	Pass
NVNT	n40	2437	Ant1	15.04	30	Pass
NVNT	n40	2452	Ant1	15.09	30	Pass

C.3 Maximum Power Spectral Density Level

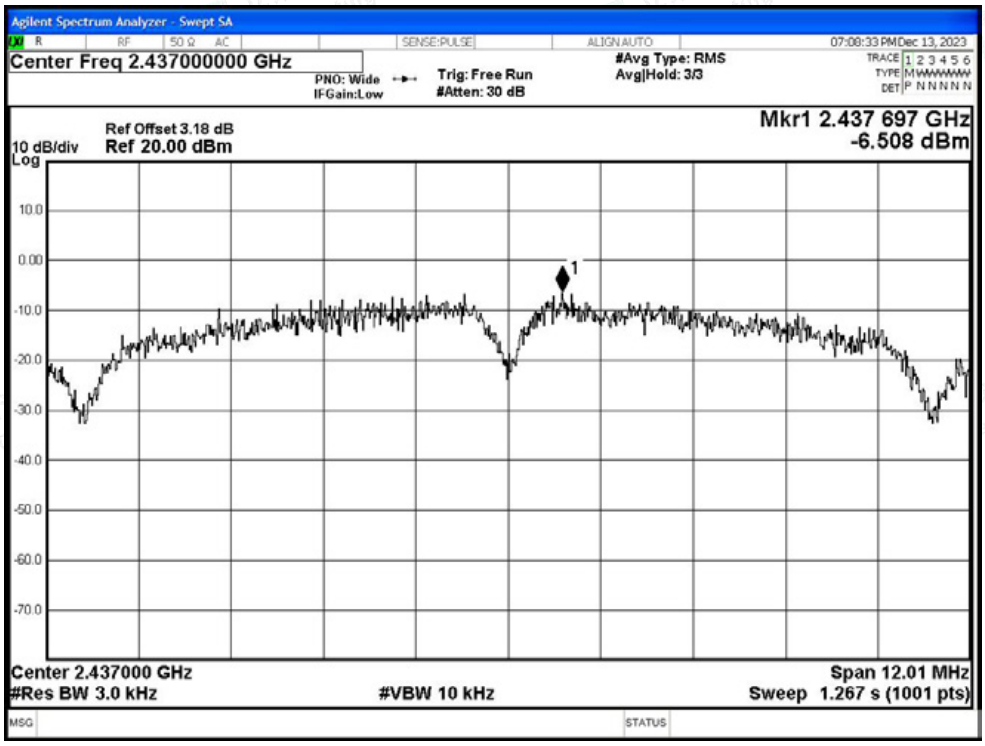
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-7.2	8	Pass
NVNT	b	2437	Ant1	-6.51	8	Pass
NVNT	b	2462	Ant1	-5.59	8	Pass
NVNT	g	2412	Ant1	-12.19	8	Pass
NVNT	g	2437	Ant1	-12.51	8	Pass
NVNT	g	2462	Ant1	-13.07	8	Pass
NVNT	n20	2412	Ant1	-13.98	8	Pass
NVNT	n20	2437	Ant1	-14.1	8	Pass
NVNT	n20	2462	Ant1	-12.92	8	Pass
NVNT	n40	2422	Ant1	-17.98	8	Pass
NVNT	n40	2437	Ant1	-17.25	8	Pass
NVNT	n40	2452	Ant1	-17.22	8	Pass

Test Graphs

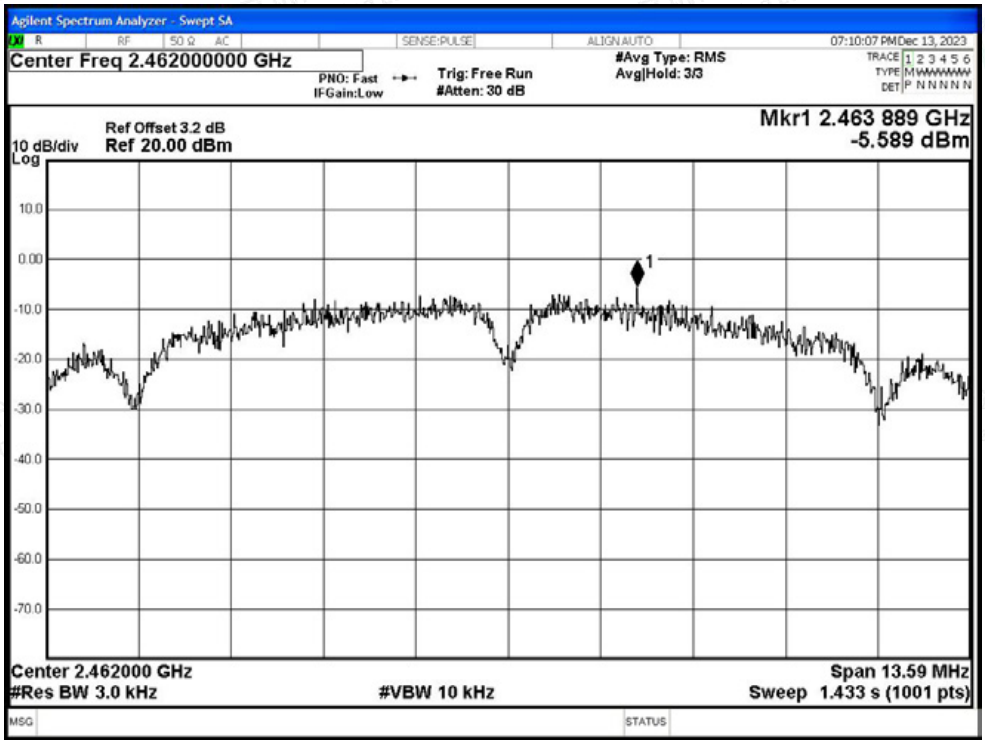
PSD NVNT b 2412MHz Ant1



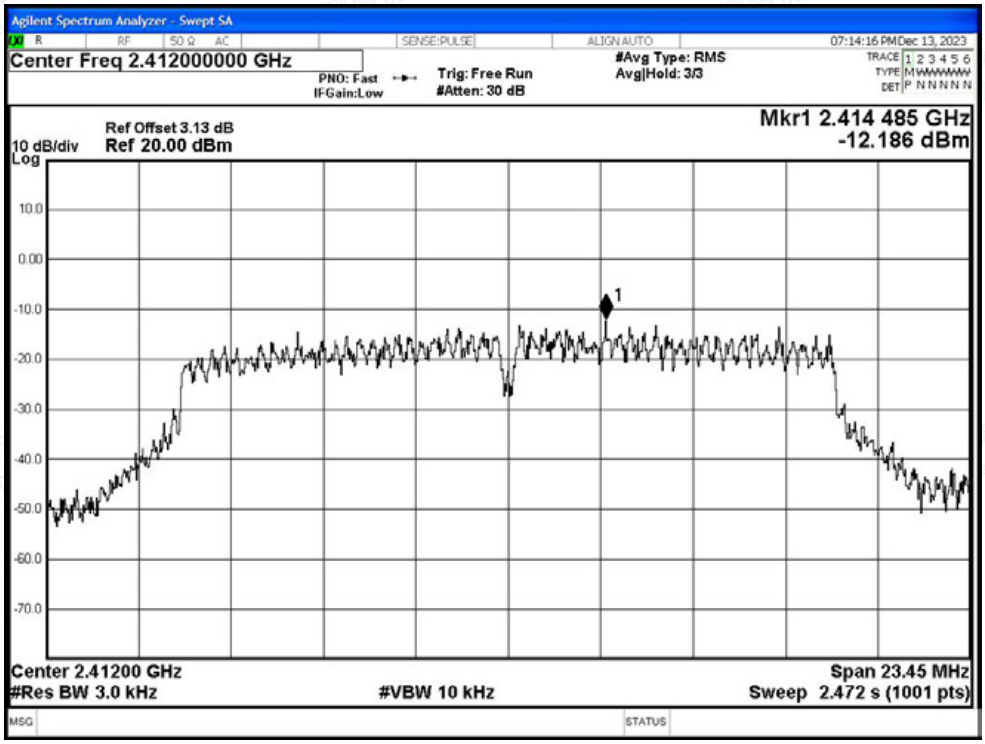
PSD NVNT b 2437MHz Ant1



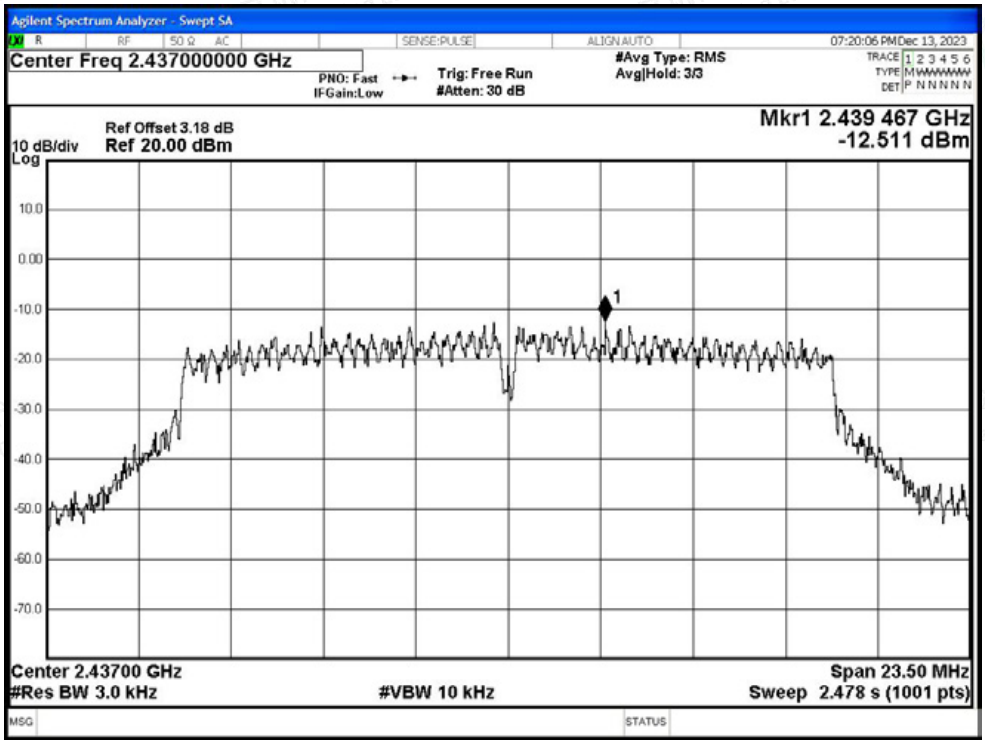
PSD NVNT b 2462MHz Ant1



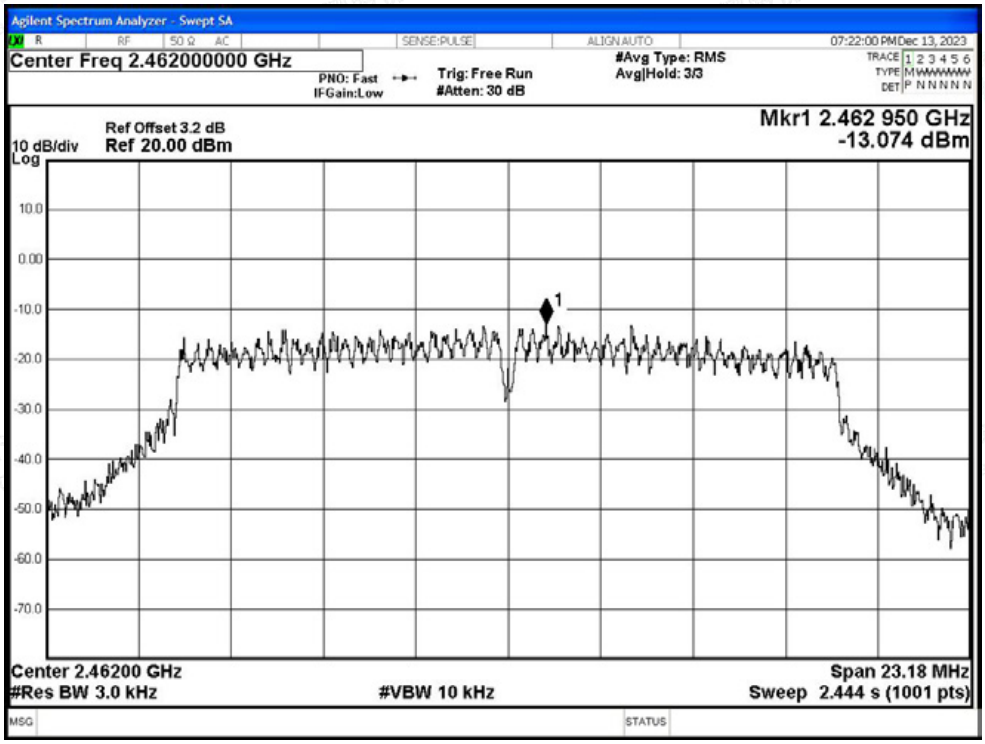
PSD NVNT g 2412MHz Ant1



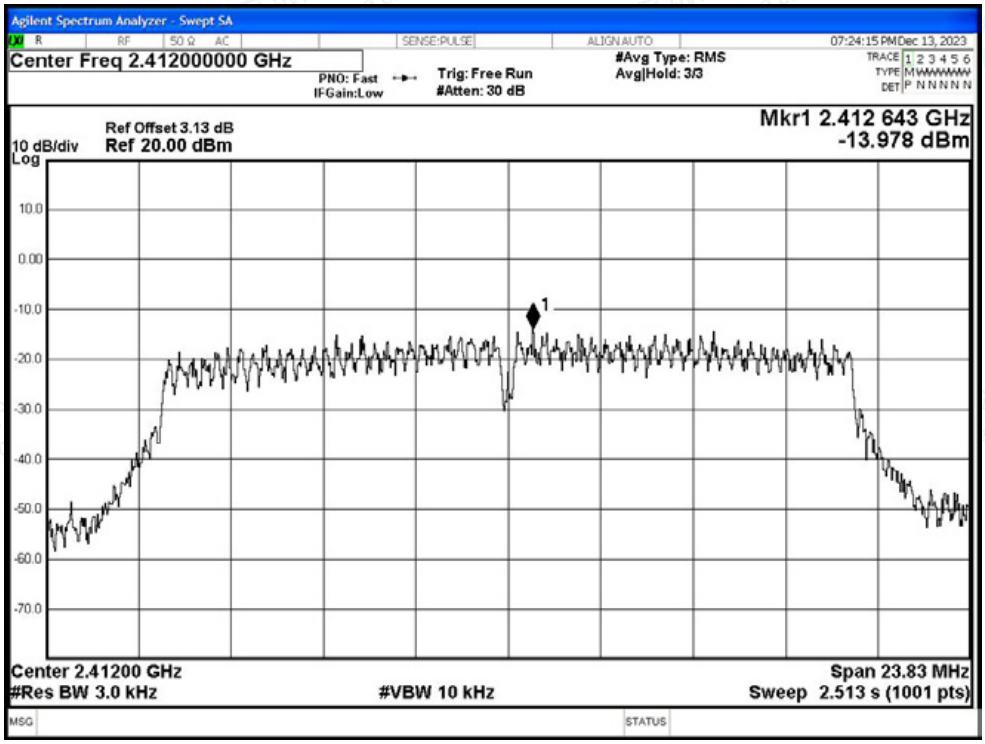
PSD NVNT g 2437MHz Ant1



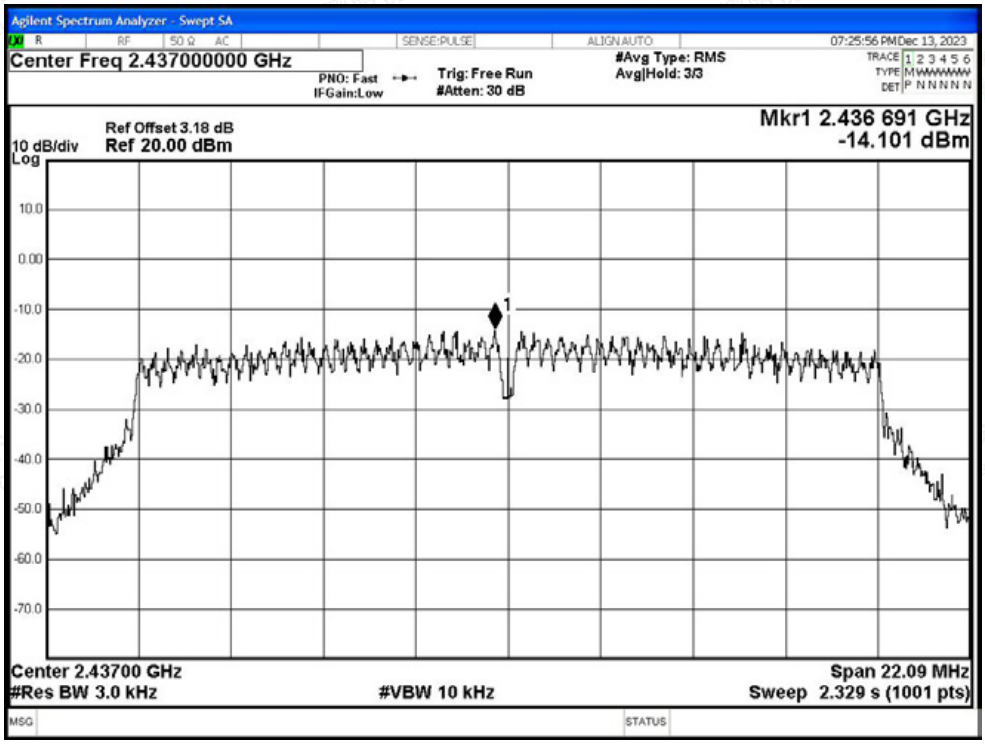
PSD NVNT g 2462MHz Ant1



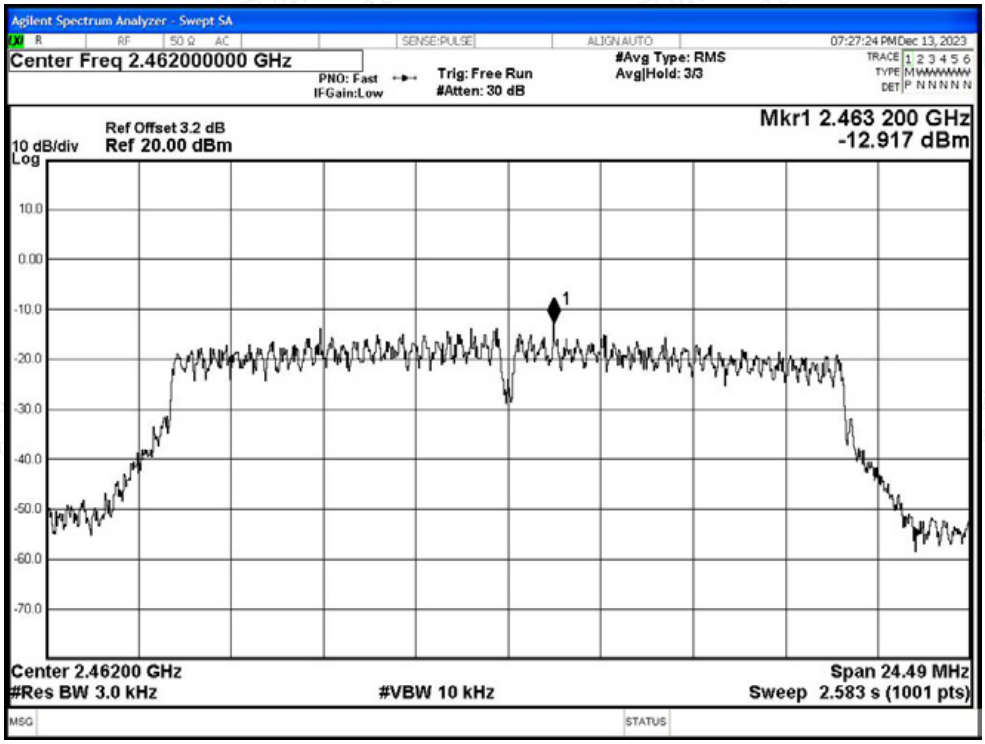
PSD NVNT n20 2412MHz Ant1



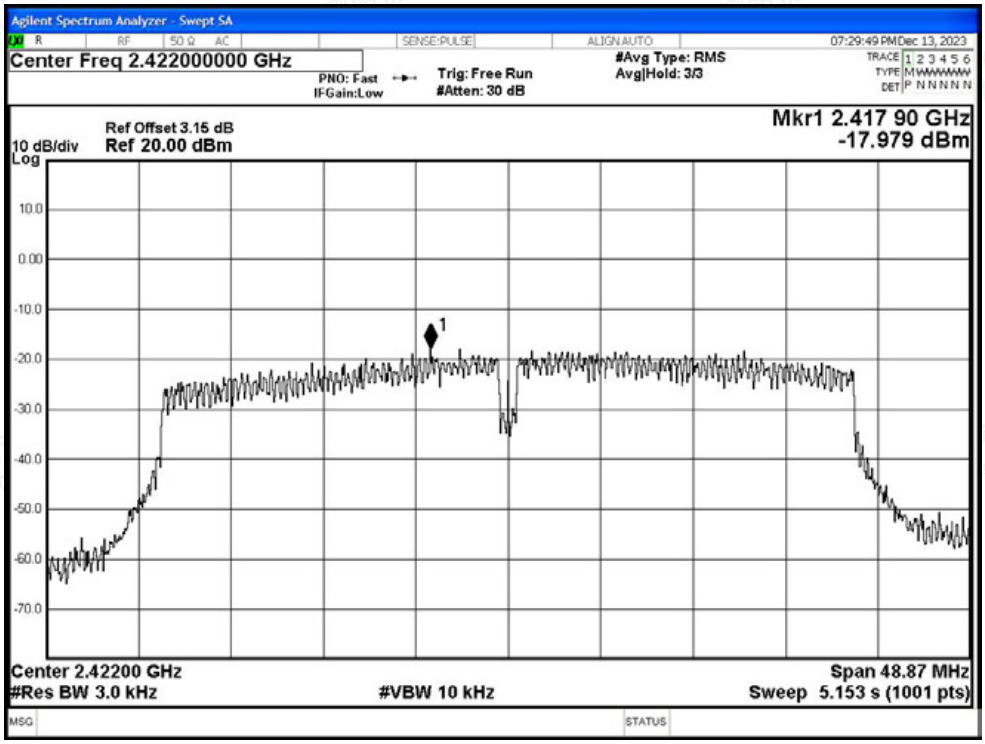
PSD NVNT n20 2437MHz Ant1



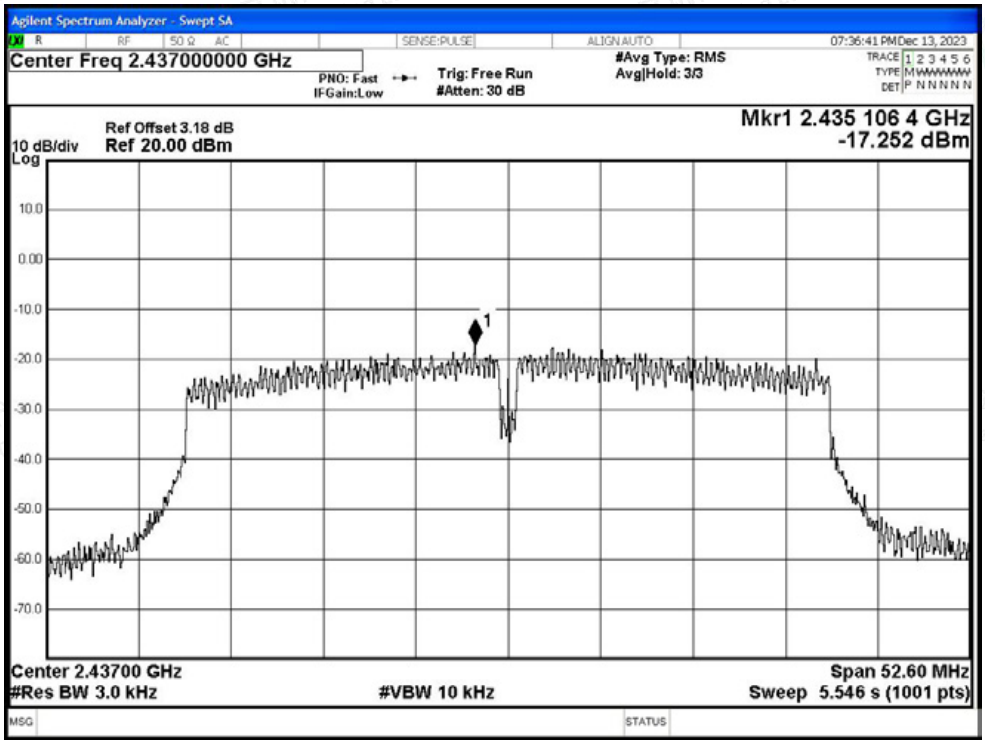
PSD NVNT n20 2462MHz Ant1



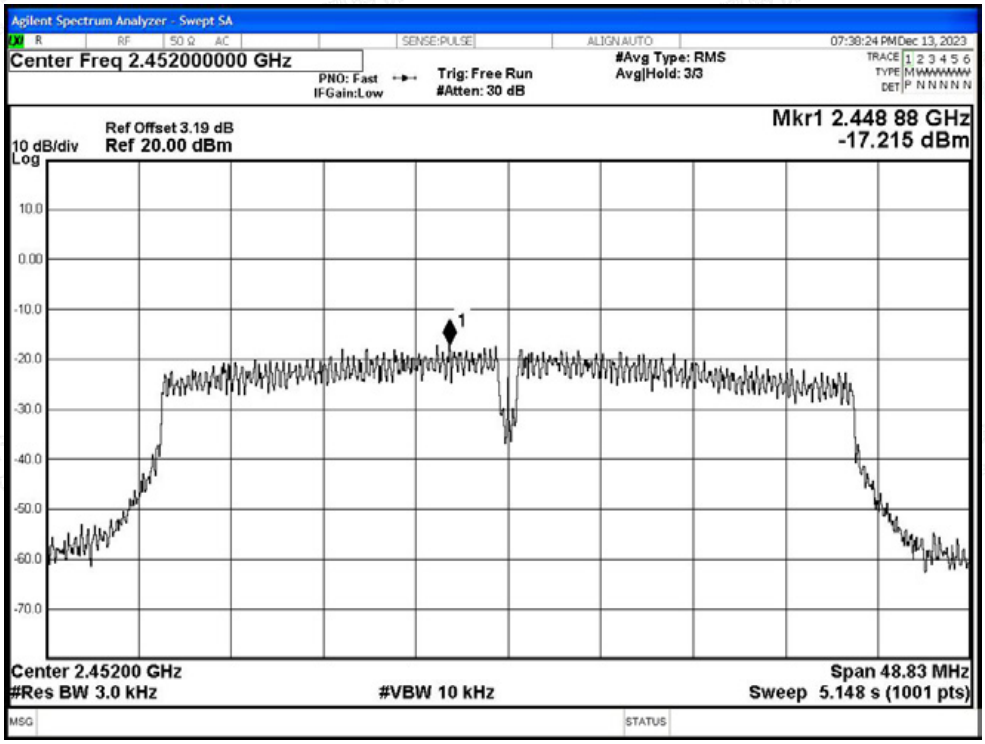
PSD NVNT n40 2422MHz Ant1



PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2452MHz Ant1

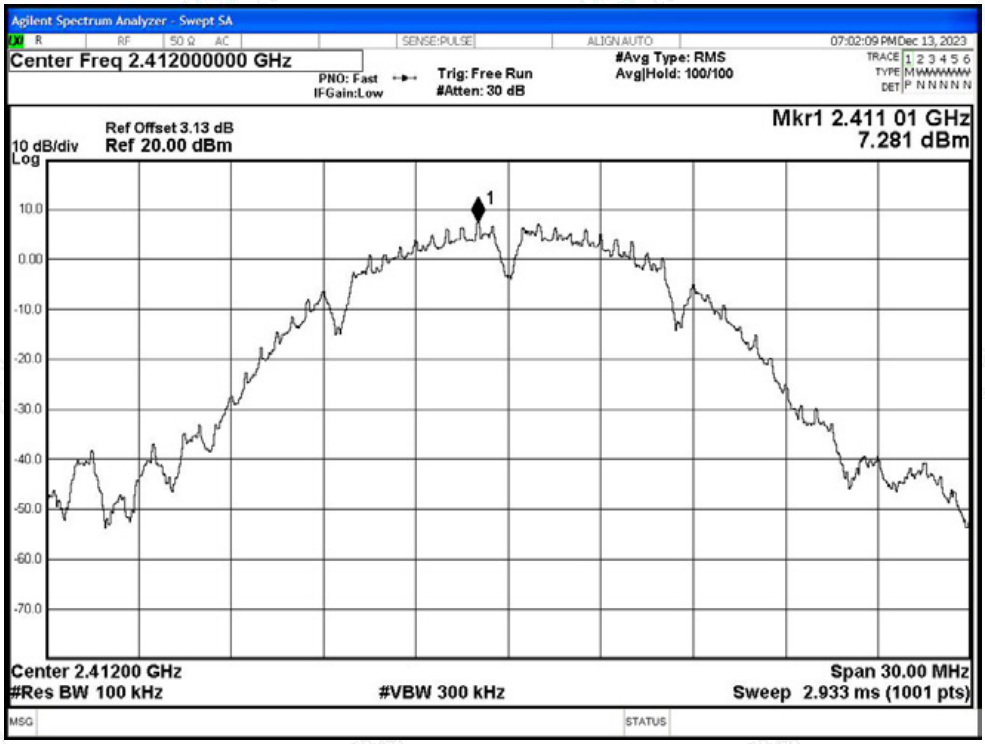


C.4 Band Edge

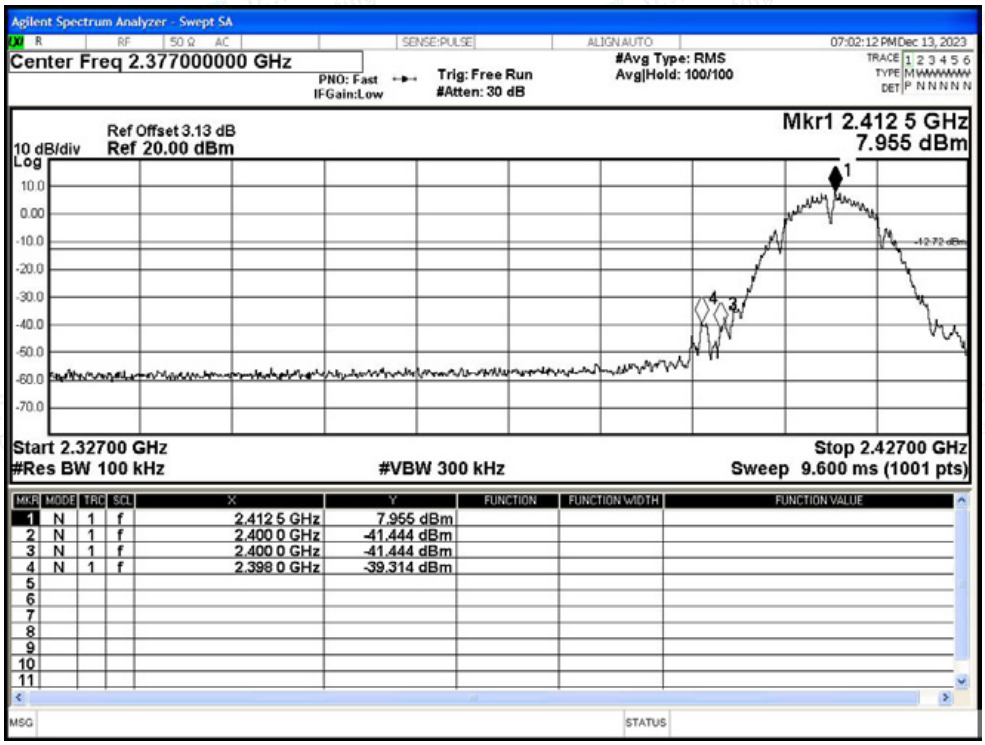
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-46.6	-20	Pass
NVNT	b	2462	Ant1	-59.28	-20	Pass
NVNT	g	2412	Ant1	-31.23	-20	Pass
NVNT	g	2462	Ant1	-50.52	-20	Pass
NVNT	n20	2412	Ant1	-34.06	-20	Pass
NVNT	n20	2462	Ant1	-49.69	-20	Pass
NVNT	n40	2422	Ant1	-37.97	-20	Pass
NVNT	n40	2452	Ant1	-38.07	-20	Pass

Test Graphs

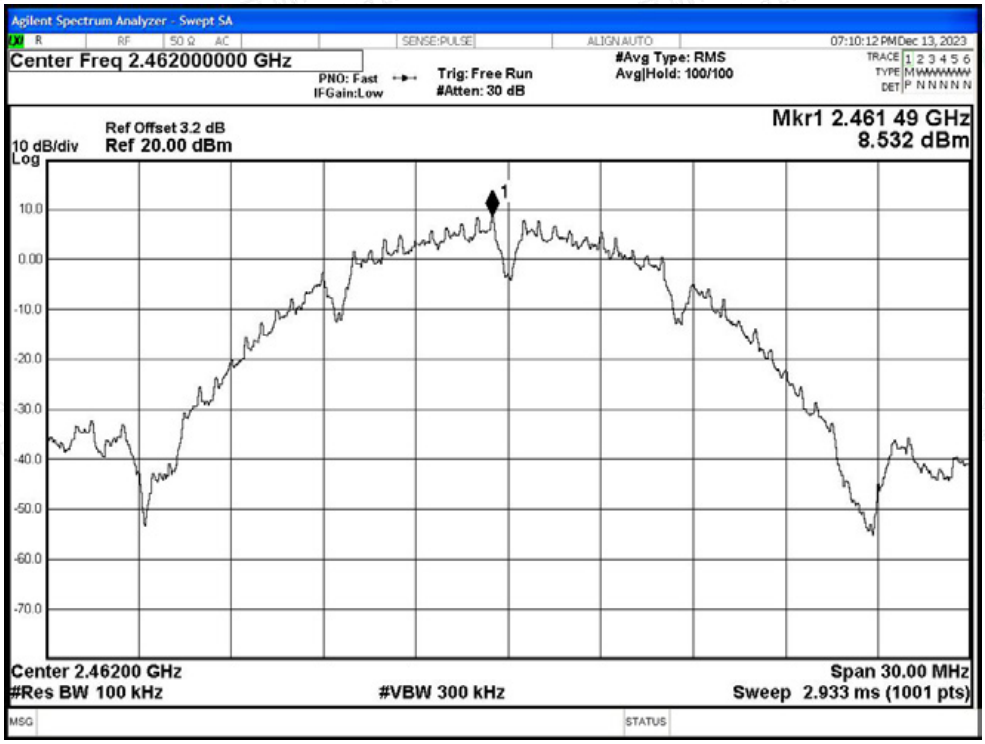
Band Edge NVNT b 2412MHz Ant1 Ref



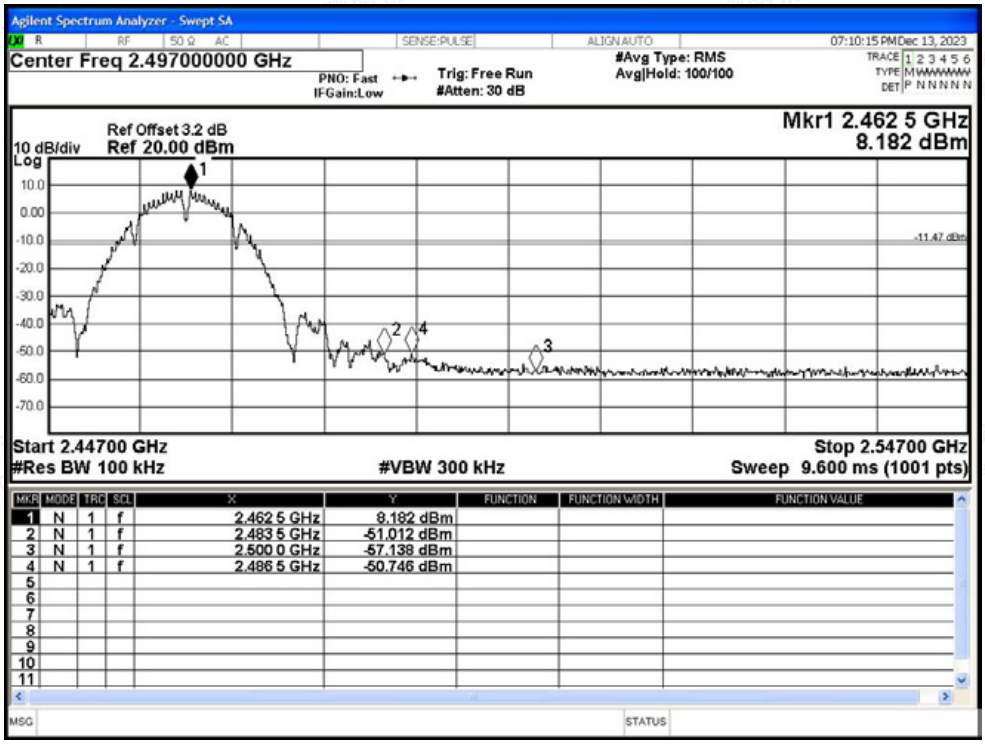
Band Edge NVNT b 2412MHz Ant1 Emission



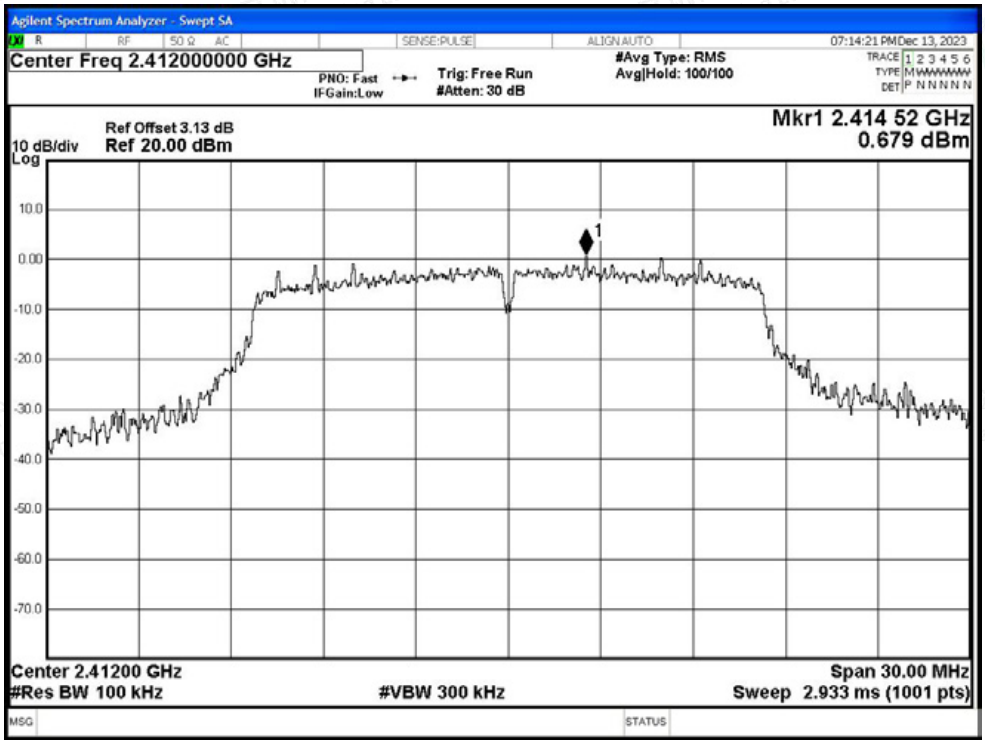
Band Edge NVNT b 2462MHz Ant1 Ref



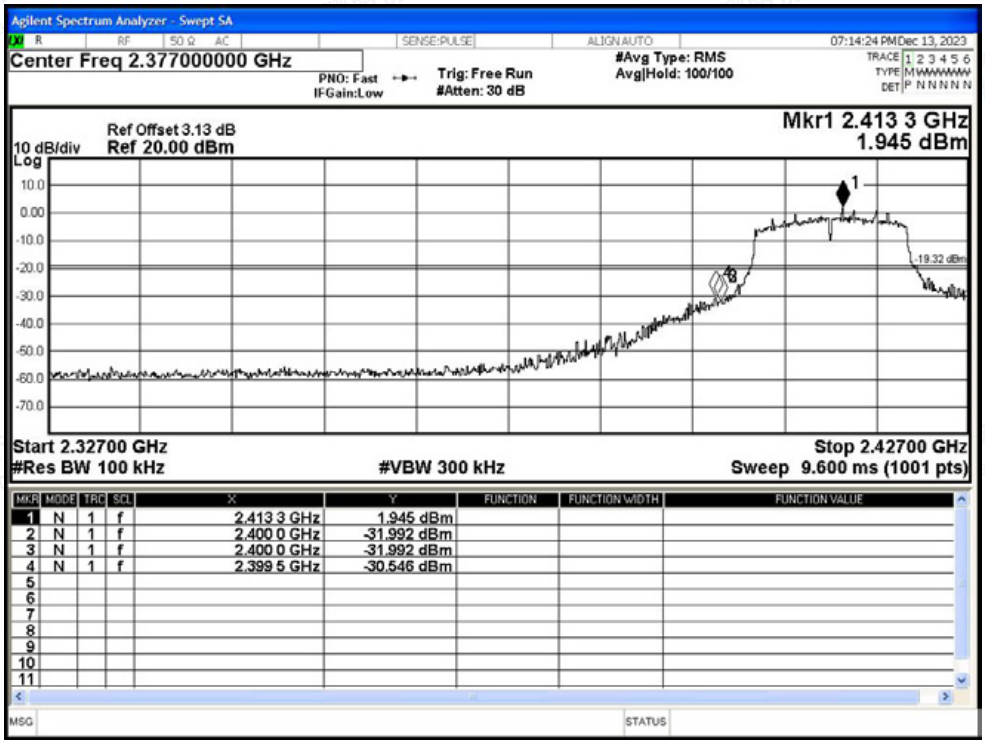
Band Edge NVNT b 2462MHz Ant1 Emission



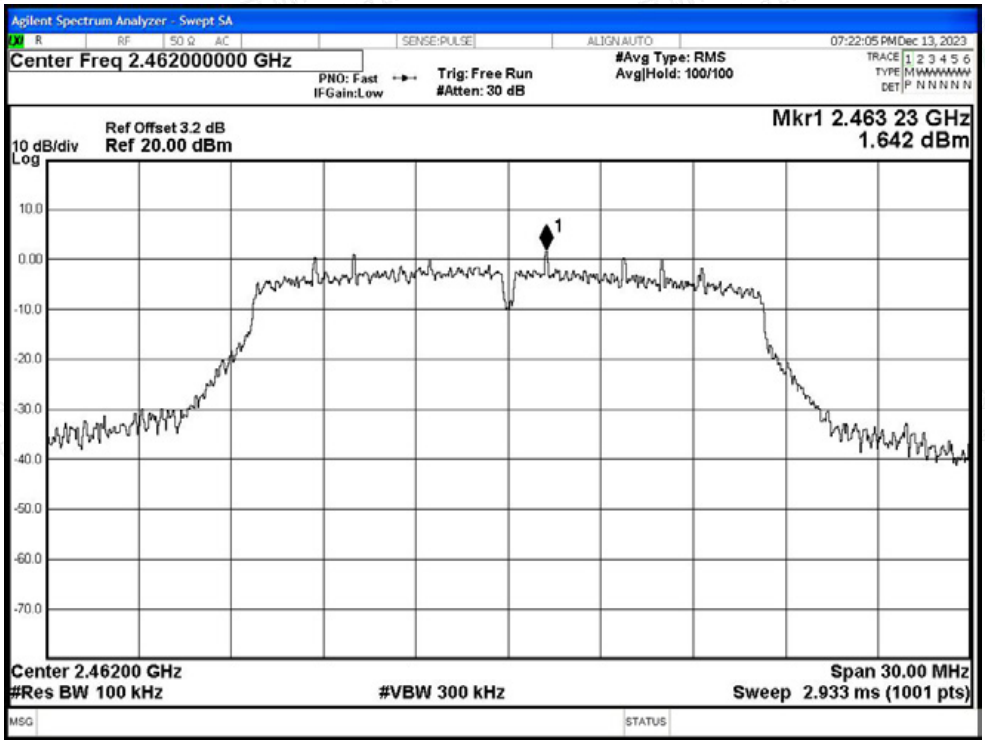
Band Edge NVNT g 2412MHz Ant1 Ref



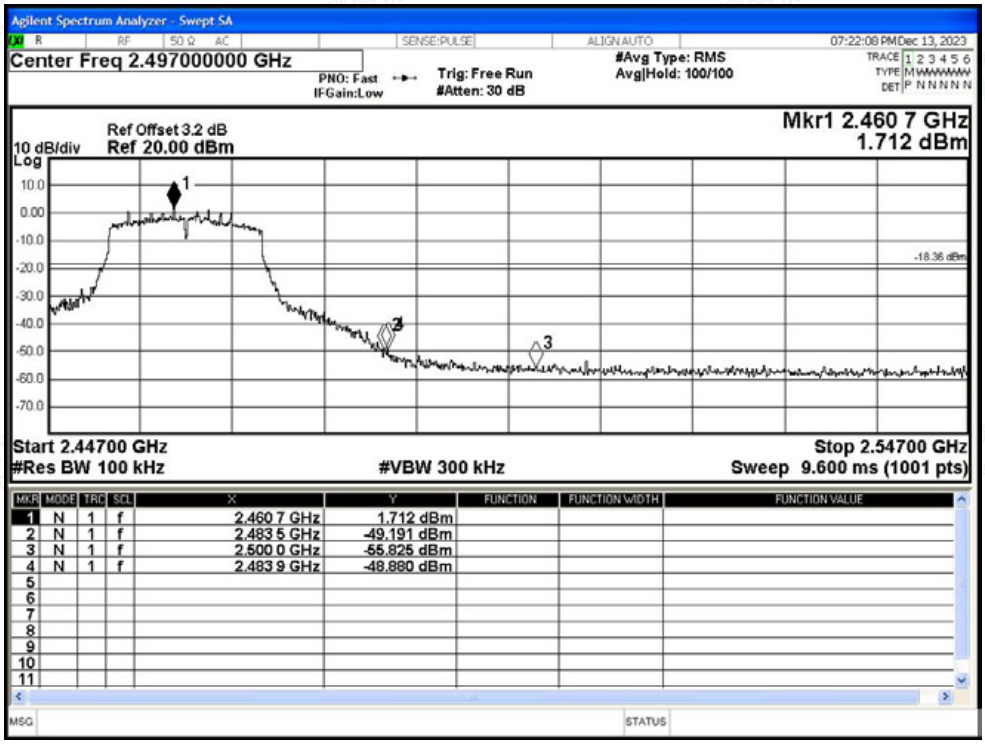
Band Edge NVNT g 2412MHz Ant1 Emission



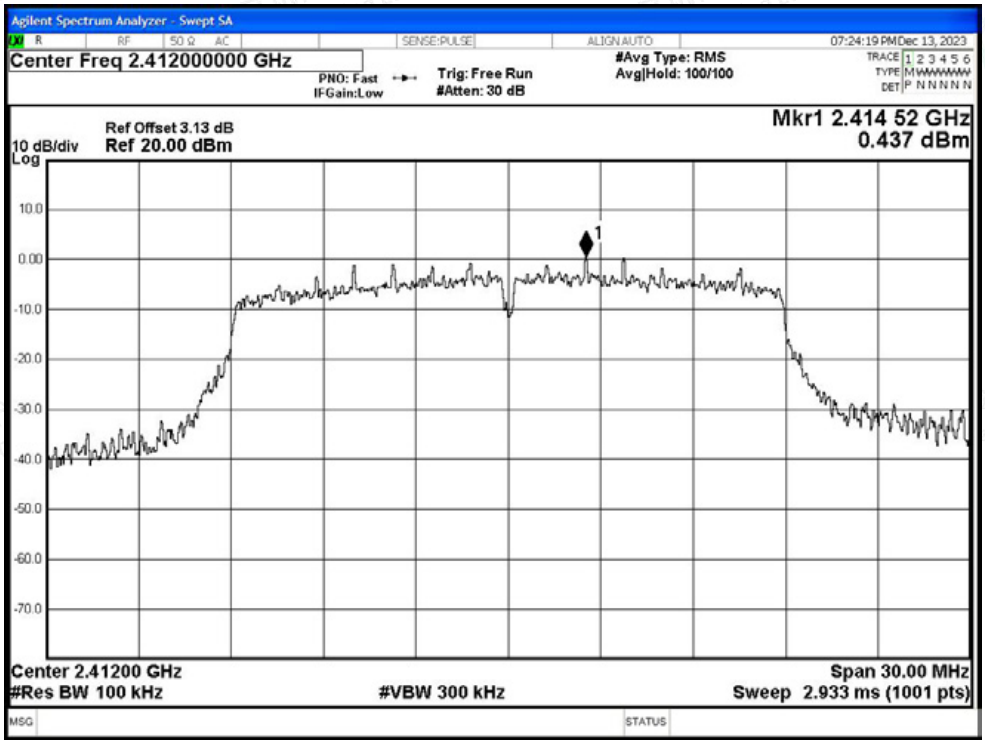
Band Edge NVNT g 2462MHz Ant1 Ref



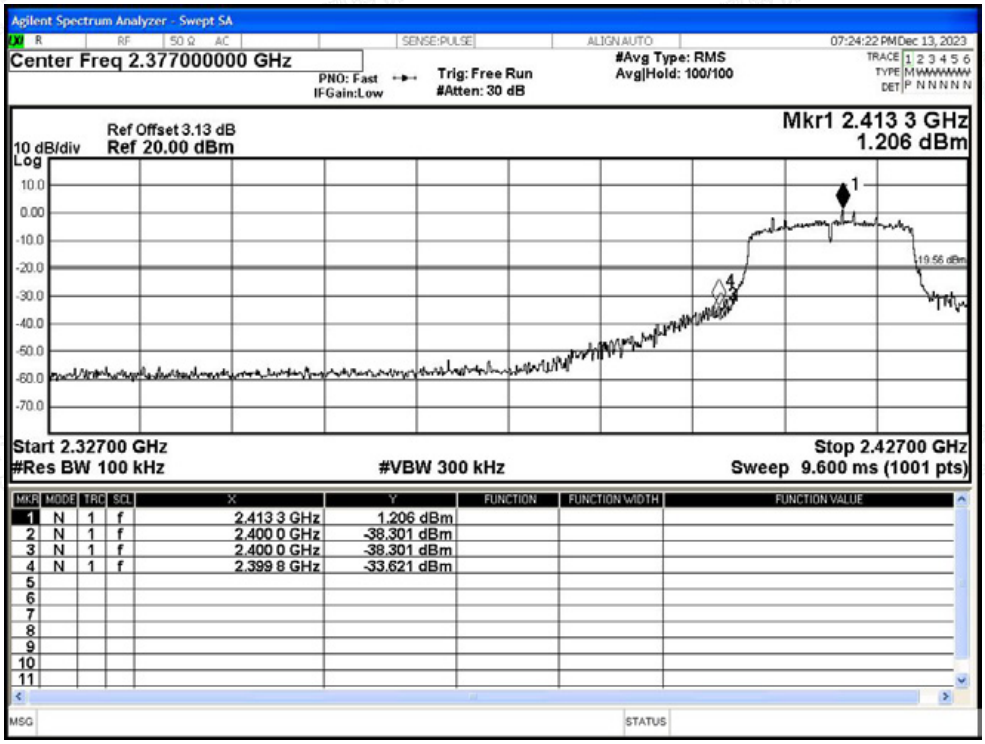
Band Edge NVNT g 2462MHz Ant1 Emission



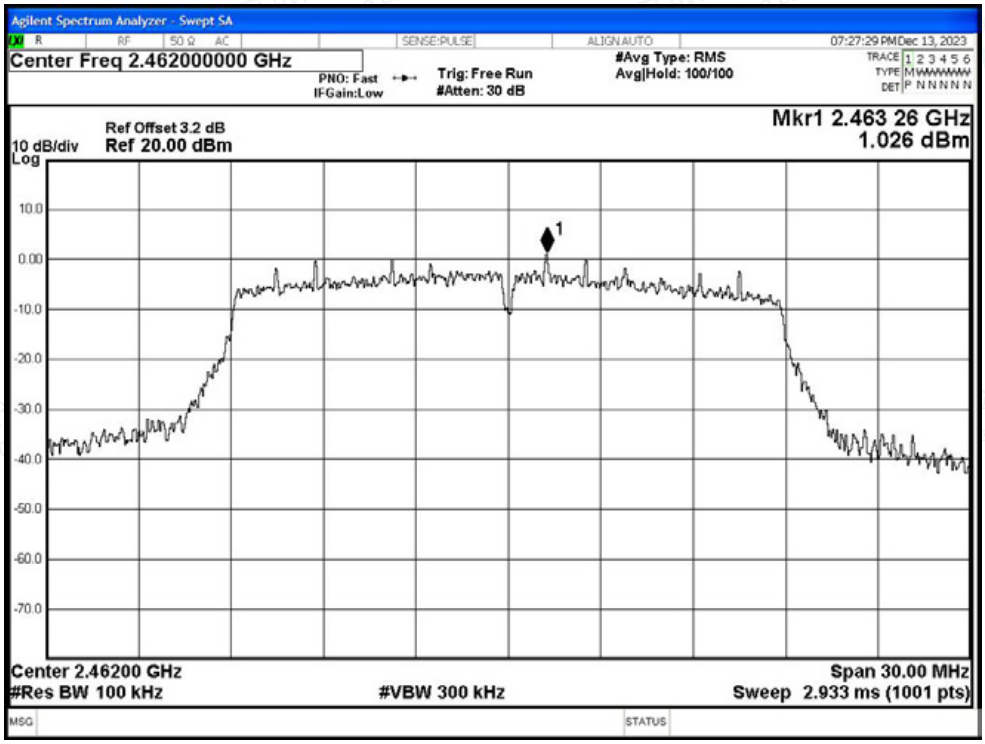
Band Edge NVNT n20 2412MHz Ant1 Ref



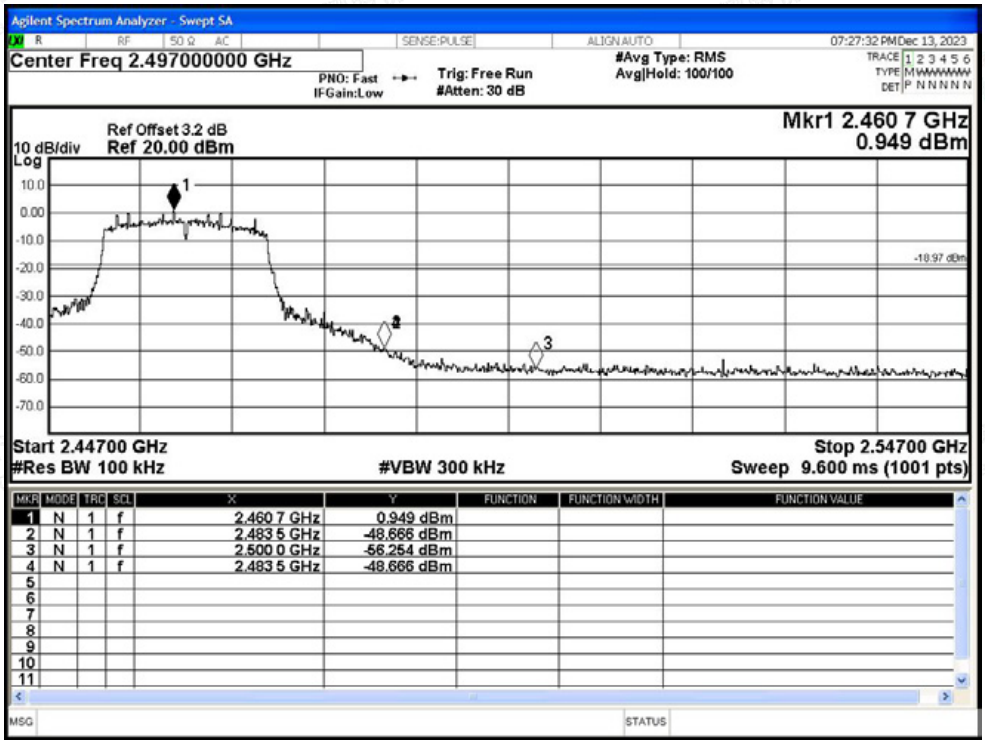
Band Edge NVNT n20 2412MHz Ant1 Emission



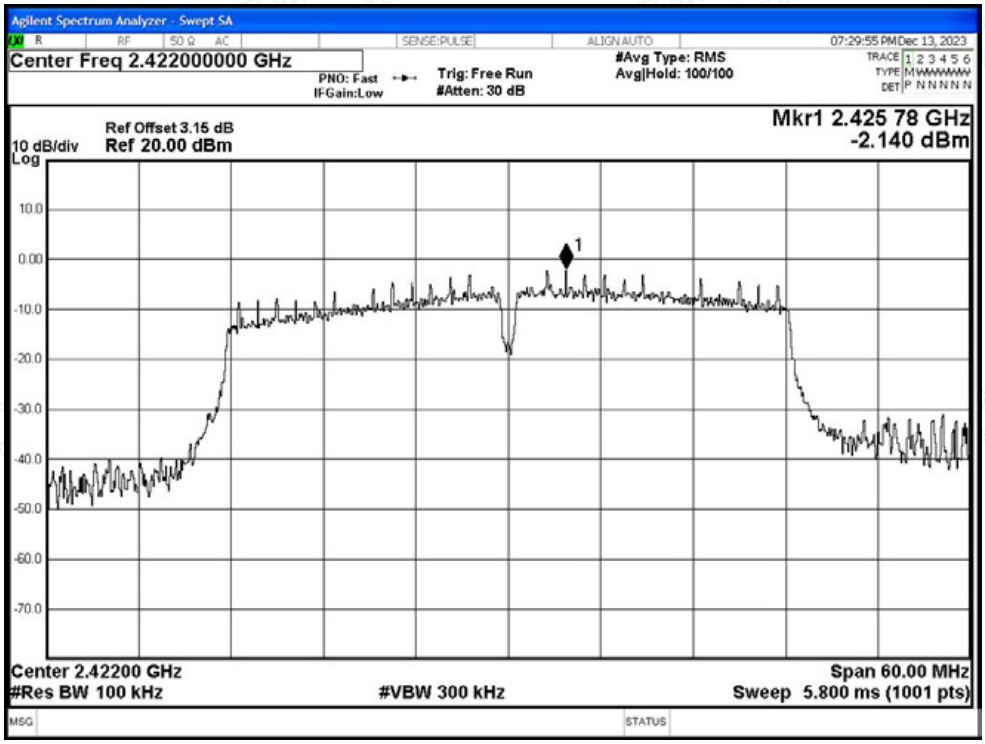
Band Edge NVNT n20 2462MHz Ant1 Ref



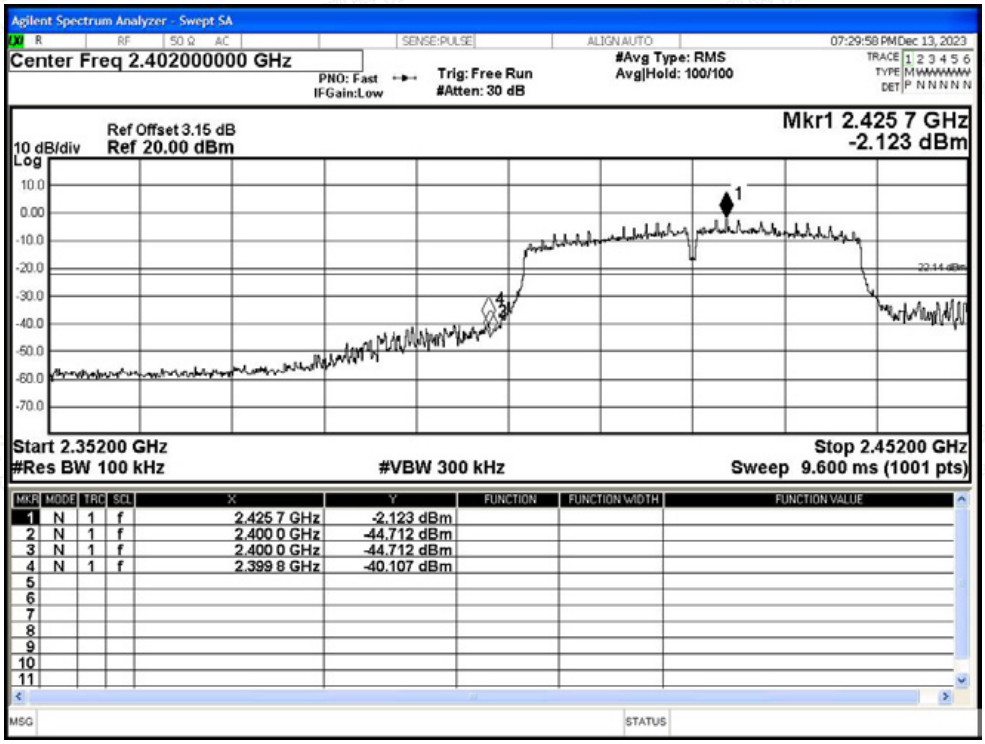
Band Edge NVNT n20 2462MHz Ant1 Emission



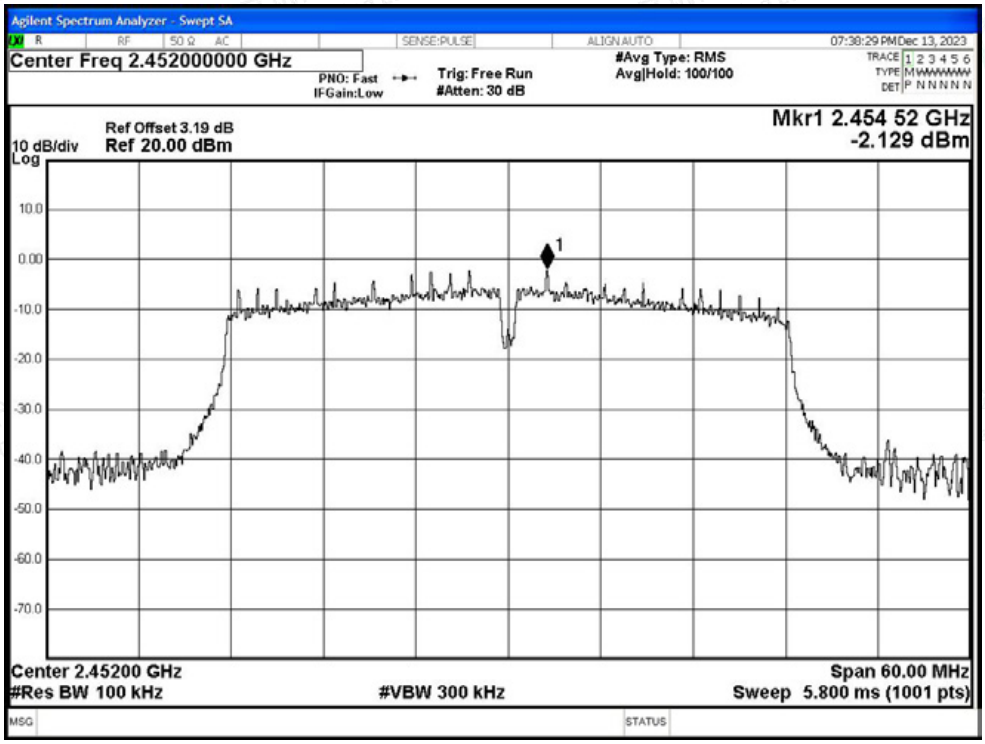
Band Edge NVNT n40 2422MHz Ant1 Ref



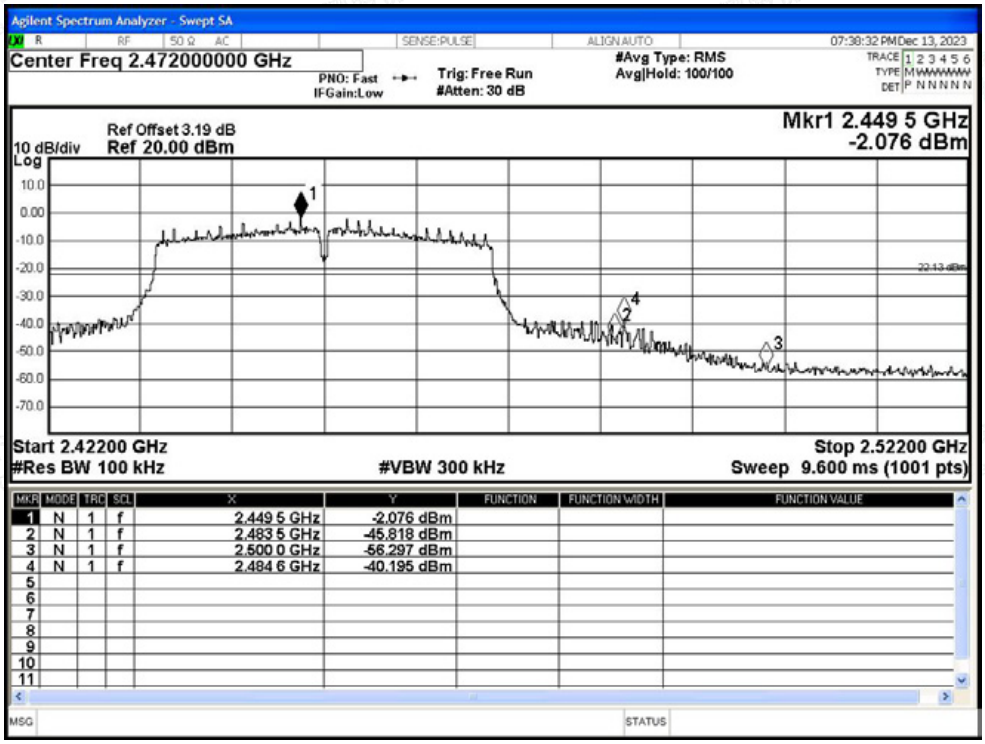
Band Edge NVNT n40 2422MHz Ant1 Emission



Band Edge NVNT n40 2452MHz Ant1 Ref



Band Edge NVNT n40 2452MHz Ant1 Emission

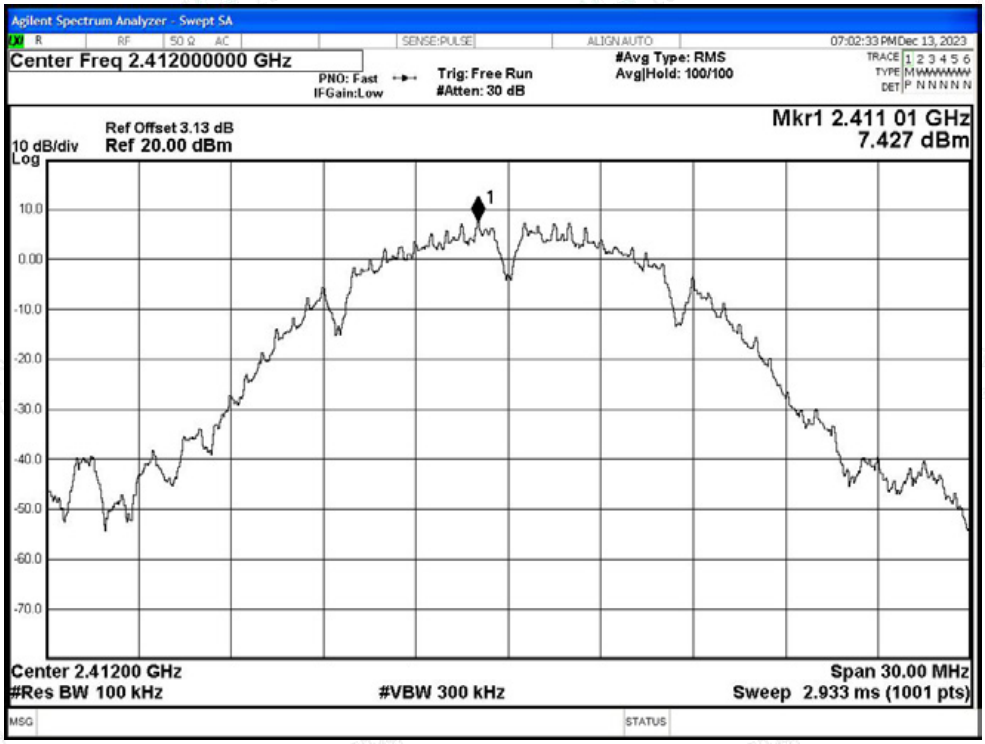


C.5 Conducted RF Spurious Emission

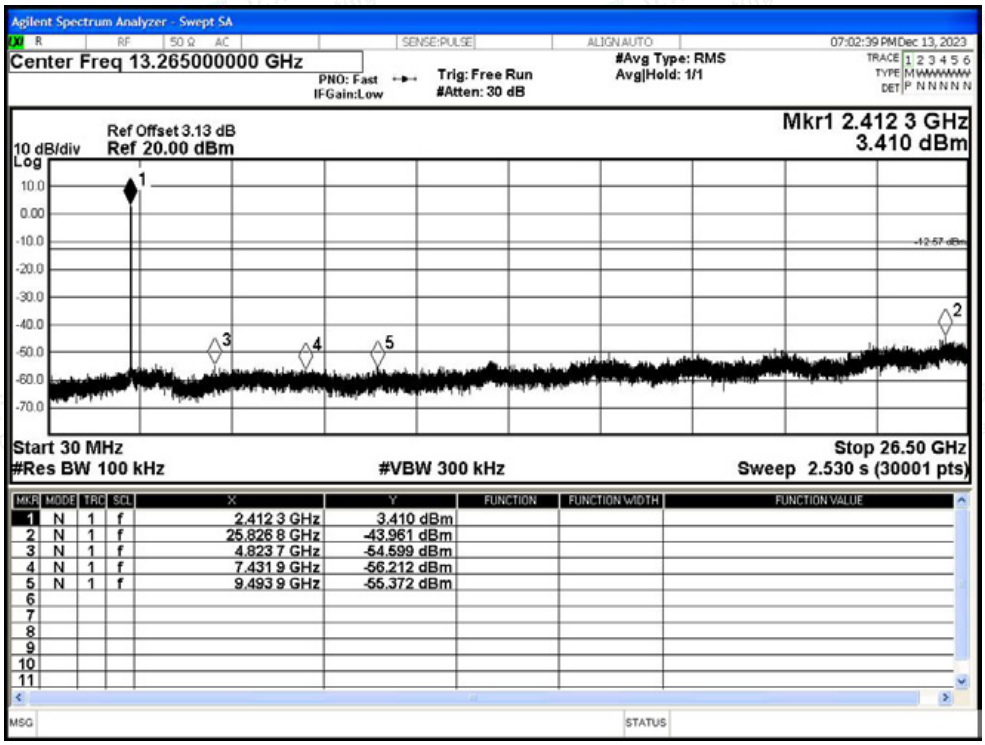
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-51.39	-20	Pass
NVNT	b	2437	Ant1	-53.83	-20	Pass
NVNT	b	2462	Ant1	-52.39	-20	Pass
NVNT	g	2412	Ant1	-46.09	-20	Pass
NVNT	g	2437	Ant1	-46.64	-20	Pass
NVNT	g	2462	Ant1	-46.33	-20	Pass
NVNT	n20	2412	Ant1	-45.4	-20	Pass
NVNT	n20	2437	Ant1	-45.08	-20	Pass
NVNT	n20	2462	Ant1	-45.34	-20	Pass
NVNT	n40	2422	Ant1	-43.17	-20	Pass
NVNT	n40	2437	Ant1	-43.23	-20	Pass
NVNT	n40	2452	Ant1	-42.74	-20	Pass

Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.412 3 GHz	3.410 dBm			
2	N	1	f	25.826 8 GHz	-43.961 dBm			
3	N	1	f	4.823 7 GHz	-54.599 dBm			
4	N	1	f	7.431 9 GHz	-56.212 dBm			
5	N	1	f	9.493 9 GHz	-55.372 dBm			
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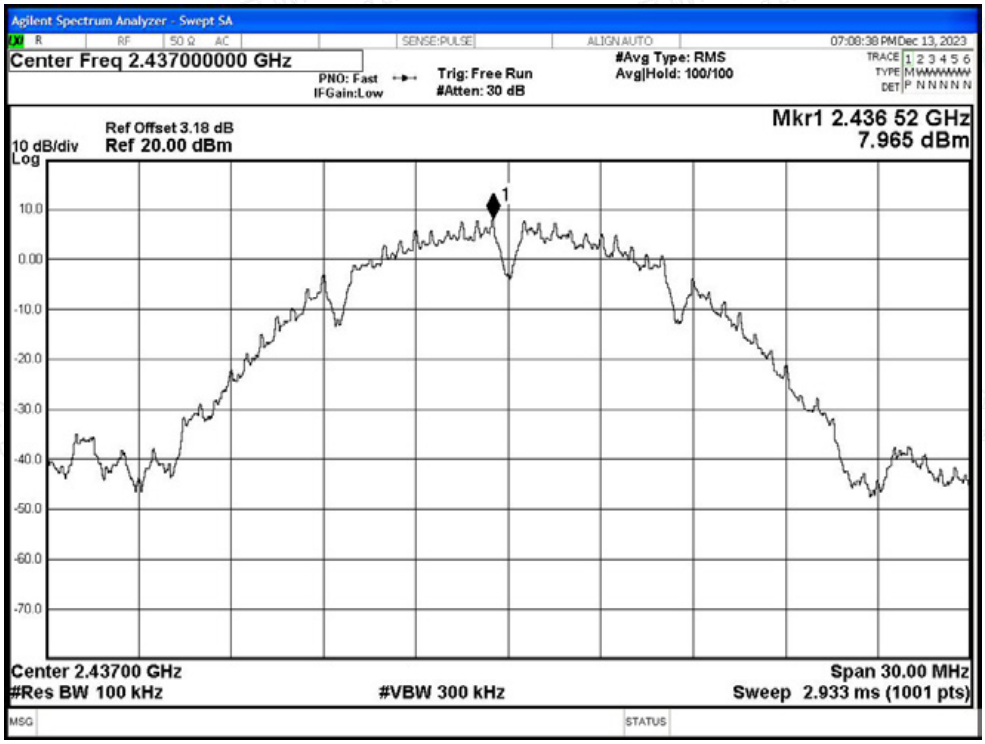
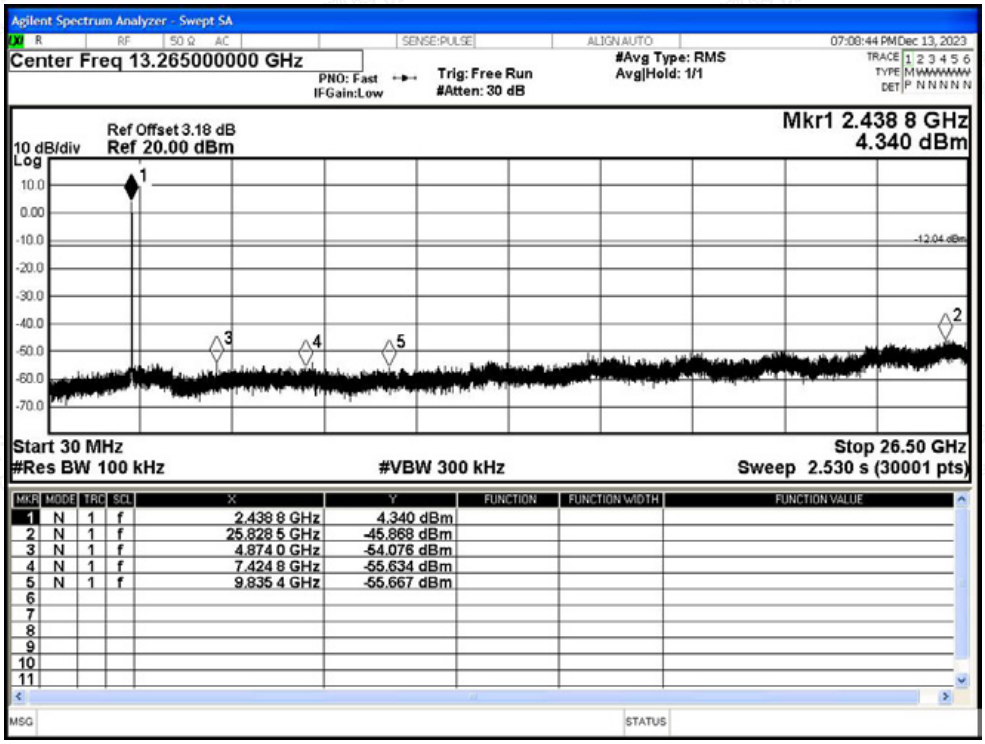
Tx. Spurious NVNT b 2437MHz Ant1 Ref



Tx. Spurious NVNT b 2437MHz Ant1 Emission



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.438 8 GHz	4.340 dBm			
2	N	1	f	25.828 5 GHz	-45.868 dBm			
3	N	1	f	4.874 0 GHz	-54.076 dBm			
4	N	1	f	7.424 8 GHz	-55.634 dBm			
5	N	1	f	9.835 4 GHz	-55.667 dBm			
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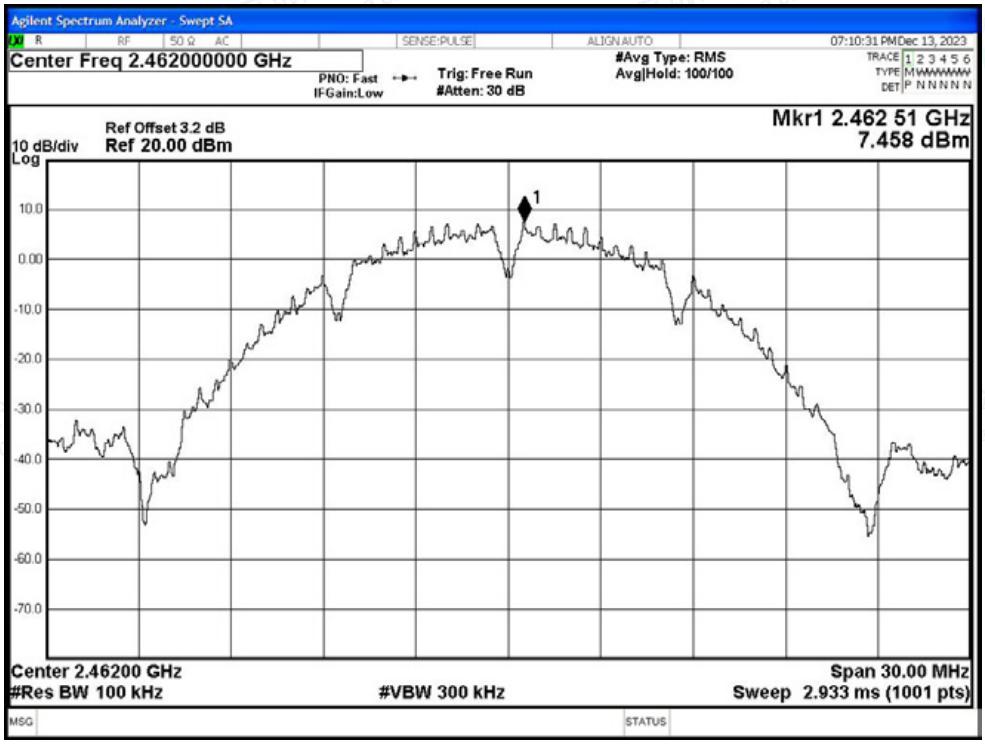
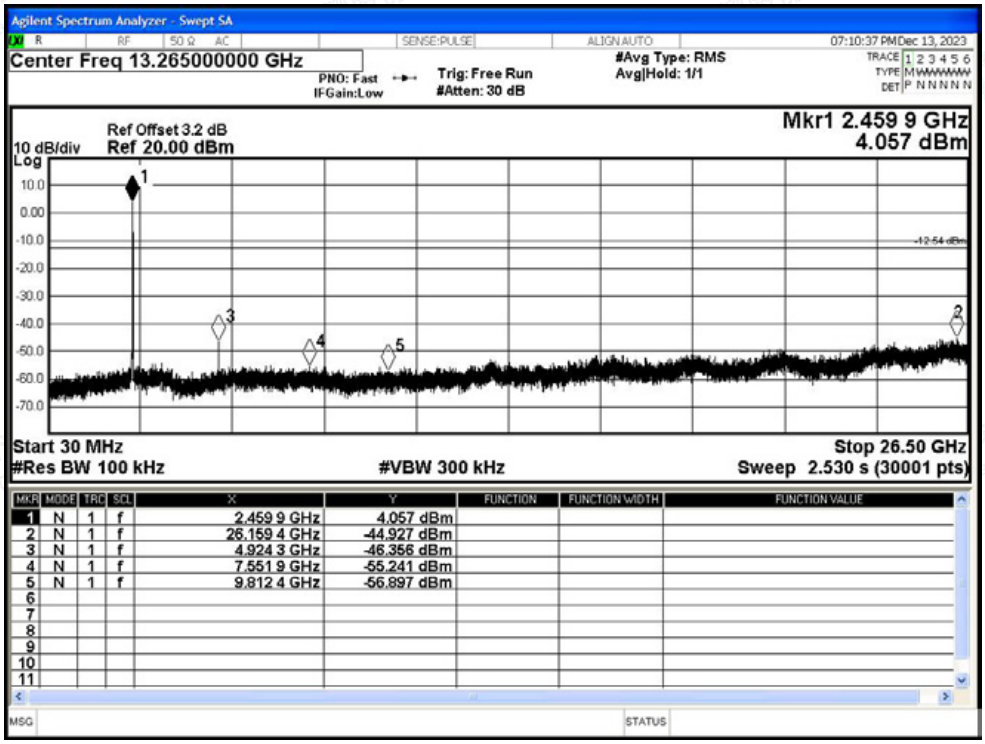
Tx. Spurious NVNT b 2462MHz Ant1 Ref



Tx. Spurious NVNT b 2462MHz Ant1 Emission



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.459 9 GHz	4.057 dBm			
2	N	1	f	26.159 4 GHz	-44.927 dBm			
3	N	1	f	4.924 3 GHz	-46.356 dBm			
4	N	1	f	7.551 9 GHz	-55.241 dBm			
5	N	1	f	9.812 4 GHz	-56.897 dBm			
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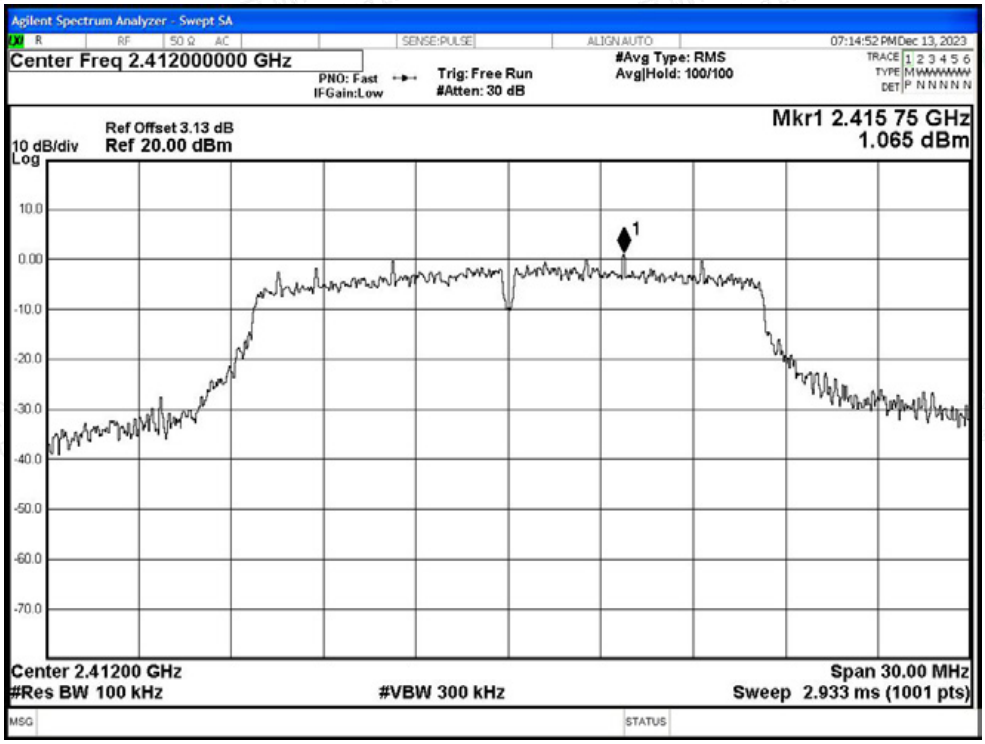
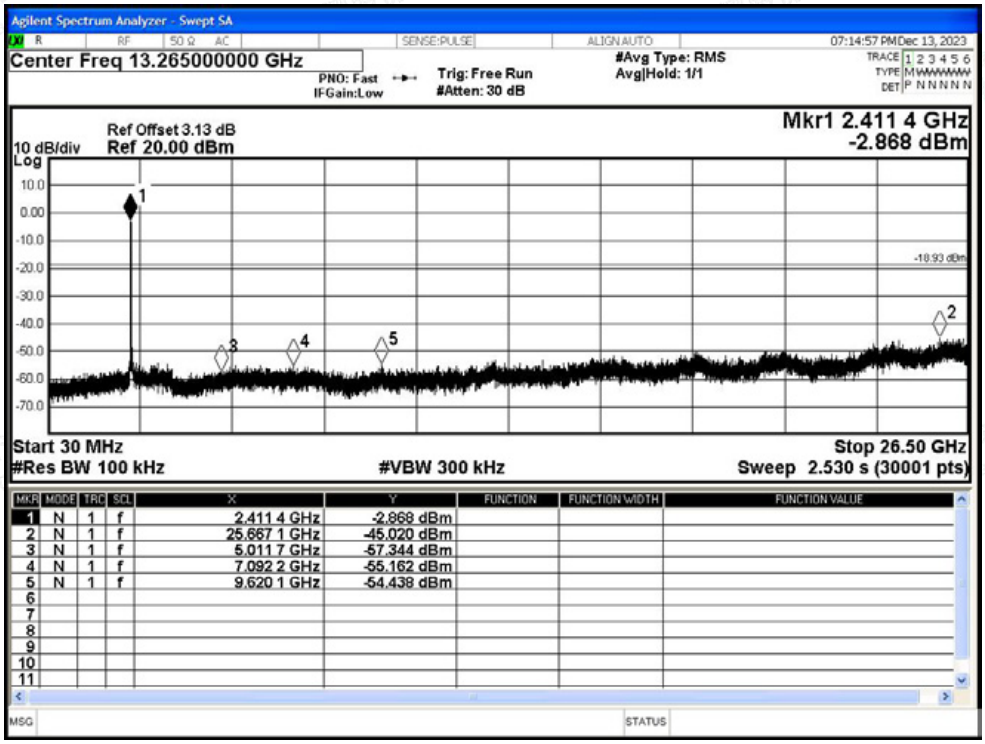
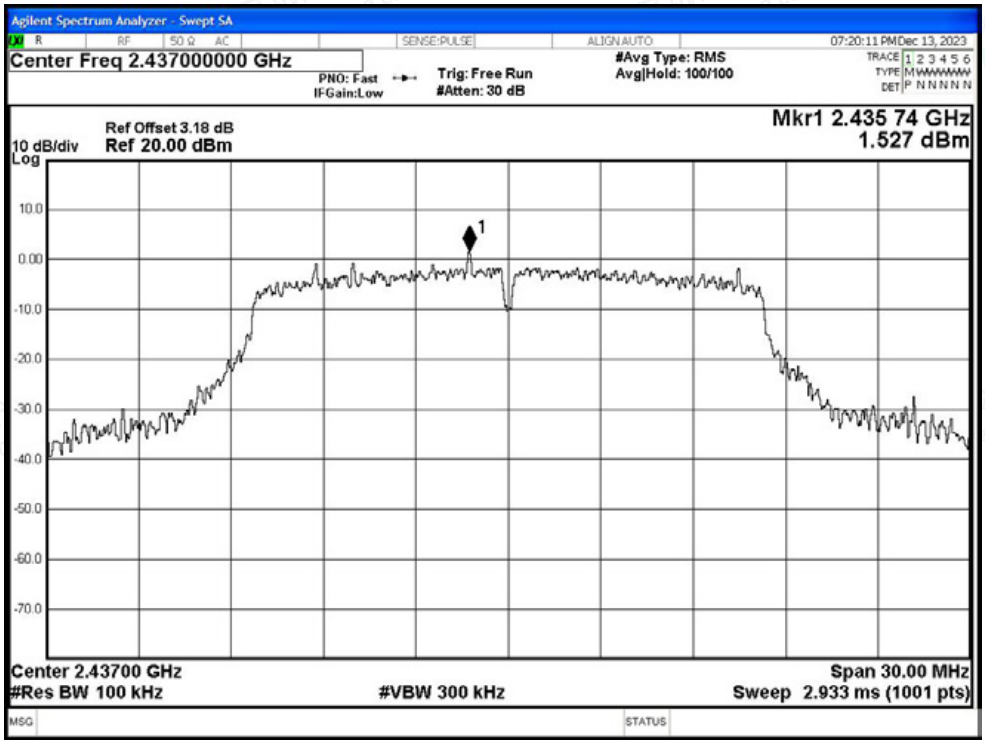
Tx. Spurious NVNT g 2412MHz Ant1 Ref



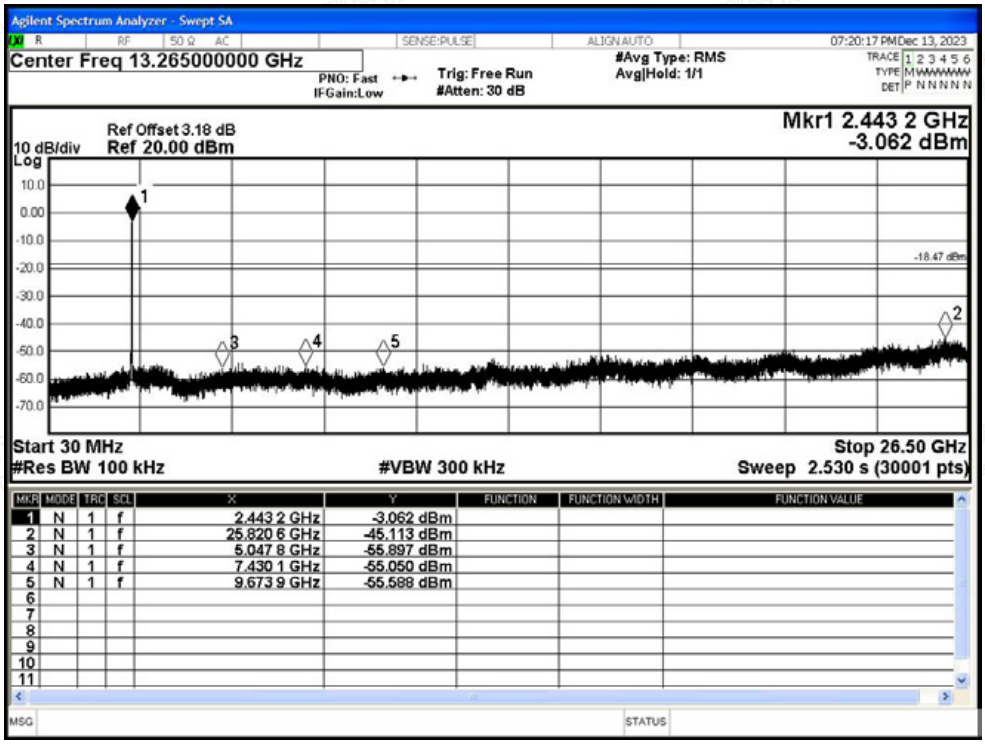
Tx. Spurious NVNT g 2412MHz Ant1 Emission



Tx. Spurious NVNT g 2437MHz Ant1 Ref



Tx. Spurious NVNT g 2437MHz Ant1 Emission



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.443 2 GHz	-3.062 dBm			
2	N	1	f	25.820 6 GHz	-45.113 dBm			
3	N	1	f	5.047 8 GHz	-55.897 dBm			
4	N	1	f	7.430 1 GHz	-55.050 dBm			
5	N	1	f	9.673 9 GHz	-55.588 dBm			
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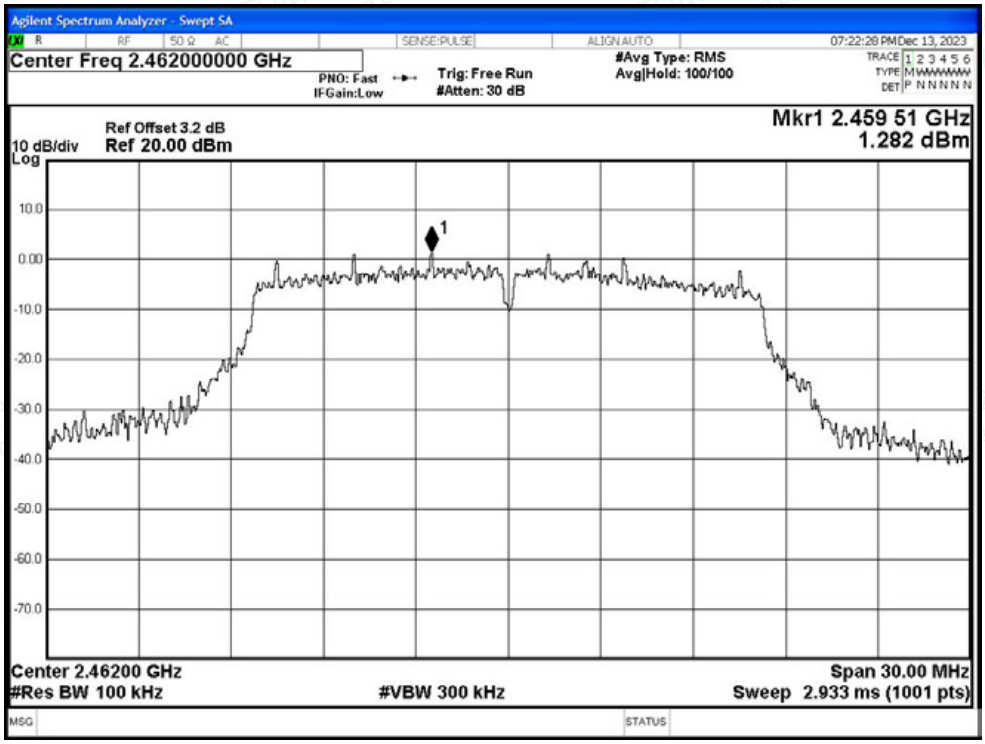
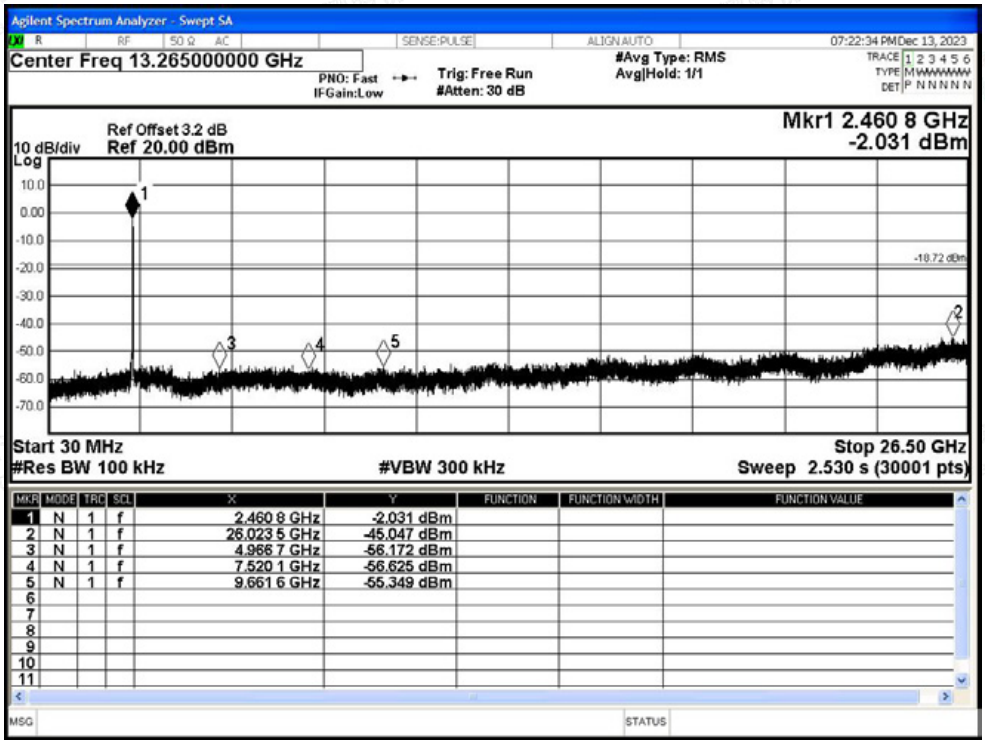
Tx. Spurious NVNT g 2462MHz Ant1 Ref



Tx. Spurious NVNT g 2462MHz Ant1 Emission



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.460 8 GHz	-2.031 dBm			
2	N	1	f	26.023 5 GHz	-45.047 dBm			
3	N	1	f	4.966 7 GHz	-56.172 dBm			
4	N	1	f	7.520 1 GHz	-56.625 dBm			
5	N	1	f	9.661 6 GHz	-55.349 dBm			
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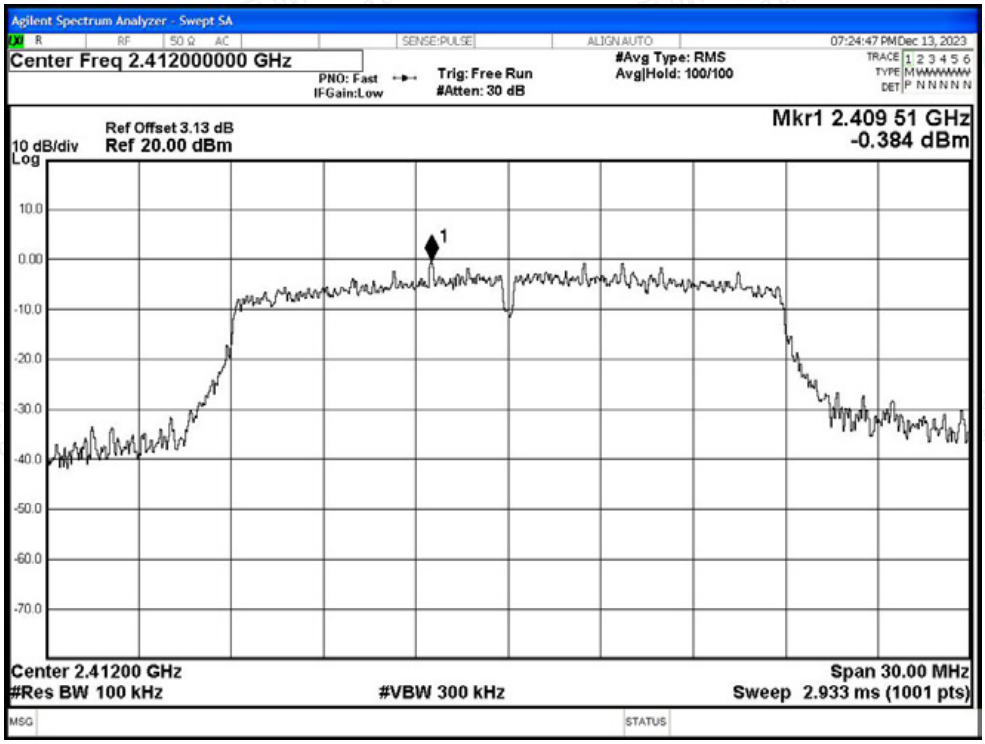
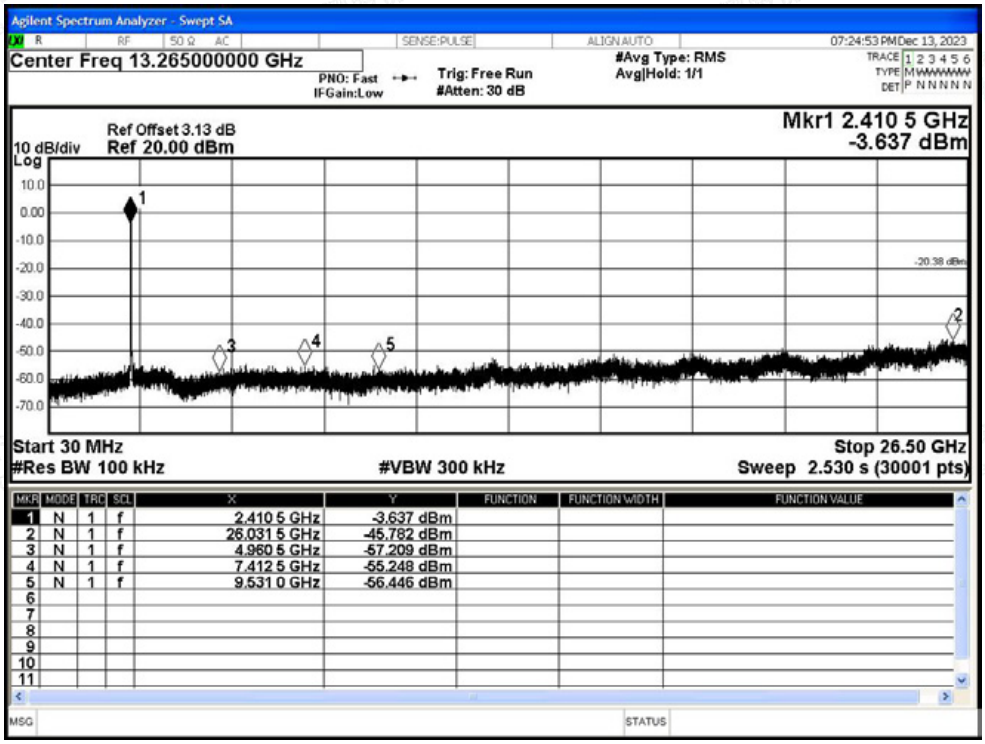
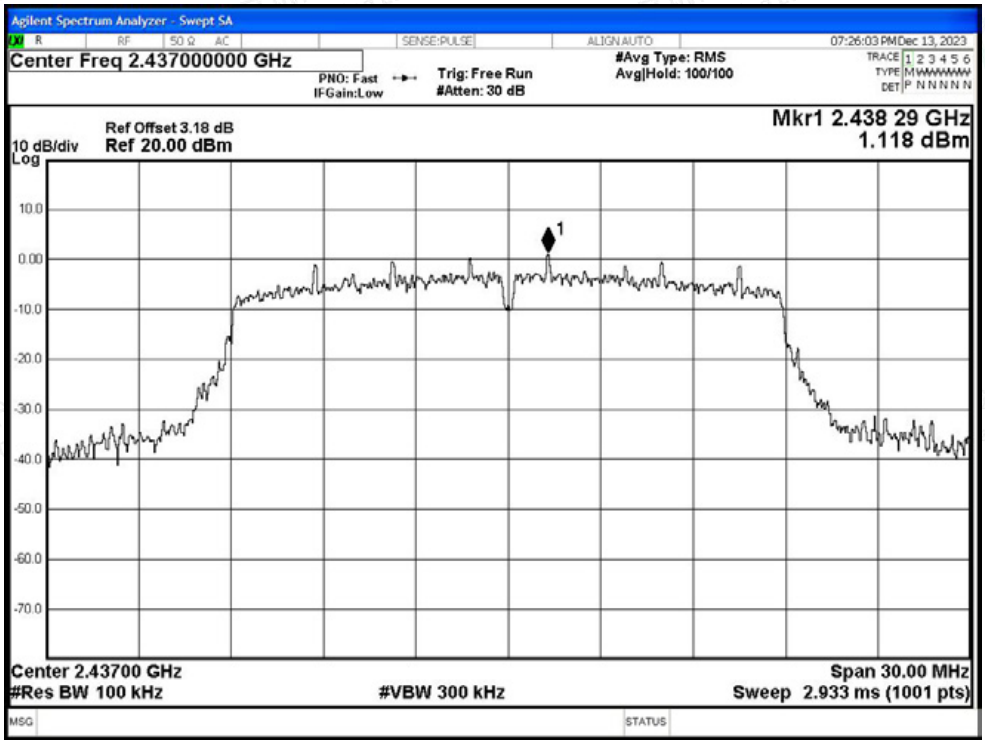
Tx. Spurious NVNT n20 2412MHz Ant1 Ref



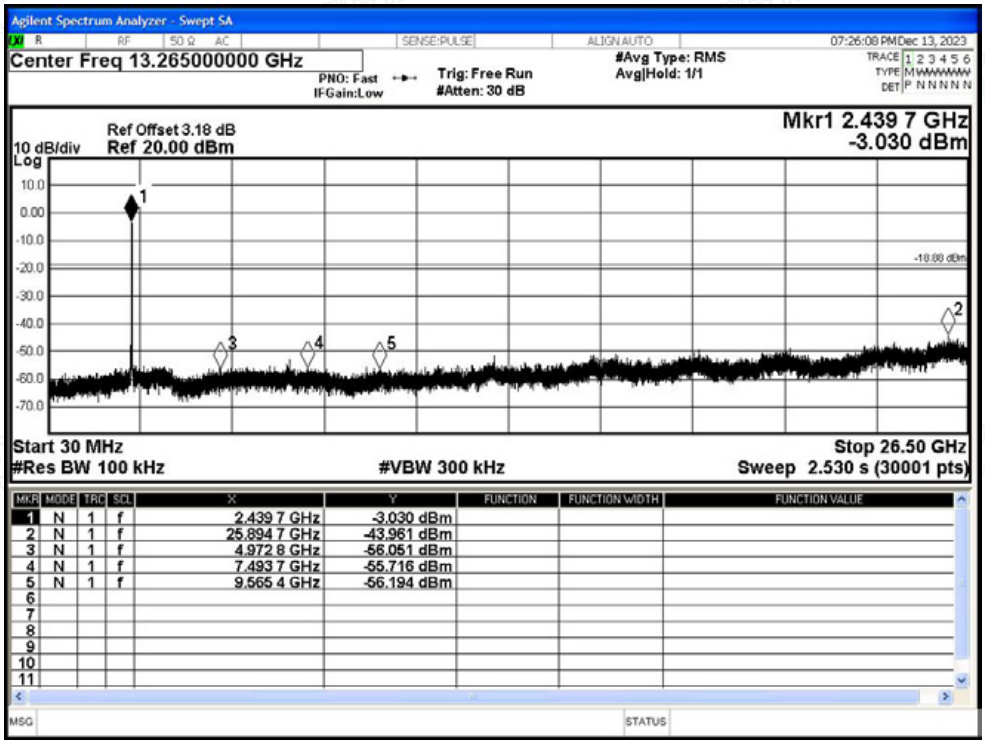
Tx. Spurious NVNT n20 2412MHz Ant1 Emission



Tx. Spurious NVNT n20 2437MHz Ant1 Ref



Tx. Spurious NVNT n20 2437MHz Ant1 Emission



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.439 7 GHz	-3.030 dBm			
2	N	1	f	25.894 7 GHz	-43.961 dBm			
3	N	1	f	4.972 8 GHz	-56.051 dBm			
4	N	1	f	7.493 7 GHz	-65.716 dBm			
5	N	1	f	9.565 4 GHz	-56.194 dBm			
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