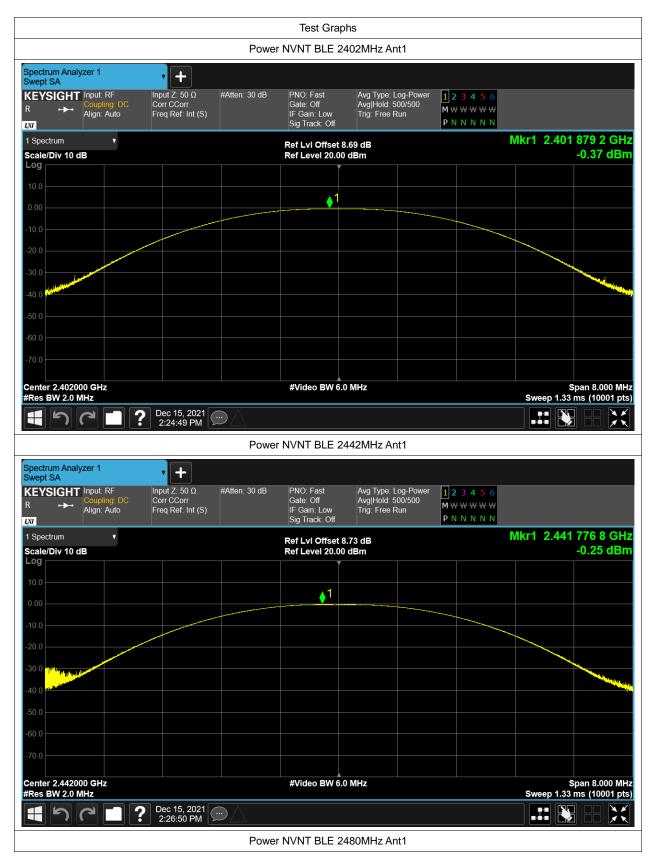
Test Data

Maximum Conducted Output Power

Condition	Mode	Frequency	Antenna	Conducted Power	Duty Factor	Total Power	Limit	Verdict
		(MHz)		(dBm)	(dB)	(dBm)	(dBm)	
NVNT	BLE	2402	Ant1	-0.366	0	-0.366	30	Pass
NVNT	BLE	2442	Ant1	-0.246	0	-0.246	30	Pass
NVNT	BLE	2480	Ant1	-1.468	0	-1.468	30	Pass











-6dB Bandwidth

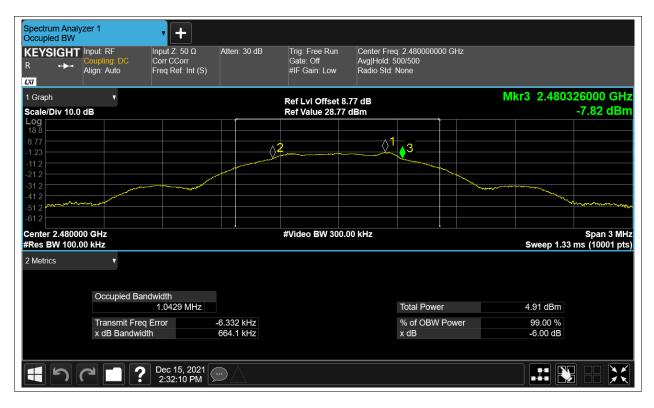
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE	2402	Ant1	0.669	0.5	Pass
NVNT	BLE	2442	Ant1	0.666	0.5	Pass
NVNT	BLE	2480	Ant1	0.664	0.5	Pass





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Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE	2402	Ant1	1.034235855
NVNT	BLE	2442	Ant1	1.036455296
NVNT	BLE	2480	Ant1	1.038535349





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Spectr Occup	um Analy ied BW	/zer 1		•+	•										
REY:	SIGHT +►+	Input: Coupli Align:	ing: DC	Input Z: 50 Corr CCor Freq Ref:		Atten: 30 dB		Trig: Free Run Gate: Off #IF Gain: Low		Center Freq Avg Hold: 1 Radio Std: 1	00/100	100 GH	Ηz		
1 Grap	h		•					Ref Lvl Offset	8.77	/ dB					
	Div 10.0	dB						Ref Value 28.7	77 dE	3m					
Log 18.8															
8.77															
-1.23															
-11.2							\sim	\sim	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					
-21.2						~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	-					\			
-31.2					and the second								m ~~		
-41.2			- And and a second		\sim								Jan -	Mar and	
-51.2	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	m	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~												v www.
	r 2.48000 BW 30.00							#Video BW 10	0.00	kHz				C	Span 3 MHz
		JU KHZ												Sweep 3.33	ms (10001 pts)
2 Metr	ics		T												
		0	ounied Den	du ui ditla											
		00	cupied Ban	awiain 1.0385	MHz						Total Powe	er		4.56 dBm	
		T									% of OBW				
			ansmit Freq B Bandwidt			3.506 kHz .268 MHz					% of OBW	/ Pow	/er	99.00 % -26.00 dB	
		× 0			1.	200 1011 12					x ub			-20.00 uD	
	5	2	2	Dec 15, 2:32:00	2021 PM										



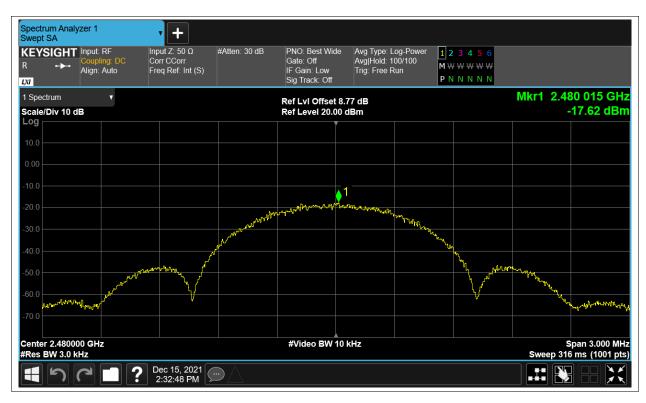
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	Ant1	-16.556	8	Pass
NVNT	BLE	2442	Ant1	-15.975	8	Pass
NVNT	BLE	2480	Ant1	-17.621	8	Pass











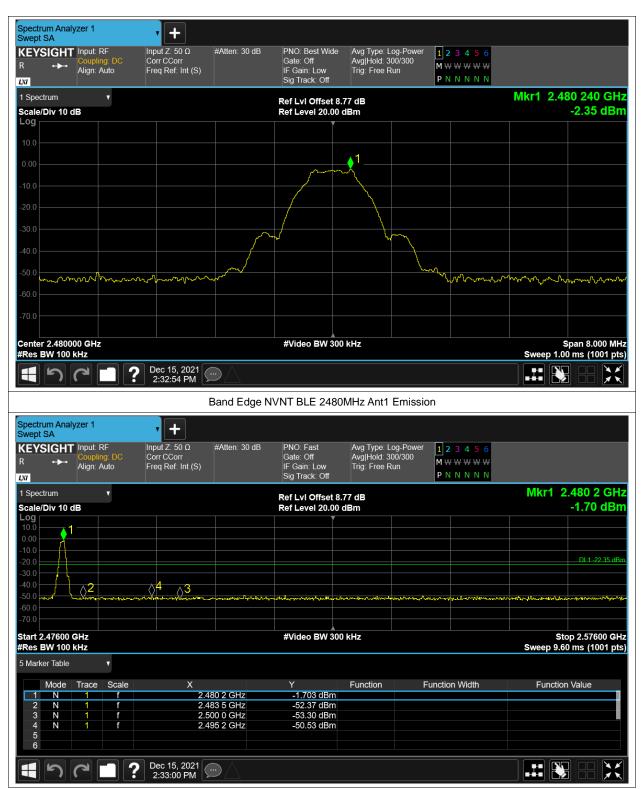
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	Ant1	-49.12	-20	Pass
NVNT	BLE	2480	Ant1	-48.17	-20	Pass



				Test Graph	าร		
			Band Edge	NVNT BLE 24	102MHz Ant1 Re	f	
Spectrum Analyzer	1	• +					
KEYSIGHT Inpu	pling: DC C	nput Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Log-Powe Avg Hold: 300/300 Trig: Free Run	f 123456 M₩₩₩₩₩₩ PNNNNN	
1 Spectrum	•			Ref LvI Offset 8.	69 dB		Mkr1 2.401 992 GHz
Scale/Div 10 dB				Ref Level 20.00			-1.09 dBm
10.0							
0.00				1			
-10.0					\sim		
-20.0							
-30.0			\square	~~ ¹			
-40.0			m			$\lambda_{n}\Lambda_{n}$	
-50.0 mm mm	Mr. Marine Marine	v. m.					Mar My Mar Mary
-60.0							
-70.0							
Center 2.402000 Gi #Res BW 100 kHz	Hz			#Video BW 300) kHz		Span 8.000 MHz Sweep 1.00 ms (1001 pts)
	2	Dec 15, 2021 🦳					
		2:25:48 PM 🛛					
		I	Band Edge N	VNT BLE 2402	MHz Ant1 Emiss	ion	
Spectrum Analyzer Swept SA	1		Band Edge N	VNT BLE 2402	MHz Ant1 Emiss	ion	
Swept SA KEYSIGHT Inpu	ıt: RF lı pling: DC C	T nput Z: 50 Ω Corr CCorr	Band Edge N #Atten: 30 dB	PNO: Fast Gate: Off	Avg Type: Log-Powe Avg Hold: 300/300	r <u>123456</u>	
Swept SA KEYSIGHT Inpu	ıt: RF lı pling: DC C	τ nput Z: 50 Ω		PNO: Fast	Avg Type: Log-Powe		
Swept SA KEYSIGHT R I Spectrum	ıt: RF lı pling: DC C	T nput Z: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 8.	Avg Type: Log-Powe Avg]Hold: 300/300 Trig: Free Run 69 dB	f 123456 M₩₩₩₩₩₩	Mkr1 2.402 2 GHz
Swept SA KEYSIGHT R ↔ Cou Aligr LV 1 Spectrum Scale/Div 10 dB Log	t: RF II pling: DC C n: Auto F	T nput Z: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Log-Powe Avg]Hold: 300/300 Trig: Free Run 69 dB	f 123456 M₩₩₩₩₩₩	Mkr1 2.402 2 GHz -0.56 dBm
Swept SA KEYSIGHT R ↔ Cou Aligr UV 1 Spectrum Scale/Div 10 dB Log 10.0 0.00	t: RF II pling: DC C n: Auto F	T nput Z: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 8.	Avg Type: Log-Powe Avg]Hold: 300/300 Trig: Free Run 69 dB	f 123456 M₩₩₩₩₩₩	
Swept SA KEYSIGHT R →→ Cou Cou Align UV 1 Spectrum Scale/Div 10 dB Log 10.0	t: RF II pling: DC C n: Auto F	T nput Z: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 8.	Avg Type: Log-Powe Avg]Hold: 300/300 Trig: Free Run 69 dB	f 123456 M₩₩₩₩₩₩	
Swept SA KEYSIGHT R ↔ Cou Aligr 1 Spectrum Scale/Div 10 dB Log 10.0 0.00 -10.0	t: RF II pling: DC C n: Auto F	T nput Z: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 8.	Avg Type: Log-Powe Avg]Hold: 300/300 Trig: Free Run 69 dB	f 123456 M₩₩₩₩₩₩	-0.56 dBm
Swept SA Input KEYSIGHT Input R → Aigt LV/ 1 Spectrum Scale/Div 10 dB 0.00 0.00 -10.0	t: RF II pling: DC C n: Auto F	T nput Z: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 8.	Avg Type: Log-Powe Avg]Hold: 300/300 Trig: Free Run 69 dB	f 123456 M₩₩₩₩₩₩	-0.56 dBm
Swept SA Input KEYSIGHT Input R →→ Align LV/ 1 Spectrum Scale/Div 10 dB Log 0.00 0.00 -20.0	t: RF II pling: DC C n: Auto F	T nput Z: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 8. Ref Level 20.00	Avg Type: Log-Powe Avg Hold: 300/300 Trig: Free Run 69 dB dBm	f 123456 M₩₩₩₩₩₩	-0.56 dBm
Swept SA Input Court R → Align LV/ 1 Spectrum Scale/Div 10 dB 0 10.0 0 -10.0 - -20.0 - -40.0 - -60.0 -	t: RF II pling: DC C n: Auto F	T nput Z: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 8.	Avg Type: Log-Powe Avg Hold: 300/300 Trig: Free Run 69 dB dBm	f 123456 M₩₩₩₩₩₩	-0.56 dBm
Swept SA Input Cource R → Align LV/ 1 Spectrum Scale/Div 10 dB Log 10.0 0.00 -10.0 - - -30.0 - - -40.0 - - -50.0 - - -70.0 - - Start 2.30600 GHz - -	t: RF II pling: DC C n: Auto F	T nput Z: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 8. Ref Level 20.00	Avg Type: Log-Powe Avg Hold: 300/300 Trig: Free Run 69 dB dBm	f 123456 M₩₩₩₩₩₩	-0.56 dBm
Swept SA Input Court R →→ Court 1 Spectrum Scale/Div 10 dB Court Scale/Div 10 dB 0.00 0.00 10.0 0.00 0.00 -20.0 0.00 0.00 -30.0 0.00 0.00 -50.0 0.00 0.00 -50.0 0.00 0.00 -70.0 0.00 0.00 Start 2.306000 GHz #Res BW 100 kHz 5 Marker Table Mode Trac	t: RF II pling: DC C r: Auto F	T + nput Z: 50 Ω corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref Level 20.000 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Avg Type: Log-Powe Avg Hold: 300/300 Trig: Free Run 69 dB dBm	f 123456 M₩₩₩₩₩₩	-0.56 dBm
Swept SA KEYSIGHT Input Cource R → Aigt J Spectrum Scale/Div 10 dB Output Scale/Div 10 dB Output Output 10.0 Output Output -0.0 Output Output -0.0	t: RF In ping. DC C n: Auto F V V xe Scale f	T + nput Z: 50 Ω corr CCorr req Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 8. Ref Level 20.00 4 4 #Video BW 300 Y -0.5568 dBm -53.09 dBm	Avg Type: Log-Powe Avg Hold: 300/300 Trig: Free Run 69 dB dBm	r 1 2 3 4 5 6 M W W W W W P N N N N N 	-0.56 dBm
Swept SA Input Court R → Align LV7 1 Spectrum Scale/Div 10 dB Log 0 0 10.0 0 0 -200 - - -30.0 - - -40.0 - - -50.0 - - -70.0 - - Start 2.306000 GHz - - #Res BW 100 kHz 5 Marker Table - 1 N 1 3 N 1 4 N 1	t: RF II pling: DC C n: Auto F V V v v v v v v v v v v v v v v v v v	T + nput Z: 50 Ω corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 8. Ref Level 20.00 0 4 4 #Video BW 300 Y -0.5568 dBm	Avg Type: Log-Powe Avg Hold: 300/300 Trig: Free Run 69 dB dBm	r 1 2 3 4 5 6 M W W W W W P N N N N N 	-0.56 dBm
Swept SA Input Courtication KEYSIGHT R Input Courtication 1 Spectrum Scale/Div 10 dB Log 0 10.0 0 -20.0 0 -30.0 0 -40.0 0 -70.0 0 Start 2.30600 GHz HRes BW 100 kHz 5 Marker Table Mode Tract 1 N 1 3 N 1	t: RF II pling: DC CC r: Auto F V V V E Scale f f	T + nput Z: 50 Ω corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 8. Ref Level 20.00 #Video BW 300 Y -0.5568 dBm -53.09 dBm -52.36 dBm	Avg Type: Log-Powe Avg Hold: 300/300 Trig: Free Run 69 dB dBm	r 1 2 3 4 5 6 M W W W W W P N N N N N 	-0.56 dBm
Swept SA KEYSIGHT Input R → Courting I Spectrum Scale/Div 10 dB Out Scale/Div 10 dB Out Out 100 Out Out Out 200 Out Out Out Out 200 Out <	t: RF II pling: DC C n: Auto F V V Exe Scale f f f f f f		#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 8. Ref Level 20.00 #Video BW 300 Y -0.5568 dBm -53.09 dBm -52.36 dBm	Avg Type: Log-Powe Avg Hold: 300/300 Trig: Free Run 69 dB dBm	r 1 2 3 4 5 6 M W W W W W P N N N N N 	-0.56 dBm







Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	Ant1	-43.52	-20	Pass
NVNT	BLE	2442	Ant1	-43.75	-20	Pass
NVNT	BLE	2480	Ant1	-42.29	-20	Pass







