

#### Test Data

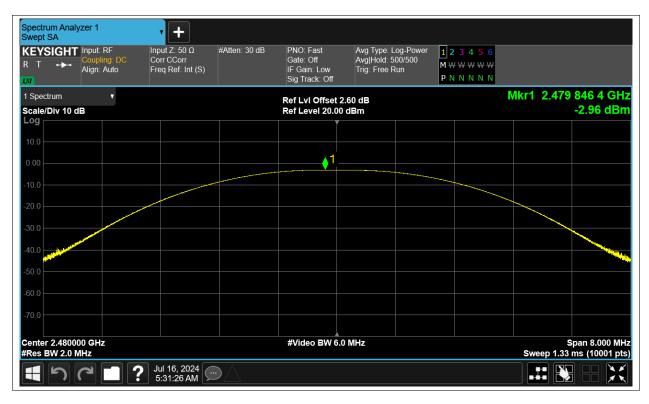
# **Maximum Conducted Output Power**

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	ANT14	-3.348	30	Pass
NVNT	BLE	2442	ANT14	-2.485	30	Pass
NVNT	BLE	2480	ANT14	-2.963	30	Pass



			Test Gra	iphs				
		Power	NVNT BLE 24	402MHz AN	Г14			
Spectrum Analyzer 1 Swept SA	• +							
KEYSIGHT Input: RF R T ↔ Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: L Avg Hold: 5 Trig: Free R	00/500 M ₩	2 3 4 5 6 7 W W W W I N N N N		
1 Spectrum v			Ref LvI Offset			l	Mkr1 2.402	015 2 GHz
Scale/Div 10 dB Log			Ref Level 20.0	00 dBm				-3.35 dBm
10.0								
0.00				1				
-10.0								
-20.0								
-30.0								
-40.0								and the second division of the second divisio
-50.0								
-60.0								
-70.0								
Center 2.402000 GHz			#Video BW 6	i.0 MHz			5	Span 8.000 MHz
#Res BW 2.0 MHz							Sweep 1.33	ms (10001 pts)
	<b>?</b> Jul 16, 2024 5:26:56 AM	$\mathbf{O}$						
		Power	NVNT BLE 24	442MHz AN <sup>-</sup>	Г14			
Spectrum Analyzer 1	• +	Power	NVNT BLE 24	442MHz AN⁻	Г14			
Swept SA	Input Z: 50 Ω	Power #Atten: 30 dB	PNO: Fast	Avg Type: L	.og-Power 12	2 3 4 5 6		
Swept SA KEYSIGHT R T +>+ Coupling: DC Align: Auto			PNO: Fast Gate: Off IF Gain: Low		.og-Power <u>1</u> 2 00/500 M ₩	/₩₩₩₩		
Swept SA KEYSIGHT Input: RF P T Coupling: DC	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: L Avg Hold: 5 Trig: Free R	.og-Power <u>1</u> 2 00/500 M ₩	/ w w w w I N N N N		075 2 GHz
Swept SA KEYSIGHT R T ++ Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low	Avg Type: L Avg Hold: 5 Trig: Free R : 2.58 dB	.og-Power <u>1</u> 2 00/500 M ₩	/ w w w w I N N N N		2 075 2 GHz -2.49 dBm
Swept SA KEYSIGHT R T  Coupling: DC Align: Auto 1 Spectrum Scale/Div 10 dB	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset	Avg Type: L Avg Hold: 5 Trig: Free R : 2.58 dB	.og-Power <u>1</u> 2 00/500 M ₩	/ w w w w I N N N N		
Swept SA KEYSIGHT R T  Align: Auto I Spectrum Scale/Div 10 dB Log	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset	Avg Type: L Avg Hold: 5 Trig: Free R : 2.58 dB	.og-Power <u>1</u> 2 00/500 M ₩	/ w w w w I N N N N		
Swept SA KEYSIGHT Input: RF: R T  Ispectrum Scale/Div 10 dB	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset	Avg Type: L Avg Hold: 5 Trig: Free R : 2.58 dB 00 dBm	.og-Power <u>1</u> 2 00/500 M ₩	/ w w w w I N N N N		
Swept SA KEYSIGHT Input: RF R T  ISpectrum Scale/Div 10 dB O O O O O O O O O O O O O O O O O O O	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset	Avg Type: L Avg Hold: 5 Trig: Free R : 2.58 dB 00 dBm	.og-Power <u>1</u> 2 00/500 M ₩	/ w w w w I N N N N		
Swept SA           KEYSIGHT         Input: RF:           R         T         →         Auto           I Spectrum         ▼         Scale/Div 10 dB         ■           Log         ■         ■         ■         ■           10.0         ■	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset	Avg Type: L Avg Hold: 5 Trig: Free R : 2.58 dB 00 dBm	.og-Power <u>1</u> 2 00/500 M ₩	/ w w w w I N N N N		
Swept SA KEYSIGHT Input: RF R T  ISpectrum Scale/Div 10 dB Cog 10.0 0.00 -10.0 -20.0 -30.0	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset	Avg Type: L Avg Hold: 5 Trig: Free R : 2.58 dB 00 dBm	.og-Power <u>1</u> 2 00/500 M ₩	/ w w w w I N N N N		
Swept SA           KEYSIGHT         Input: RF           R         T         →         Auto           I Spectrum         ▼         Scale/Div 10 dB         ■           Log         ■         ■         ■         ■           10.0         ■	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset	Avg Type: L Avg Hold: 5 Trig: Free R : 2.58 dB 00 dBm	.og-Power <u>1</u> 2 00/500 M ₩	/ w w w w I N N N N		
Swept SA KEYSIGHT Input: RF R T  ISpectrum Scale/Div 10 dB Cog 10.0 0.00 -10.0 -20.0 -30.0	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset	Avg Type: L Avg Hold: 5 Trig: Free R : 2.58 dB 00 dBm	.og-Power <u>1</u> 2 00/500 M ₩	/ w w w w I N N N N		
Swept SA           KEYSIGHT         Input: RF           R         T         →         Auto           I Spectrum         ▼         Scale/Div 10 dB         ■           Log         ■         ■         ■         ■           10.0         ■	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset	Avg Type: L Avg Hold: 5 Trig: Free R : 2.58 dB 00 dBm	.og-Power <u>1</u> 2 00/500 M ₩	/ w w w w I N N N N		
Swept SA           KEYSIGHT         Input: RF           R         T         Coupling: DC Align: Auto           I         Spectrum         V           Scale/Div 10 dB         0         0           10.0         0         0           -10.0         0         0           -20.0         0         0           -30.0         0         0           -40.0         0         0         0	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset	Avg Type: L Avg Hold: 5 Trig: Free R : 2.58 dB 00 dBm	.og-Power <u>1</u> 2 00/500 M ₩	/ w w w w I N N N N		
Swept SA           KEYSIGHT         Input: RF           R         T         T           I Spectrum         V           Scale/Div 10 dB         O           Log         Imput: RF           10.0         Imput: RF           Scale/Div 10 dB         Imput: RF           Log         Imput: RF           Imput: RF         Imput: RF           Scale/Div 10 dB         Imput: RF           Log         Imput: RF           Imput: RF         Imput: RF           Scale/Div 10 dB         Imput: RF           Log         Imput: RF           Imput: RF         Imput: RF           Scale/Div 10 dB         Imput: RF           Log         Imput: RF           Imput: RF         Imput: RF           Log         Imput: RF           Imput: RF         Imput: RF           Log         Imput: RF           Imput: RF         Imput: RF           Imput: RF         Imput: RF           Log         Imput: RF           Imput: RF         Imput: RF           Imput: RF         Imput: RF           Imput: RF         Imput: RF           Imput: RF          Imp	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset	Avg Type: L Avg Hold: 5 Trig: Free R 2.58 dB 00 dBm	.og-Power <u>1</u> 2 00/500 M ₩	/ w w w w I N N N N	Mkr1 2.442	-2.49 dBm
Swept SA         KEYSIGHT       Input: RF         R       T         1 Spectrum       V         Scale/Div 10 dB         Log	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref Level 20.0	Avg Type: L Avg Hold: 5 Trig: Free R 2.58 dB 00 dBm	.og-Power <u>1</u> 2 00/500 M ₩	/ w w w w I N N N N	Mkr1 2.442	
Swept SA         KEYSIGHT       Input: RF         R       T         1 Spectrum       V         Scale/Div 10 dB         Log	Input Ζ: 50 Ω Corr CCorr	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref Level 20.0	Avg Type: L Avg Hold: 5 Trig: Free R 2.58 dB 00 dBm 1 1 	og-Power 1 2 00/500 M ¥ P №	/ w w w w I N N N N	Mkr1 2.442	-2.49 dBm







#### -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	limit	Verdic
NVNT	BLE	2402	ANT14	0.686	0.5	Pass
NVNT	BLE	2442	ANT14	0.69	0.5	Pass
NVNT	BLE	2480	ANT14	0.695	0.5	Pass







Spectru Occupi	ım Anal <u>y</u> ed BW	yzer 1		• +							
KEYS R T	SIGHT ⊶⊷	Input: R Coupling Align: A	g: DC	Input Z: 50 Corr CCorr Freq Ref: I		B Trig: Free Rur Gate: Off #IF Gain: Low	Avg Hold:				
1 Graph	ı		•			Ref LvI Offse	t 2.60 dB		Mkr		2000 GHz
	Div 10.0	dB				Ref Value 22.	60 dBm			-1	0.00 dBm
Log 12.6											
2.60							<u> </u>	3			
-7.40											
-17.4											
-37.4			- Andrew - A								· · · · · · · · · · · · · · · · · · ·
-47.4											
-57.4 -67.4											
	2.4800					#Video BW 30					Span 2 MHz
	2.4800 W 100.					#video Bw 30	JU.UU KHZ			Sweep 1.33 n	span 2 MHz ns (10001 pts)
2 Metric			v								
		Occ	upied Bar	ndwidth 1.0499 N				Total Power		3.15 dBm	
		Tree	nsmit Fred		3.822 kHz			% of OBW Power		99.00 %	
			Bandwid		695.4 kHz			x dB		-6.00 dB	
	5	<b>7</b>	]?	Jul 16, 20 5:31:57							



## **Occupied Channel Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE	2402	ANT14	1.044
NVNT	BLE	2442	ANT14	1.044
NVNT	BLE	2480	ANT14	1.044







Occi	ctrum A upied B	3W			• +					
KE R	YSIGI ∫ →		Input: F <mark>Couplir</mark> Align: <i>I</i>	ng: DC	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	Atter	n: 30 dB	Trig: Free Run Gate: Off #IF Gain: Low	Avg	ter Freq: 2.48000000 GHz  Hold: 1000/1000 lio Std: None
1 Gr				v				Ref LvI Offset		3
	le/Div 1	10.0 (	dB					Ref Value 22.6	0 dBm	
Log 12.0										
2.6										
-7.4								$\sim\sim\sim$		
-17.4	1						$\sim\sim$	, ~ ~ ~		
-27.4	1					/				
-37.4				$\sim$	-	-				
-47.4				and the second						
-57.4		~~~~	~~~~~							
-67.4										
	ter 2.48							#Video BW 91.	000 kHz	
#Re	s BW 3	80.000	0 kHz							Sweep 3.33 ms (10001 pts)
2 Me	etrics			•						
			Oco	cupied Ban						
					1.0444 MHz					Total Power 3.11 dBm
				nsmit Freq			) kHz			% of OBW Power 99.00 %
			x d	B Bandwidt	h	1.268	MHz			x dB -26.00 dB
	5			2	Jul 16, 2024 5:31:40 AM					



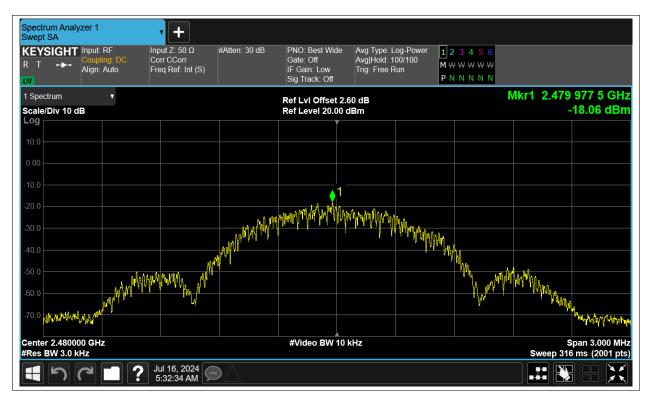
#### **Maximum Power Spectral Density Level**

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	ANT14	-18.465	8	Pass
NVNT	BLE	2442	ANT14	-17.571	8	Pass
NVNT	BLE	2480	ANT14	-18.057	8	Pass











#### **Band Edge**

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	ANT14	-51.78	-20	Pass
NVNT	BLE	2480	ANT14	-52.74	-20	Pass



			Test Grap	hs			
		Band Edge	NVNT BLE 240	02MHz ANT14 Re	ef		
Spectrum Analyzer 1 Swept SA	<b>+</b>						
KEYSIGHT Input: RF R T + Align: Auto	Input 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-Power Avg Hold: 300/300 Trig: Free Run	1 2 3 4 5 6 M₩₩₩₩₩₩ P N N N N N		
1 Spectrum 🔻			Ref LvI Offset 2			Mkr1 2.402	
Scale/Div 10 dB Log			Ref Level 20.00	dBm		-	4.17 dBm
10.0							
0.00			1				
-10.0			$\sim$	~			
-20.0							
-30.0		~~~		1 m			
-40.0							
-50.0		nm		\			
-60.0	ᡔᠯ᠆ᠬᡔᡊᢦ᠆ᠬᠻᠣᠬ᠆ᡀᠬᢩ᠆ᡐᡏᡊᢇᠬ	~			. A BAR AR MARINA	- www.www.	ᠰᢧᠬᢦᢉᢇ᠆ᡗᢑ᠆ᠬ
-70.0							
Center 2.402000 GHz			#Video BW 300	0 kHz		Sn	an 8.000 MHz
#Res BW 100 kHz			#1400 811 000			Sweep 1.00	ms (1001 pts)
	<b>?</b> Jul 16, 2024 5:28:08 AM	$\Box$					
	B	and Edge N	/NT BLE 2402	MHz ANT14 Emiss	sion		
Spectrum Analyzer 1		and Edge N	/NT BLE 2402N	MHz ANT14 Emiss	sion		
Swept SA KEYSIGHT Input: RF	<b>Γ</b>	#Atten: 30 dB	PNO: Fast	Avg Type: Log-Power			
Spectrum Analyzer 1 Swept SA KEYSIGHT R T + Auto	• +		PNO: Fast Gate: Off IF Gain: Low		123456 M₩₩₩₩₩₩		
Swept SA KEYSIGHT R T +++ Coupling DC Align: Auto	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off	Avg Type: Log-Power Avg Hold: 300/300	<b>1</b> 23456	Mirt 2	102 0 CH-
Swept SA       KEYSIGHT       R     T       Align: Auto	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low	Avg Type: Log-Power Avg]Hold: 300/300 Trig: Free Run .56 dB	123456 M₩₩₩₩₩₩		402 0 GHz 4.09 dBm
Swept SA       KEYSIGHT       R T ↔       Lvv       1 Spectrum	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2:	Avg Type: Log-Power Avg]Hold: 300/300 Trig: Free Run .56 dB	123456 M₩₩₩₩₩₩		
Swept SA KEYSIGHT R T I Spectrum Scale/Div 10 dB Log 1.00 0.00 	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2:	Avg Type: Log-Power Avg]Hold: 300/300 Trig: Free Run .56 dB	123456 M₩₩₩₩₩₩		
Swept SA           KEYSIGHT         Input: RF           R         T         →           Ispectrum         ▼           Scale/Div 10 dB         0           0.00         0         0           10.0         0         0           -20.0	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2:	Avg Type: Log-Power Avg]Hold: 300/300 Trig: Free Run .56 dB	123456 M₩₩₩₩₩₩		
Swept SA       KEYSIGHT       R T →       Coupling: DC       Align: Auto       1 Spectrum       Scale/Div 10 dB       Log       10.0	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2 Ref Level 20.00	Avg Type: Log-Power Avg Hold: 300/300 Trig: Free Run .56 dB dBm	123456 M₩₩₩₩₩₩		
Swept SA           KEYSIGHT         Input: RF           R         T         →           1 Spectrum         ▼           Scale/Div 10 dB         ■           10.0         ■         ■           -20.0         ■         ■           -30.0         ■         ■           -40.0         ■         ■	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2 Ref Level 20.00	Avg Type: Log-Power Avg]Hold: 300/300 Trig: Free Run .56 dB	123456 M₩₩₩₩₩₩		
Swept SA           KEYSIGHT           R         T           I         Spectrum           I         Spectrum           Scale/Div 10 dB           Log           10.0           -10.0           -30.0           -40.0	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2 Ref Level 20.00	Avg Type: Log-Power Avg Hold: 300/300 Trig: Free Run .56 dB dBm	123456 M₩₩₩₩₩₩		
Swept SA           KEYSIGHT         Input: RF           R         T         Coupling: DC           I         Spectrum         V           Scale/Div 10 dB         V           I         Spectrum         V           Scale/Div 10 dB         V         Scale/Div           10.0         Imput: RF         Imput: RF           Scale/Div 10 dB         V         Scale/Div           10.0         Imput: RF         Imput: RF           Scale/Div 10 dB         Imput: RF         Imput: RF           10.0         Imput: RF         Imput: RF           20.0         Imput: RF         Imput: RF           30.0         Imput: RF         Imput: RF           40.0         Imput: RF         Imput: RF           30.0         Imput: RF         Imput: RF           30.0         Imput: RF         Imput: RF           40.0         Imput: RF         Imput: RF           30.0         Imput: RF	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2 Ref Level 20.00	Avg Type: Log-Power Avg Hold: 300/300 Trig: Free Run .56 dB dBm 4 4	123456 M₩₩₩₩₩₩	- 	4.09 dBm
Swept SA           KEYSIGHT         Input: RF           R         T         →         Coupling: DC           I         Spectrum         ▼           Scale/Div 10 dB         ▼           I         Spectrum         ▼           Scale/Div 10 dB         ■           200         ■         ■           10.0         ■         ■         ■           20.0         ■         ■         ■           30.0         ■         ■         ■           40.0         ■         ■         ■           50.0         ■         ■         ■           70.0         ■         ■         ■	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2 Ref Level 20.00	Avg Type: Log-Power Avg Hold: 300/300 Trig: Free Run .56 dB dBm 4 4	123456 M₩₩₩₩₩₩	- 	4.09 dBm
Swept SA           KEYSIGHT         Input: RF           R         T         →         Auto           I Spectrum         ▼         Scale/Div 10 dB         ▼           Scale/Div 10 dB         ■         ■         ■         ■           100         ■	Linput 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 2 Ref Level 20.00 #Video BW 300	Avg Type: Log-Power Avg Hold: 300/300 Trig: Free Run .56 dB dBm 4 4 	123456 M₩₩₩₩₩₩	3 Stop	4.09 dBm
Swept SA           KEYSIGHT         Input: RF           R         T         T           I Spectrum         V           Scale/Div 10 dB         V           Scale/Div 10 dB         V           Scale/Div 10 dB         V           30.0	Linput 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 2 Ref Level 20.00 #Video BW 300 #Video BW 300	Avg Type: Log-Power Avg Hold: 300/300 Trig: Free Run .56 dB dBm 4 4 		3 Stop Sweep 9.60	4.09 dBm
Swept SA         Input: RF           R         T         →→         Input: RF           Coupling: DC         Align: Auto           1         Spectrum         ▼           Scale/Div 10 dB         ■           Log         ■           10.0         ■           -10.0         ■           -20.0         ■           -30.0         ■           -40.0         ■           -70.0         ■           Start 2.30600 GHz         ▼           #Res BW 100 kHz         ▼           5 Marker Table         ▼           Mode Trace Scale         1	Linput 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 2 Ref Level 20.00 #Video BW 300 #Video BW 300	Avg Type: Log-Power Avg Hold: 300/300 Trig: Free Run .56 dB dBm 4 4 		3 Stop Sweep 9.60	4.09 dBm
Swept SA           KEYSIGHT         Input: RF           R         T         →         Auto           1 Spectrum         ▼         Scale/Div 10 dB         ✓           Scale/Div 10 dB         ✓         ✓         Scale/Div 10 dB         ✓           20.0         ✓         ✓         ✓         Scale/Div 10 dB         ✓           20.0         ✓         ✓         ✓         ✓         ✓         ✓           30.0         ✓         ✓         ✓         ✓         ✓         ✓         ✓         ✓           Start 2.30600 GHz         #Res BW 100 kHz         ✓         ✓         ✓         ✓         ✓           Mode         Trace         Scale         ✓         ✓         ✓         ✓           Mode         Trace         Scale         ✓         ✓         ✓         ✓	Linput 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 2 Ref Level 20.00 #Video BW 300 #Video BW 300	Avg Type: Log-Power Avg Hold: 300/300 Trig: Free Run .56 dB dBm 4 4 		3 Stop Sweep 9.60	4.09 dBm
Swept SA           KEYSIGHT         Input: RF           R         T         →         Auto           1 Spectrum         v         Scale/Div 10 dB         v           Scale/Div 10 dB         u         u         u           20.0         u         u         u           30.0         u         u         u         u           Start 2.30600 GHz         #Res BW 100 kHz         v         u           5 Marker Table         v         u         f           Mode         Trace         Scale         u           1         f         1         f           3 <n< th="">         1         f         1         f</n<>	Input 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 2 Ref Level 20.00 #Video BW 300 #Video BW 300	Avg Type: Log-Power Avg Hold: 300/300 Trig: Free Run .56 dB dBm 4 4 		→3 Stop Sweep 9.60 r	4.09 dBm
Swept SA           KEYSIGHT         Input: RF           R         T         →         Auto           1 Spectrum         v         Scale/Div 10 dB         v           Scale/Div 10 dB         u         u         u           20.0         u         u         u           30.0         u         u         u         u           Start 2.30600 GHz         #Res BW 100 kHz         v         u           5 Marker Table         v         u         f           Mode         Trace         Scale         u           1         f         1         f           3 <n< th="">         1         f         1         f</n<>	Linput 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 2 Ref Level 20.00 #Video BW 300 Y -4.094 dBm -59.51 dBm -57.80 dBm -55.95 dBm	Avg Type: Log-Power Avg Hold: 300/300 Trig: Free Run .56 dB dBm 4 4 	1       2       3       4       5       6         M       W	3 Stop Sweep 9.60	4.09 dBm







## **Conducted RF Spurious Emission**

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	ANT14	-45.79	-20	Pass
NVNT	BLE	2442	ANT14	-46.44	-20	Pass
NVNT	BLE	2480	ANT14	-46.04	-20	Pass



			Test Graph				
		Tx. Spurious	NVNT BLE 24	02MHz ANT14 Re	ef		
Spectrum Analyzer 1 Swept SA	• +						
KEYSIGHT Input: RF R T ↔ Coupling: DC Align: Auto	Input Z: 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-Power Avg Hold: 300/300 Trig: Free Run	1 2 3 4 5 6 M₩₩₩₩₩₩ P N N N N N		
1 Spectrum v			Ref LvI Offset 2.	56 dB		Mkr1 2.401 99	
Scale/Div 10 dB Log			Ref Level 20.00	dBm		-4.	.30 dBm
10.0							
0.00			1				
-10.0					summer of the second		
-20.0							_
-30.0							- Aller
-40.0							
-50.0							
-60.0							
-70.0							
Center 2.4020000 GHz			#Video BW 300	kH2		Span	1.500 MHz
#Res BW 100 kHz				N112		Sweep 1.00 ms	s (1001 pts)
- C - ?	Jul 16, 2024 5:28:19 AM	$\supset \bigtriangleup$					
	Tu						
	IX	. Spurious in	/NT BLE 2402I	MHz ANT14 Emis	sion		
Spectrum Analyzer 1		. Spunous IN	/NT BLE 2402I	MHz ANT14 Emis	sion		
Swept SA	• +	·					
Spectrum Analyzer 1 Swept SA KEYSIGHT Input: RF R T ++ Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low	MHz ANT14 Emiss Avg Type: Log-Power Avg Hold: 10/10 Trig: Free Run	123456 M₩₩₩₩₩₩₩		
Swept SA KEYSIGHT Input: RF R T + Coupling: DC Align: Auto	<b>Γ</b>	·	PNO: Fast Gate: Off	Avg Type: Log-Power Avg Hold: 10/10	<b>1</b> 23456		
Swept SA KEYSIGHT Input: RF R T  Coupling: DC Align: Auto 1 Spectrum	Input Ζ: 50 Ω Corr CCorr	·	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref Lvl Offset 2.	Avg Type: Log-Power Avg]Hold: 10/10 Trig: Free Run 56 dB	123456 M₩₩₩₩₩₩₩	Mkr1 2.4 -4	
Swept SA KEYSIGHT Input: RF R T  Coupling: DC Align: Auto 1 Spectrum Scale/Div 10 dB Log	Input Ζ: 50 Ω Corr CCorr	·	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Log-Power Avg]Hold: 10/10 Trig: Free Run 56 dB	123456 M₩₩₩₩₩₩₩		402 GHz 34 dBm
Swept SA       KEYSIGHT     Input: RF       R     T       Outping: DC       Align: Auto       I     Spectrum       Scale/Div 10 dB       Log       10.0       0.00	Input Ζ: 50 Ω Corr CCorr	·	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref Lvl Offset 2.	Avg Type: Log-Power Avg]Hold: 10/10 Trig: Free Run 56 dB	123456 M₩₩₩₩₩₩₩		
Swept SA KEYSIGHT Input: RF R T Align: Auto I Spectrum Scale/Div 10 dB Log 10.0 -10.0 -20.0	Input Ζ: 50 Ω Corr CCorr	·	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref Lvl Offset 2.	Avg Type: Log-Power Avg]Hold: 10/10 Trig: Free Run 56 dB	123456 M₩₩₩₩₩₩₩	-4.	
Swept SA KEYSIGHT Input: RF R T  Coupling: DC Align: Auto I Spectrum  Scale/Div 10 dB Log 1.0.0 -10.0	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref Level 20.00 (	Avg Type: Log-Power Avg]Hold: 10/10 Trig: Free Run 56 dB	123456 M₩₩₩₩₩₩₩	-4.	34 dBm
Swept SA           KEYSIGHT         Input: RF           R         T         →         Goupling: DC Align: Auto           I         Spectrum         ▼           Scale/Div 10 dB         ■         ■           10.0         ●         ■           -10.0         ●         ■           -20.0         ●         ■           -30.0         ●         ■           -40.0         ●         ■	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	·	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref Level 20.00 (	Avg Type: Log-Power Avg]Hold: 10/10 Trig: Free Run 56 dB	123456 M₩₩₩₩₩₩₩	-4.	.34 dBm
Swept SA           KEYSIGHT         Input: RF           R         T         →           I Spectrum         ✓           Scale/Div 10 dB         ✓           10.0         ✓           0.00         ✓           -10.0         ✓           -30.0         ✓	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref Level 20.00 (	Avg Type: Log-Power Avg]Hold: 10/10 Trig: Free Run 56 dB	123456 M₩₩₩₩₩₩₩	-4.	34 dBm
Swept SA           KEYSIGHT         Input: RF           R         T         Coupling: DC           I         Spectrum         Scale/Div 10 dB           Log         1         1           100         1         1           Scale/Div 10 dB         1         1           200         1         1         1           30.0         1         1         1           -20.0         -30.0         -40.0         -40.0         -50.0         -40.0	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref Level 20.00 (	Avg Type: Log-Power Avg Hold: 10/10 Trig: Free Run 56 dB JBm	123456 M₩₩₩₩₩₩₩	-4,	34 dBm
Swept SA           KEYSIGHT         Input: RF           R         T         →           I Spectrum         ✓           Scale/Div 10 dB         ✓           10.0         ↓           -10.0         ↓           -30.0         ↓           -40.0         ↓           -70.0         ↓	Input 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 2. Ref Level 20.00	Avg Type: Log-Power Avg Hold: 10/10 Trig: Free Run 56 dB JBm	123456 M₩₩₩₩₩₩₩	-4.	34 dBm
Swept SA           KEYSIGHT         Input: RF           R         T            I Spectrum         Imput: RF           Scale/Div 10 dB         Imput: RF           Log         1           10.0	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref Level 20.00 0 Comparison With the second second second second Comparison With the second s	Avg Type: Log-Power Avg Hold: 10/10 Trig: Free Run 56 dB 18m	123456 M₩₩₩₩₩₩₩	-4,	.34 dBm
Swept SA           KEYSIGHT         Input: RF           R         T         Gouping DC Align: Auto           I         Spectrum         V           Scale/Div 10 dB         Imput: RF           Log         Imput: RF           10.0         Imput: RF           Scale/Div 10 dB         Imput: RF           Start 30 MHz         Imput: RF           Mode         Trace         Scale           Imput: RF         Imput: RF           Mode         Trace         Scale           Imput: RF         Imput: RF         Imput: RF	Linput Z: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref Level 20.00 ( #Video BW 300 #Video BW 300 Y -4.343 dBm -53.49 dBm	Avg Type: Log-Power Avg Hold: 10/10 Trig: Free Run 56 dB 1Bm		-4,	.34 dBm
Swept SA           KEYSIGHT         Input: RF           R         T         →         Coupling: DC Align: Auto           I Spectrum         v           Scale/Div 10 dB         0         0           Log         1         1         1           10.0         0         0         0         0           -20.0         -30.0         -40.0         -50.0         -70.0	Linput 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 2. Ref Level 20.00 0 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Avg Type: Log-Power Avg Hold: 10/10 Trig: Free Run 56 dB 1Bm		-4,	.34 dBm ⇒L1-24 30 dBm ↓5
Swept SA           KEYSIGHT         Input: RF           R         T         T           Ispectrum         Coupling: DC           Scale/Div 10 dB         O           Log         1           100         1	Linput 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 2. Ref Level 20.000 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Avg Type: Log-Power Avg Hold: 10/10 Trig: Free Run 56 dB 1Bm		-4,	.34 dBm ⇒L1-24 30 dBm ↓5
Swept SA           KEYSIGHT         Input: RF           R         T         T           Ispectrum         Coupling: DC           Scale/Div 10 dB         O           Log         1           100         1	Linput 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 2. Ref Level 20.00 0 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Avg Type: Log-Power Avg Hold: 10/10 Trig: Free Run 56 dB 1Bm		-4,	.34 dBm ⇒L1-24 30 dBm ↓5
Swept SA           KEYSIGHT         Input: RF           R         T            Ispectrum         Imput: RF           Scale/Div 10 dB         Imput: RF           Log         Imput: RF           1.00         Imput: RF           Scale/Div 10 dB         Imput: RF           Log         Imput: RF           1.00         Imput: RF           Scale/Div 10 dB         Imput: RF           Start 30 MHz         Imput: RF           Start 30 MHz         Imput: RF           Mode         Trace         Scale           Imput: RF         Imput: RF         Imput: RF           Mode         Trace         Scale           Imput: RF         Imput: RF         Imput: RF           Mode	Linput 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 Fast Fast Video BW 3000 Y -4.343 dBm -53.94 dBm -53.94 dBm -53.94 dBm -50.09 dBm	Avg Type: Log-Power Avg Hold: 10/10 Trig: Free Run 56 dB 1Bm	1 2 3 4 5 6 M W W W W W P N N N N N 	-4,	.34 dBm







