

Test Data

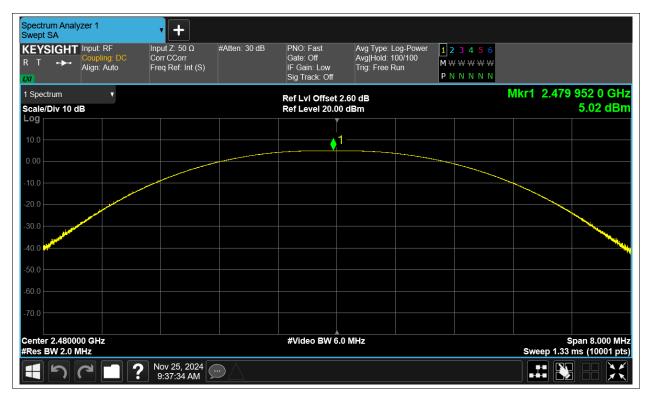
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	Ant1	5.786	30	Pass
NVNT	BLE	2442	Ant1	5.622	30	Pass
NVNT	BLE	2480	Ant1	5.016	30	Pass



			Test Grap					
		Powe	r NVNT BLE 24	402MHz Ant1				
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: Log-F Avg Hold: 100/1 Trig: Free Run	00 M₩₩			
1 Spectrum v			Ref LvI Offset 2				Mkr1 2.401	923 2 GHz
Scale/Div 10 dB Log			Ref Level 20.00	dBm				5.79 dBm
10.0			<u>_</u> 1					
0.00								
-10.0								
-20.0								
-30.0								and the second s
-40.0								
-50.0								
-60.0								
-70.0								
Center 2.402000 GHz			#Video BW 6.0) MHz			 :	Span 8.000 MHz
#Res BW 2.0 MHz	Nov 25, 2024							ms (10001 pts)
	? Nov 25, 2024 9:30:37 AM							
		Powe	r NVNT BLE 24	442MHz Ant1				
Spectrum Analyzer 1	+	Powe	r NVNT BLE 24	442MHz Ant1				
Swept SA KEYSIGHT Input: RF	ν + Input Z: 50 Ω	Power #Atten: 30 dB	PNO: Fast	Avg Type: Log-F		456		
Swept SA KEYSIGHT R T Align: Auto			PNO: Fast Gate: Off IF Gain: Low		00 M₩₩	₩₩₩		
Swept SA KEYSIGHT Input: RF R T ↔ Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Log-F Avg Hold: 100/1 Trig: Free Run	<u></u>	₩₩₩ NNN	Mkr1 2.441	908 8 GHz
Swept SA KEYSIGHT R T J I Spectrum ▼ Scale/Div 10 dB	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low	Avg Type: Log-F Avg Hold: 100/1 Trig: Free Run 2.58 d B	00 M₩₩	₩₩₩ NNN	Mkr1 2.441	908 8 GHz 5.62 dBm
Swept SA KEYSIGHT Input: RF R T +	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2	Avg Type: Log-F Avg Hold: 100/1 Trig: Free Run 2.58 d B	00 M₩₩	₩₩₩ NNN	Mkr1 2.441	
Swept SA KEYSIGHT Input: RF Coupling: DC Align: Auto V 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	Avg Type: Log-F Avg Hold: 100/1 Trig: Free Run 2.58 d B	00 M₩₩	₩₩₩ NNN	Mkr1 2.441	
Swept SA KEYSIGHT Input: RF R T + Coupling: 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 LvI Offset 2	Avg Type: Log-F Avg Hold: 100/1 Trig: Free Run 2.58 d B	00 M₩₩	₩₩₩ NNN	Mkr1 2.441	
Swept SA KEYSIGHT R T ↔ I Spectrum Scale/Div 10 dB Log 10.0 -10.0	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2	Avg Type: Log-F Avg Hold: 100/1 Trig: Free Run 2.58 d B	00 M₩₩	₩₩₩ NNN	Mkr1 2.441	
Swept SA KEYSIGHT Input: RF R T + Coupling: 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 LvI Offset 2	Avg Type: Log-F Avg Hold: 100/1 Trig: Free Run 2.58 d B	00 M₩₩	₩₩₩ NNN	Mkr1 2.441	
Swept SA KEYSIGHT R T ↔ I Spectrum Scale/Div 10 dB Log 10.0 -10.0	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2	Avg Type: Log-F Avg Hold: 100/1 Trig: Free Run 2.58 d B	00 M₩₩	₩₩₩ NNN	Mkr1 2.441	
Swept SA KEYSIGHT R T State S	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2	Avg Type: Log-F Avg Hold: 100/1 Trig: Free Run 2.58 d B	00 M₩₩	₩₩₩ NNN	Mkr1 2.441	
Swept SA KEYSIGHT R T I Spectrum Scale/Div 10 dB Log 10.0 -20.0 -30.0 Augustument of the second s	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2	Avg Type: Log-F Avg Hold: 100/1 Trig: Free Run 2.58 d B	00 M₩₩	₩₩₩ NNN	Mkr1 2.441	
Swept SA KEYSIGHT Input: RF Coupling: DC Align: Auto I Spectrum ▼ Scale/Div 10 dB 0 10.0 0 -10.0 0 -30.0 0 -40.0 0	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2	Avg Type: Log-F Avg Hold: 100/1 Trig: Free Run 2.58 d B	00 M₩₩	₩₩₩ NNN	Mkr1 2.441	
Swept SA KEYSIGHT Input: RF R T → Coupling: DC I Spectrum v Scale/Div 10 dB 0 0 10.0 - - - -20.0 - - - -30.0 - - - - -50.0 - - - -	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2	Avg Type: Log-F Avg Hold: 100/1 Trig: Free Run 2.58 d B	00 M₩₩	₩₩₩ NNN	Mkr1 2.441	
Swept SA KEYSIGHT Input: RF Coupling: DC Align: Auto I Spectrum ▼ Scale/Div 10 dB 0 10.0 0 -10.0 0 -30.0 0 -50.0 0 -60.0 0	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref Level 20.00	Avg Type: Log-F Avg Hold: 100/1 Trig: Free Run 2.58 dB dBm	00 M₩₩	₩₩₩ NNN		5.62 dBm
Swept SA KEYSIGHT Input: RF Coupling: DC Align: Auto I Spectrum ▼ Scale/Div 10 dB 0 10.0 0 -10.0 0 -30.0 0 -40.0 0 -50.0 0	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2	Avg Type: Log-F Avg Hold: 100/1 Trig: Free Run 2.58 dB dBm	00 M₩₩	₩₩₩ NNN	Sweep 1.33	5.62 dBm
Swept SA KEYSIGHT Input: RF R T → Input: RF Ispectrum v Scale/Div 10 dB Log 10.0 -10.0 -20.0 -30.0 -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-F Avg]Hold: 1001 Trig: Free Run 2.58 dB dBm	00 M₩₩	₩₩₩ NNN		5.62 dBm



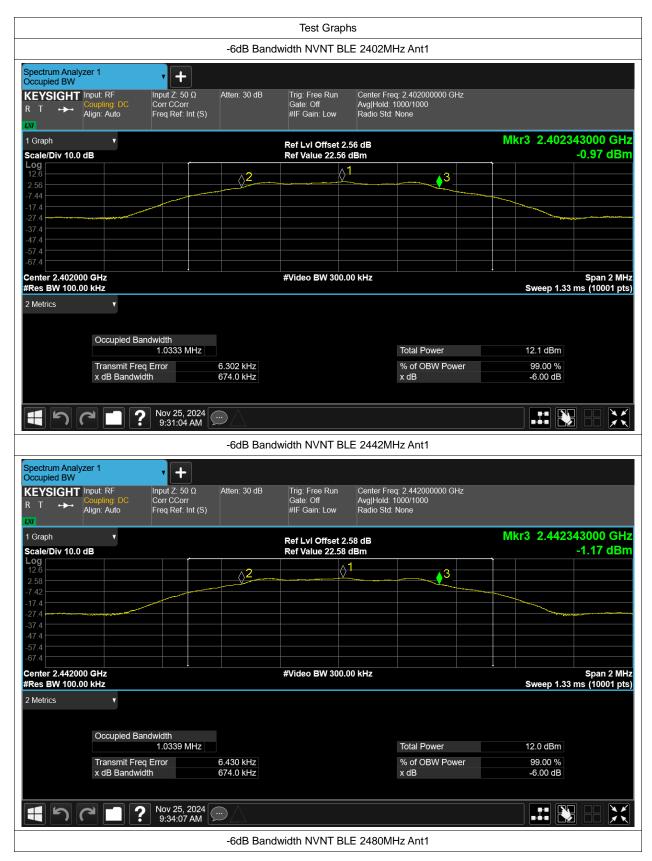




-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	limit	Verdic
NVNT	BLE	2402	Ant1	0.674	0.5	Pass
NVNT	BLE	2442	Ant1	0.674	0.5	Pass
NVNT	BLE	2480	Ant1	0.674	0.5	Pass







Spectrum Occupied		zer 1	• +					
KEYSIC R T 4	GHT ⊶⊷	Input: RF Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	Atten: 30 dB	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.480000000 GHz Avg Hold: 1000/1000 Radio Std: None		
1 Graph		•			Ref LvI Offset	2.60 dB	Mkr3 2.48034	
Scale/Div	v 10.0	dB			Ref Value 22.6	0 dBm		-1.66 dBm
Log 12.6				<u>0</u> 2		<u>¢</u> 13		
2.60								
-17.4								
-27.4								*****
-47.4								
-57.4 -67.4								
Center 2.	48000)0 CH7			#Video BW 300) 00 kHz		Span 2 MHz
#Res BW					#1060 844 300		Sweep 1.33 r	ms (10001 pts)
2 Metrics		•						
		Occupied Ba	ndwidth					
			1.0335 MHz			Total Power	11.4 dBm	
		Transmit Fre x dB Bandwi		5.876 kHz 674.3 kHz		% of OBW Power x dB	99.00 % -6.00 dB	
				074.3 KHZ		X UB	-0.00 dB	
	3		Nov 25, 2024 9:38:01 AM					



Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE	2402	Ant1	1.029
NVNT	BLE	2442	Ant1	1.029
NVNT	BLE	2480	Ant1	1.028







Spectrum Analy Occupied BW	zer 1	• +							
KEYSIGHT R T ↔→・	Input: RF Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	Atten: 30 dB	Trig: Free Run Gate: Off #IF Gain: Low	Center Free Avg Hold: 1 Radio Std:) GHz		
1 Graph				Ref LvI Offset 2.	60 dB				
Scale/Div 10.0	dB			Ref Value 22.60					
Log 12.6									
2.60									
-7.40									
-17.4							- has		
-37.4		~~~~~						~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
-47.4	~~~~~								~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
-57.4									
Center 2.48000				#Video BW 91.00	0 VU-				Span 3 MHz
#Res BW 30.00				#VIGEO BVV 51.00				Sweep 3.33	ms (10001 pts)
2 Metrics	•								
	Occupied Ba	ndwidth 1.0284 MHz				Total Power		11.4 dBm	
	Transmit Free		9.251 kHz			% of OBW F		99.00 %	
	x dB Bandwid		1.268 MHz			x dB		-26.00 dB	
ב א		Nov 25, 2024 9:37:48 AM							



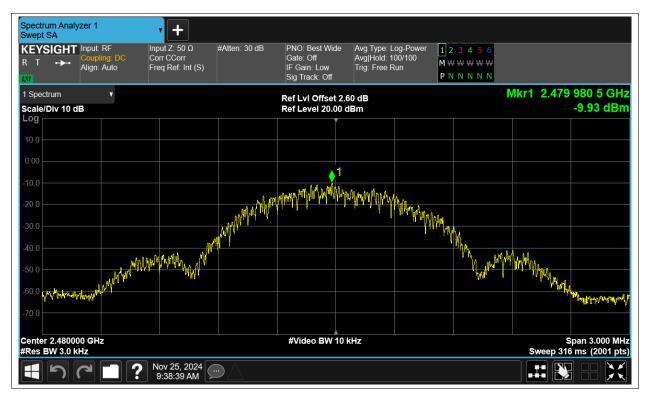
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	Ant1	-9.167	8	Pass
NVNT	BLE	2442	Ant1	-9.432	8	Pass
NVNT	BLE	2480	Ant1	-9.925	8	Pass



	Test Graphs	
	PSD NVNT BLE 2402MHz	Ant1
Spectrum Analyzer 1		
KEYSIGHT Input: RF Input Z: 50 Ω R T → Align: Auto Freq Ref: Int (S)	Gate: Off Avg Ho	pe: Log-Power 123456 ld: 100/100 M ₩ ₩ ₩ ₩ ₩ ree Run P N N N N N
1 Spectrum v	Ref LvI Offset 2.56 dB	Mkr1 2.401 980 5 GHz
Scale/Div 10 dB	Ref Level 20.00 dBm	-9.17 dBm
-10.0		Μ ⁴ ινας ,
-20.0	active property and the second s	
-50.0 -60.0		The second secon
-70.0 Center 2.402000 GHz	#Video BW 10 kHz	Span 3.000 MHz
#Res BW 3.0 kHz Nov 25, 2024 9:31:41 AM		Sweep 316 ms (2001 pts)
	PSD NVNT BLE 2442MHz	Ant1
Spectrum Analyzer 1		
KEYSIGHT Input: RF Input Z: 50 Ω R T → Coupling: DC Align: Auto Freq Ref: Int (S)	Gate: Off Avg Ho	pe: Log-Power 1 2 3 4 5 6 id: 100/100 mee Run P N N N N N
1 Spectrum v Scale/Div 10 dB Log	Ref LvI Offset 2.58 dB Ref Level 20.00 dBm	Mkr1 2.441 980 5 GHz -9.43 dBm
10.0		
-10.0		May Angle And
what we will be a start we will be a start we will be a start with the start with the start with the start we will be a start we will be a start with the start we will be a start we will be		· · · · · · · · · · · · · · · · · · ·
-60.0		I have to the standard
-70.0 Center 2.442000 GHz	#Video BW 10 kHz	Span 3.000 MHz
#Res BW 3.0 kHz		Sweep 316 ms (2001 pts)
H h h h h h h h h h h	PSD NVNT BLE 2480MHz	Ant1







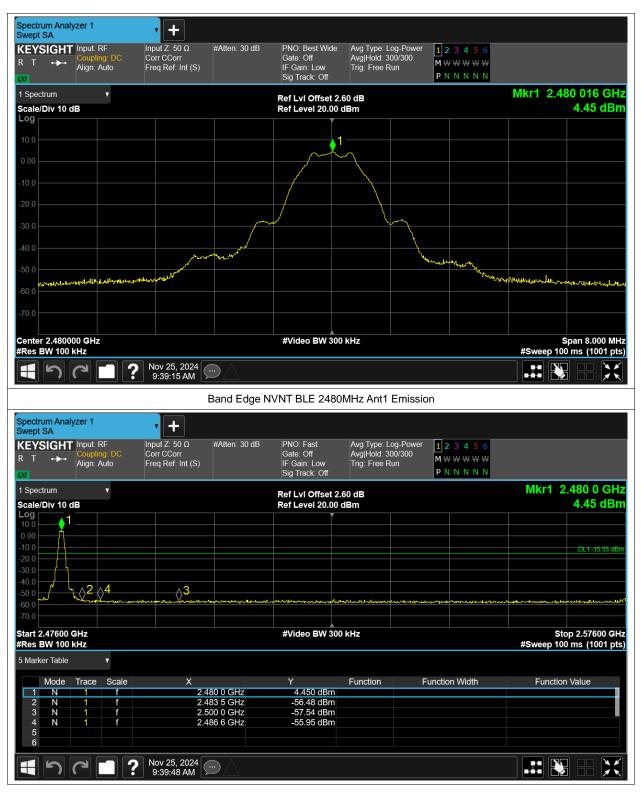
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	Ant1	-61.58	-20	Pass
NVNT	BLE	2480	Ant1	-60.4	-20	Pass



		Test Gr	aphs		
	E	and Edge NVNT BLE	2402MHz Ant1 F	Ref	
Spectrum Analyzer 1 Swept SA	+				
KEYSIGHT Input: RF R T ↔ Coupling: DC Align: Auto	Input Z: 50 Ω #At Corr CCorr Freq Ref: Int (S)	ten: 30 dB PNO: Best W Gate: Off IF Gain: Low Sig Track: Of	Avg Hold: 300/30 Trig: Free Run		
1 Spectrum V		Ref LvI Offse			Mkr1 2.402 016 GHz
Scale/Div 10 dB		Ref Level 20	.00 dBm		5.24 dBm
10.0			1		
0.00		~			
-10.0					
-20.0		/			
-30.0				<u></u>	
-40.0					
-50.0	and the second s			We we want water	
-60.0	progetly beplande			ակլա _{տվեր}	an and how the for the stand for the second
-70.0					
Center 2.402000 GHz #Res BW 100 kHz		#Video BW	300 kHz		Span 8.000 MHz #Sweep 50.0 ms (1001 pts)
4 5C ?	Nov 25, 2024	\wedge			
	Ban	Id Edde NVNT BLE 24	102MHz Ant1 Fm	ission	
Spectrum Apalyzer 1		Id Edge NVNT BLE 24	102MHz Ant1 Em	ission	
Spectrum Analyzer 1 Swept SA	• +				
	• +	ten: 30 dB PNO: Fast Gate: Off IF Gain: Low Sig Track: Of	Avg Type: Log-Pr Avg Hold: 300/30 Trig: Free Run	ower 123456	
Swept SA KEYSIGHT Input: RF R T Coupling: DC Align: Auto 1 Spectrum	Input Ζ: 50 Ω #At Corr CCorr	ten: 30 dB PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offse	Avg Type: Log.P Avg Hold: 300/30 Trig: Free Run f et 2.56 dB	ower 123456 M ₩ ₩ ₩ ₩ ₩	Mkr1 2.402 0 GHz 5.23 dBm
Swept SA KEYSIGHT Input: RF R T ↔ Coupling: DC Align: Auto	Input Ζ: 50 Ω #At Corr CCorr	ten: 30 dB PNO: Fast Gate: Off IF Gain: Low Sig Track: Of	Avg Type: Log.P Avg Hold: 300/30 Trig: Free Run f et 2.56 dB	ower 123456 M ₩ ₩ ₩ ₩ ₩	Mkr1 2.402 0 GHz 5.23 dBm ↓1
Swept SA KEYSIGHT Input: RF Coupling: DC Align: Auto Scale/Div 10 dB Log	Input Ζ: 50 Ω #At Corr CCorr	ten: 30 dB PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offse	Avg Type: Log.P Avg Hold: 300/30 Trig: Free Run f et 2.56 dB	ower 123456 M ₩ ₩ ₩ ₩ ₩	5.23 dBm
Swept SA KEYSIGHT Input: RF R T T 1 Spectrum V Scale/Div 10 dB Log 10.0 0.00 0.00 -10.0 0	Input Ζ: 50 Ω #At Corr CCorr	ten: 30 dB PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offse	Avg Type: Log.P Avg Hold: 300/30 Trig: Free Run f et 2.56 dB	ower 123456 M ₩ ₩ ₩ ₩ ₩	5.23 dBm
Swept SA KEYSIGHT Input: RF R T I Spectrum V Scale/Div 10 dB Log 10.0 20.0	Input Ζ: 50 Ω #At Corr CCorr	ten: 30 dB PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offse	Avg Type: Log.P Avg Hold: 300/30 Trig: Free Run f et 2.56 dB	ower 0 1 2 3 4 5 6 M W W W W P N N N N N	5.23 dBm
Swept SA KEYSIGHT Input: RF R T → Coupling: DC Align: Auto Align: Auto V Scale/Div 10 dB Log 0 0 0 10.0 0 0 0 -10.0 0 0 0 -30.0 0 0 0 -50.0 0 0 0	Input Ζ: 50 Ω #At Corr CCorr	ten: 30 dB PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offse	Avg Type: Log.P Avg Hold: 300/30 Trig: Free Run f et 2.56 dB	ower 123456 M ₩ ₩ ₩ ₩ ₩	5.23 dBm
Swept SA KEYSIGHT Input: RF R T I Spectrum Align: Auto Scale/Div 10 dB Log 10.0 -0.0 -10.0 -20.0 -40.0	Input Ζ: 50 Ω #At Corr CCorr	ten: 30 dB PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offse Ref Level 20	Avg Type: Log-Pr Avg Hold: 300/30 Trig: Free Run et 2.56 dB .00 dBm	ower 0 1 2 3 4 5 6 M W W W W P N N N N N	5.23 dBm
Swept SA KEYSIGHT Input: RF R T Coupling: DC I Spectrum V Scale/Div 10 dB Coupling: DC Log 0 0 10.0 0 0 20.0 0 0 -10.0 0 0 -20.0 0 0 -30.0 0 0 -40.0 0 0 -70.0 0 0 Start 2.30600 GHz #Res BW 100 kHz	Input Ζ: 50 Ω #At Corr CCorr	ten: 30 dB PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offse	Avg Type: Log-Pr Avg Hold: 300/30 Trig: Free Run et 2.56 dB .00 dBm	ower 0 1 2 3 4 5 6 M W W W W P N N N N N	5.23 dBm
Swept SA KEYSIGHT Input: RF R T T I Spectrum V Scale/Div 10 dB Out Log I I 0.00 I I Scale/Div 10 dB I I Log I I I Start 2.30600 GHz I I I Start 2.30600 GHz I I I S Marker Table I I I	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	ten: 30 dB PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offse Ref Level 20	Avg Type: Log.Pr Avg Hold: 300/30 Trig: Free Run et 2.56 dB .00 dBm	Dwer 1 2 3 4 5 6 M W W W W W P N N N N	5.23 dBm DL1-1479 dBm 2 3 Stop 2.40600 GHz #Sweep 50.0 ms (1001 pts)
Swept SA KEYSIGHT Input: RF R T T Goupling: DC 1 Spectrum Image: Colspan="2">Image: Colspan="2">Coupling: DC 1 Spectrum Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Coupling: DC 1 Spectrum Image: Colspan="2">Image: Colspan="2">Coupling: DC 1 Spectrum Image: Colspan="2">Image: Colspan="2" Image: Colspan="2" Image	Linput Z: 50 Ω Corr CCorr Freq Ref: Int (S) #At	ten: 30 dB PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offse Ref Level 20 #Video BW #Video BW	Avg Type: Log-Pr Avg Hold: 300/30 Trig: Free Run et 2.56 dB .00 dBm	ower 0 1 2 3 4 5 6 M W W W W P N N N N N	5.23 dBm
Swept SA KEYSIGHT Input: RF R T Coupling: DC Align: Auto Align: Auto VV Scale/Div 10 dB Log	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) #At Input Z: 50 Ω Corr CCorr #At Input Z: 50 Ω #At	ten: 30 dB PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offse Ref Level 20 #Video BW #Video BW	Avg Type: Log.Pr Avg Hold: 300/30 Trig: Free Run et 2.56 dB .00 dBm	Dwer 1 2 3 4 5 6 M W W W W W P N N N N	5.23 dBm
Swept SA KEYSIGHT Input: RF R T Coupling: DC I Spectrum V Scale/Div 10 dB V Log I I 10.0 I I 20.0 I I 30.0 I I 40.0 I I Start 2.30600 CH2 I Start 2.30600 CH2 I Mode Trace Scale 1 1 1 4 N 1 1	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) #At Input Z: 50 Ω Corr CCorr #At Input Z: 50 Ω #A	ten: 30 dB PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offse Ref Level 20 #Video BW #Video BW	Avg Type: Log.Pr Avg Hold: 300/30 Trig: Free Run et 2.56 dB .00 dBm	Dwer 1 2 3 4 5 6 M W W W W W P N N N N	5.23 dBm DL1-1479 dBm 2 3 Stop 2.40600 GHz #Sweep 50.0 ms (1001 pts)
Swept SA KEYSIGHT Input: RF R T Coupling: DC I Spectrum V Scale/Div 10 dB Out Log I I 10.0 I I 20.0 I I 30.0 I I Start 2.30600 GHz Res BW 100 kHz V Start 2.30600 GHz I I Mode Trace Scale 1 1 1 1 5 1 1 1 4 1 1 1 1 5 6 6 6 6	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) #At Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) #At 2.402 Ω 2.402 Ω 2.402 Ω 2.402 Ω 2.402 Ω 2.402 Ω 2.402 Ω 2.402 Ω 2.402 Ω 2.378 7	ten: 30 dB PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offse Ref Level 20 #Video BW #Video BW	Avg Type: Log.Pr Avg Hold: 300/30 Trig: Free Run et 2.56 dB .00 dBm	Dwer 1 2 3 4 5 6 M W W W W W P N N N N	5.23 dBm
Swept SA KEYSIGHT Input: RF R T Coupling: DC I Spectrum V Scale/Div 10 dB V Log I I 10.0 I I 20.0 I I 30.0 I I 40.0 I I Start 2.30600 CH2 I Start 2.30600 CH2 I Mode Trace Scale 1 1 1 4 N 1 1	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) #At Input Z: 50 Ω Corr CCorr #At Input Z: 50 Ω #At Input Q: 50 Ω #A	ten: 30 dB PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offse Ref Level 20 #Video BW #Video BW	Avg Type: Log-Pr Avg Hold: 300/30 Trig: Free Run et 2.56 dB .00 dBm Avg Type: Log-Pr Strig: Free Run at 2.56 dB .00 dBm Function Function m at 2.56 dB .00 dBm Avg Type: Log-Pr Avg Type: L	1 2 3 4 5 6 M W	5.23 dBm DL1-1476 dBm 2 3 5top 2.40600 GHz #Sweep 50.0 ms (1001 pts)







Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	Ant1	-54.66	-20	Pass
NVNT	BLE	2442	Ant1	-54.51	-20	Pass
NVNT	BLE	2480	Ant1	-53.58	-20	Pass



			Test Graph	IS			
		Tx. Spuriou	us NVNT BLE 24	402MHz Ant1 Ref			
Spectrum Analyzer 1 Swept SA	• +						
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 v			Ref LvI Offset 2.	56 dB		Mkr1 2.402	
Scale/Div 10 dB Log			Ref Level 20.00	dBm			5.26 dBm
10.0				1			
0.00							
-10.0							
-20.0							and a second
-30.0							and the second s
-40.0							
-50.0							
-60.0							
-70.0							
Center 2.4020000 GHz #Res BW 100 kHz			#Video BW 300	kHz			Span 1.500 MHz
	Nov 25, 2024	\frown				Sweep 1.0	0 ms (1001 pts)
	9:32:25 AM						
	_						
r	1	۲x. Spurious ۱	NVNT BLE 2402	2MHz Ant1 Emiss	ion		
Spectrum Analyzer 1 Swept SA	T •	「x. Spurious I	NVNT BLE 2402	2MHz Ant1 Emissi	ion		
		Tx. Spurious I	NVNT BLE 2402 PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	2MHz Ant1 Emiss Avg Type: Log-Power Avg Hold: 10/10 Trig: Free Run			
Swept SA KEYSIGHT R T Coupling: DC Align: Auto 1 Spectrum	Input Z: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref Lvl Offset 2.3	Avg Type: Log-Power Avg]Hold: 10/10 Trig: Free Run 56 dB	1 23456 M₩₩₩₩₩₩	Mkr1	2.402 GHz 5.01 dBm
Swept SA KEYSIGHT R T +++ Coupling: DC Align: Auto	Input Z: 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	1 23456 M₩₩₩₩₩₩	Mkr1	2.402 GHz 5.01 dBm
Sivept SA KEYSIGHT R T Input: RF Coupling: DC Align: Auto Scale/Div 10 dB Log 1.0.0 0.00	Input Z: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref Lvl Offset 2.3	Avg Type: Log-Power Avg]Hold: 10/10 Trig: Free Run 56 dB	1 23456 M₩₩₩₩₩₩	Mkr1	5.01 dBm
Swept SA KEYSIGHT R T ··· Scale/Div 10 dB ··· Coupling: DC Align: Auto ··· Scale/Div 10 dB ··· Coupling: DC	Input Z: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref Lvl Offset 2.3	Avg Type: Log-Power Avg]Hold: 10/10 Trig: Free Run 56 dB	1 23456 M₩₩₩₩₩₩	Mkr1	
Sivept SA KEYSIGHT Input: RF R T	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref Lvl Offset 2.3	Avg Type: Log-Power Avg]Hold: 10/10 Trig: Free Run 56 dB	1 23456 M₩₩₩₩₩₩	Mkr1	5.01 dBm
Swept SA KEYSIGHT Input: RF R T → Auto I Spectrum ▼ Scale/Div 10 dB 1 Log 1 1 1 1 10.0 0 0 0 0 1 1 0 -10.0 -20.0 -30.0 -4	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref Lvl Offset 2.3	Avg Type: Log-Power Avg]Hold: 10/10 Trig: Free Run 56 dB	1 23456 M₩₩₩₩₩₩	Mkr1	5.01 dBm
Swept SA KEYSIGHT Input: RF R T Coupling: DC J Spectrum V Scale/Div 10 dB 0 0 10.0 1 1	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	1 23456 M₩₩₩₩₩₩		5.01 dBm
Sivept SA KEYSIGHT Input: RF R T Coupling: DC Align: Auto Align: Auto I Spectrum V Scale/Div 10 dB 1 Log 1 10.0 1 -20.0 - -30.0 - -40.0 - -50.0 -	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref Lvl Offset 2.3	Avg Type: Log-Power Avg Hold: 10/10 Trig: Free Run 56 dB JBm	1 23456 M₩₩₩₩₩₩		5.01 dBm
Swept SA KEYSIGHT Input: RF R T Coupling: DC Align: Auto Align: Auto I Spectrum V Scale/Div 10 dB 1 Log 1 10.0 1 -20.0 1 -30.0 -40.0 -70.0 -55.0 Start 30 MHz	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	1 23456 M₩₩₩₩₩₩		5.01 dBm
Swept SA KEYSIGHT Input: RF R T Coupling: DC Jign: Auto V Scale/Div 10 dB V Scale/Div 10 dB 1 200 1 0 10.0 1 0 -10.0 -1 0 -20.0 -30.0 -40.0 -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 (Avg Type: Log-Power Avg Hold: 10/10 Trig: Free Run 56 dB dBm	1 23456 M₩₩₩₩₩₩		5.01 dBm DL1-14.74 dBm 5 Stop 25.00 GHz .49 s (1001 pts)
Swept SA KEYSIGHT Input: RF R T → Auto I Spectrum ▼ Scale/Div 10 dB ■ Log 1 ■ ■ ■ Scale/Div 10 dB ■	Length 2: 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 With the second secon	Avg Type: Log-Power Avg Hold: 10/10 Trig: Free Run 56 dB dBm		Sweep ~2	5.01 dBm DL1-14.74 dBm 5 Stop 25.00 GHz .49 s (1001 pts)
Swept SA KEYSIGHT Input: RF R T Coupling: DC Align: Auto I Spectrum V Scale/Div 10 dB Out Out Log 1 Out I 10.0 1 Out I Out -20.0 -30.0 -40.0 -50.0 -40.0 -50.0 -40.0 -50.0 </td <td>Linput Z: 50 Ω Corr CCorr Freq Ref: Int (S)</td> <td>#Atten: 30 dB</td> <td>PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2.: Ref Level 20.00 of #Video BW 300 #Video BW 300</td> <td>Avg Type: Log-Power Avg Hold: 10/10 Trig: Free Run 56 dB dBm</td> <td></td> <td>Sweep ~2</td> <td>5.01 dBm</td>	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 of #Video BW 300 #Video BW 300	Avg Type: Log-Power Avg Hold: 10/10 Trig: Free Run 56 dB dBm		Sweep ~2	5.01 dBm
Swept SA KEYSIGHT Input: RF R T → Auto 1 Spectrum ▼ Scale/Div 10 dB ■ Log 1 ■ ■ ■ Scale/Div 10 dB ■	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 #Video BW 300 #Video BW 300 Y 5.007 dBm -53.93 dBm -53.93 dBm -54.91 dBm	Avg Type: Log-Power Avg Hold: 10/10 Trig: Free Run 56 dB dBm		Sweep ~2	5.01 dBm
Swept SA KEYSIGHT Input: RF R T → Auto 1 Spectrum ▼ Scale/Div 10 dB ■ Log 1 ■ ■ ■ Scale/Div 10 dB ■	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 #Video BW 300 #Video BW 300 Y 5.007 dBm -53.93 dBm -53.93 dBm -54.91 dBm	Avg Type: Log-Power Avg Hold: 10/10 Trig: Free Run 56 dB dBm		Sweep ~2	5.01 dBm







