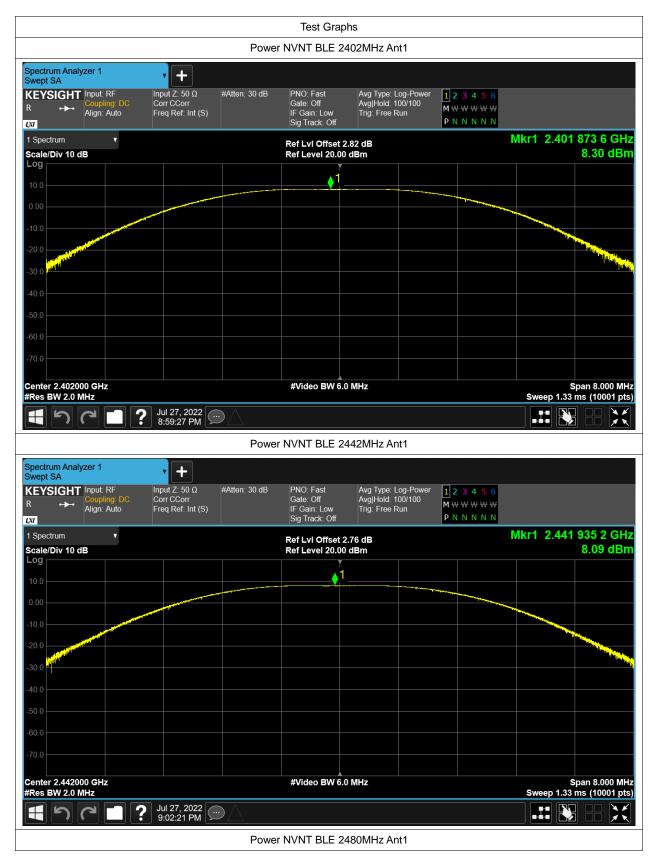


#### Test Data

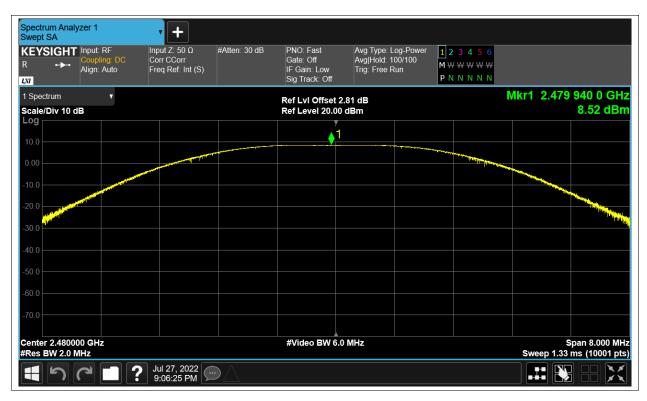
## **Maximum Conducted Output Power**

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	Ant1	8.298	30	Pass
NVNT	BLE	2442	Ant1	8.087	30	Pass
NVNT	BLE	2480	Ant1	8.521	30	Pass











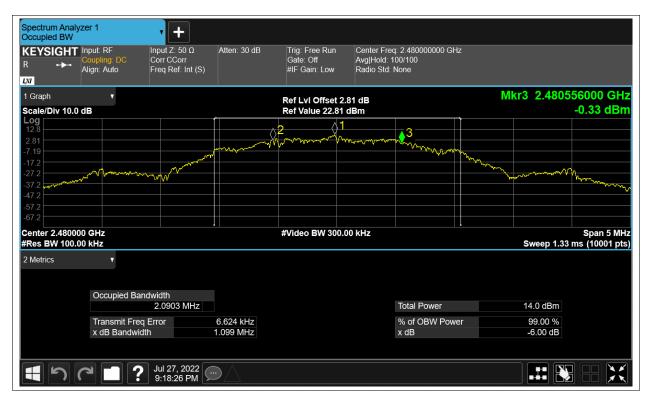
## -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	limit	Verdic
NVNT	BLE	2402	Ant1	1.116	0.5	Pass
NVNT	BLE	2442	Ant1	1.113	0.5	Pass
NVNT	BLE	2480	Ant1	1.099	0.5	Pass











# **Occupied Channel Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE	2402	Ant1	2.07789677
NVNT	BLE	2442	Ant1	2.072066109
NVNT	BLE	2480	Ant1	2.082430588







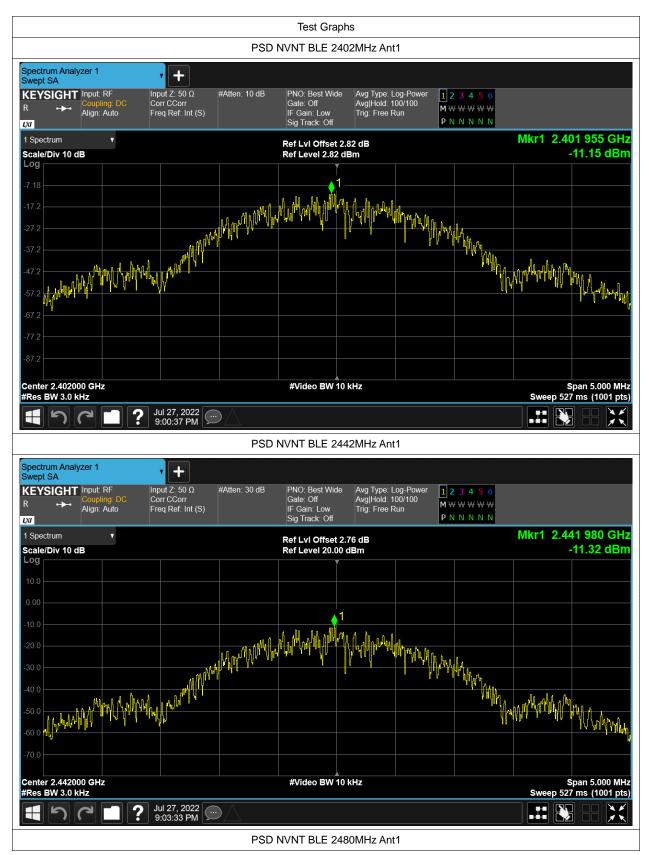




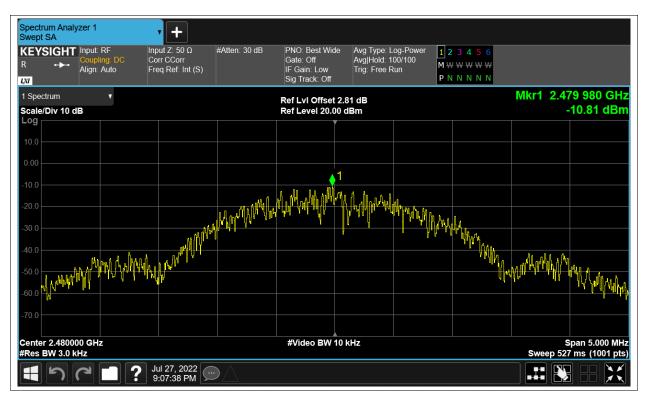
# **Maximum Power Spectral Density Level**

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	Ant1	-11.149	8	Pass
NVNT	BLE	2442	Ant1	-11.323	8	Pass
NVNT	BLE	2480	Ant1	-10.814	8	Pass











## **Band Edge**

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	Ant1	-57.43	-20	Pass
NVNT	BLE	2480	Ant1	-53.98	-20	Pass







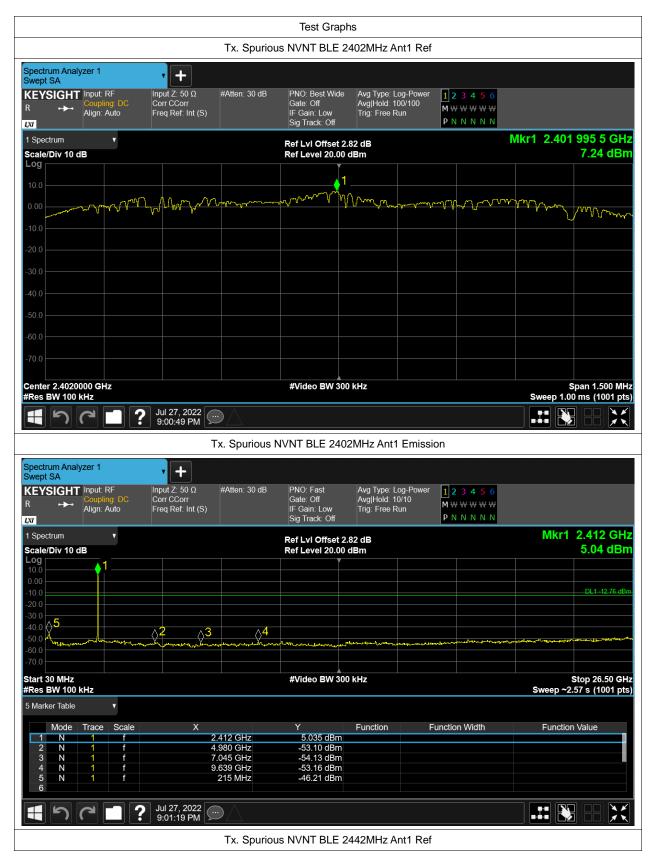




# **Conducted RF Spurious Emission**

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	Ant1	-53.44	-20	Pass
NVNT	BLE	2442	Ant1	-54.71	-20	Pass
NVNT	BLE	2480	Ant1	-55.06	-20	Pass







Spectrum Analyzer 1 Swept SA	• +						
Coupling: DC	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-Pow Avg Hold: 100/100 Trig: Free Run	er 123456 M₩₩₩₩₩₩ PNNNNN		
1 Spectrum			Ref Lvl Offset 2	76 dB		Mkr1 2.441	989 5 GHz
Scale/Div 10 dB			Ref Level 20.00				7.04 dBm
10.0			ľ				
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-10.0							
-20.0							
-30.0							
-40.0							
-50.0							
-60.0							
-70.0							
Center 2.4420000 GHz			#Video BW 300	0 kHz		S	pan 1.500 MHz
#Res BW 100 kHz						Sweep 1.00	ms (1001 pts)
4 っ С 1 ?	Jul 27, 2022 9:03:37 PM						
	Tx	. Spurious N	IVNT BI F 244	2MHz Ant1 Emis	sion		
Spectrum Analyzer 1							
Swept SA KEYSIGHT Input: RF	<b>τ</b> Input Z: 50 Ω	#Atten: 30 dB	PNO: Fast	Avg Type: Log-Pow			
Swept SA       KEYSIGHT       R       Input: RF       Coupling: DC       Align: Auto	• +	-	PNO: Fast Gate: Off IF Gain: Low		er 123456 M₩₩₩₩₩₩		
Swept SA KEYSIGHT R ↔ Align: Auto	T + Input Z: 50 Ω # Corr CCorr	-	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Log-Pow Avg Hold: 10/10 Trig: Free Run	er 123456	Mkr1	2 439 GHz
Swept SA       KEYSIGHT       R       →       Coupling: DC       Align: Auto       1 Spectrum       Scale/Div 10 dB	T + Input Z: 50 Ω # Corr CCorr	-	PNO: Fast Gate: Off IF Gain: Low	Avg Type: Log-Pow Avg]Hold: 10/10 Trig: Free Run .76 dB	er 123456 M₩₩₩₩₩₩	Mkr1	2.439 GHz 3.53 dBm
Swept SA KEYSIGHT R  Align: Auto LVI 1 Spectrum Scale/Div 10 dB Log 10.0 1	T + Input Z: 50 Ω # Corr CCorr	-	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2	Avg Type: Log-Pow Avg]Hold: 10/10 Trig: Free Run .76 dB	er 123456 M₩₩₩₩₩₩	Mkr1	
Swept SA KEYSIGHT R Coupling: DC Aign: Auto V Scale/Div 10 dB Log	T + Input Z: 50 Ω # Corr CCorr	-	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2	Avg Type: Log-Pow Avg]Hold: 10/10 Trig: Free Run .76 dB	er 123456 M₩₩₩₩₩₩	Mkr1	
Swept SA           KEYSIGHT           R           Imput: RF           Coupling: DC           Align: Auto           1 Spectrum           Scale/Div 10 dB           Log           100           -0.00	T + Input Z: 50 Ω # Corr CCorr	-	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2	Avg Type: Log-Pow Avg]Hold: 10/10 Trig: Free Run .76 dB	er 123456 M₩₩₩₩₩₩	Mkr1	3.53 dBm
Swept SA         Input: RF           R          Auto           1 Spectrum         v           Scale/Div 10 dB            100          1           -200             -300	Input Ζ: 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-Pow Avg]Hold: 10/10 Trig: Free Run .76 dB	er 123456 M₩₩₩₩₩₩	Mkr1	3.53 dBm
Swept SA           KEYSIGHT         Input: RF           R         →         Auto           I Spectrum         ✓           Scale/Div 10 dB         ✓           100         ✓	T + Input Z: 50 Ω # Corr CCorr	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2	Avg Type: Log-Pow Avg]Hold: 10/10 Trig: Free Run .76 dB	er 123456 M₩₩₩₩₩₩	<b>Mkr1</b>	3.53 dBm
Swept SA         Input: RF           R         Input: RF           200         Align: Auto           1 Spectrum         V           Scale/Div 10 dB         Input: RF           100         Input: RF           <	Input Ζ: 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-Pow Avg Hold: 10/10 Trig: Free Run .76 dB dBm	er 123456 M₩₩₩₩₩₩		3.53 dBm
Swept SA           KEYSIGHT         Input: RF           R         →         Auto           I Spectrum         ✓           Scale/Div 10 dB         ✓           100         ✓	Input Ζ: 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	Avg Type: Log-Pow Avg Hold: 10/10 Trig: Free Run .76 dB dBm	er 123456 M₩₩₩₩₩₩		3.53 dBm
Swept SA           KEYSIGHT R         Input: RF Coupling: DC Align: Auto           I Spectrum         V           Scale/Div 10 dB         V           100	Input Ζ: 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-Pow Avg Hold: 10/10 Trig: Free Run .76 dB dBm	er 123456 M₩₩₩₩₩₩		3.53 dBm DL1-12.96 dBm
Swept SA         Input: RF           R         Input: RF           200         Align: Auto           1 Spectrum         V           Scale/Div 10 dB         Imput: RF           100         Imput: RF           <	Liput 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	Avg Type: Log-Pow Avg Hold: 10/10 Trig: Free Run .76 dB dBm	er 123456 M₩₩₩₩₩₩		3.53 dBm DL1-12 96 dBm 500 26.50 GHz 57 s (1001 pts)
Swept SA KEYSIGHT R	Liput 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-Pow Avg Hold: 10/10 Trig: Free Run .76 dB dBm	er 123456 M W W W W W P N N N N N 	Sweep ~2.5	3.53 dBm DL1-12 96 dBm 500 26.50 GHz 57 s (1001 pts)
Swept SA         Input: RF           R         Input: RF           Quiling: DC         Align: Auto           1 Spectrum         Imput: RF           Scale/Div 10 dB         Imput: RF           10.0         Imput: RF           20.0         Imput: RF           -30.0         Imput: RF           -30.0 <td>Liput 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 Level 20.00 #Video BW 300 #Video BW 300 Y 3.531 dBm -53.57 dBm</td> <td>Avg Type: Log-Pow Avg Hold: 10/10 Trig: Free Run .76 dB dBm</td> <td>er 123456 M W W W W W P N N N N N </td> <td>Sweep ~2.5</td> <td>3.53 dBm DL1-12 96 dBm 500 26.50 GHz 57 s (1001 pts)</td>	Liput 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 3.531 dBm -53.57 dBm	Avg Type: Log-Pow Avg Hold: 10/10 Trig: Free Run .76 dB dBm	er 123456 M W W W W W P N N N N N 	Sweep ~2.5	3.53 dBm DL1-12 96 dBm 500 26.50 GHz 57 s (1001 pts)
Swept SA         Input: RF           R	Liput 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 Y 3.531 dBm -54.38 dBm -54.38 dBm	Avg Type: Log-Pow Avg Hold: 10/10 Trig: Free Run .76 dB dBm	er 123456 M W W W W W P N N N N N 	Sweep ~2.5	3.53 dBm DL1-12 96 dBm 500 26.50 GHz 57 s (1001 pts)
Swept SA         Input: RF           R	Liput 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 Y 3.531 dBm -54.38 dBm -54.38 dBm	Avg Type: Log-Pow Avg Hold: 10/10 Trig: Free Run .76 dB dBm	er 123456 M W W W W W P N N N N N 	Sweep ~2.5	3.53 dBm



