

Test Data

Maximum Conducted Output Power

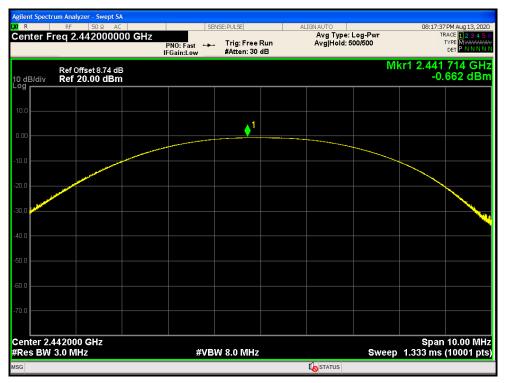
Condition	Mode	Frequency	Antenna	Conducted Power	Duty Factor	Total Power	Limit	Verdict
		(MHz)		(dBm)	(dB)	(dBm)	(dBm)	
NVNT	BLE	2402	Ant1	1.291	0	1.291	30	Pass
NVNT	BLE	2442	Ant1	-0.662	0	-0.662	30	Pass
NVNT	BLE	2480	Ant1	-0.797	0	-0.797	30	Pass



Power NVNT BLE 2402MHz Ant1

Power NVNT BLE 2442MHz Ant1





Power NVNT BLE 2480MHz Ant1



-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE	2402	Ant1	0.662	0.5	Pass
NVNT	BLE	2442	Ant1	0.666	0.5	Pass
NVNT	BLE	2480	Ant1	0.656	0.5	Pass

Shenzhen Zhongjian Nanfang Testing Co., Ltd. No.110~116, Building B, Jinyuan Business Building, Xixiang Road Bao'an District, Shenzhen, Guangdong, China Tel: +86-755-23118282, Fax: +86-755-23116366



-6dB Bandwidth NVNT BLE 2402MHz Ant1



-6dB Bandwidth NVNT BLE 2442MHz Ant1



-6dB Bandwidth NVNT BLE 2480MHz Ant1



Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE	2402	Ant1	1.034305624
NVNT	BLE	2442	Ant1	1.015357872
NVNT	BLE	2480	Ant1	1.031042125

OBW NVNT BLE 2402MHz Ant1



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OBW NVNT BLE 2442MHz Ant1



OBW NVNT BLE 2480MHz Ant1



Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	Ant1	-15.382	8	Pass
NVNT	BLE	2442	Ant1	-24.839	8	Pass
NVNT	BLE	2480	Ant1	-24.818	8	Pass

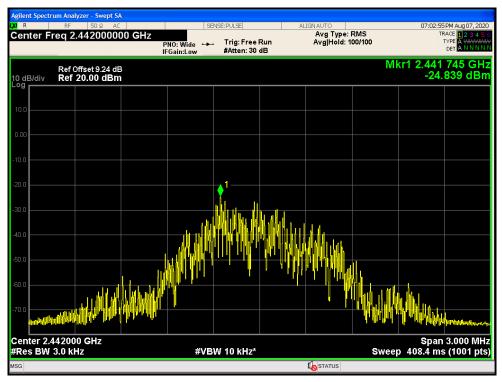
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PSD NVNT BLE 2402MHz Ant1

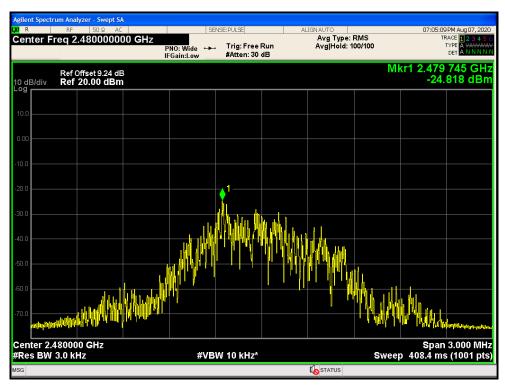
PSD NVNT BLE 2442MHz Ant1



PSD NVNT BLE 2480MHz Ant1

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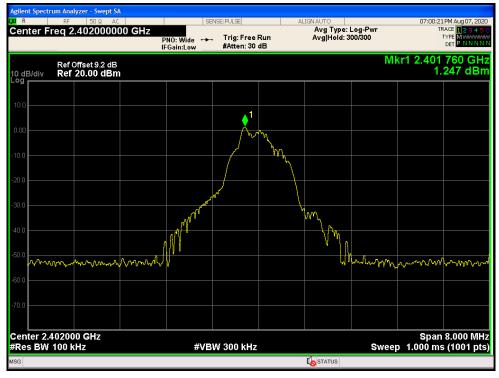


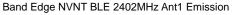


Band Edge

	-					
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	Ant1	-50.44	-20	Pass
NVNT	BLE	2480	Ant1	-48.89	-20	Pass

Band Edge NVNT BLE 2402MHz Ant1 Ref







R RE	alyzer - Swept SA		SENS	E:PULSE		ALIGNAUTO		07:00:29	PM Aug 07, 20
	2.35600000	PI	10: Fast ↔→ Gain:Low	Trig: Free F #Atten: 30 c			e: Log-Pwr : 300/300	TF	RACE 12345 TYPE MWWW DET PNNN
	f Offset 9.2 dB f 20.00 dBm							Mkr1 2.4 1.	01 8 GH 285 dBi
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1.0 1.0									
art 2.30600 Res BW 100			#VBW	300 kHz			Swe	Stop 2. ep 9.600 ms	40600 GI (1001 pt
R MODE TRC SC			Y	FUNC	TION	FUNCTION WIDTH		FUNCTION VALUE	
N 1 f N 1 f N 1 f		2.401 8 GHz 2.400 0 GHz 2.390 0 GHz	1.285 dl -51.495 dl -51.012 dl	3m 3m					
N 1 f		2.377 1 GHz	-49.196 dl	3m					
1									

Band Edge NVNT BLE 2480MHz Ant1 Ref



Band Edge NVNT BLE 2480MHz Ant1 Emission

Agilent Spectrum Analyzer - Swept SA					
R RF 50 Q AC Center Freq 2.526000000 GHz		ig: Free Run tten: 30 dB	ALIGN AUTO Avg Type: Avg Hold: 3		07:05:21 PM Aug 07, 2020 TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N N
Ref Offset 9.24 dB 10 dB/div Ref 20.00 dBm				N	1kr1 2.479 8 GHz -0.855 dBm
-10.0					-20.83 dBn
-40.0 -50.0	al yee of the first of the second	an and an	what who are the fair	hashoran goradha	J-J-The Laffer and the strength of the strengt
-60.0					
Start 2.47600 GHz #Res BW 100 kHz	#VBW 30	00 kHz		Sweep	Stop 2.57600 GHz 9.600 ms (1001 pts
MKR MODE TRC SCL X 1 N 1 f 2.479 8 G 2 N 1 f 2.483 5 G 3 N 1 f 2.493 6 G 4 N 1 f 2.492 7 G 5 6 6 7 7 8 9 9 1 1	Hz -51.890 dBm Hz -50.930 dBm		FUNCTION WIDTH	FUN	ICTION VALUE
11 MSG			STATUS		

Conducted RF Spurious Emission

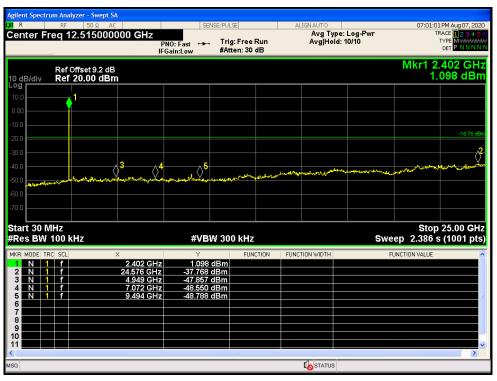
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	Ant1	-39	-20	Pass
NVNT	BLE	2442	Ant1	-36.66	-20	Pass
NVNT	BLE	2480	Ant1	-36.68	-20	Pass

Tx. Spurious NVNT BLE 2402MHz Ant1 Ref

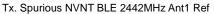


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Tx. Spurious NVNT BLE 2402MHz Ant1 Emission





Tx. Spurious NVNT BLE 2442MHz Ant1 Emission



R	RF 50Ω /	A,C	SEN	ISE:PULSE	ALIGN AUTO		07:03:29 PM Aug 07, 2
enter Fre	eq 12.51500	0000 GHz	PNO: Fast +++ Gain:Low	Trig: Free Run #Atten: 30 dB		e: Log-Pwr : 10/10	TRACE 1 2 3 4 TYPE MWWW DET P N N
0 dB/div	Ref Offset 9.24 Ref 20.00 dB	dB m					Mkr1 2.452 GI -2.509 dB
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art 30 MH Res BW 1			#VBV	V 300 kHz		Swe	Stop 25.00 G ep 2.386 s (1001 p
Res BW 1	00 kHz	X	Y	FUNCTION	FUNCTION WIDTH		Stop 25.00 G ep 2.386 s (1001 p JNCTION VALUE
Res BW 1	00 kHz	2.452 GHz 24.750 GHz	-2.509 (-37.391 (FUNCTION	FUNCTION WIDTH		ep 2.386 s (1001 p
Res BW 1	00 kHz	2.452 GHz	۲ -2.509 و	FUNCTION IBm IBm IBm	FUNCTION WIDTH		ep 2.386 s (1001 p
R MODE TRC N 1 N 1 N 1 N 1 N 1 N 1 N 1	00 kHz	2.452 GHz 24.750 GHz 5.074 GHz	-2.509 (-37.391 (-47.880 (FUNCTION IBm IBm IBm IBm	FUNCTION WIDTH		ep 2.386 s (1001 p
R MODE TRC N 1 N 1 N 1 N 1 N 1 N 1 N 1	00 kHz	2.452 GHz 24.750 GHz 5.074 GHz 7.471 GHz	-2.509 (-37.391 (-47.880 (-48.486 (FUNCTION IBm IBm IBm IBm	FUNCTION WIDTH		ep 2.386 s (1001 p
R MODE TRC N 1 1	00 kHz	2.452 GHz 24.750 GHz 5.074 GHz 7.471 GHz	-2.509 (-37.391 (-47.880 (-48.486 (FUNCTION IBm IBm IBm IBm	FUNCTION WIDTH		ep 2.386 s (1001 p
R MODE TRC N 1 N 1 N 1 N 1 N 1 N 1	00 kHz	2.452 GHz 24.750 GHz 5.074 GHz 7.471 GHz	-2.509 (-37.391 (-47.880 (-48.486 (FUNCTION IBm IBm IBm IBm	FUNCTION WIDTH		ep 2.386 s (1001 p

Tx. Spurious NVNT BLE 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 2480MHz Ant1 Emission



gilent Spectr	um Ana	lyzer - Swept SA												
R	RF	50 Ω AC			SEN:	SE:PULSE		AL	IGN AUTO				07:05:5	5 PM Aug 07, 202
Center Fi	req 1	2.5150000		PNO: Fast FGain:Lov		Trig: Fr #Atten:			Avg Ty Avg Ho	pe: Log Id: 10/10				RACE 12345 TYPE MWWW DET PNNNN
0 dB/div		Offset 9.24 dE 20.00 dB m										Μ		.477 GH: 724 dBn
.og 10.0														
10.0		1												
20.0 30.0														-20.87 dB
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60.0														
Start 30 M Res BW		(Hz			#VBV	V 300 ki	Hz				Sw	veep 2	Stop 2.386 s	25.00 GH
IKR MODE TR		>	<		Y		FUNCTION	FUNC	TION WIDTH			FUNCTIO		
1 N 1 2 N 1 3 N 1	f f f		2.477 GHz 24.401 GHz 4.949 GHz	-3 : -4	0.724 c 7.553 c 9.039 c	IBm IBm								
4 N 1 5 N 1 6	f		7.471 GHz 10.068 GHz	44	7.459 c 8.433 c	IBm IBm								
7 8 9														
1														>