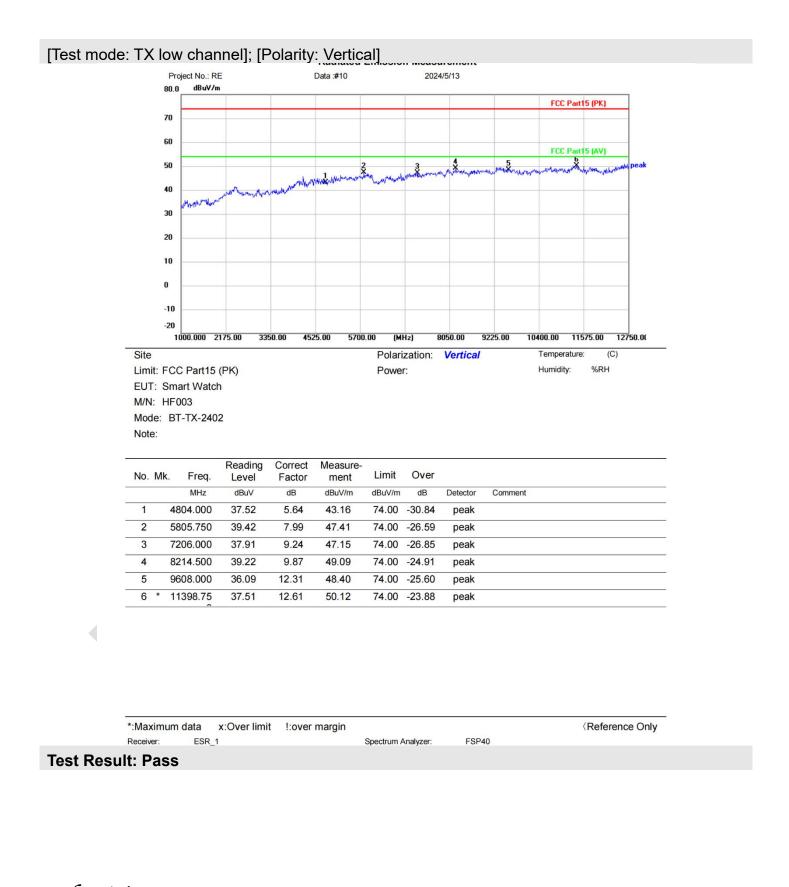


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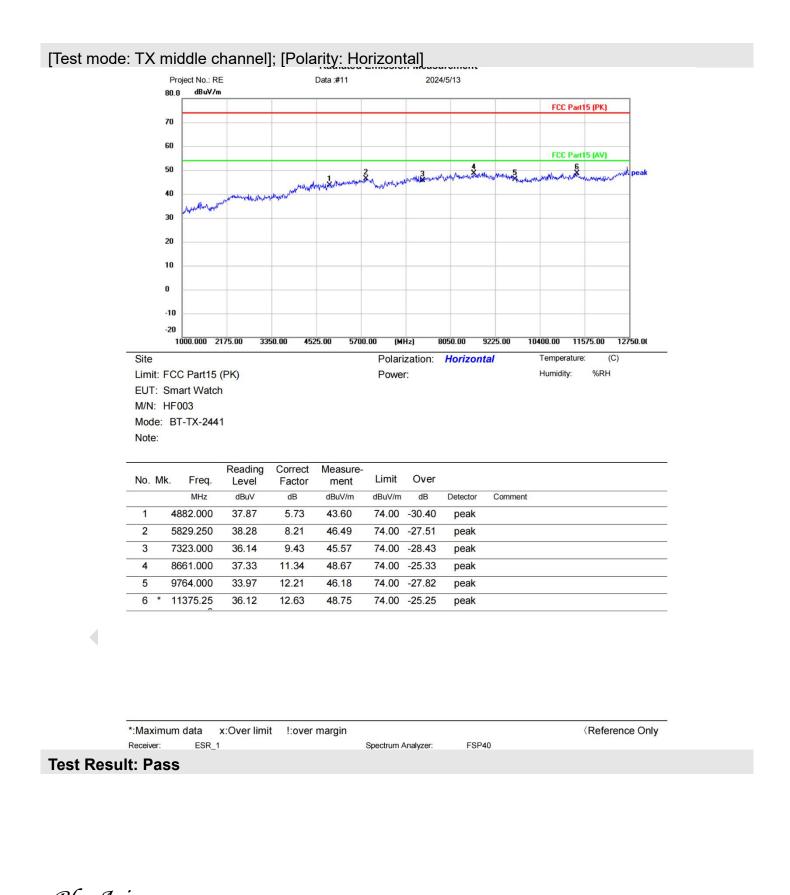


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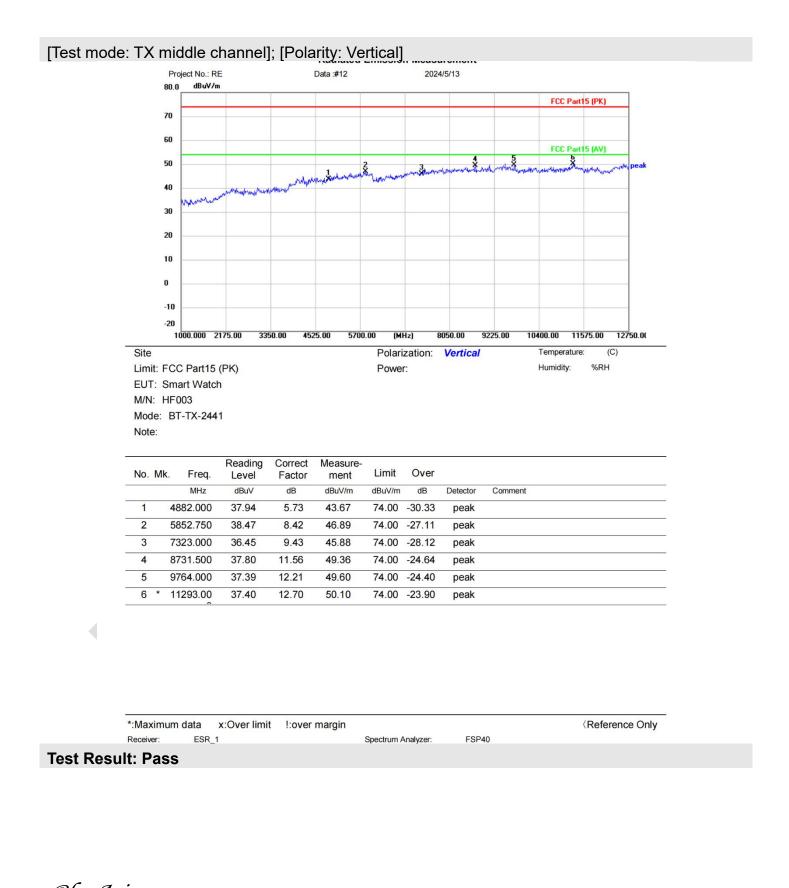


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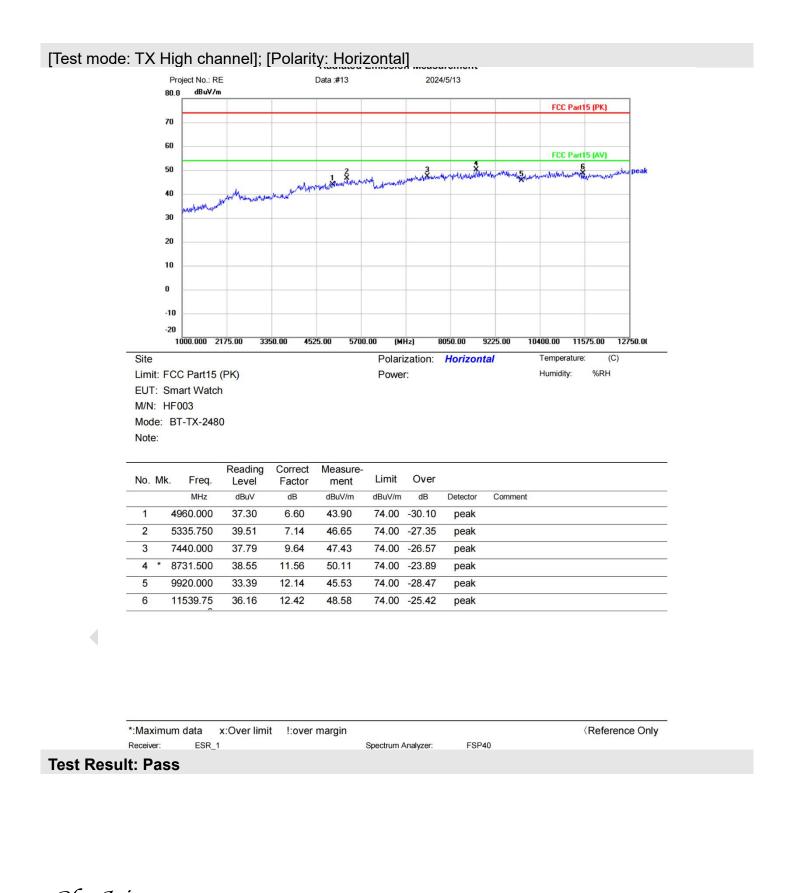


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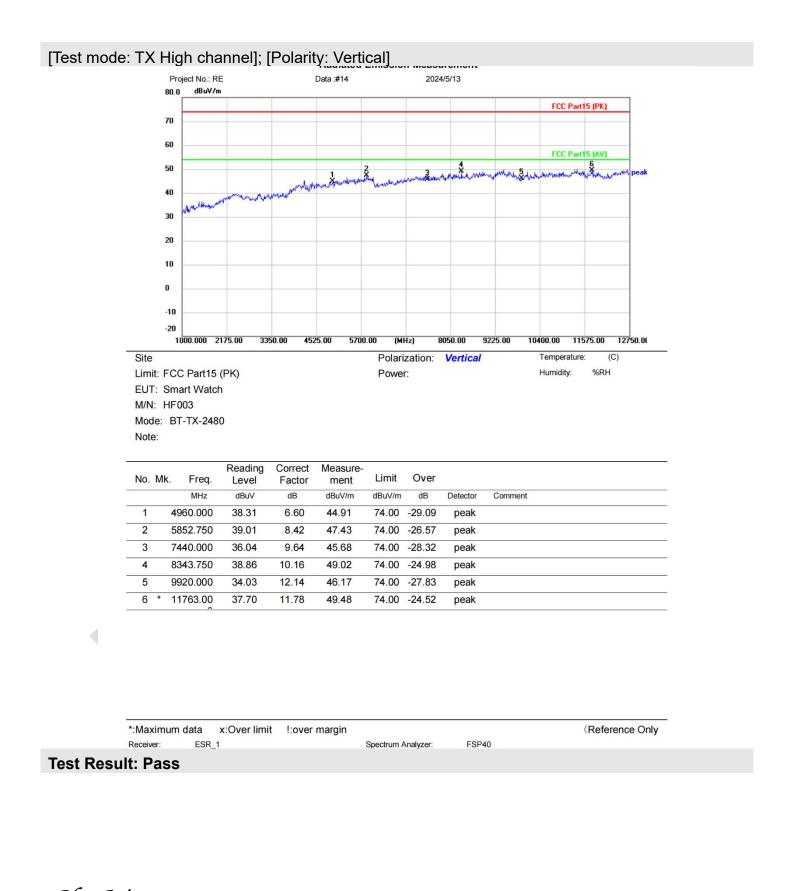
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6.11 Radiated emissions which fall in the restricted bands

Test Standard	47 CFR Part 15, Subpart C 15.247				
Test Method	ANSI C63.10 (2013) Section 6.10.5				
Test Mode (Pre-Scan)	ТХ				
Test Mode (Final Test)	ТХ				

6.11.1 Limit

Frequency(MHz)	Field	Measurement			
Trequency(iiii iz)	strength(microvolts/meter)	distance(meters)			
0.009-0.490	2400/F(kHz)	300			
0.490-1.705	24000/F(kHz)	30			
1.705-30.0	30	30			
30-88	100	3			
88-216	150	3			
216-960	200	3			
Above 960	500	3			

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

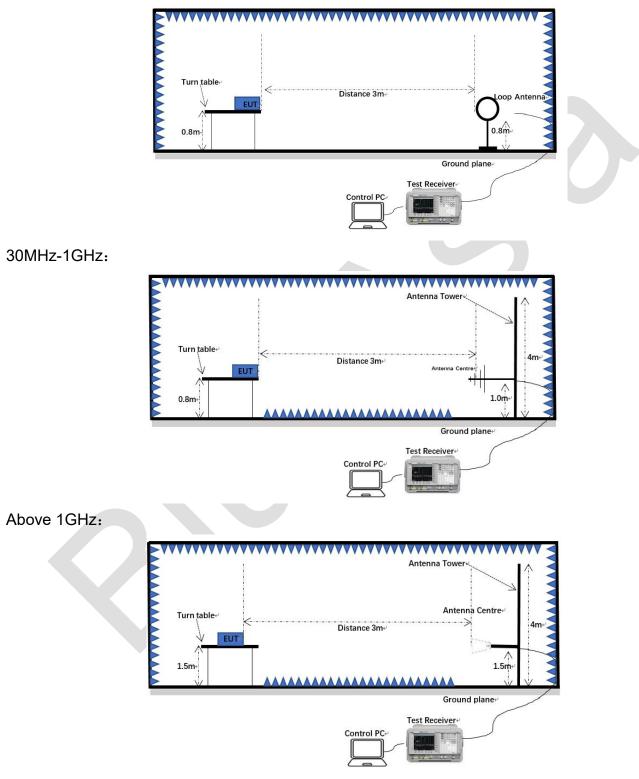
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6.11.2 Test setup

Below 1GHz:



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6.11.3 Procedure

- a) For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b) For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c) The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d) The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h) Test the EUT in the lowest channel, the middle channel, the highest channel.
- i) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j) Repeat above procedures until all frequencies measured was complete.

Note 1: Level (dBuV) = Reading (dBuV) + Factor (dB/m)

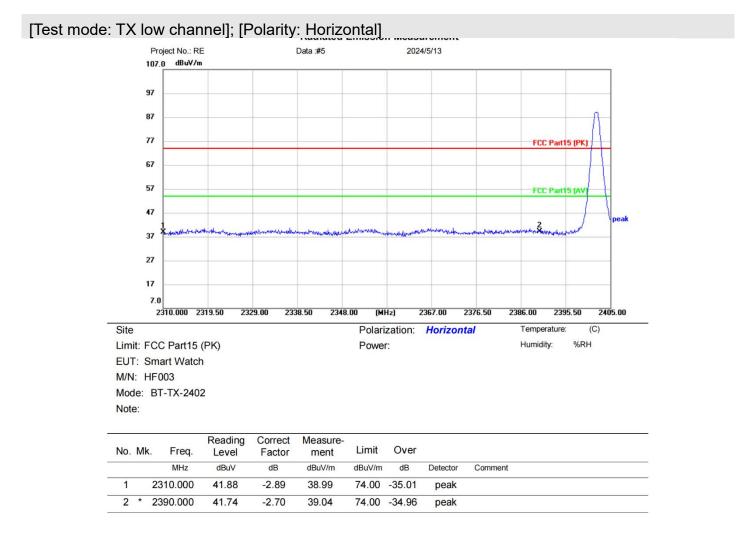
Note 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

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6.11.4 Test data



*:Maximum data x:Over limit !:over margin Receiver: ESR_1 Spectrum Analyzer: FSP40

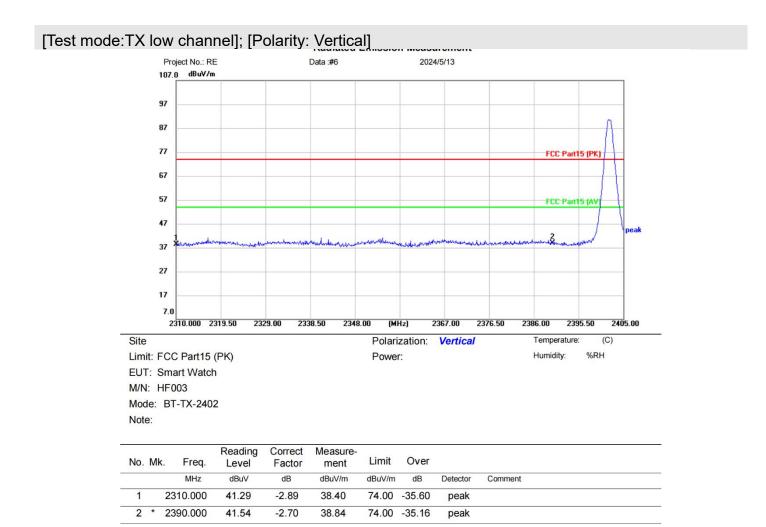
Reference Only

Test Result: Pass

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*:Maximum data x:Over limit !:over margin Receiver: ESR_1

Spectrum Analyzer:

FSP40

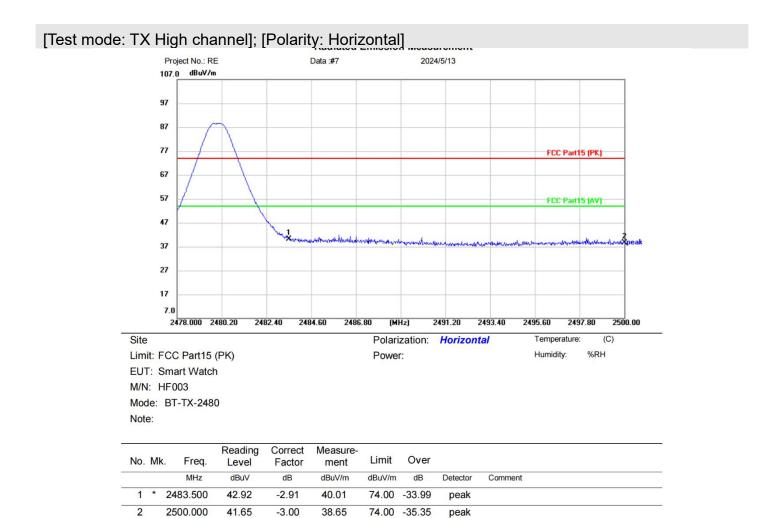
Reference Only

Test Result: Pass

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*:Maximum data x:Over limit !:over margin Receiver: ESR_1

Spectrum Analyzer:

FSP40

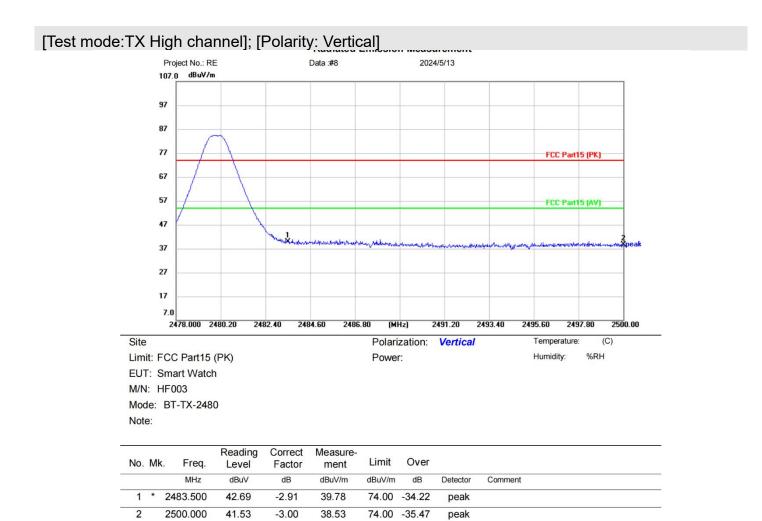
Reference Only

Test Result: Pass

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*:Maximum data x:Over limit !:over margin Receiver: ESR_1

Spectrum Analyzer:

FSP40

Reference Only

Test Result: Pass

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7 Appendix A

Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	0.96	21	Pass
NVNT	1-DH1	2441	Ant1	1.743	21	Pass
NVNT	1-DH1	2480	Ant1	1.884	21	Pass
NVNT	2-DH1	2402	Ant1	1.43	21	Pass
NVNT	2-DH1	2441	Ant1	2.214	21	Pass
NVNT	2-DH1	2480	Ant1	2.3	21	Pass
NVNT	3-DH1	2402	Ant1	2.003	21	Pass
NVNT	3-DH1	2441	Ant1	2.821	21	Pass
NVNT	3-DH1	2480	Ant1	2.902	21	Pass

Power NVNT 1-DH1 2402MHz Ant1



Power NVNT 1-DH1 2441MHz Ant1

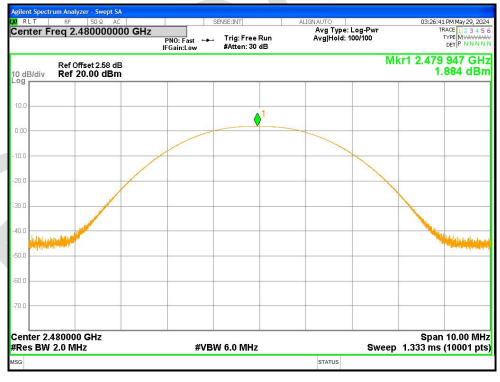
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Power NVNT 1-DH1 2480MHz Ant1



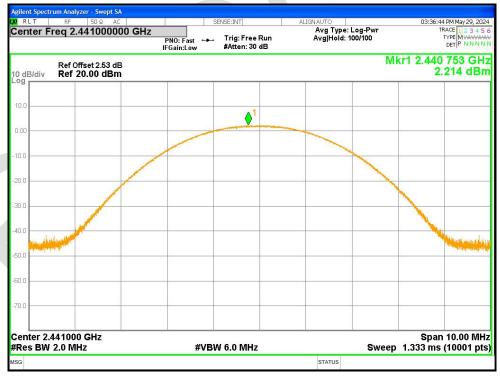
Power NVNT 2-DH1 2402MHz Ant1



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Power NVNT 2-DH1 2441MHz Ant1



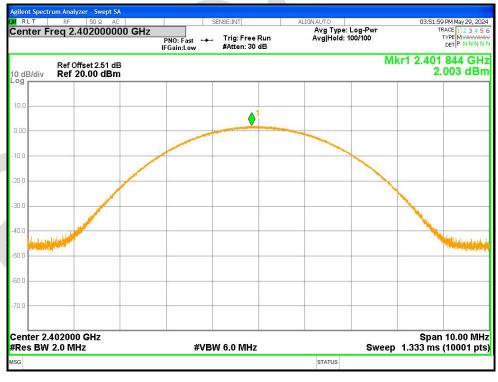
Power NVNT 2-DH1 2480MHz Ant1



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Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1



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Power NVNT 3-DH1 2480MHz Ant1





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-20dB Bandwidth

Condition	Mode	Frequency	Antenna	-20 dB Bandwidth	Limit -20 dB	Verdict
		(MHz)		(MHz)	Bandwidth (MHz)	
NVNT	1-DH1	2402	Ant1	0.959	N/A	Pass
NVNT	1-DH1	2441	Ant1	0.961	N/A	Pass
NVNT	1-DH1	2480	Ant1	0.96	N/A	Pass
NVNT	2-DH1	2402	Ant1	1.365	N/A	Pass
NVNT	2-DH1	2441	Ant1	1.365	N/A	Pass
NVNT	2-DH1	2480	Ant1	1.365	N/A	Pass
NVNT	3-DH1	2402	Ant1	1.346	N/A	Pass
NVNT	3-DH1	2441	Ant1	1.349	N/A	Pass
NVNT	3-DH1	2480	Ant1	1.346	N/A	Pass

-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1

04 RLT RF 50Ω AC Center Freq 2.402000000	I GHz #IFGain:Low	SENSE:INT Center Freq: 2.402000 Trig: Free Run #Atten: 30 dB	ALIGN AUTO 000 GHz Avg Hold: 300/300	03:23:33 PM May 29, 202 Radio Std: None Radio Device: BTS
Ref Offset 2.51 d 10 dB/div Ref 22.51 dBr	в	Maten. 50 de		Mkr3 2.402452 GH: -20.543 dBn
2.51				
-7.49		men		
-17.5	0ª		\sim 3	
-27.5	~			m
-37.5				m m
-47.5				
-57.5				
-67.5				
Center 2.402 GHz #Res BW 30 kHz		#VBW 100 k	Hz	Span 2 MH Sweep 2.667 m
Occupied Bandwidt	h	Total Power	7.38 dBm	
	90.83 kHz			
Transmit Freq Error	-27.284 kHz	OBW Power	99.00 %	
x dB Bandwidth	959.1 kHz	x dB	-20.00 dB	

-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1

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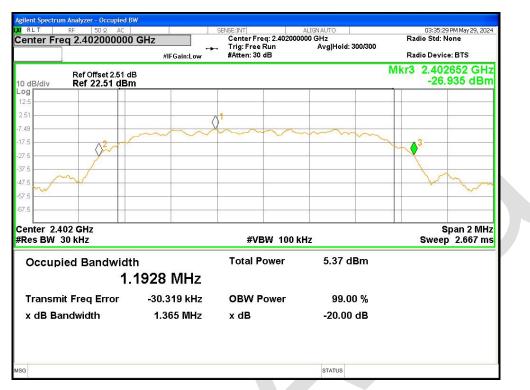
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



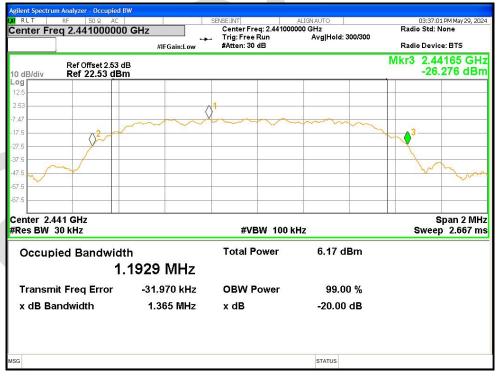
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



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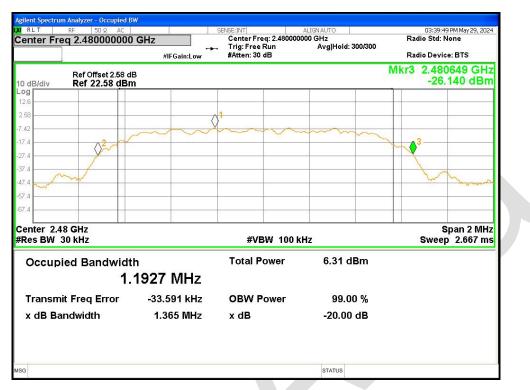
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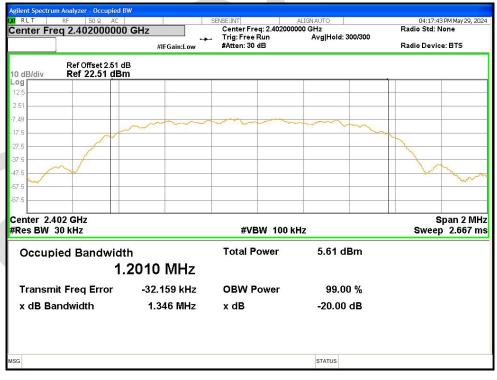
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1



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-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



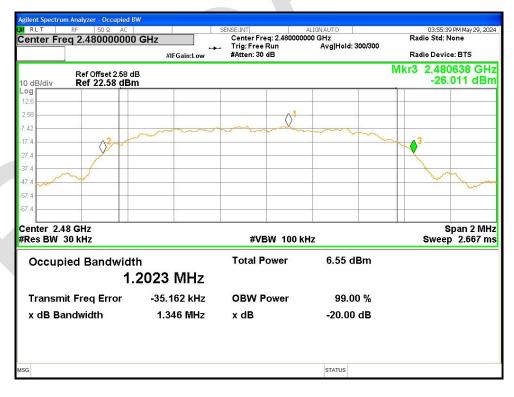
-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



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-20dB Bandwidth NVNT 3-DH1 2480MHz Ant1



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Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.88752
NVNT	1-DH1	2441	Ant1	0.89048
NVNT	1-DH1	2480	Ant1	0.88912
NVNT	2-DH1	2402	Ant1	1.1932
NVNT	2-DH1	2441	Ant1	1.1935
NVNT	2-DH1	2480	Ant1	1.1931
NVNT	3-DH1	2402	Ant1	1.2019
NVNT	3-DH1	2441	Ant1	1.2017
NVNT	3-DH1	2480	Ant1	1.2031

OBW NVNT 1-DH1 2402MHz Ant1

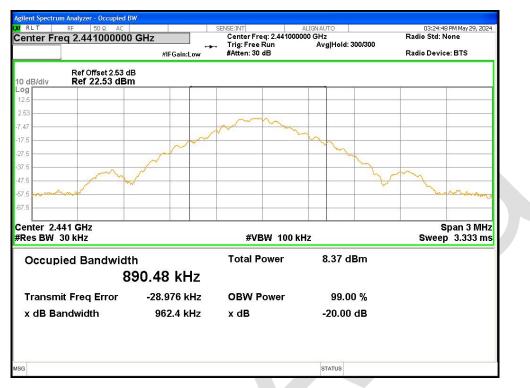


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OBW NVNT 1-DH1 2480MHz Ant1



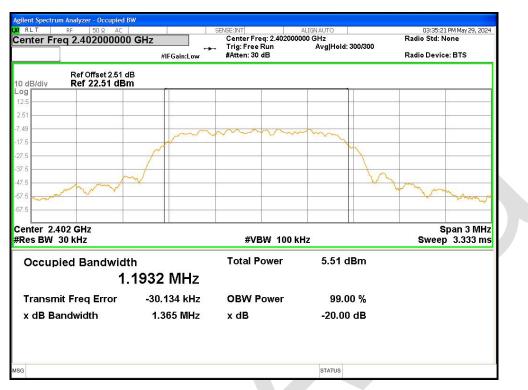
OBW NVNT 2-DH1 2402MHz Ant1

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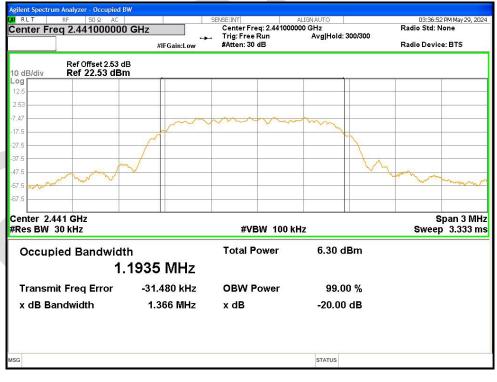
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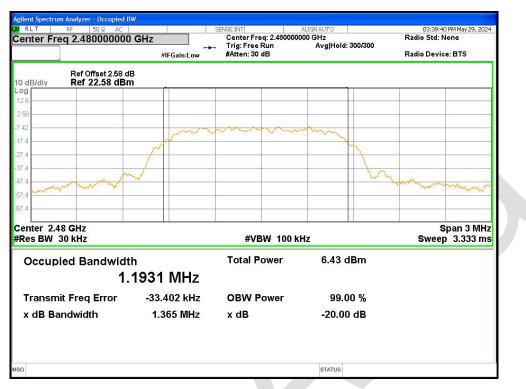
OBW NVNT 2-DH1 2441MHz Ant1



OBW NVNT 2-DH1 2480MHz Ant1



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OBW NVNT 3-DH1 2402MHz Ant1



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OBW NVNT 3-DH1 2480MHz Ant1



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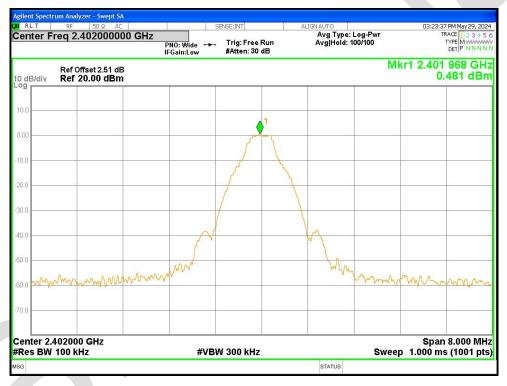


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Band Edge

Condition	Mode	Frequency	Antenna	Hopping	Max Value	Limit	Verdict
		(MHz)		Mode	(dBc)	(dBc)	
NVNT	1-DH1	2402	Ant1	No-Hopping	-55.83	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-55.35	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-52.33	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-53.56	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-52.79	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-54.08	-20	Pass

Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



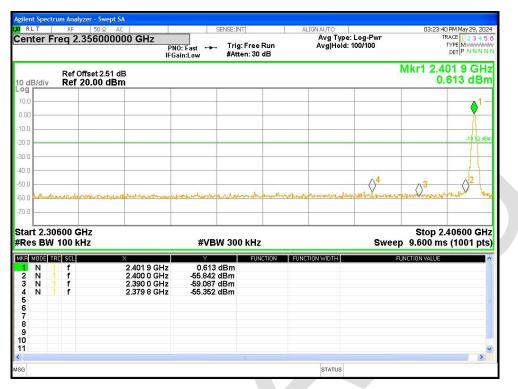
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission

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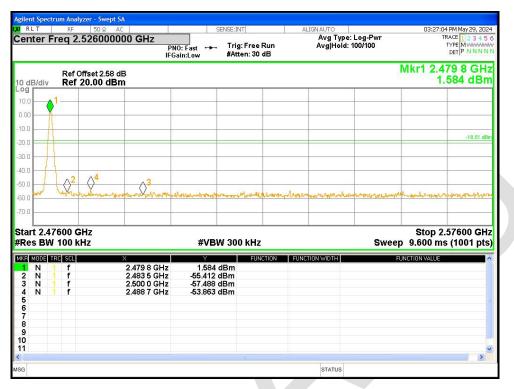
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



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Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission

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