











10. 20 dB Bandwidth

10.1 Block Diagram Of Test Setup



10.2 Limit

N/A

10.3 Test procedure

- 1. Set RBW = 30kHz.
- 2. Set the video bandwidth (VBW) \ge 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.

7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

10.4 Test Result

| Condition | Mode | Frequency (MHz) | -20 dB Bandwidth (MHz) | Verdict |
|-----------|-------|-----------------|---------------------------|---------|
| NVNT | 1-DH1 | 2402 | 1.032 | Pass |
| NVNT | 1-DH1 | 2441 | 1.014 | Pass |
| NVNT | 1-DH1 | 2480 | 1.014 | Pass |
| NVNT | 2-DH1 | 2402 | 1.265 | Pass |
| NVNT | 2-DH1 | 2441 | 1.294 | Pass |
| NVNT | 2-DH1 | 2480 | 1.284 | Pass |
| NVNT | 3-DH1 | 2402 | 1.288 | Pass |
| NVNT | 3-DH1 | 2441 | 1.276 | Pass |
| NVNT | 3-DH1 | 2480 | 1.277 | Pass |

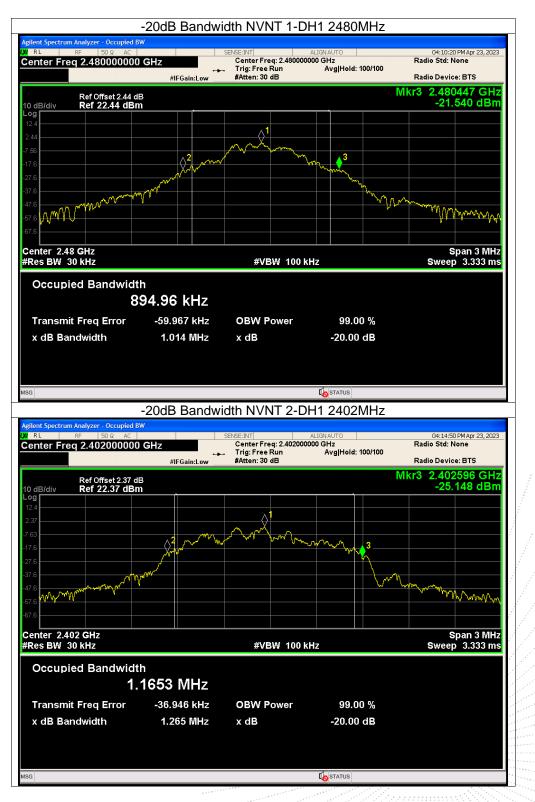
Edition: A.5

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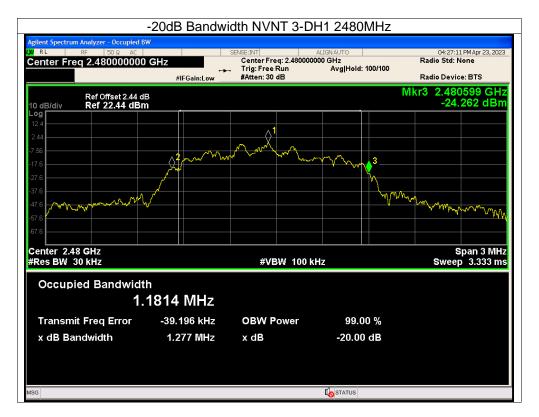
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11. Maximum Peak Output Power

11.1 Block Diagram Of Test Setup



11.2 Limit

| FCC Part15 (15.247) , Subpart C | | | | | | |
|---------------------------------|---|---------------------|-------------|------|--|--|
| Section | Test Item Limit Frequency Range (MHz) Resul | | | | | |
| 15.247(b)(1) | Peak Output Power | 0.125 watt or 21dBm | 2400-2483.5 | PASS | | |

11.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2. Set the spectrum analyzer: RBW = 2MHz. VBW = 6MHz. Sweep = auto; Detector Function = Peak.

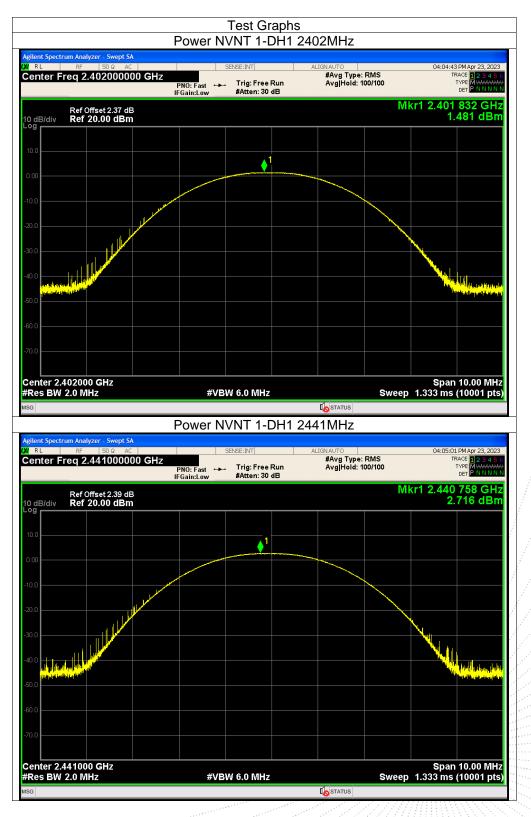
3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

11.4 Test Result

| Condition | Mode | Frequency (MHz) | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|-------|--------------------|--------------------------|-------------|---------|
| NVNT | 1-DH1 | 2402 | 1.48 | 21 | Pass |
| NVNT | 1-DH1 | 2441 | 2.72 | 21 | Pass |
| NVNT | 1-DH1 | 2480 | 1.46 | 21 | Pass |
| NVNT | 2-DH1 | 2402 | 1.36 | 21 | Pass |
| NVNT | 2-DH1 | 2441 | 2.62 | 21 | Pass |
| NVNT | 2-DH1 | 2480 | 1.26 | 21 | Pass |
| NVNT | 3-DH1 | 2402 | 1.36 | 21 | Pass |
| NVNT | 3-DH1 | 2441 | 2.65 | 21 | Pass |
| NVNT | 3-DH1 | 2480 | 1.27 | 21 | Pass |



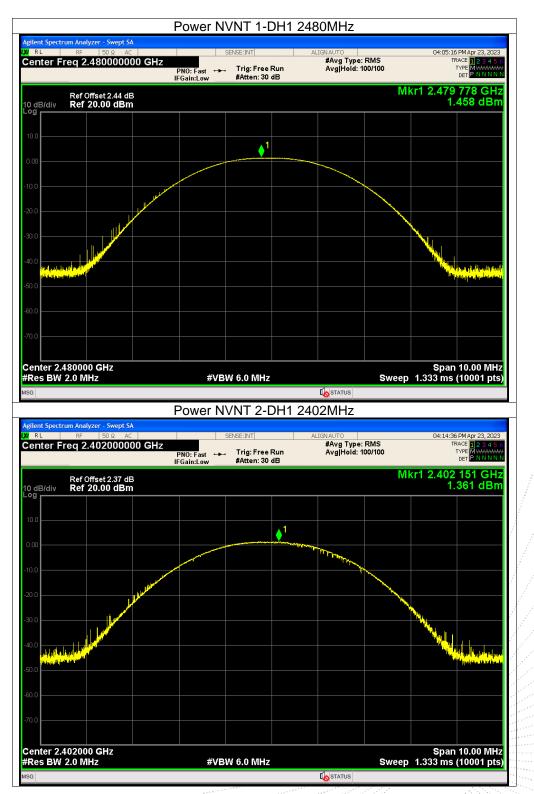






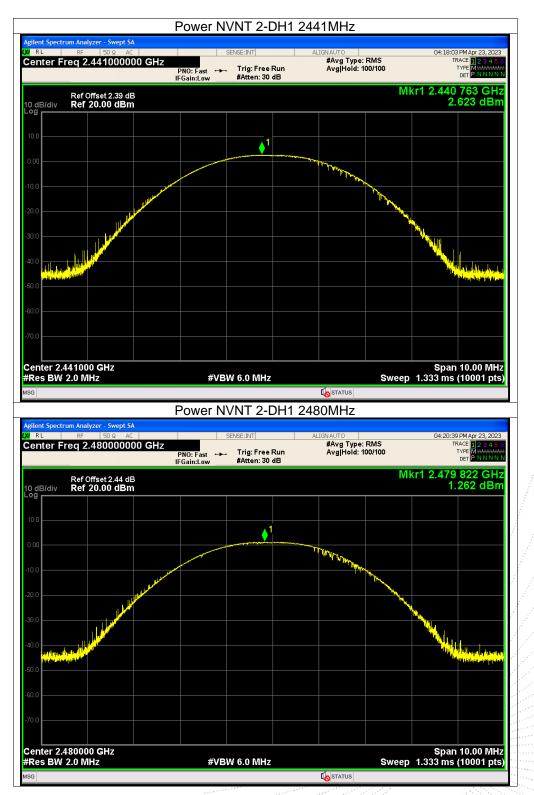
No.: BCTC/RF-EMC-007





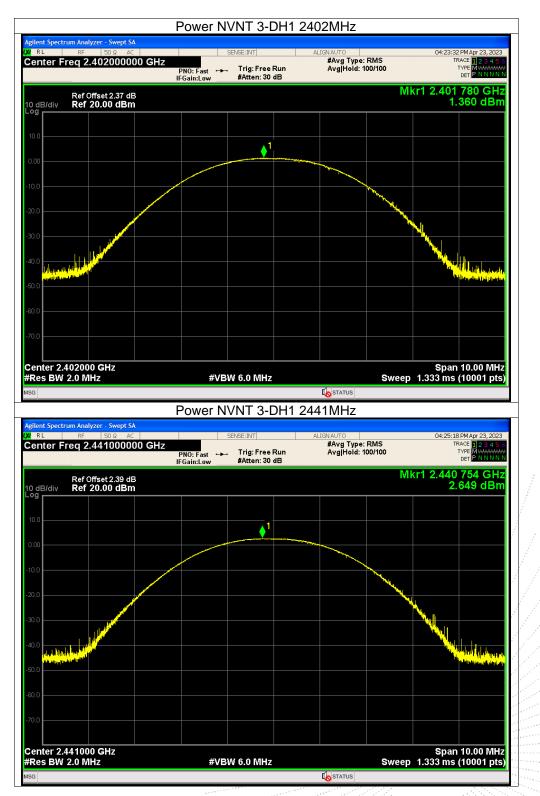






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No.: BCTC/RF-EMC-007

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12. Hopping Channel Separation

12.1 Block Diagram Of Test Setup



12.2 Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 0.125W.

12.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2. Set the spectrum analyzer: RBW = 30kHz. VBW = 100kHz , Span = 2.0MHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.

3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

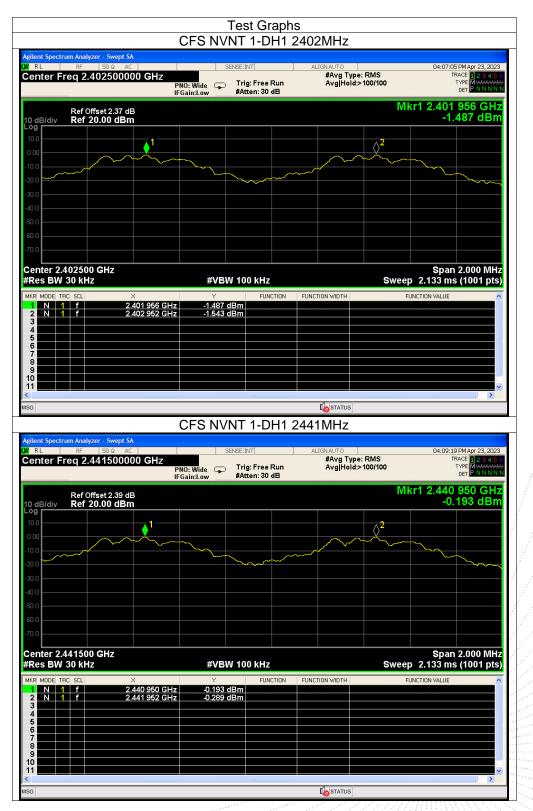
| Condition | Mode | Hopping Freq1 (MHz) | Hopping Freq2 (MHz) | HFS (MHz) | Limit (MHz) | Verdict |
|-----------|-------|------------------------|------------------------|-----------|-------------|---------|
| NVNT | 1-DH1 | 2401.956 | 2402.952 | 0.996 | 0.688 | Pass |
| NVNT | 1-DH1 | 2440.95 | 2441.952 | 1.002 | 0.676 | Pass |
| NVNT | 1-DH1 | 2478.946 | 2479.944 | 0.998 | 0.676 | Pass |
| NVNT | 2-DH1 | 2401.954 | 2402.956 | 1.002 | 0.843 | Pass |
| NVNT | 2-DH1 | 2440.95 | 2441.95 | 1 | 0.863 | Pass |
| NVNT | 2-DH1 | 2478.942 | 2479.944 | 1.002 | 0.856 | Pass |
| NVNT | 3-DH1 | 2401.956 | 2402.954 | 0.998 | 0.859 | Pass |
| NVNT | 3-DH1 | 2440.95 | 2441.95 | 1 | 0.851 | Pass |
| NVNT | 3-DH1 | 2478.942 | 2479.944 | 1.002 | 0.851 | Pass |

12.4 Test Result

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Edition: A.5

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| nter Freq 2.47 | 9500000 GHz | | Free Run n: 30 dB | ALIGNAUTO #Avg Type Avg Hold: | e: RMS >100/100 | 1 | 9 PM Apr 23, 2023 RACE 1 2 3 4 5 TYPE MMMMM DET P NNNN |
|--|---|---|----------------------|-------------------------------------|--------------------|-------------------|--|
| Ref Offse | | ain:Low #Atte | in: 50 dB | | N | 1kr1 2.478 | 946 GH2 |
| dB/div Ref 20.0 | 00 dBm | | | | | -1. | .454 dBm |
| 00 | 1 | | | | \ 2 | | |
| | | <u> </u> | | | | | |
| .0 | | | | | | | |
| .0 | | | | | | | |
| .0 | | | | | | | |
| .0 | | | | | | | |
| enter 2.479500 G | <u>Цэ</u> | | | | | Snar | 1 2.000 MHz |
| tes BW 30 kHz | 112 | #VBW 100 | kHz | | Swee | ep 2.133 m | |
| R MODE TRC SCL | × 2.478 946 GHz | ۲ -1.454 dBm | FUNCTION | FUNCTION WIDTH | | FUNCTION VALUE | |
| N 1 f | 2.479 944 GHz | -1.478 dBm | | | | | |
| | | | | | | | |
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| | | | | I o status | | | |
| | | CFS NVNT 2 | 2-DH1 24 | | | | |
| ent Spectrum Analyzer RL RF 1 | - <mark>Swept SA</mark> 50 Ω AC | CFS NVNT 2 SENSE:INT | | 402MHz | e: RMS | 04:16:2 | 8 PM Apr 23, 2023 |
| ent Spectrum Analyzer RL RF 1 | - Swept SA 50 Ω AC 2500000 GHz PNC | SENSE:INT | | 402MHz | e: RMS >100/100 | 04:16:2 1 | |
| ent Spectrum Analyzer RL RF Inter Freq 2.403 Ref Offse | - Swept SA 50 Q AC 25000000 GHz PRC IFG: t 2.37 dB | SENSE:INT | Free Run | 402MHz ALIGNAUTO #Avg Type | >100/100 | 1kr1 2.401 | 8 PM Apr 23, 2023 RACE 1 2 3 4 5 TYPE MWWWWW DET P N N N N 954 GHz |
| ent Spectrum Analyzer RL RF 1 mter Freq 2.402 Ref Offse dB/div Ref 20.1 | - Swept SA 50 Q AC 25000000 GHz PRC IFG: t 2.37 dB | SENSE:INT | Free Run | 402MHz ALIGNAUTO #Avg Type | >100/100 | 1kr1 2.401 | 8 PM Apr 23, 2023 RACE 1 2 3 4 5 TYPE MMAAAAAA DET P. N.N.N. |
| ent Spectrum Analyzer RL RE I enter Freq 2.403 Ref Offse dB/div Ref 20.4 10 | - Swept SA 50 Q AC 25000000 GHz PRC IFG: t 2.37 dB | SENSE:INT | Free Run | 402MHz ALIGNAUTO #Avg Type | >100/100 | 1kr1 2.401 | 8 PM Apr 23, 2023 RACE 1 2 3 4 5 TYPE MWWWWW DET P N N N N 954 GHz |
| ent Spectrum Analyzer RL RF 1 enter Freq 2.403 Ref Offse dB/div Ref 20.0 | - Swept SA 50 Q AC 25000000 GHz PRC IFG: t 2.37 dB | SENSE:INT | Free Run | 402MHz ALIGNAUTO #Avg Type | >100/100 | 1kr1 2.401 | 8 PM Apr 23, 2023 RACE 1 2 3 4 5 TYPE MWWWWW DET P N N N N 954 GHz |
| ent Spectrum Analyzer RL RF 1 ponter Freq 2.403 Ref Offse dB/div Ref 20.4 0 0 0 0 0 0 0 0 0 0 0 0 0 | - Swept SA 50 Q AC 25000000 GHz PRC IFG: t 2.37 dB | SENSE:INT | Free Run | 402MHz ALIGNAUTO #Avg Type | >100/100 | 1kr1 2.401 | 8 PM Apr 23, 2023 RACE 1 2 3 4 5 TYPE MWWWWW DET P N N N N 954 GHz |
| ent Spectrum Analyzer RL RF 1 ponter Freq 2.403 Ref Offse dB/div Ref 20.4 0 0 0 0 0 0 0 0 0 0 0 0 0 | - Swept SA 50 Q AC 25000000 GHz PRC IFG: t 2.37 dB | SENSE:INT | Free Run | 402MHz ALIGNAUTO #Avg Type | >100/100 | 1kr1 2.401 | 8 PM Apr 23, 2023 RACE 1 2 3 4 5 TYPE MWWWWW DET P N N N N 954 GHz |
| ent Spectrum Analyzer RL RF 1 ponter Freq 2.403 Ref Offse dB/div Ref 20.4 0 0 0 0 0 0 0 0 0 0 0 0 0 | - Swept SA 50 Q AC 25000000 GHz PRC IFG: t 2.37 dB | SENSE:INT | Free Run | 402MHz ALIGNAUTO #Avg Type | >100/100 | 1kr1 2.401 | 8 PM Apr 23, 2023 RACE 1 2 3 4 5 TYPE MWWWWW DET P N N N N 954 GHz |
| ent Spectrum Analyzer RL RF P enter Freq 2.402 B/div Ref 20.4 9 0 0 0 0 0 0 0 0 0 0 0 0 0 | - Swept SA 50 Q AC 25000000 GHz PRC IFG: t 2.37 dB | SENSE:INT | Free Run | 402MHz ALIGNAUTO #Avg Type | >100/100 | 1kr1 2.401 | 8 PM Apr 23, 2023 RACE 1 2 3 4 5 TYPE MWWWWW DET P N N N N 954 GHz |
| ent Spectrum Analyzer RL RF 1 porter Freq 2.407 Ref Offse dB/div Ref 20.4 0 0 0 0 0 0 0 0 0 0 0 0 0 | - Swept SA 50 Q AC 25000000 GHz PRC IFG: t 2.37 dB | SENSE:INT | Free Run | 402MHz ALIGNAUTO #Avg Type | >100/100 | 1kr1 2.401 | 8 PM Apr 23, 2023 RACE 1 2 3 4 5 TYPE MWWWWW DET P N N N N 954 GHz |
| ent Spectrum Analyzer RL RF 12 enter Freq 2.402 Ref Offse dB/div Ref 20.1 Ref 20. | Swept SA 50 Q AC PROVIDENT 25000000 GHz PNG IFG 12.37 dB 20 dBm | SENSE:INT | Free Run n: 30 dB | 402MHz ALIGNAUTO #Avg Type | >100/100 | 1kr1 2.401 -1. | 8PMApr 23, 2023 RACE 12 3 4 5 540 dBm 954 GH2 540 dBm |
| ent Spectrum Analyzer RL RF 1 mter Freq 2.402 Ref Offse B B C C C C C C C C C C C C C | Swept SA 50 Q AC 2500000 GHz PNC IFG t 2.37 dB 00 dBm 1 1 Hz | SENSE:INT D: Wide Trig: ain:Low #Atte | Free Run n: 30 dB | 402MHz ALIGNAUTO #Avg Type | >100/100 | 1kr1 2.401 -1. | 8PMApr 23, 2023 RACE 12 3 4 5 540 dBm 954 GH2 540 dBm |
| ent Spectrum Analyzer RL RF 12 enter Freq 2.402 Black Ref 20.1 Ref 20.1 | Swept SA 50 Q AC PRO PNC IFG: t2.37 dB D0 dBm 1 1 1 1 1 1 1 1 1 1 1 1 1 | SEVSE:INT D: Wide Trig: ain:Low #Atte | Free Run n: 30 dB | | >100/100 | 1kr1 2.401 -1. | 8PMApr 23, 2023 RACE 12 3 4 5 540 dBm 954 GH2 540 dBm |
| ent Spectrum Analyzer RL RF 11 enter Freq 2.402 Barter Freq 2.402 Barter 2.402500 G barter 2.402500 G center 2.402500 G tes BW 30 kHz R MOE TRC Scl N 1 f | Swept SA 50.2 AC 2500000 GHz PNC IFG: t2.37 dB 00 dBm 1 1 1 1 Hz 2.401 954 GHz | SENSE:INT D: Wide Trig: ain:Low #Atte | Free Run n: 30 dB | | >100/100 | 1kr1 2.401 -1. | 8PMApr 23, 2023 RACE 12 3 4 5 540 dBm 954 GH2 540 dBm |
| ent Spectrum Analyzer RL RF 1 ponter Freq 2.402 Ref Offse dB/div Ref 20.4 Ponter Z.402500 G center 2.402500 G tes BW 30 KHz R MODE TRC Scl. N 1 f | Swept SA 50.2 AC 2500000 GHz PNC IFG: t2.37 dB 00 dBm 1 1 1 1 Hz 2.401 954 GHz | SENSE:INT D: Wide Trig: ain:Low #Atte | Free Run n: 30 dB | | >100/100 | 1kr1 2.401 -1. | 8PMApr 23, 2023 RACE 12 3 4 5 540 dBm 954 GH2 540 dBm |



| | Swept SA 0 Ω AC | SENSE:INT | ALIGNAUTO #Avg Type: RMS | 04:19:05 PM Apr 23, 202: |
|--|---|---|---|--|
| enter Freq 2.441 | PNC | D: Wide ain:Low Trig: Free Run #Atten: 30 dB | Avg Hold:>100/100 | TRACE 12345 TYPE MWWWW DET PNNNN |
| Ref Offset dB/div Ref 20.0 | 2.39 dB 0 dBm | | М | kr1 2.440 950 GH: -0.240 dBn |
| 9 1.0 | 1 | | A2 | |
| | | | \sim | |
| | | | | |
| .0 | | | | |
| .0 | | | | |
| 1.0 | | | | |
| .0 | | | | |
| enter 2.441500 GH | Hz | | | Span 2.000 MH |
| Res BW 30 kHz | X | #VBW 100 kHz | | p 2.133 ms (1001 pts |
| N 1 f | 2.440 950 GHz 2.441 950 GHz | -0.240 dBm -0.266 dBm | | UNCTION VALUE |
| | | | | |
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| 3 | | | STATUS | |
| | C | CES NVNT 2-DH1 | 2480MHz | |
| lent Spectrum Analyzer - | Swept SA | CFS NVNT 2-DH1 | 2480MHz | |
| lent Spectrum Analyzer - | Swept SA DΩ AC 500000 GHz | SENSE:INT | 2480MHz | 04:21:16 PM Apr 23, 2023 TRACE 12.3 45 |
| ent Spectrum Analyzer - RL RF 50 | Swept SA DΩ AC 500000 GHz PNC | | 2480MHz ALIGN AUTO #Avg Type: RMS Avg Hold>100/100 | 04:21:16 PM Apr 23, 202 TRACE 2 3 4 5 TYPE MANNIN DET P NNNN |
| lent Spectrum Analyzer - RL RF Si enter Freq 2.479 Ref Offset | Swept SA D Ω AC 5000000 GHz PRC IFG | SENSE:INT | 2480MHz ALIGN AUTO #Avg Type: RMS Avg Hold>100/100 | |
| RL Spectrum Analyzer - RL RF S Inter Freq 2.479 Ref Offset dB/div Ref 20.0 9 | Swept SA D Ω AC 5000000 GHz PRC IFG | SENSE:INT | 2480MHz | 04:21:16 PMApr 23, 202: TRACE 10.23 45 TYPE MANNAN DET P NINNI Kr1 2.478 942 GH: |
| RL Spectrum Analyzer - RL RF S Inter Freq 2.479 Ref Offset dB/div Ref 20.0 | Swept SA D Ω AC 5000000 GHz PRC IFG | SENSE:INT | 2480MHz ALIGN AUTO #Avg Type: RMS Avg Hold>100/100 | 04:21:16 PMApr 23, 202: TRACE 10.23 45 TYPE MANNAN DET P NINNI Kr1 2.478 942 GH: |
| RL Spectrum Analyzer - Si RL RF Si enter Freq 2.479 Ref Offset dB/div Ref 20.0 | Swept SA D Ω AC 5000000 GHz PRC IFG | SENSE:INT | 2480MHz | 04:21:16 PMApr 23, 202: TRACE 10.23 45 TYPE MANNAN DET P NINNI Kr1 2.478 942 GH: |
| RL Spectrum Analyzer - Si RL RF Si enter Freq 2.479 Ref Offset dB/div Ref 20.0 | Swept SA D Ω AC 5000000 GHz PRC IFG | SENSE:INT | 2480MHz | 04:21:16 PMApr 23, 202: TRACE 10.23 45 TYPE MANNAN DET P NINNI Kr1 2.478 942 GH: |
| RL Pectrum Analyzer RL RF S enter Freq 2.479 Ref Offset dB/div Ref 20.0 | Swept SA D Ω AC 5000000 GHz PRC IFG | SENSE:INT | 2480MHz | 04:21:16 PMApr 23, 202: TRACE 10.23 45 TYPE MANNAN DET P NINNI Kr1 2.478 942 GH: |
| RL Spectrum Analyzer - Si RL RF Si enter Freq 2.479 Ref Offset dB/div Ref 20.0 | Swept SA D Ω AC 5000000 GHz PRC IFG | SENSE:INT | 2480MHz | 04:21:16 PMApr 23, 202: TRACE 10.23 45 TYPE MANNAN DET P NINNI Kr1 2.478 942 GH: |
| RL Spectrum Analyzer - Si RL RF Si Inter Freq 2.479 Ref Offset dB/div Ref 20.0 | Swept SA D Ω AC 5000000 GHz PRC IFG | SENSE:INT | 2480MHz | 04:21:16 PMApr 23, 202: TRACE 10.23 45 TYPE MANNAN DET P NINNI Kr1 2.478 942 GH: |
| Ref Offset | Swept SA D2 AC PNC FFG 2.2.44 dB 0 dBm 1 1 1 1 1 1 1 1 1 1 1 1 1 | SENSE:INT | 2480MHz | D4:21:16 PM Apr 23, 2023 TRACE 12:3 4 S TYPE MANNAN PET P NINNI Kr1 2.478 942 GH: -1.621 dBn |
| RL PRE S RL RF 2.479 Ref Offset dB/div Ref 20.0 Ref 000000000000000000000000000000000000 | Swept SA D2 AC PNC FFG 2.2.44 dB 0 dBm 1 1 1 1 1 1 1 1 1 1 1 1 1 | SENSE:INT | 2480MHz | 04:21:16 PMApr 23, 202: TRACE 10.23 45 TYPE MANNAN DET P NINNI Kr1 2.478 942 GH: |
| ent Spectrum Analyzer - S RL RF S inter Freq 2.479 Ref Offset dB/div Ref 20.0 G G C C C C C C C C C C C C C | Swept SA D(2 AC PNC IFG: 2.44 dB 0 dBm 1 1 1 2.478 942 GHz | SENSE:INT D: Wide ain:Low Trig: Free Run #Atten: 30 dB | 2480MHz | 04:21:16 PMApr 23, 202 TRACE 2 3 4 5 TYPE MUMUMU DET P. NINNI Kr1 2.478 942 GH: -1.621 dBn |
| Ient Spectrum Analyzer - RL RF Si enter Freq 2.479 Ref Offset Si B/div Ref 20.0 Si B/div Ref 20.0 Si Image: Simple state st | Swept SA DO AC 500000 GHz PNC IFG: 2.44 dB 0 dBm 1 1 1 1 1 1 | SENSE:INT D: Wide ain:Low Trig: Free Run #Atten: 30 dB | 2480MHz ALIGNAUTO #Avg Type: RMS Avg Hold>100/100 M | 04:21:16 PMApr 23, 2023 TRACE D 23 4 5 TVFE D 23 4 5 TVFE D 2010 Kr1 2.478 942 GH: -1.621 dBn -1.621 dBn Span 2.000 MH: p 2.133 ms (1001 pts |
| RL Spectrum Analyzer - Si RL RF 2.479 Ref Offset dB/div Ref 20.0 G C C C C C C C C C C C C C | Swept SA D(2 AC PNC IFG: 2.44 dB 0 dBm 1 1 1 2.478 942 GHz | J: Wide ain:Low Trig: Free Run #Atten: 30 dB | 2480MHz ALIGNAUTO #Avg Type: RMS Avg Hold>100/100 M | 04:21:16 PMApr 23, 2023 TRACE D 23 4 5 TVFE D 23 4 5 TVFE D 2010 Kr1 2.478 942 GH: -1.621 dBn -1.621 dBn Span 2.000 MH: p 2.133 ms (1001 pts |
| Ient Spectrum Analyzer - RL RF 5 enter Freq 2.479 Ref Offset dB/div Ref 20.0 Ref 20.0 Ref 0 Ref | Swept SA D(2 AC PNC IFG: 2.44 dB 0 dBm 1 1 1 2.478 942 GHz | J: Wide ain:Low Trig: Free Run #Atten: 30 dB | 2480MHz ALIGNAUTO #Avg Type: RMS Avg Hold>100/100 M | 04:21:16 PMApr 23, 2023 TRACE D 23 4 5 TVFE D 23 4 5 TVFE D 2010 Kr1 2.478 942 GH: -1.621 dBn -1.621 dBn Span 2.000 MH: p 2.133 ms (1001 pts |



| lent Spectrum Analyzer | | | | | | | |
|---|---|---|---------------------------|--|----------------|---|---|
| RL RF enter Freg 2.40 | 50 Ω AC 2500000 GHz | SENSE:I | | ALIGNAUTO #Avg Type | | 04:24:0) TF | 7 PM Apr 23, 2023 RACE <mark>1 2 3 4 5 6</mark> TYPE MWWWWW |
| | | | g: Free Run ten: 30 dB | Avg Hold: | >100/100 | | |
| | et 2.37 dB | | | | M | (r1 2.401 | |
| dB/div Ref 20. | 00 dBm | | | | | -1. | 588 dBm |
| 0.0 | 1 | | | | ∂ 2 | | |
| | \sim | \wedge | | $\sim \wedge$ | ~~~~ | | |
| 1.0 | | | | | | | $\sim\sim$ |
|).0 | | | | | | | |
| 1.0 | | | | | | | |
| 1.0 | | | | | | | |
| 1.0 1.0 | | | | | | | |
| | | | | | | | |
| enter 2.402500 G Res BW 30 kHz | HZ | #VBW 10 | 0 kHz | | Sweep | span 2.133 ms | 2.000 MHz (1001 pts) |
| R MODE TRC SCL | X | Y | FUNCTION | FUNCTION WIDTH | | UNCTION VALUE | ^ |
| N 1 f 2 N 1 f | 2.401 956 GHz 2.402 954 GHz | -1.588 dBm -1.577 dBm | | | | | |
| | | | | | | | |
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| | | | | K STATUS | | | |
| | | CFS NVNT | 3-DH1 2 | | | | |
| | | | | 2441MHz | | | |
| RL RF | 50 Ω AC | SENSE:I | NT | ALIGNAUTO #Avg Type | | 04:26:04 Tf | 1 PM Apr 23, 2023 RACE 12 3 4 5 6 |
| RL RF | 50 Ω AC 1500000 GHz | SENSE:I | | 2441MHz | | 04:26:04 TF | 4 PM Apr 23, 2023 RACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N |
| RL RF enter Freq 2.44 Ref Offse | 50 Ω AC 1500000 GHz et 2.39 dB | SENSE:I | NT g: Free Run | ALIGNAUTO #Avg Type | >100/100 | ۳ ^۲ ۲۲ (r1 2.44 0 | |
| RL RF enter Freq 2.44 Ref Offse dB(div Ref 20 | 50 Ω AC 1500000 GHz | SENSE:I | NT g: Free Run | ALIGNAUTO #Avg Type | >100/100 | ۳ ^۲ ۲۲ (r1 2.44 0 | RACE 123456 TYPE MWWWWW DET PNNNN |
| RL RF enter Freq 2.44 Ref Offse dB/div Ref 20. | 50 Ω AC 1500000 GHz et 2.39 dB | SENSE:I | NT g: Free Run | ALIGNAUTO #Avg Type | >100/100 | ۳ ^۲ ۲۲ (r1 2.44 0 | |
| RL RF enter Freq 2.44 Ref Offse dB/div Ref 20. | 50 Ω AC 1500000 GHz et 2.39 dB | SENSE:I | NT g: Free Run | ALIGNAUTO #Avg Type | >100/100 | ۳ ^۲ ۲۲ (r1 2.44 0 | |
| RL RF enter Freq 2.44 Ref Offse dB/div Ref 20. | 50 Ω AC 1500000 GHz et 2.39 dB | SENSE:I | NT g: Free Run | ALIGNAUTO #Avg Type | >100/100 | ۳ ^۲ ۲۲ (r1 2.44 0 | |
| RL RF enter Freq 2.44 dB/div Ref 20. | 50 Ω AC 1500000 GHz et 2.39 dB | SENSE:I | NT g: Free Run | ALIGNAUTO #Avg Type | >100/100 | ۳ ^۲ ۲۲ (r1 2.44 0 | |
| RL RF enter Freq 2.44 Ref Offse dB/div Ref 20. | 50 Ω AC 1500000 GHz et 2.39 dB | SENSE:I | NT g: Free Run | ALIGNAUTO #Avg Type | >100/100 | ۳ ^۲ ۲۲ (r1 2.44 0 | |
| RL RF enter Freq 2.44 dE/div Ref Offs 00 0 00 0 00 0 00 0 00 0 | 50 Ω AC 1500000 GHz et 2.39 dB | SENSE:I | NT g: Free Run | ALIGNAUTO #Avg Type | >100/100 | ۳ ^۲ ۲۲ (r1 2.44 0 | |
| enter Freq 2.44 Ref Offse | 50 Ω AC 1500000 GHz et 2.39 dB | SENSE:I | NT g: Free Run | ALIGNAUTO #Avg Type | >100/100 | ۳ ^۲ ۲۲ (r1 2.44 0 | |
| RL RF enter Freq 2.44 Ref Offs dB/div Ref 20. 0 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 | 50 Ω AC 1500000 GHz et 2.39 dB | SENSE:I | NT g: Free Run | ALIGNAUTO #Avg Type | >100/100 | ۳ ^۲ ۲۲ (r1 2.44 0 | |
| RL RF enter Freq 2.44 Ref Offs dB/div Ref 20. 0 | 50 9 AC 1500000 GHz et 2.39 dB 00 dBm 1 1 1 1 1 1 1 1 1 1 1 1 1 | SENSE:I | NT g: Free Run | ALIGNAUTO #Avg Type | >100/100 | span | 2.000 MHz |
| RL RF enter Freq 2.44 dB/div Ref 0ffs 9 00 | 50 9 AC 1500000 GHz et 2.39 dB 00 dBm 1 1 1 1 1 1 1 1 1 1 1 1 1 | SENSE:I | g: Free Run ten: 30 dB | ALIGNAUTO #Avg Type | >100/100 | span | 950 GHz 191 dBm |
| RL RF Ref enter Freq 2.44 Ref Offs dB/div Ref 20. g | 50 9 AC 1500000 GHz et 2.39 dB 00 dBm 1 1 1 1 1 1 1 1 1 1 1 1 1 | SENSE: PNO: Wide Tri FGain:Low #At | g: Free Run ten: 30 dB | ALIGNAUTO #Avg Type | >100/100 MI | span | 2.000 MHz |
| RL RF Amore and a stress of the stress of t | 50 9 AC 1500000 GHz et 2.39 dB 00 dBm 1 1 1 1 1 1 1 3 3 3 4 3 4 3 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 | SENSE: PNO: Wide Tri FGain:Low #VBW 10 #VBW 10 | g: Free Run ten: 30 dB | 2441MHz ALIGNAUTO #Avg Typ- Avg Hold: | >100/100 MI | span 2.133 ms | 2.000 MHz |
| RL RF enter Freq 2.44 Ref Offs dB/div Ref 20. 00 | 50 9 AC 1500000 GHz et 2.39 dB 00 dBm 1 1 1 1 1 3 Hz 2.440 950 GHz | SENSE: PNO: Wide Tri FGain:Low #VBW 10 #VBW 10 | g: Free Run ten: 30 dB | 2441MHz ALIGNAUTO #Avg Typ Avg Hold: | >100/100 MI | span 2.133 ms | 2.000 MHz |
| RL RF Image: Ref Offsice enter Freq 2.44 Ref Offsice Ref Offsice dB/div Ref 20. Ref 20. 9 | 50 9 AC 1500000 GHz et 2.39 dB 00 dBm 1 1 1 1 1 3 Hz 2.440 950 GHz | SENSE: PNO: Wide Tri FGain:Low #VBW 10 #VBW 10 | g: Free Run ten: 30 dB | 2441MHz ALIGNAUTO #Avg Typ Avg Hold: | >100/100 MI | span 2.133 ms | 2.000 MHz |
| RL RF enter Freq 2.44 Ref Offsi dB/div Ref 20. 00 | 50 9 AC 1500000 GHz et 2.39 dB 00 dBm 1 1 1 1 1 3 Hz 2.440 950 GHz | SENSE: PNO: Wide Tri FGain:Low #VBW 10 #VBW 10 | g: Free Run ten: 30 dB | 2441MHz ALIGNAUTO #Avg Typ Avg Hold: | >100/100 MI | span 2.133 ms | 2.000 MHz |
| RL RF enter Freq 2.44 Ref Offs dB/div Ref 20. og og og | 50 9 AC 1500000 GHz et 2.39 dB 00 dBm 1 1 1 1 1 3 Hz 2.440 950 GHz | SENSE: PNO: Wide Tri FGain:Low #VBW 10 #VBW 10 | g: Free Run ten: 30 dB | 2441MHz ALIGNAUTO #Avg Typ Avg Hold: | >100/100 MI | span 2.133 ms | 2.000 MHz |

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| | CFS NVNT 3- | DH1 2480MHz | | |
|--|--|-------------------------|--------------------------|---|
| Agilent Spectrum Analyzer - Swept SA | SENSE:INT | ALIGNAUTO | | 04:27:33 PM Apr 23, 2023 |
| Center Freq 2.479500000 GHz | PNO: Wide Trig: Fr IFGain:Low #Atten: | #Avg T ee Run Avg Ho | ype: RMS ild:>100/100 | TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N |
| Ref Offset 2.44 dB 10 dB/div Ref 20.00 dBm | | | Mkr | 1 2.478 942 GHz -1.423 dBm |
| | ~^ | | 2 | |
| -20.0 | | | | |
| -50.0 -60.0 -70.0 | | | | |
| Center 2.479500 GHz #Res BW 30 kHz | #VBW 100 k | Hz | Sweep | Span 2.000 MHz 2.133 ms (1001 pts) |
| MKR MODE TRC SCL X 1 N 1 f 2.478 942 G 2 N 1 f 2.479 944 G 3 4 - | Hz -1.423 dBm | FUNCTION FUNCTION WIDTH | FUN | CTION VALUE |
| 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | | | | × |
| MSG | | | 3 | |



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13. Number Of Hopping Frequency

13.1 Block Diagram Of Test Setup



13.2 Limit

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

13.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2. Set the spectrum analyzer: RBW = 100kHz. VBW = 300kHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.

3. Allow the trace to stabilize. It may prove necessary to break the span up to sections. in order to clearly show all of the hopping frequencies. The limit is specified in one of the subparagraphs of this Section.
4. Set the spectrum analyzer: Start Frequency = 2.4GHz, Stop Frequency = 2.4835GHz. Sweep=auto;

| 13.4 | Test Result |
|------|-------------|
|------|-------------|

| Condition | Mode | Hopping Number | Limit | Verdict |
|-----------|-------|----------------|-------|---------|
| NVNT | 1-DH1 | 79 | 15 | Pass |
| NVNT | 2-DH1 | 79 | 15 | Pass |
| NVNT | 3-DH1 | 79 | 15 | Pass |

ТC



| | Hoppi | Test Gra | phs -DH1 2441MHz | |
|--|---|---|--|--|
| lent Spectrum Analyzer - S | | | | |
| RL RF 50 enter Freq 2.441 | 750000 GHz | SENSE:INT Fast Trig: Free Ru in:Low #Atten: 30 dE | ALIGNAUTO #Avg Type: RMS In Avg Hold:>100/100 3 | 04:32:30 PM Apr 23, 2023 TRACE 1 2 3 4 5 6 TYPE MWWWWWW DET P N N N N |
| Ref Offset dB/div Ref 20.00 | | | Mkr | 1 2.401 920 5 GHz -0.611 dBm |
| ¹⁹ | | | | |
| | <u> WANNA WANNA MANA</u> | | ŴŴŴŴŴŴŴŴŴŴŴŴŴŴ | NNNNNNNN (|
|).0 <mark>- </mark> | | | | |
| 0.0 <mark>- N</mark> | | | | |
|).0 <mark></mark> | | | | vtn |
|).0 | | | | |
| art 2.40000 GHz tes BW 100 kHz | | #VBW 300 kHz | Swee | Stop 2.48350 GHz p 8.000 ms (1001 pts) |
| R MODE TRC SCL N 1 f N 1 f | × 2.401 920 5 GHz 2.480 076 5 GHz | Y FUNCTI -0.611 dBm 0.400 dBm | ION FUNCTION WIDTH | UNCTION VALUE |
| | 2.400 070 0 0112 | | | |
| | | | | |
| | | | | |
| | | | STATUS | × |
| | Hoppi | ing No. NVNT 2 | 2-DH1 2441MHz | |
| lent Spectrum Analyzer - 1 R L RF 50 | | SENSE:INT | ALIGN AUTO | 04:38:39 PM Apr 23, 2023 |
| enter Freq 2.441 | PNO | : Fast 😱 Trig: Free Ru in:Low #Atten: 30 dE | | TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N N |
| Ref Offset | 2.39 dB | | | 1 2.401 586 5 GHz -2.232 dBm |
| | | | | |
| dB/div Ref 20.00 | | | | |
| 00 B/div Ref 20.00 | VIVVIVVVVV | AMAAMAMA AMAMA | WWWWWWWWWW | $MMMMMM^2$ |
| dB/div Ref 20.00 | alaan araalaa ho | ₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩ | aanaanaanaanaanaanaanaanaanaanaanaanaan | MVMMMMMVVV2 |
| dB/div Ref 20.00 | | AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA | | www.www. |
| gB/div Ref 20.00 | | | | |
| dB/div Ref 20.00 | vrvvvvvvvvvvvv | | ranga ang ang ang ang ang ang ang ang ang | |
| dB/div Ref 20.00 dB/div Ref 2 | | | | Stop 2.48350 GHz |
| Bildiv Ref 20.00 9 1 1 | X | #VBW 300 kHz | Swee | |
| Bitdiv Ref 20.00 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | #VBW 300 kHz | Swee | Stop 2.48350 GHz p 8.000 ms (1001 pts) |
| Bit Ref 20.00 9 1 00 1 01 1 02 1 03 1 04 1 05 1 06 1 07 1 08 1 09 1 | × 2.401 586 5 GHz | #VBW 300 kHz 2.232 dBm | Swee | Stop 2.48350 GHz p 8.000 ms (1001 pts) |
| Bit Ref 20.00 9 1 00 1 01 1 02 1 03 1 04 1 | × 2.401 586 5 GHz | #VBW 300 kHz 2.232 dBm | Swee | Stop 2.48350 GHz p 8.000 ms (1001 pts) |

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| Нор | ping No. NVNT | 3-DH1 2441M | 1Hz | |
|--|--|----------------|-------------------------|--|
| | SENSE:INT PNO: Fast Trig: Free Gain:Low #Atten: 30 | | | 24 PM Apr 23, 2023 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N N |
| Ref Offset 2.39 dB 10 dB/div Ref 20.00 dBm 10 0 1 0 00 1 0 00 1 0 00 1 0 00 1 0 00 1 0 00 1 0 00 1 0 00 1 0 00 1 0 00 1 0 00 1 0 00 1 0 00 1 0 00 1 10 0 1 10 0 1 10 0 1 10 0 1 10 0 1 10 0 1 10 0 1 10 0 1 10 0 1 10 0 1 10 0 1 10 0 1 10 0 1 10 0 1 10 0 1 10 0 1 10 0 1 | MWWWWWWW | WWWWANNAA | | .119 dBm |
| Start 2.40000 GHz #Res BW 100 kHz | #VBW 300 kHz | | Stop 2 Sweep 8.000 m | 2.48350 GHz is (1001 pts) |
| MKR MODE TRC SCL X 1 N 1 f 2.4017535 GHz 2 N 1 f 2.480327 0 GHz 3 - - - - 4 - - - - 5 - - - - 6 - - - - 9 - - - - 10 - - - - | 1.119 dBm | FUNCTION WIDTH | FUNCTION VALUE | × |
| MSG | | STATUS | | |





14. Dwell Time

14.1 Block Diagram Of Test Setup



14.2 Limit

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

14.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2. Set spectrum analyzer span = 0. Centred on a hopping channel;

3. Set RBW = 1MHz and VBW = 3MHz.Sweep = as necessary to capture the entire dwell time per hopping channel. Set the EUT for DH5, DH3 and DH1 packet transmitting.

4. Use the marker-delta function to determine the dwell time. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).

14.4 Test Result

DH5 Packet permit maximum 1600 / 79 / 6 hops per second in each channel (5 time slots RX, 1 time slot TX).

DH3 Packet permit maximum 1600 / 79 / 4 hops per second in each channel (3 time slots RX, 1 time slot TX).

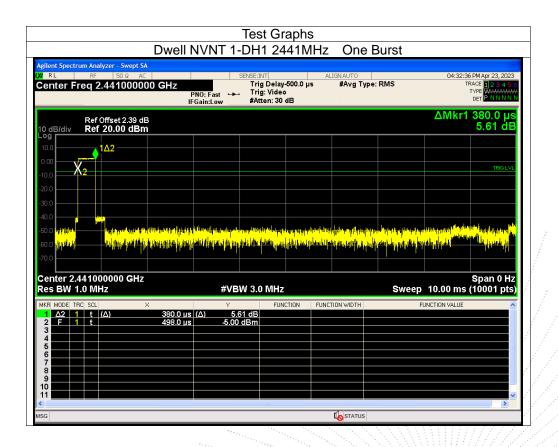
DH1 Packet permit maximum 1600 / 79 /2 hops per second in each channel (1 time slot RX, 1 time slot TX). So, the Dwell Time can be calculated as follows:

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| Condition | Mode | Frequency (MHz) | Pulse Time (ms) | Total Dwell Time (s) | Limit (s) | Verdict |
|-----------|-------|--------------------|--------------------|-------------------------|-----------|---------|
| NVNT | 1-DH1 | 2441 | 0.38 | 0.122 | 0.4 | Pass |
| NVNT | 1-DH3 | 2441 | 1.644 | 0.263 | 0.4 | Pass |
| NVNT | 1-DH5 | 2441 | 2.892 | 0.308 | 0.4 | Pass |
| NVNT | 2-DH1 | 2441 | 0.387 | 0.124 | 0.4 | Pass |
| NVNT | 2-DH3 | 2441 | 1.638 | 0.262 | 0.4 | Pass |
| NVNT | 2-DH5 | 2441 | 2.887 | 0.308 | 0.4 | Pass |
| NVNT | 3-DH1 | 2441 | 0.386 | 0.124 | 0.4 | Pass |
| NVNT | 3-DH3 | 2441 | 1.636 | 0.262 | 0.4 | Pass |
| NVNT | 3-DH5 | 2441 | 2.887 | 0.308 | 0.4 | Pass |

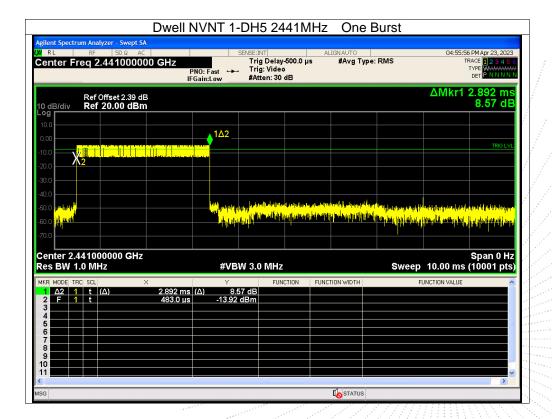


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No.: BCTC/RF-EMC-007



| enter Freq 2.441000000 GHz PNO: Fast IFGain:Low PNO: Fast IFGC PNO: Fast I | | Dwell N | VNT 1-DH | 3 2441N | IHz One | e Burst | | |
|--|--|---------------------|------------------------------------|--|--|--|---|------------------|
| Ref 20.00 dBm 6.55 d 6.55 d | RL RF 50Ω A | AC DOO GHz PN | Tri I0: Fast ↔ Tri | g Delay-500.0 μ g: Video | | ype: RMS | TRACE TYPE | 12345 Www.ww |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | | | | | | |
| 000 1 | 10.0 0.00 X 2 | 1Δ2 | | | | | | TRIG L |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | | | | | | |
| es BW 1.0 MHz #VBW 3.0 MHz Sweep 10.00 ms (10001 pt LA2 1 t (Δ) 6.55 dB Function width Function value 1 Δ2 1 t (Δ) 1.644 ms (Δ) 6.55 dB Function value 2 F 1 t 438.0 μs -5.30 dBm Function value Function value 4 F F t 438.0 μs -5.30 dBm Function value Function value Function value 4 F F Function value Function value Function value Function value Function value 5 F F F Function value Function value Function value Function value 6 F F Function value Function value Function value Function value 9 F F Function value Function value Function value Function value | 40.0 | | where a ball direct date. | | | | | |
| Δ2 1 t (Δ) 1.644 ms (Δ) 6.55 dB 2 F 1 t 438.0 μs -5.30 dBm 3 - - - - 4 - - - - 5 - - - - 6 - - - - 9 - - - - 1 - - - - | | | Habier and to a before | " | (1) Marine (1) Marine (1) Marine (1) 4) Marine (1) | la al da anglesa ang banda bilan <mark>Bala da ang banda bilang banda bilang banda bilang bilang bilang bilang bilang bilang bilang bilang bilang bilang Bala da ang bilang b</mark> | kipun kanda di kudun yang Ka _n upun kanda kipun kang sika k | |
| 2 F 1 t 498.0 µs 5.30 dBm 3 4 4 5 5 6 4 7 4 8 9 9 4 1 4 1 4 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 | 30.0 (1441), 70.0 (1997) Senter 2.441000000 GH: | | + + + + + + + + + + + + + | <mark>11))</mark> na dha danaan Anaga _A nanna (s | (Particular of Antifederation Although a strong of a strong of a | | Sp | an 0 H |
| | Conter 2.441000000 GH2 Center 2.441000000 GH2 Ces BW 1.0 MHz | X | #VBW 3.1 | D MHz | | Sweep | Sp 10.00 ms (100 | an 0 H |
| | 20.0 center 2.441000000 GH; tes BW 1.0 MHz KR MODE TEC SCL 1 Δ2 1 t (Δ) 2 F 1 t | × 1.644 ms (/ | #VBW 3.0 | D MHz | | Sweep | Sp 10.00 ms (100 | an 0 H |
| | 100 μ enter 2.441000000 GH; es BW 1.0 MHz KR MODE TRC SCL 1 Δ2 1 t (Δ) 2 F 1 t | × 1.644 ms (/ | #VBW 3.0 | D MHz | | Sweep | Sp 10.00 ms (100 | an 0 H |
| | 30.0 μ μ Senter 2.441000000 GH; ses BW 1.0 MHz KR MODE TRC SCL 1 Δ2 1 t 2 F 1 t 3 - - - | × 1.644 ms (/ | #VBW 3.0 | D MHz | | Sweep | Sp 10.00 ms (100 | an 0 H |
| | 500 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | × 1.644 ms (/ | #VBW 3.0 | D MHz | | Sweep | Sp 10.00 ms (100 | an 0 H |
| | 30.0 μ senter 2.441000000 GH; senter 2.441000000 GH; ses BW 1.0 MHz KR MODE TRC SCL 1 Δ2 2 F 1 Δ2 5 6 7 9 | × 1.644 ms (/ | #VBW 3.0 | D MHz | | Sweep | Sp 10.00 ms (100 | an 0 H |
| | 500 H H H Senter 2.441000000 GH; Senter 2.4410000000 GH; Senter 2.44100000000 GH; Senter 2.44100000000000 GH; Senter 2.44100000000000000000000000000000000000 | × 1.644 ms (/ | #VBW 3.0 | D MHz | | Sweep | Sp 10.00 ms (100 | an 0 H)01 pt |

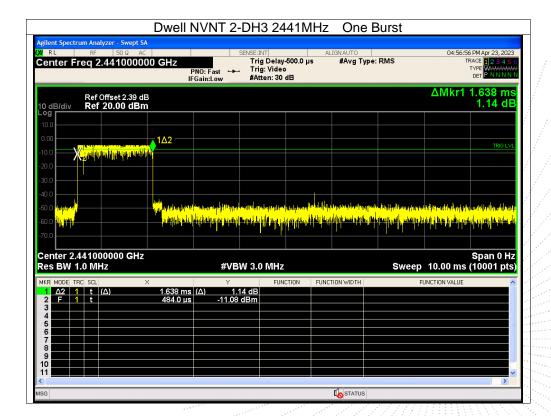




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| | | Dwell N | NVNT | 2-DH | 1 244 | 41MH | z One | e Burst | | |
|--|---|--|---|---|---|--|---|---|--|--|
| gilent Spectrum Ana | alyzer - Swept SA | | | | | | | | | |
| RL RF | 50 Ω AC | | | SENSE:I | | | ALIGN AUTO | | 0 | 4:38:45 PM Apr 23, 20 |
| enter Freq 2 | 2.44100000 | | | | g Delay-5 g: Video | 00.0 µs | #Avg T | ype: RMS | | TRACE 1 2 3 4 |
| | | | PNO: Fast Gain:Low | | ten: 30 d | в | | | | DET P N N N |
| | | | | | | | | | A 14 | ket 207.0 . |
| | Offset 2.39 dB | | | | | | | | | kr1 387.0 µ -0.75 d |
| odB/div Ref | f 20.00 dBm | | | | | | | | | -0.75 u |
| 0.0 | | | | | | | | | | |
| | 1Δ2 | | | | | | | | | |
| X. | | | | | | | | | | TRIG L |
| 0.0 | | | | | | | | | | |
| 0.0 | | | | | | | | | | |
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| 0.0 | | | | | | | | | | |
| | | | | | | | | | | |
| 40.0 | ter Diplosite of options | <mark>Mangalakan (11) Kan</mark> a | ind in the second | rende te teken | <mark>Alpededet ble</mark> | strupp dag bild | Nerellandi yadendi <mark>k</mark> | hille hala da | <mark>la taka</mark> da si kati | ingen en gegeneren here here here here here here her |
| 0.0 <mark>10.000</mark> | n gitarikan ang kina n <mark>g biarikan ang santari</mark> | <mark>l en stelen find fan d</mark> | lini di Unui junio Lini pinana papa | na kataka Kajing Taning K | <mark>Andelsen</mark> Theory of the | <mark>it <mark>jer andere</mark></mark> | Natalian Dirpotanid Da <mark>harak^{da}n p</mark> anagi | ile port a constraint de le port a constraint de le port a constraint de | ing and a state of the state of | side different fransse steller fra Side different fransse steller fra different fransse steller fra side fra s Side different fransse steller fra side |
| 0.0 <mark>41.44.41</mark> 0.0 41.44.41 | | <mark>Mangalakan pertakan Tenggunakan pertakan T</mark> | ing the second secon | rofordidio La _{mp} aniski | <mark>Alpertadet ble</mark> ^{Me} l (tiples ti | <mark>it <mark>de l'andrei i</mark></mark> | Nerdkett _o ndendy Us <mark>te</mark> rds ^{kin} tyteregt | ile Belevier Ante for for a for a A for an a for a | | |
| enter 2.44100 | 00000 GHz | <mark>li v sed picer (193) (dad) 9 <mark>h. alpise sed (</mark>accielo</mark> | | <mark>i a m_e lashiki</mark> | <mark>ulu</mark> nga t | it (et and de | Nerdkann anderskeit Nationalise Nationalise | <mark>y (n. de galeda), (ang pang pal pal pala</mark> | ide of a little of a | Span 0 H |
| enter 2.44100 | 00000 GHz | <mark>li v sedeni vise i vis</mark> | | VBW 3.0 | <mark>ulu</mark> nga t | ite per tentation ite per parat | Nerden (Nerden de State) Nerden (Nerden de State) Nerden (Nerden de State) | <mark>y (n. de galeda), (ang pang pal pal pala</mark> | ide of a little of a | |
| enter 2.44100 es BW 1.0 MH | 00000 GHz Hz | < | #1444444444444444444444444444444444444 | VBW 3.0 | <mark>ulu</mark> nga t | | NET OF THE PERSON OF THE PE | <mark>y (n. de galeda), (ang pang pal pal pala</mark> | ide of a little all a | Span 0 F ms (10001 pt |
| enter 2.44100 es BW 1.0 MH kR MODE TRC SCL 1 Δ2 1 t | 00000 GHz Hz | < 387.0 µs | , <mark>μη ματι 1 τ</mark> # (Φ) | <u>и и рапри</u> VBW 3.0 -0.75 dB |) MHz | | <mark>lla jaca sin jaca s</mark> i | <mark>y (n. de galeda), (ang pang pal pal pala</mark> | eep 10.00 | Span 0 F ms (10001 pt |
| enter 2.44100 es BW 1.0 MH | 00000 GHz Hz | < | , <mark>μη ματι 1 τ</mark> # (Φ) | VBW 3.0 |) MHz | | <mark>lla jaca sin jaca s</mark> i | <mark>y (n. de galeda), (ang pang pal pal pala</mark> | eep 10.00 | Span 0 F ms (10001 pt |
| 0.0 the off 0.0 1.44 enter 2.44100 es BW 1.0 MH KR MODE TRC SCL 1 42 2 F 2 F 3 4 | 00000 GHz Hz | < 387.0 µs | , <mark>μη ματι 1 τ</mark> # (Φ) | <u>и и рапри</u> VBW 3.0 -0.75 dB |) MHz | | <mark>lla jaca sin jaca s</mark> i | <mark>y (n. de galeda), (ang pang pal pal pala</mark> | eep 10.00 | Span 0 F ms (10001 pt |
| enter 2.44100 es BW 1.0 MH KR MODE TRC SCL 2 F 1 t 3 4 5 5 | 00000 GHz Hz | < 387.0 µs | , <mark>μη ματι 1 τ</mark> # (Φ) | <u>и и рапри</u> VBW 3.0 -0.75 dB |) MHz | | <mark>lla jaca sin jaca s</mark> i | <mark>y (n. de galeda), (ang pang pal pal pala</mark> | eep 10.00 | Span 0 F ms (10001 pt |
| κ μ μ center 2.44100 center 2.44100 ces BW 1.0 MH k KR MODE TRC SCL 1 1 Δ2 1 t 2 F 1 t 3 - - - | 00000 GHz Hz | < 387.0 µs | , <mark>μη ματι 1 τ</mark> # (Φ) | <u>и и рапри</u> VBW 3.0 -0.75 dB |) MHz | | <mark>lla jaca sin jaca s</mark> i | <mark>y (n. de galeda), (ang pang pal pal pala</mark> | eep 10.00 | Span 0 F ms (10001 pt |
| μ μ μ center 2.44100 center 2.44100 ces BW 1.0 MH k KR MODE TRC SCL 1 1 Δ2 1 2 F 1 3 - 1 4 - - 5 - 6 7 - - 8 - - | 00000 GHz Hz | < 387.0 µs | , <mark>μη ματι 1 τ</mark> # (Φ) | <u>и и рапри</u> VBW 3.0 -0.75 dB |) MHz | | <mark>lla jaca sin jaca s</mark> i | <mark>y (n. de galeda), (ang pang pal pal pala</mark> | eep 10.00 | Span 0 F ms (10001 pt |
| Image: Second stress Image: Second stress Image: Second stress | 00000 GHz Hz | < 387.0 µs | , <mark>μη ματι 1 τ</mark> # (Φ) | <u>и и рапри</u> VBW 3.0 -0.75 dB |) MHz | | <mark>lla jaca sin jaca s</mark> i | <mark>u (n. d. ; leini, fan fan fan fan fan fan fan fan fan fan</mark> | eep 10.00 | Span 0 F ms (10001 pt |
| μ μ μ 0.0 μ μ μ 0.0 μ μ μ enter 2.44100 es BW 1.0 MH KR MODE TRC SCL 1 Δ2 1 t 2 F 1 t 3 - 5 - 5 - 5 - 6 - - - 7 8 - - | 00000 GHz Hz | < 387.0 µs | , <mark>μη ματι 1 τ</mark> # (Φ) | <u>и и рапри</u> VBW 3.0 -0.75 dB |) MHz | | <mark>lla jaca sing asa ya</mark> | <mark>u (n. d. ; leini, fan fan fan fan fan fan fan fan fan fan</mark> | eep 10.00 | Span 0 F ms (10001 pt |
| Image: Constraint of the sector of | 00000 GHz Hz | < 387.0 µs | , <mark>μη ματι 1 τ</mark> # (Φ) | <u>и и рапри</u> VBW 3.0 -0.75 dB |) MHz | | <mark>lla jaca sing asa ya</mark> | <mark>u (n. d. ; leini, fan fan fan fan fan fan fan fan fan fan</mark> | eep 10.00 | Span 0 F ms (10001 pt |

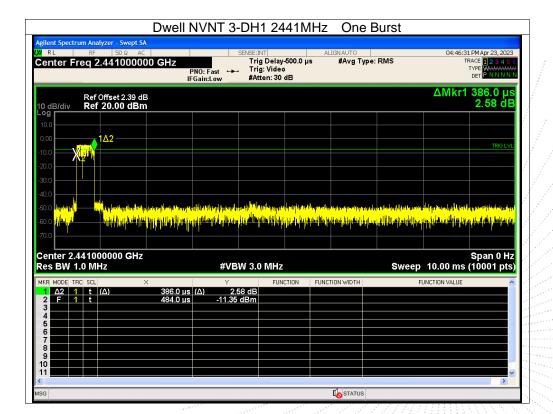






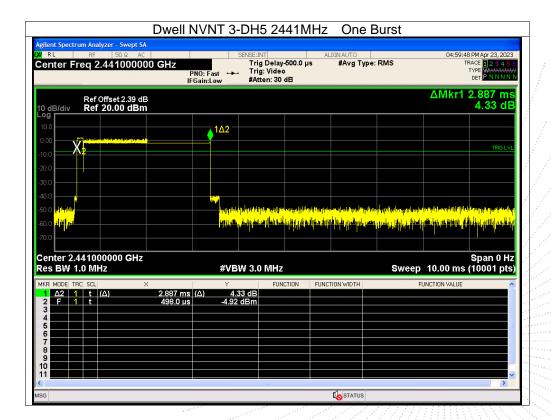


| Dwel | I NVNT 2-DH | 15 2441MH | Hz One | Burst | |
|--|--|---|---|--|---|
| Agilent Spectrum Analyzer - Swept SA | SENSE: | TAUT | UICHUITO. | 1 | 04/57-44 DM Apr 22, 202 |
| RL RF 50Ω AC Center Freq 2.441000000 GHz | PNO:East ↔ Tri | ig Delay-500.0 μs ig: Video tten: 30 dB | ALIGNAUTO #Avg Typ | e: RMS | 04:57:44 PM Apr 23, 202 TRACE 1 2 3 4 5 TYPE WWWWW DET P N N N N |
| Ref Offset 2.39 dB 10 dB/div Ref 20.00 dBm | | | | | ∆Mkr1 2.887 m -3.84 dI |
| | 1∆2 | | | | TRIG LV |
| 10.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 | | | | | |
| 30.0 | | | | | |
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| 40.0 50.0 140.0 50.0 140.0 50.0 140.0 | #VBW 3. | 0 MHz Function | YAYKA AFA SIN A | Sweep | Span 0 H 10.00 ms (10001 pts |
| 40.0 1 <td>#VBW 3.</td> <td>0 MHz Function</td> <td>YAYKA AFA SIN A</td> <td>Sweep</td> <td>Span 0 H 10.00 ms (10001 pt</td> | #VBW 3. | 0 MHz Function | YAYKA AFA SIN A | Sweep | Span 0 H 10.00 ms (10001 pt |
| 40.0 | #VBW 3. | 0 MHz Function | YAYKA AFA SIN A | Sweep | Span 0 H 10.00 ms (10001 pts |





| | Dwell N | IVNT 3-DH | I3 2441N | IHz One | e Burst | |
|--|---|--|---|-----------------------|--|---|
| Agilent Spectrum Analyzer - Swept S XIRL RF 50 ຊ A Center Freq 2.4410000 | C 100 GHz PN | l0:East →→ Tr | INT ig Delay-500.0 µ ig: Video tten: 30 dB | ALIGNAUTO s #Avg T | ype: RMS | 04:58:56 PM Apr 23, 2 TRACE 1234 TYPE WWWW DET PNNN |
| Ref Offset 2.39 d 10 dB/div Ref 20.00 dBr | | | | | | ΔMkr1 1.636 n 4.15 c |
| | 1Δ2 | | | | | TRIG |
| -10.0 | | | | | | |
| -40.0 | and and a line of the | n a dharach an bhaile. <mark>Tha bha a bhaile an b</mark> | rli <mark>Jilol</mark> ijata ang salahi | | ca., ha a suralitation constituite | n that distance and do not on the or |
| | u <mark>ah, (haha)</mark> | | all and the state of the second | | and for some and a state of the second s Second second second Second second | |
| Center 2.441000000 GHz | u alı, ,duyı, z | #VBW 3. | 0 MHz | | | Span 0 10.00 ms (10001 p |
| 60.0 μ Center 2.441000000 GHz Res BW 1.0 MHz MKR MODE TRC SCL 1 Δ2 1 t (Δ) 2 F 1 t 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | <mark>ты. (ынд.)</mark> 2 × 1.636 ms (498.0 µs | Y | FUNCTION | FUNCTION WIDTH | Sweep | Span 0 10.00 ms (10001 p |
| 60 0 μ μ μ μ Center 2.4410000000 GHz Res BW 1.0 MHz MKR MODE TRC SCL 1 Δ2 1 t (Δ) 2 F 1 t 3 4 | × 1.636 ms(| Υ Δ) 4.15 dB | FUNCTION | <mark></mark> | Sweep | 10.00 ms (10001 p |



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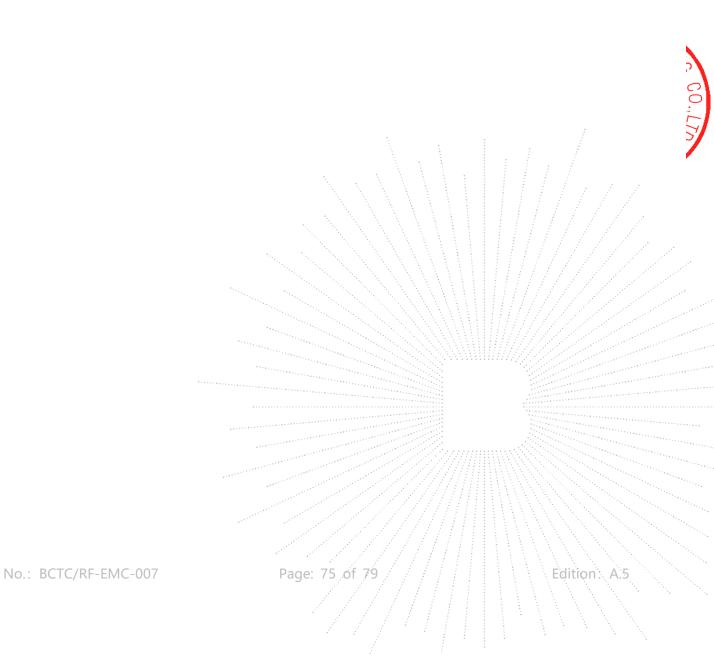
15. Antenna Requirement

15.1 Limit

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

15.2 Test Result

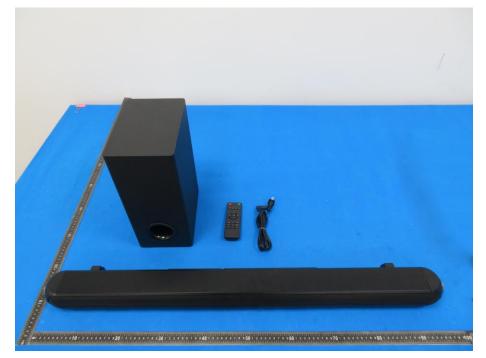
The EUT antenna is PCB antenna, fulfill the requirement of this section.





16. EUT Photographs

EUT Photo



NOTE: Appendix-Photographs Of EUT Constructional Details

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17. EUT Test Setup Photographs

Conducted Measurement Photo



Radiated Measurement Photos



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STATEMENT

1. The equipment lists are traceable to the national reference standards.

2. The test report can not be partially copied unless prior written approval is issued from our lab.

3. The test report is invalid without the "special seal for inspection and testing".

4. The test report is invalid without the signature of the approver.

5. The test process and test result is only related to the Unit Under Test.

6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.

7. The test report without CMA mark is only used for scientific research, teaching, enterprise product development and internal quality control purposes.

8. The quality system of our laboratory is in accordance with ISO/IEC17025.

9. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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***** END *****

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