

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.

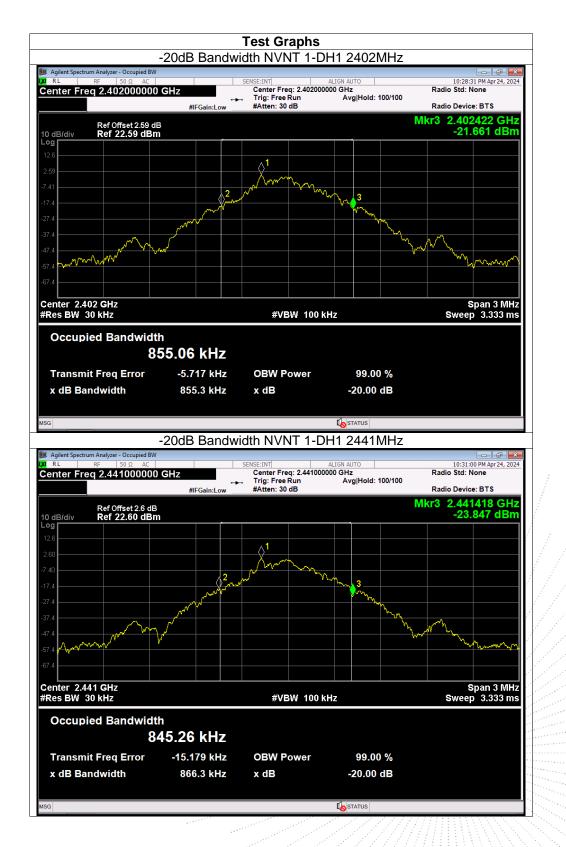
10.4 Test Result

| eft | | | | |
|-----------|-------|-----------------|---------------------------|---------|
| Condition | Mode | Frequency (MHz) | -20 dB Bandwidth (MHz) | Verdict |
| NVNT | 1-DH1 | 2402 | 0.855 | Pass |
| NVNT | 1-DH1 | 2441 | 0.866 | Pass |
| NVNT | 1-DH1 | 2480 | 0.905 | Pass |
| NVNT | 2-DH1 | 2402 | 1.202 | Pass |
| NVNT | 2-DH1 | 2441 | 1.192 | Pass |
| NVNT | 2-DH1 | 2480 | 1.177 | Pass |
| NVNT | 3-DH1 | 2402 | 1.2 | Pass |
| NVNT | 3-DH1 | 2441 | 1.211 | Pass |
| NVNT | 3-DH1 | 2480 | 1.209 | Pass |

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Right

| Condition | Mode | Frequency (MHz) | -20 dB Bandwidth (MHz) | Verdict |
|-----------|-------|-----------------|---------------------------|---------|
| NVNT | 1-DH1 | 2402 | 0.935 | Pass |
| NVNT | 1-DH1 | 2441 | 0.865 | Pass |
| NVNT | 1-DH1 | 2480 | 0.913 | Pass |
| NVNT | 2-DH1 | 2402 | 1.201 | Pass |
| NVNT | 2-DH1 | 2441 | 1.197 | Pass |
| NVNT | 2-DH1 | 2480 | 1.23 | Pass |
| NVNT | 3-DH1 | 2402 | 1.213 | Pass |
| NVNT | 3-DH1 | 2441 | 1.205 | Pass |
| NVNT | 3-DH1 | 2480 | 1.208 | Pass |

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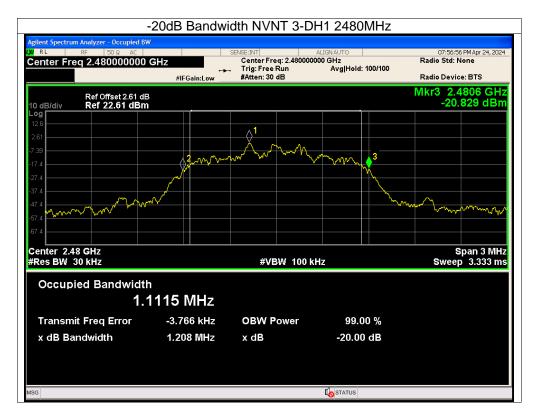
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11. Maximum Peak Output Power

11.1 Block Diagram Of Test Setup

| EUT | SPECTRUM |
|-----|----------|
| | ANALYZER |

11.2 Limit

| FCC Part15 (15.247) , Subpart C | | | | | |
|---------------------------------|----------------------|---------------------|-----------------------|--------|--|
| Section | Test Item | Limit | Frequency Range (MHz) | Result | |
| 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

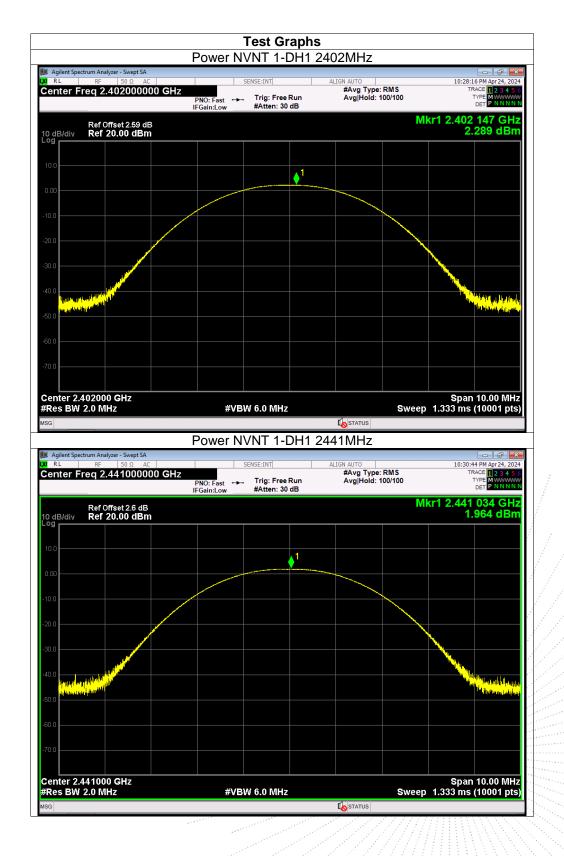
Left

| Condition | Mode | Frequency (MHz) | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|-------|--------------------|--------------------------|-------------|---------|
| NVNT | 1-DH1 | 2402 | 2.29 | 21 | Pass |
| NVNT | 1-DH1 | 2441 | 1.96 | 21 | Pass |
| NVNT | 1-DH1 | 2480 | 2.92 | 21 | Pass |
| NVNT | 2-DH1 | 2402 | 2.33 | 21 | Pass |
| NVNT | 2-DH1 | 2441 | 2.02 | 21 | Pass |
| NVNT | 2-DH1 | 2480 | 2.99 | 21 | Pass |
| NVNT | 3-DH1 | 2402 | 2.43 | 21 | Pass |
| NVNT | 3-DH1 | 2441 | 2.2 | 21 | Pass |
| NVNT | 3-DH1 | 2480 | 3.05 | 21 | Pass |

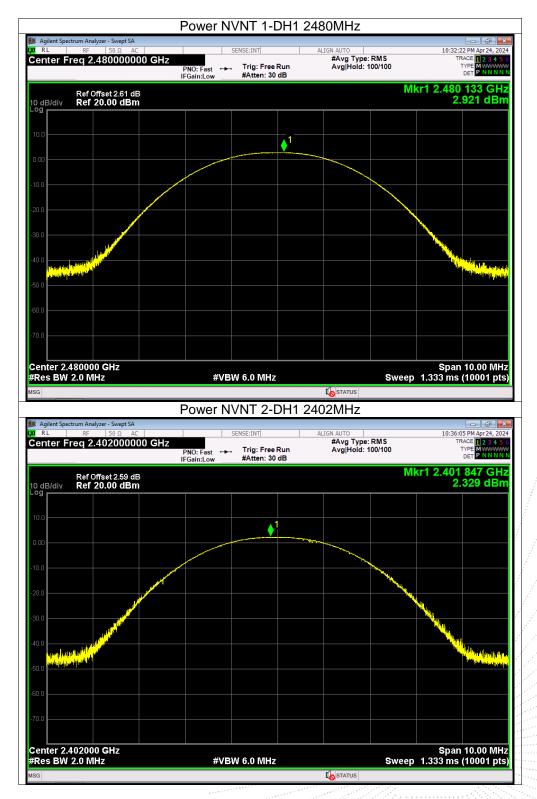
No.: BCTC/RF-EMC-005



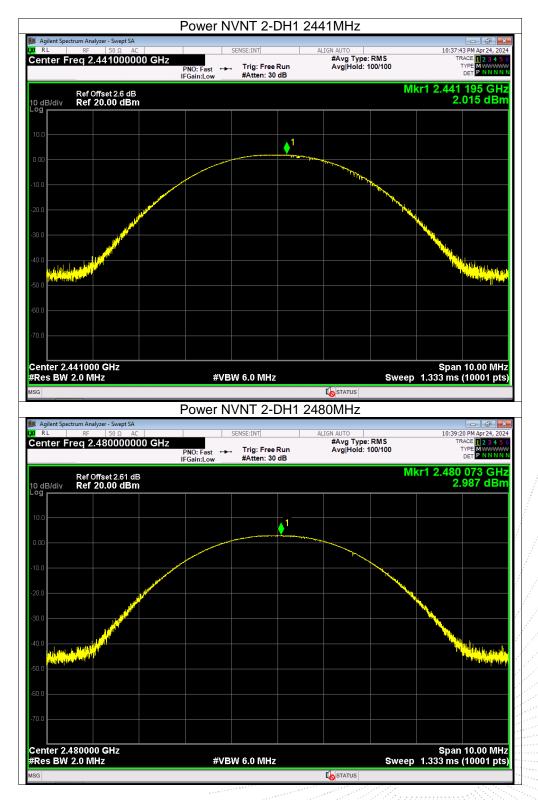




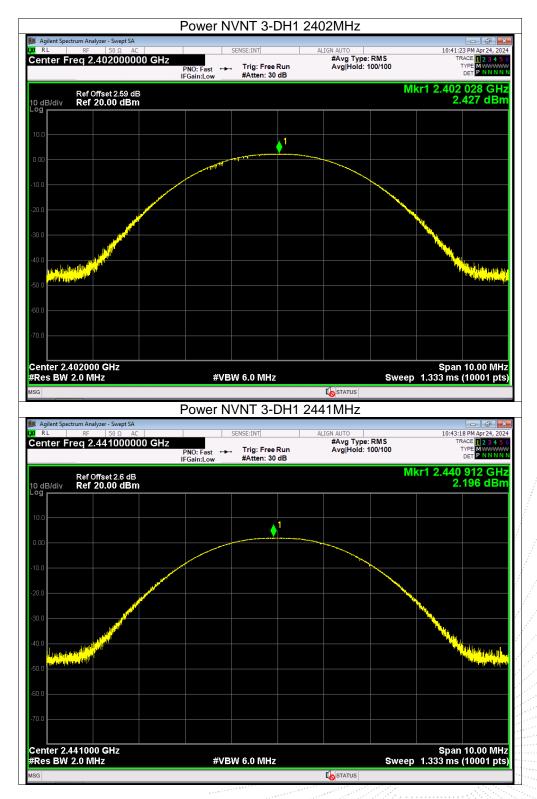
















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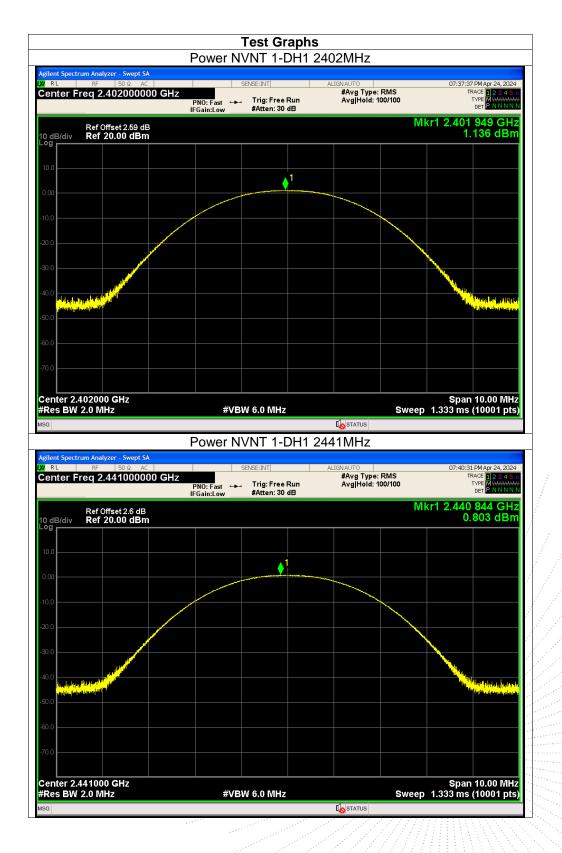


| D: | 1-1 |
|-----|-----|
| RIA | nt |
| INU | 111 |
| | |

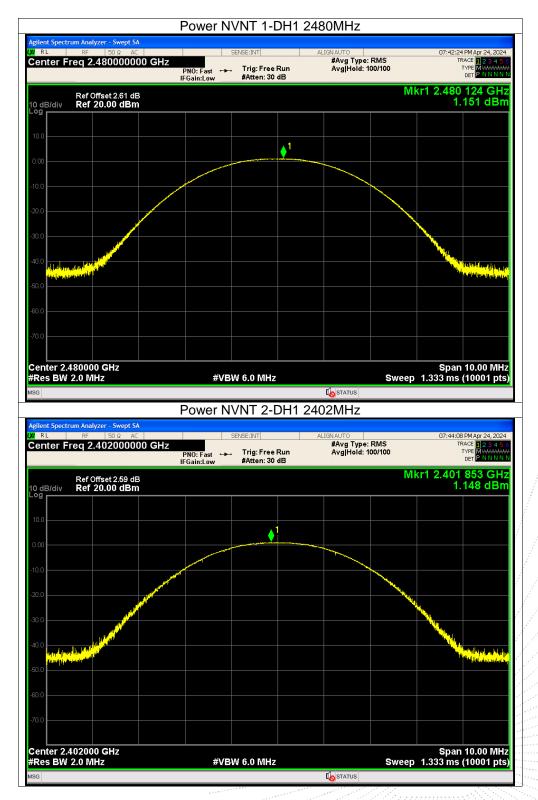
| Condition | Mode | Frequency (MHz) | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|-------|--------------------|--------------------------|-------------|---------|
| NVNT | 1-DH1 | 2402 | 1.14 | 21 | Pass |
| NVNT | 1-DH1 | 2441 | 0.8 | 21 | Pass |
| NVNT | 1-DH1 | 2480 | 1.15 | 21 | Pass |
| NVNT | 2-DH1 | 2402 | 1.15 | 21 | Pass |
| NVNT | 2-DH1 | 2441 | 0.75 | 21 | Pass |
| NVNT | 2-DH1 | 2480 | 1.11 | 21 | Pass |
| NVNT | 3-DH1 | 2402 | 1.19 | 21 | Pass |
| NVNT | 3-DH1 | 2441 | 0.82 | 21 | Pass |
| NVNT | 3-DH1 | 2480 | 1.12 | 21 | Pass |

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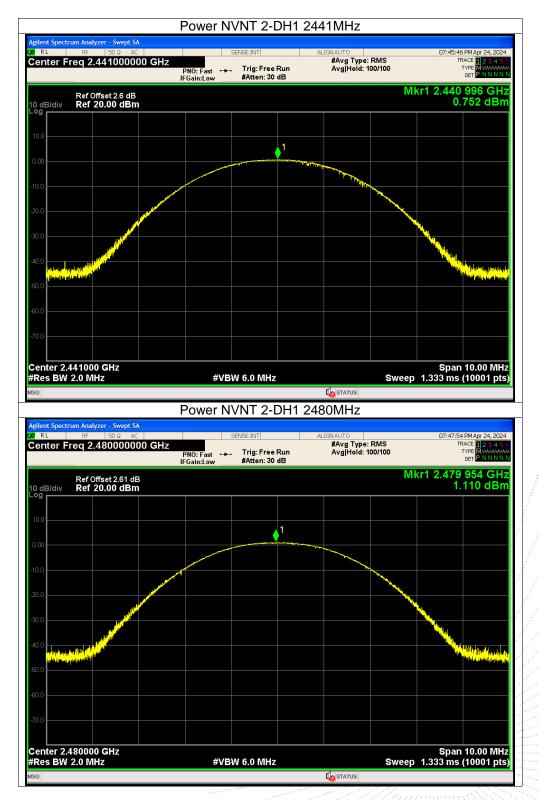




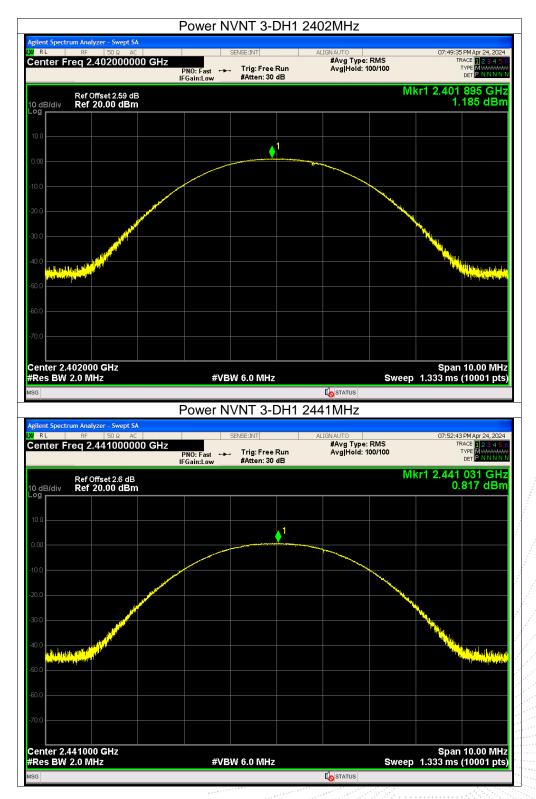
















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12. Hopping Channel Separation

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.

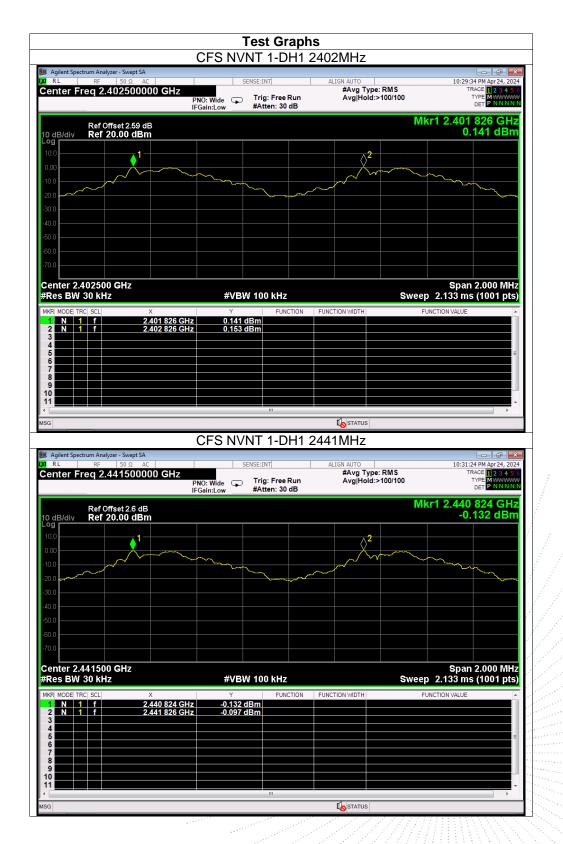
12.4 Test Result

Left

| _ent | | | | | 그는 도도 도도 가지? | |
|-----------|-------|------------------------|------------------------|-----------|--------------|---------|
| Condition | Mode | Hopping Freq1 (MHz) | Hopping Freq2 (MHz) | HFS (MHz) | Limit (MHz) | Verdict |
| NVNT | 1-DH1 | 2401.826 | 2402.826 | 1 | 0.57 | Pass |
| NVNT | 1-DH1 | 2440.824 | 2441.826 | 1.002 | 0.577 | Pass |
| NVNT | 1-DH1 | 2478.832 | 2479.828 | 0.996 | 0.603 | Pass |
| NVNT | 2-DH1 | 2401.83 | 2402.832 | 1.002 | 0.801 | Pass |
| NVNT | 2-DH1 | 2440.83 | 2441.83 | 1 | 0.795 | Pass |
| NVNT | 2-DH1 | 2478.832 | 2479.83 | 0.998 | 0.785 | Pass |
| NVNT | 3-DH1 | 2401.828 | 2402.832 | 1.004 | 0.8 | Pass |
| NVNT | 3-DH1 | 2440.828 | 2441.832 | 1.004 | 0.807 | Pass |
| NVNT | 3-DH1 | 2478.832 | 2479.828 | 0.996 | 0.806 | Pass |
| I | | | | | | |









| Agilent Spectrum Analyzer | - Swept SA | S NVNT 1-DH1 | | - 6 - |
|------------------------------------|--|------------------------------------|---|--|
| RL RF Center Freq 2.47 | | SENSE:INT Wide D Trig: Free Run | ALIGN AUTO #Avg Type: RMS Avg Hold:>100/100 | 10:33:08 PM Apr 24, 202 TRACE 1 2 3 4 5 TYPE M WWWW DET P N N N N |
| | IFGai | | Mk | r1 2.478 832 GH |
| Ref Offse 0 dB/div Ref 20. | et 2.61 dB 00 dBm | | | 0.732 dBm |
| 10.0 | 1 | | <mark>2</mark> | |
| 0.00 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | <u> </u> | | ~ |
| 20.0 | | | | |
| 30.0 | | | | |
| 50.0 | | | | |
| 60.0 | | | | |
| 70.0 | | | | |
| Center 2.479500 G Res BW 30 kHz | Hz | #VBW 100 kHz | Sween | Span 2.000 MH 2.133 ms (1001 pts |
| IKR MODE TRC SCL | X | Y FUNCTION | - | ICTION VALUE |
| 1 N 1 f 2 N 1 f | 2.478 832 GHz 2.479 828 GHz | 0.732 dBm 0.790 dBm | | |
| 3 4 | | | | |
| 5 6 7 | | | | |
| 8 | | | | |
| 10 11 | | | | |
| SG | | m | STATUS | |
| | C | S NVNT 2-DH1 | 2402MHz | |
| Agilent Spectrum Analyzer | | SENSE:INT | ALIGN AUTO | 10:36:42 PM Apr 24, 202 |
| enter Freq 2.40 | 2500000 GHz | Wide Trig: Free Run | #Avg Type: RMS Avg Hold:>100/100 | TRACE 1 2 3 4 5 TYPE MWWWW DET P NNNN |
| | IFGai | | | |
| 0 dB/div Ref 20. | et 2.59 dB 00 dBm | | MK | r1 2.401 830 GH: 0.182 dBm |
| .og 10.0 | 1 | | 2 ² | |
| 0.00 | | | | |
| | | June | | \sim |
| 30.0 | | | | |
| 40.0 | | | | |
| 50.0 | | | | |
| 70.0 | | | | |
| Center 2.402500 G | | | | Span 2.000 MH; |
| Res BW 30 kHz | 112 | #VBW 100 kHz | Sweep | 2.133 ms (1001 pts |
| MKR MODE TRC SCL | × 2.401 830 GHz | Y FUNCTION | FUNCTION WIDTH FUI | ICTION VALUE |
| 2 N 1 f 3 | 2.402 832 GHz | 0.230 dBm | | |
| 4 5 | | | | = |
| 6 | | | | |
| 7 | | | | |
| 7 8 9 10 | | | | |



| Agilent Spectrum Analyzer - Sv | | | | |
|--------------------------------|--------------------------------|--|------------------------------|---|
| RL RF 50 enter Freq 2.4415 | Ω AC 500000 GHz | SENSE:INT | ALIGN AUTO #Avg Type: RMS | 10:38:20 PM Apr 24, 20 TRACE 1 2 3 4 5 |
| | | Wide Trig: Free Run h:Low #Atten: 30 dB | Avg Hold:>100/100 | DET PNNN |
| Ref Offset 2 | 6 dB | | | Mkr1 2.440 830 GH |
|) dB/div Ref 20.00 | dBm | | | -0.087 dBn |
| 0.0 | 1 | | 2 | |
| .00 | | | | |
| | | | | |
| 0.0 | | | | |
| 0.0 | | | | |
| 0.0 | | | | |
| 0.0 | | | | |
| 0.0 | | | | |
| enter 2.441500 GH | Z | 40 (B) 44 4 6 6 1 4 1 - | | Span 2.000 MH |
| Res BW 30 kHz | × | #VBW 100 kHz | | weep 2.133 ms (1001 pts |
| KR MODE TRC SCL | × 2.440 830 GHz | Y FUNCTION -0.087 dBm | N FUNCTION WIDTH | FUNCTION VALUE |
| 2 N 1 f | 2.441 830 GHz | -0.050 dBm | | |
| 5 | | | | |
| 6 7 7 | | | | |
| 8 9 0 | | | | |
| 1 | | | | |
| G | | III | STATUS | • |
| | CE | S NVNT 2-DH | ~ | |
| Agilent Spectrum Analyzer - Sv | | | | |
| RL RF 50 enter Freq 2.479 | | SENSE:INT | ALIGN AUTO #Avg Type: RMS | 10:40:09 PM Apr 24, 20 TRACE 1 2 3 4 5 |
| | PNO: IFGair | Wide Trig: Free Run n:Low #Atten: 30 dB | Avg Hold:>100/100 | TRACE 12345 TYPE MWWWW DET P NNNN |
| Ref Offset 2 | | | | Mkr1 2.478 832 GH |
| odB/div Ref 20.00 | dBm | | | 0.735 dBn |
| • 9 10.0 | 1 | | 2 | |
| 0.00 | | | | |
| 0.0 | | | | |
| 20.0 | | | | |
| 10.0 | | | | |
| 50.0 | | | | |
| 60.0 | | | | |
| 0.0 | | | | |
| enter 2.479500 GH | 7 | | | Span 2.000 MH |
| Res BW 30 kHz | | #VBW 100 kHz | Sv | weep 2.133 ms (1001 pts |
| KR MODE TRC SCL | × 2.478 832 GHz | Y FUNCTION 0.735 dBm | N FUNCTION WIDTH | FUNCTION VALUE |
| 1 N 1 f 2 N 1 f 3 | 2.479 832 GHZ 2.479 830 GHz | 0.821 dBm | | |
| 4 | | | | |
| 5 6 7 | | | | |
| | | | | |
| 8 | | | | |
| | | | | |



| Agilent Spectrum Analyzer - 1 RL RF 5 | wept SA | SENSE:INT | ALIGN AUTO | 10:42:12 PM Apr 24, 202 |
|---|-------------------------------------|--|---|--|
| enter Freq 2.402 | 500000 GHz | Wide 😱 Trig: Free Run | #Avg Type: RMS Avg Hold:>100/100 | TRACE 1 2 3 4 5 TYPE MWWW DET PNNN |
| Ref Offset 0 dB/div Ref 20.0 | 2.59 dB 0 dBm | | Mk | r1 2.401 828 GH: -0.122 dBn |
| | | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | |
| | | | | |
| enter 2.402500 GI Res BW 30 kHz | Iz | #VBW 100 kHz | Sweep | Span 2.000 MH 2.133 ms (1001 pts |
| KR MODE TRC SCL 1 N 1 f 2 N 1 f 3 - - - 4 - - - 5 - - - 6 - - - 7 - - - 8 - - - 9 - - - | X 2.401 828 GHz 2.402 832 GHz | Y FUNCTION -0.122 dBm -0.153 dBm | FUNCTION WIDTH FU | NCTION VALUE |
| 0 1 G | | m | K ostatus | • |
| Agilent Spectrum Analyzer - | | S NVNT 3-DH1 | 2441MHz | |
| | ο Ω AC 500000 GHz | SENSE:INT Wide Trig: Free Run Stow #Atten: 30 dB | ALIGN AUTO #Avg Type: RMS Avg Hold:>100/100 | 10:44:00 PM Apr 24, 20: TRACE 1 2 3 4 5 TYPE MWWWW DET P NNNN |
| Ref Offset 0 dB/div Ref 20.0 | 2.6 dB | | Mk | r1 2.440 828 GH -0.485 dBn |
| | | | 2 ² | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |
| 10.0 10.0 10.0 10.0 10.0 | | | | |
| (0.0 | | | | |
| enter 2.441500 Gl Res BW 30 kHz | IZ | #VBW 100 kHz | Sweep | Span 2.000 MH 2.133 ms (1001 pts |
| KR MODE TRC SCL 1 N 1 f 2 N 1 f 3 4 5 6 5 7 5 8 5 9 0 | X 2.440 828 GHz 2.441 832 GHz | Y FUNCTION -0.485 dBm -0.374 dBm | FUNCTION WIDTH FU | ICTION VALUE |
| 1 | | | | |



| | CFS NVNT 3-DH | 1 2480MHz | |
|--|--|---|---|
| Agilent Spectrum Analyzer - Swept SA RL RF 50 Q AC Center Freq 2.479500000 GHz | PNO: Wide Trig: Free Run IFGain:Low #Atten: 30 dB | ALIGN AUTO #Avg Type: RMS Avg Hold:>100/100 | 10:45:43 PM Apr24, 202 TRACE 1 2 3 4 5 TYPE MWWWW DET P NNNN |
| Ref Offset 2.61 dB 10 dB/div Ref 20.00 dBm | | | Mkr1 2.478 832 GHz 0.415 dBn |
| Log 10.0 0.00 -10.0 | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | |
| -20.0 | | | |
| -50.0 | | | |
| Center 2.479500 GHz #Res BW 30 kHz | #VBW 100 kHz | Sw | Span 2.000 MH eep 2.133 ms (1001 pts |
| MKR MODE TRC SCL X 1 N 1 f 2.478 832 G 2 N 1 f 2.479 828 G 3 4 4 4 4 | | N FUNCTION WIDTH | FUNCTION VALUE |
| 5 6 7 8 9 9 10 | | | |
| 11 • ISG | | | |

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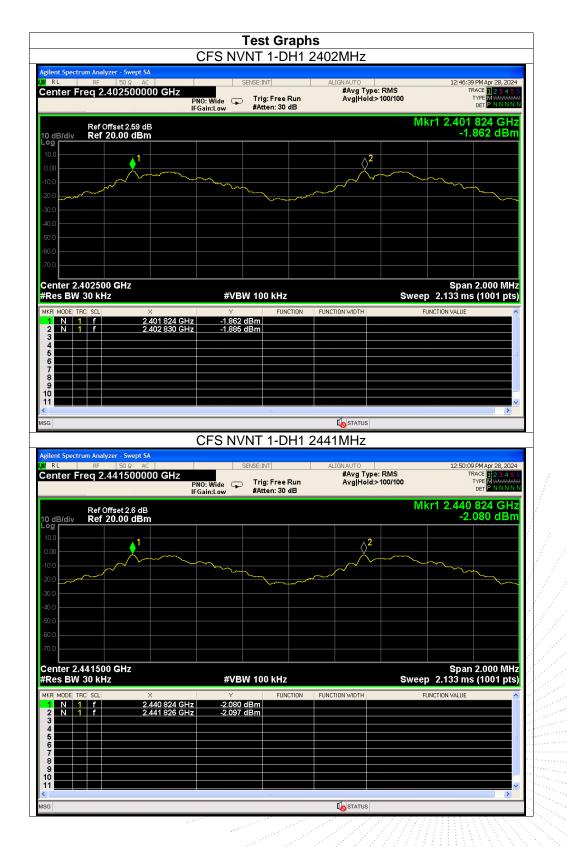
Right

| Condition | Mode | Hopping Freq1 (MHz) | Hopping Freq2 (MHz) | HFS (MHz) | Limit (MHz) | Verdict |
|-----------|-------|------------------------|------------------------|-----------|-------------|---------|
| NVNT | 1-DH1 | 2401.824 | 2402.83 | 1.006 | 0.025 | Pass |
| NVNT | 1-DH1 | 2440.824 | 2441.826 | 1.002 | 0.025 | Pass |
| NVNT | 1-DH1 | 2478.828 | 2479.822 | 0.994 | 0.025 | Pass |
| NVNT | 2-DH1 | 2401.824 | 2402.826 | 1.002 | 0.025 | Pass |
| NVNT | 2-DH1 | 2440.83 | 2441.826 | 0.996 | 0.025 | Pass |
| NVNT | 2-DH1 | 2478.828 | 2479.824 | 0.996 | 0.025 | Pass |
| NVNT | 3-DH1 | 2401.824 | 2402.826 | 1.002 | 0.025 | Pass |
| NVNT | 3-DH1 | 2440.824 | 2441.824 | 1 | 0.025 | Pass |
| NVNT | 3-DH1 | 2478.826 | 2479.826 | 1 | 0.025 | Pass |

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| ilent Spectrum Analyzer R L RF | 50 Ω AC | SENSE:INT | ALIGN AUTO | 12:52:00 PM Apr 28, 2024 |
|---|-----------------------|---|-------------------------------------|---|
| enter Freq 2.47 | 9500000 GHz |): Wide 😱 Trig: Free Run ain:Low #Atten: 30 dB | #Avg Type: RMS Avg Hold:>100/100 | TRACE 12345 TYPE MWWWW DET PNNNN |
| | et 2.61 dB .00 dBm | | | /lkr1 2.478 828 GH: -1.838 dBn |
| 9g | | | | |
| .00 | | | | ~~ |
| | | | | |
| D.0 | | | | |
| | | | | |
| 0.0 0.0 | | | | |
| enter 2.479500 C | | | | Span 2.000 MH |
| Res BW 30 kHz | 962 | #VBW 100 kHz | Swe | ep 2.133 ms (1001 pts |
| (R MODE TRC SCL | × 2.478 828 GHz | Y FUNCTION -1.838 dBm | FUNCTION WIDTH | FUNCTION VALUE |
| 2 N 1 f 3 4 | 2.479 822 GHz | -1.823 dBm | | |
| 5 6 | | | | |
| 7 B 9 | | | | |
| 0 | | | | |
| 3 | | | I STATUS | > |
| | C | FS NVNT 2-DH1 | 2402MHz | |
| ilent Spectrum Analyzer R L RF | - Swept SA 50 Ω AC | SENSE:INT | ALIGN AUTO | 12:54:40 PM Apr 28, 202 |
| enter Freq 2.40 | PNO |): Wide 😱 Trig: Free Run ain:Low #Atten: 30 dB | #Avg Type: RMS Avg Hold:>100/100 | TRACE 12345 TYPE MWWWW DET PNNNN |
| dB/div Ref 20. | et 2.59 dB .00 dBm | | | //kr1 2.401 824 GH -1.725 dBr |
| | | | | |
| .00 | | | \wedge^2 | |
| | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | |
| | | | | |
| 0.0 | | | | |
| D.0 D.0 | | | | |
| D.0 D.0 | | | | |
| 1.0 | | | | |
| 2.0 | SHZ | #VBW 100 kHz | Swe | Span 2.000 MH ep 2.133 ms (1001 pts |
| enter 2.402500 C Res BW 30 kHz | X | Y FUNCTION | SW6 | Span 2.000 MH ep 2.133 ms (1001 pts FUNCTION VALUE |
| 00 | | | | ep 2.133 ms (1001 pts |
| 00 | × 2.401 824 GHz | Y FUNCTION -1.725 dBm | | ep 2.133 ms (1001 pts |
| 0.0 | × 2.401 824 GHz | Y FUNCTION -1.725 dBm | | Span 2.000 MH rep 2.133 ms (1001 pts FUNCTION VALUE |
| 000 000 000 enter 2.4025000 (Res BW 30 kHz KR MODE TRC ScLI 2 N 1 f 2 N 1 f 3 4 5 5 6 - 7 - 8 - 9 - 0 - 1 | × 2.401 824 GHz | Y FUNCTION -1.725 dBm | | ep 2.133 ms (1001 pts |

Edition: B.2



| ilent Spectrum Analyzer - | Swept SA | S NVNT 2-DH1 | | | |
|--|-----------------------|---|---|--|---|
| RL RF 5 enter Freq 2.441 | 500000 GHz | SENSE:INT Wide Trig: Free Run ::Low #Atten: 30 dB | ALIGNAUTO #Avg Type: RMS Avg Hold:>100/100 | 12:57:04 PMA; TRACE TYPE DET | r 28, 202] 2 3 4 5 1 4 5 N N N N |
| Ref Offset dB/div Ref 20.0 | 2.6 dB 0 dBm | | | Mkr1 2.440 830 -2.678 |) GH dBr |
| | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | ~~ |
| enter 2.441500 GI | | #VBW 100 kHz | | Span 2.00 weep 2.133 ms (10 | |
| | × 2.440 830 GHz | Y FUNCTION | FUNCTION WIDTH | FUNCTION VALUE | |
| 3 4 4 5 6 6 7 8 9 9 9 9 9 9 9 9 9 9 9 1 9 9 1 1 | | | L STATUS | | |
| lent Spectrum Analyzer - | | S NVNT 2-DH1 | 2480MHz | | |
| RL RF 5 enter Freq 2.479 | ο Ω AC 1500000 GHz | SENSE:INT Wide Trig: Free Run ::Low #Atten: 30 dB | ALIGN AUTO #Avg Type: RMS Avg Hold:>100/100 | 01:00:40 PM Ap TRACE TYPE DET | r 28, 202 2 3 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| Ref Offset dB/div Ref 20.0 | :2.61 dB 0 dBm | | | Mkr1 2.478 828 -1.828 | dBr |
| 0.0 | | | 2 2 | | |
| | | | | | ~ |
| 0.0 0.0 0.0 | | | | | |
| 0.0 | | | | | |
| | 1Z | #VBW 100 kHz | 9 | Span 2.00 weep 2.133 ms (10 | 01 pts |
| enter 2.479500 GI Res BW 30 kHz | | | FUNCTION WIDTH | FUNCTION VALUE | |

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| 01 05 | Swept SA | 05405.72 | | 01.00.07.0114 02.000 |
|---|--------------------------------------|---|---|---|
| RL RF 5 enter Freq 2.402 | 500000 GHz | Jense:INT Vide Trig: Free Run Low #Atten: 30 dB | ALIGN AUTO #Avg Type: RMS Avg Hold:>100/100 | 01:02:35 PM Apr 28, 202 TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N |
| Ref Offset dB/div Ref 20.0 | 2.59 dB 0 dBm | | N | 1kr1 2.401 824 GH -2.062 dBn |
| 0.0 | | | | |
| 0.0 | | | | |
| 0.0 0.0 0.0 | | | | |
| enter 2.402500 GI Res BW 30 kHz | łz | #VBW 100 kHz | | Span 2.000 MH ep 2.133 ms (1001 pts |
| KR MODE TRC SCL 1 N 1 f 2 N 1 f 3 | × 2.401 824 GHz 2.402 826 GHz | Y FUNCTION -2.062 dBm -2.069 dBm | FUNCTION WIDTH | FUNCTION VALUE |
| B | | | I STATUS | <u>></u> |
| | CF | S NVNT 3-DH1 2 | 2441MHz | |
| ilent Spectrum Analyzer - RL RF 5 enter Freq 2.441 | ο Ω AC 500000 GHz | SENSE:INT Vide - Trig: Free Run Low #Atten: 30 dB | ALIGNAUTO #Avg Type: RMS Avg Hold>100/100 | 01:04:58 PM Apr 28, 202 TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N |
| Ref Offset dB/div Ref 20.0 | : 2.6 dB | | N | 1kr1 2.440 824 GH -2.507 dBr |
| .00 | | | | |
| | | | | |
| 0.0 | | | | |
| 0.0 0.0 0.0 | | | | |
| and | Hz | #VBW 100 kHz | Swe | Span 2.000 MH ep 2.133 ms (1001 pts |
| CO CO CO CO CO CO CO CO CO CO | Hz 2.440 824 GHz 2.441 824 GHz | #VBW 100 kHz 2.507 dBm -2.462 dBm | Swe | Span 2.000 MH ep 2.133 ms (1001 pts FUNCTION VALUE |

Edition: B.2



| | CFS NVNT | 3-DH1 2 | 480MHz | | | |
|---|--------------------------------|------------------------|-------------------------|---------|---|--|
| Agilent Spectrum Analyzer - Swept SA | | | | | | |
| X RL RF 50 Ω AC Center Freq 2.479500000 GHz | SENSE:II | | ALIGNAUTO #Avg Type: | | 01:06:33 PM Apr 28, 2024 TRACE 1 2 3 4 5 6 | |
| | | g:FreeRun ten:30 dB | Avg Hold:> | 100/100 | TYPE MWWWWW DET P N N N N N | |
| Ref Offset 2.61 dB Mkr1 2.478 826 GHz 10 dB/div Ref 20.00 dBm -2.230 dBm | | | | | | |
| 10.0 | | | | | | |
| | | | 2 ² | | | |
| -10.0 | | | | | \sim | |
| -20.0 | | | | | | |
| -30.0 | | | | | | |
| -50.0 | | | | | | |
| -60.0 | | | | | | |
| -70.0 | | | | | | |
| Center 2.479500 GHz Span 2.000 MHz #Res BW 30 kHz #VBW 100 kHz Sweep 2.133 ms (1001 pts) | | | | | | |
| MKR MODE TRC SCL X | Y | FUNCTION | FUNCTION WIDTH | FUNC | TION VALUE | |
| 1 N 1 f 2.478 826 0 2 N 1 f 2.479 826 0 | Hz -2.230 dBm Hz -2.322 dBm | | | | | |
| 3 | | | | | | |
| 56 | | | | | | |
| 7 8 | | | | | | |
| 9 10 | | | | | | |
| 11 < | | | | | × | |
| MSG 🚺 | | | | | | |

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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.

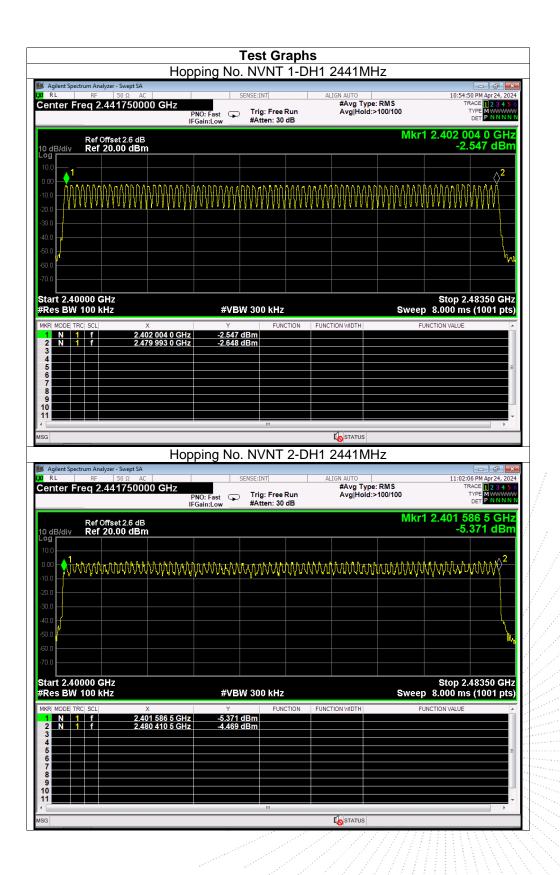
3. Allow the trace to stabilize. It may prove necessary to break the span up to sections. in order to clearly show all of the hopping frequencies. The limit is specified in one of the subparagraphs of this Section.
4. Set the spectrum analyzer: Start Frequency = 2.4GHz, Stop Frequency = 2.4835GHz. Sweep=auto;

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 |



Left





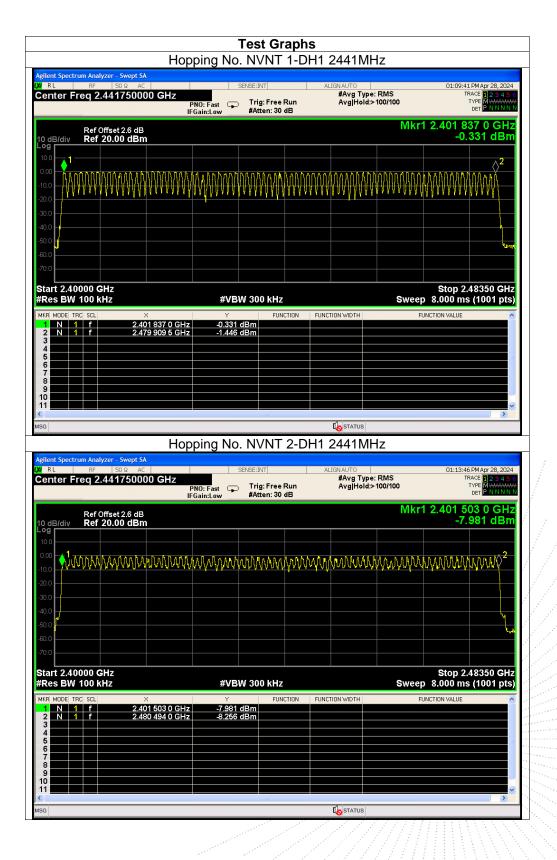
| Нор | ping No. NVNT | 3-DH1 2441N | /Hz | |
|--|---|-----------------|------------------------|---|
| | SENSE:INT NO: Fast Trig: Free Gain:Low #Atten: 30 | Run Avg Hol | /pe: RMS d:>100/100 | 11:06:10 PM Apr 24, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N N |
| Ref Offset 2.6 dB 10 dB/div Ref 20.00 dBm 10 0 1 0 00 1 -100 - -200 - -300 - -40.0 - -60.0 - -70.0 - | MAMAMAMAA | | | .401 837 0 GHz 1.620 dBm |
| Start 2.40000 GHz #Res BW 100 kHz | #VBW 300 kHz | 2 | Sweep 8 | Stop 2.48350 GHz .000 ms (1001 pts) |
| MKR MODE[TC[SCI X 1 N 1 f 2:401 837.0 GHz 2 N 1 f 2:401 837.0 GHz 3 4 - <t< td=""><td>Y FUI 1.620 dBm 2.707 dBm</td><td></td><td>FUNCT</td><td>ION VALUE</td></t<> | Y FUI 1.620 dBm 2.707 dBm | | FUNCT | ION VALUE |
| MSG | | K STATUS | | |

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Right





| Нор | ping No. NVNT | 3-DH1 2441M | Hz | |
|--|--|----------------------|---|--|
| | SENSE:INT PNO: Fast Trig: Free I Gain:Low #Atten: 30 | | | 58 PM Apr 28, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P.N.N.N.N. |
| Ref Offset 2.6 dB 10 dB/div Ref 20.00 dBm 10 0 1 000 1 000 1 -10.0 -10.0 -20.0 -10.0 -30.0 -10.0 -60.0 -10.0 | บบงางกุญงาก | WWWWWWWWW | | 0.771 dBm |
| Million Million <t< td=""><td>#VBW 300 kHz -0.771 dBm -6.674 dBm</td><td>CTION FUNCTION WIDTH</td><td>Stop : Sweep 8.000 n FUNCTION VALUE</td><td></td></t<> | #VBW 300 kHz -0.771 dBm -6.674 dBm | CTION FUNCTION WIDTH | Stop : Sweep 8.000 n FUNCTION VALUE | |
| 4 5 6 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | | | | × |

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14. Dwell Time

14.1 Block Diagram Of Test Setup



14.2 Limit

≤0.4 Second

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

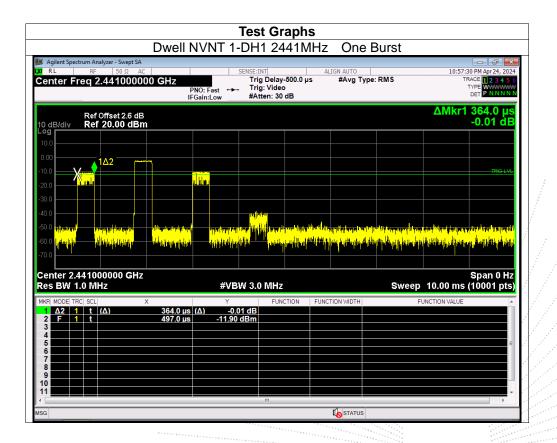
DH5 Packet permit maximum 1600 / 79 / 6 hops per second in each channel (5 time slots RX, 1 time slot TX). DH3 Packet permit maximum 1600 / 79 / 4 hops per second in each channel (3 time slots RX, 1 time slot TX). DH1 Packet permit maximum 1600 / 79 / 2 hops per second in each channel (1 time slot RX, 1 time slot TX). So, the Dwell Time can be calculated as follows: DH5:1600/79/6*0.4*79*(MkrDelta)/1000 DH3:1600/79/2*0.4*79*(MkrDelta)/1000 DH1:1600/79/2*0.4*79*(MkrDelta)/1000 Remark: Mkr Delta is once pulse time.

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| Left | | | | | | | | |
|-----------|-------|--------------------|-----------------------|--------------------------------|----------------|------------------------|---------------|---------|
| Condition | Mode | Frequency (MHz) | Pulse Time (ms) | Total Dwell Time (ms) | Burst Count | Period Time (ms) | Limit (ms) | Verdict |
| NVNT | 1-DH1 | 2441 | 0.364 | 116.116 | 319 | 31600 | 400 | Pass |
| NVNT | 1-DH3 | 2441 | 1.621 | 257.739 | 159 | 31600 | 400 | Pass |
| NVNT | 1-DH5 | 2441 | 2.867 | 303.902 | 106 | 31600 | 400 | Pass |
| NVNT | 2-DH1 | 2441 | 0.373 | 119.36 | 320 | 31600 | 400 | Pass |
| NVNT | 2-DH3 | 2441 | 1.628 | 260.48 | 160 | 31600 | 400 | Pass |
| NVNT | 2-DH5 | 2441 | 2.879 | 305.174 | 106 | 31600 | 400 | Pass |
| NVNT | 3-DH1 | 2441 | 0.37 | 118.03 | 319 | 31600 | 400 | Pass |
| NVNT | 3-DH3 | 2441 | 1.631 | 259.329 | 159 | 31600 | 400 | Pass |
| NVNT | 3-DH5 | 2441 | 2.881 | 308.267 | 107 | 31600 | 400 | Pass |



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| | Dwell N | NVNT 1-DH | 13 24411 | /IHZ ONE | Burst | |
|---|--|---|--|--|--|---|
| Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω A enter Freq 2.4410000 | 000 GHz | NO East - T | rig Delay-500.0 µ rig: Video Atten: 30 dB | ALIGN AUTO µs #Avg Ty | /pe: RMS | 11:08:13 PM Apr 24, 2 TRACE 1 2 3 4 TYPE WWWW DET P NNN |
| Ref Offset 2.6 dE 0 dB/div Ref 20.00 dB | | | | | | ΔMkr1 1.621 m 4.74 d |
| | <u>1∆2</u> | | | | | |
| 0.0 X2 | | | | | | TRIG L |
| 80.0 | | | | | | |
| 0.0 | | | | | | |
| 0.0 <mark>Applyay</mark> | ra ny fijina na ili a f Ta Li na pita pita ili at | Anderska ander son ander son In <mark>de konstantig og son spælareter a</mark> t son son son son som | <mark>Malak</mark> ing temperatu Malaking temperatu Malaking temperatu | n dan ka si sa da ya da da da ya sa da Na maka ka da da da da ya da da ya ya da da ya ya da da da da da ya ya d | | a sa ma ni sika ni kili na kila kila kila kila kila ka na sa k Angla kila na munana ka ni sa sila kila kila ma na sa Angla kila na munana ka ni sa sila kila kila ma na sa sa |
| enter 2.441000000 GHz | nt fer her here | collification and solid con- | ¹⁴⁴ 19 ¹ 1919 Jin Alegaria, pilosofi Interneting | | n a k - berl ₍₁₀ - berl ^k fin s k - der (1 | |
| 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | z X | #VBW 3 | .0 MHz | | Sweep | Span 0 H |
| 0.0 Αμμίαι 0.0 Αμμίαι enter 2.441000000 GHz es BW 1.0 MHz KR MODE TRC SCL 1 Δ2 2 F 1 Δ2 3 - | z - ^{Intern} ikopinali z | #VBW 3 | .0 MHz | | Sweep | Span 0 H 10.00 ms (10001 pt |
| 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | z 1.621 ms | #VBW 3 | .0 MHz | | Sweep | Span 0 H 10.00 ms (10001 pt |
| 0.0 strain enter 2.441000000 GHz es BW 1.0 MHz RR MODE TRC SCI 1 Δ2 1 t (Δ) 2 F 1 t 3 4 | z 1.621 ms | #VBW 3 | .0 MHz | | Sweep | Span 0 H 10.00 ms (10001 pt |
| 0.0 strain enter 2.441000000 GHz es BW 1.0 MHz RR MODE TRCI SCI 1 Δ2 1 t (Δ) 2 F 1 t 3 4 5 6 6 7 8 9 9 | z 1.621 ms | #VBW 3 | .0 MHz | | Sweep | Span 0 H 10.00 ms (10001 pt |

| | Dwell r | NVNT 1-DH | 5 244 110 | | Burst | | |
|---|---------------|---|--|---|---|---|---------------------------------------|
| Agilent Spectrum Analyzer - Swep RL RF 50 Ω | | SENSE:I | NT | ALIGN AUTO | | 11:09:06 PM | Apr 24 2 |
| enter Freq 2.44100 | 0000 GHz | NO: Fast ↔ Tri | g Delay-500.0 µs g: Video tten: 30 dB | | pe: RMS | TRACE TYPE | 1 2 3 4 WWWW P N N N |
| Ref Offset 2.6 D dB/div Ref 20.00 d | | | | | | ΔMkr1 2.8 5 | 67 m .04 d |
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| .00 | | <u>_</u> 1∆2 | | | | | TRIG L |
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| 0.0 <mark>titlent</mark> | | land and an index of the second s Index and a second s | With the day of the strength o | hedd e bredd de bellad. <mark>1924 ac an </mark> | | l barrel beginnerse beter i begen reg t tend om værget begen | or frank a p ^{il} egy (ka |
| enter 2.441000000 G | Hz | | newigitaria and a state of a state | hed og en frem hede størtede I felse <mark>de skiper heder i beskiper</mark> | in the second | nang nang nang nang nang nang nang nang | an 0 I |
| enter 2.441000000 G es BW 1.0 MHz | X | #VBW 3.0 | newigitaria and a state of a state | FUNCTION WIDTH | Sweep | sp | an 0 I |
| 0.0 μμ. μμ. enter 2.4410000000 G es BW 1.0 MHz KR MODE TRC SCL 1 Δ2 1 t (Δ) 2 F 1 t | | #VBW 3.0 | naiitan չվարեր) MHz | <mark>i ta kina kina kenti saku s</mark> | Sweep | Sp 10.00 ms (10 | an 0 H |
| $\begin{array}{c} 0.0 \\ \hline \\ 0.0 \\ \hline \\ enter 2.4410000000 \\ es BW 1.0 \\ MDE \\ TC \\ SCL \\ \hline \\ 1 \\ 2 \\ F \\ 1 \\ t \\ 3 \\ 4 \\ \hline \end{array}$ | × 2.867 ms | #VBW 3.((Δ) 5.04 dB | naiitan չվարեր) MHz | <mark>i ta kina kina kenti saku s</mark> | Sweep | Sp 10.00 ms (10 | an 0 I |
| 0.0 μ μ 0.0 μ μ | × 2.867 ms | #VBW 3.((Δ) 5.04 dB | naiitan չվարեր) MHz | <mark>i ta kina kina kenti saku s</mark> | Sweep | Sp 10.00 ms (10 | an 0 I |
| 2 F 1 t 3 4 6 7 8 | × 2.867 ms | #VBW 3.((Δ) 5.04 dB | naiitan չվարեր) MHz | <mark>i ta kina kina kenti saku s</mark> | Sweep | Sp 10.00 ms (10 | an 0 H |
| 0.0 μ μ enter 2.44 10000000 G cs BW 1.0 MHz k MODE TRC SCL 1 1 Δ2 1 t 3 4 5 5 6 - - 7 7 - - 8 9 - - - | × 2.867 ms | #VBW 3.((Δ) 5.04 dB | naiitan չվարեր) MHz | <mark>i ta kina kina kenti saku s</mark> | Sweep | Sp 10.00 ms (10 | an 0 I |
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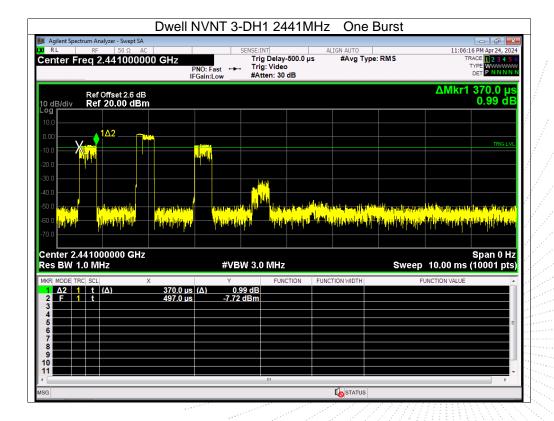


| | Dwell N | IVNT 2-DH | l1 2441N | 1Hz One | Burst | |
|--|---------------------|---|---|--|---|--|
| Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC Center Freq 2.44100000 | PN | IO:East ⊷⊷ Tri | INT ig Delay-500.0 μ ig: Video tten: 30 dB | ALIGN AUTO s #Avg Ty | /pe: RMS | 11:02:12 PM Apr 24, 20 TRACE 12345 TYPE WWWWW DET P NN N |
| Ref Offset 2.6 dB 10 dB/div Ref 20.00 dBm | | | | | | ∆Mkr1 373.0 µ -0.38 dI |
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| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 373.0 µs (| #VBW 3. | 0 MHz | | Sweep | Span 0 H 10.00 ms (10001 pt |
| Constraint Automatical and a straint 700 Automatical and a straint Center 2.441000000 GHz Res BW 1.0 MHz WKR MODE TRC SCL 1 A2 1 t 2 F 1 t 3 A 4 S 5 6 7 8 | 373.0 µs (| #VBW 3. | 0 MHz | | Sweep | Span 0 H 10.00 ms (10001 pts |
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| BOD 0 Mitty of the second | 373.0 µs (| #VBW 3. | 0 MHz | | Sweep | Span 0 H 10.00 ms (10001 pts |

| | Dwell I | | | | | Burst | | |
|--|---------------|--|--|---|--|--|---|---|
| Agilent Spectrum Analyzer - Swept SA | | | | | | | | - F |
| RL RF 50 Ω A enter Freq 2.4410000 | 000 GHz | PNO: Fast ↔→→ | ISE:INT Trig Delay-50 Trig: Video #Atten: 30 dB | 0.0 µs | GN AUTO #Avg Type | e: RMS | | 56 PM Apr 24, 2 RACE 1 2 3 4 TYPE WWWW DET P N N N |
| Ref Offset 2.6 dE dB/div Ref 20.00 dB | | | | | | | ΔMkr1 | 1.628 m -0.94 d |
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| 00 00 00 00 00 00 00 00 00 00 00 00 00 | nt far funden | altındır. Anadıkan bi | 1990 - Harden Alexandre Al | nta kati ta kati Na kati ta kati | d <mark>a na sana si kumukan</mark> Ng Kul _a A pikang bula | | 10.00 ms | Span 0 I |
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| 0 μητιή 0.0 μητή 0.0 μητή 0.0 μητή enter 2.441000000 GHz es BW 1.0 MHz R MODE TRC SCL 1 Δ2 1 1 Δ2 1 | z 1.628 ms | <mark>μυψημία μ</mark> #VBW (Δ) -0.94 (| 3.0 MHz | | <mark>natul anatolina ad</mark> u | Sweep | 10.00 ms | Span 0 I |
| enter 2.441000000 GHz es BW 1.0 MHz RR MODE TRC SCL 1 42 1 t (A) 2 F 1 t | z | <mark>μυψημία μ</mark> #VBW (Δ) -0.94 (| 3.0 MHz | | <mark>natul anatolina ad</mark> u | Sweep | 10.00 ms | Span 0 I |
| enter 2.441000000 GHz es BW 1.0 MHz | z 1.628 ms | <mark>μυψημία μ</mark> #VBW (Δ) -0.94 (| 3.0 MHz | | <mark>natul anatolina ad</mark> u | Sweep | 10.00 ms | Span 0 I |
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| 0 Image: Arrow of the second sec | z 1.628 ms | <mark>μυψημία μ</mark> #VBW (Δ) -0.94 (| 3.0 MHz | | <mark>natul anatolina ad</mark> u | Sweep | 10.00 ms | Span 0 I |



| | Dwell NVNT 2-DH | H5 2441MHz | One Burst | |
|--|--|--|---|--|
| Agilent Spectrum Analyzer - Swept SA RL RF So Ω AC Center Freq 2.44100000 | DO GHZ T | rig Delay-500.0 µs rig: Video Atten: 30 dB | IGN AUTO #Avg Type: RMS | 11:10:48 PM Apr 24, 20 TRACE 1234 S TYPE WWWWW DET PNNN |
| Ref Offset 2.6 dB I0 dB/div Ref 20.00 dBm | 1 | | | ΔMkr1 2.879 m -0.67 d |
| - og 10.0 | | | | |
| | | | | TRIG L1 |
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| 40.0 | | an di shi ya shi ya da di ya 19 ki ya k | n kon an al a santa a | |
| | and the second | | and the state of the second | لمحتابه بلبال عراب بالشابلة بالشعدة وغبانا بالش |
| | | an i sa waan i na araa ahaa ahaa ahaa ahaa ahaa ahaa a | n de la califación de la c A participada en la califación de la califa A califación de la califac | |
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| 20.0 Control C | #VBW 3 | .0 MHz | Sweep | Span 0 H |
| 30.0 Δ enter 2.441000000 GHz ees BW 1.0 MHz KR MODE TRC SCL Δ2 1 Δ2 F 2 F 4 t | #vBW 3 | .0 MHz | Sweep | Span 0 H 10.00 ms (10001 pt |
| 30.0 Automatic enter 2.44 1000000 GHz ees BW 1.0 MHz KRI MODE TRC SCL 2 F 2 F 3 4 | #VBW 3 | .0 MHz | Sweep | Span 0 H 10.00 ms (10001 pt |
| 30 0 0 initial 0 icenter 2.44 10000000 GHz icenter 2.44 100000000 GHz icenter 2.44 100000000 GHz icenter 2.44 100000000 GHz icenter 2.44 100000000 GHz icenter 2.44 1000000000000 GHz icenter 2.44 100000000000000000000000000000000000 | #VBW 3 | .0 MHz | Sweep | Span 0 H 10.00 ms (10001 pt |
| 30.0 Image: Constraint of the second se | #VBW 3 | .0 MHz | Sweep | Span 0 H 10.00 ms (10001 pt |
| 30.0 μ Contraction μ Contreaction | #VBW 3 | .0 MHz | Sweep | Span 0 H 10.00 ms (10001 pt |



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| | Dwell N | VNT 3-DH | 13 24411 | /IHz One | Burst | |
|---|--|--|---|---|---|---|
| I Agilent Spectrum Analyzer - Swept SA RL RF 50 Q AC enter Freq 2.44100000 | 00 GHz | NO East +++ T | ig Delay-500.0 j rig Delay-500.0 j rig: Video Atten: 30 dB | ALIGN AUTO µs #Avg Ty | pe: RMS | 11:11:55 PM Apr 24, 20 TRACE 1 2 3 4 TYPE WWWWM DET P NNN |
| Ref Offset 2.6 dB 0 dB/div Ref 20.00 dBm | 1 | | | | | ΔMkr1 1.631 m 1.60 d |
| | <u>_</u> 1∆2 | | | | | |
| 0.0 X2 | | | | | | TRIG L |
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| | | | | | | |
| 0.0 <mark>(1999)(199)</mark> 0.0 <mark>8-4[104]₍4]</mark> | | n hannya i taina na filana anna in ^{Inn} a ang ing ing ing ing ing ing ing ing ing i | and a link a link at the state of the | n the support of a little sectors a the support of a support of the sectors of the support of the support of the support of the support of the sup | a <mark>diterrational de la deservada de Esta de la deservada de la deserv</mark> | and temperature conditions are with the left to The left of the state |
| 0.0 | and the second s | | | athan pan baya baratan Bitu yaka ya baalihaas Bitu yaka ya baalihaas | <mark>dinantan katika</mark> | Span 0 H |
| 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | | ^{Ind} patric (Red)by million of #VBW 3 | .0 MHz | | Sweep | Span 0 H |
| 0.0 μημη 0.0 μημη enter 2.441000000 GHz es BW 1.0 MHz KR MODE TRC SCL > 1 Δ2 1 t (Δ) 2 F 1 t | in a second provide a second sec | ^{hel} ne, k (e _s t)d _{ale} , ktore #VBW 3 | O MHZ | ini ada <u>a</u> da dilas | Sweep | Span 0 F 10.00 ms (10001 pt |
| 0.0 μημη 0.0 μημη enter 2.441000000 GHz es BW 1.0 MHz KR MODE TRC SCL > 1 Δ2 1 t (Δ) 2 F 1 t | × 1.631 ms | ^α γρ <u>η η βαμλημα αίλη η α</u> #VBW 3 (Δ) 1.60 de | O MHZ | ini ada <u>a</u> da dilas | Sweep | Span 0 F 10.00 ms (10001 pt |
| 0.0 μημή 0.0 μ μμ enter 2.441000000 GHz es BW 1.0 MHz KRI MODE TRC: SCL 2 F 1 A2 4 - 5 - 6 - | × 1.631 ms | ^α γρ <u>η η βαμλημα αίλη η α</u> #VBW 3 (Δ) 1.60 de | O MHZ | ini ada <u>a</u> da dilas | Sweep | обрановской расси така Span 0 Н 10.00 ms (10001 pt инстіон Value |
| 0.0 μη μη 0.0 μη μη enter 2.44 1000000 GHz es BW 1.0 MHz MODE TRC SCL 1 Δ2 2 Γ 3 4 5 6 7 8 9 | × 1.631 ms | ^α μετατιματά ματά ματά ματά ματά ματά ματά ματά | O MHZ | ini ada <u>a</u> da dilas | Sweep | Span 0 F 10.00 ms (10001 pt |
| 0.0 untripin 0.0 untripin <td>× 1.631 ms</td> <td>^αμετατιματά ματά ματά ματά ματά ματά ματά ματά</td> <td>O MHZ</td> <td>ini ada <u>a</u>da dilas</td> <td>Sweep</td> <td><mark>- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1</mark></td> | × 1.631 ms | ^α μετατιματά ματά ματά ματά ματά ματά ματά ματά | O MHZ | ini ada <u>a</u> da dilas | Sweep | <mark>- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1</mark> |

| | Dwell N | VNT 3-D | H5 24 | 441MHz | One E | Burst | | |
|--|----------------------|--|---|---|--|---------------|--|--|
| Agilent Spectrum Analyzer - Swe | 1 | | | | | | | - ¢ |
| RL RF 50 S enter Freq 2.4410 | Р | NO: Fast ++++ | SE:INT Trig Delay Trig: Video #Atten: 30 | -500.0 µs o | IGN AUTO #Avg Type | RMS | TI | 11 PM Apr 24, 2 RACE 1 2 3 4 TYPE WWWW DET PNNN |
| Ref Offset 2 dB/div Ref 20.00 | | | | | | | ∆Mkr1 | 2.881 m 1.65 d |
| | | 1Δ2 | | | | | | |
| .00 X2 | | | | | | | | TRIG L |
| 0.0 | | | | | | | | |
| 0.0 | | | | | | | | |
| 0.0 <mark>(1994)00</mark> 0.0 <mark>(1994)00</mark> | | en der en teldige Under standstande | ali (kati Karika <mark>ali (ki ka astro</mark> | n shi ka ke ng Bah Main La ka sa sa sa sa sa sa sa k | dala (stylepoperaties di angli (stylepoperaties | | en de la de la politie y La bandas de la como d | nerre literet dester Als solo allantes e |
| | | والبياب الملقي | J | | dian a luc | י יון איירף י | Just all M. 4. | i. Ultration |
| enter 2.441000000 es BW 1.0 MHz | GHz | #VBW | 3.0 MHz | | | Sweep | 10.00 ms | Span 0 I (10001 pt |
| KR MODE TRC SCL | Х | Y | | CTION FUNC | TION WIDTH | FI | JNCTION VALUE | |
| 1 Δ2 1 t (Δ) 2 F 1 t | 2.881 ms 497.0 µs | (Δ) 1.65 c -3.96 dB | m B | | | | | |
| 3 | | | | | | | | |
| 5 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 0 | | | | | | | | |
| | | | | | | | | • |
| | | | | | | | | |

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| Right | | | | | | | | |
|-----------|-------|--------------------|-----------------------|--------------------------------|----------------|------------------------|---------------|---------|
| Condition | Mode | Frequency (MHz) | Pulse Time (ms) | Total Dwell Time (ms) | Burst Count | Period Time (ms) | Limit (ms) | Verdict |
| NVNT | 1-DH1 | 2441 | 0.373 | 118.987 | 319 | 31600 | 400 | Pass |
| NVNT | 1-DH3 | 2441 | 1.621 | 259.36 | 160 | 31600 | 400 | Pass |
| NVNT | 1-DH5 | 2441 | 2.869 | 306.983 | 107 | 31600 | 400 | Pass |
| NVNT | 2-DH1 | 2441 | 0.38 | 121.22 | 319 | 31600 | 400 | Pass |
| NVNT | 2-DH3 | 2441 | 1.633 | 261.28 | 160 | 31600 | 400 | Pass |
| NVNT | 2-DH5 | 2441 | 2.842 | 301.252 | 106 | 31600 | 400 | Pass |
| NVNT | 3-DH1 | 2441 | 0.381 | 121.539 | 319 | 31600 | 400 | Pass |
| NVNT | 3-DH3 | 2441 | 1.63 | 259.17 | 159 | 31600 | 400 | Pass |
| NVNT | 3-DH5 | 2441 | 2.881 | 305.386 | 106 | 31600 | 400 | Pass |

| | | Dwell I | NVNT 1- | Test Gr a DH1 24 | | One | Burst | | |
|--|---|---|---|---|-----------|---------------------|--------------------------------|-------------------------------|---|
| (RL | Analyzer - Swept S RF 50 Ω A0 2.4410000 | 00 GHz | PNO: Fast ↔ Gain:Low | GENSE:INT Trig Delay- Trig: Video #Atten: 30 d | 500.0 µs | IGNAUTO #Avg Typ | e: RMS | | 7 PM Apr 28, 2024 RACE 1 2 3 4 5 6 TYPE WWWWWW DET P N N N N N |
| 0 dB/div | ef Offset 2.6 dB ef 20.00 dBn | | | | | | | ∆Mkr1 | 373.0 μs -3.98 dB |
| .og 10.0 0.00 | - 142 | | | | | | | | |
| 10.0 X2 20.0 | | | | | | | | | TRIG LVL |
| 30.0 40.0 50.0 <mark>/ 4009/10</mark> 50.0 <mark>/ 4009/10</mark> | - Alder Josef States of a group of And a grow, takes of a group of | a konga na kong kang kang kang kang kang kang kang ka | a lasta <mark> </mark> ayadablyat | le din se station and a second | | | bill bi and to only and a big. | | |
| 70.0 | | | | | | | ing the second second | a la ni 'r sin hand raft I | |
| enter 2.441 les BW 1.0 | 1000000 GHz MHz | | #VB | W 3.0 MHz | | | Sweep | 10.00 ms | Span 0 Hz (10001 pts) |
| ikr mode trc s | t (Δ) | × 373.0 µs 498.0 µs | | FUNC 8 dB dBm | TION FUNC | TION WIDTH | FL | JNCTION VALUE | <u>^</u> |
| 2 F 1 4 | | 498.0 µs | | | | | | | |
| 3 4 5 6 7 8 9 | | 498.0 µs | | | | | | | |
| 3 4 5 6 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | | 498.0 µs | | | | | | | |

Edition: B.2

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| | Dwell I | VNT 1- | DH3 24 | 41MHz | One | Burst | | |
|--|--|---|---|---|----------------------|---|--|---|
| Agilent Spectrum Analyzer - Swept SA Contended RE 50 Ω AC Center Freq 2.44100000 | F | NO: Fast ↔ Gain:Low | ENSE:INT Trig Delay Trig: Video #Atten: 30 | -500.0 µs | LIGNAUTO #Avg Typ | e: RMS | TR | PM Apr 28, 2024 ACE 1 2 3 4 5 YPE WWWWWW DET <mark>P N N N N I</mark> |
| Ref Offset 2.6 dB 10 dB/div Ref 20.00 dBm Log | | | | | | | ΔMkr1 1 | .621 ms 0.78 dB |
| 0.00 | •1∆2 | | | | | | | TRIG LVL |
| -10.0 2 | | | | | | | | |
| -40.0 -50.0 44.450 | til tenter stelle Til fregtigen det | illindelidelinder Nyrophiliten feltete | | u da sin di bilan da La sin da sin da bilan da | den file som dette | la di tang mang bayan Miti pang mang bayan na sa | ana ang kang ang kang kang kang kang kan | teredisinded (inte ¹ 161 - ₁ 174 - 1174 - 1174 - 1174 - 1174 - 1174 - 1174 - 1174 - 1174 - 1174 - 1174 - 1174 - 1174 - 1174 - 1174 |
| -70.0 Center 2.441000000 GHz Res BW 1.0 MHz | | #VB1 | N 3.0 MHz | | | Sweep | 10.00 ms (| Span 0 Hz 10001 pts |
| MKR MODE TRC SCL X | | Y | | CTION FUNC | TION WIDTH | FI | JNCTION VALUE | <u></u> |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | <u>1.621 ms</u> 498.0 μs | <u>(Δ) 0.7</u> -7.90 | 8 dB dBm | | | | | |
| 9 | | | | | | | | |

| Dwell N | VNT 1-DH5 2441M | Hz One Burst | |
|---|--|--|--|
| | NO: Fast | ALIGNAUTO #Avg Type: RMS | 01:21:58 PMApr 28, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWWW DET P.N.N.N.N |
| Ref Offset 2.6 dB 10 dB/div Ref 20.00 dBm Log | | | ΔMkr1 2.869 ms 3.62 dB |
| | 1 ∆2 | | |
| -10.0 22 | | | TRIG LVL |
| -30.0 -40.0 -50.0 | di na jela na la kon jela kon statistik na na kon kon statistik se | a the log of the state of the s | aka kata waka sigiliki yaki kata kiya kiki asawa yar |
| -60.0 44/444 | the first first of the state of the first first first first | energia ang ing mang nang mang mang mang mang mang nang mang m | <mark>a propaga in provid hyperted de marches al ve</mark> |
| Center 2.441000000 GHz Res BW 1.0 MHz | #VBW 3.0 MHz | Swee | Span 0 Hz 0 10.00 ms (10001 pts) |
| MKR MODE TRC SCL × 1 Δ2 1 t (Δ) 2.869 ms. 2 F 1 t 497.0 μs. | | FUNCTION WIDTH | FUNCTION VALUE |
| 4 5 6 7 | | | 3 |
| 9 10 11 | | | ~ |
| MSG | | STATUS | |

05



| | Dwell N | VNT 2-DH | 1 2441M | Hz One | Burst | |
|--|--|-----------------|---|--|--|--|
| gilent Spectrum Analyzer - Swept SA (RL RF 50Ω AC Center Freq 2.44100000 | 00 GHz | 0:East →→ Tri | NT g Delay-500.0 μs g: Video ten: 30 dB | ALIGN AUTO #Avg Ty | pe: RMS | 01:13:51 PM Apr 28, 202 TRACE 12 3 4 5 TYPE WAAAAAA DET P.N.N.N.N |
| Ref Offset 2.6 dB 10 dB/div Ref 20.00 dBm | | | | | | ΔMkr1 380.0 μ 3.03 dE |
| | | | | | | TRIG LV |
| 20.0 | | Lats. | | | | |
| 40.0 | | | | | | |
| 50.0 <mark>det wheth with the ball</mark> | | | ^{and} a ang ang ang ang ang ang ang ang ang an | and the production of the second s Second second s | alla de la dia de activita alla se la presenta de la compositione alla se la presenta de la compositione | and a short of the state of the |
| 500 40 mm/h and a straight for the straight for straight for the straight for the straight for the str | - <mark>174 - borgester se de de de 1747 - - 1₇₆ 184 <u> 1.00 1.90 de de s</u>e j</mark> | #VBW 3.0 | | norden de service Anna <u>de la service</u> Anna <u>de service</u> Anna <u>de service</u> | | Span 0 H |
| Arr Los < | | Y | | | Sweep | Span 0 H 10.00 ms (10001 pt |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 380.0 µs (2 | Υ Δ) 3.03 dB |) MHz | | Sweep | Span 0 H 10.00 ms (10001 pts |

| | Dwell NVNT 2 | 2-DH3 2441N | 1Hz One E | Burst | |
|--|---|---|---|--|--|
| Agilent Spectrum Analyzer - Swept SA M RL RF 50 Ω AC Center Freq 2.44100000 | 0 GHz PNO: Fast ↔ IFGain:Low | SENSE:INT Trig Delay-500.0 µ ⊶ Trig: Video #Atten: 30 dB | ALIGN AUTO Is #Avg Type | | 23:02 PM Apr 28, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWWW DET P N N N N N |
| Ref Offset 2.6 dB 10 dB/div Ref 20.00 dBm Log | | | | ΔMk | r1 1.633 ms 1.09 dB |
| 10.0 0.00 .10.0 | 1∆2 | | | | TRIG LVL |
| -10.0 X2 -20.0 | | | | | |
| -40.0 -50.0 449-04 -60.0 444-141 | And provide a property of the state of the state in the state of the st | an fan skal (fan falska), en fan de fan fan fan steren. Yn flen wei falska falskal yn steren fan steren yn | an lain la bhliann an Sinn Cina 20 Lini La Statann an Linn an Linn | , dag bergapan kinang babiga basarbar Ipan, agan <mark>kinangan kina t</mark> egan baga | ng ng Alan kan ng sang ang lang ng ng Alan ng Ing ng n |
| -70.0 | Allower of the | | | | Span 0 Hz |
| Res BW 1.0 MHz | #VI | BW 3.0 MHz | | Sweep 10.00 r | ns (10001 pts) |
| MKRi MODE TRC SCL × 1 Δ2 1 t (Δ) 2 F 1 t 3 - - - 4 - - - | 1.633 ms (Δ) 1 | FUNCTION I.09 dB 3 dBm | FUNCTION WIDTH | FUNCTION VAL | UE |
| 5 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | | | | | |
| 10 11 K | | | STATUS | | > |

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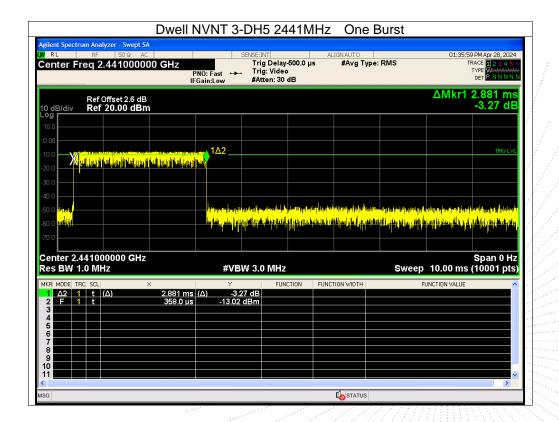
| | | Dwell I | NVNT 2- | -DH5 24 | 141MHz | One | Burst | | |
|---|--|--------------------|--|--|---|---|--|----------|---|
| (RL | um Analyzer - Swept S RF 50Ω A req 2.4410000 | c I00 GHz | PNO: Fast 🔸 | SENSE:INT Trig Delay Trig: Video #Atten: 30 | -500.0 μs o | LIGNAUTO #Avg Typ | e: RMS | | 1 PM Apr 28, 2024 RACE 1 2 3 4 5 TYPE WWWWWW DET P N N N N |
| I0 dB/div | Ref Offset 2.6 dE Ref 20.00 dBi | | | | | | | ΔMkr1 | 2.842 ms -2.77 dE |
| 10.0 0.00 10.0 | | | Δ2 | | | | | | TRIG LVL |
| -20.0 | | | | | | | | | |
| -30.0 | | | | | | | | | |
| -40.0 -50.0 -60.0 | | | dal et des des des des se Na stande <mark>n estadores des</mark> Na standen estadores des se | VİLL OLUŞUNUNUNUNUNUNUNUNUNUNUNUNUNUNUNUNUNUNU | y daga di Arrika ta da Masega det at estat | | an ^{ll v} atio ^{til} by the state of the state | | a da a d |
| -50.0 -60.0 -70.0 | 441000000 GHz .0 MHz | | | W 3.0 MHz | | alden di kan biyan di <mark>Manipan di kan biyan di kana di Manipan di kana /mark> | | | Span 0 Hi |
| 40.0 50.0 60.0 70.0 Center 2.4 Res BW 1. MKR MODE TRI 1 A2 1 2 F 1 3 U | .0 MHz | | #VB (Δ) -2.7 | W 3.0 MHz | | | Sweep | | Span 0 H: (10001 pts |
| 40.0 50.0 50.0 70.0 Center 2.4 Res BW 1. MKR MODE TRI 1 Δ2 1 2 F 1 | .0 MHz | 2 × 2.842 ms | #VB (Δ) -2.7 | W 3.0 MHz | | | Sweep | 10.00 ms | Span 0 H; (10001 pts |
| 40.0 50.0 50.0 Center 2.4 Ces BW 1. MKR MODE TR 1 Δ2 1 2 F 1 3 4 5 6 6 7 7 | .0 MHz | 2 × 2.842 ms | #VB (Δ) -2.7 | W 3.0 MHz | | | Sweep | 10.00 ms | Span 0 Hz (10001 pts |

| | Dwell N | NVNT 3-DH | 11 2441MI | Hz One | Burst | |
|--|--|--|--|---|---|---|
| gilent Spectrum Analyzer - Swept | | | | | | |
| RL RF 50 Ω A | DOO GHz | NO:East ++ Tri | ɪмт ig Delay-500.0 μs ig: Video tten: 30 dB | ALIGNAUTO #Avg Typ | e: RMS | 01:19:04 PM Apr 28, 3 TRACE 1 2 3 TYPE V V V DET P N N |
| Ref Offset 2.6 dl | | | | | | ΔMkr1 381.0 1.65 |
| 0.0 | | | | | | |
| | u la | | | | | TRK |
| 0.0 | | land. | | | | |
| 0.0 | | | | | | |
| | a far far an far an far a A far | a <mark>llandar and an </mark> | h ^{ild} harachter professer ab d | leda de com esta homente Martina presidentes das | <mark>de la desta de presidente de service de la presidente de la presidente de la presidente de la presidente de la p Internación de la presidente /mark> | anisteheteidensi parantisteratustansettisi parantysikayangan pinyantispana (japana |
| 0.0 40-00 (16)00 0.0 10 10 10 10 10 10 10 10 10 10 10 10 10 | | #VBW 3. | a fin i fi sa kina sa k Na kina sa kina | 10420/00030041000000000000000000000000000000 | a <u>and a la la constant</u> a a <mark>la constant a</mark> | 10.00 ms (1000 |
| 0.0 (41.00) (2.0 (41.00) 0.0 (41.00) (41.00) 0.0 (41.00) (41.00) enter 2.441000000 GH2 es BW 1.0 MH2 КА модеј тасј sci. | z X | #VBW 3. | O MHz | | Sweep | <mark>(19) (6) eta jaro (19) (19) (19) (19) (19) (19) (19) (19)</mark> |
| 0.0 (41, 44) 0.0 (41, 44) enter 2.441000000 GH2 es BW 1.0 MHz KR MODE TRC SCL 1 Δ2 1 t (Δ) 2 F 1 t | , <mark>∦∛}},∬</mark> }, ₀ 144 Z | #VBW 3. | O MHz | intenti (kon portugali intensi da portugali intensi da portugali intensi da portugali intensi da portugali inte Intensi da portugali intensi | Sweep | <mark>المعلم المعلم br/>Span 0 10.00 ms (10001</mark> |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | × 381.0 µs | <mark>И (Цри), ради</mark> #VBW 3. (Δ) ^У | O MHz | intenti (kon portugali intensi da portugali intensi da portugali intensi da portugali intensi da portugali inte Intensi da portugali intensi | Sweep | <mark>المعلم المعلم br/>Span 0 10.00 ms (10001</mark> |
| 50.0 Δ(μμ) Δ(μμ) <td< td=""><td>× 381.0 µs</td><td><mark>И (Цри), ради</mark> #VBW 3. (Δ) ^У</td><td>O MHz</td><td>intenti (kon portugali intensi da portugali intensi da portugali intensi da portugali intensi da portugali inte Intensi da portugali intensi da portugali intensi da portugali intensi da portugali intensi da portugali intensi</td><td>Sweep</td><td><mark>المعلم المعلم br/>Span 0 10.00 ms (10001</mark></td></td<> | × 381.0 µs | <mark>И (Цри), ради</mark> #VBW 3. (Δ) ^У | O MHz | intenti (kon portugali intensi da portugali intensi da portugali intensi da portugali intensi da portugali inte Intensi da portugali intensi | Sweep | <mark>المعلم المعلم br/>Span 0 10.00 ms (10001</mark> |
| So 0 μ μ μ μ <td>× 381.0 µs</td> <td><mark>И (Цри), ради</mark> #VBW 3. (Δ) ^У</td> <td>O MHz</td> <td>intenti (kon portugali intensi da portugali intensi da portugali intensi da portugali intensi da portugali inte Intensi da portugali intensi da portugali intensi da portugali intensi da portugali intensi da portugali intensi</td> <td>Sweep</td> <td><mark>المعلم المعلم br/>Span 0 10.00 ms (10001</mark></td> | × 381.0 µs | <mark>И (Цри), ради</mark> #VBW 3. (Δ) ^У | O MHz | intenti (kon portugali intensi da portugali intensi da portugali intensi da portugali intensi da portugali inte Intensi da portugali intensi | Sweep | <mark>المعلم المعلم br/>Span 0 10.00 ms (10001</mark> |

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| | Dwell N | NVNT 3- | -DH3 24 | 41MHz | One | Burst | | |
|--|-------------------------------------|--|---|--|--|---|-------------------------------------|---|
| Agilent Spectrum Analyzer - Swept SA N RL RF 50 Ω AC Center Freq 2.44100000 | 0 GHz | PNO: Fast +++ Gain:Low | SENSE:INT Trig Delay Trig: Video #Atten: 30 | -500.0 µs | IGNAUTO #Avg Type | e: RMS | | 7 PM Apr 28, 2024 RACE 1 2 3 4 5 TYPE WWWWWW DET P N N N N |
| Ref Offset 2.6 dB 10 dB/div Ref 20.00 dBm | | | | | | | ∆Mkr1 | 1.630 ms 1.31 dE |
| 10.0 0.00 | 1∆2 | | | | | | | TRIG LVI |
| -20.0 X2141-0 1-4010 11-1411 | | | | | | | | |
| 40.0 -50.0 - <mark>61.0</mark> | latin kinderer Rider der som die | tere de ligent frans. <mark>, platet (1996) (1997)</mark> | al institu ^l the south of an <mark>January Instance party al y</mark> | aldu oot teluk taal Natio Vikeetia ja _n si | in holest le die d på Lipsen i kin he | <mark>den producer (new producer Recent francé (new producer (</mark> | dette et settitette Repetitionen | andra brailtea <mark>1997 - Artan Artan</mark> |
| Center 2.441000000 GHz Res BW 1.0 MHz | | #VB | W 3.0 MHz | | | 0 | 40.00 | Span 0 H |
| | | | | | | Sweep | 10.00 ms | (10001 pts |
| 1 Δ2 1 t (Δ) 2 F 1 t 3 4 <td>1.630 ms 358.0 μs</td> <td>Υ (Δ) 1.3</td> <td>FUN 31 dB</td> <td></td> <td>FION WIDTH</td> <td></td> <td>INCTION VALUE</td> <td></td> | 1.630 ms 358.0 μs | Υ (Δ) 1.3 | FUN 31 dB | | FION WIDTH | | INCTION VALUE | |
| 1 Δ2 1 t (Δ) 2 F 1 t 3 | 1.630 ms | Υ (Δ) 1.3 | FUN 31 dB | | rion width | | | |



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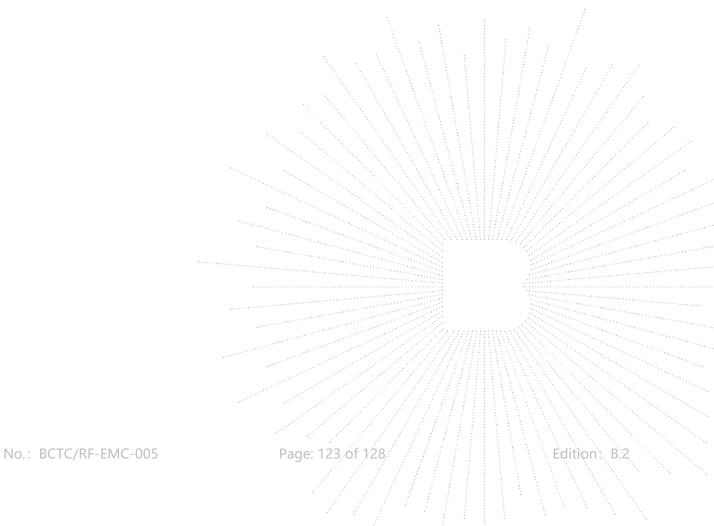
15. Antenna Requirement

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 Internal antenna, fulfill the requirement of this section.





16. EUT Photographs

EUT Photo 1



EUT Photo 2





EUT Photo 3



EUT Photo 4



NOTE: Appendix-Photographs Of EUT Constructional Details.

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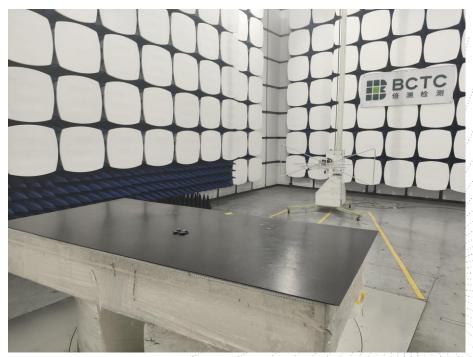


17. EUT Test Setup Photographs

Conducted Measurement Photo



Radiated Measurement Photos



No.: BCTC/RF-EMC-005

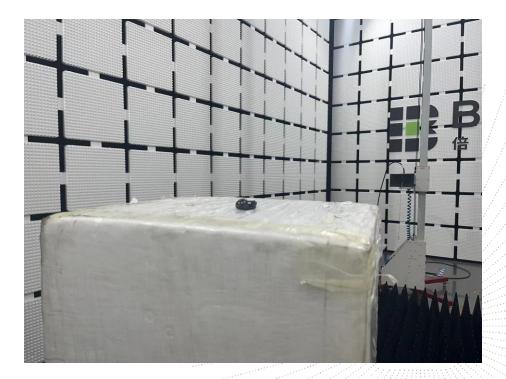
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Left



Right



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

8. 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.

Address:

1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

TEL: 400-788-9558

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