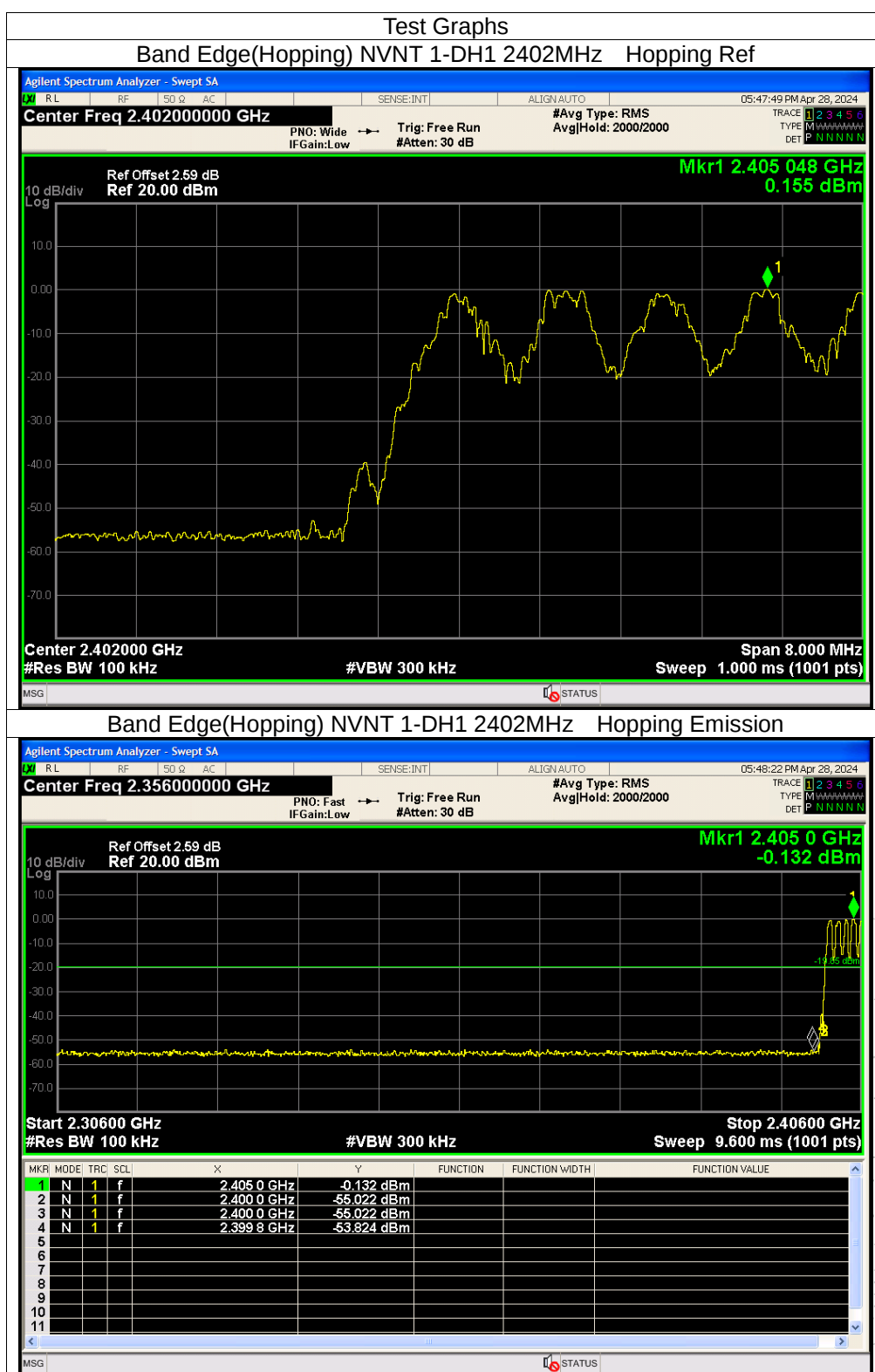
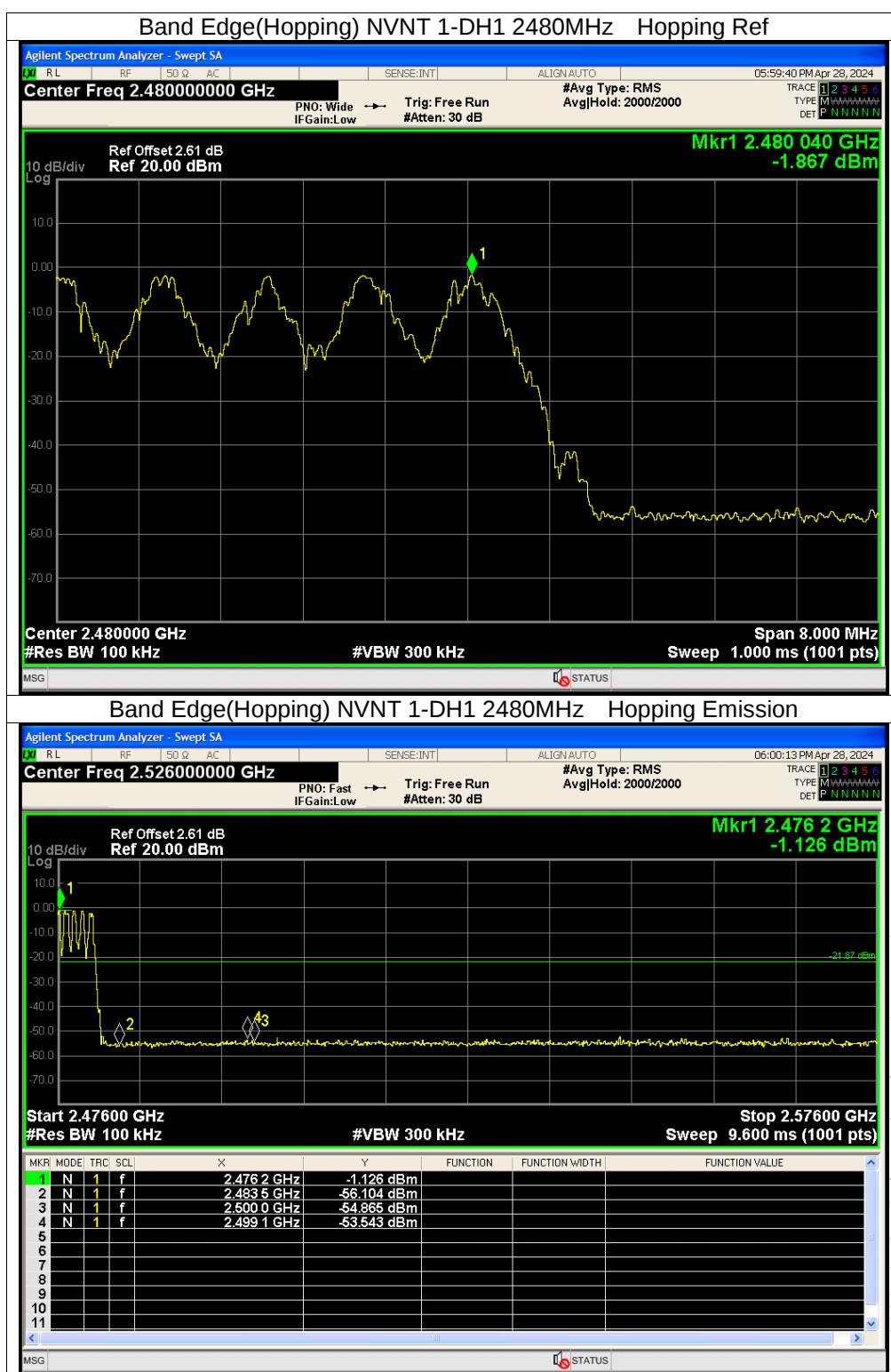
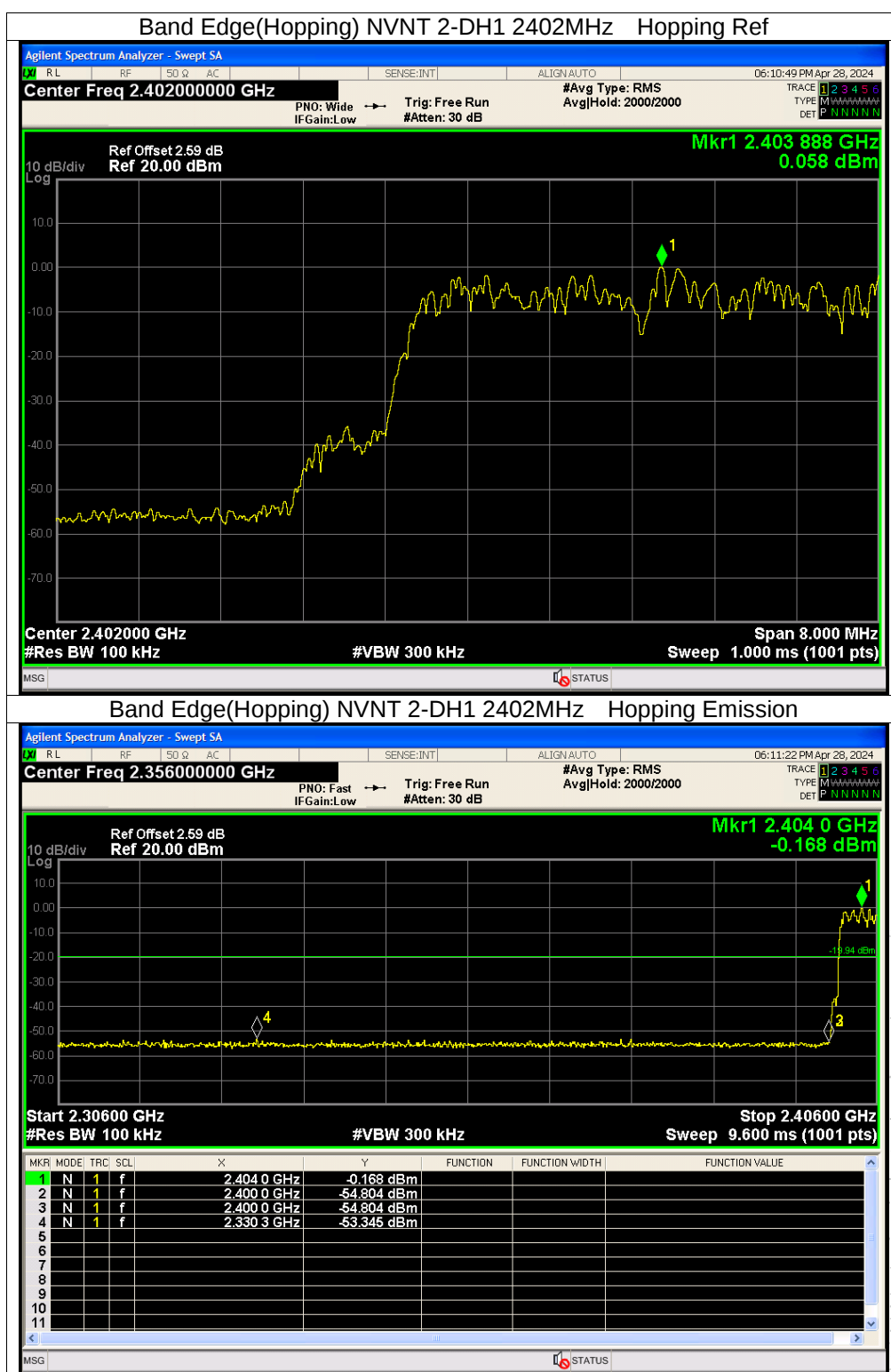
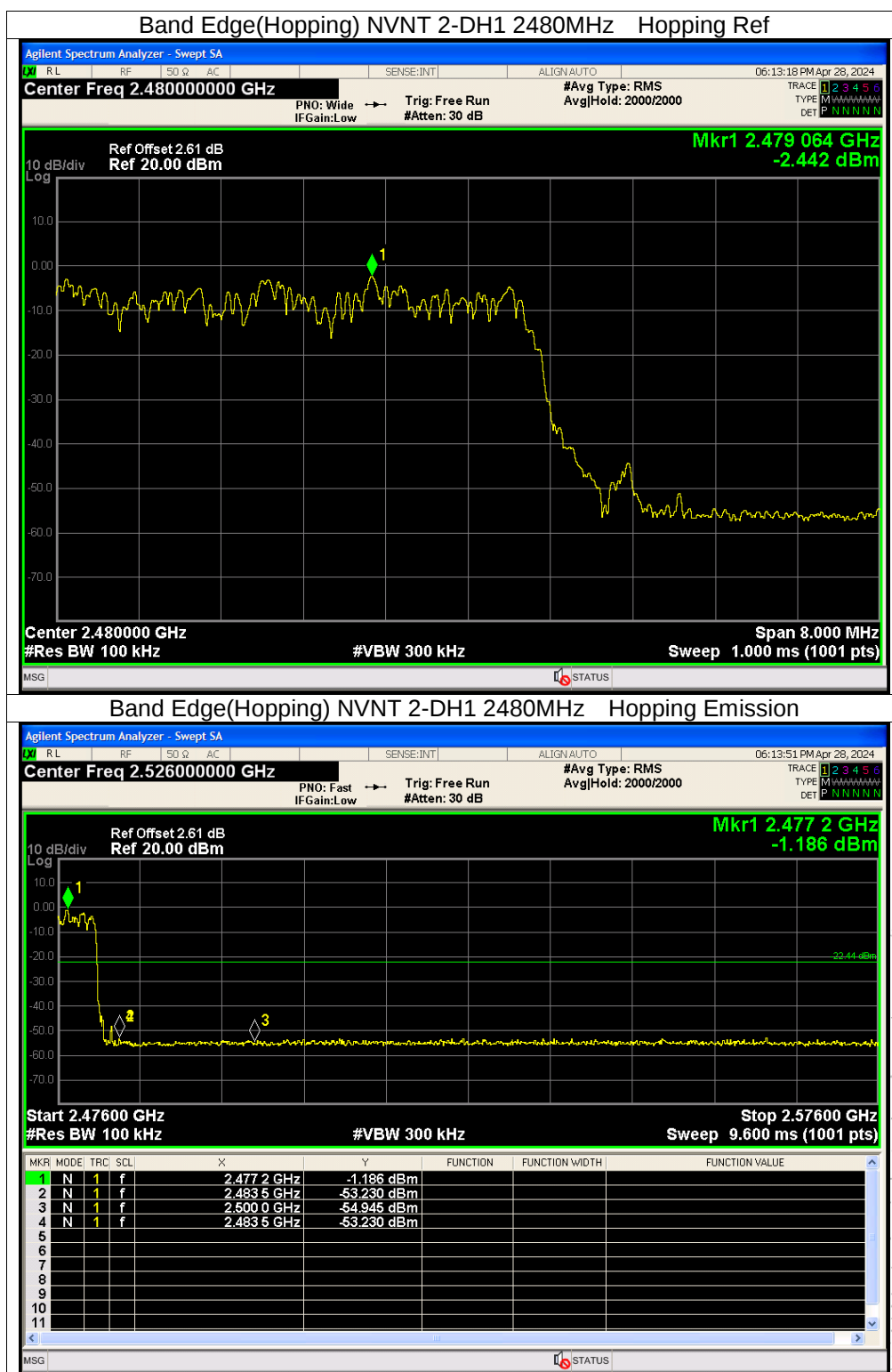
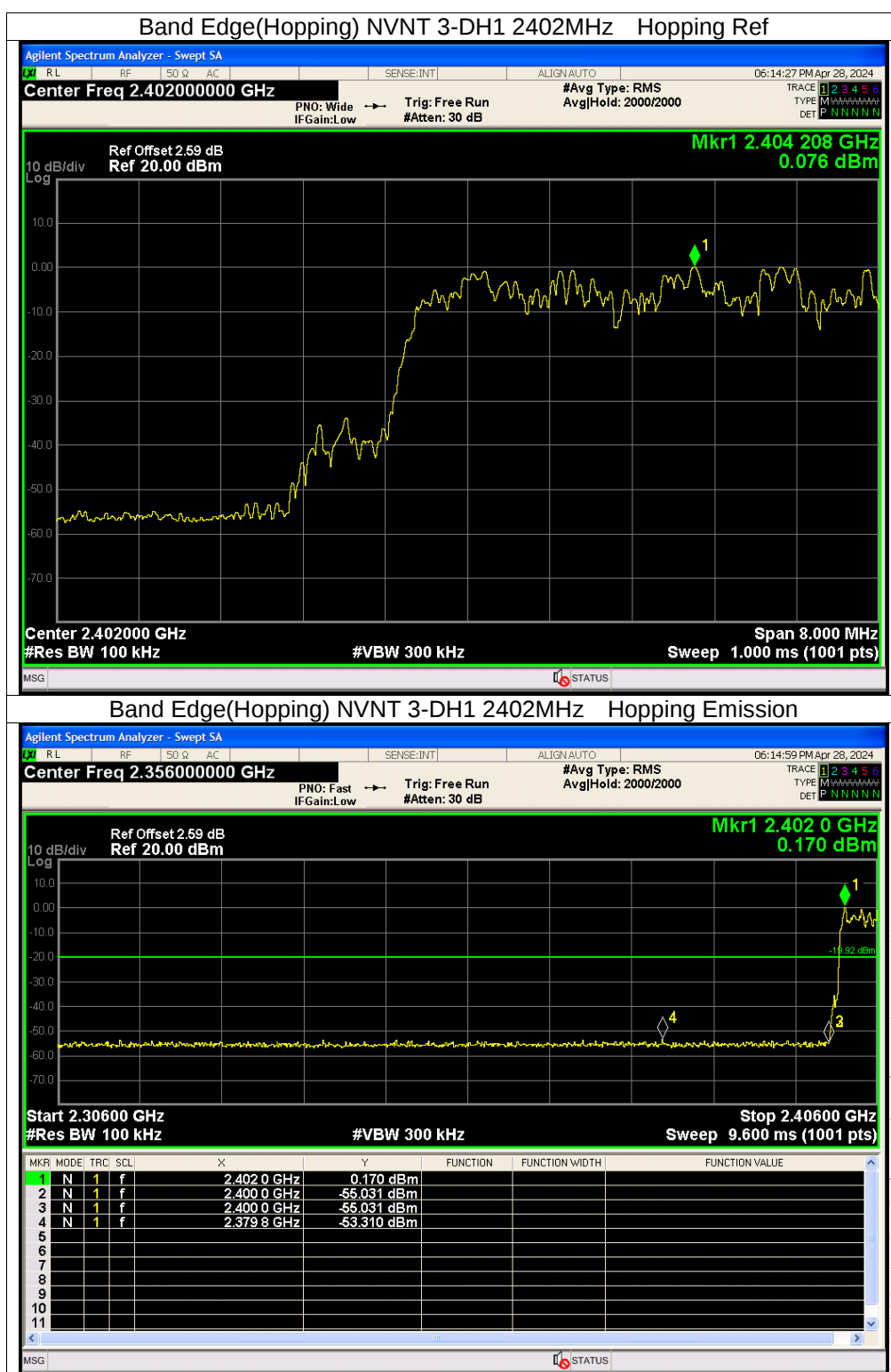










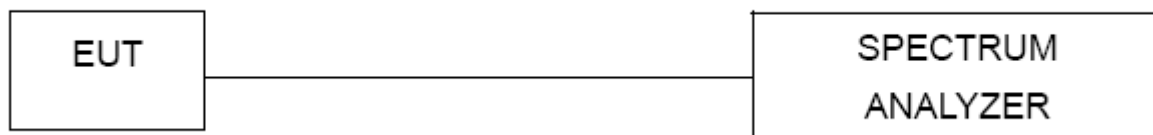




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10. 20 dB Bandwidth

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) $\geq 3 \times$ 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

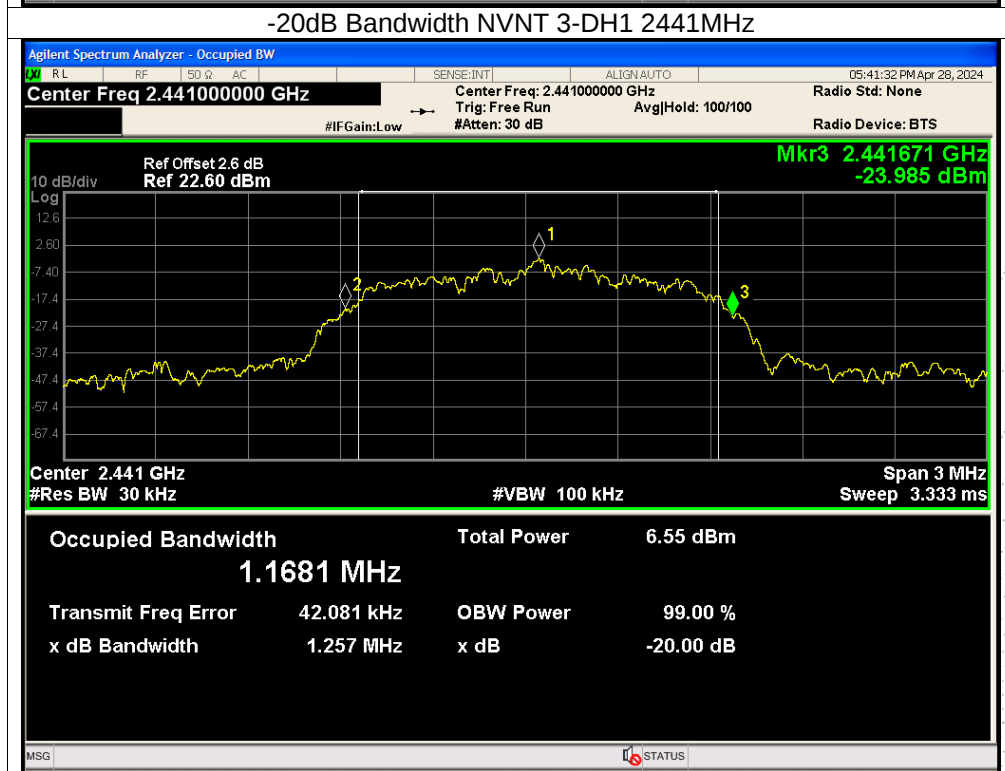
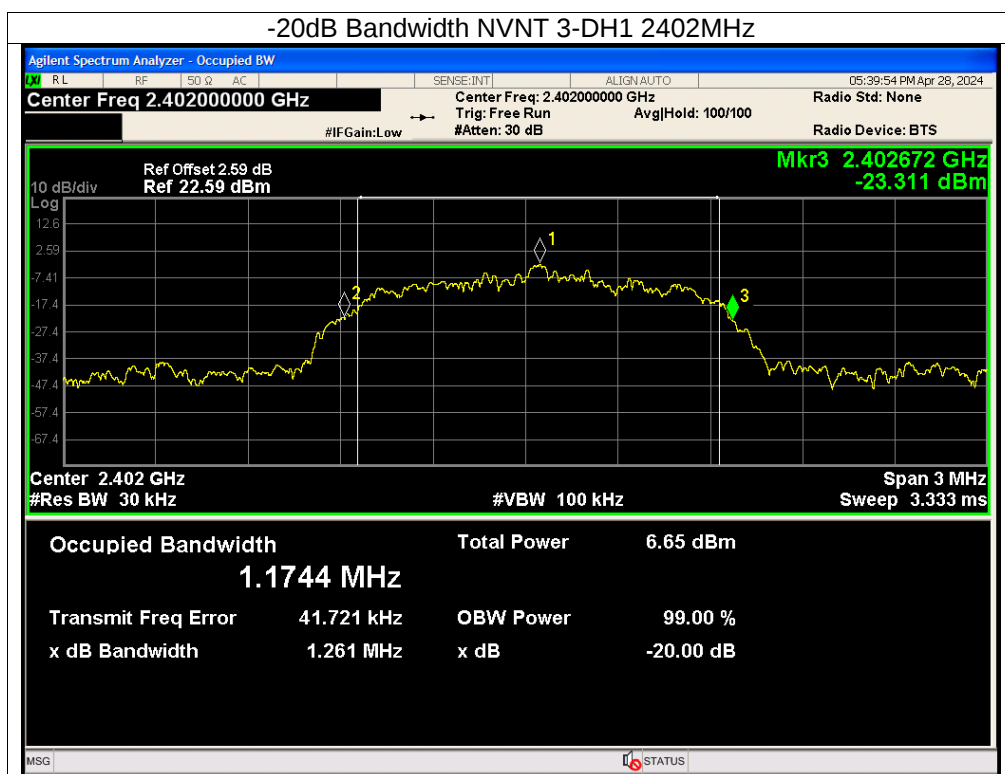
Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	0.935	Pass
NVNT	1-DH1	2441	0.938	Pass
NVNT	1-DH1	2480	0.916	Pass
NVNT	2-DH1	2402	1.315	Pass
NVNT	2-DH1	2441	1.304	Pass
NVNT	2-DH1	2480	1.317	Pass
NVNT	3-DH1	2402	1.261	Pass
NVNT	3-DH1	2441	1.257	Pass
NVNT	3-DH1	2480	1.249	Pass

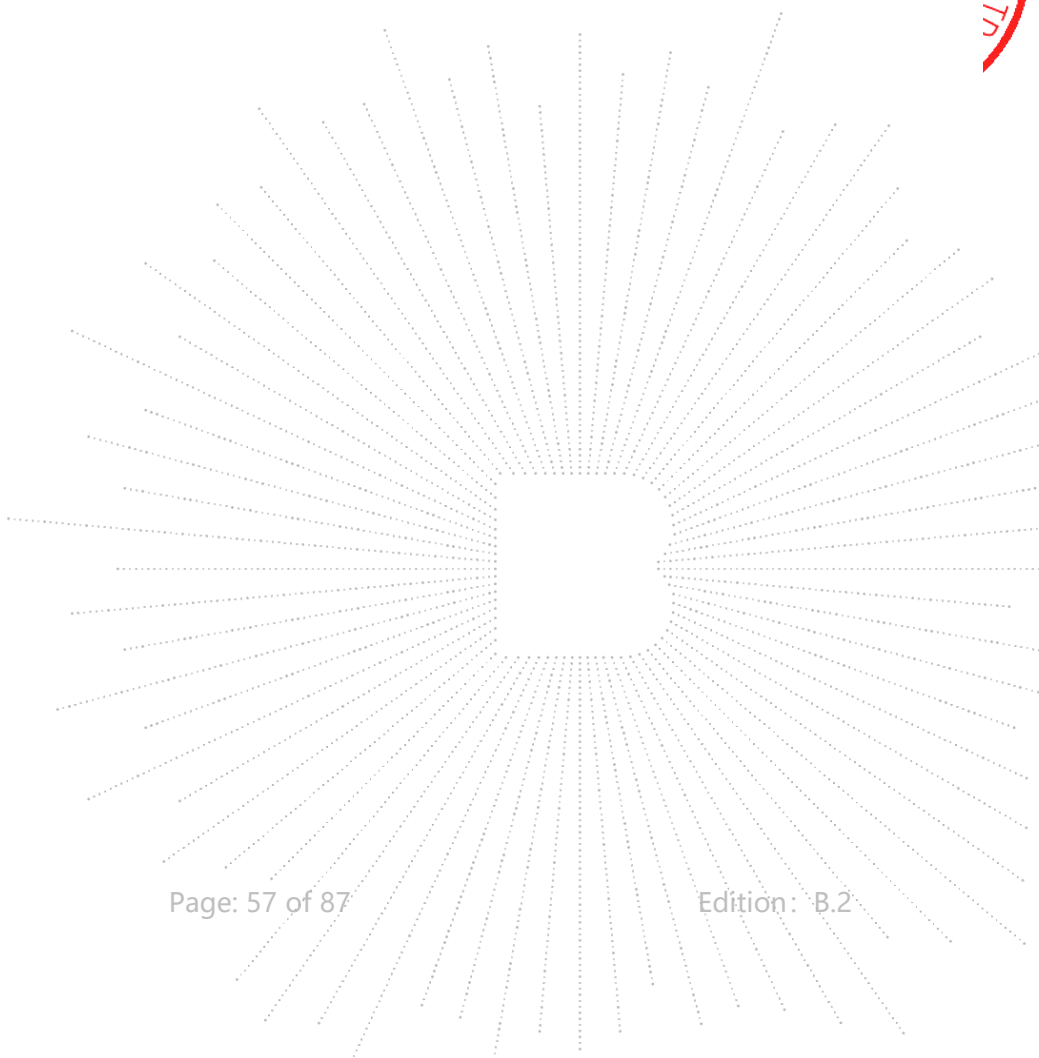
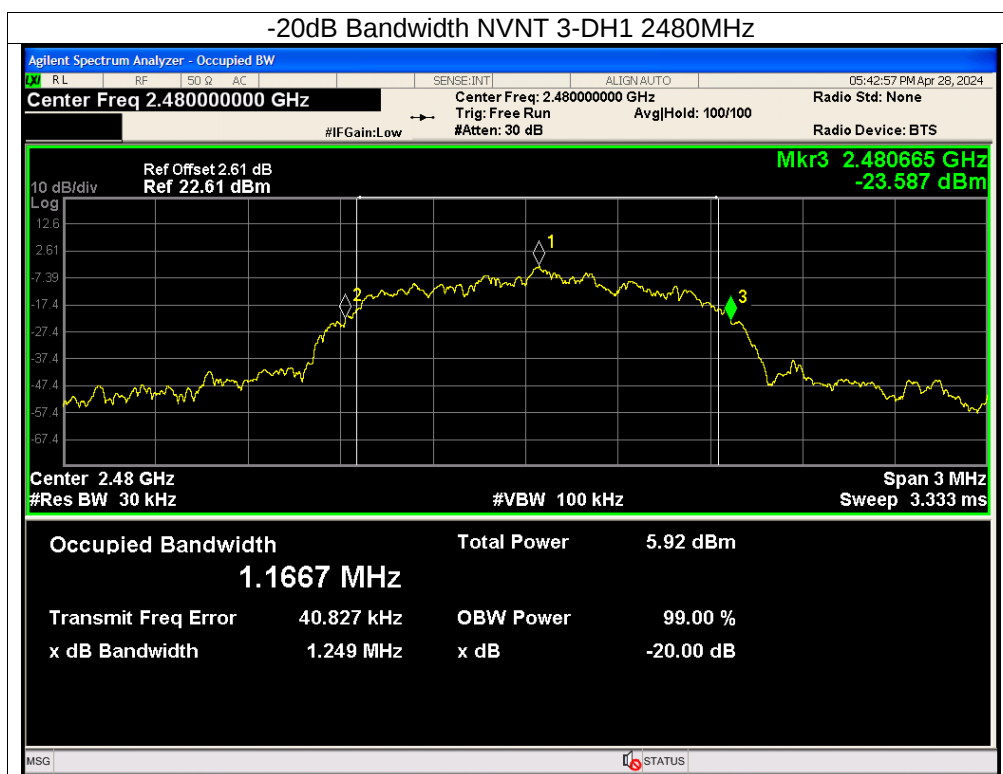




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11. Maximum Peak Output Power

11.1 Block Diagram Of Test Setup



11.2 Limit

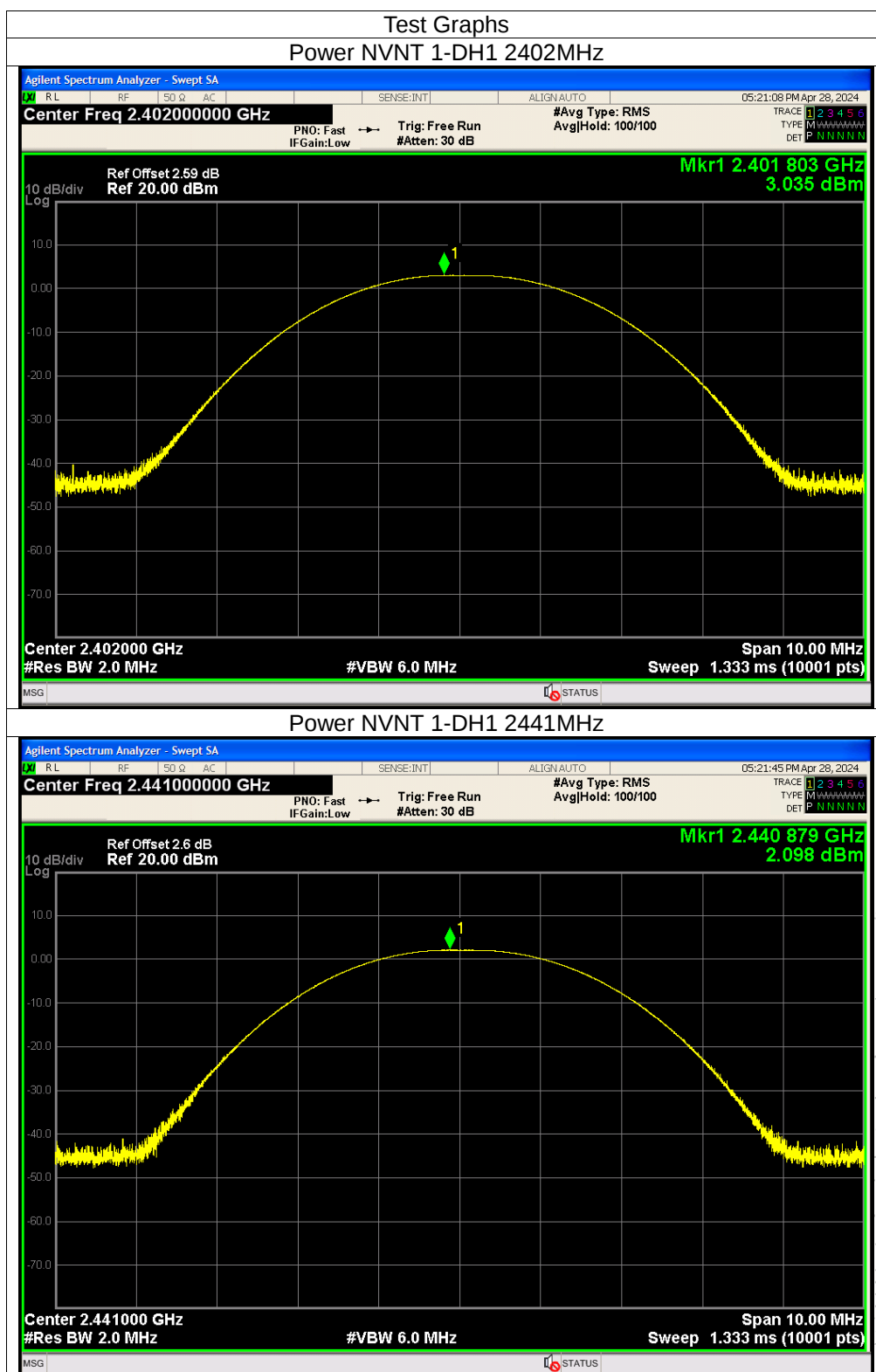
FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(1)	Peak Output Power	0.125 watt or 21dBm	2400-2483.5	PASS

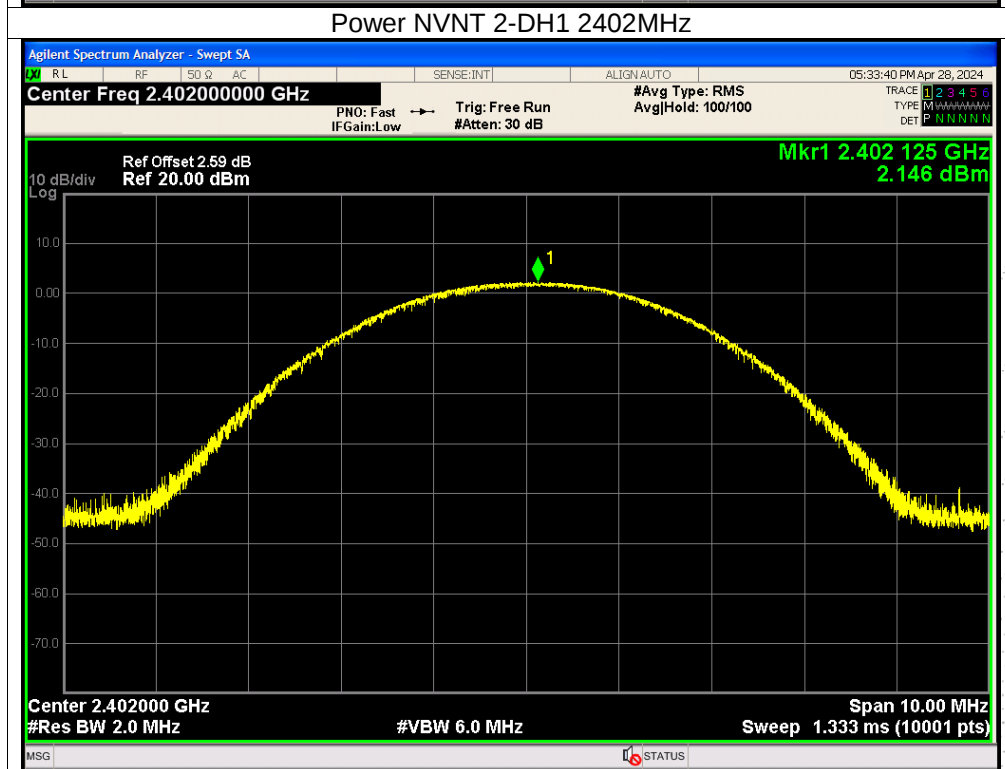
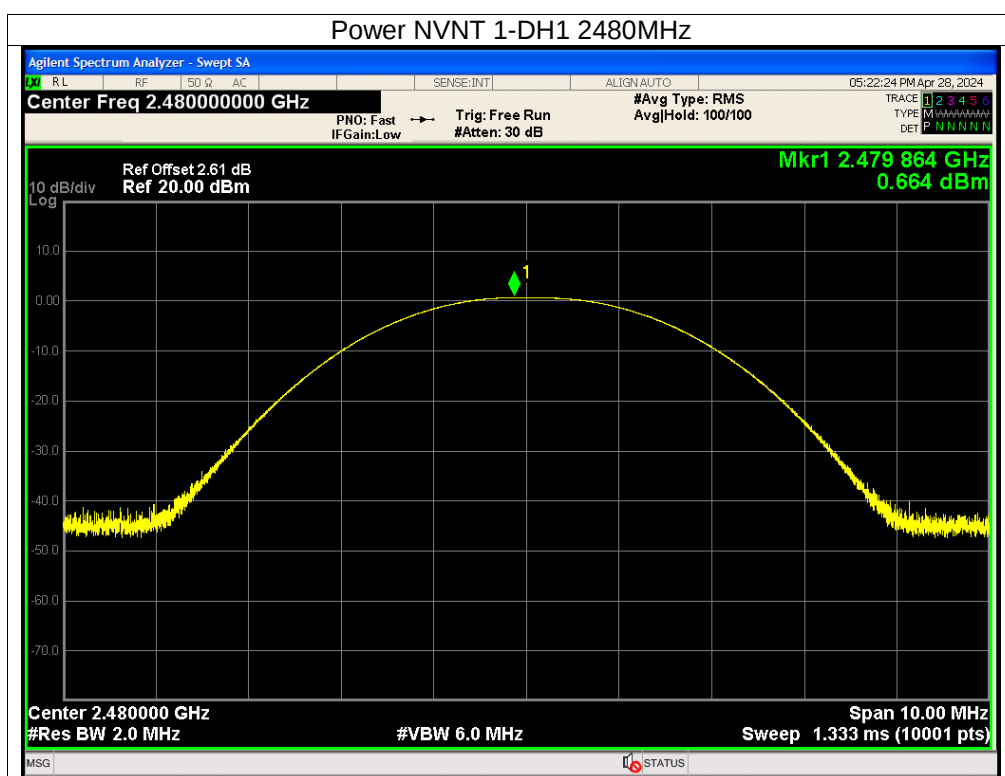
11.3 Test procedure

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.

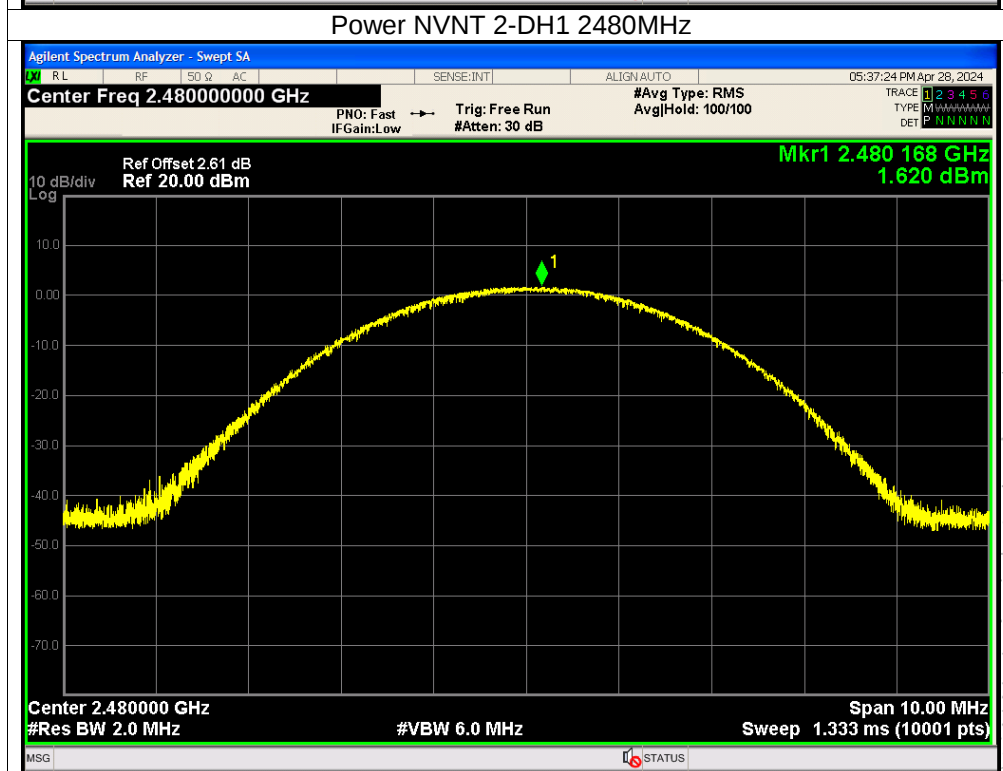
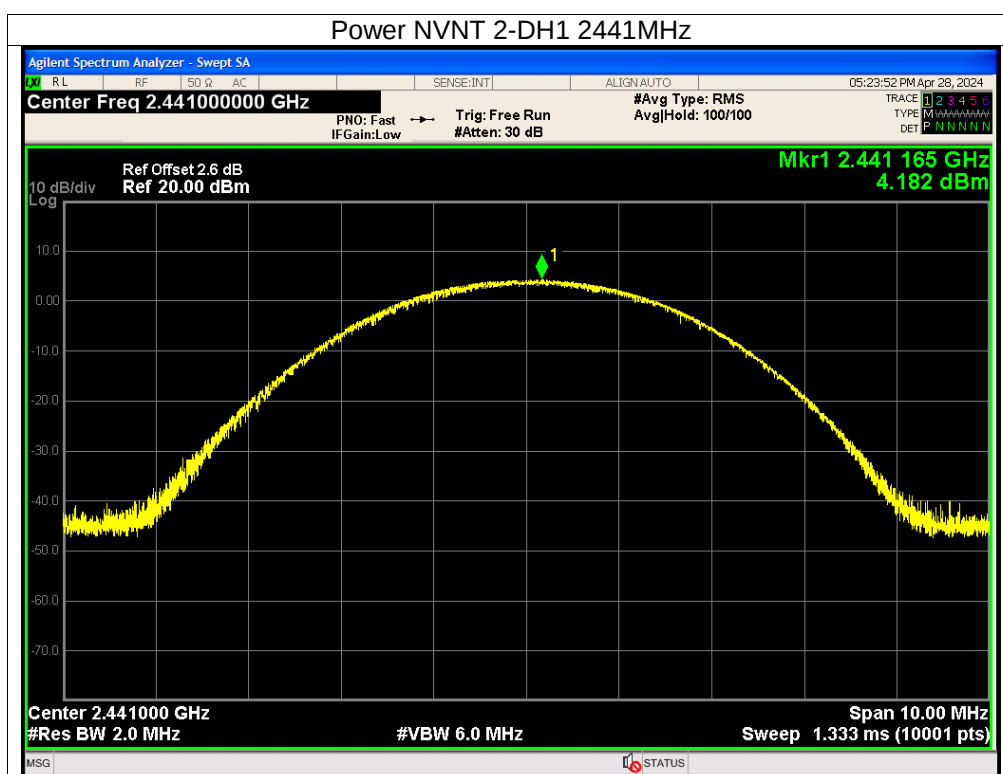
11.4 Test Result

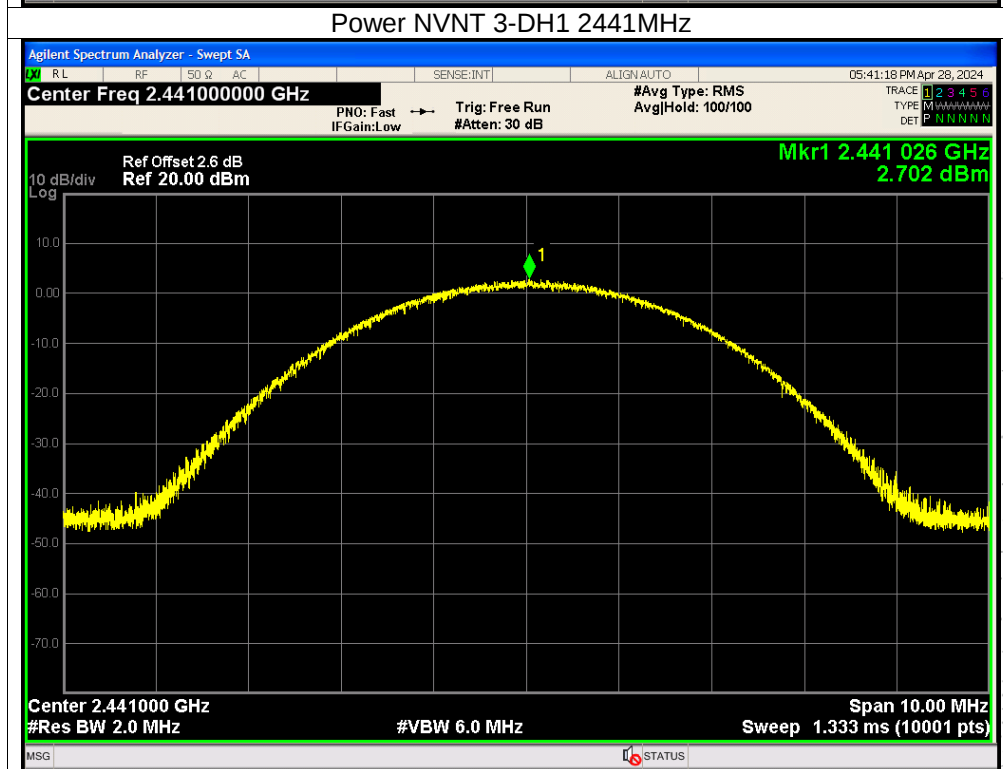
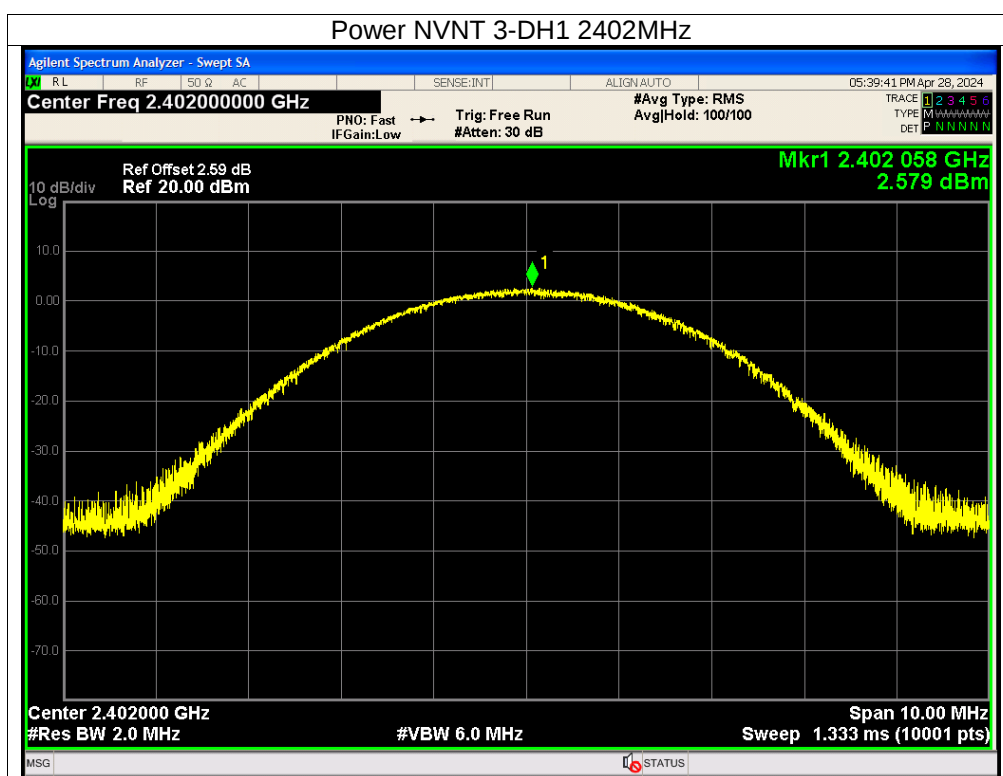
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	3.04	21	Pass
NVNT	1-DH1	2441	2.10	21	Pass
NVNT	1-DH1	2480	0.66	21	Pass
NVNT	2-DH1	2402	2.15	21	Pass
NVNT	2-DH1	2441	4.18	21	Pass
NVNT	2-DH1	2480	1.62	21	Pass
NVNT	3-DH1	2402	2.58	21	Pass
NVNT	3-DH1	2441	2.70	21	Pass
NVNT	3-DH1	2480	2.20	21	Pass

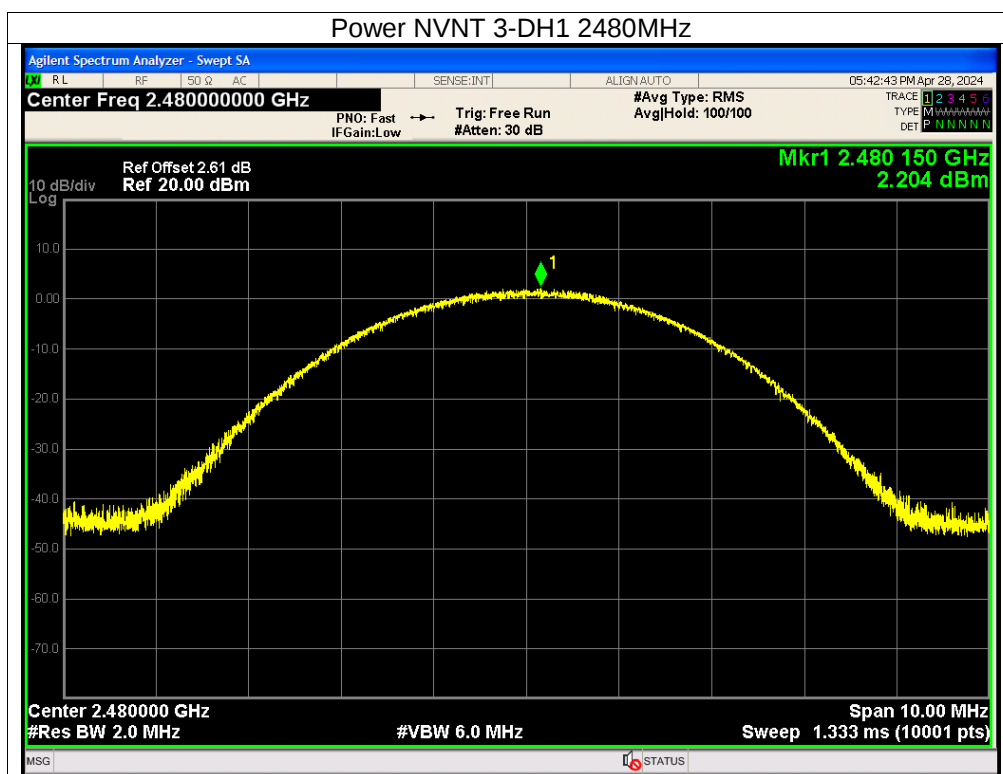




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12. Hopping Channel Separation

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.

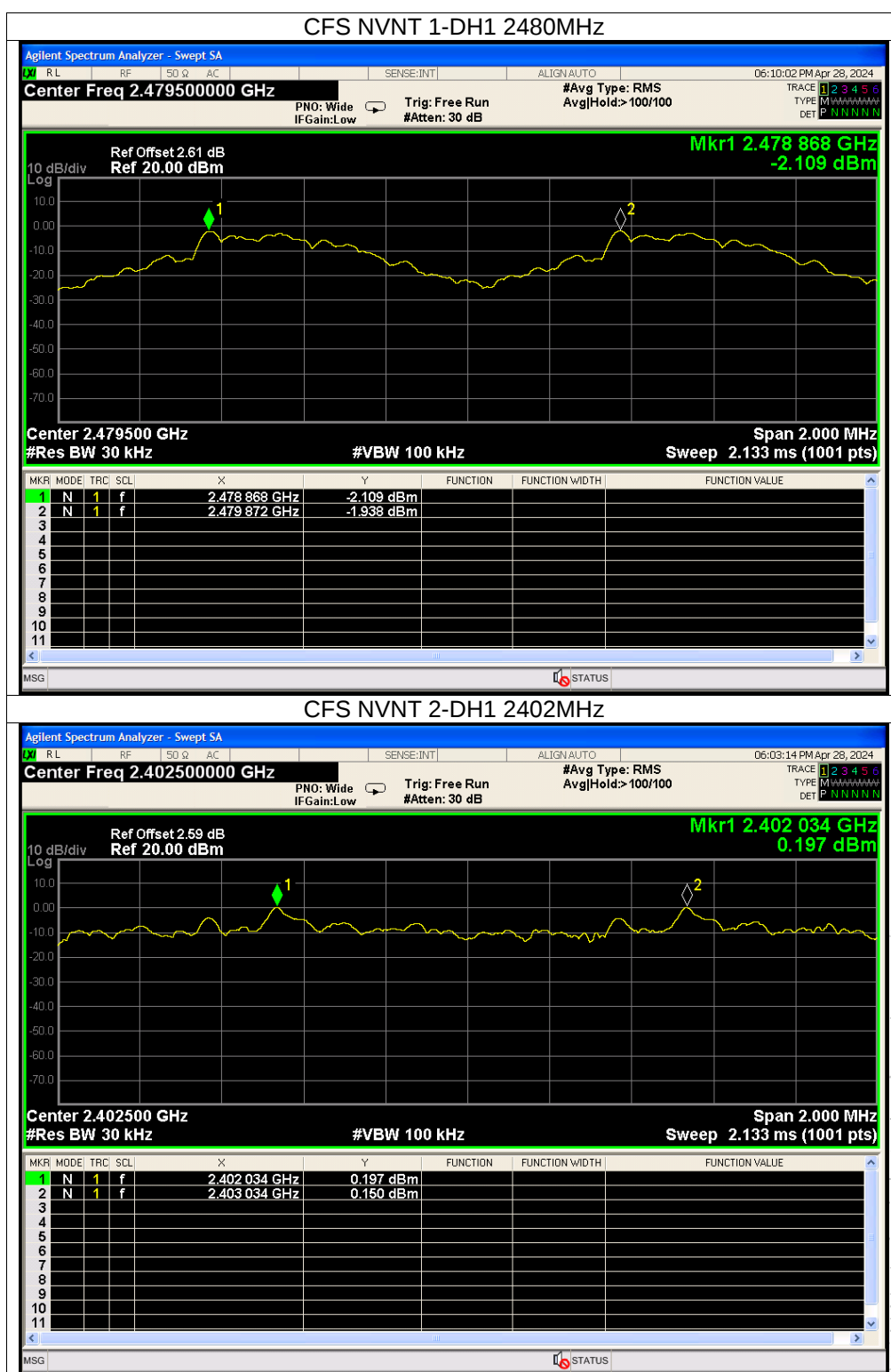
12.3 Test procedure

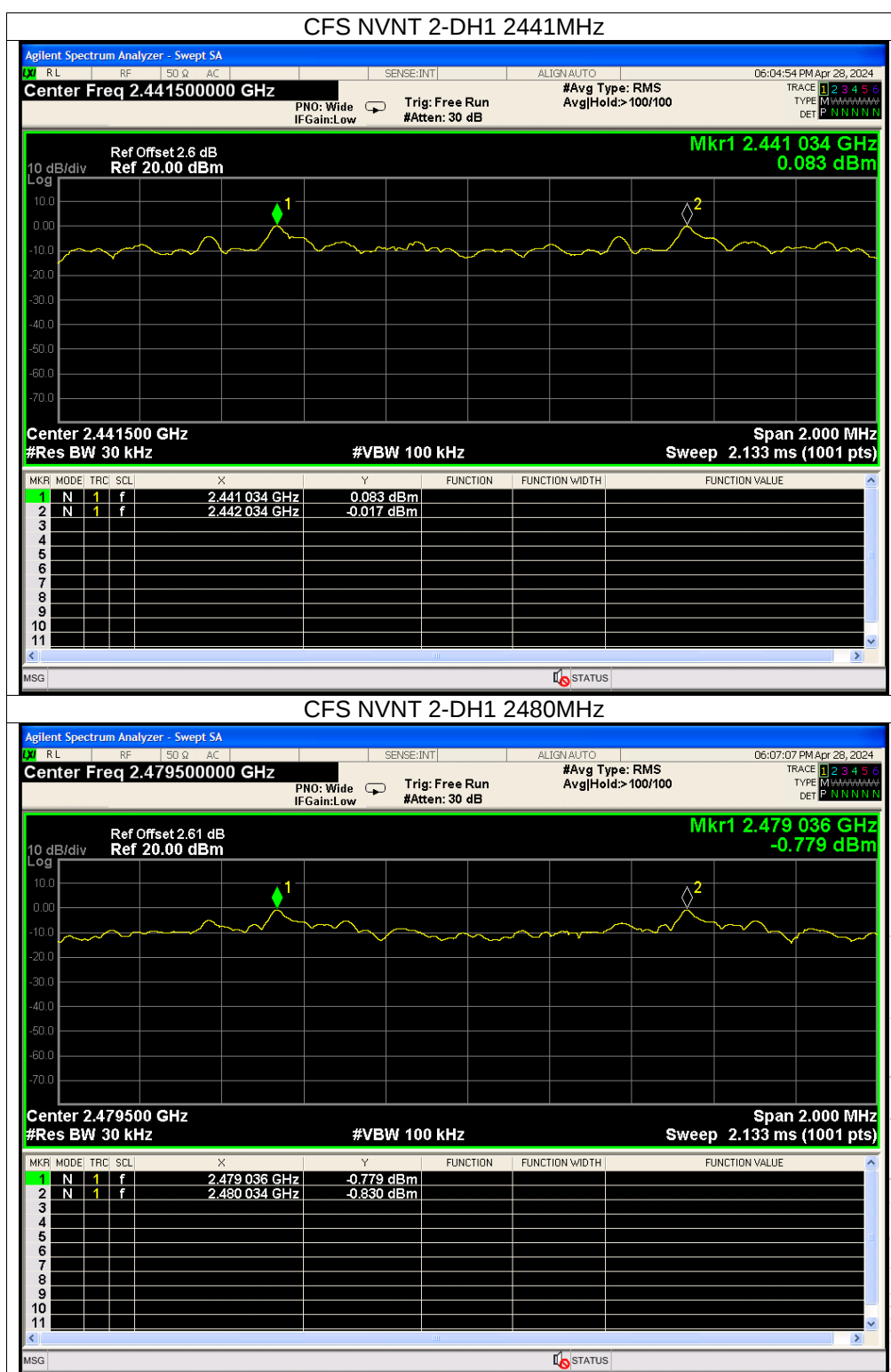
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 30kHz. VBW = 100kHz , Span = 2.0MHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.
3. Allow the trace to stabilize. Use the marker-delta function to 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.

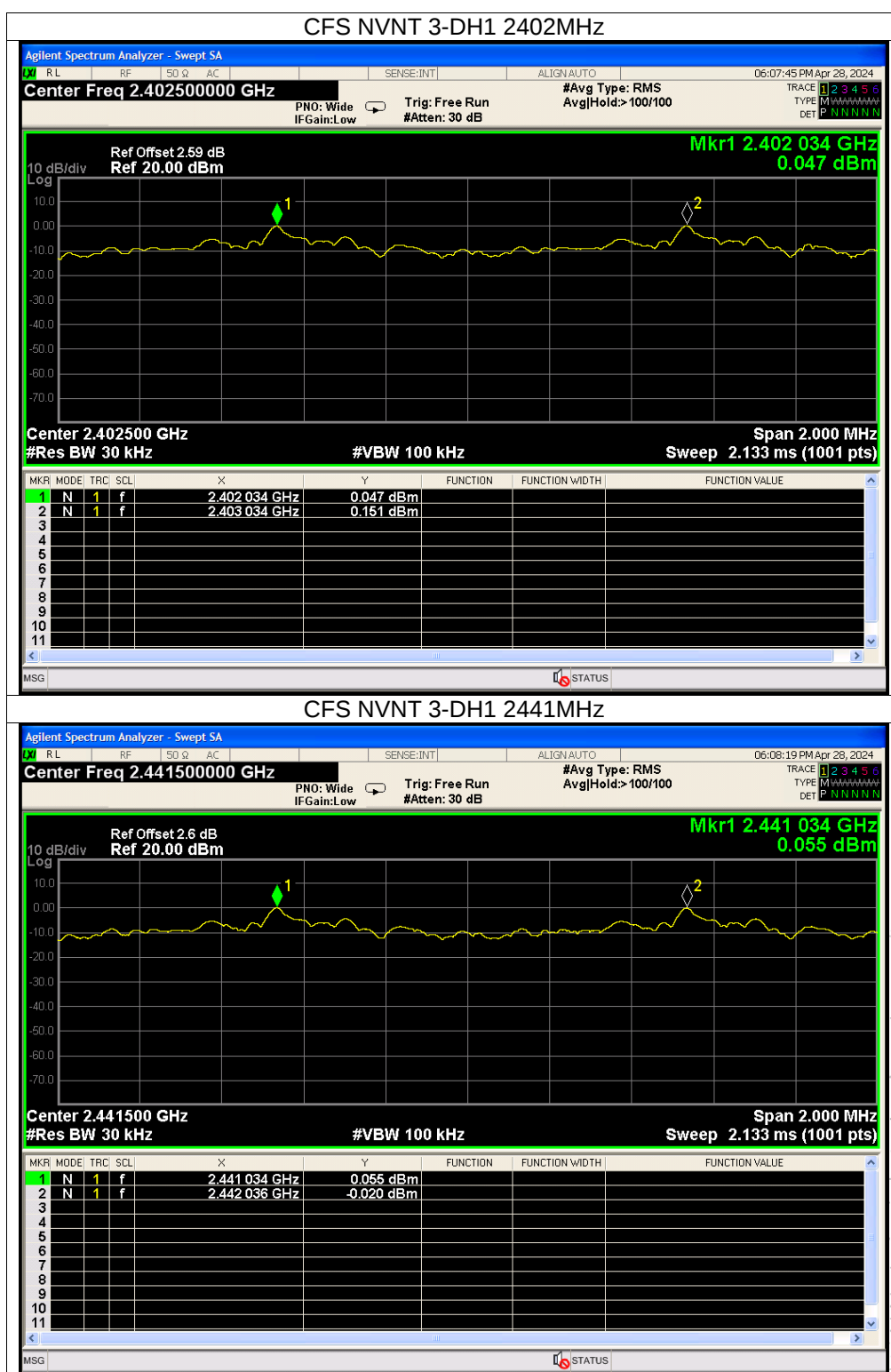
12.4 Test Result

odulation	Test Channel	Separation (MHz)	Limit(MHz)	Result
GFSK	Low	1.000	0.623	PASS
GFSK	Middle	1.004	0.625	PASS
GFSK	High	1.004	0.611	PASS
$\pi/4$ DQPSK	Low	1.000	0.877	PASS
$\pi/4$ DQPSK	Middle	1.000	0.869	PASS
$\pi/4$ DQPSK	High	0.998	0.878	PASS
8DPSK	Low	1.000	0.841	PASS
8DPSK	Middle	1.002	0.838	PASS
8DPSK	High	1.000	0.833	PASS

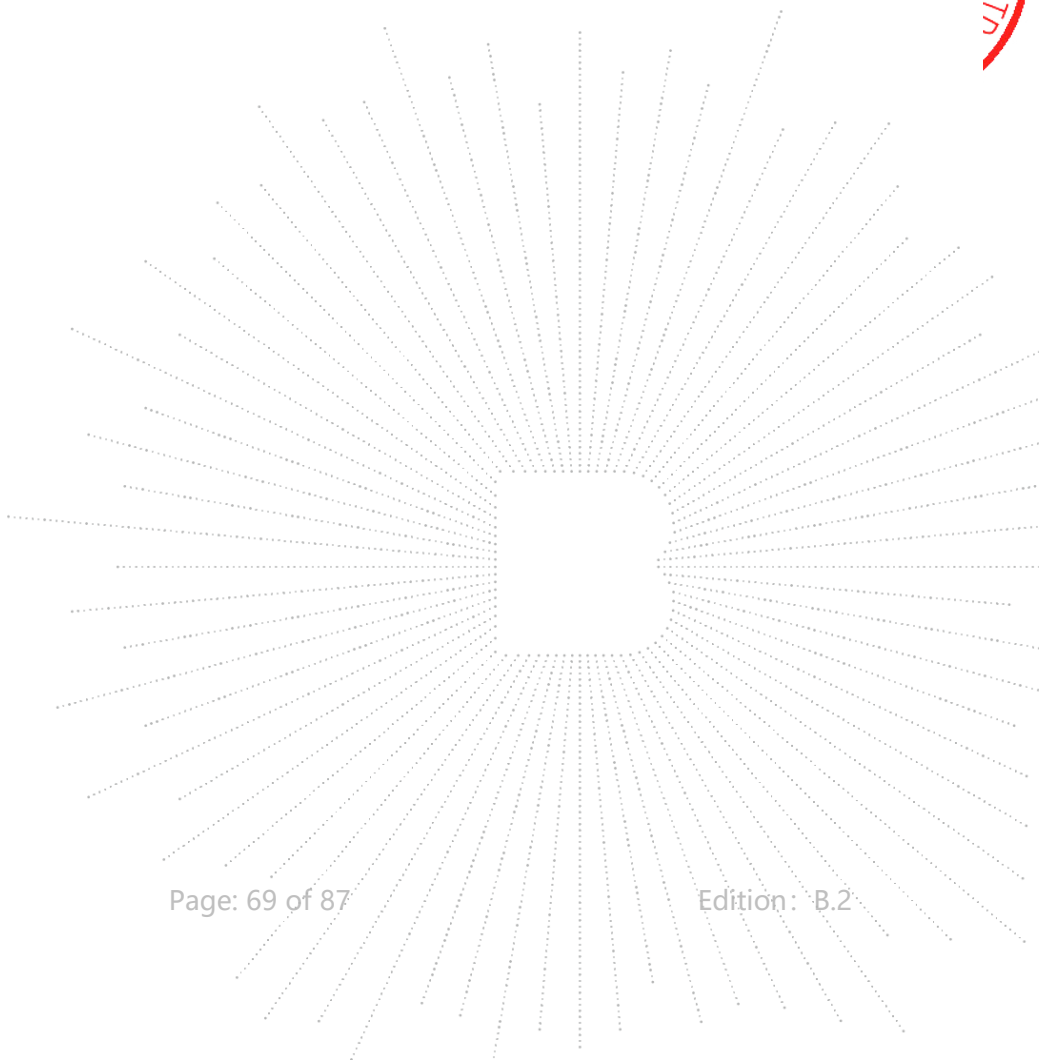
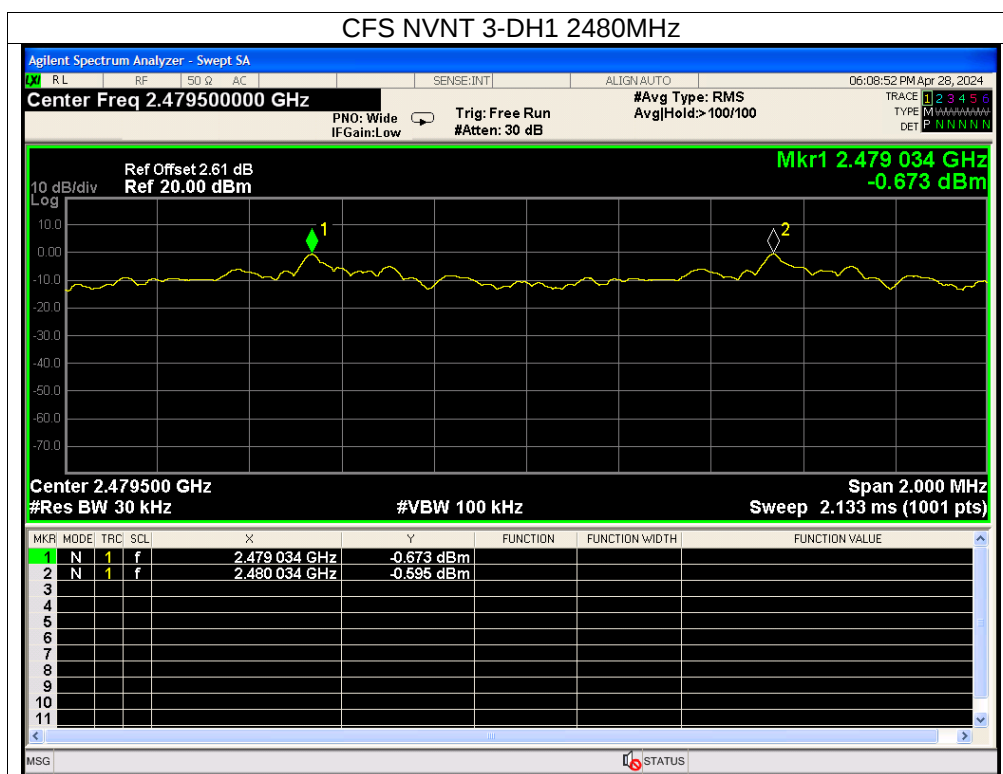






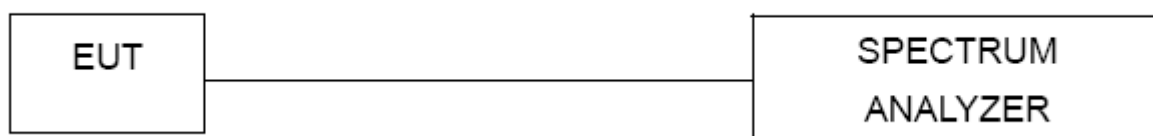


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13. Number Of Hopping Frequency

13.1 Block Diagram Of Test Setup



13.2 Limit

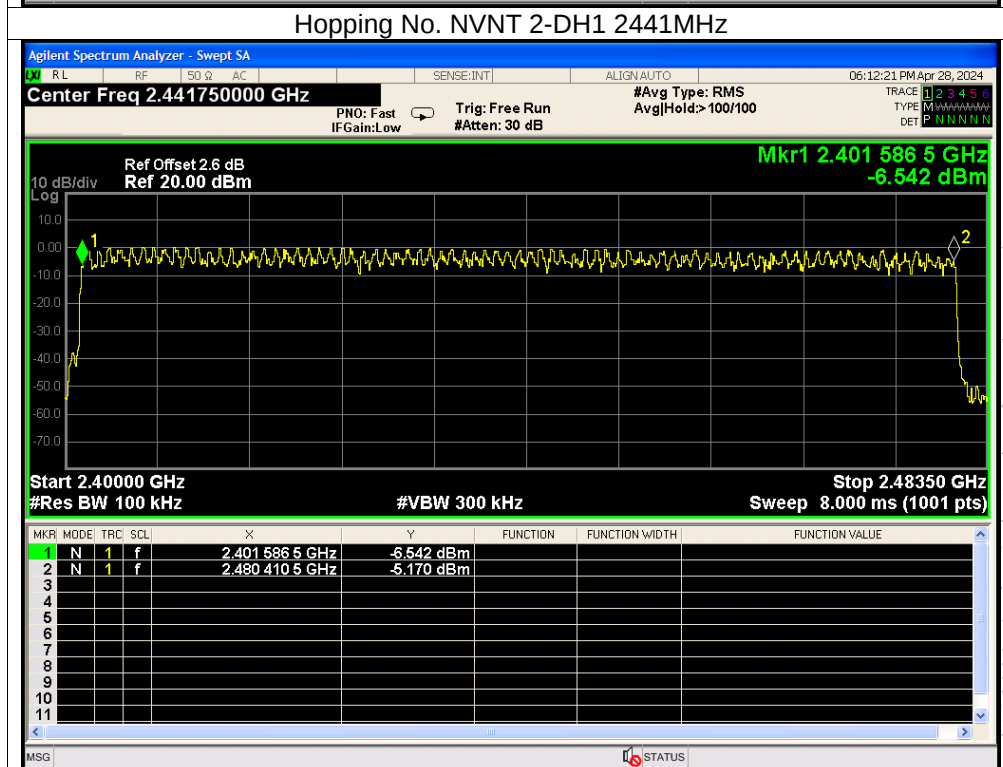
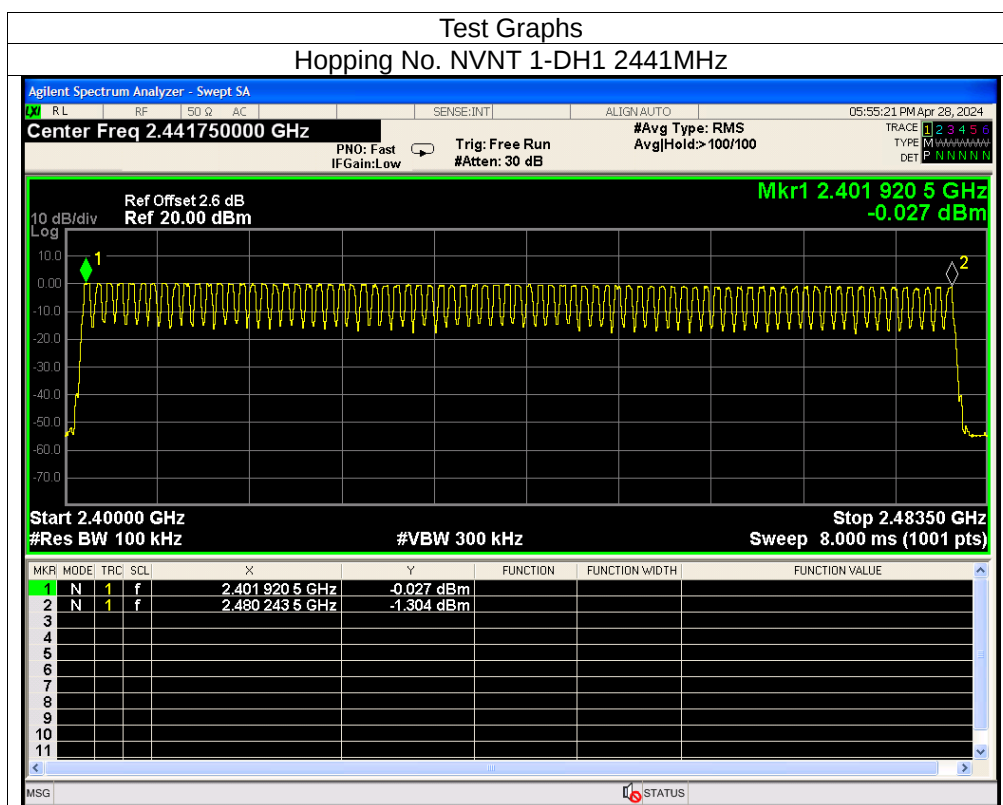
Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

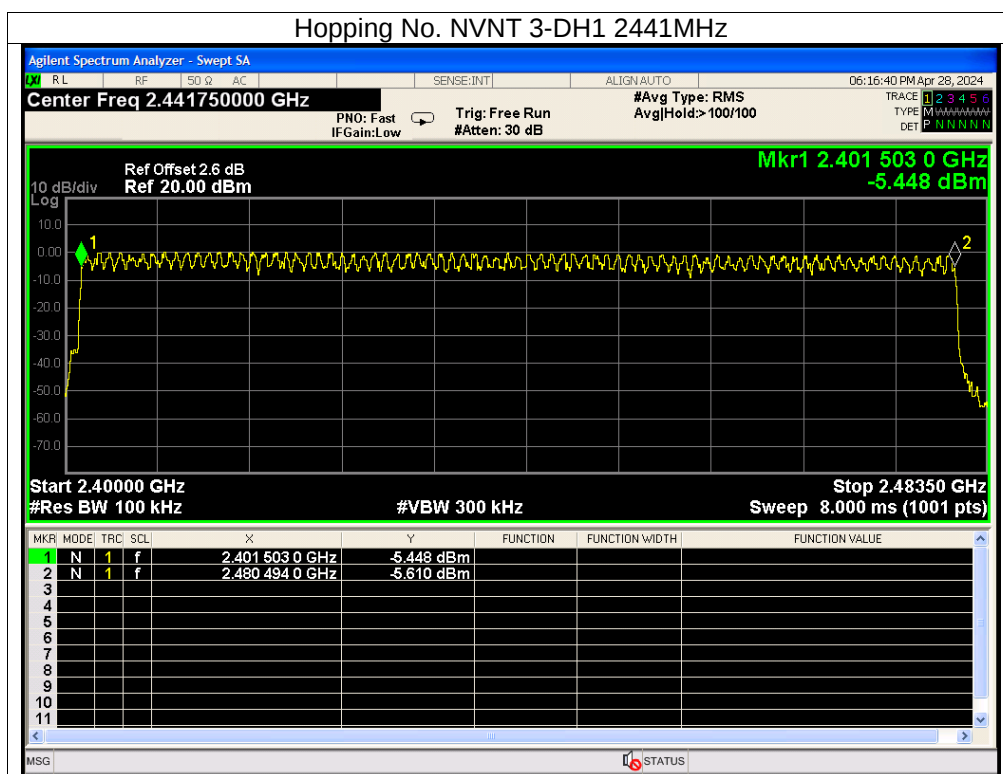
13.3 Test procedure

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

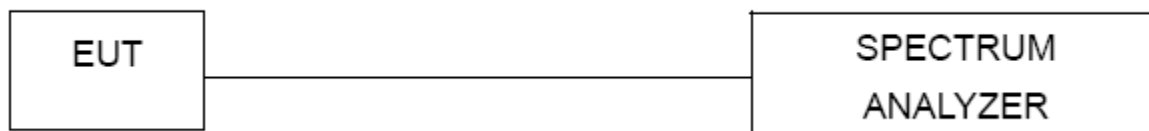




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14. Dwell Time

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.

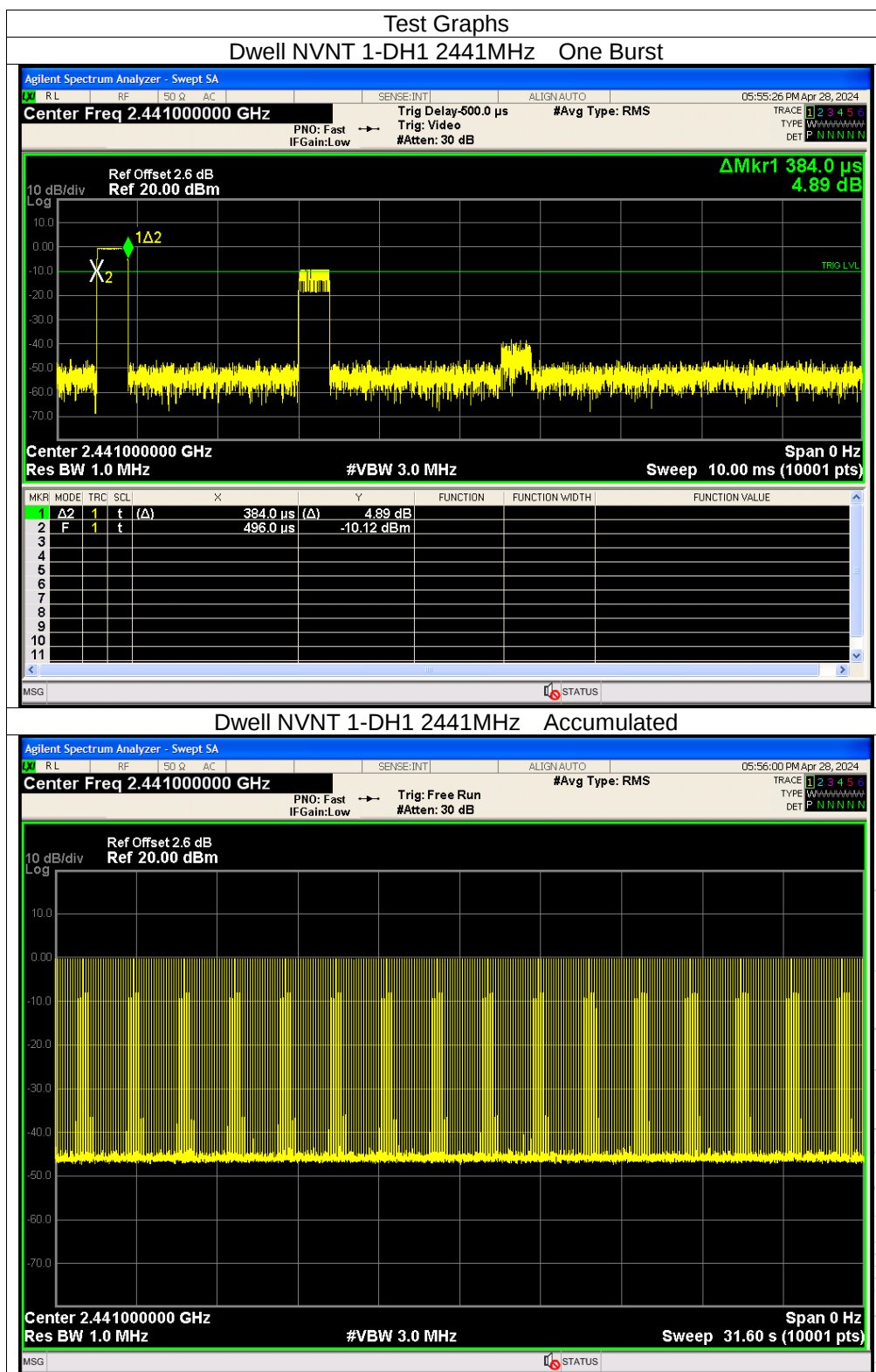
14.3 Test procedure

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).

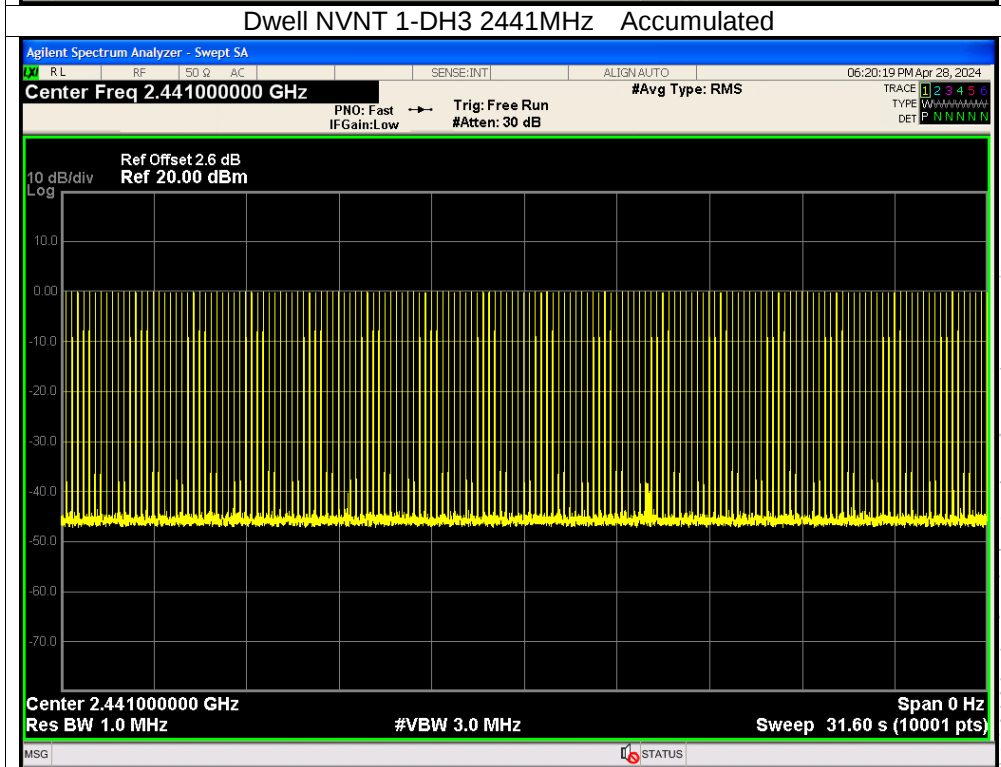
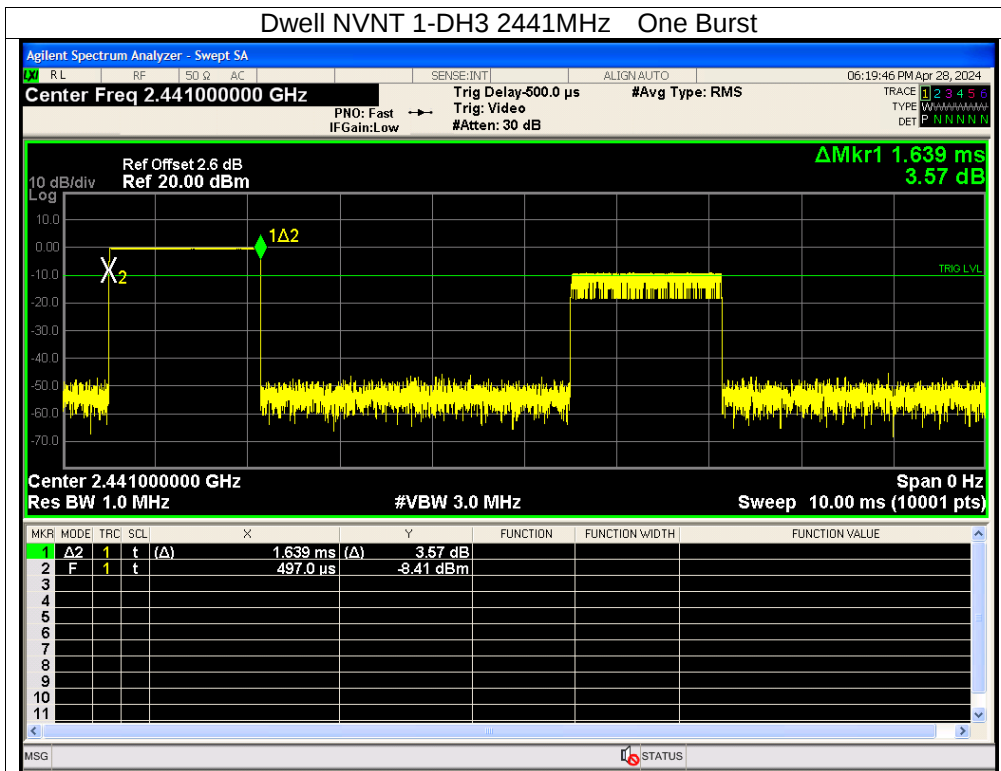
14.4 Test Result

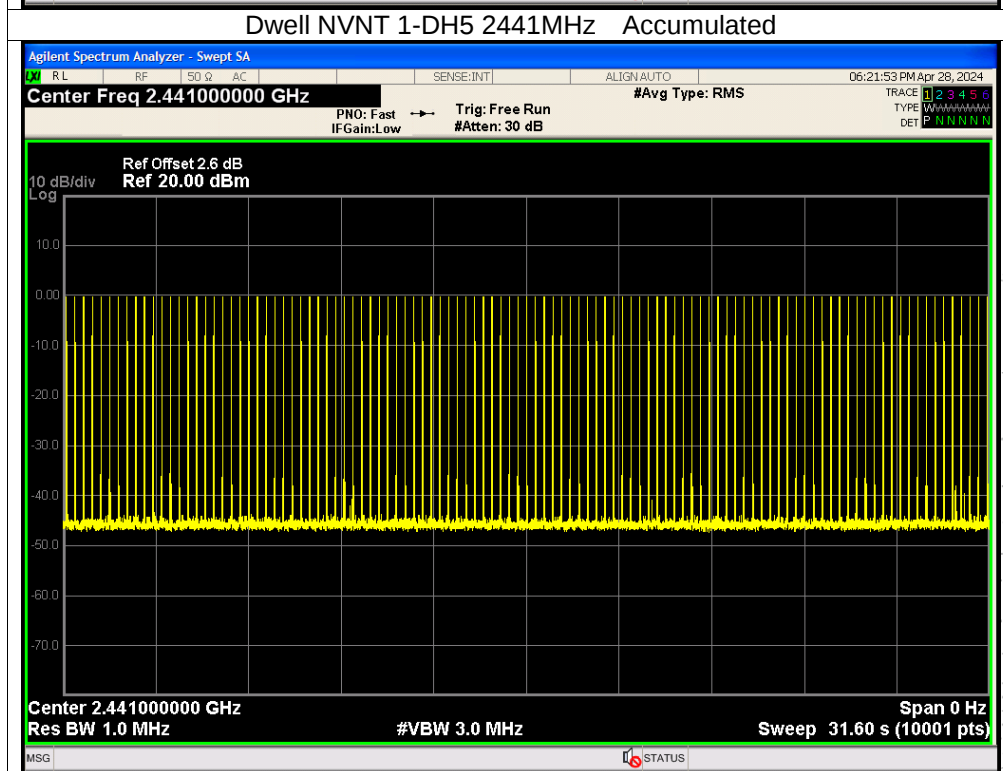
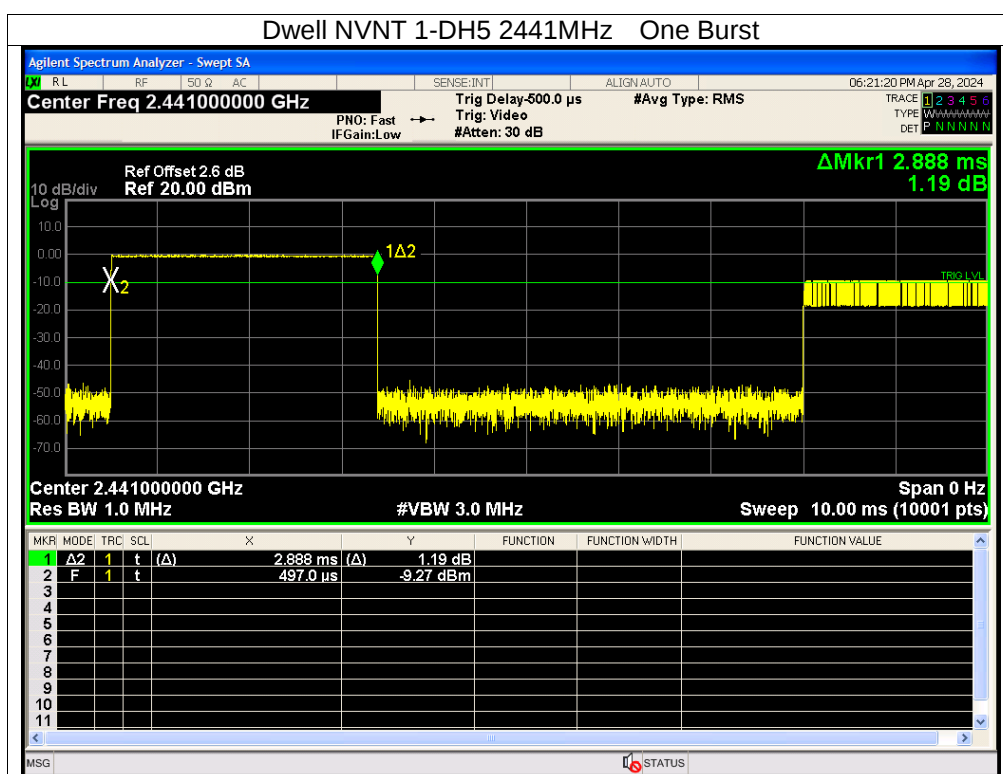
Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
1-DH1	2441	0.384	122.88	320	31600	400	Pass
1-DH3	2441	1.639	262.24	160	31600	400	Pass
1-DH5	2441	2.888	309.016	107	31600	400	Pass
2-DH1	2441	0.368	117.392	319	31600	400	Pass
2-DH3	2441	1.618	257.262	159	31600	400	Pass
2-DH5	2441	2.866	306.662	107	31600	400	Pass
3-DH1	2441	0.241	76.879	319	31600	400	Pass
3-DH3	2441	1.492	238.72	160	31600	400	Pass
3-DH5	2441	2.741	293.287	107	31600	400	Pass

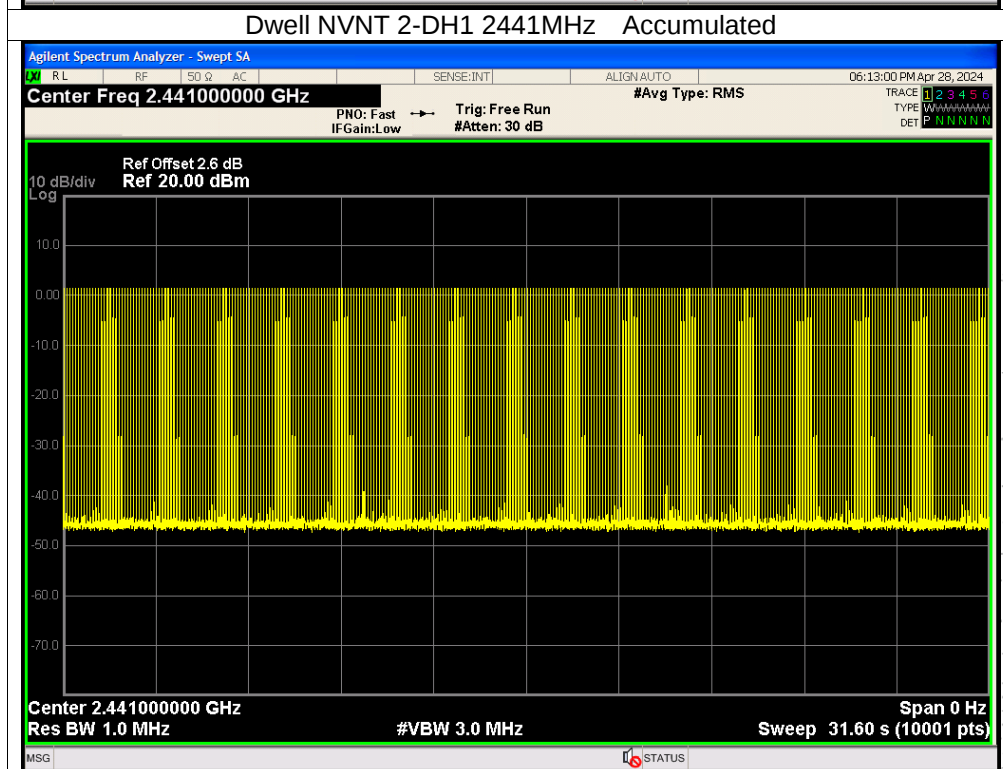
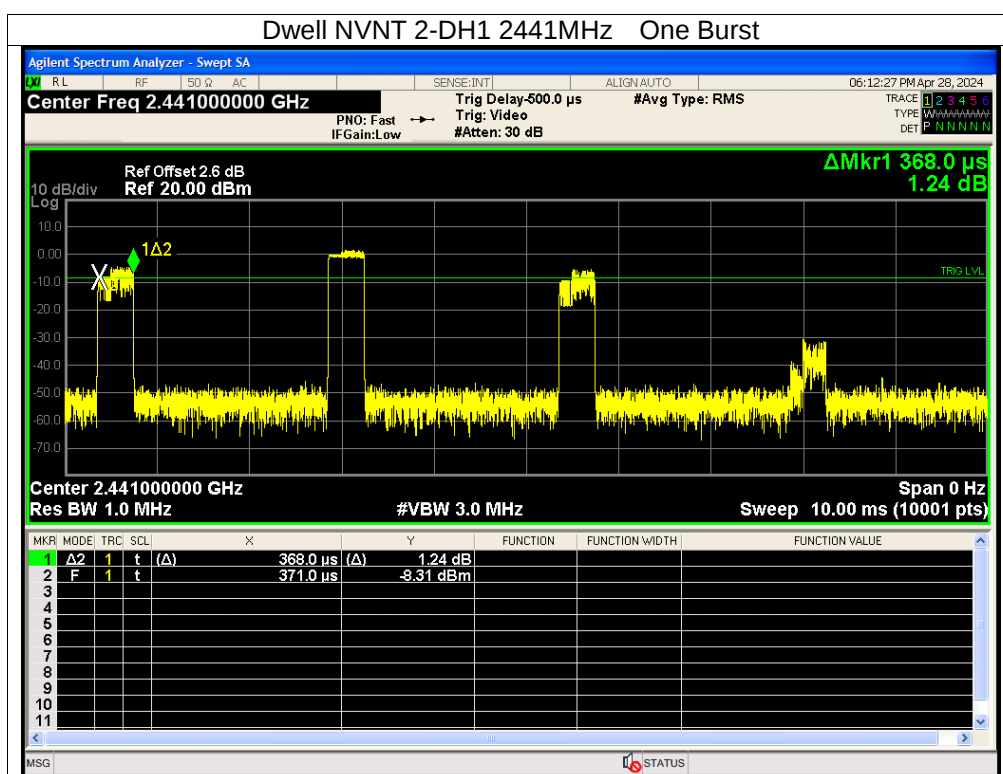
Note: Total Dwell Time (ms) = Pulse Time (ms)*Burst Count

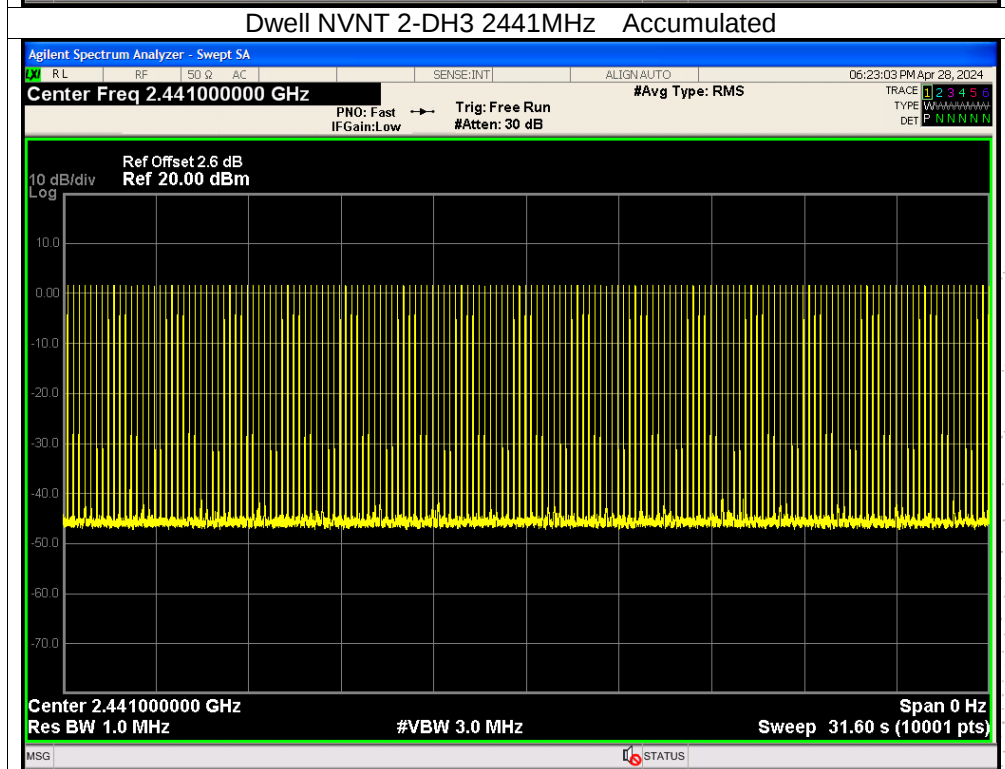
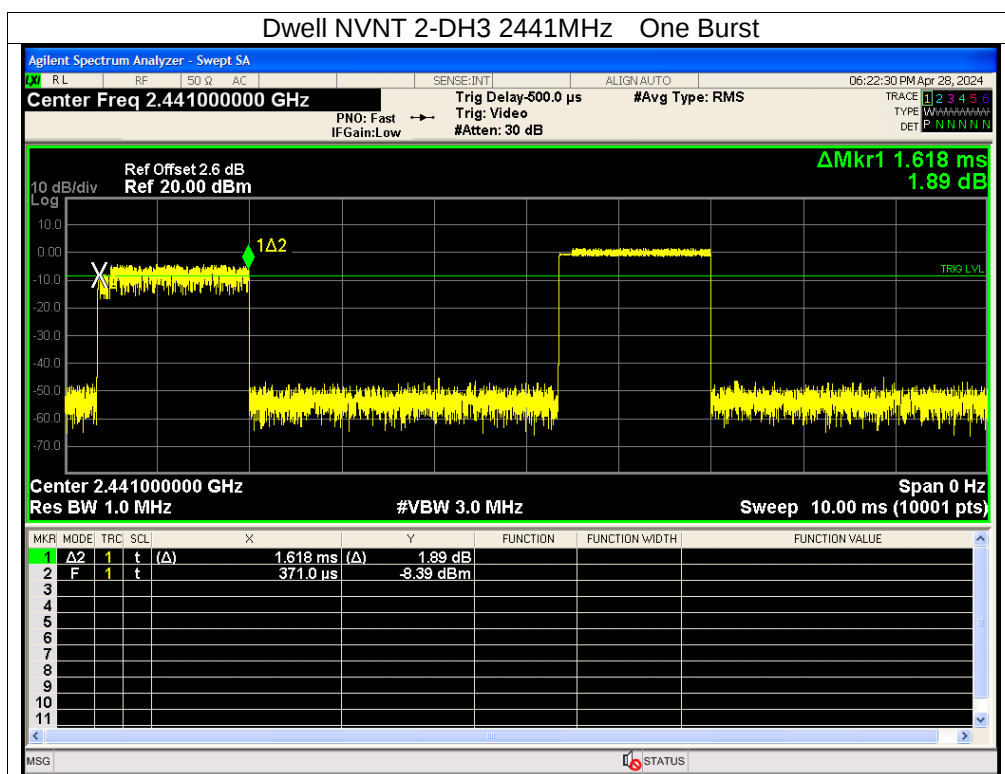


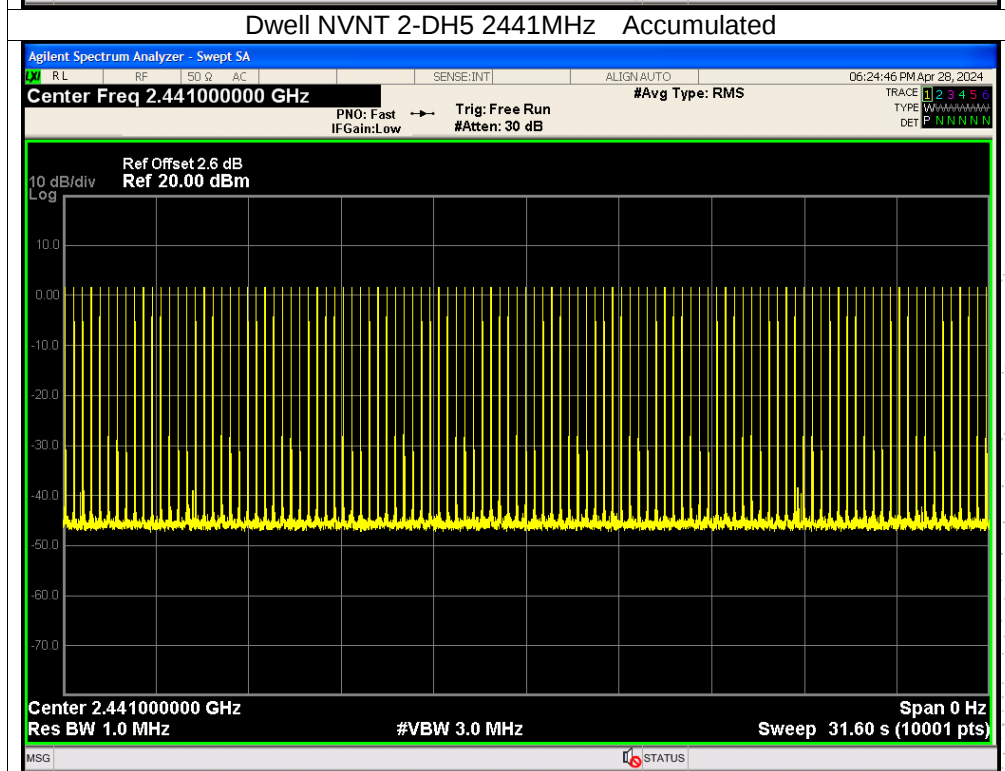
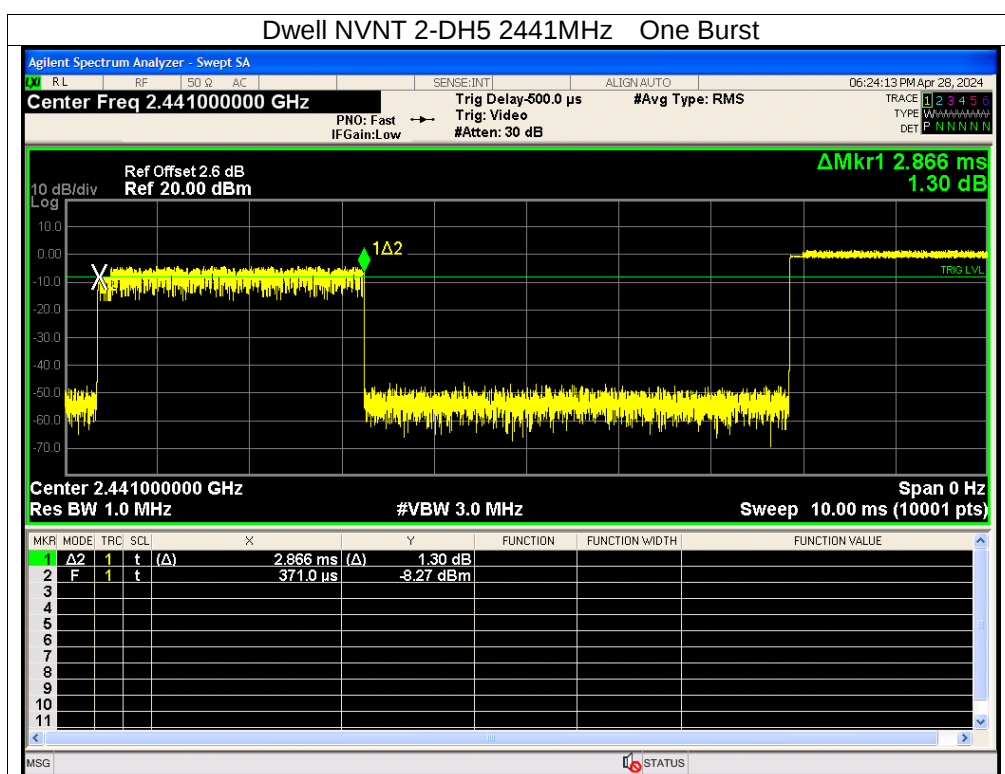
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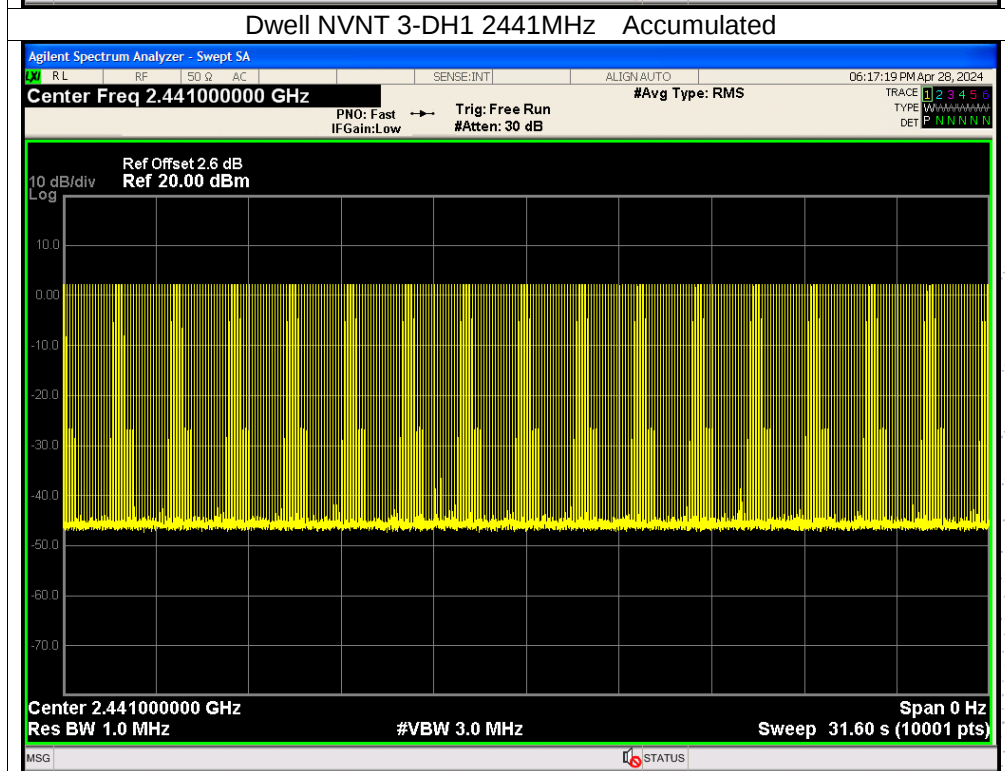
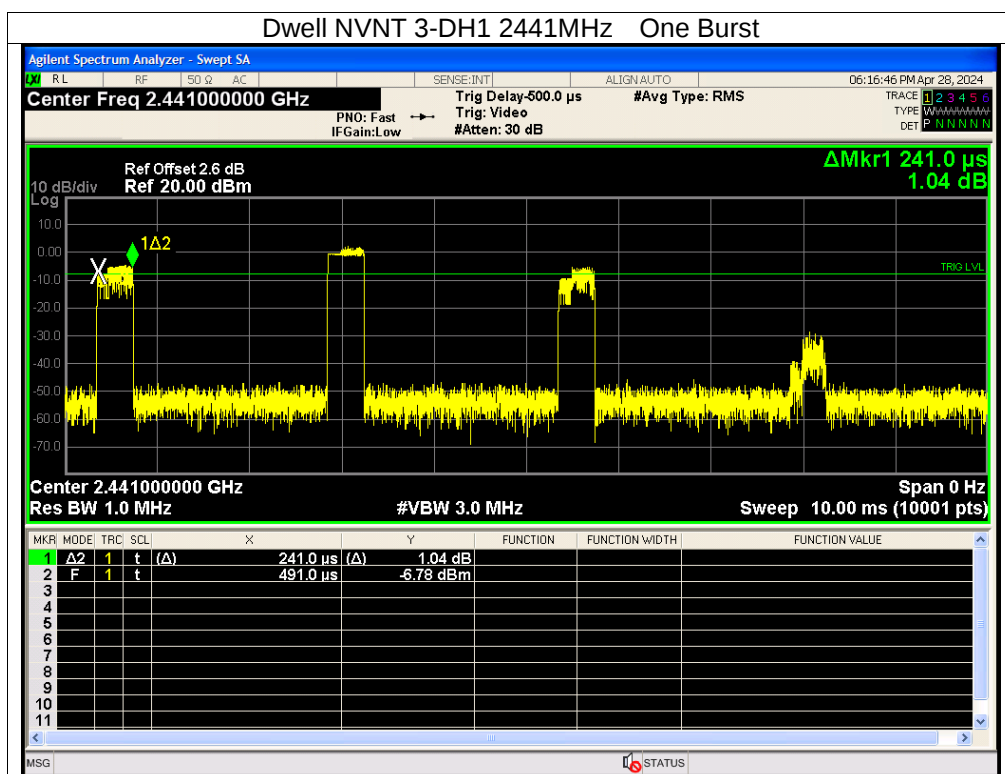


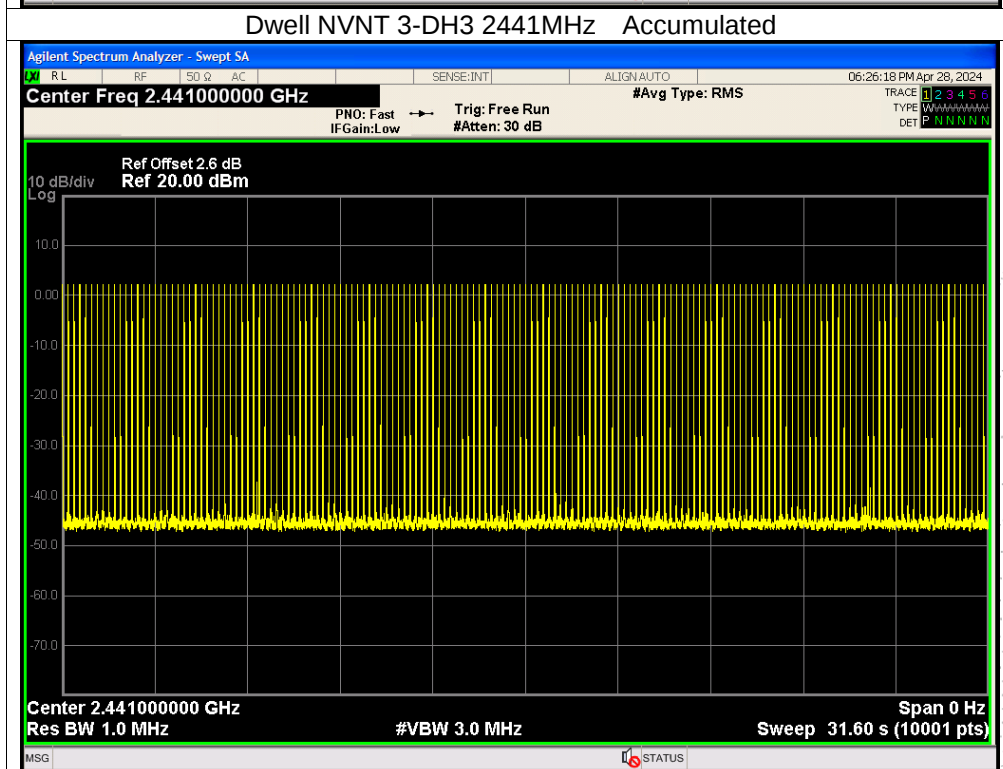
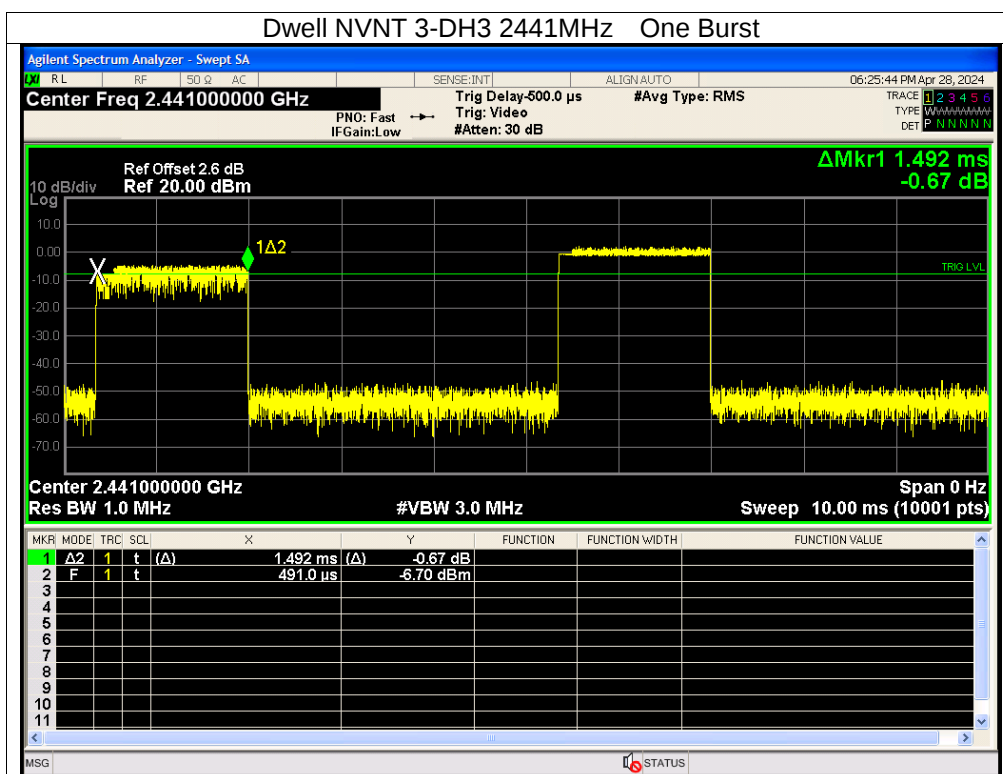




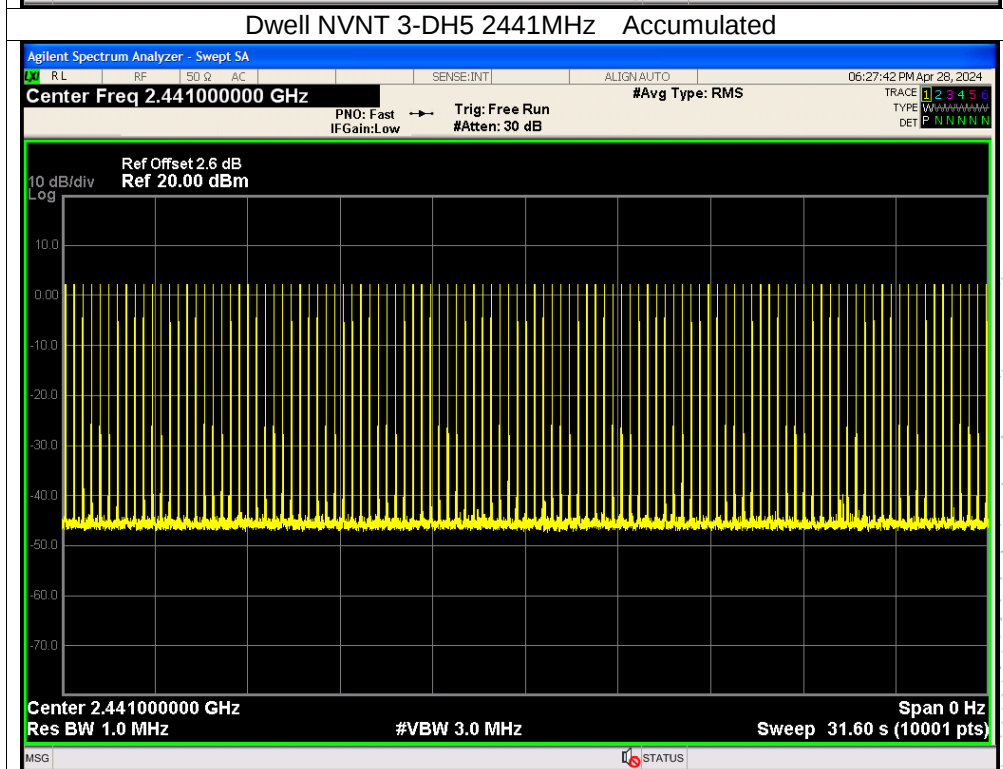
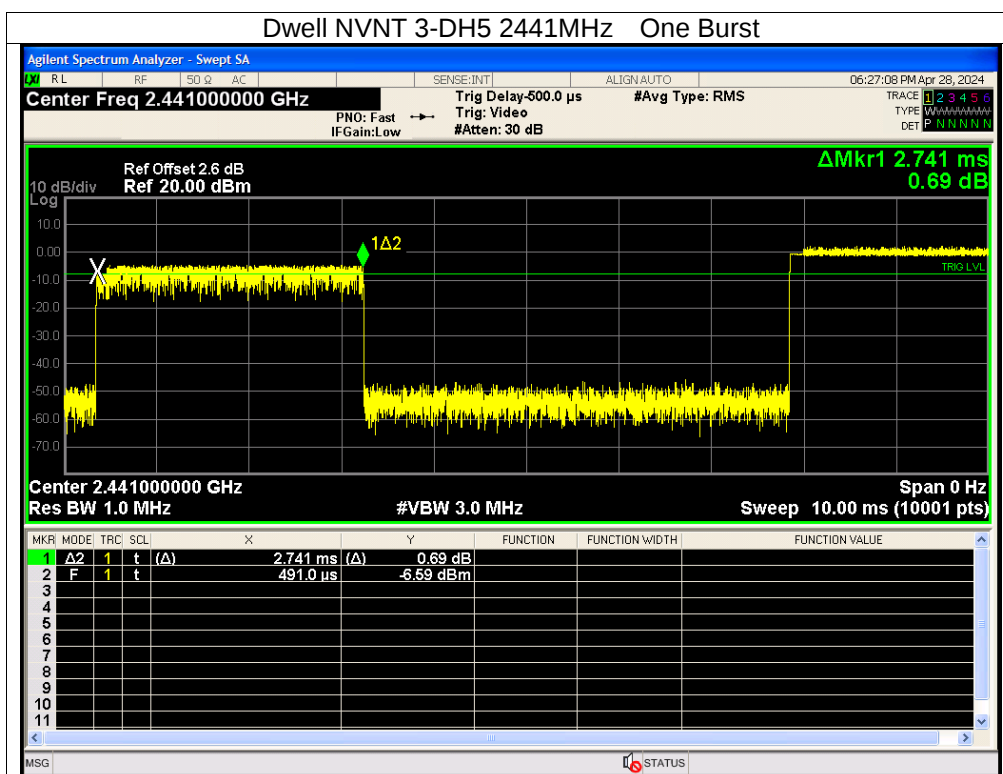








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15. Antenna Requirement

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



NOTE: Appendix-Photographs Of EUT Constructional Details

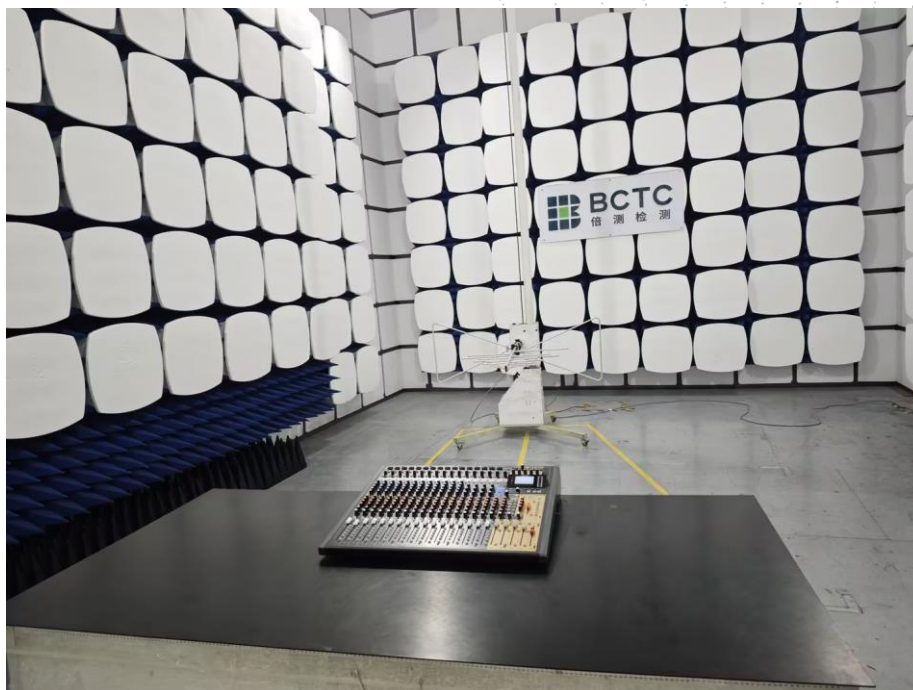
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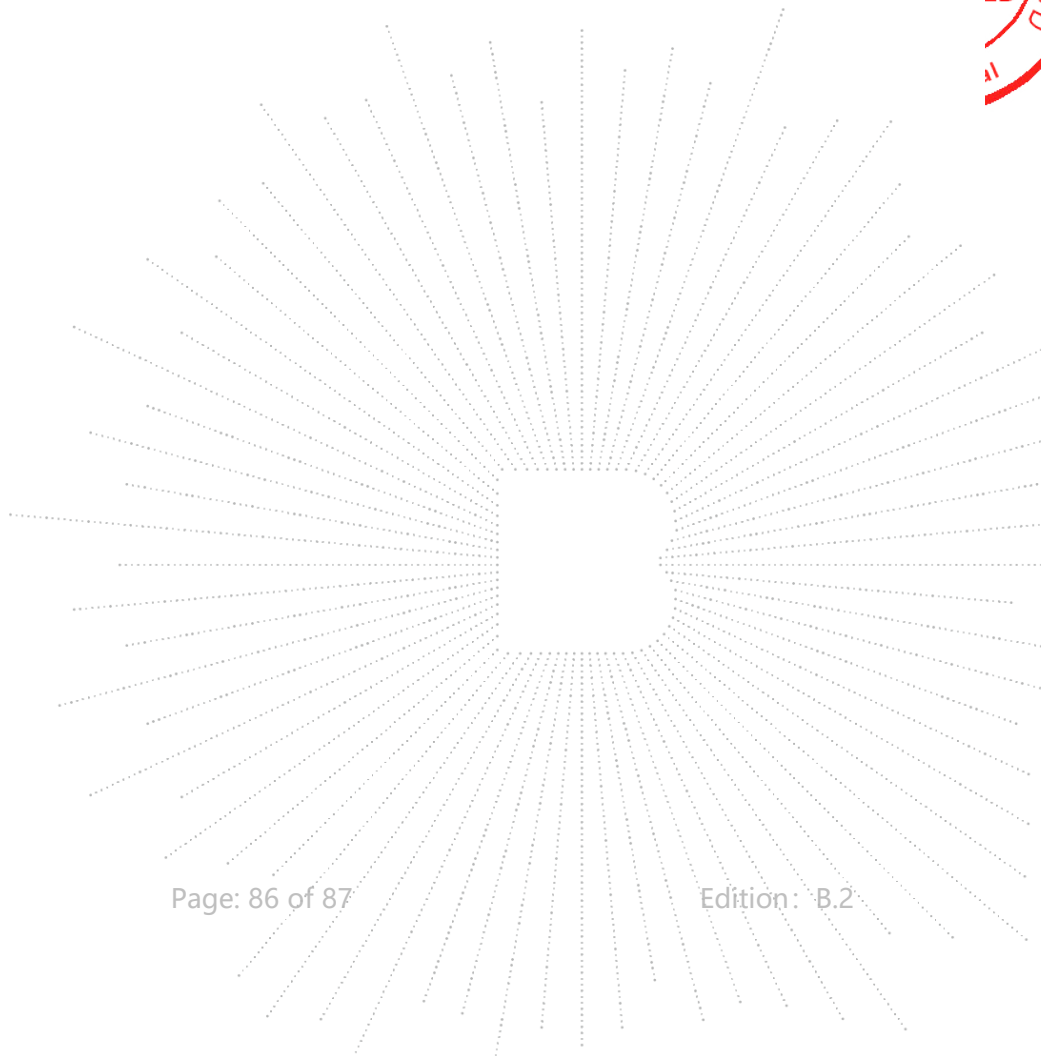
17. EUT Test Setup Photographs

Conducted emissions



Radiated Measurement Photos





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

P.C.: 518103

FAX: 0755-33229357

Website: <http://www.chnbctc.com>

Consultation E-mail: bctc@bctc-lab.com.cn

Complaint/Advice E-mail: advice@bctc-lab.com.cn

***** END *****