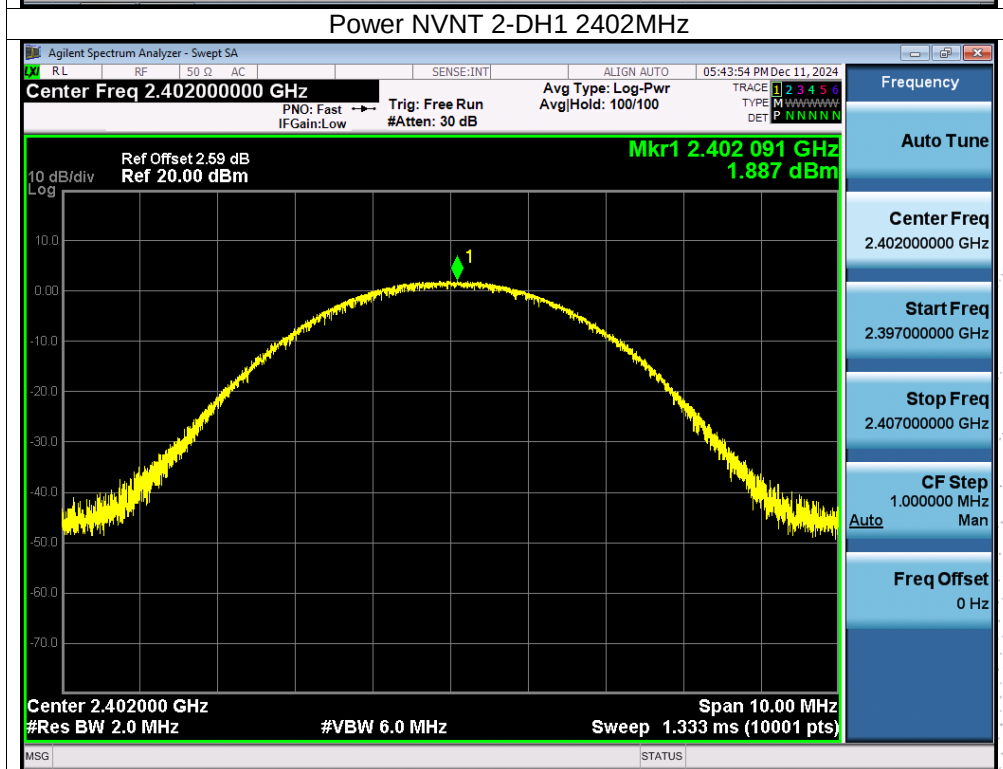
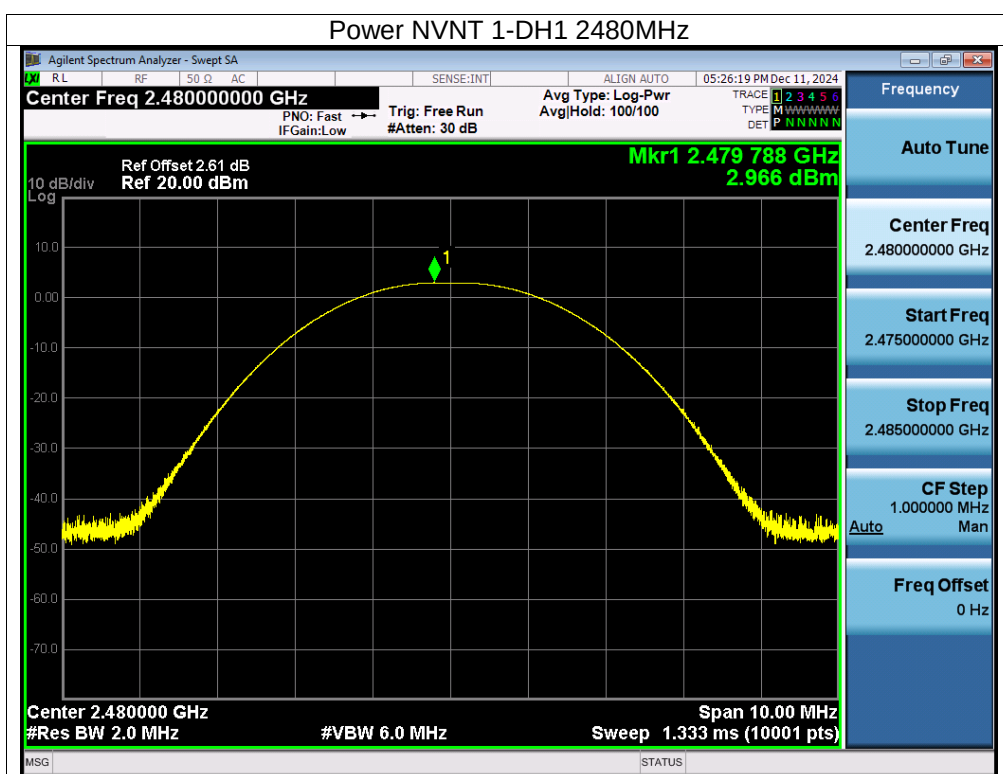
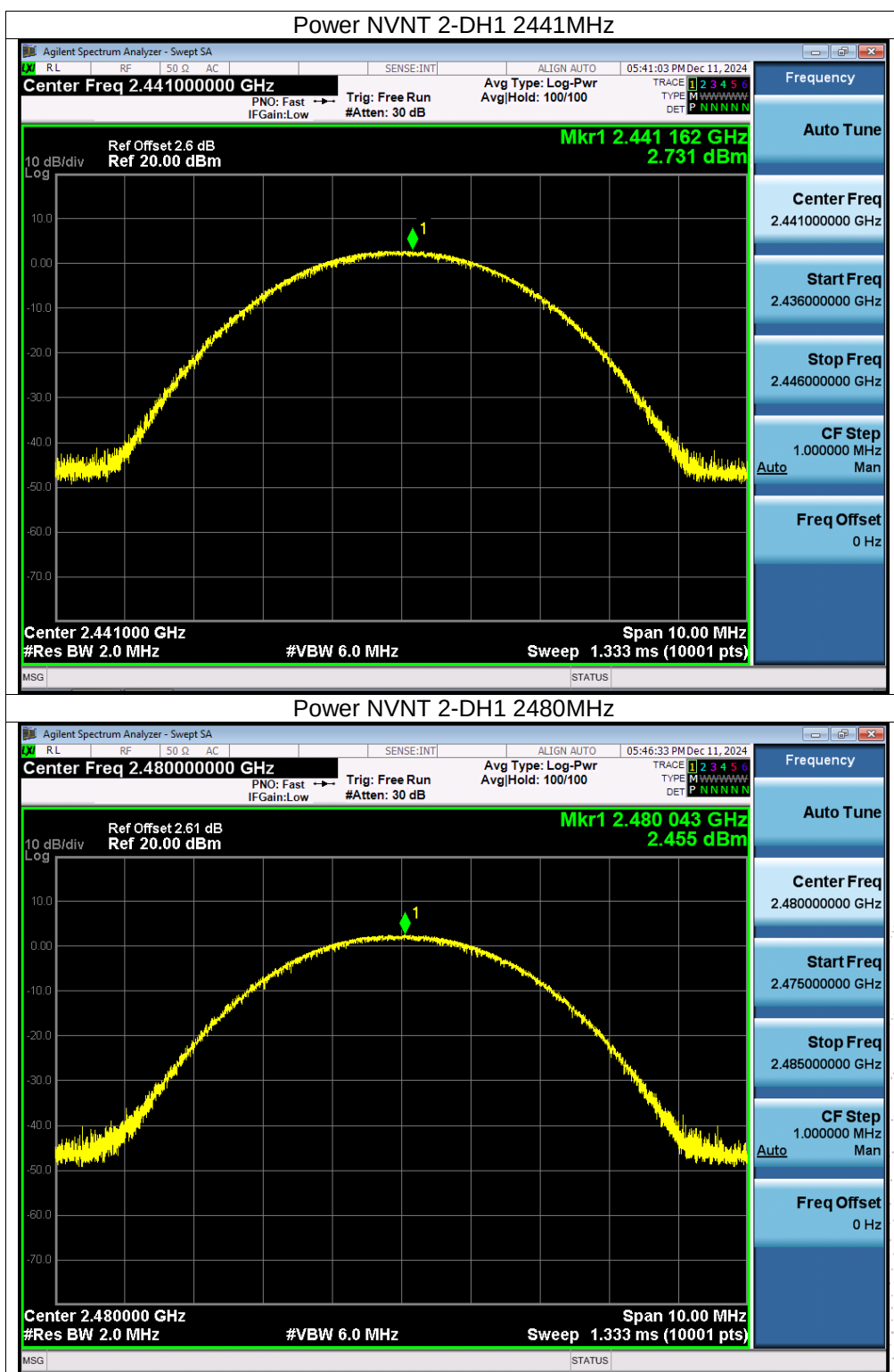
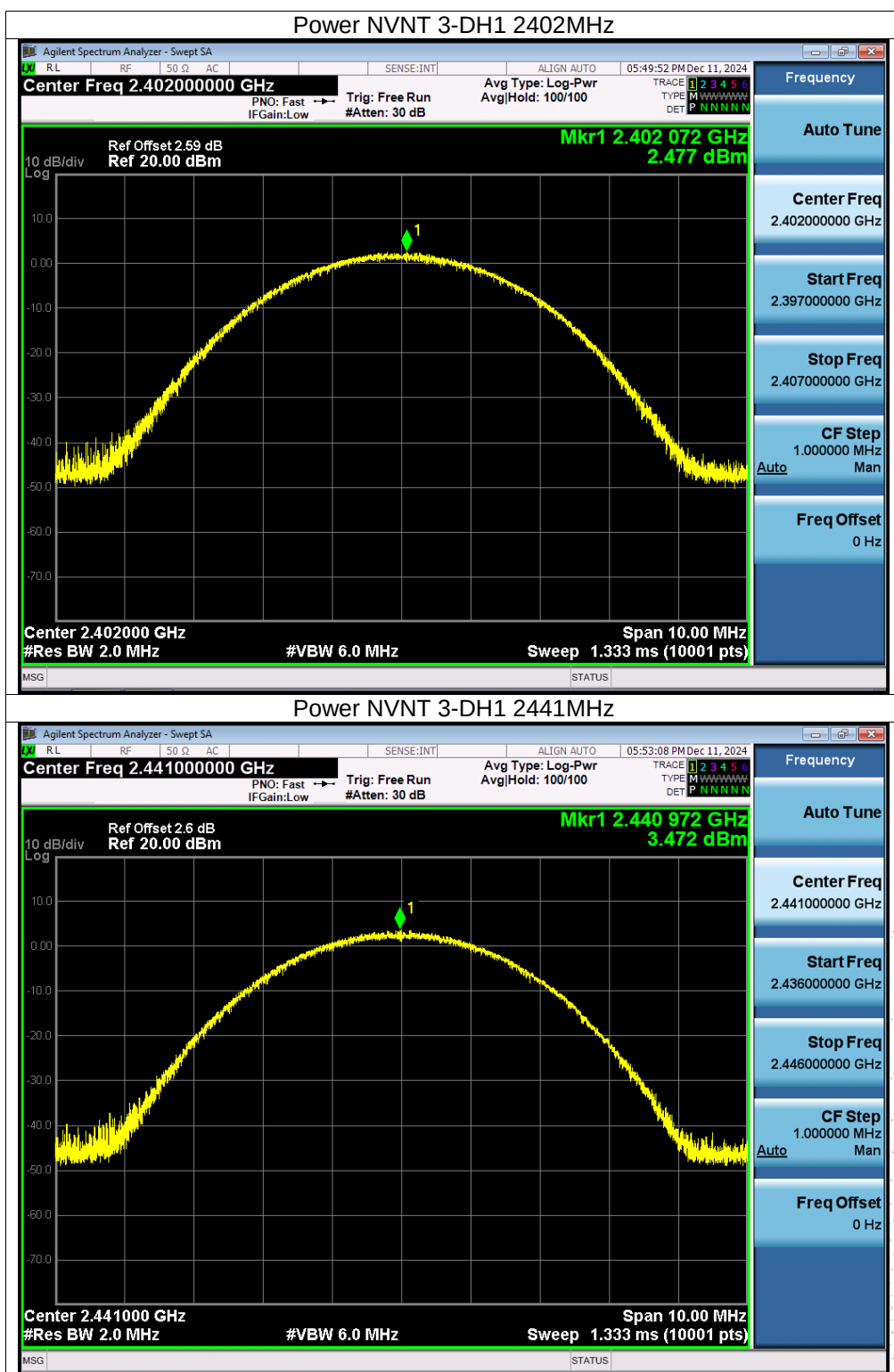
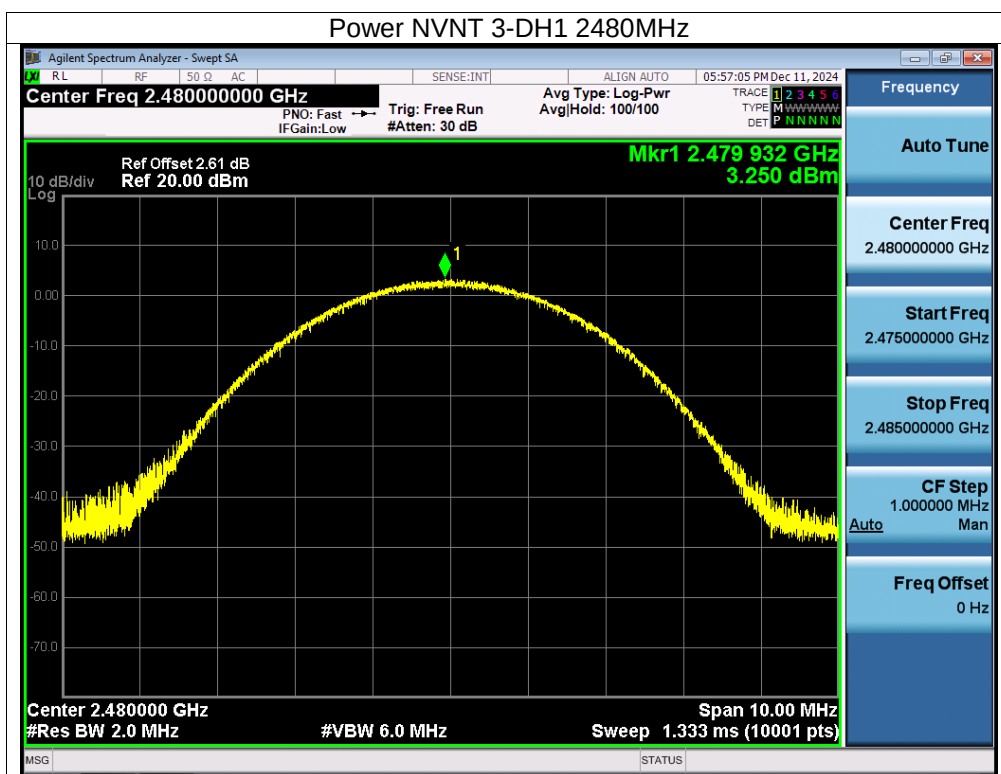






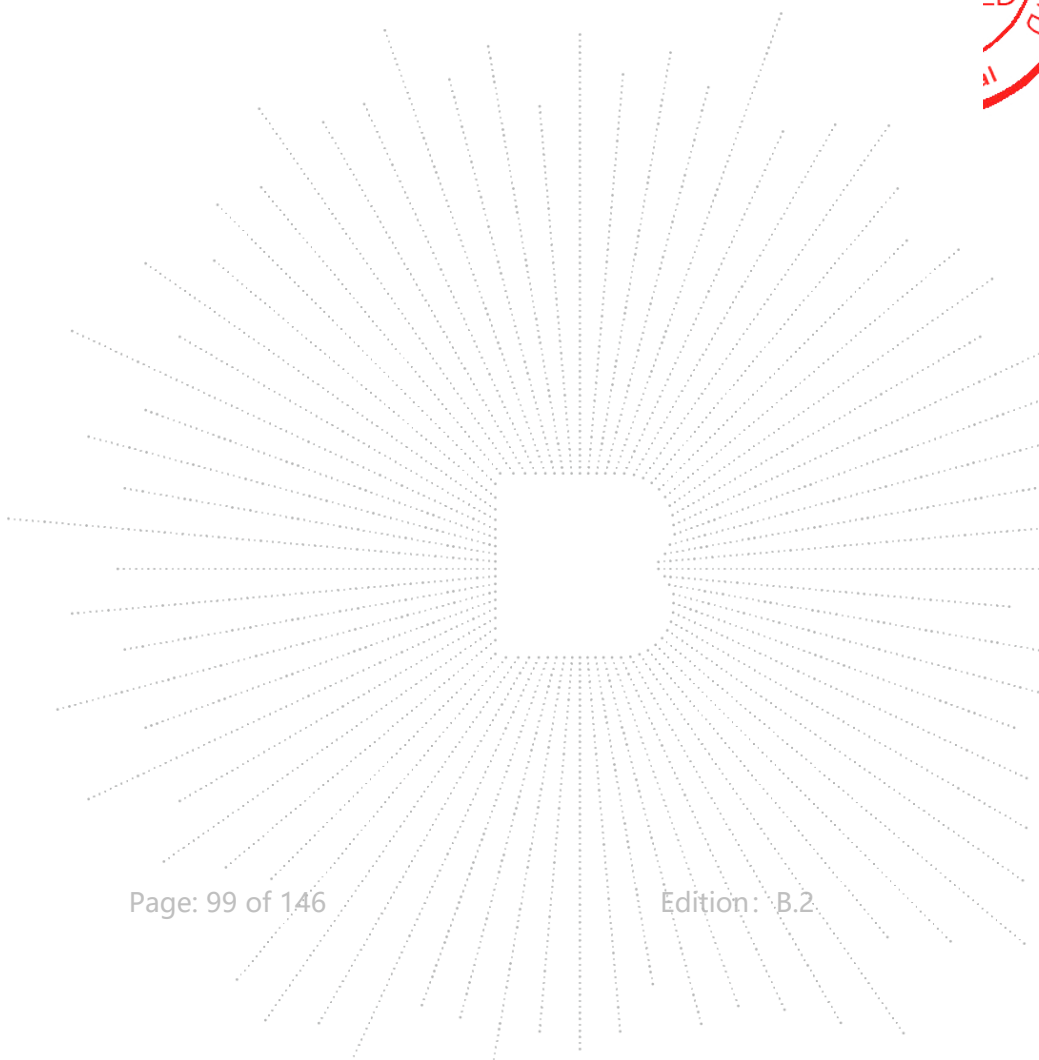


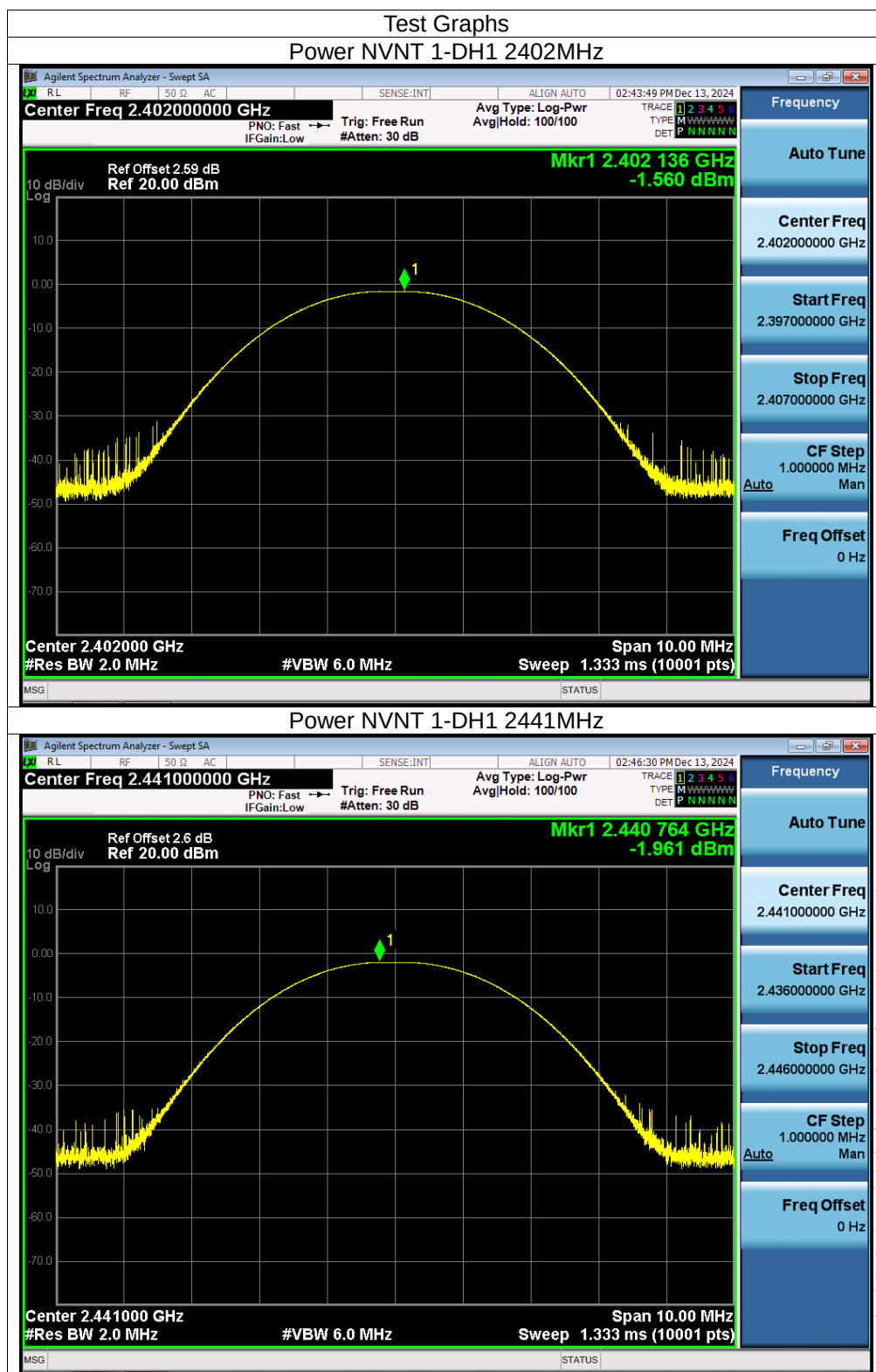


Chip 2

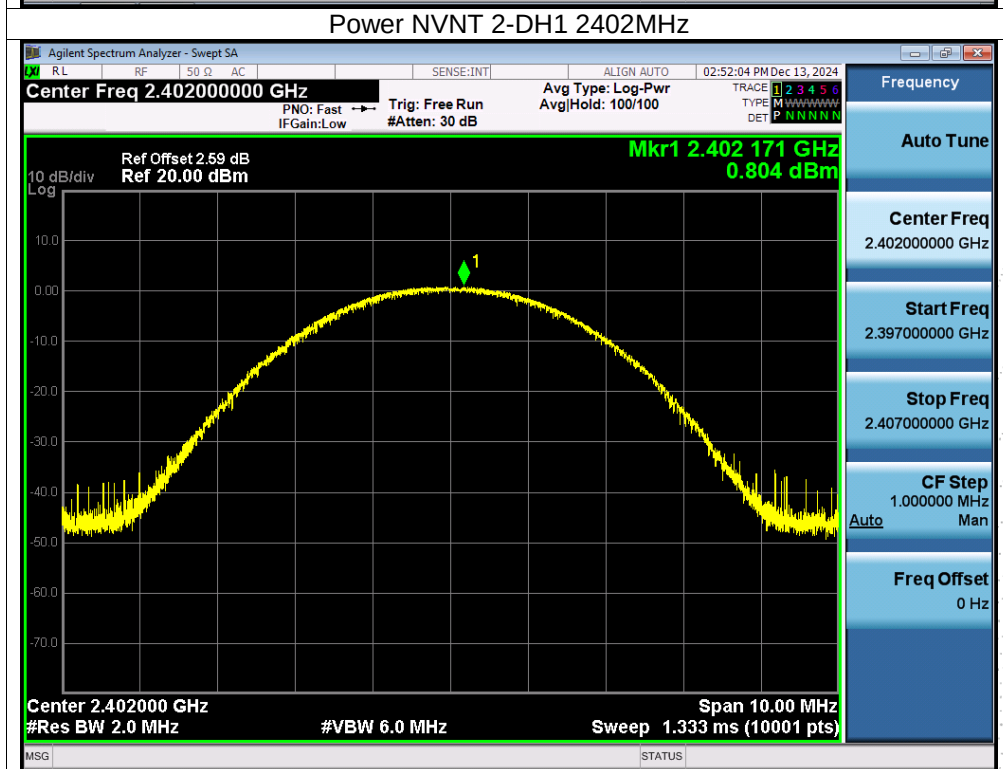
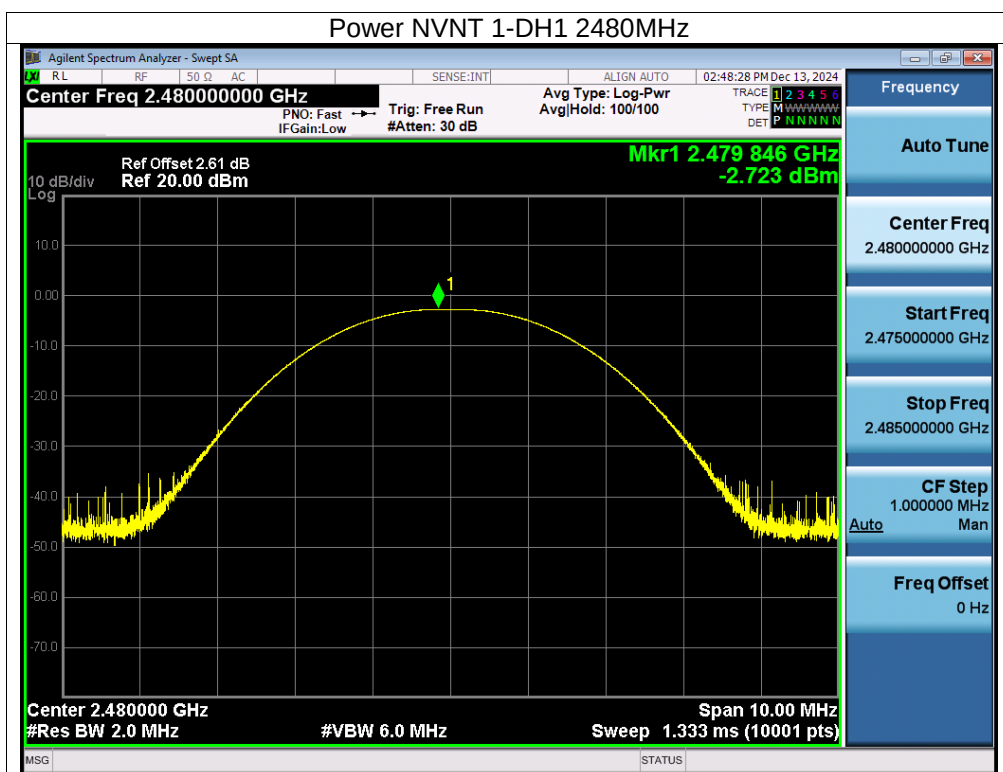
Temperature:	26 °C	Relative Humidity:	54%RH
Pressure:	101KPa	Test Voltage :	DC 3.7V

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	-1.56	21	Pass
NVNT	1-DH1	2441	-1.96	21	Pass
NVNT	1-DH1	2480	-2.72	21	Pass
NVNT	2-DH1	2402	0.80	21	Pass
NVNT	2-DH1	2441	0.37	21	Pass
NVNT	2-DH1	2480	-0.34	21	Pass
NVNT	3-DH1	2402	1.26	21	Pass
NVNT	3-DH1	2441	0.94	21	Pass
NVNT	3-DH1	2480	4.49	21	Pass

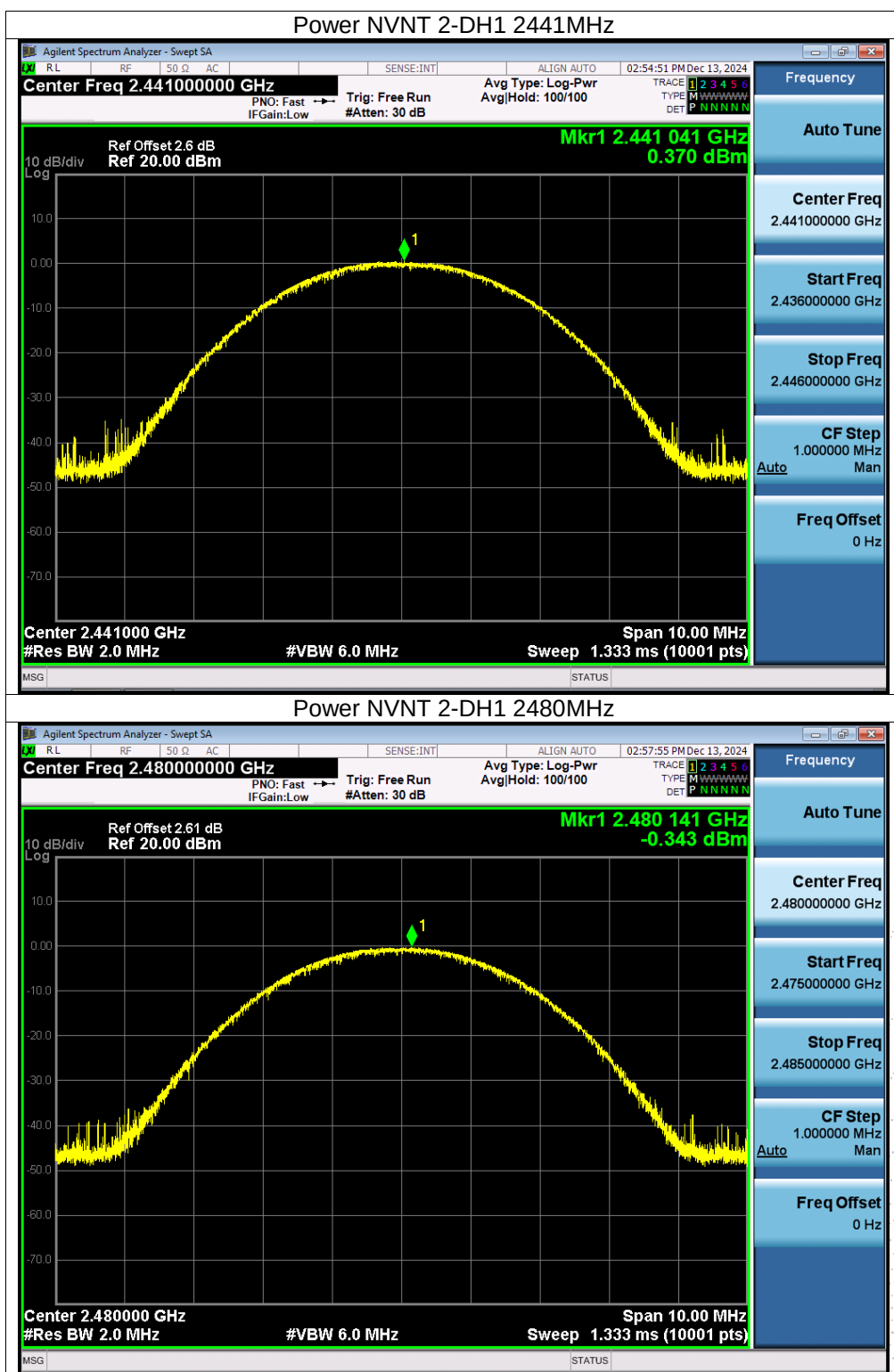


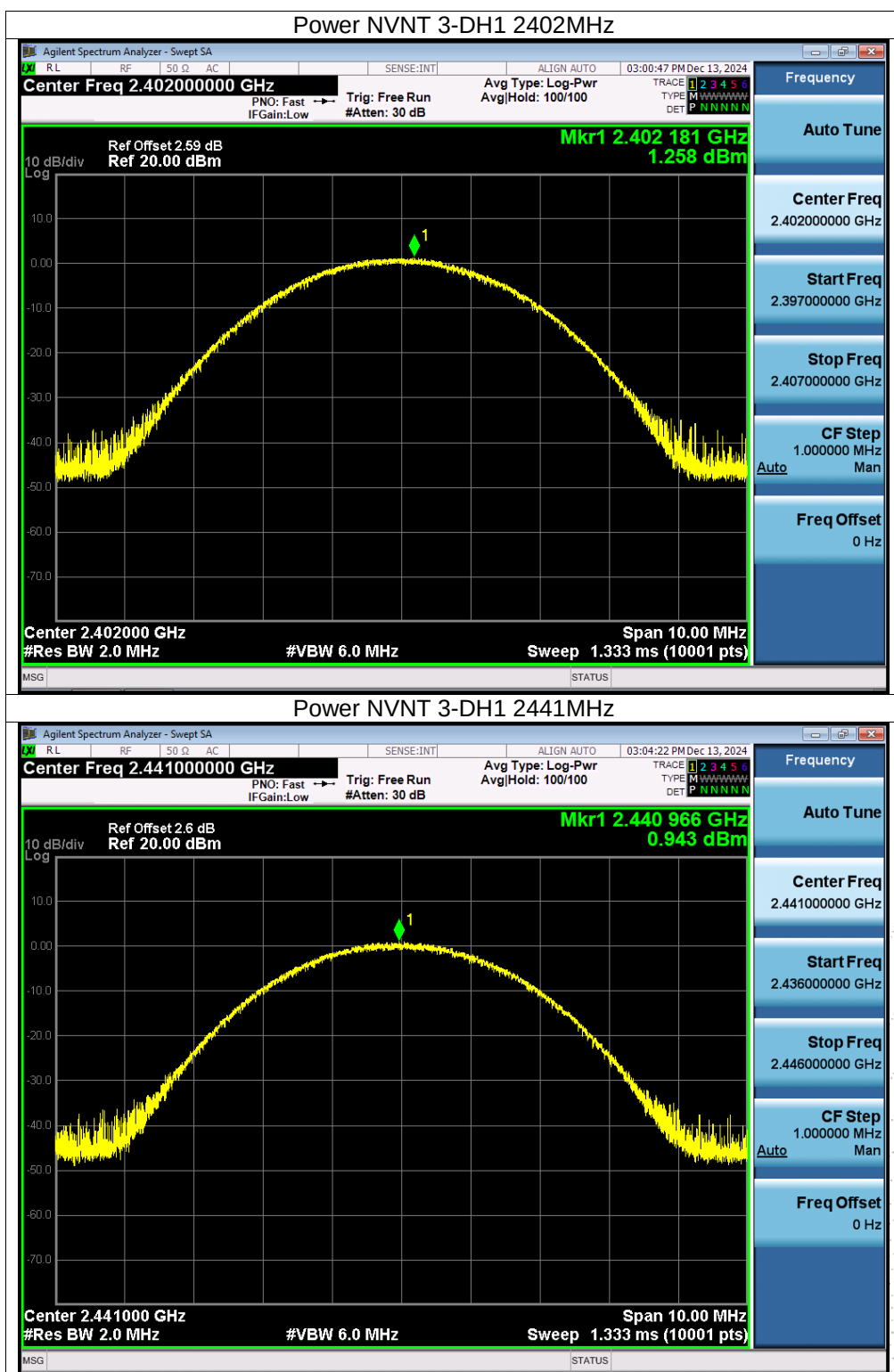


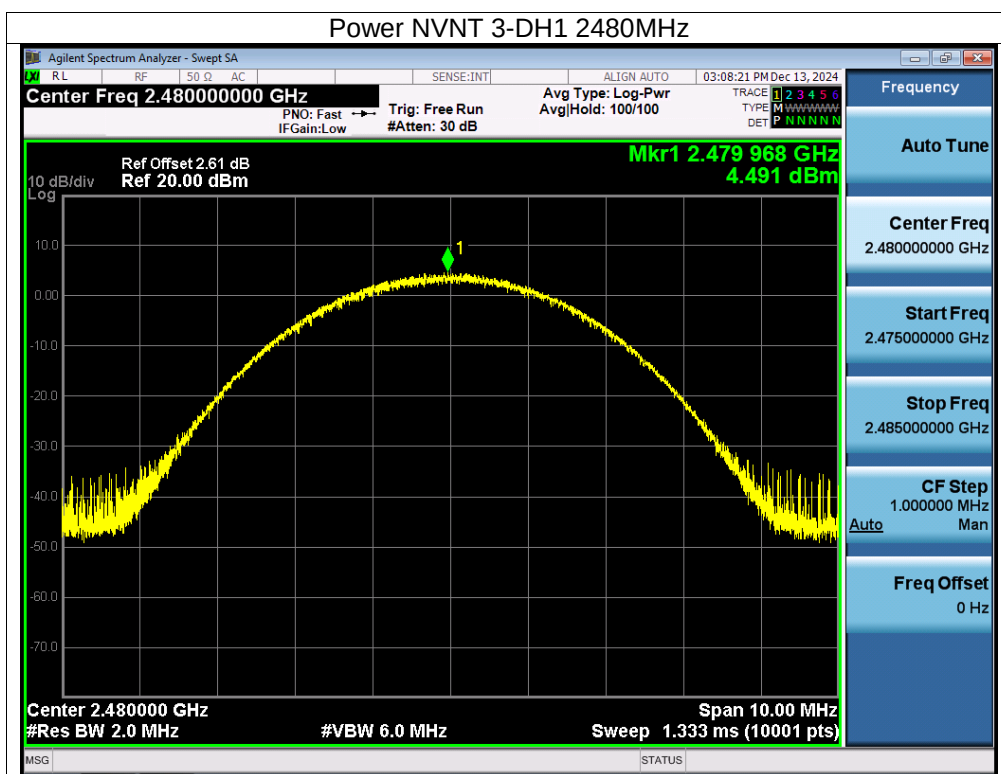
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12. Hopping Channel Separation

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.

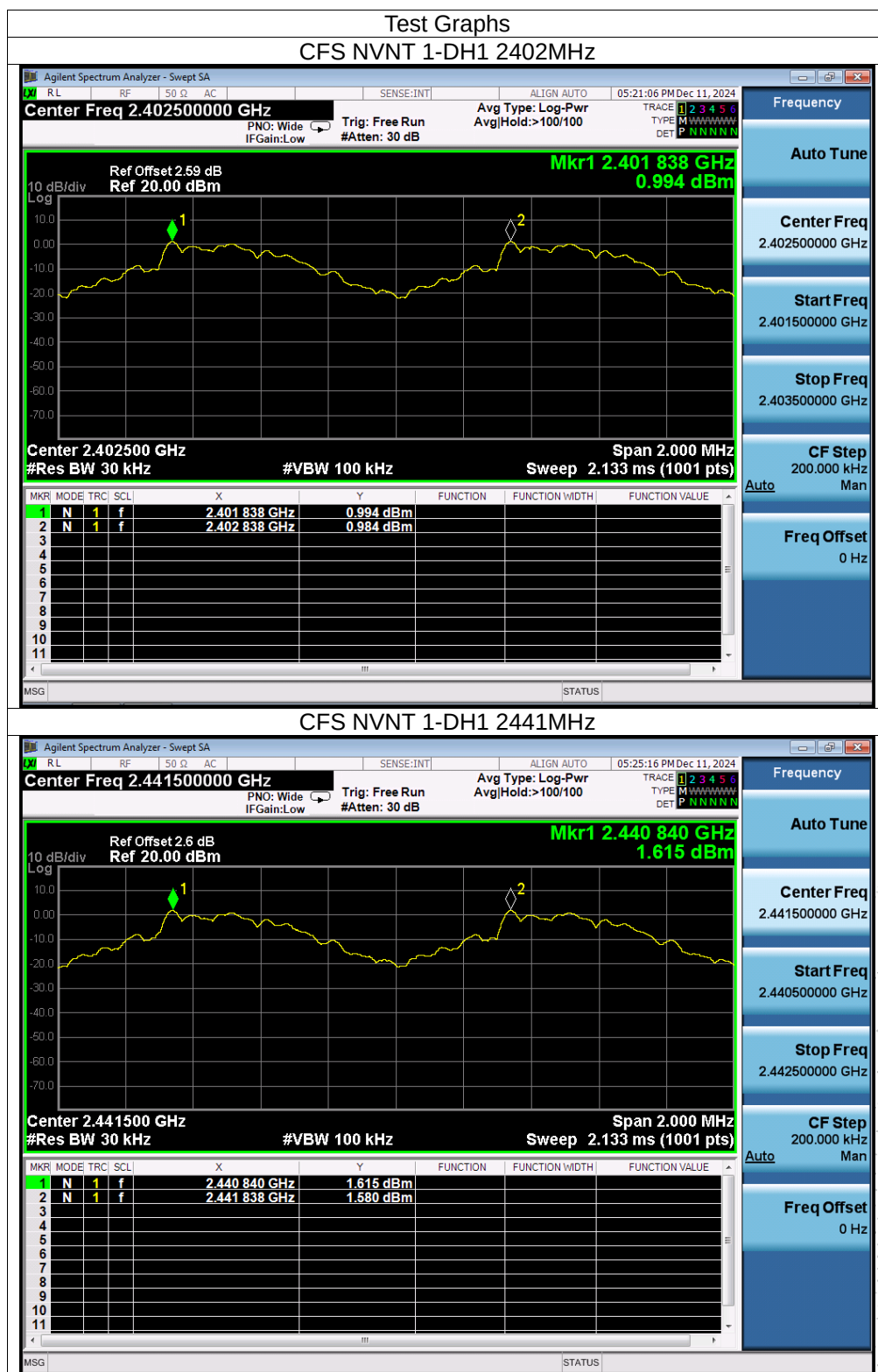
12.3 Test procedure

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.

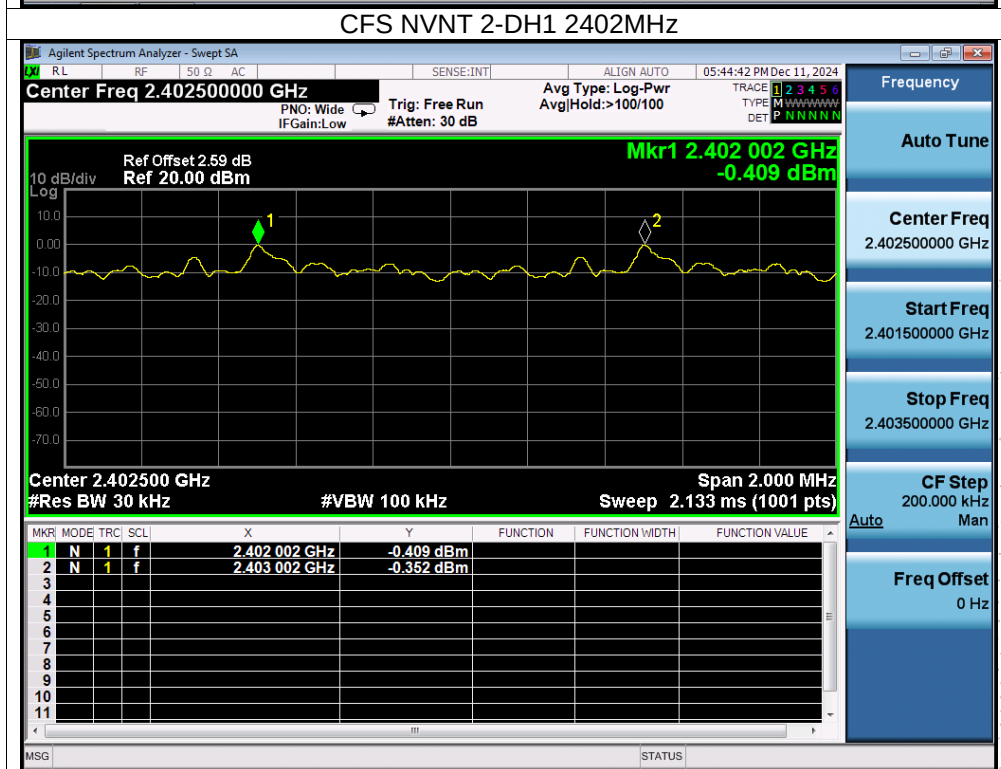
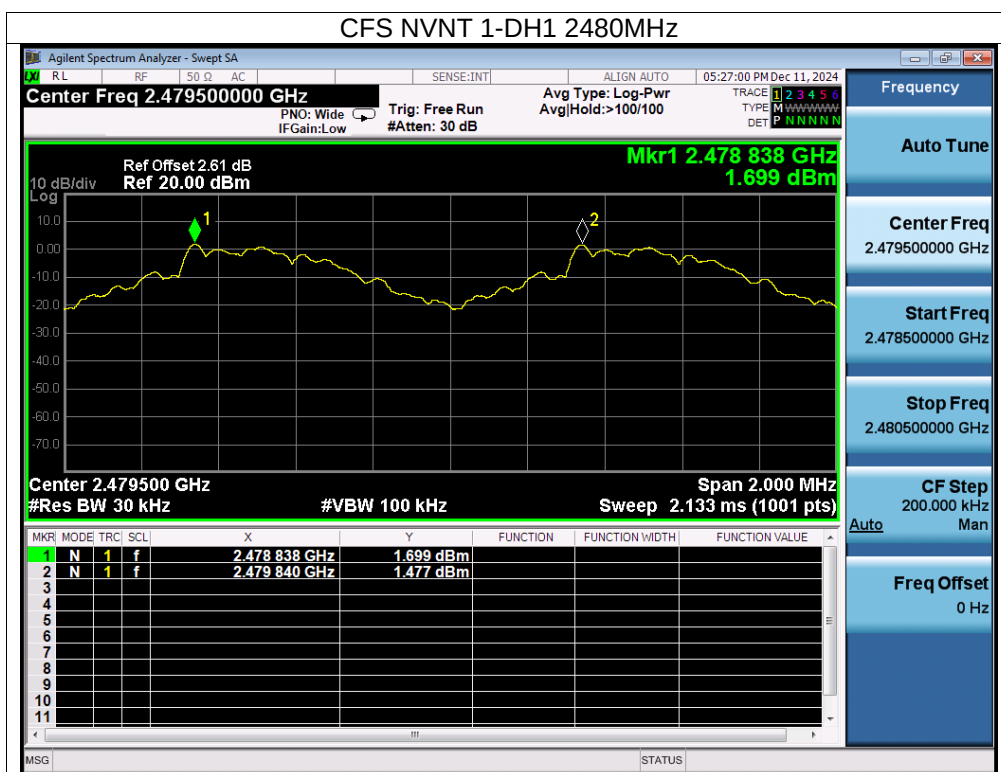
12.4 Test Result

Chip 1

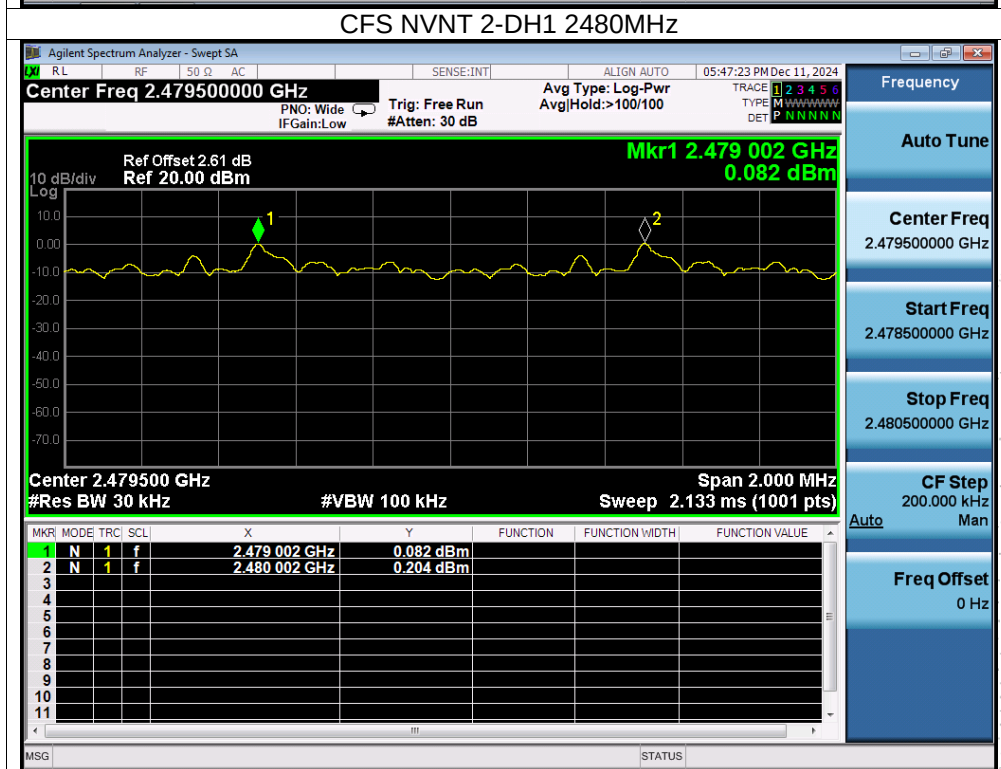
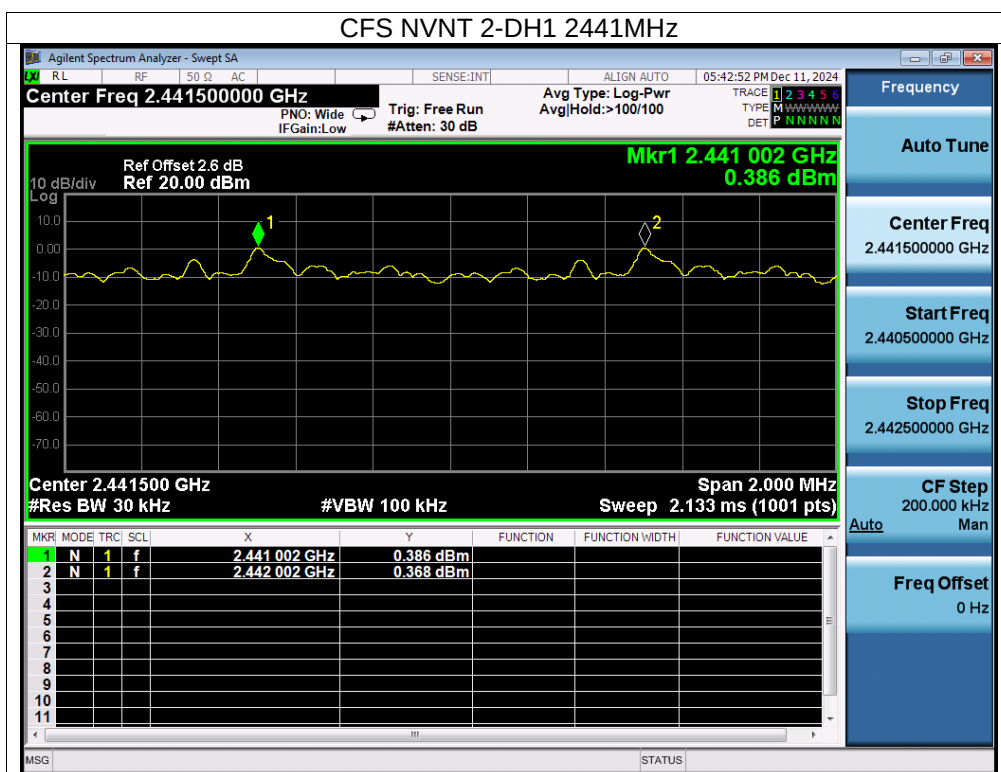
Mode	Test Channel	Separation (MHz)	Limit(MHz)	Result
1-DH1	Low	1.000	0.603	PASS
1-DH1	Middle	0.998	0.611	PASS
1-DH1	High	1.002	0.619	PASS
2-DH1	Low	1.000	0.869	PASS
2-DH1	Middle	1.000	0.875	PASS
2-DH1	High	1.000	0.875	PASS
3-DH1	Low	1.000	0.841	PASS
3-DH1	Middle	1.000	0.855	PASS
3-DH1	High	1.000	0.860	PASS

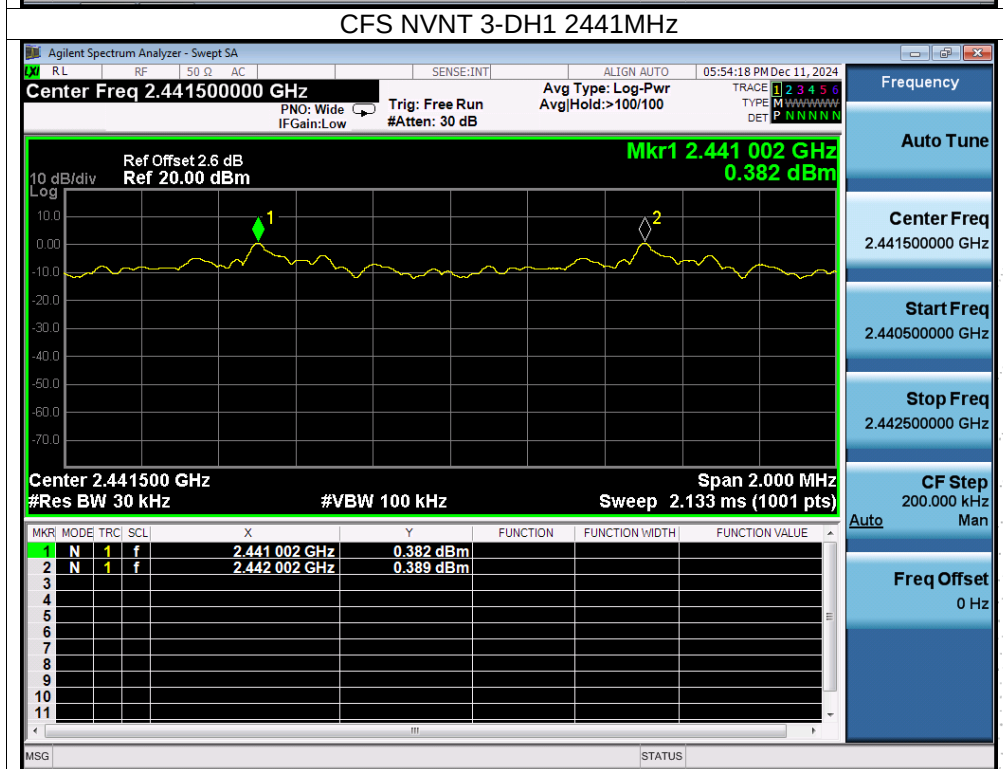
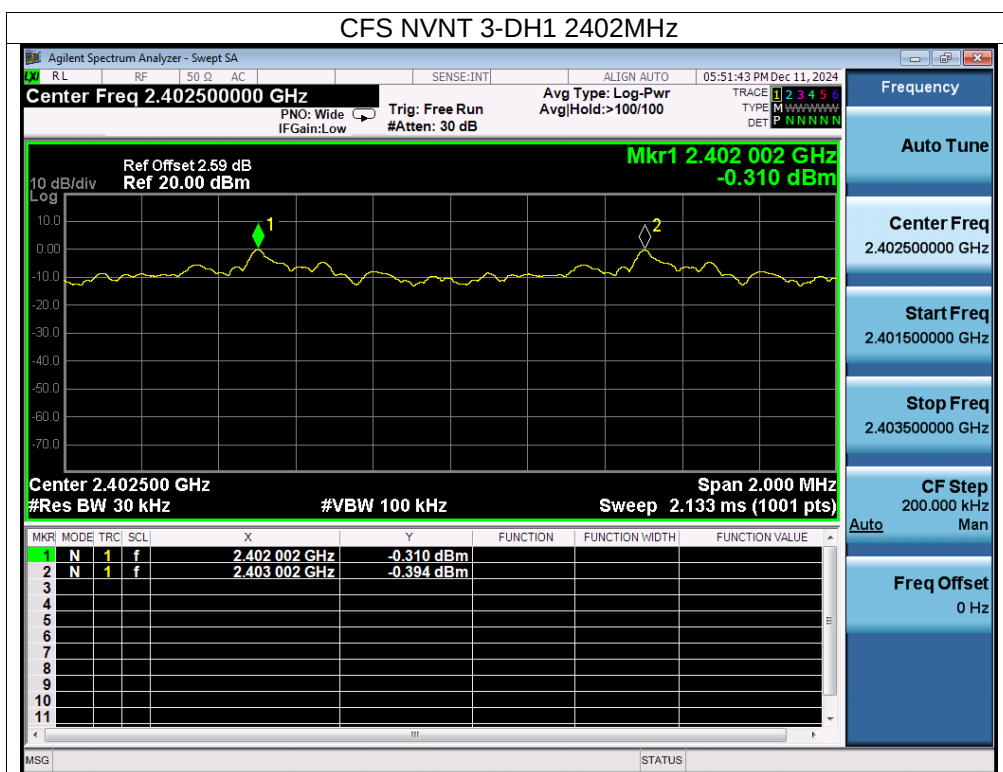


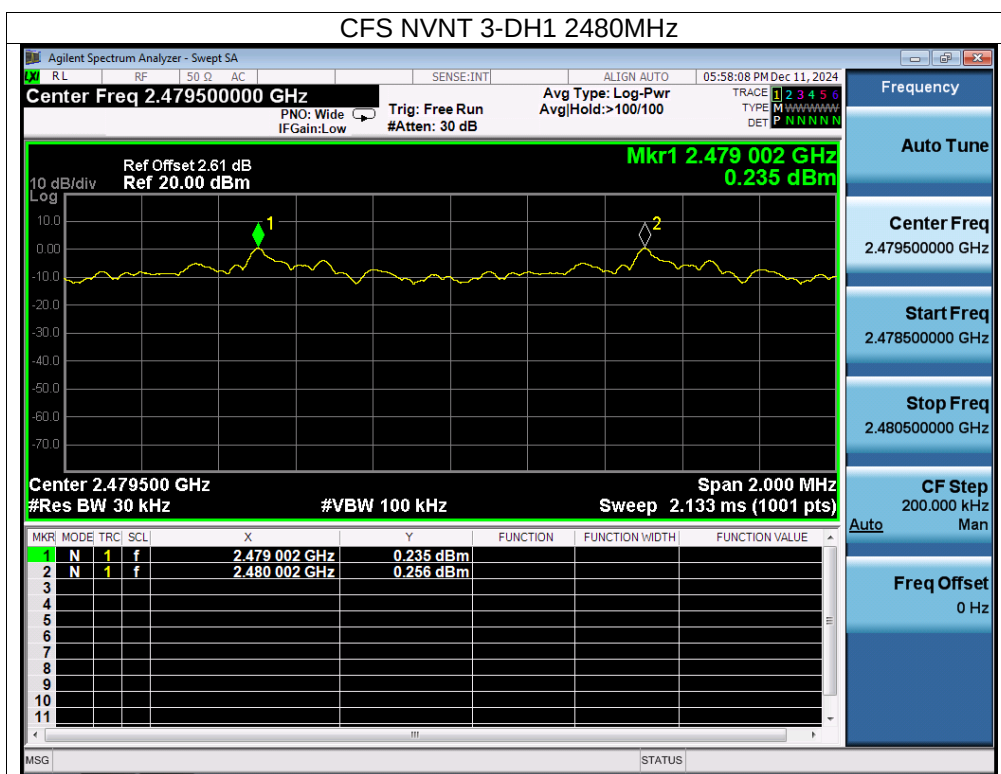
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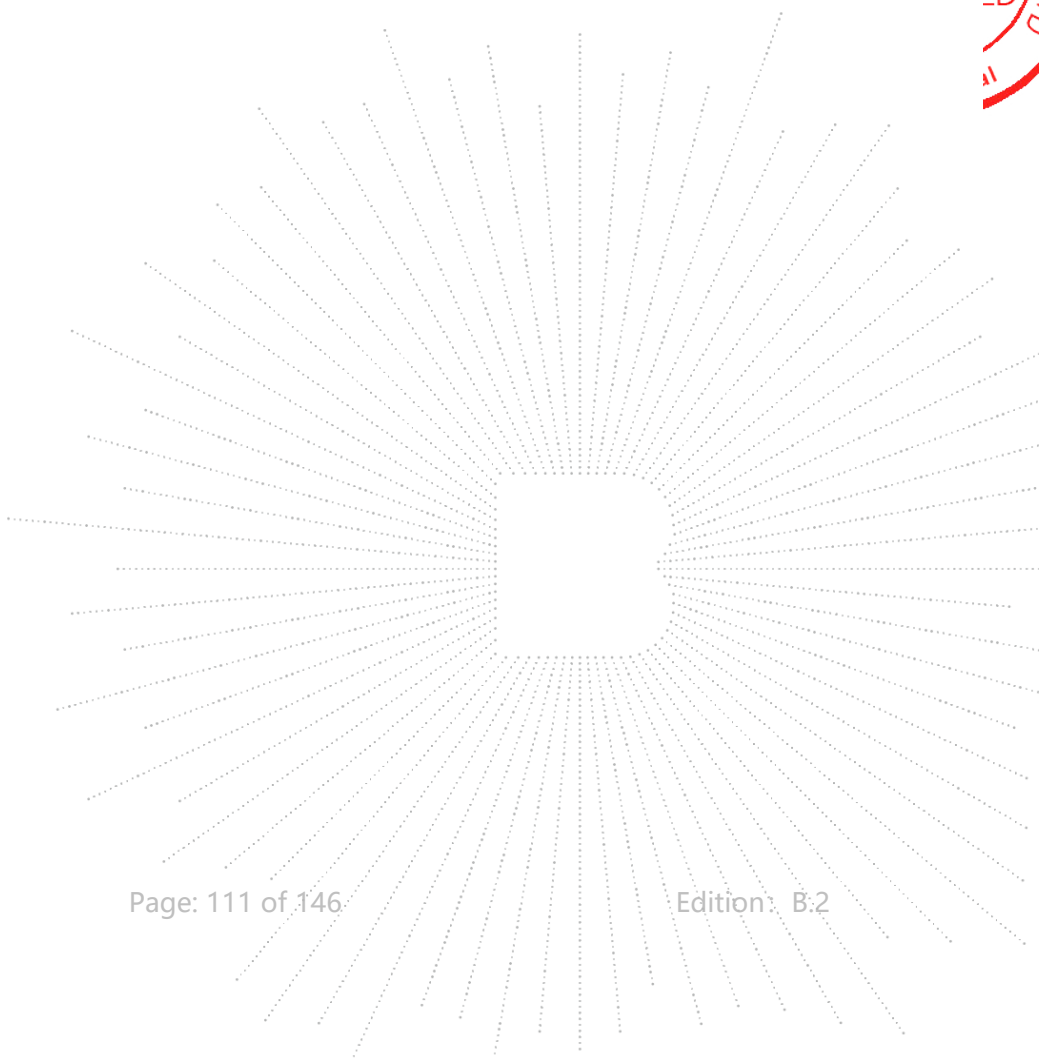




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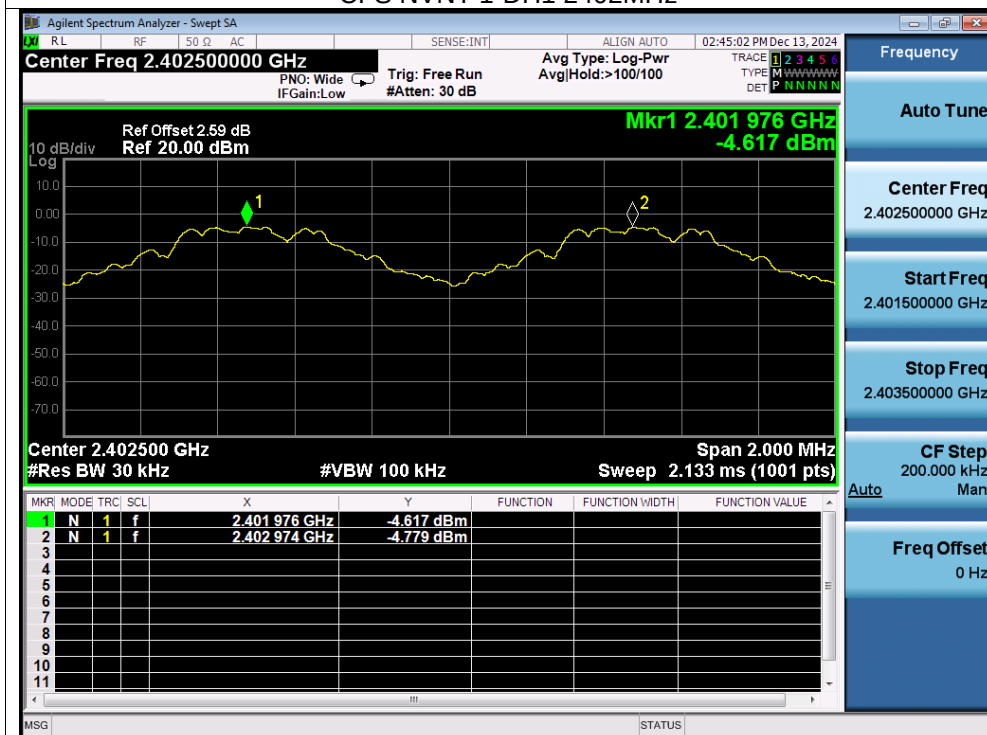
Chip 2

Mode	Test Channel	Separation (MHz)	Limit(MHz)	Result
1-DH1	Low	0.998	0.625	PASS
1-DH1	Middle	0.998	0.641	PASS
1-DH1	High	1.000	0.623	PASS
2-DH1	Low	0.998	0.887	PASS
2-DH1	Middle	1.000	0.892	PASS
2-DH1	High	0.996	0.881	PASS
3-DH1	Low	0.998	0.862	PASS
3-DH1	Middle	1.000	0.862	PASS
3-DH1	High	1.002	0.869	PASS

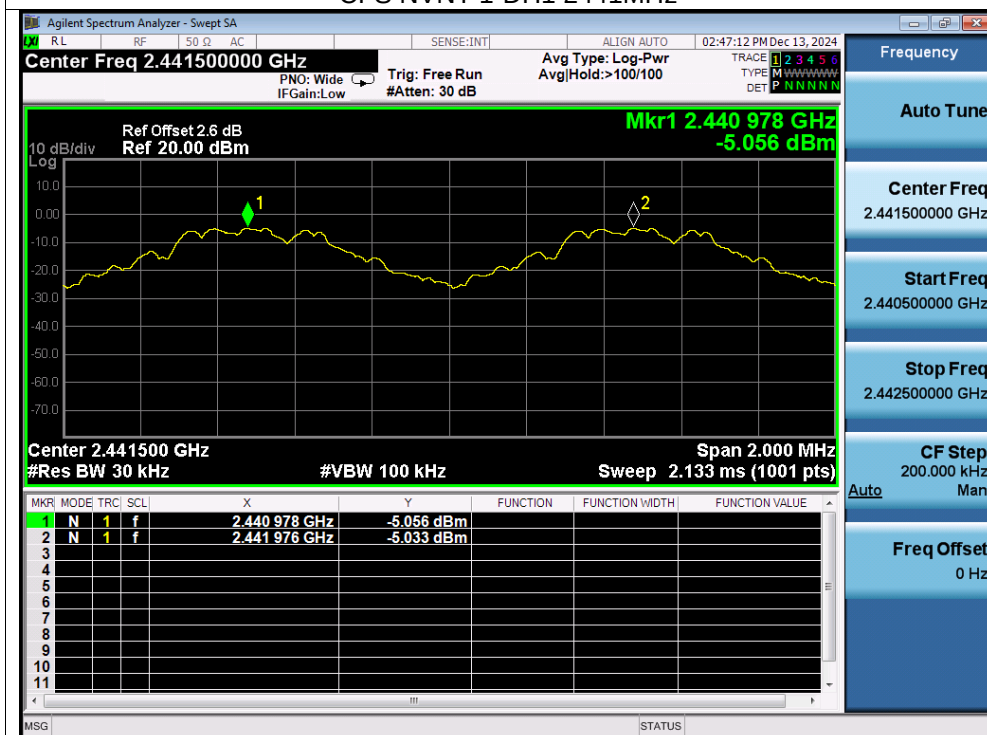


Test Graphs

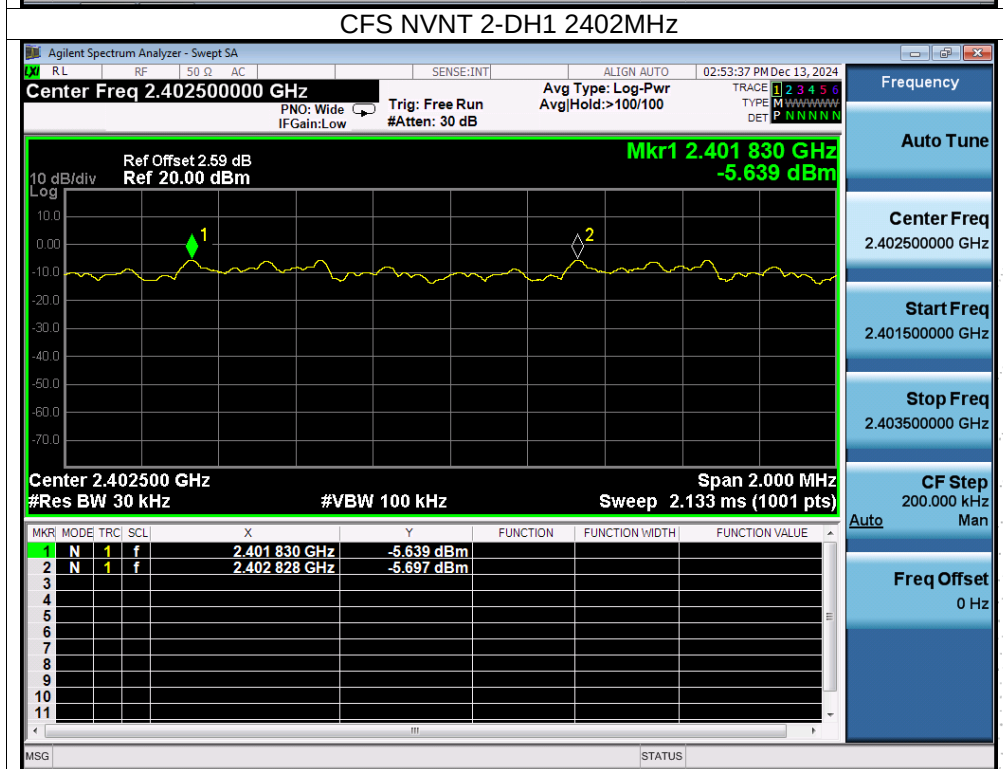
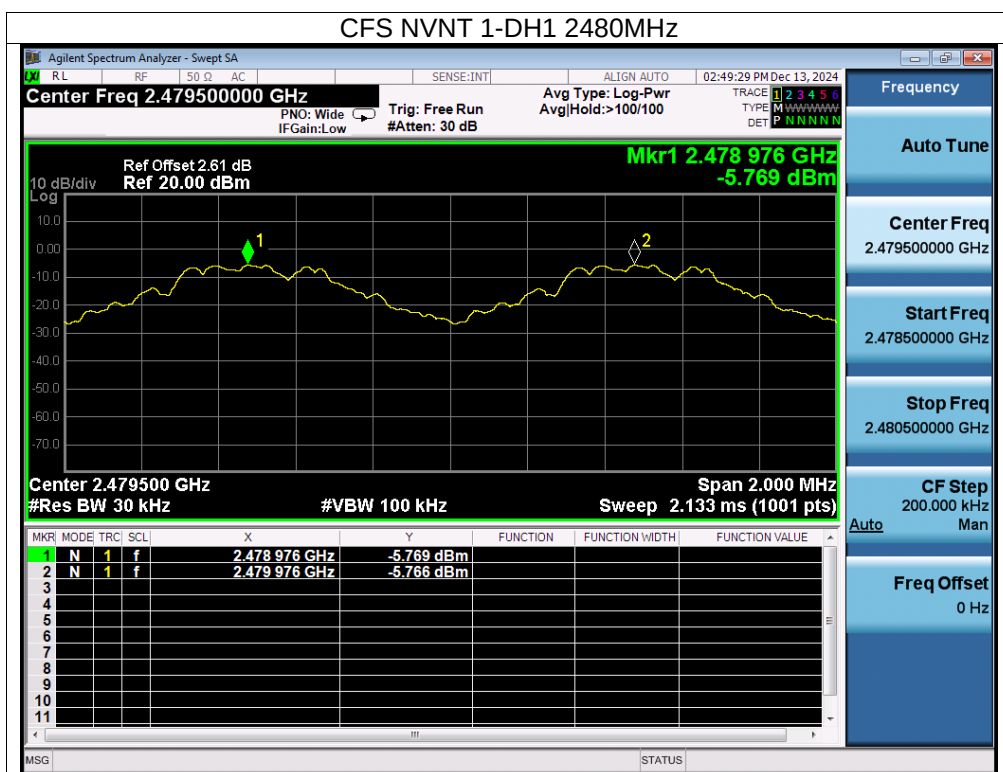
CFS NVNT 1-DH1 2402MHz



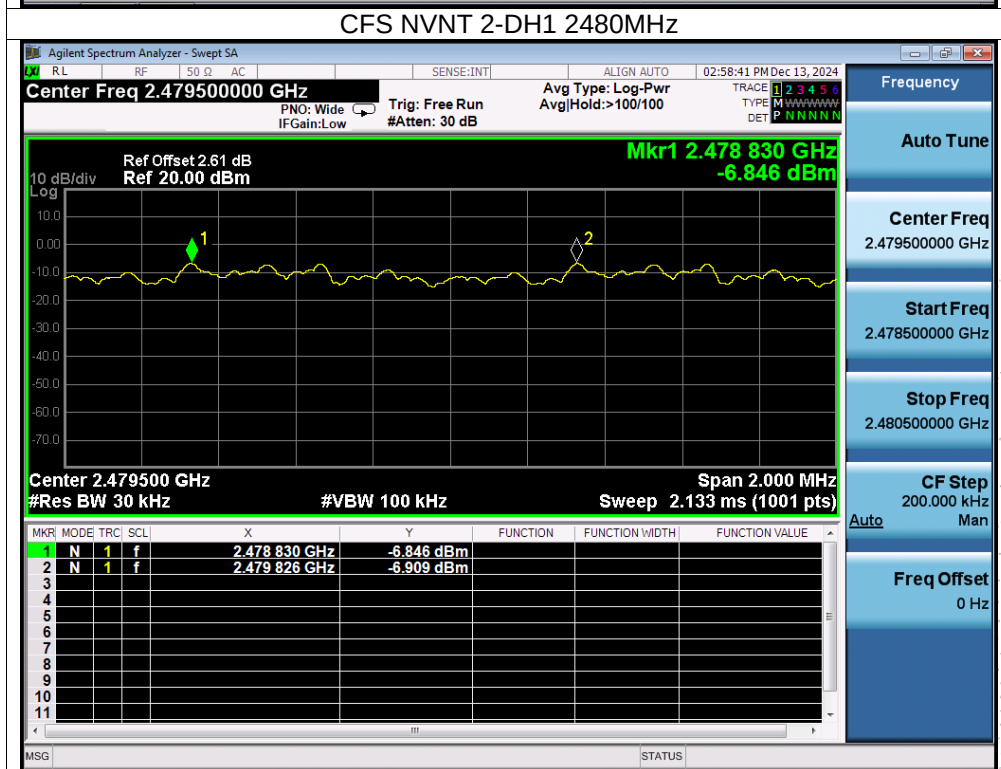
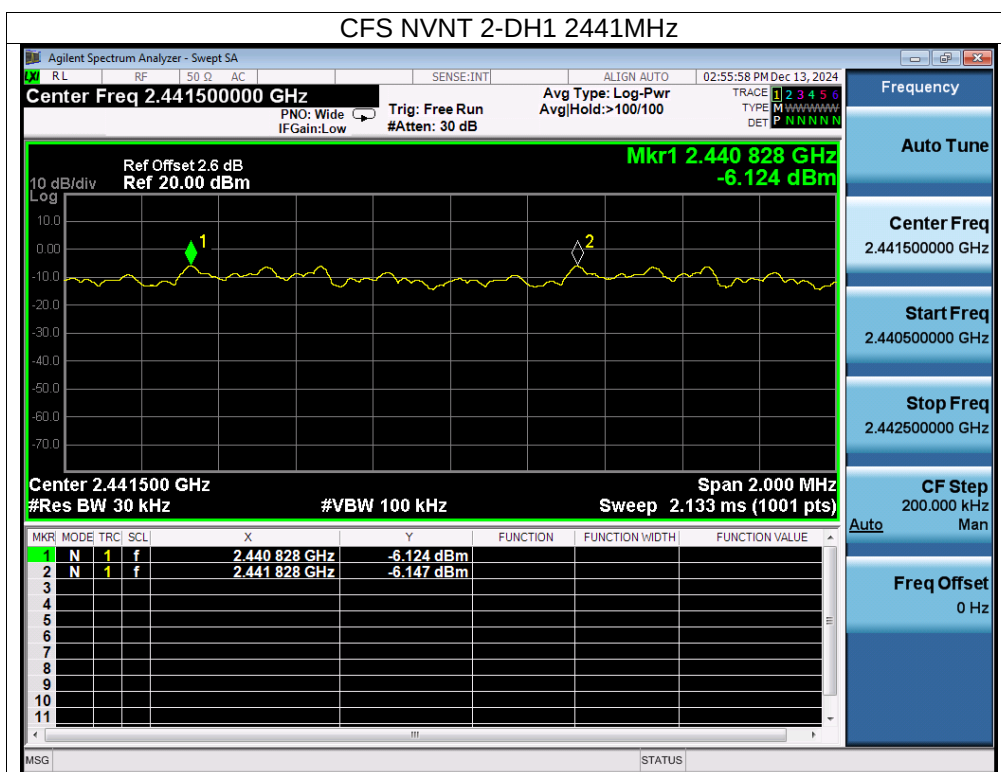
CFS NVNT 1-DH1 2441MHz

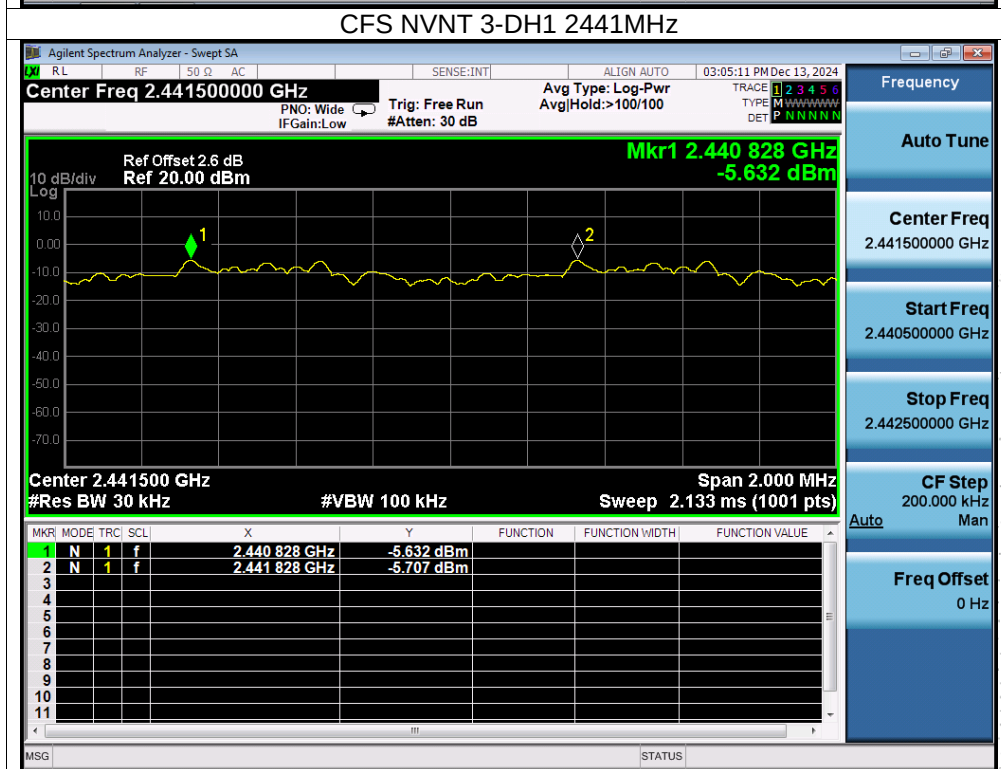
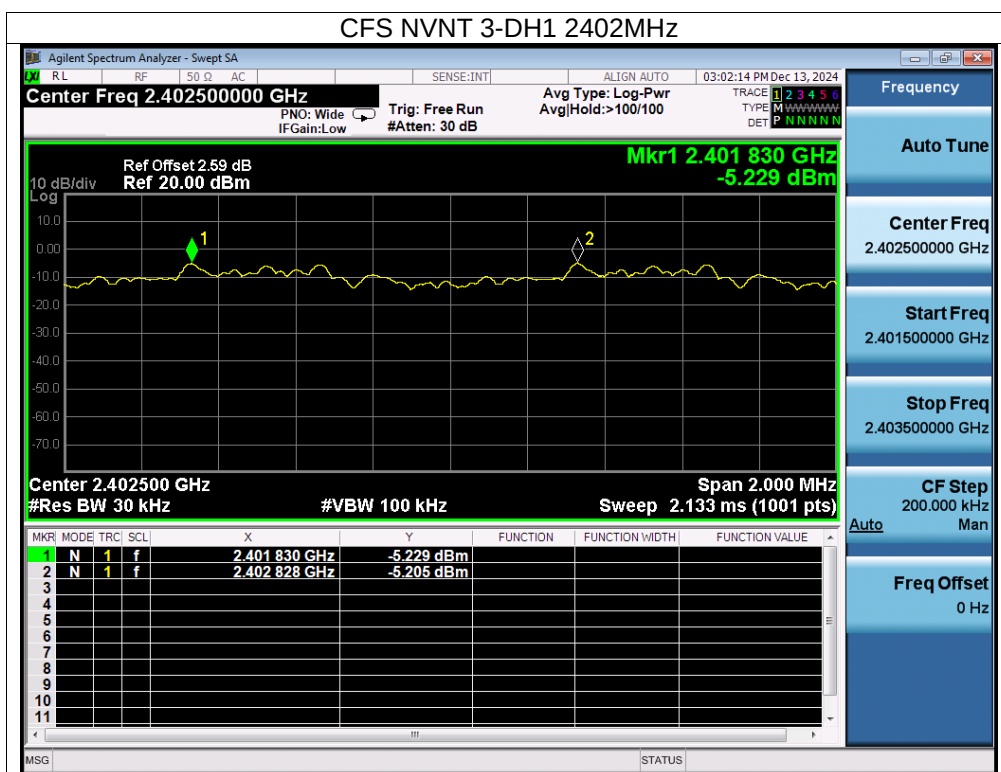


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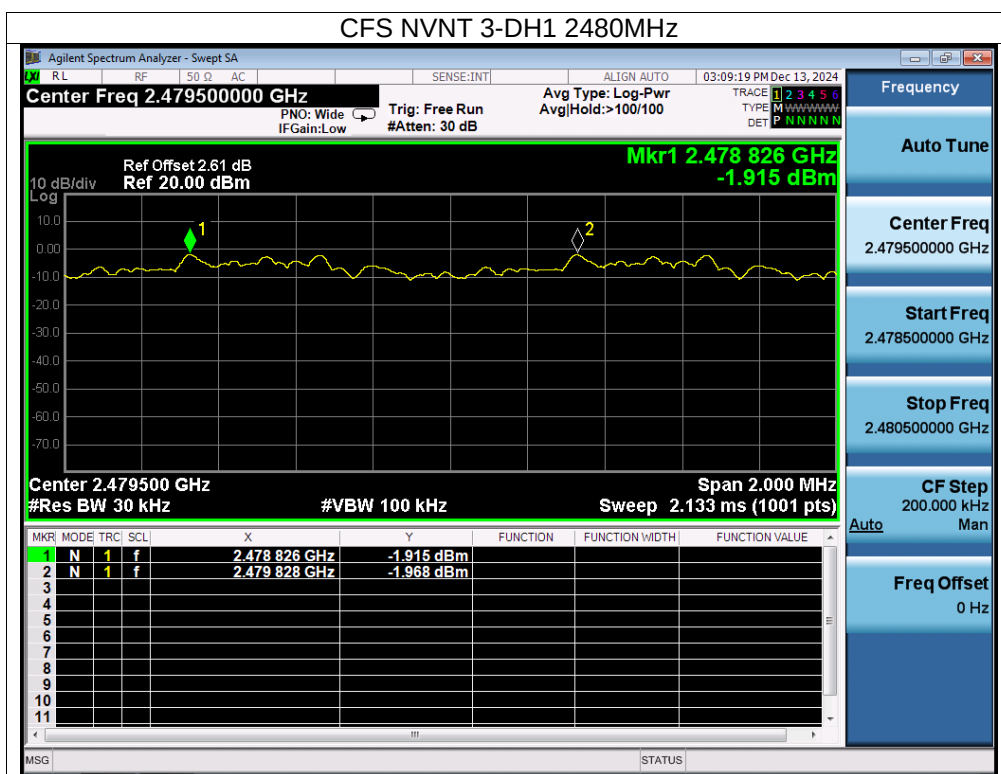


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13. Number Of Hopping Frequency

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

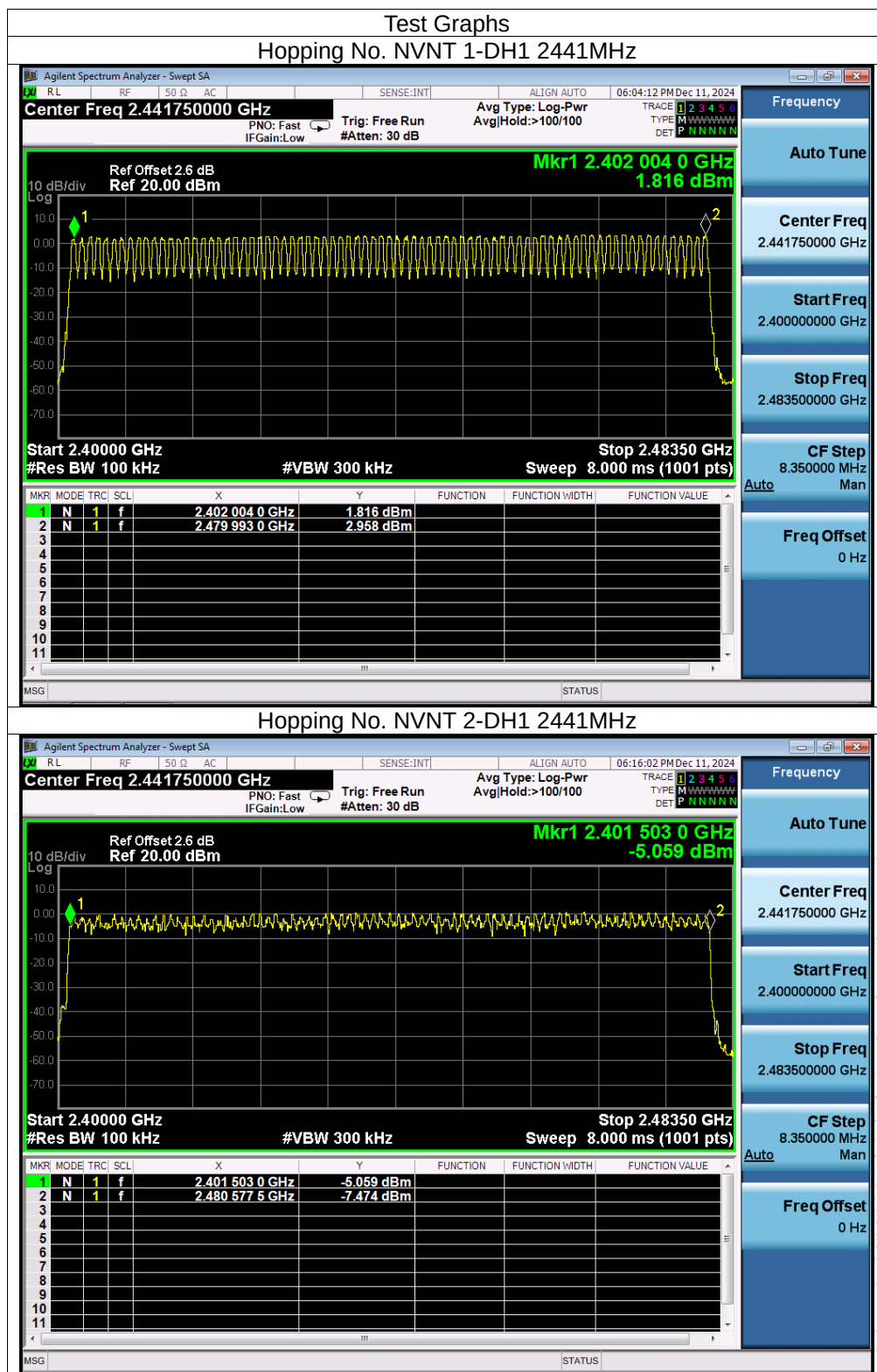
Chip 1

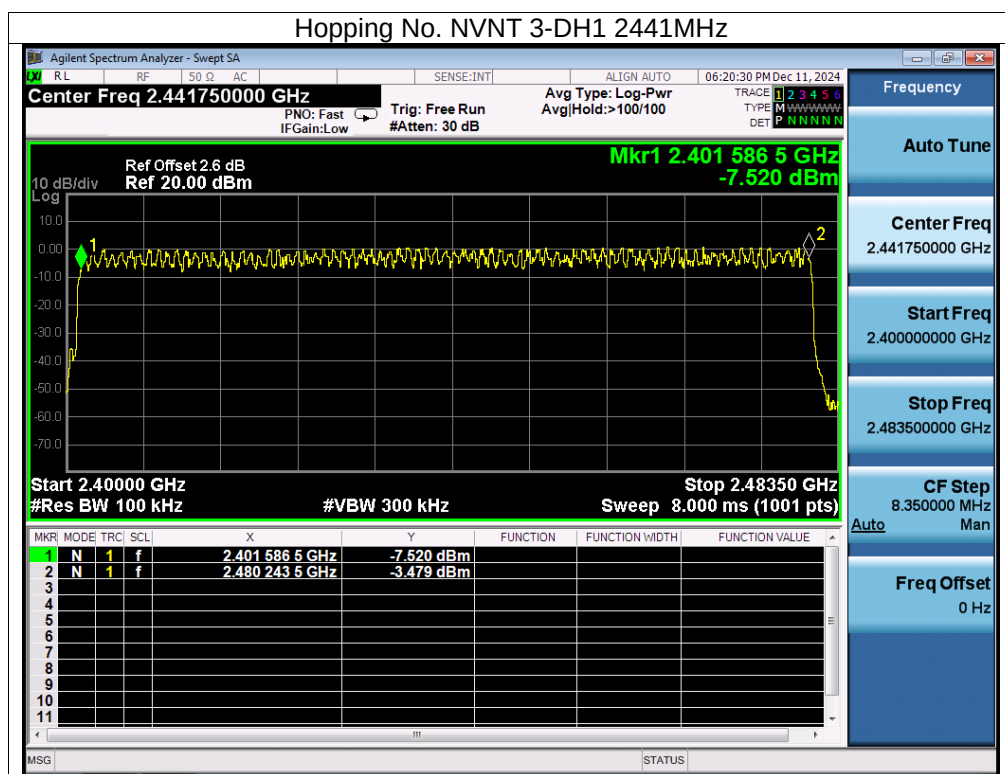
Condition	Mode	Hopping Number	Limit	Verdict
NVNT	1-DH1	79	15	Pass
NVNT	2-DH1	79	15	Pass
NVNT	3-DH1	79	15	Pass

Chip 2

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

Chip 1

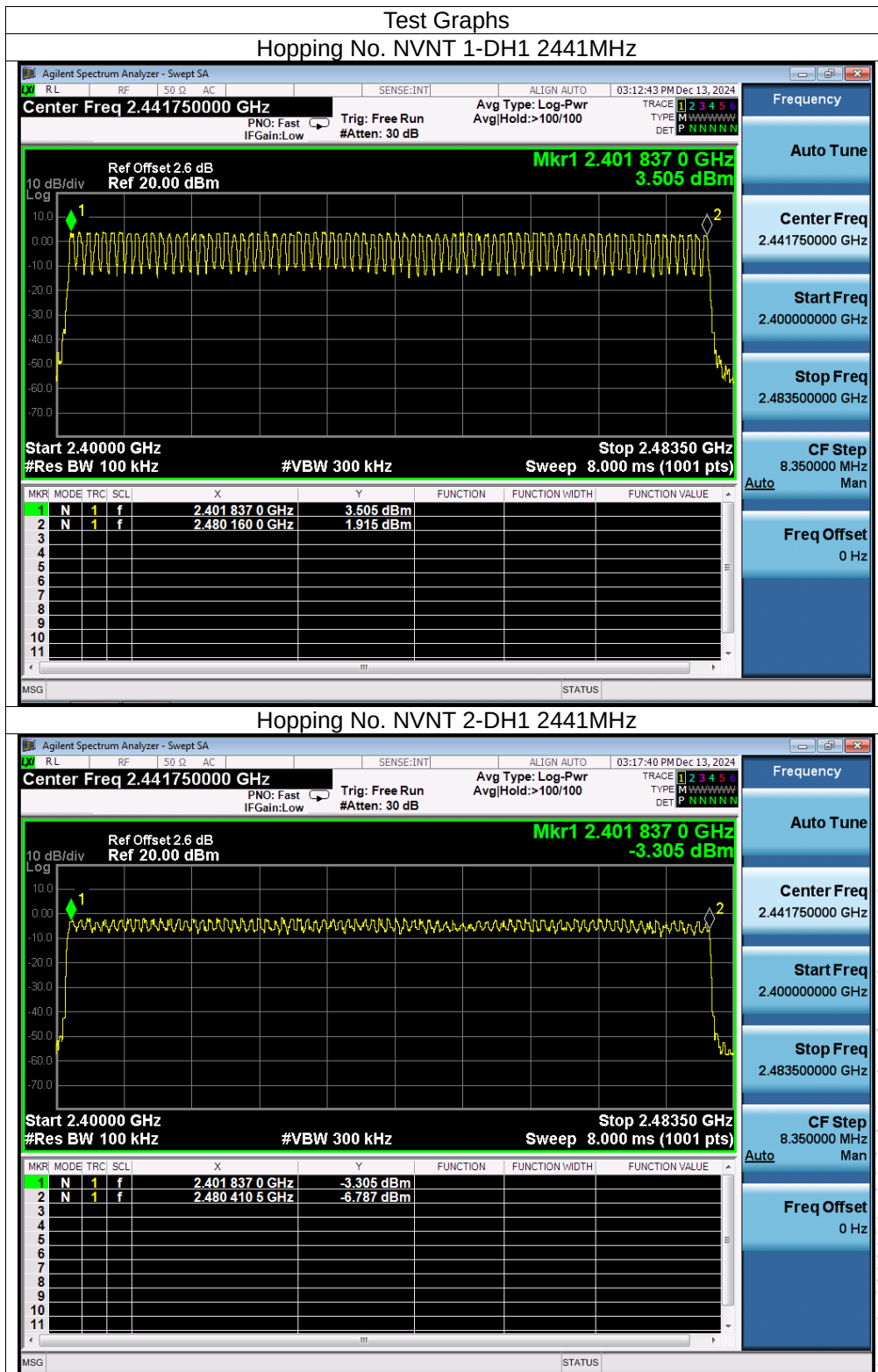


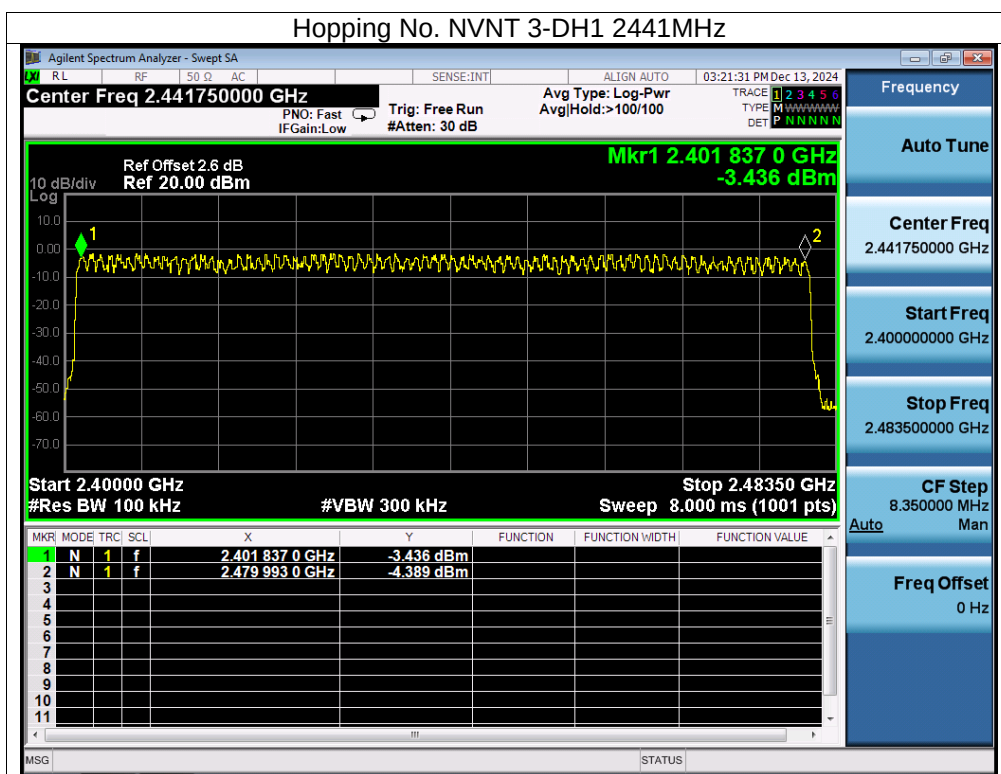


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Chip 2





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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

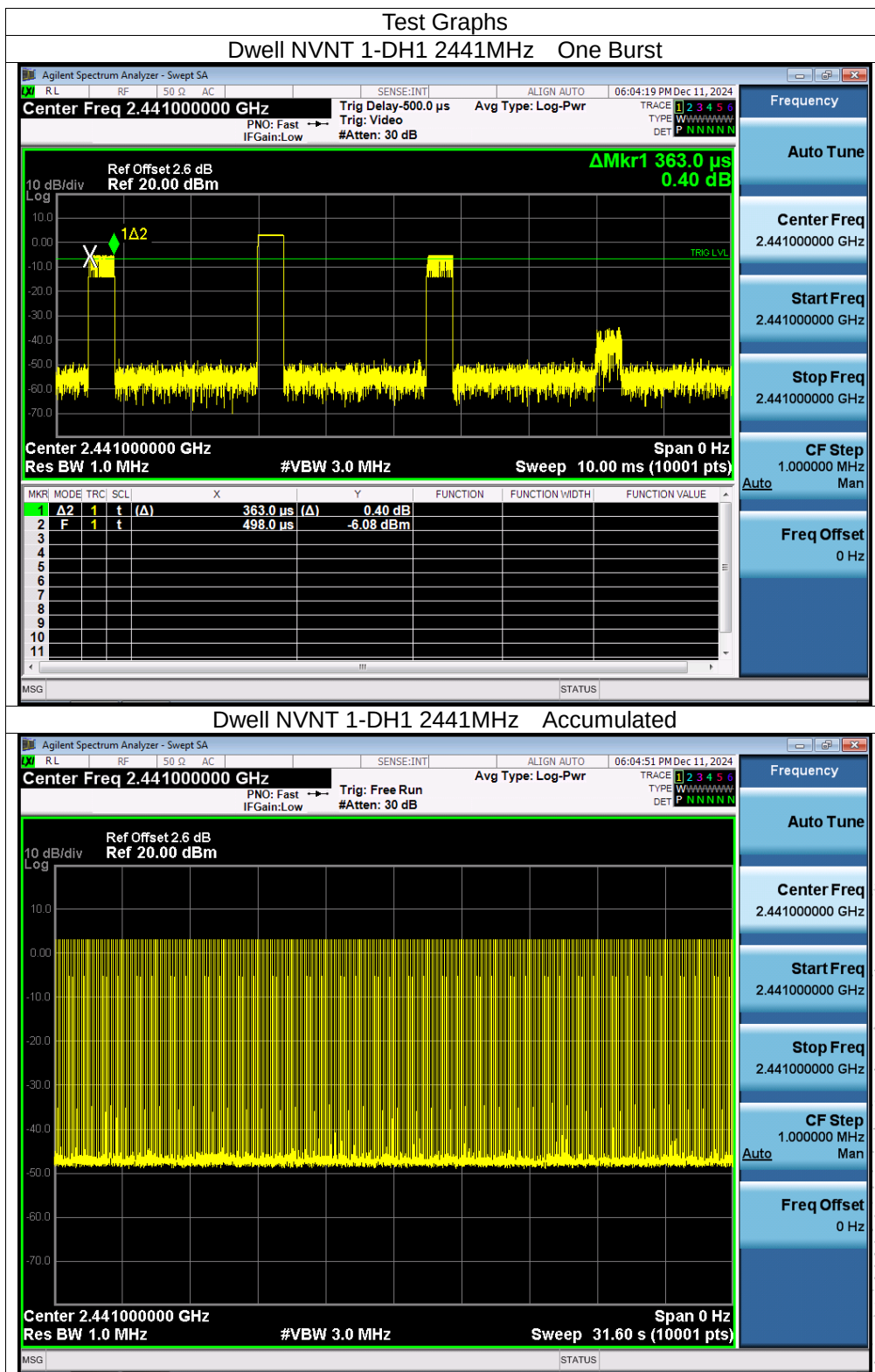
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set spectrum analyzer span = 0. Centred on a hopping channel;
3. Set RBW = 1MHz and VBW = 3MHz. Sweep = as necessary to capture the entire dwell time per hopping channel. Set the EUT for DH5, 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).

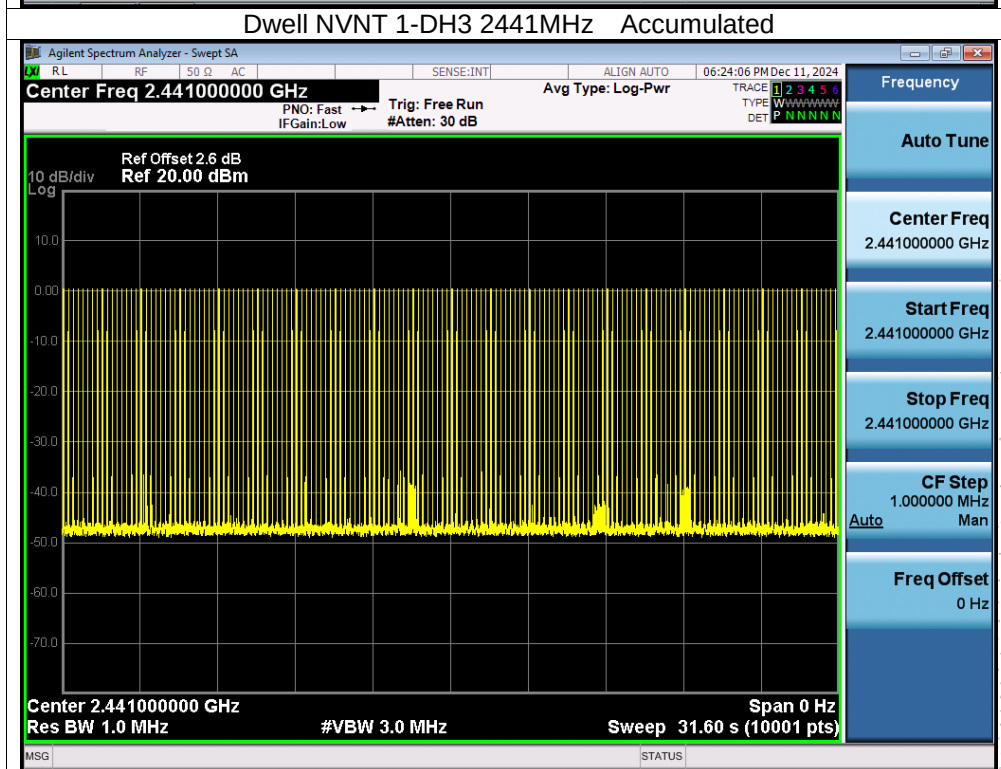
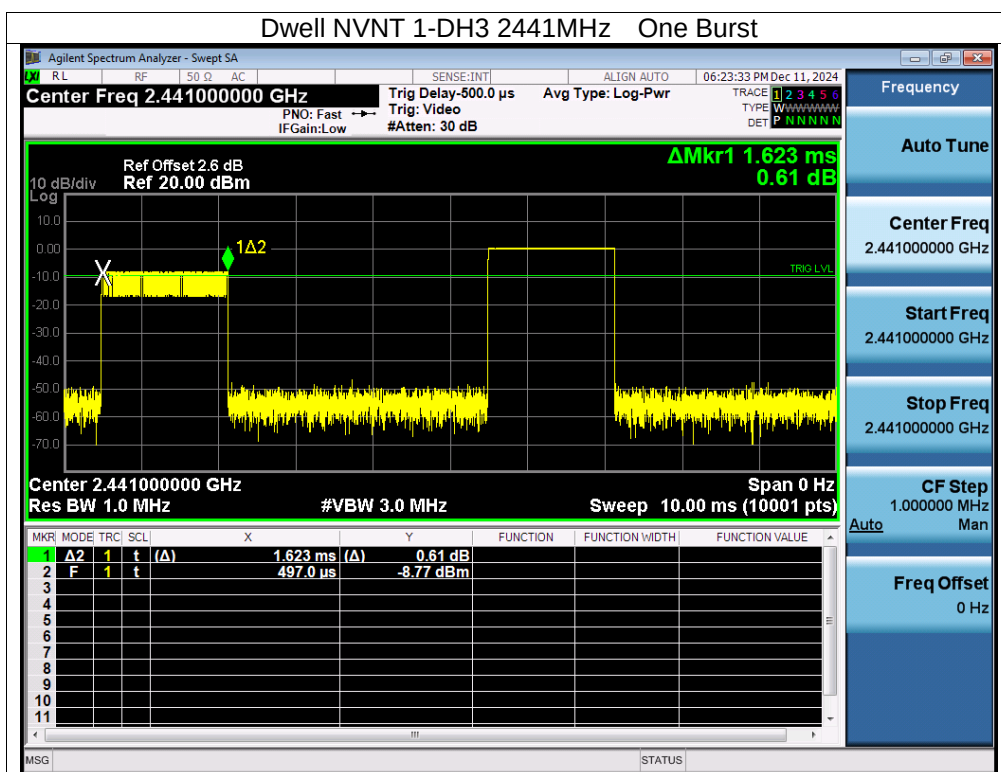
14.4 Test Result

Chip 1

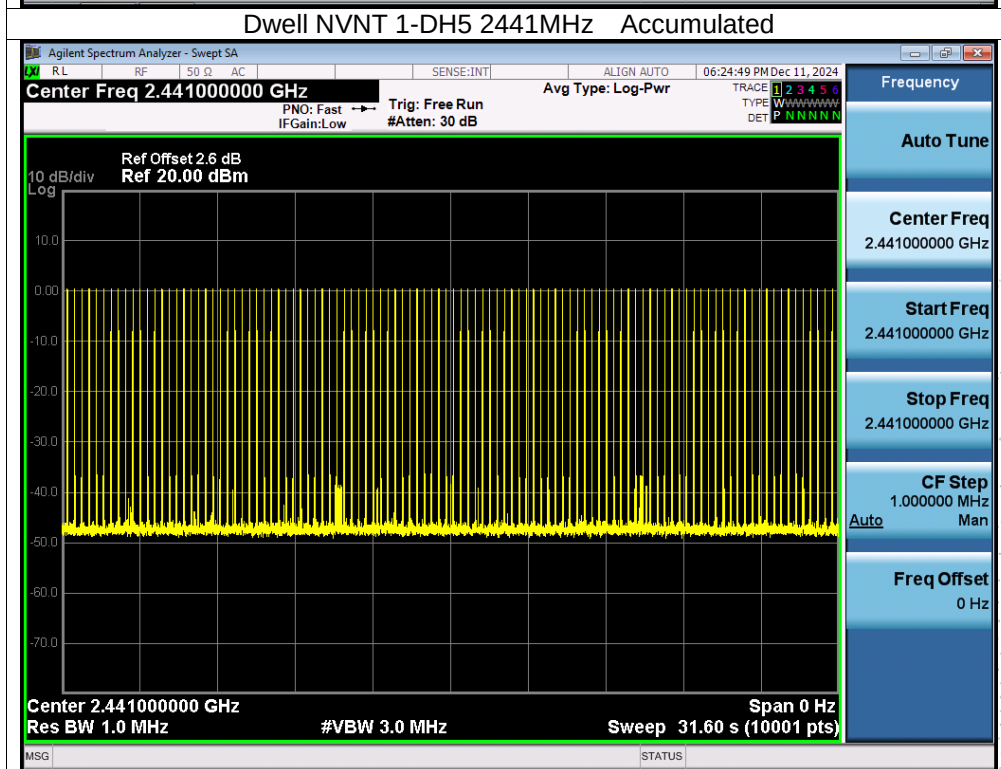
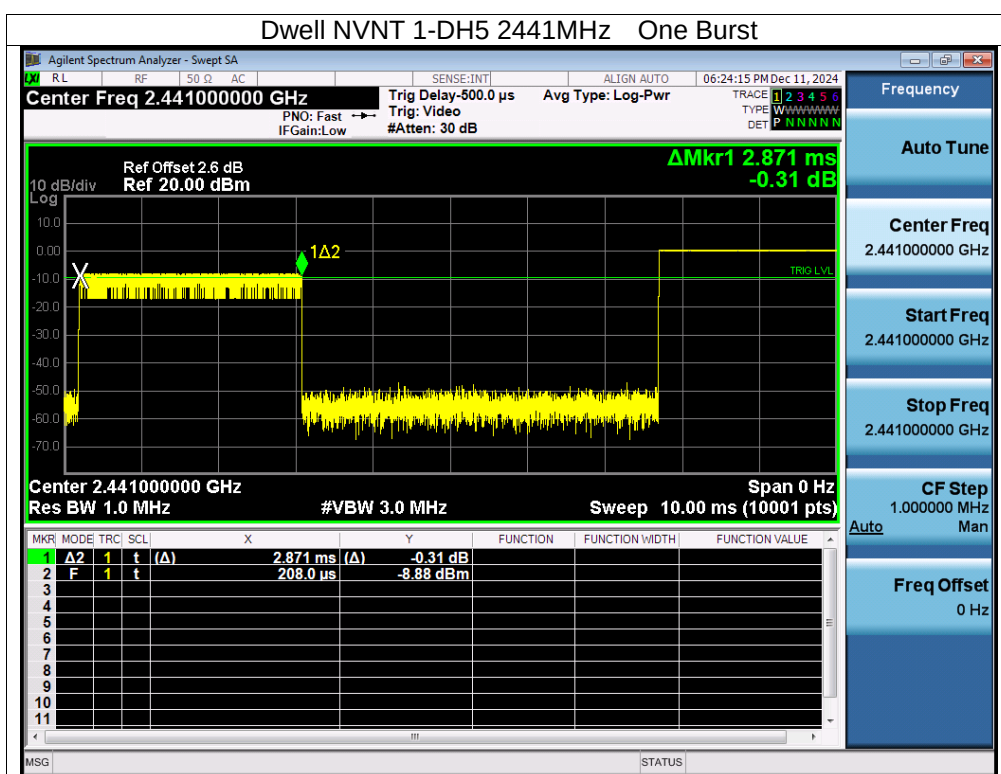
Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
1-DH1	2441	0.363	115.797	319	31600	400	Pass
1-DH3	2441	1.623	258.057	159	31600	400	Pass
1-DH5	2441	2.871	304.326	106	31600	400	Pass
2-DH1	2441	0.393	125.367	319	31600	400	Pass
2-DH3	2441	1.494	237.546	159	31600	400	Pass
2-DH5	2441	2.742	293.394	107	31600	400	Pass
3-DH1	2441	0.388	123.772	319	31600	400	Pass
3-DH3	2441	1.492	237.228	159	31600	400	Pass
3-DH5	2441	2.741	293.287	107	31600	400	Pass

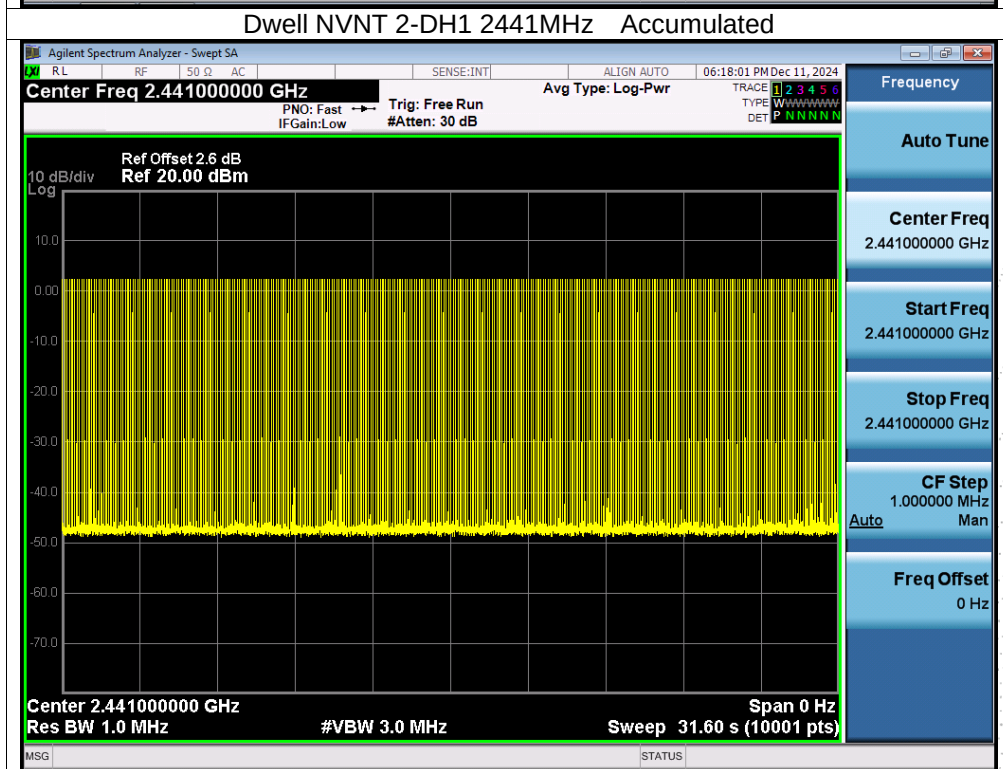
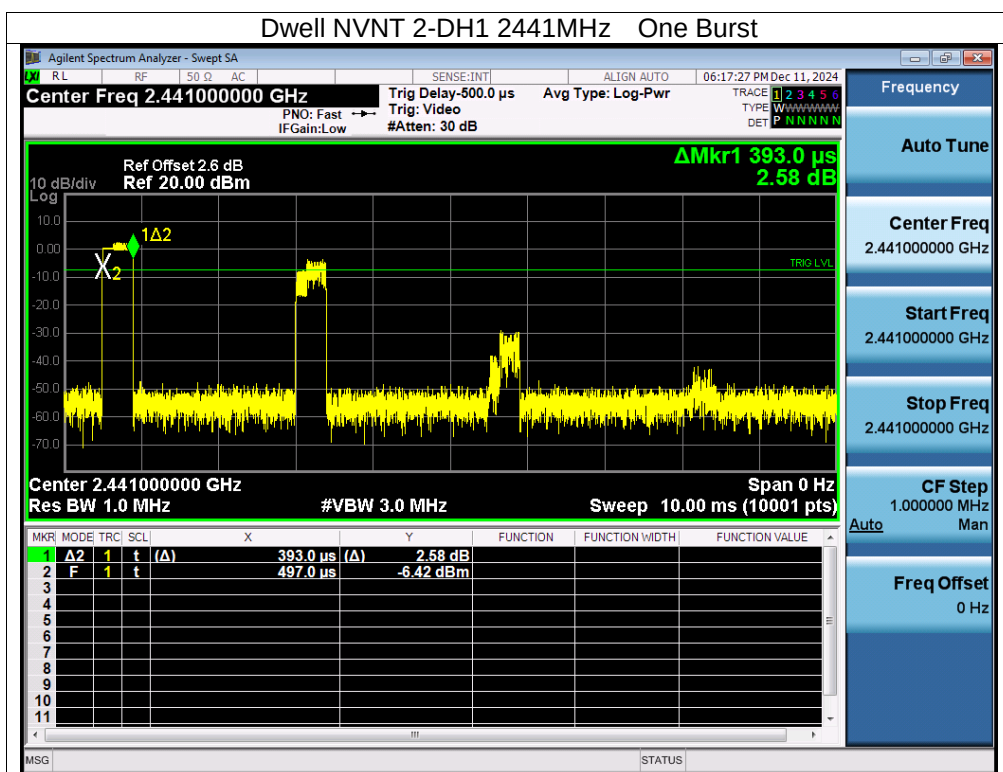
Note: Total Dwell Time (ms) = Pulse Time (ms)*Burst Count

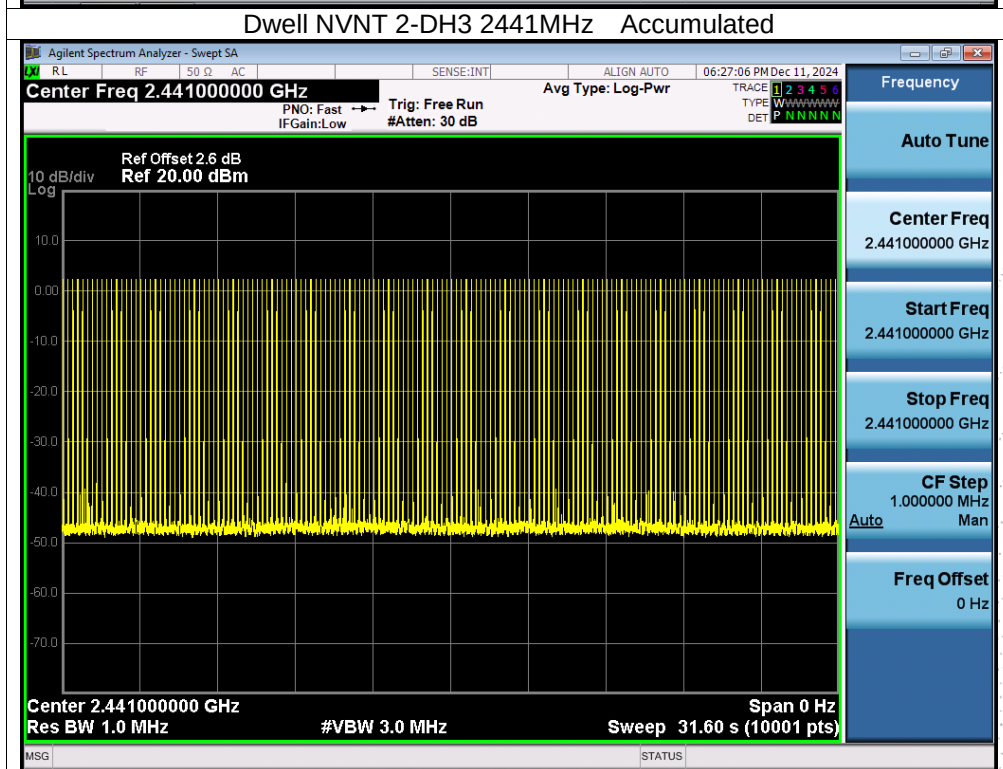
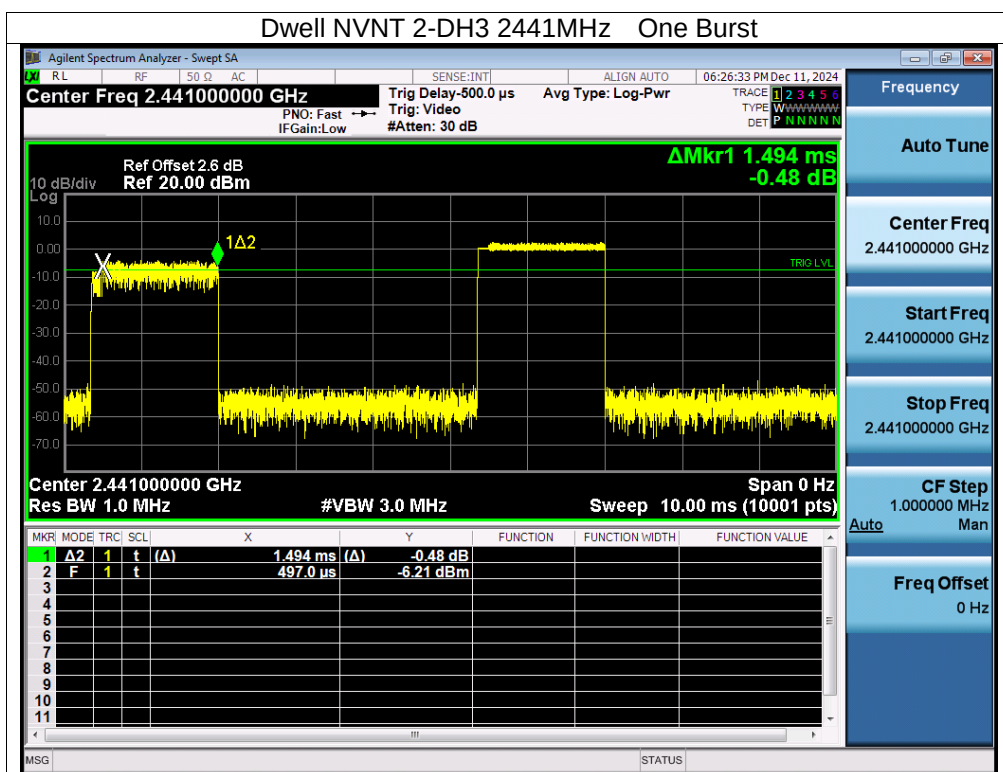


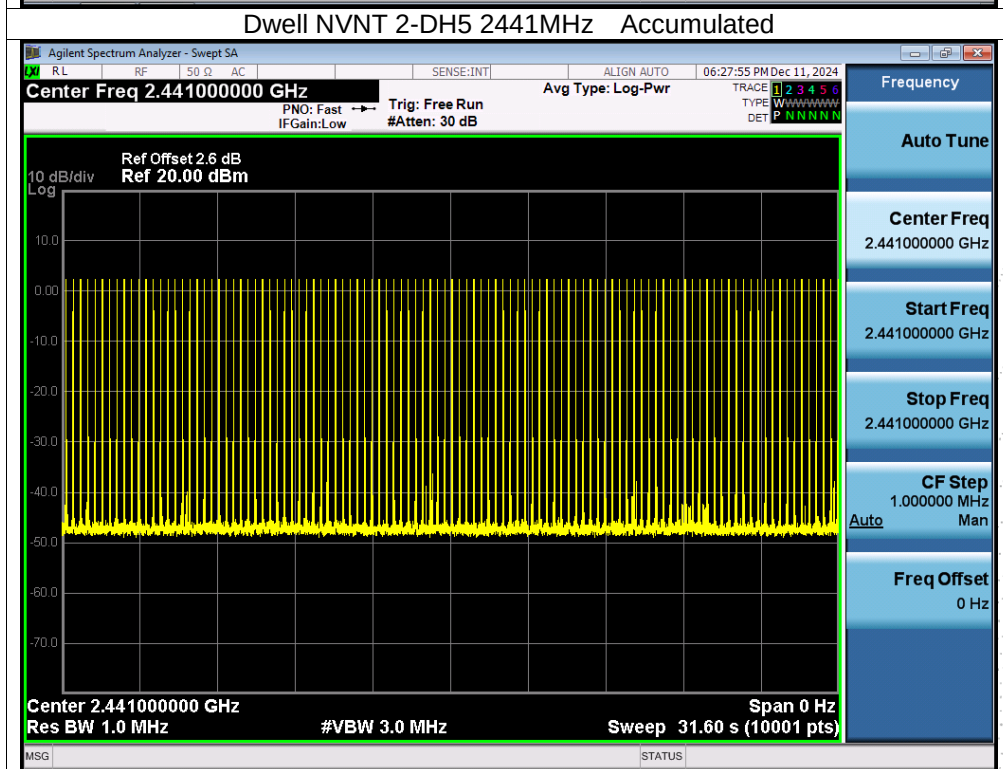
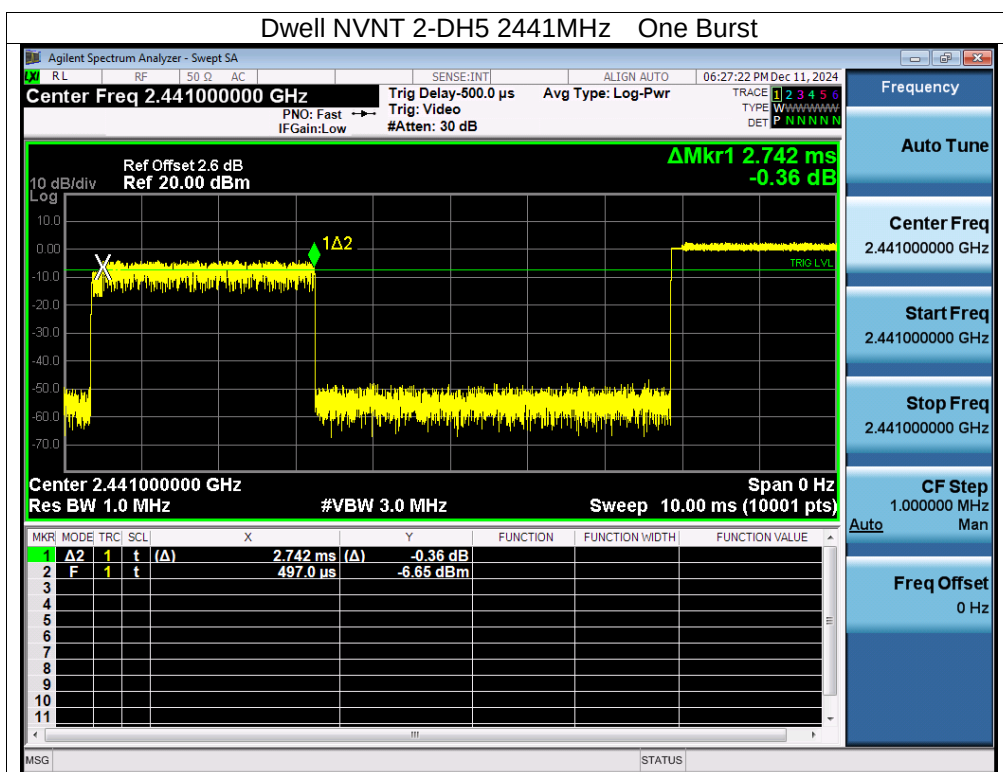


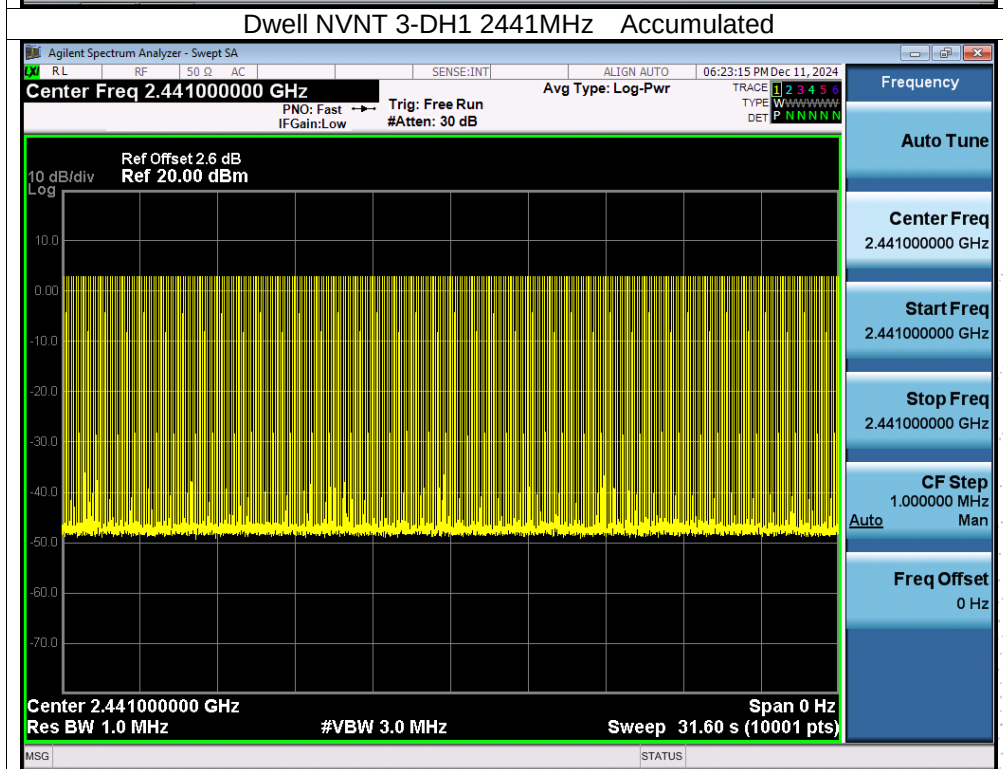
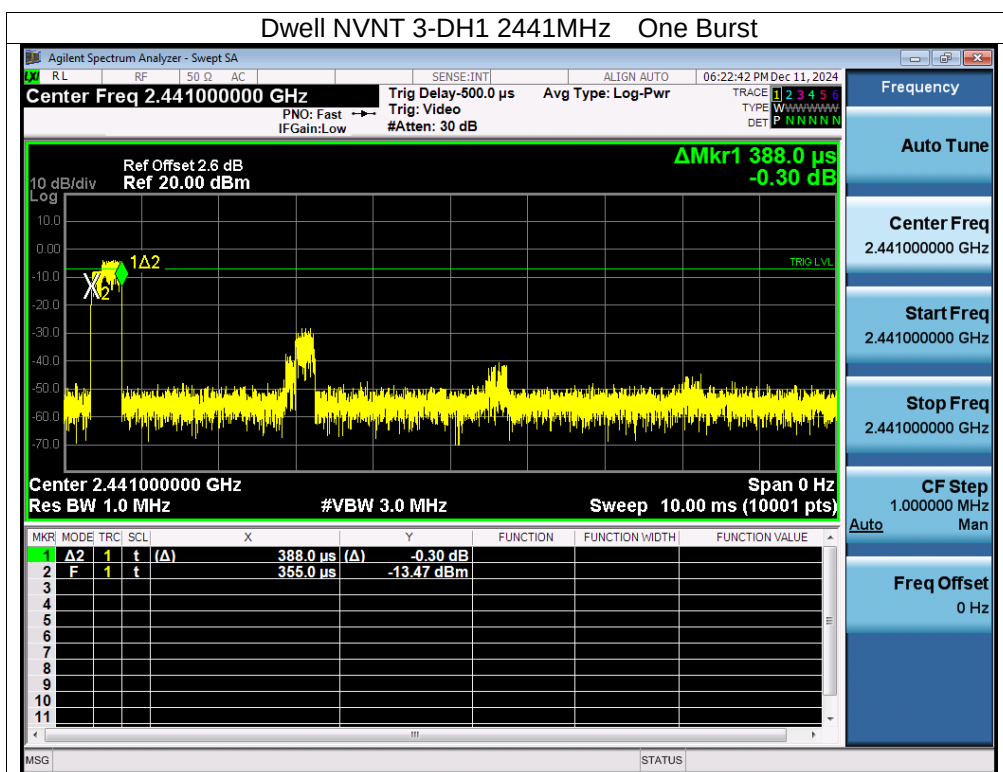
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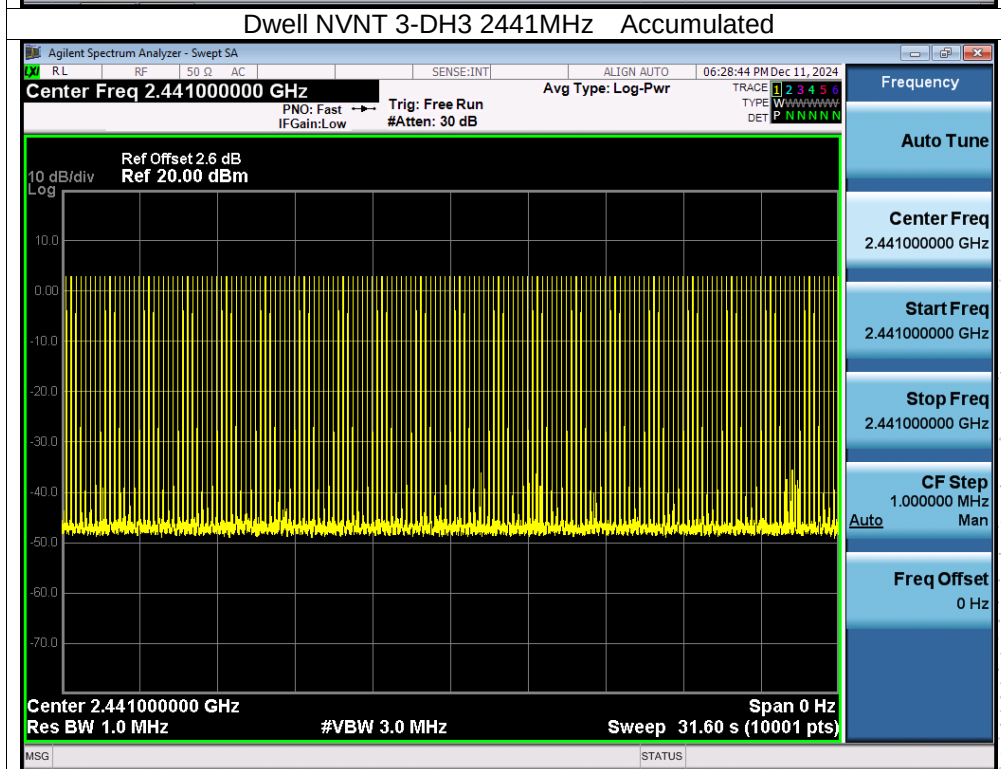
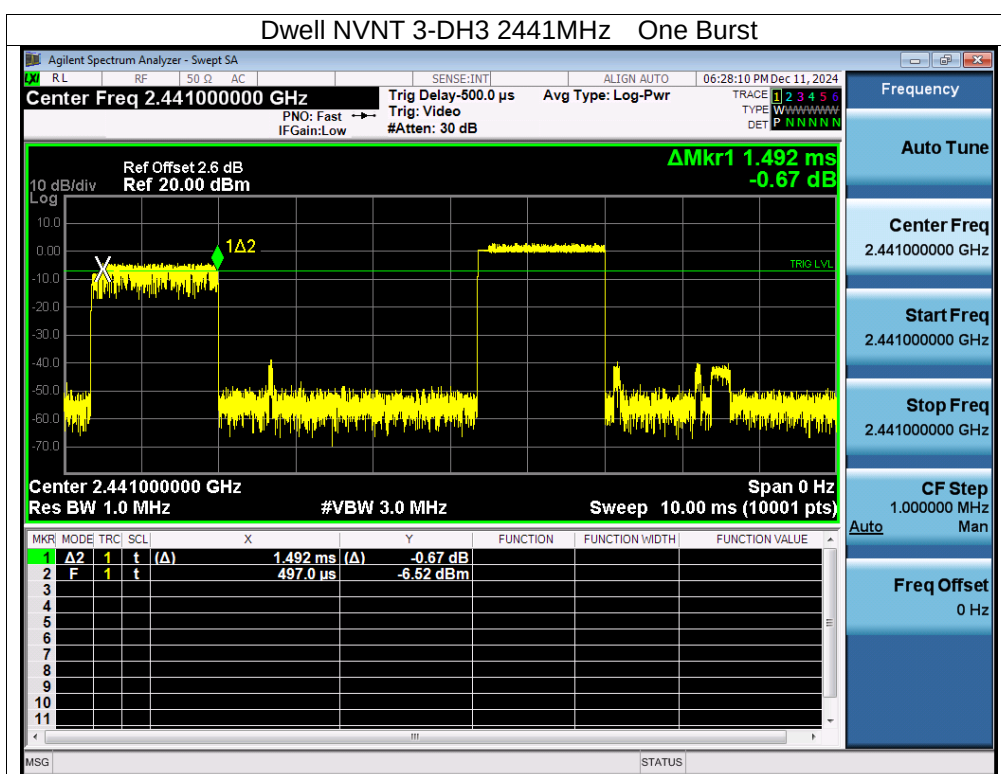


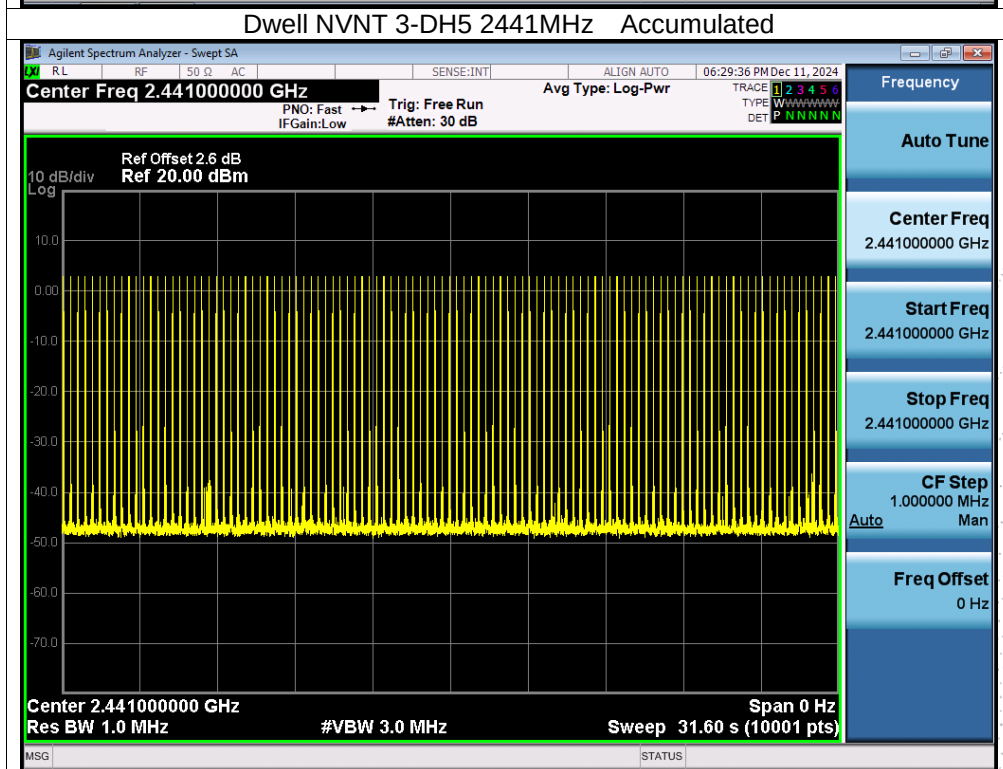
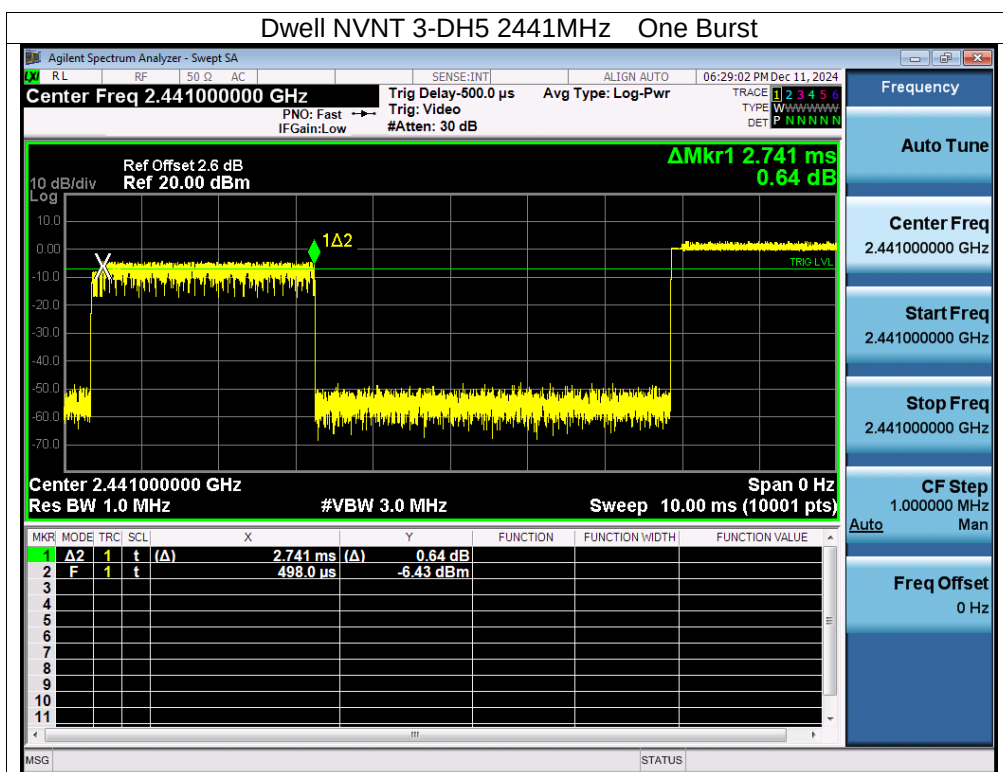










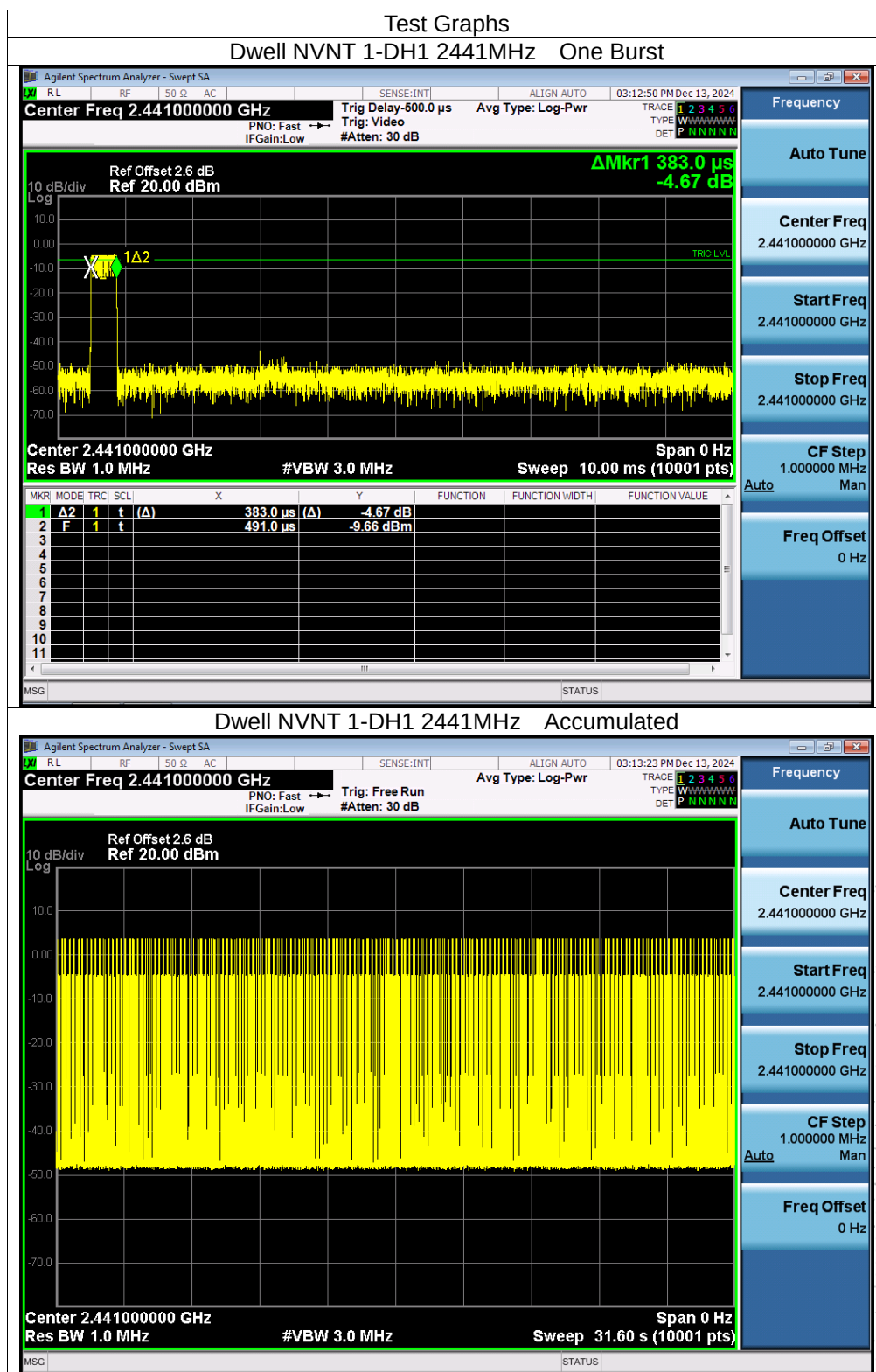


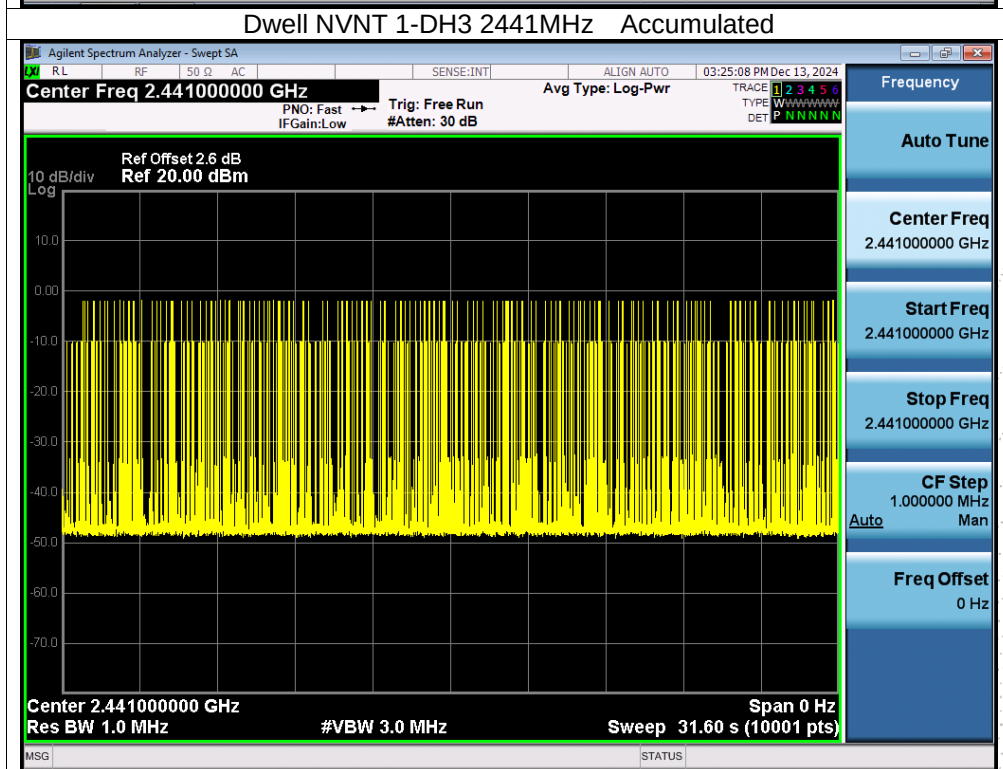
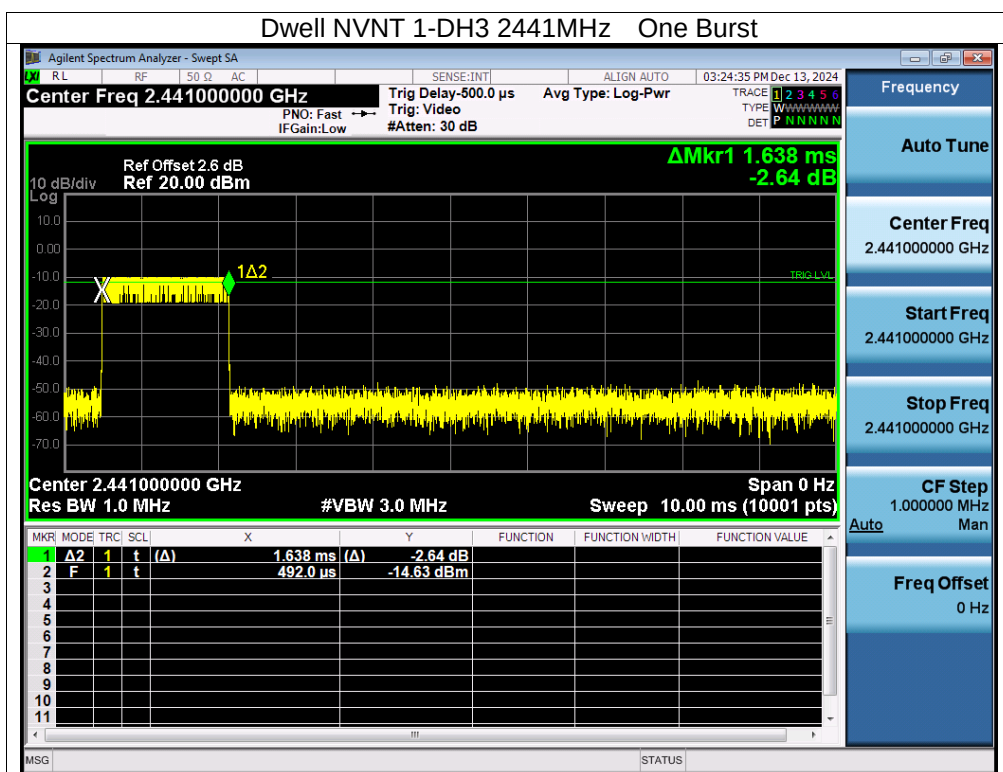
Chip 2

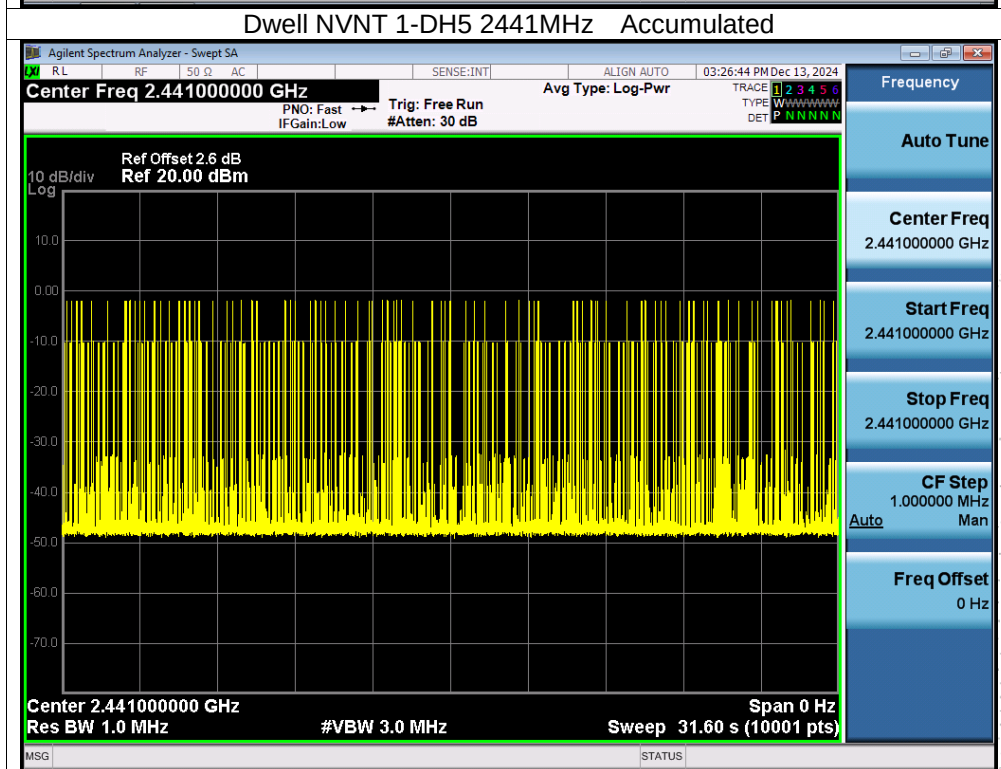
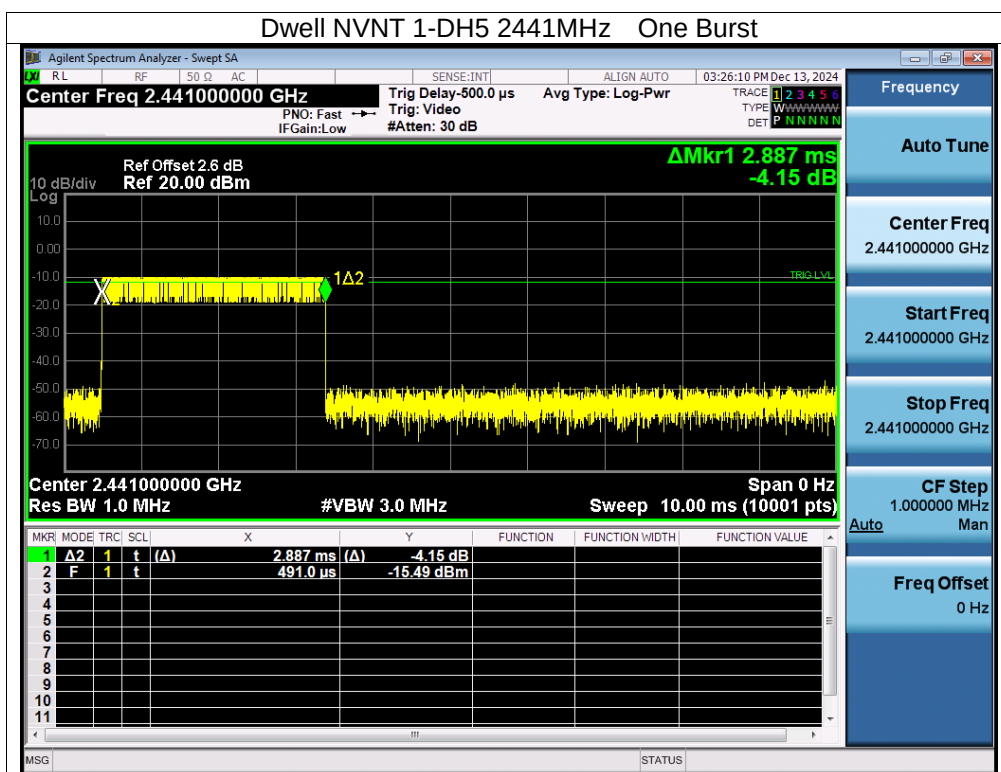
Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
1-DH1	2441	0.383	122.56	320	31600	400	Pass
1-DH3	2441	1.638	268.632	164	31600	400	Pass
1-DH5	2441	2.887	303.135	105	31600	400	Pass
2-DH1	2441	0.385	122.815	319	31600	400	Pass
2-DH3	2441	1.632	264.384	162	31600	400	Pass
2-DH5	2441	2.879	339.722	118	31600	400	Pass
3-DH1	2441	0.384	122.112	318	31600	400	Pass
3-DH3	2441	1.636	266.668	163	31600	400	Pass
3-DH5	2441	2.886	303.03	105	31600	400	Pass

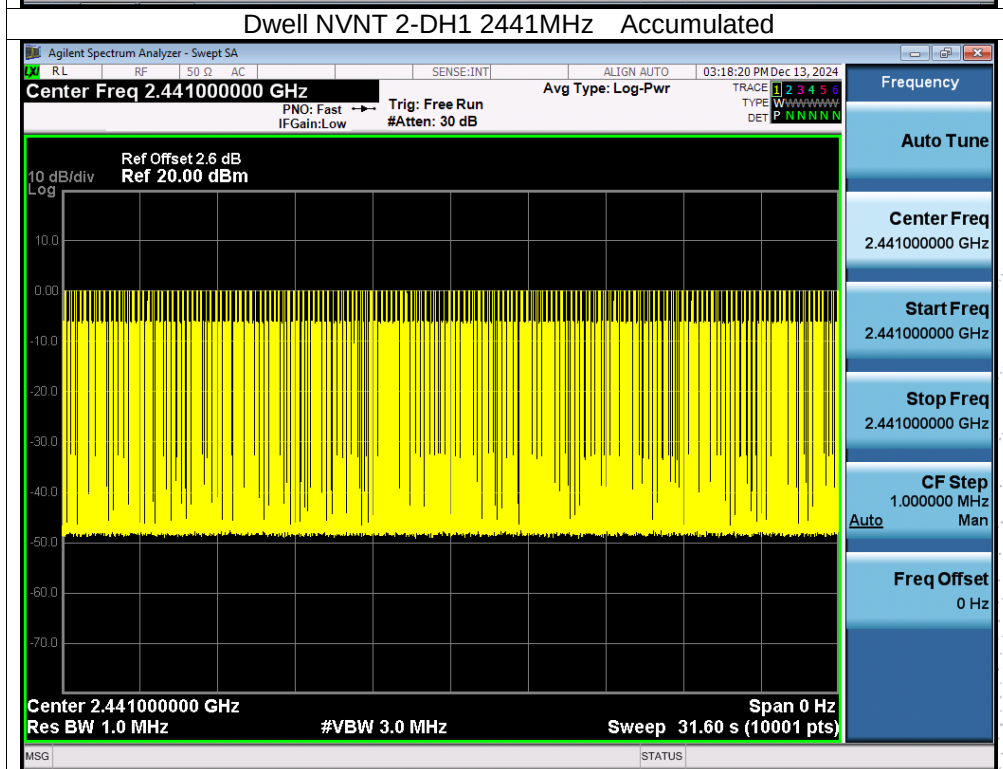
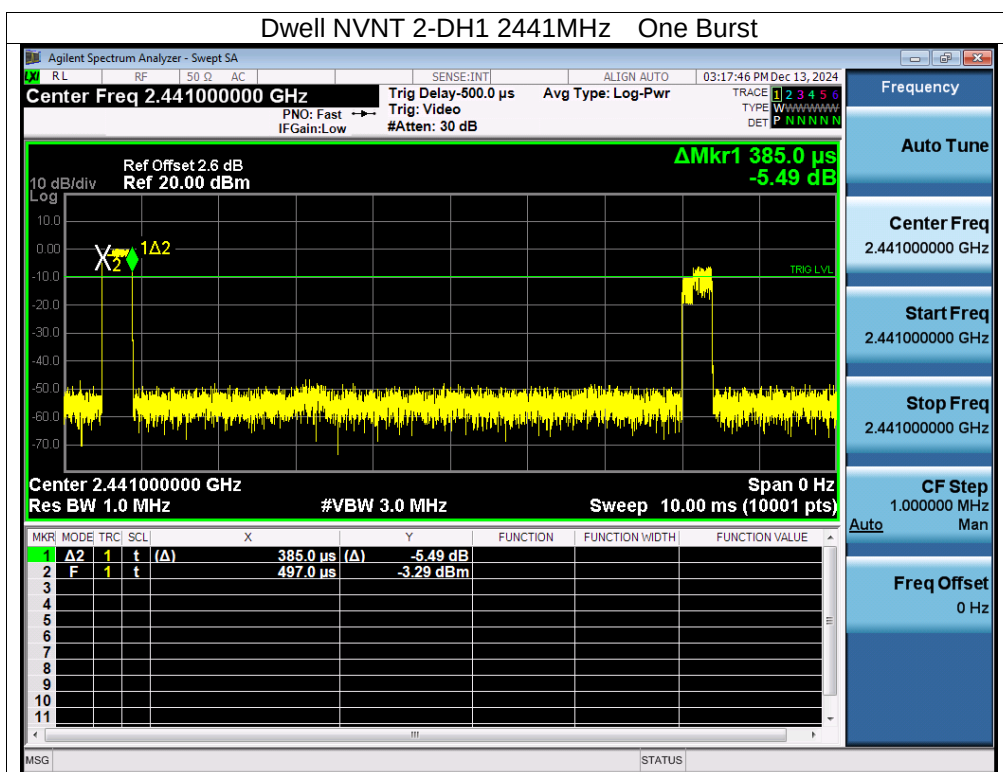
Note: Total Dwell Time (ms) = Pulse Time (ms)*Burst Count











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