

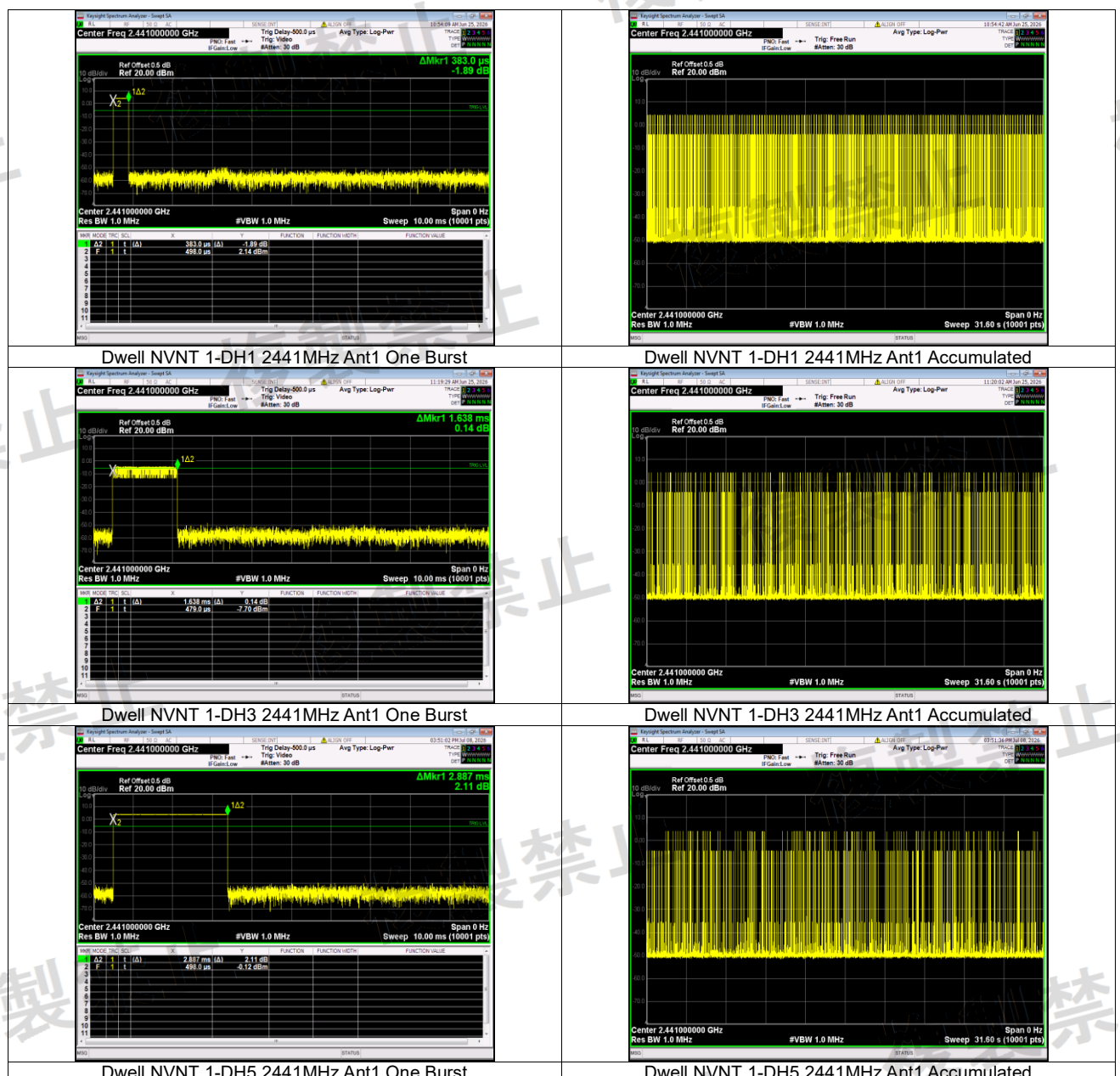
Appendix A: Test Results

Content

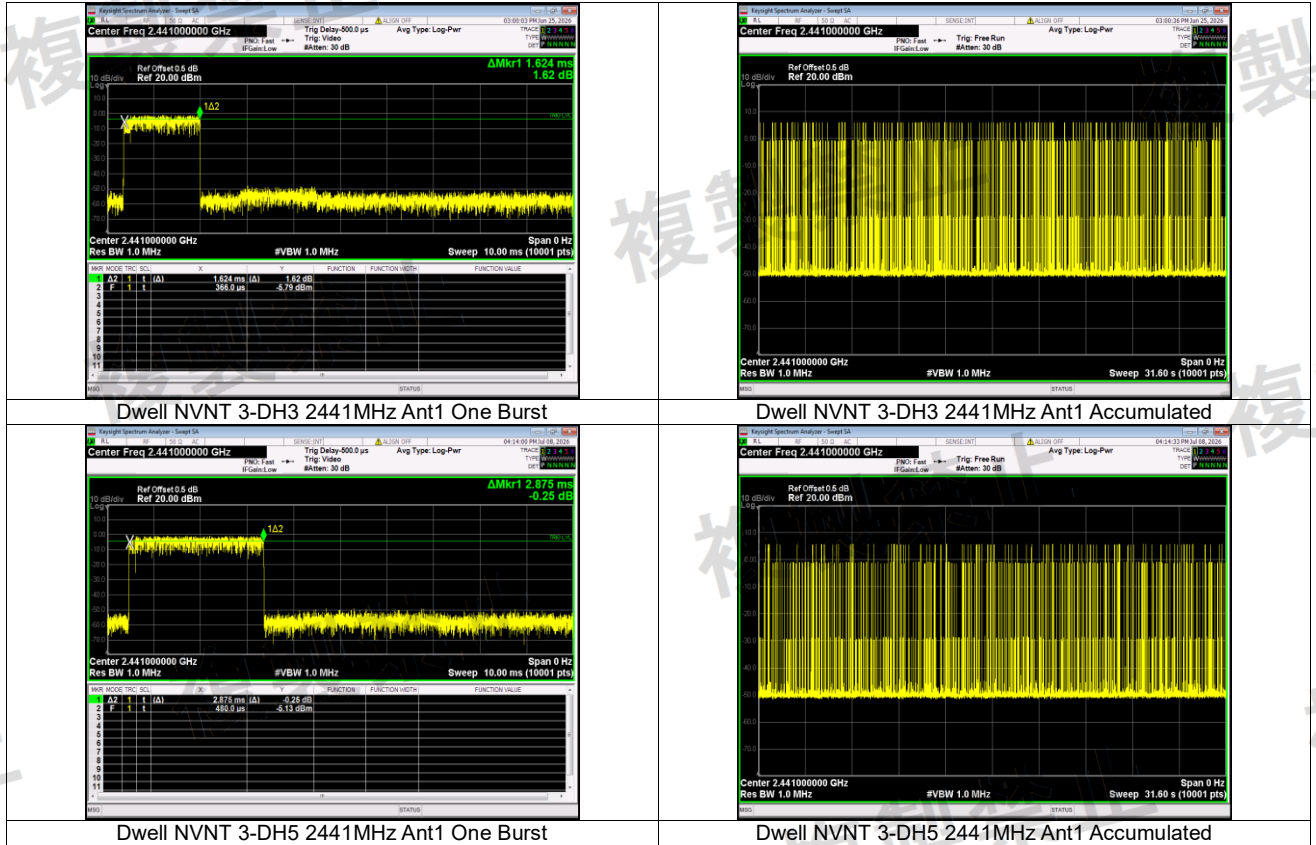
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Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.383	191.883	501	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.638	257.166	157	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.887	311.796	108	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.391	195.891	501	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.627	274.963	169	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.873	275.808	96	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.391	195.891	501	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.624	266.336	164	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.875	299	104	31600	400	Pass

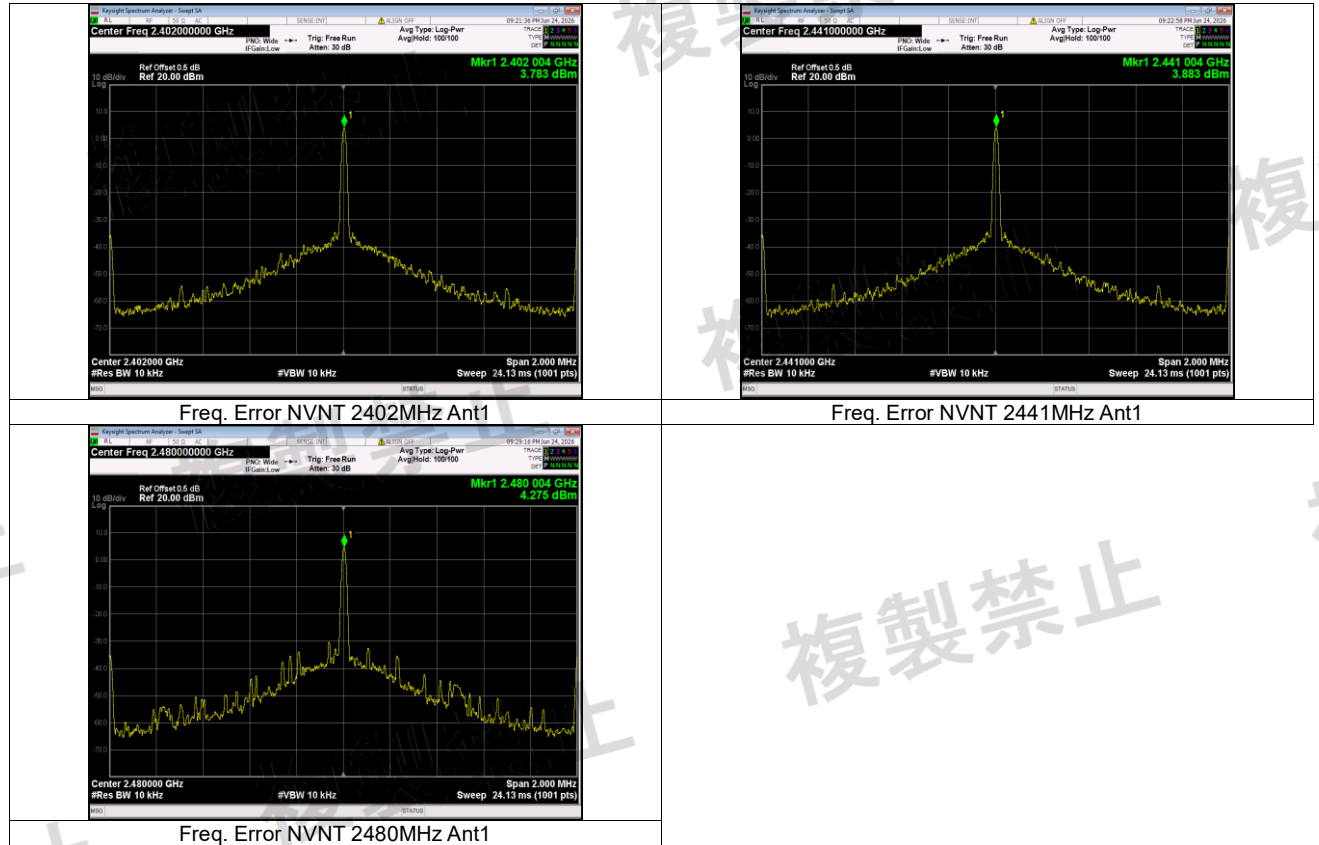






Frequency Error

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	N/A	2402	Ant1	2402.004	4000	1.67	50	Pass
NVNT	N/A	2441	Ant1	2441.004	4000	1.64	50	Pass
NVNT	N/A	2480	Ant1	2480.004	4000	1.61	50	Pass



Antenna Power

Condi tion	Mod e	Frequen cy (MHz)	Anten na	Pow er (dBm)	Pow er (mW)	Sprea d BW (MHz)	Power (mW/MHz)	Limit (mW/MHz)	Declare d Power (mW/MHz)	Toleran ce (%)	Upp er Limit (%)	Verdi ct
NVNT	1-DH5	hopping	Ant1	4.17	2.612	71.219	0.037	3	0.5	-92.6	20	Pass
NVNT	1-DH5	hopping	Ant1	4.28	2.679	71.219	0.038	3	0.5	-92.4	20	Pass
NVNT	1-DH5	hopping	Ant1	4.51	2.825	71.219	0.04	3	0.5	-92	20	Pass
NVNT	2-DH5	hopping	Ant1	4.19	2.624	71.347	0.037	3	0.5	-92.6	20	Pass
NVNT	2-DH5	hopping	Ant1	4.25	2.661	71.347	0.037	3	0.5	-92.6	20	Pass
NVNT	2-DH5	hopping	Ant1	4.55	2.851	71.347	0.04	3	0.5	-92	20	Pass
NVNT	3-DH5	hopping	Ant1	4.24	2.655	71.469	0.037	3	0.5	-92.6	20	Pass
NVNT	3-DH5	hopping	Ant1	4.3	2.692	71.469	0.038	3	0.5	-92.4	20	Pass
NVNT	3-DH5	hopping	Ant1	4.57	2.864	71.469	0.04	3	0.5	-92	20	Pass

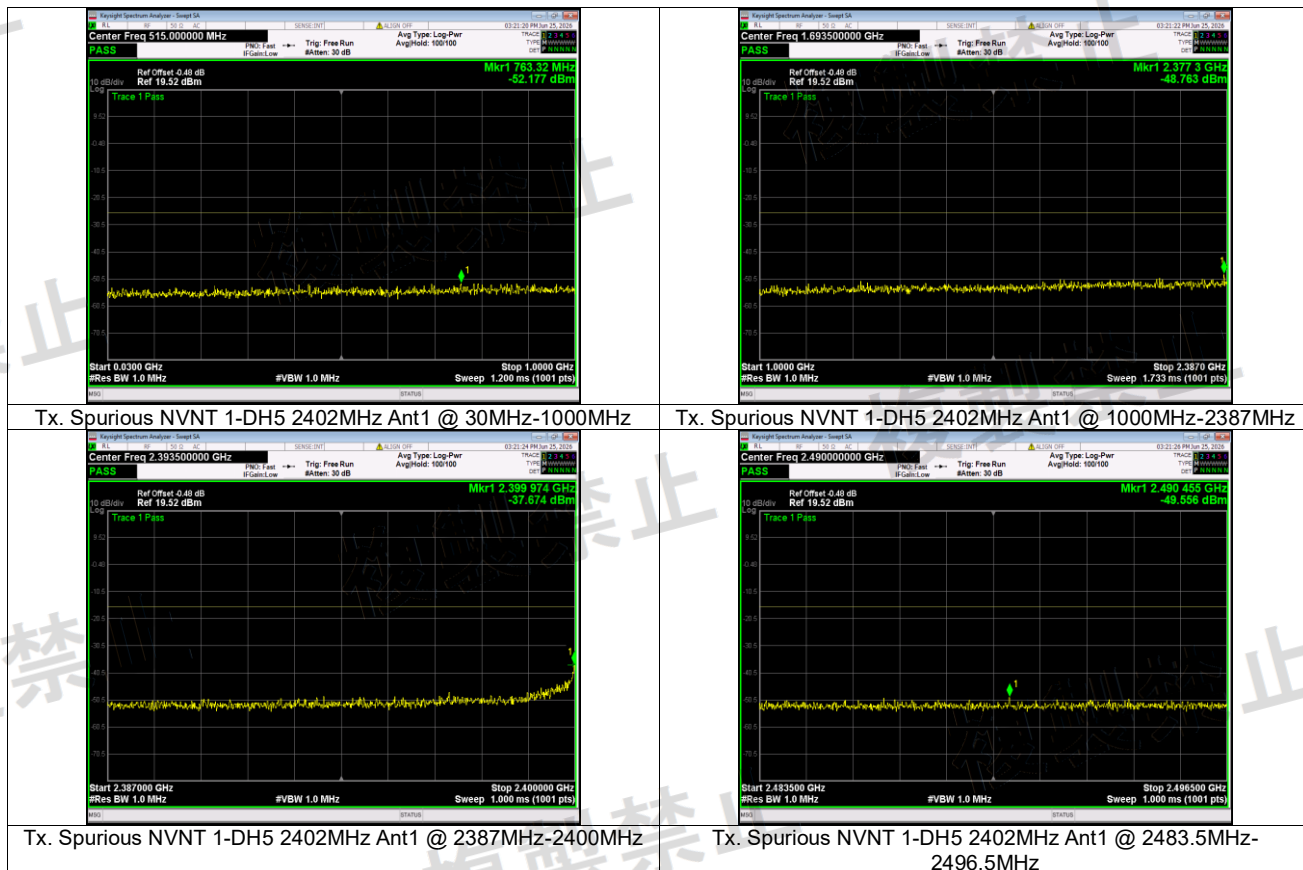
EIRP Power

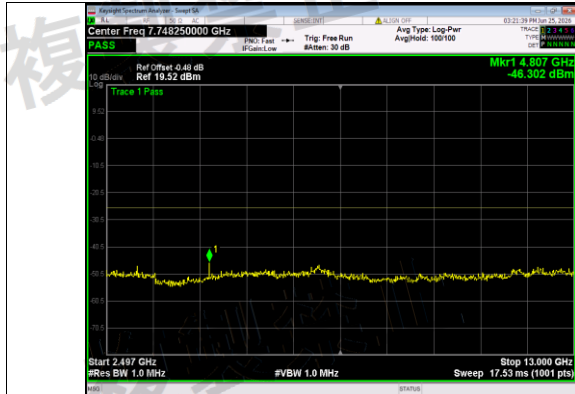
Condition	Mode	Frequency (MHz)	Antenna	Antenna Power (mW/MHz)	Antenna Power (dBm/MHz)	Gain (dBi)	EIRP Power (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	1-DH5	hopping	Ant1	0.037	-14.32	-0.98	-15.3	6.91	Pass
NVNT	1-DH5	hopping	Ant1	0.038	-14.2	-0.98	-15.18	6.91	Pass
NVNT	1-DH5	hopping	Ant1	0.04	-13.98	-0.98	-14.96	6.91	Pass
NVNT	2-DH5	hopping	Ant1	0.037	-14.32	-0.98	-15.3	6.91	Pass
NVNT	2-DH5	hopping	Ant1	0.037	-14.32	-0.98	-15.3	6.91	Pass
NVNT	2-DH5	hopping	Ant1	0.04	-13.98	-0.98	-14.96	6.91	Pass
NVNT	3-DH5	hopping	Ant1	0.037	-14.32	-0.98	-15.3	6.91	Pass
NVNT	3-DH5	hopping	Ant1	0.038	-14.2	-0.98	-15.18	6.91	Pass
NVNT	3-DH5	hopping	Ant1	0.04	-13.98	-0.98	-14.96	6.91	Pass

Tx Spurious Emission

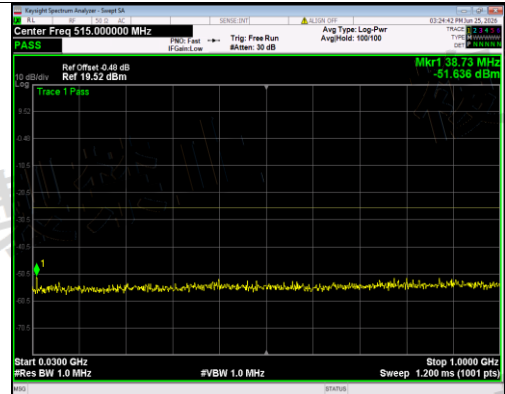
Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Emission Frequency (MHz)	Max Peak Value (dBm)	Max RMS Value (dBm)	Max Peak Value (uW)	Max RMS Value (uW)	Limit Start(uW)	Limit Stop (uW)	Verdict
NVNT	1-DH5	2402	Ant1	30-1000	763.32	52.17	NA	0.0061	NA	2.5	2.5	Pass
NVNT	1-DH5	2402	Ant1	1000-2387	2377.29	48.76	NA	0.0133	NA	2.5	2.5	Pass
NVNT	1-DH5	2402	Ant1	2387-2400	2399.97	37.67	NA	0.171	NA	25	25	Pass
NVNT	1-DH5	2402	Ant1	2483.5 - 2496.5	2490.46	49.55	NA	0.0111	NA	25	25	Pass
NVNT	1-DH5	2402	Ant1	2496.5 -13000	4807.27	46.30	NA	0.0234	NA	2.5	2.5	Pass
NVNT	1-DH5	2441	Ant1	30-1000	38.73	51.63	NA	0.0069	NA	2.5	2.5	Pass
NVNT	1-DH5	2441	Ant1	1000-2387	2387.00	49.73	NA	0.0106	NA	2.5	2.5	Pass
NVNT	1-DH5	2441	Ant1	2387-2400	2396.23	49.27	NA	0.0118	NA	25	25	Pass
NVNT	1-DH5	2441	Ant1	2483.5 - 2496.5	2490.09	49.41	NA	0.0115	NA	25	25	Pass
NVNT	1-DH5	2441	Ant1	2496.5 -13000	4880.79	46.70	NA	0.0214	NA	2.5	2.5	Pass
NVNT	1-DH5	2480	Ant1	30-1000	880.69	52.20	NA	0.006	NA	2.5	2.5	Pass
NVNT	1-DH5	2480	Ant1	1000-2387	2375.90	48.94	NA	0.0128	NA	2.5	2.5	Pass
NVNT	1-DH5	2480	Ant1	2387-2400	2394.50	49.88	NA	0.0103	NA	25	25	Pass
NVNT	1-DH5	2480	Ant1	2483.5 - 2496.5	2483.96	48.49	NA	0.0142	NA	25	25	Pass
NVNT	1-DH5	2480	Ant1	2496.5 -13000	11718.57	47.53	NA	0.0177	NA	2.5	2.5	Pass
NVNT	2-DH5	2402	Ant1	30-1000	905.91	51.90	NA	0.0065	NA	2.5	2.5	Pass
NVNT	2-DH5	2402	Ant1	1000-2387	2177.56	49.39	NA	0.0115	NA	2.5	2.5	Pass
NVNT	2-DH5	2402	Ant1	2387-2400	2400.00	31.31	NA	0.7396	NA	25	25	Pass
NVNT	2-DH5	2402	Ant1	2483.5 - 2496.5	2494.38	49.84	NA	0.0104	NA	25	25	Pass
NVNT	2-DH5	2402	Ant1	2496.5 -13000	4807.27	45.61	NA	0.0275	NA	2.5	2.5	Pass
NVNT	2-DH5	2441	Ant1	30-1000	935.98	51.69	NA	0.0068	NA	2.5	2.5	Pass
NVNT	2-DH5	2441	Ant1	1000-2387	2309.33	49.87	NA	0.0103	NA	2.5	2.5	Pass
NVNT	2-DH5	2441	Ant1	2387-2400	2397.79	49.73	NA	0.0106	NA	25	25	Pass
NVNT	2-DH5	2441	Ant1	2483.5 - 2496.5	2489.86	48.71	NA	0.0135	NA	25	25	Pass
NVNT	2-DH5	2441	Ant1	2496.5 -13000	4880.79	45.67	NA	0.0271	NA	2.5	2.5	Pass
NVNT	2-DH5	2480	Ant1	30-1000	833.16	52.13	NA	0.0061	NA	2.5	2.5	Pass
NVNT	2-DH5	2480	Ant1	1000-2387	2130.40	50.34	NA	0.0092	NA	2.5	2.5	Pass
NVNT	2-DH5	2480	Ant1	2387-2400	2390.73	49.33	NA	0.0117	NA	25	25	Pass
NVNT	2-DH5	2480	Ant1	2483.5 - 2496.5	2483.99	48.36	NA	0.0146	NA	25	25	Pass
NVNT	2-DH5	2480	Ant1	2496.5 -13000	7275.59	47.45	NA	0.018	NA	2.5	2.5	Pass
NVNT	3-DH5	2402	Ant1	30-1000	861.29	51.87	NA	0.0065	NA	2.5	2.5	Pass
NVNT	3-DH5	2402	Ant1	1000-2387	2368.97	49.63	NA	0.0109	NA	2.5	2.5	Pass

NVNT	3-DH5	2402	Ant1	2387-2400	2400.00	-31.09	NA	0.778	NA	25	25	Pass
NVNT	3-DH5	2402	Ant1	2483.5 - 2496.5	2492.18	-49.53	NA	0.0111	NA	25	25	Pass
NVNT	3-DH5	2402	Ant1	2496.5 -13000	4807.27	-45.65	NA	0.0272	NA	2.5	2.5	Pass
NVNT	3-DH5	2441	Ant1	30-1000	861.29	-51.47	NA	0.0071	NA	2.5	2.5	Pass
NVNT	3-DH5	2441	Ant1	1000-2387	2016.67	-50.06	NA	0.0099	NA	2.5	2.5	Pass
NVNT	3-DH5	2441	Ant1	2387-2400	2393.72	-49.77	NA	0.0105	NA	25	25	Pass
NVNT	3-DH5	2441	Ant1	2483.5 - 2496.5	2493.07	-49.28	NA	0.0118	NA	25	25	Pass
NVNT	3-DH5	2441	Ant1	2496.5 -13000	4880.79	-45.09	NA	0.031	NA	2.5	2.5	Pass
NVNT	3-DH5	2480	Ant1	30-1000	793.39	-50.92	NA	0.0081	NA	2.5	2.5	Pass
NVNT	3-DH5	2480	Ant1	1000-2387	2104.05	-49.77	NA	0.0105	NA	2.5	2.5	Pass
NVNT	3-DH5	2480	Ant1	2387-2400	2398.48	-49.81	NA	0.0104	NA	25	25	Pass
NVNT	3-DH5	2480	Ant1	2483.5 - 2496.5	2484.15	-48.74	NA	0.0134	NA	25	25	Pass
NVNT	3-DH5	2480	Ant1	2496.5 -13000	4964.82	-46.52	NA	0.0223	NA	2.5	2.5	Pass

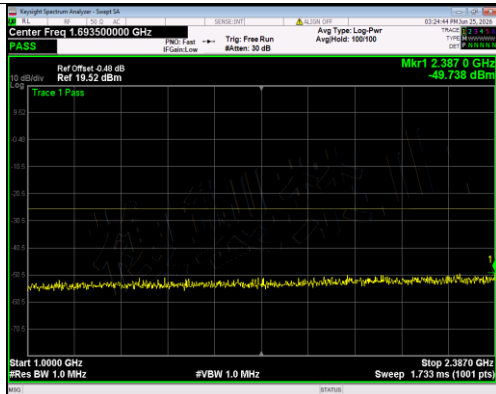




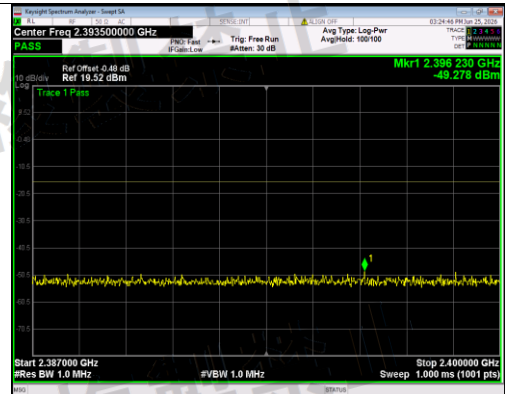
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 @ 2496.5MHz-13000MHz



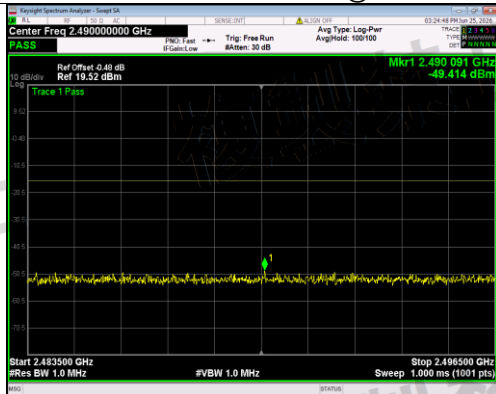
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 @ 30MHz-1000MHz



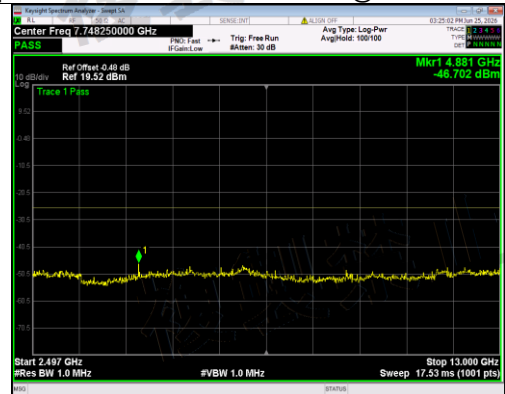
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 @ 1000MHz-2387MHz



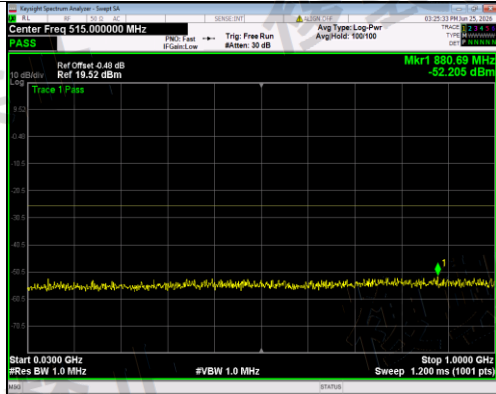
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 @ 2387MHz-2400MHz



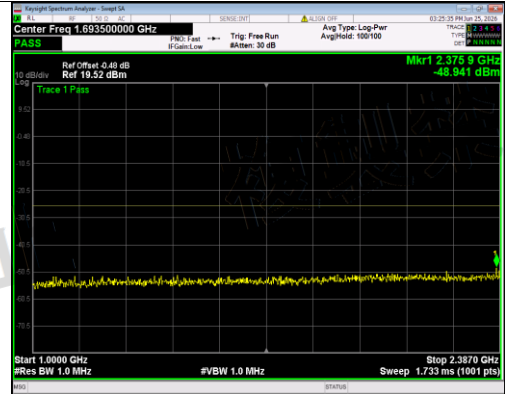
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 @ 2483.5MHz-2496.5MHz



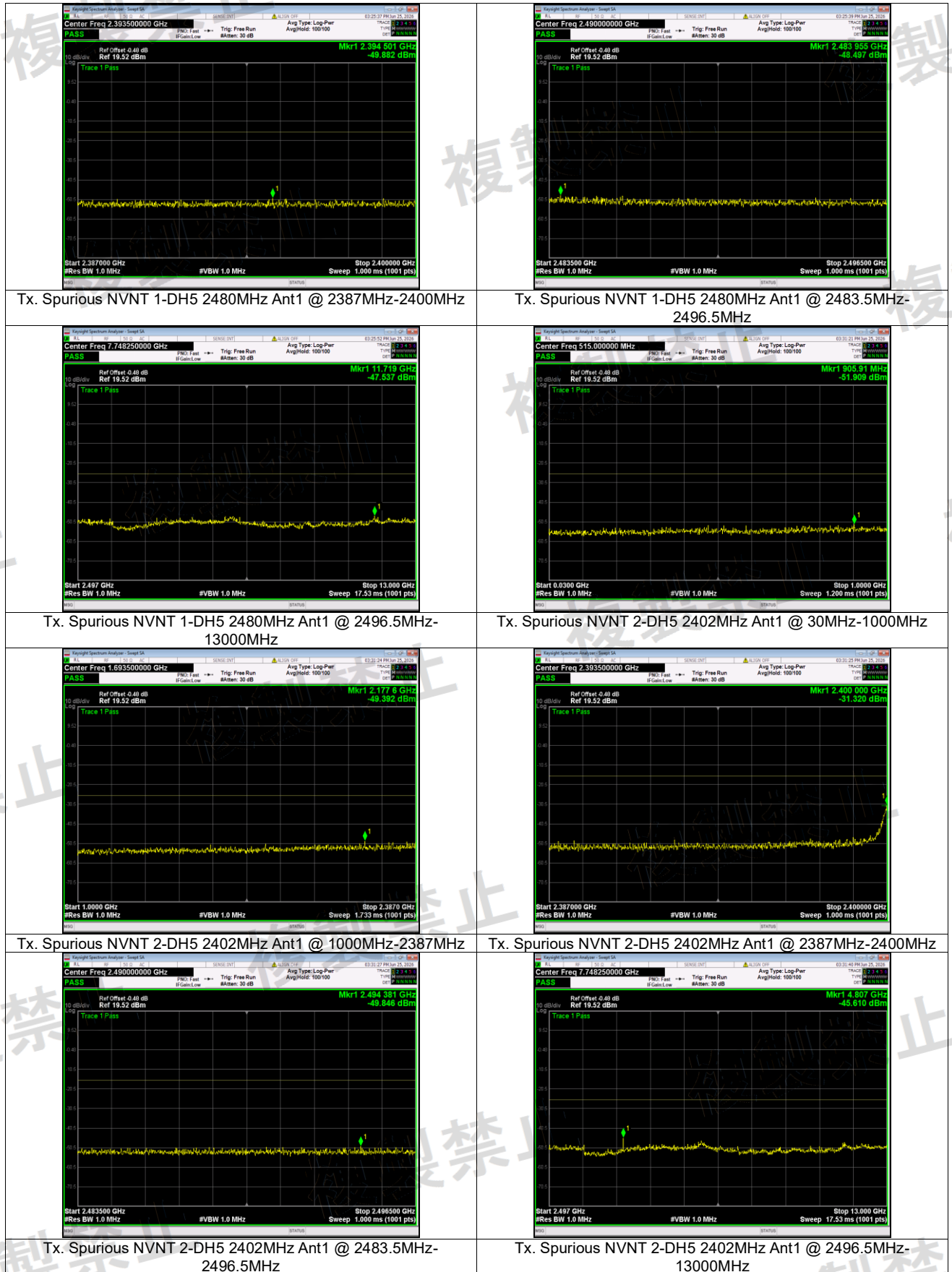
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 @ 2496.5MHz-13000MHz

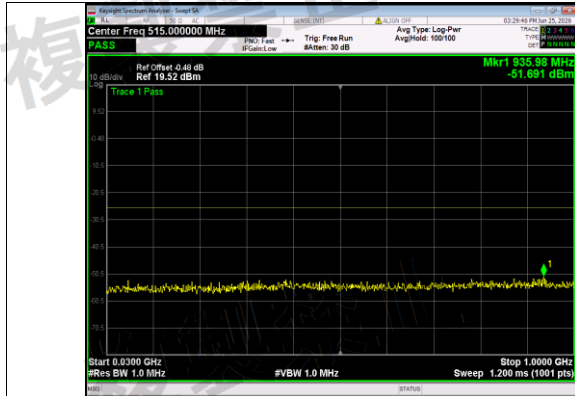


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 @ 30MHz-1000MHz

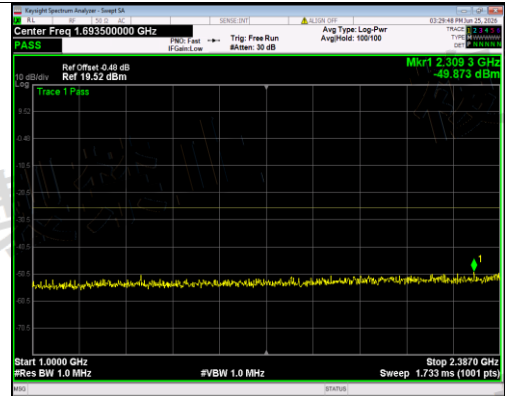


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 @ 1000MHz-2387MHz

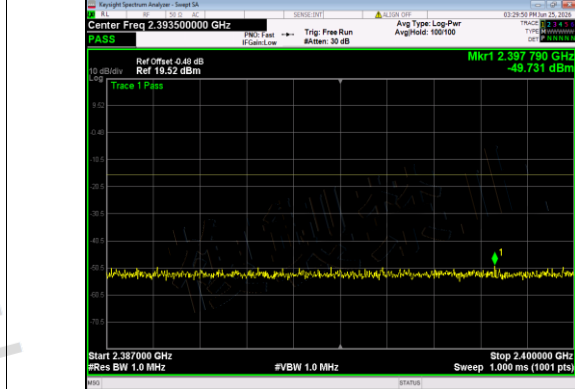




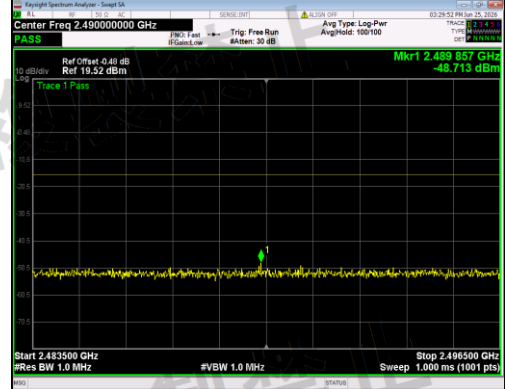
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 @ 30MHz-1000MHz



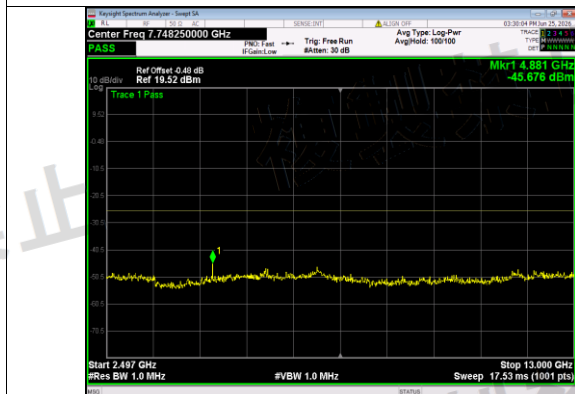
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 @ 1000MHz-2387MHz



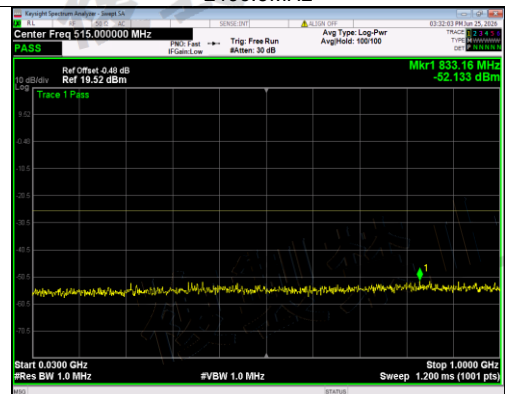
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 @ 2387MHz-2400MHz



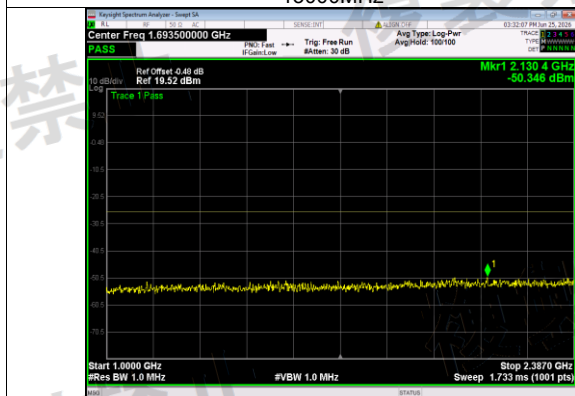
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 @ 2483.5MHz-2496.5MHz



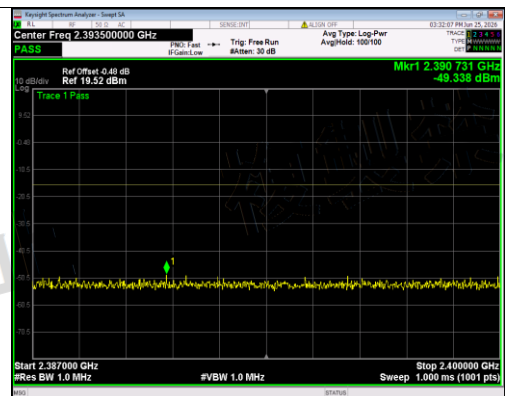
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 @ 2496.5MHz-13000MHz



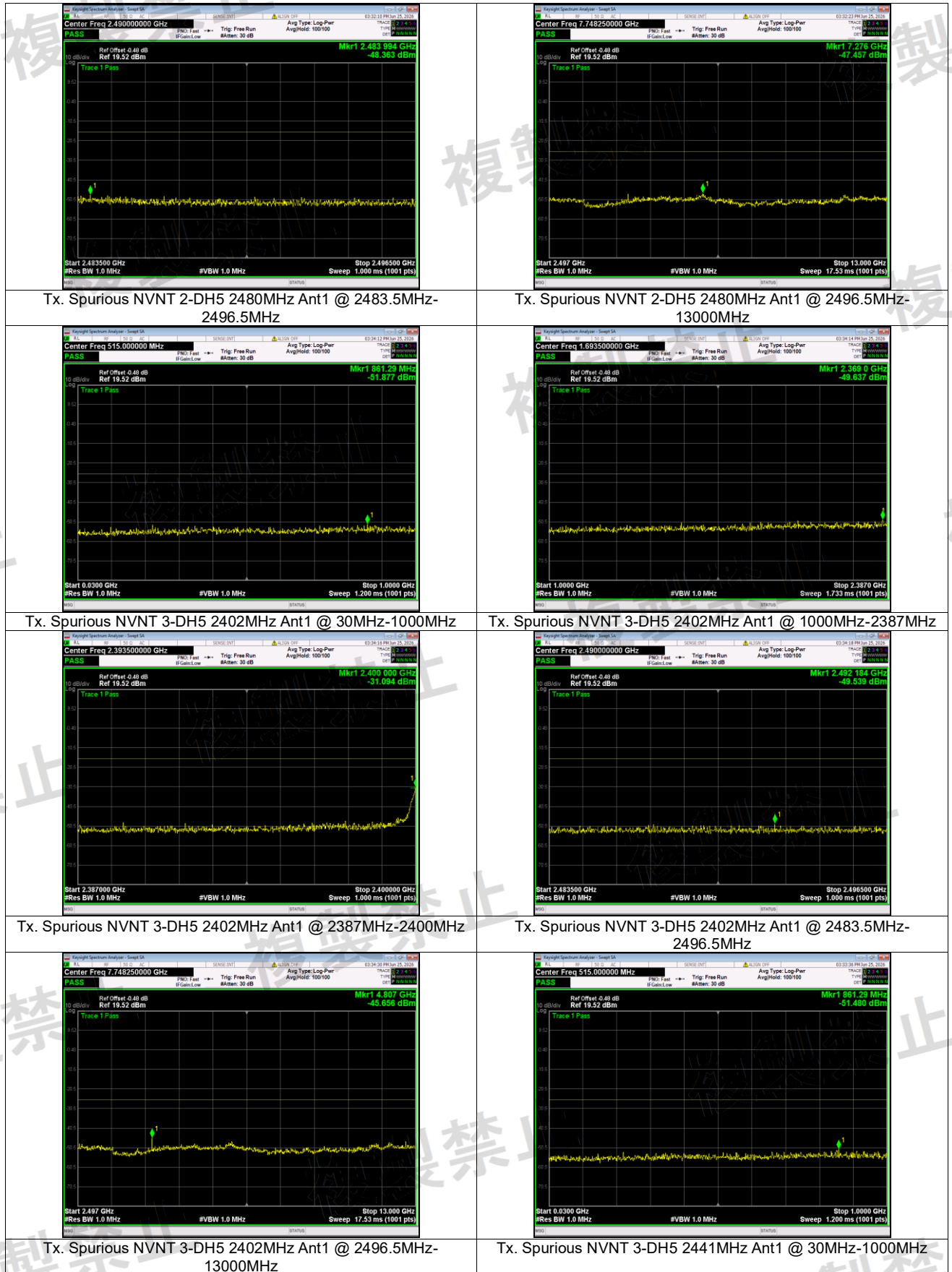
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 @ 30MHz-1000MHz

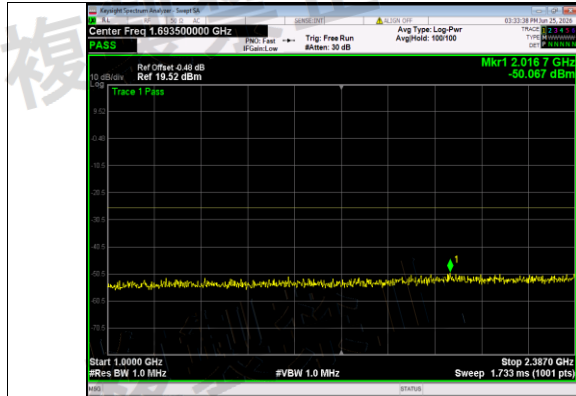


Tx. Spurious NVNT 2-DH5 2480MHz Ant1 @ 1000MHz-2387MHz

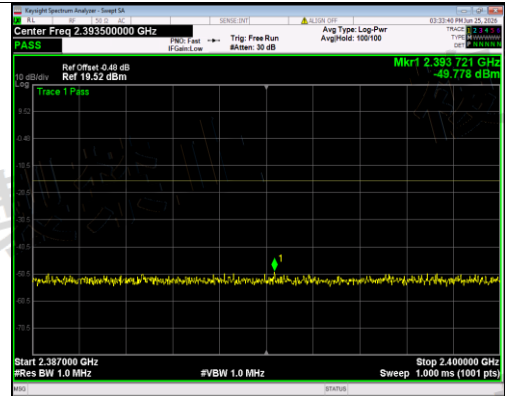


Tx. Spurious NVNT 2-DH5 2480MHz Ant1 @ 2387MHz-2400MHz

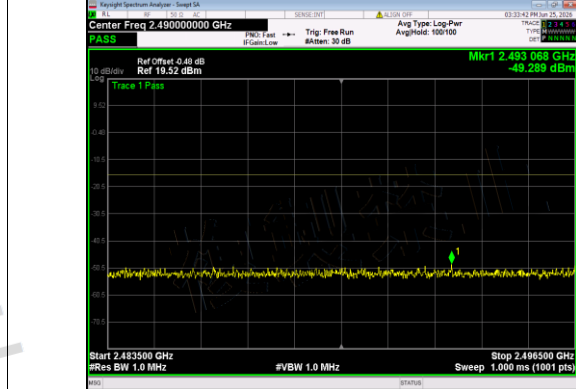




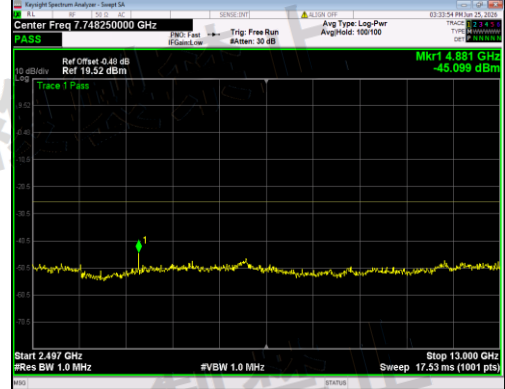
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 @ 1000MHz-2387MHz



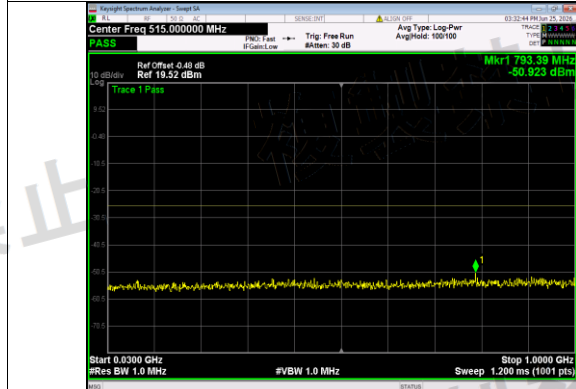
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 @ 2387MHz-2400MHz



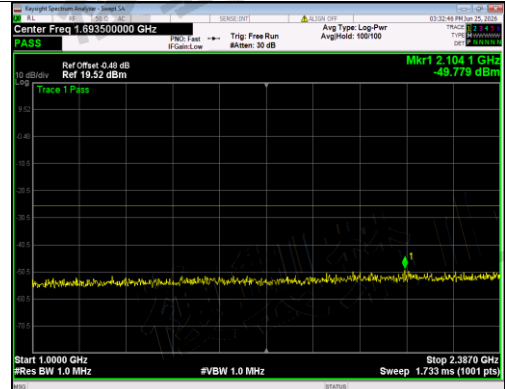
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 @ 2483.5MHz-2496.5MHz



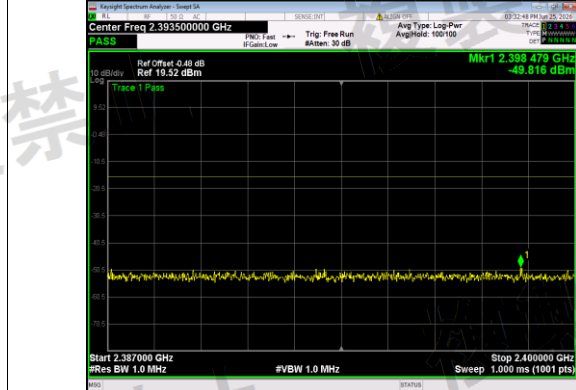
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 @ 2496.5MHz-13000MHz



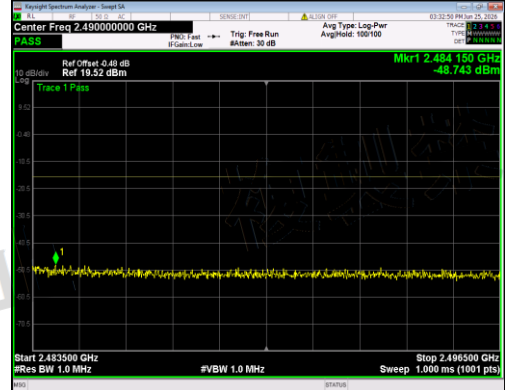
Tx. Spurious NVNT 3-DH5 2480MHz Ant1 @ 30MHz-1000MHz



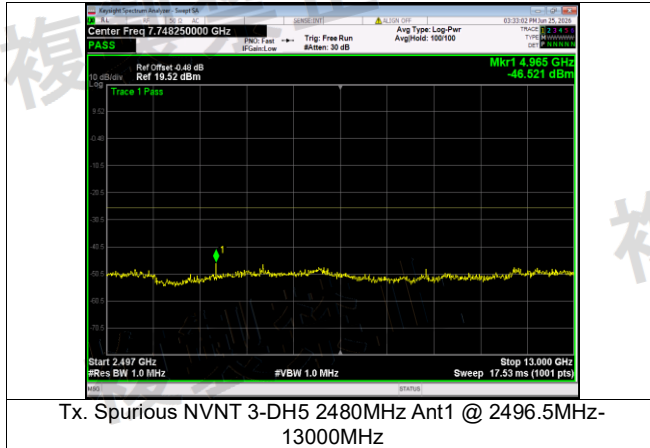
Tx. Spurious NVNT 3-DH5 2480MHz Ant1 @ 1000MHz-2387MHz



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 @ 2387MHz-2400MHz

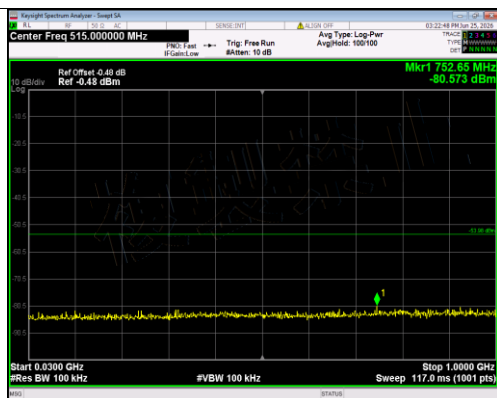


Tx. Spurious NVNT 3-DH5 2480MHz Ant1 @ 2483.5MHz-2496.5MHz

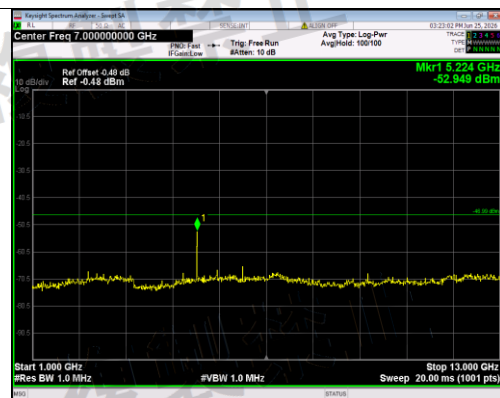


Rx Spurious Emission

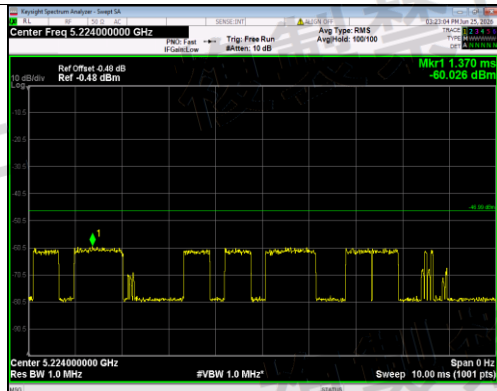
Condition	Mode	Frequency (MHz)	Antenna	Range (MHz)	Emission Frequency (MHz)	Max Peak Value (dBm)	Max RMS Value (dBm)	Max Peak Value (nW)	Max RMS Value (nW)	Limit (nW)	Verdict
NVNT	1-DH5	2402	Ant1	30-1000	752.65	-80.57	NA	0.0088	NA	4	Pass
NVNT	1-DH5	2402	Ant1	1000-13000	5224.00	-52.95	-60.03	5.0699	0.9931	20	Pass
NVNT	1-DH5	2441	Ant1	30-1000	669.23	-81.13	NA	0.0077	NA	4	Pass
NVNT	1-DH5	2441	Ant1	1000-13000	5776.00	-57.51	NA	1.7742	NA	20	Pass
NVNT	1-DH5	2480	Ant1	30-1000	773.02	-80.71	NA	0.0085	NA	4	Pass
NVNT	1-DH5	2480	Ant1	1000-13000	5224.00	-55.73	-60.08	2.673	0.9817	20	Pass



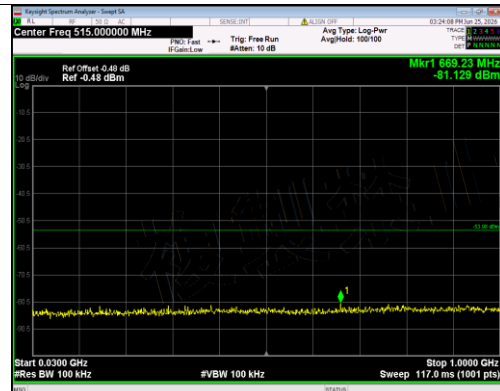
Rx. Spurious NVNT 1-DH5 2402MHz Ant1 @ 30MHz-1000MHz



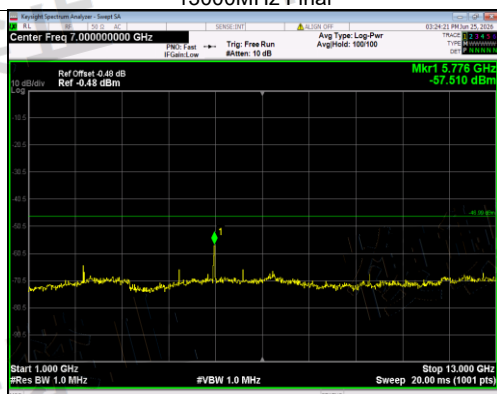
Rx. Spurious NVNT 1-DH5 2402MHz Ant1 @ 1000MHz-13000MHz



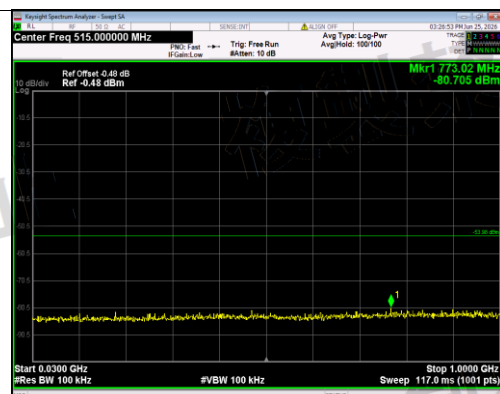
Rx. Spurious NVNT 1-DH5 2402MHz Ant1 @ 1000MHz-13000MHz Final



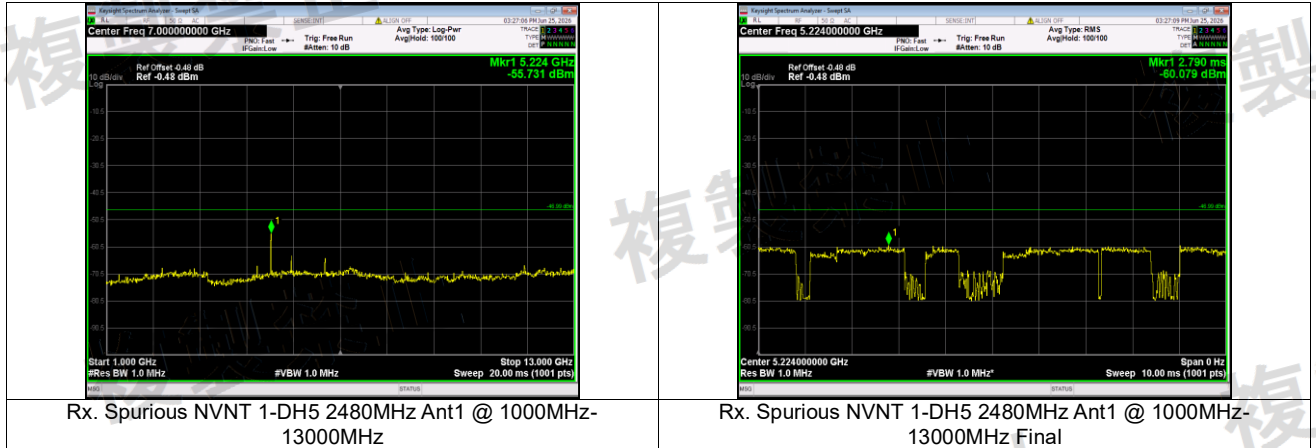
Rx. Spurious NVNT 1-DH5 2441MHz Ant1 @ 30MHz-1000MHz



Rx. Spurious NVNT 1-DH5 2441MHz Ant1 @ 1000MHz-13000MHz

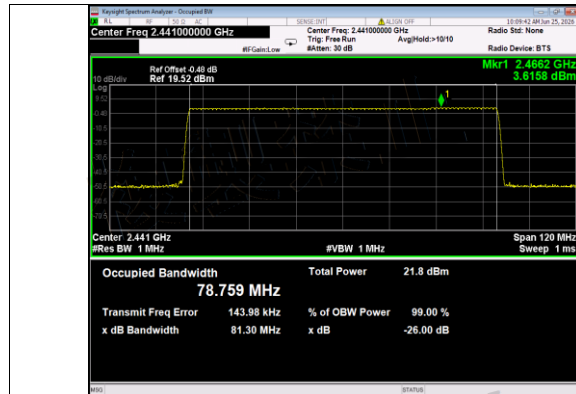


Rx. Spurious NVNT 1-DH5 2480MHz Ant1 @ 30MHz-1000MHz

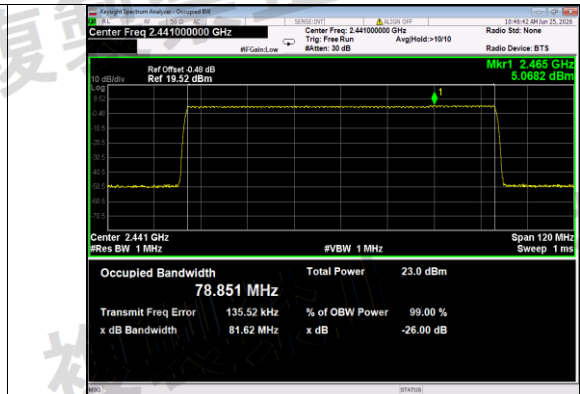


Occupied Channel Bandwidth (Hopping)

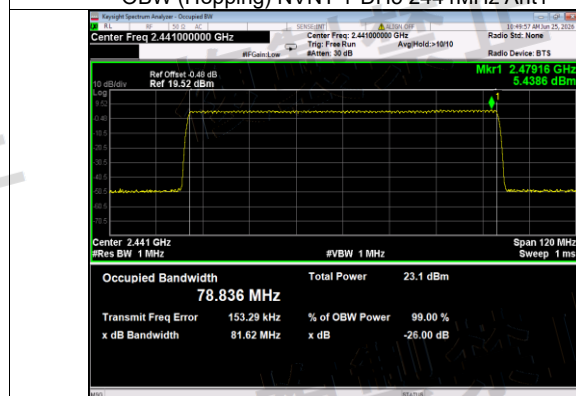
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2441	Ant1	78.759
NVNT	2-DH5	2441	Ant1	78.848
NVNT	3-DH5	2441	Ant1	78.836



OBW (Hopping) NVNT 1-DH5 2441MHz Ant1



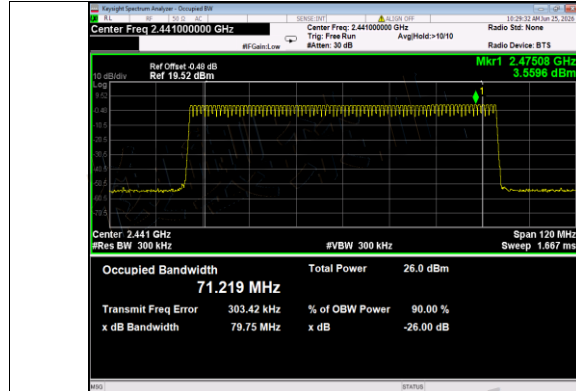
OBW (Hopping) NVNT 2-DH5 2441MHz Ant1



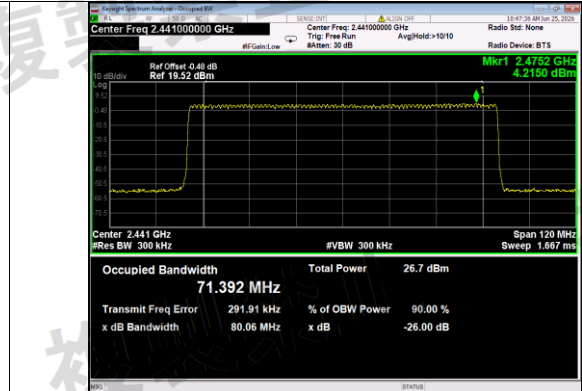
OBW (Hopping) NVNT 3-DH5 2441MHz Ant1

Spreading Bandwidth

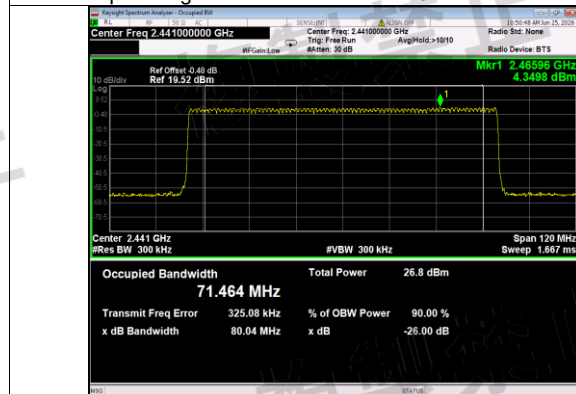
Condition	Mode	Frequency (MHz)	Antenna	90% OBW (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	2441	Ant1	71.219	0.5	Pass
NVNT	2-DH5	2441	Ant1	71.347	0.5	Pass
NVNT	3-DH5	2441	Ant1	71.469	0.5	Pass



Spreading Bandwidth NVNT 1-DH5 2441MHz Ant1



Spreading Bandwidth NVNT 2-DH5 2441MHz Ant1



Spreading Bandwidth NVNT 3-DH5 2441MHz Ant1