



Appendix E for BT RF Test Data

Product Name: Smartphone
Test Model: KINGKONG STAR 2

Environmental Conditions

Temperature:	23.7°C
Relative Humidity:	52.9%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng





E.1 RF Output Power

Condition	Mode	Frequency (MHz)	Max EIRP (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	2.92	20	Pass
NVNT	1-DH5	2480	3.21	20	Pass
NVNT	2-DH5	2402	2.04	20	Pass
NVNT	2-DH5	2480	2.3	20	Pass
NVNT	3-DH5	2402	2.13	20	Pass
NVNT	3-DH5	2480	2.44	20	Pass

Condition	Mode	Frequency (MHz)	Max EIRP (dBm)	Limit (dBm)	Verdict
NVLT	1-DH5	2402	2.79	20	Pass
NVLT	1-DH5	2480	3.09	20	Pass
NVLT	2-DH5	2402	1.99	20	Pass
NVLT	2-DH5	2480	2.24	20	Pass
NVLT	3-DH5	2402	2.05	20	Pass
NVLT	3-DH5	2480	2.34	20	Pass

Condition	Mode	Frequency (MHz)	Max EIRP (dBm)	Limit (dBm)	Verdict
NVHT	1-DH5	2402	2.72	20	Pass
NVHT	1-DH5	2480	3.04	20	Pass
NVHT	2-DH5	2402	1.84	20	Pass
NVHT	2-DH5	2480	2.07	20	Pass
NVHT	3-DH5	2402	1.91	20	Pass
NVHT	3-DH5	2480	2.24	20	Pass

Note: 20 bursts had been captured for power measurement.

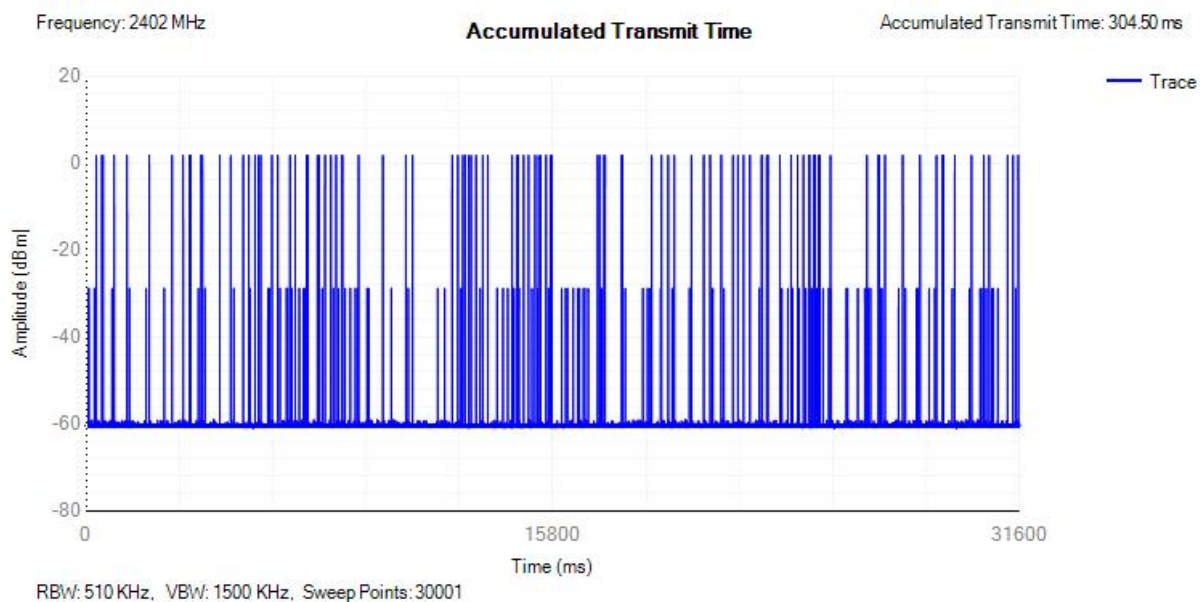




E.2 Accumulated Transmit Time

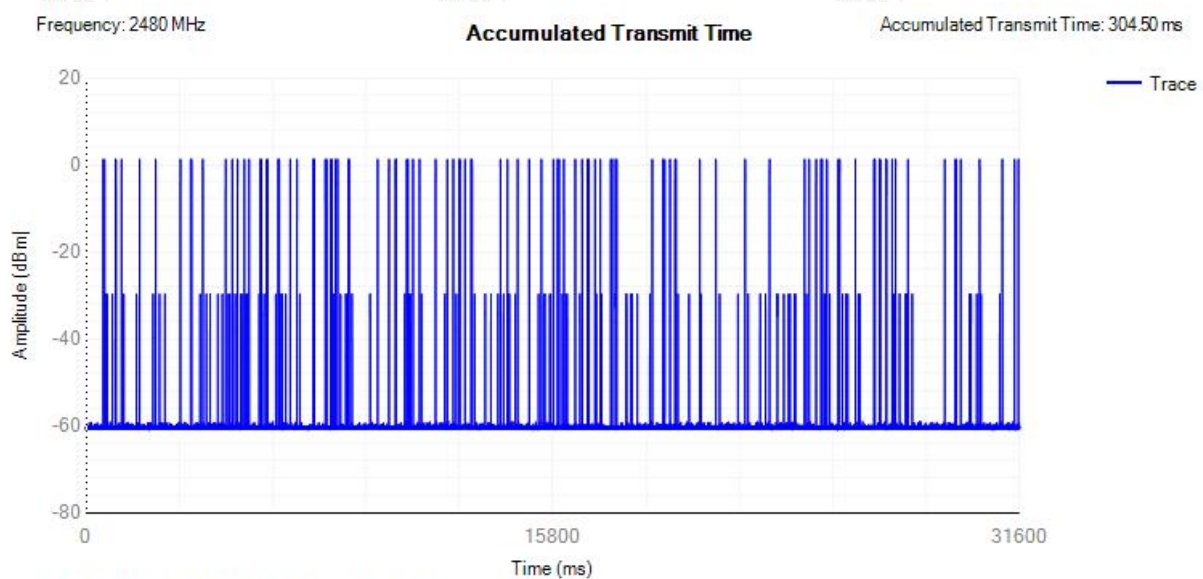
Condition	Mode	Frequency (MHz)	Accumulated Transmit Time (ms)	Limit (ms)	Sweep Time (ms)	Burst Number	Verdict
NVNT	1-DH5	2402	304.5	400	31600	105	Pass
NVNT	1-DH5	2480	304.5	400	31600	105	Pass
NVNT	2-DH5	2402	302.5	400	31600	110	Pass
NVNT	2-DH5	2480	305.25	400	31600	111	Pass
NVNT	3-DH5	2402	288.75	400	31600	105	Pass
NVNT	3-DH5	2480	269.5	400	31600	98	Pass

Dwell NVNT 1-DH5 2402MHz

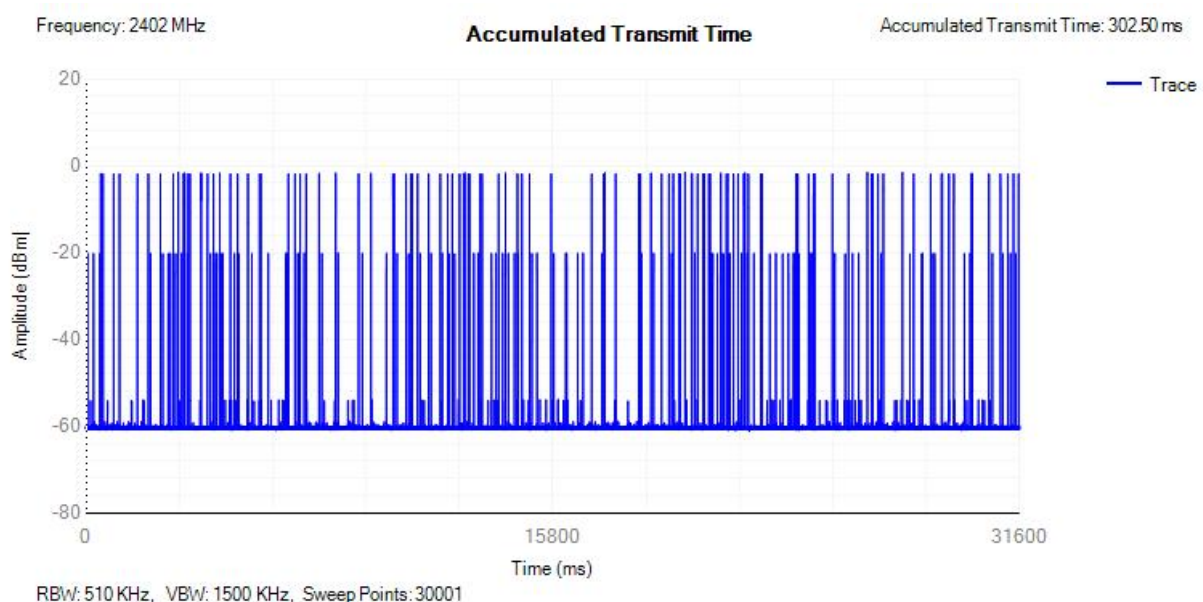




Dwell NVNT 1-DH5 2480MHz

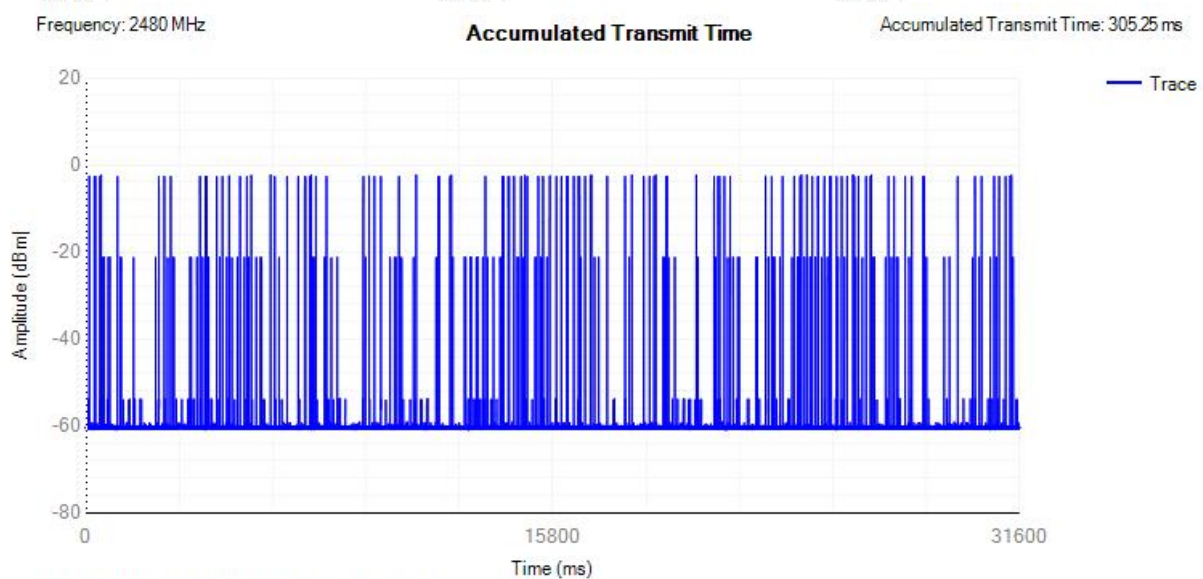


Dwell NVNT 2-DH5 2402MHz

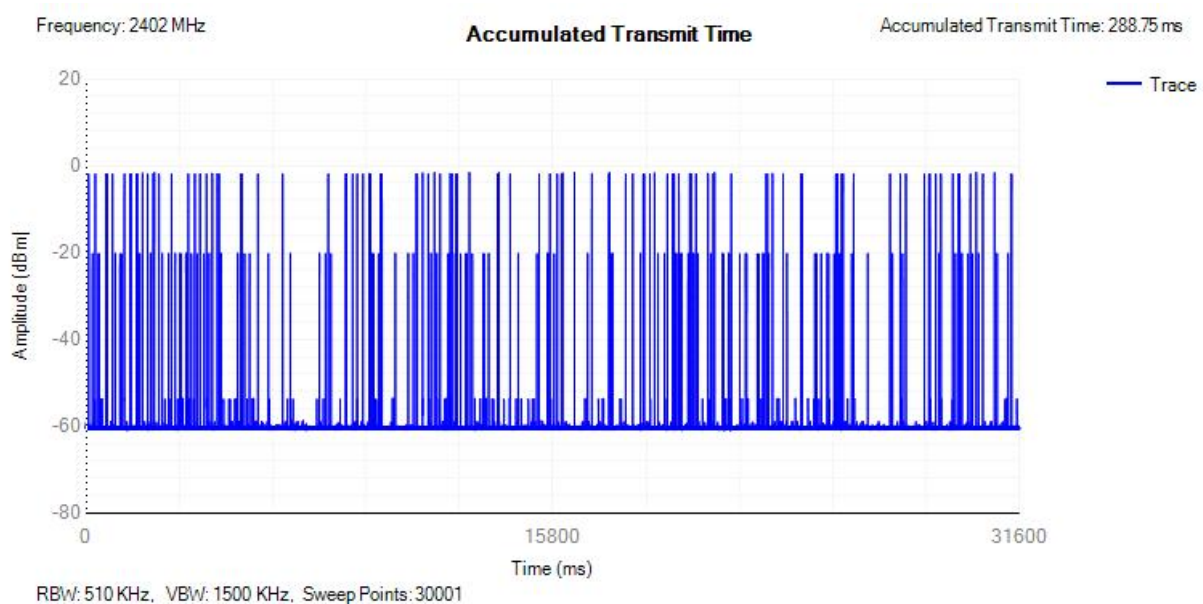




Dwell NVNT 2-DH5 2480MHz

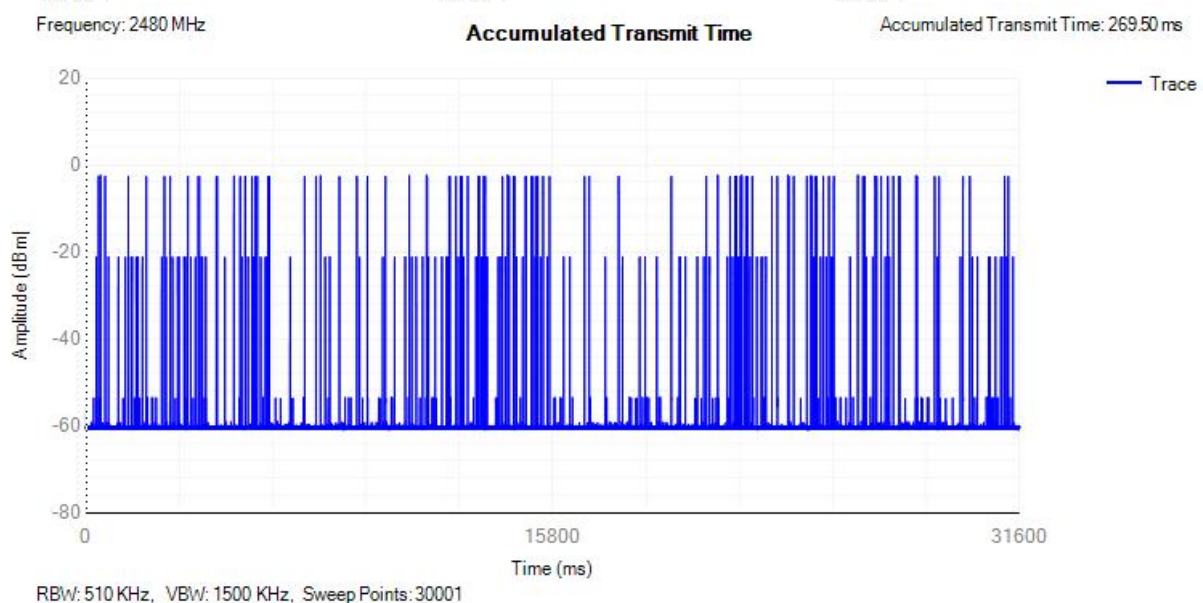


Dwell NVNT 3-DH5 2402MHz





Dwell NVNT 3-DH5 2480MHz

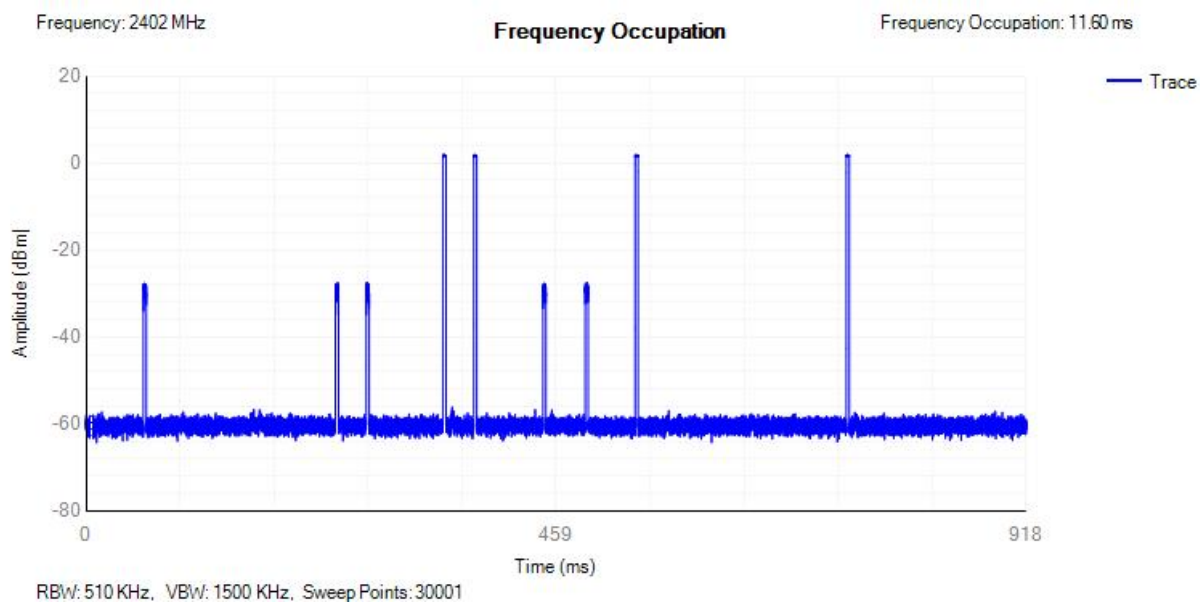




E.3 Frequency Occupation

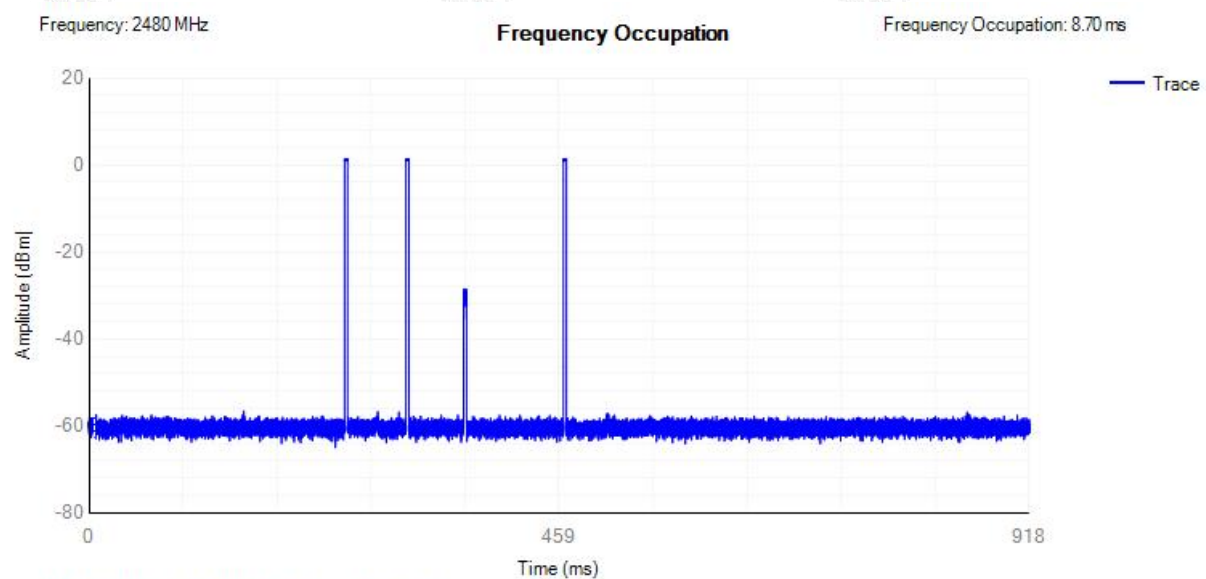
Condition	Mode	Frequency (MHz)	Frequency Occupation (ms)	Limit (ms)	Sweep Time (ms)	Burst Number	Verdict
NVNT	1-DH5	2402	11.6	0	916.4	4	Pass
NVNT	1-DH5	2480	8.7	0	916.4	3	Pass
NVNT	2-DH5	2402	11	0	869	4	Pass
NVNT	2-DH5	2480	5.5	0	869	2	Pass
NVNT	3-DH5	2402	16.5	0	869	6	Pass
NVNT	3-DH5	2480	2.75	0	869	1	Pass

Freq. Occup. NVNT 1-DH5 2402MHz



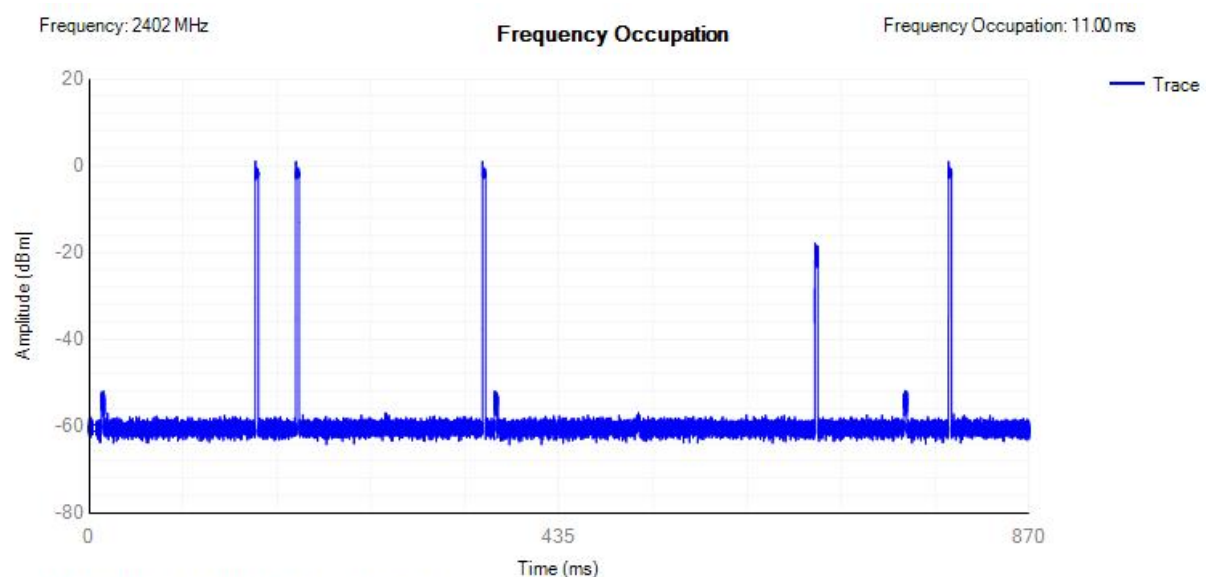


Freq. Occup. NVNT 1-DH5 2480MHz



RBW: 510 KHz, VBW: 1500 KHz, Sweep Points: 30001

Freq. Occup. NVNT 2-DH5 2402MHz

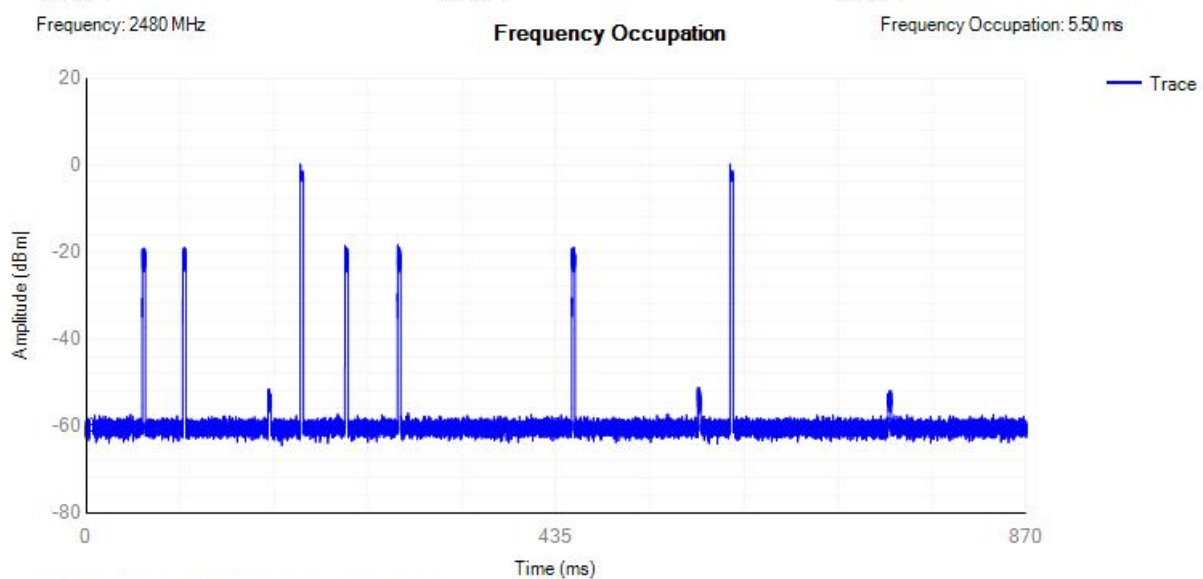


RBW: 510 KHz, VBW: 1500 KHz, Sweep Points: 30001

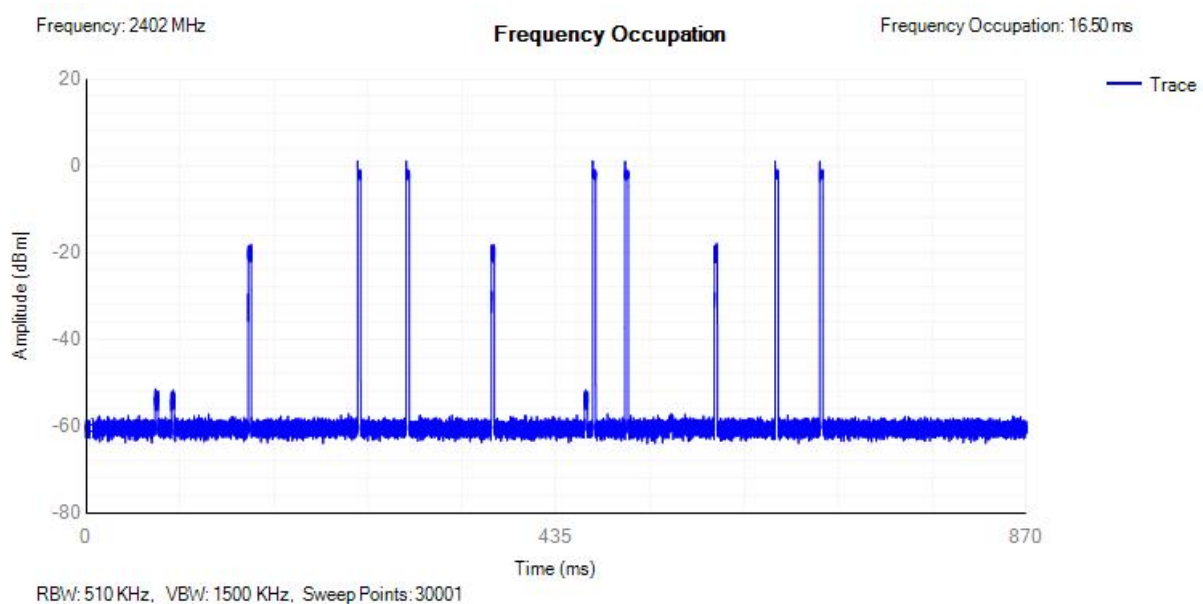




Freq. Occup. NVNT 2-DH5 2480MHz

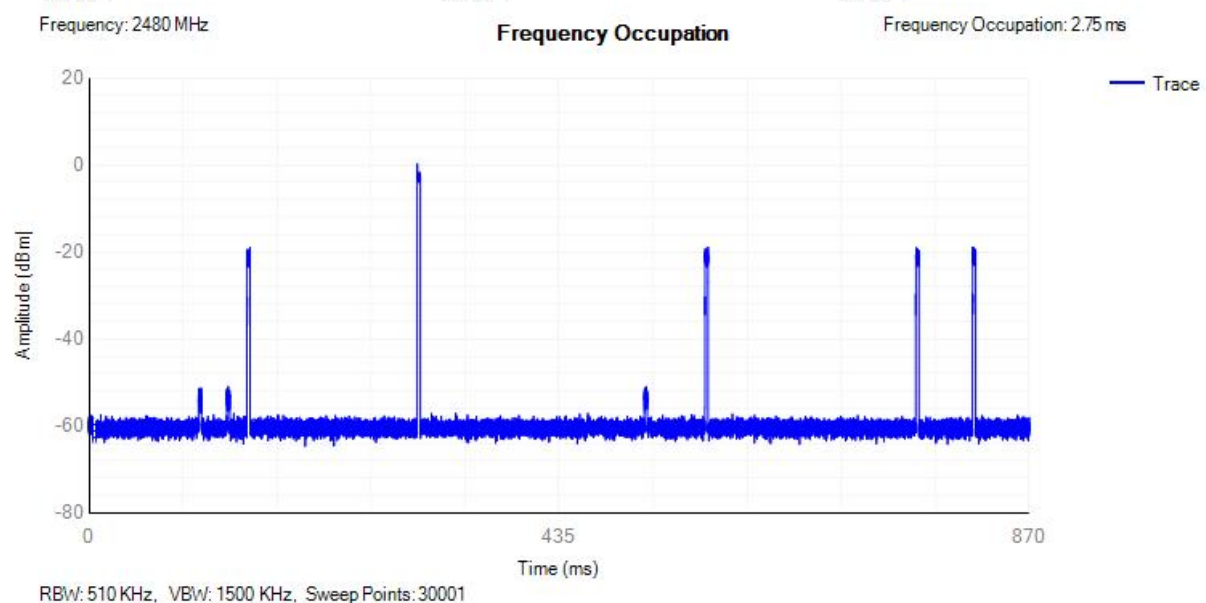


Freq. Occup. NVNT 3-DH5 2402MHz





Freq. Occup. NVNT 3-DH5 2480MHz

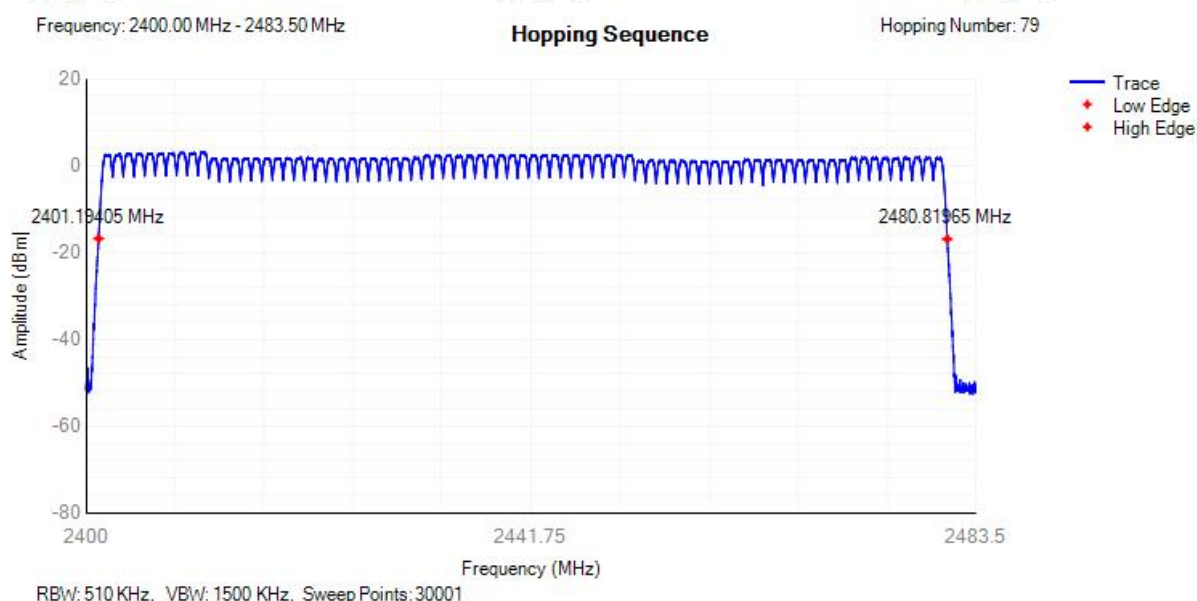




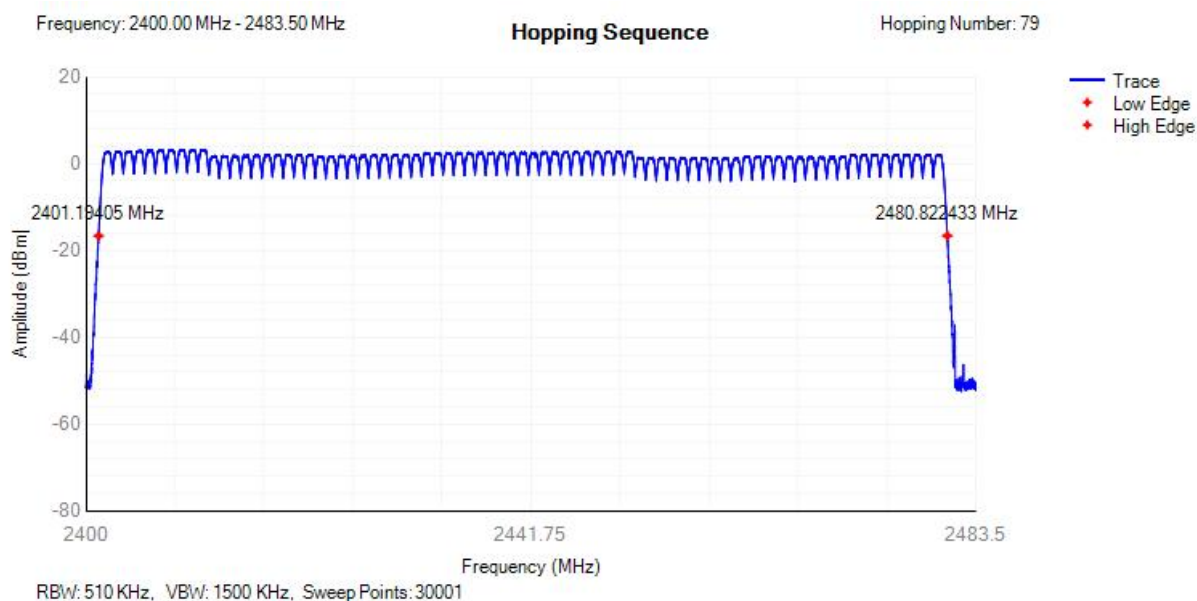
E.4 Hopping Sequence

Condition	Mode	Hopping Number	Limit	Band Allocation (%)	Limit Band Allocation (%)	Verdict
NVNT	1-DH5	79	15	95.35	70	Pass
NVNT	1-DH5	79	15	95.36	70	Pass
NVNT	2-DH5	79	15	95.91	70	Pass
NVNT	2-DH5	79	15	95.9	70	Pass
NVNT	3-DH5	79	15	95.92	70	Pass
NVNT	3-DH5	79	15	95.89	70	Pass

Hopping Seq. NVNT 1-DH5 2402MHz

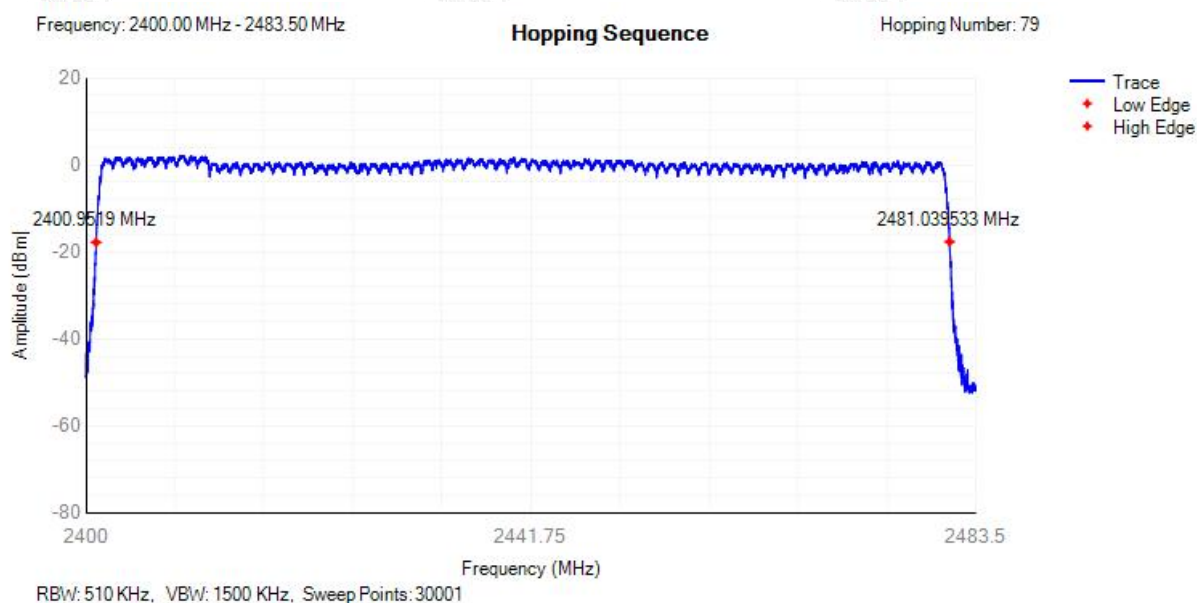


Hopping Seq. NVNT 1-DH5 2480MHz

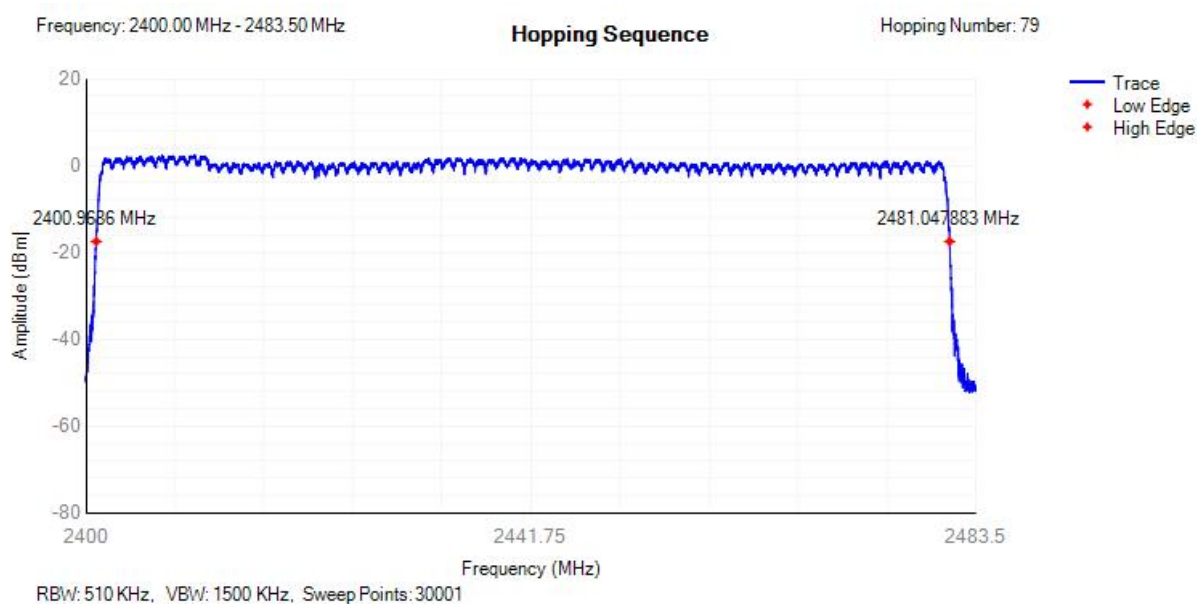




Hopping Seq. NVNT 2-DH5 2402MHz

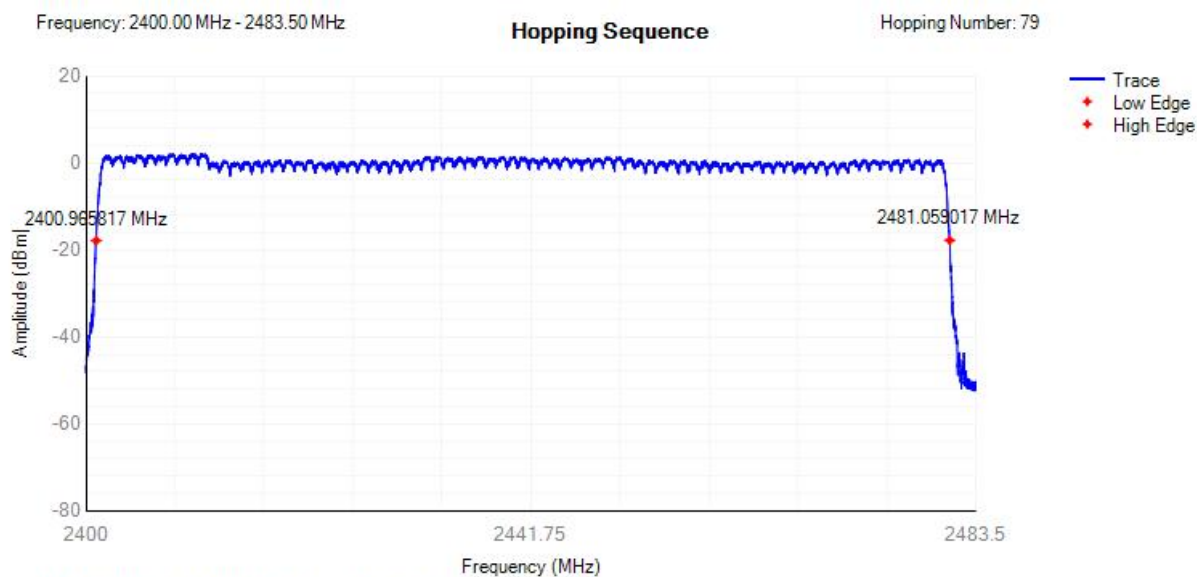


Hopping Seq. NVNT 2-DH5 2480MHz

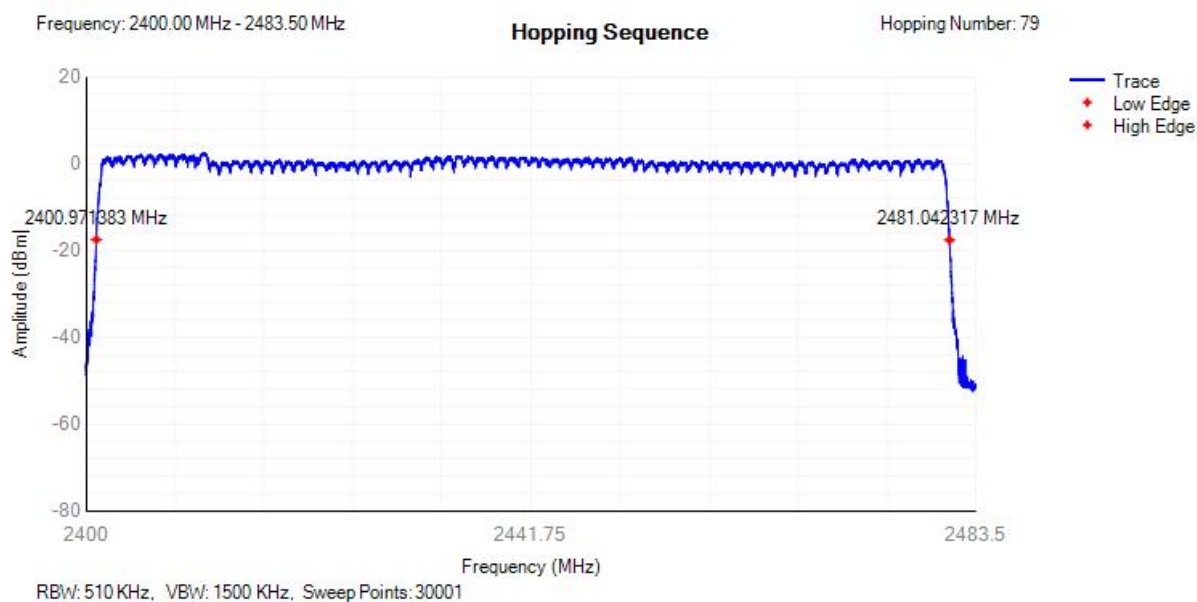




Hopping Seq. NVNT 3-DH5 2402MHz



Hopping Seq. NVNT 3-DH5 2480MHz

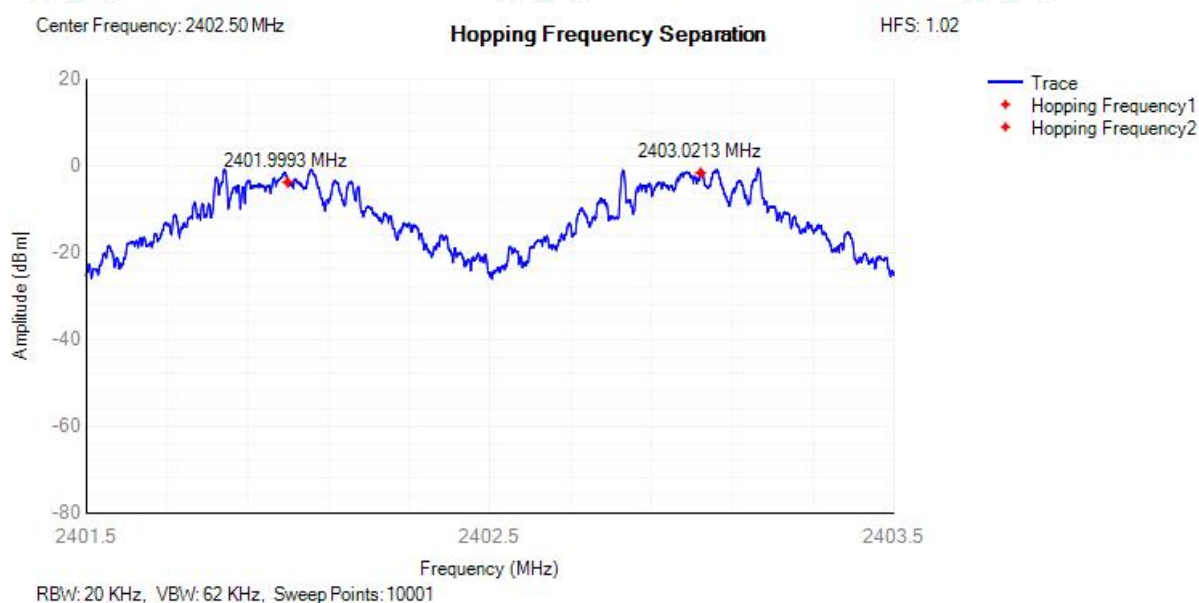




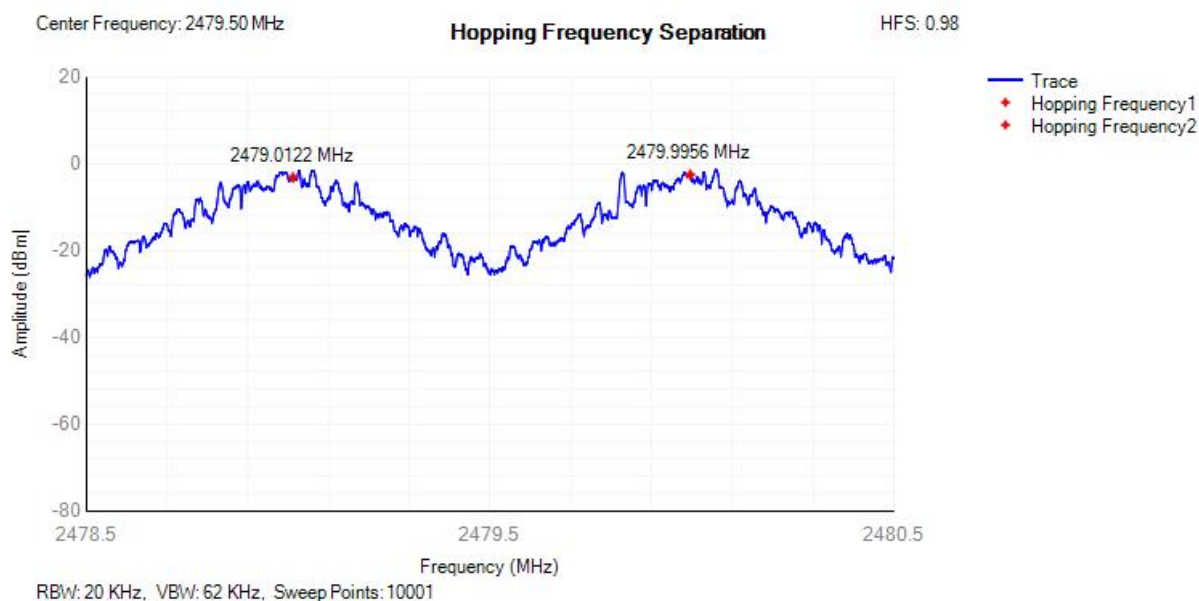
E.5 Hopping Frequency Separation

Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	2401.9993	2403.0213	1.02	0.1	Pass
NVNT	1-DH5	2479.0122	2479.9956	0.98	0.1	Pass
NVNT	2-DH5	2402.005	2403.0027	0.99	0.1	Pass
NVNT	2-DH5	2479.0092	2480.0082	0.99	0.1	Pass
NVNT	3-DH5	2401.9744	2403.102	1.12	0.1	Pass
NVNT	3-DH5	2478.9519	2480.1826	1.23	0.1	Pass

HFS NVNT 1-DH5 2402MHz



HFS NVNT 1-DH5 2480MHz



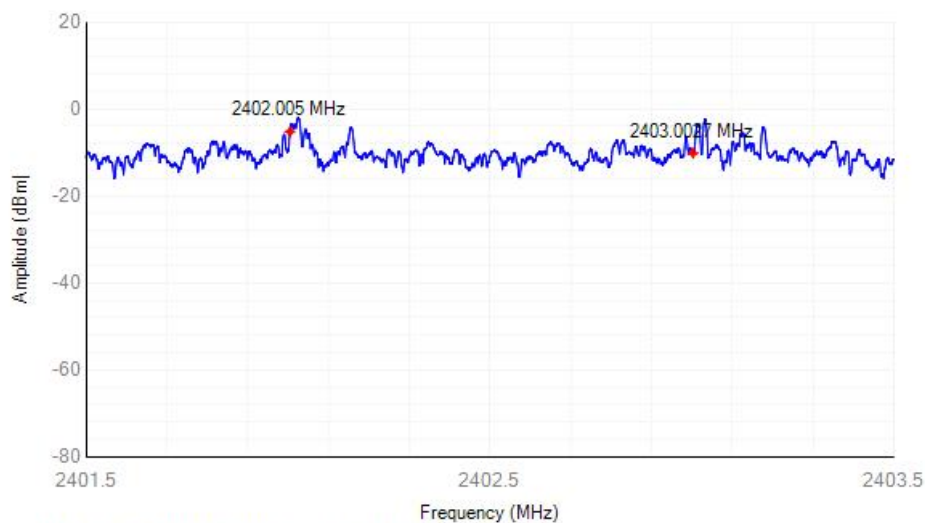


HFS NVNT 2-DH5 2402MHz

Center Frequency: 2402.50 MHz

Hopping Frequency Separation

HFS: 0.99



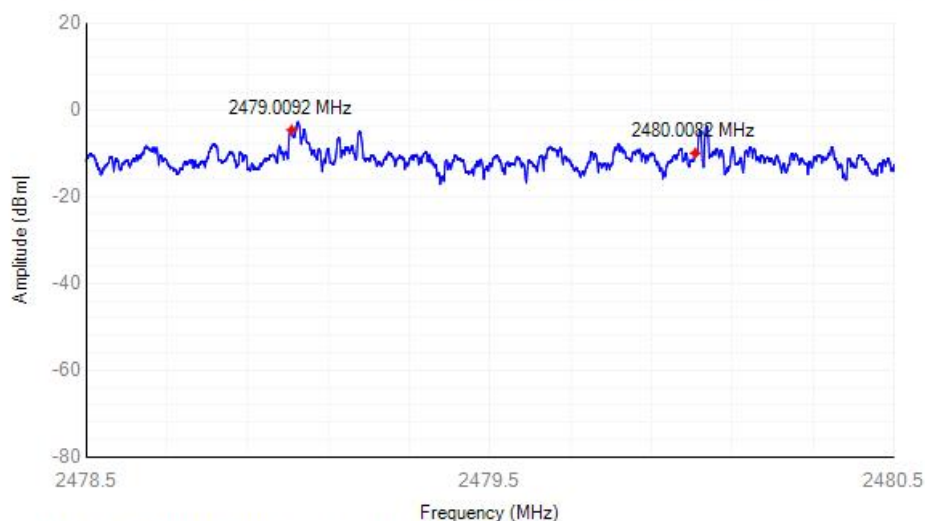
Trace
Hopping Frequency1
Hopping Frequency2

HFS NVNT 2-DH5 2480MHz

Center Frequency: 2479.50 MHz

Hopping Frequency Separation

HFS: 0.99



Trace
Hopping Frequency1
Hopping Frequency2



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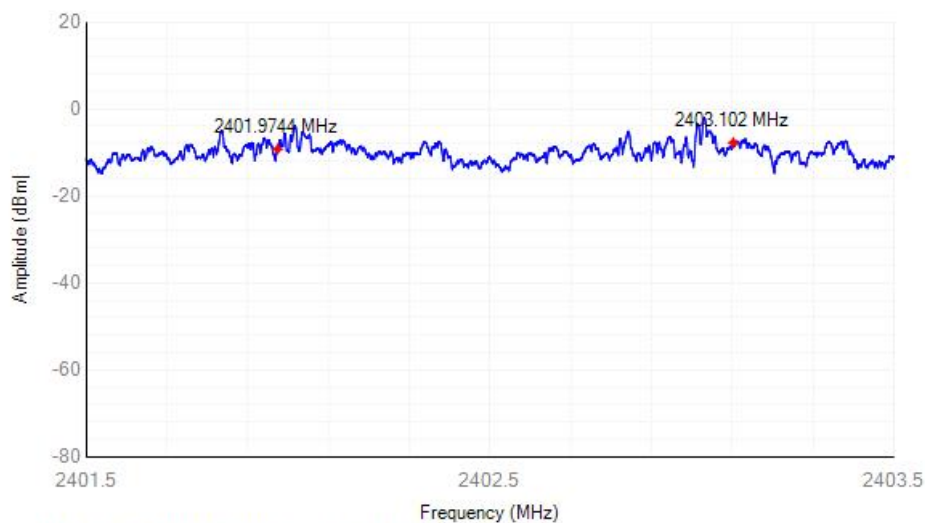


HFS NVNT 3-DH5 2402MHz

Center Frequency: 2402.50 MHz

Hopping Frequency Separation

HFS: 1.12



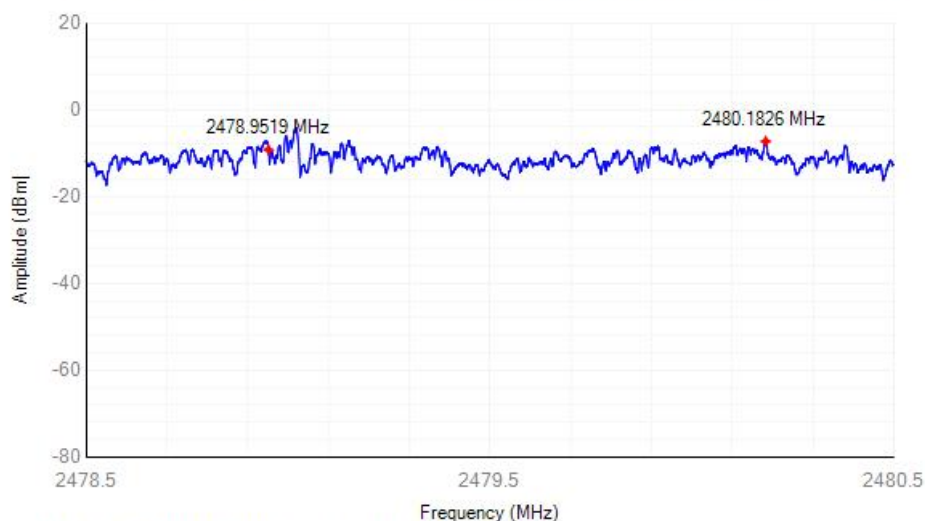
Trace
Hopping Frequency1
Hopping Frequency2

HFS NVNT 3-DH5 2480MHz

Center Frequency: 2479.50 MHz

Hopping Frequency Separation

HFS: 1.23



Trace
Hopping Frequency1
Hopping Frequency2



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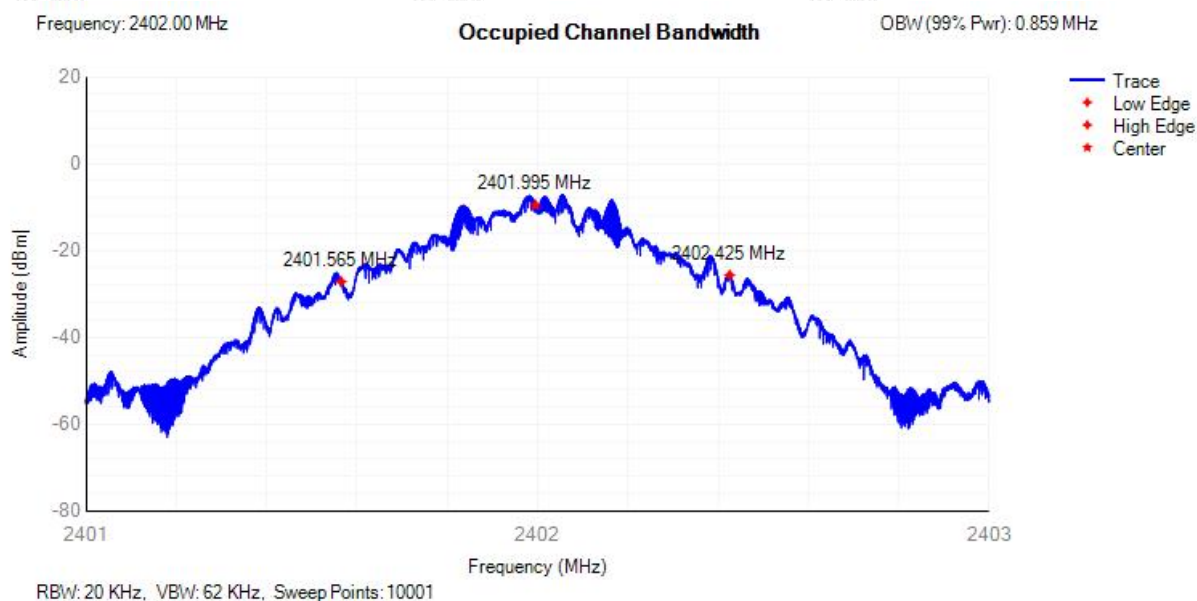
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E.6 Occupied Channel Bandwidth

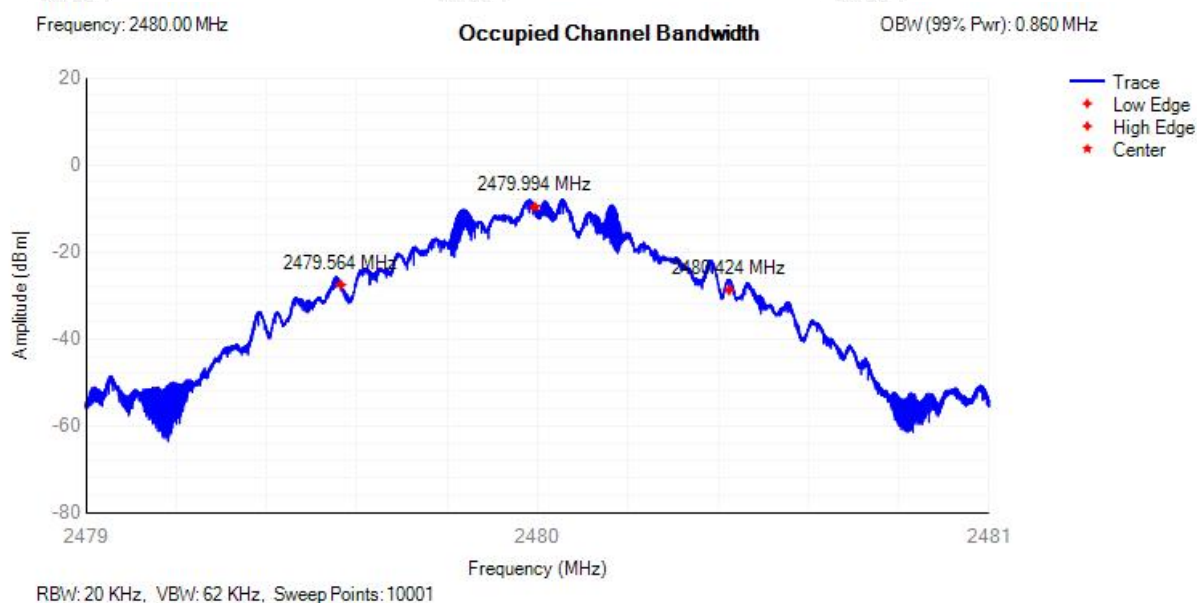
Condition	Mode	Frequency (MHz)	Center Frequency (MHz)	OBW (MHz)	Lower Edge (MHz)	Upper Edge (MHz)	Limit OBW (MHz)	Verdict
NVNT	1-DH5	2402	2401.995	0.859	2401.565	2402.425	2400 - 2483.5MHz	Pass
NVNT	1-DH5	2480	2479.994	0.86	2479.564	2480.424	2400 - 2483.5MHz	Pass
NVNT	2-DH5	2402	2401.998	1.178	2401.409	2402.588	2400 - 2483.5MHz	Pass
NVNT	2-DH5	2480	2479.998	1.178	2479.408	2480.587	2400 - 2483.5MHz	Pass
NVNT	3-DH5	2402	2401.996	1.193	2401.4	2402.593	2400 - 2483.5MHz	Pass
NVNT	3-DH5	2480	2479.996	1.193	2479.399	2480.593	2400 - 2483.5MHz	Pass

OBW NVNT 1-DH5 2402MHz

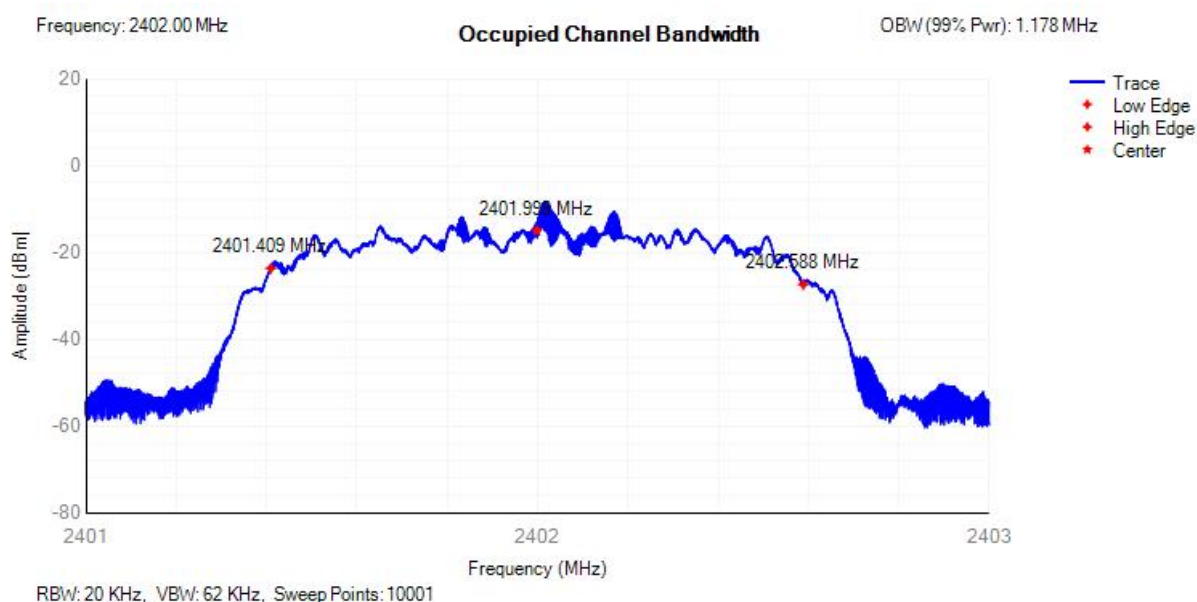




OBW NVNT 1-DH5 2480MHz



OBW NVNT 2-DH5 2402MHz



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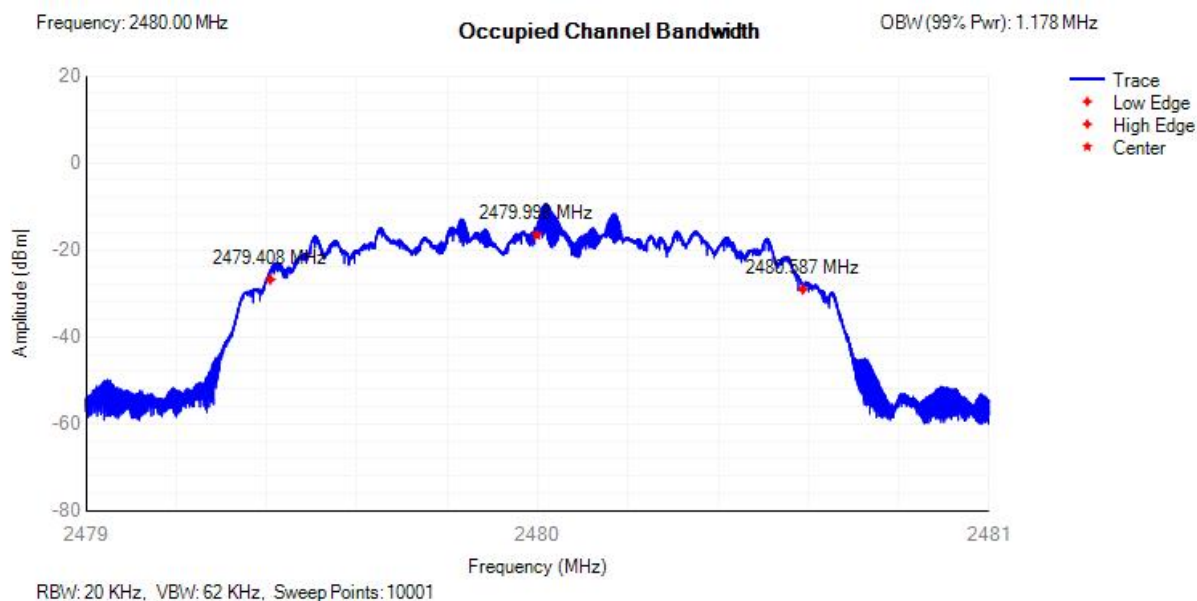
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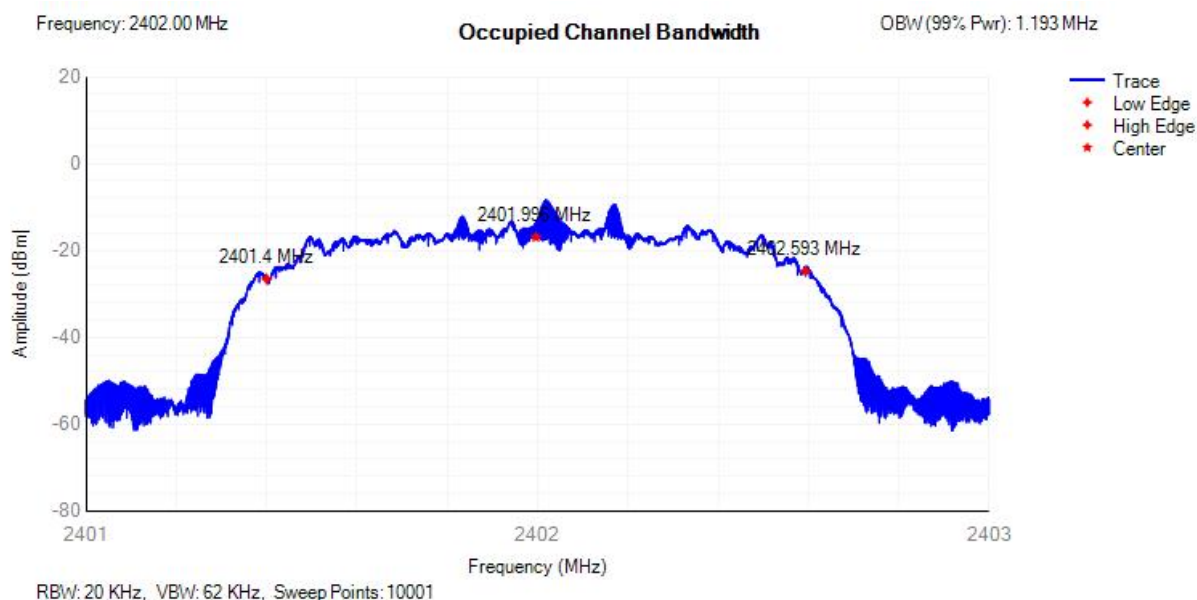
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OBW NVNT 2-DH5 2480MHz



OBW NVNT 3-DH5 2402MHz



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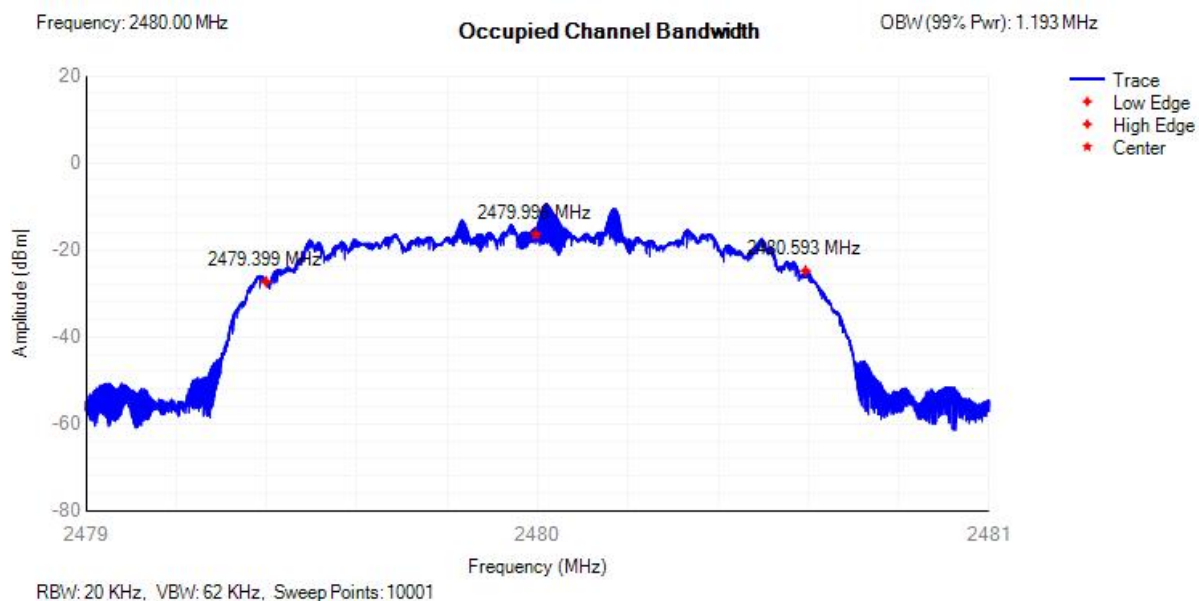
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E.7 Transmitter unwanted emissions in the out-of-band domain

Condition	Mode	Frequency (MHz)	OOB Frequency (MHz)	Level (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	1-DH5	2402	2399.5	-72.47	-10	Pass
NVNT	1-DH5	2402	2398.5	-75.01	-20	Pass
NVNT	1-DH5	2402	2484	-73.97	-10	Pass
NVNT	1-DH5	2402	2485	-76.18	-20	Pass
NVNT	1-DH5	2480	2399.5	-74.49	-10	Pass
NVNT	1-DH5	2480	2398.5	-76.49	-20	Pass
NVNT	1-DH5	2480	2484	-71.18	-10	Pass
NVNT	1-DH5	2480	2485	-76.64	-20	Pass
NVNT	2-DH5	2402	2399.5	-55.03	-10	Pass
NVNT	2-DH5	2402	2399.322	-73.07	-10	Pass
NVNT	2-DH5	2402	2398.322	-76.85	-20	Pass
NVNT	2-DH5	2402	2398.144	-75.65	-20	Pass
NVNT	2-DH5	2402	2484	-67.46	-10	Pass
NVNT	2-DH5	2402	2484.178	-72.71	-10	Pass
NVNT	2-DH5	2402	2485.178	-75.76	-20	Pass
NVNT	2-DH5	2402	2485.356	-75.16	-20	Pass
NVNT	2-DH5	2480	2399.5	-72.72	-10	Pass
NVNT	2-DH5	2480	2399.322	-75.23	-10	Pass
NVNT	2-DH5	2480	2398.322	-73.12	-20	Pass
NVNT	2-DH5	2480	2398.144	-76.97	-20	Pass
NVNT	2-DH5	2480	2484	-76.07	-10	Pass
NVNT	2-DH5	2480	2484.178	-75.49	-10	Pass
NVNT	2-DH5	2480	2485.178	-70.42	-20	Pass
NVNT	2-DH5	2480	2485.356	-74.53	-20	Pass
NVNT	3-DH5	2402	2399.5	-76.46	-10	Pass
NVNT	3-DH5	2402	2399.307	-75.48	-10	Pass
NVNT	3-DH5	2402	2398.307	-76.52	-20	Pass
NVNT	3-DH5	2402	2398.114	-66.69	-20	Pass
NVNT	3-DH5	2402	2484	-73.09	-10	Pass
NVNT	3-DH5	2402	2484.193	-75.29	-10	Pass
NVNT	3-DH5	2402	2485.193	-76.6	-20	Pass
NVNT	3-DH5	2402	2485.386	-77.13	-20	Pass
NVNT	3-DH5	2480	2399.5	-54.34	-10	Pass
NVNT	3-DH5	2480	2399.307	-75.16	-10	Pass
NVNT	3-DH5	2480	2398.307	-72.61	-20	Pass



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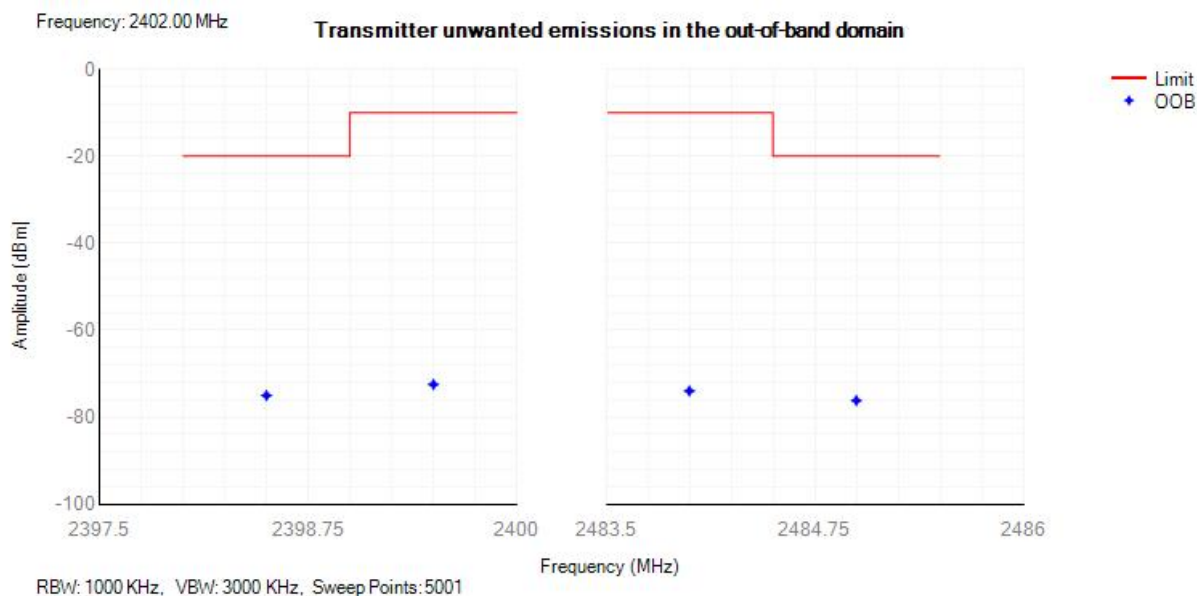
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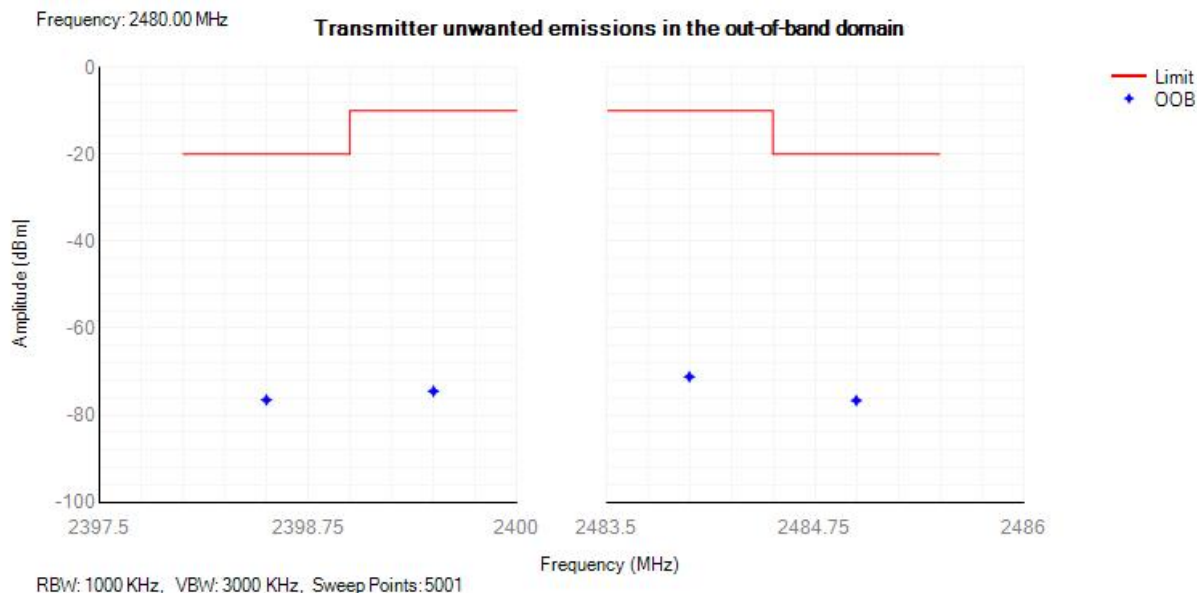


NVNT	3-DH5	2480	2398.114	-76.91	-20	Pass
NVNT	3-DH5	2480	2484	-72.76	-10	Pass
NVNT	3-DH5	2480	2484.193	-71.47	-10	Pass
NVNT	3-DH5	2480	2485.193	-70.75	-20	Pass
NVNT	3-DH5	2480	2485.386	-71.1	-20	Pass

Tx. Emissions OOB NVNT 1-DH5 2402MHz

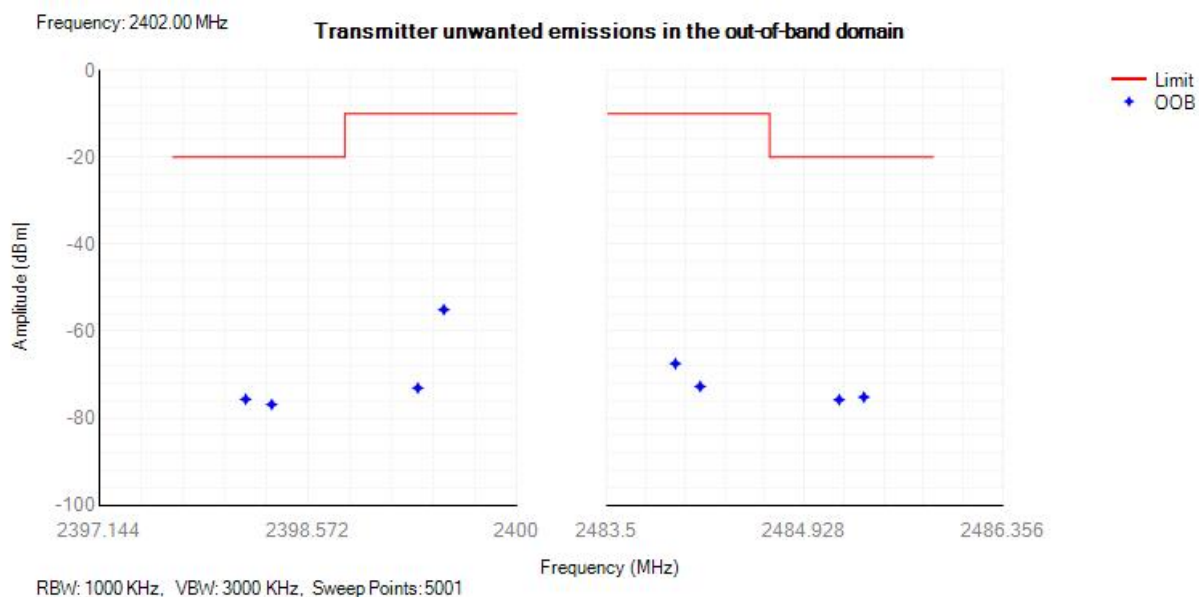


Tx. Emissions OOB NVNT 1-DH5 2480MHz

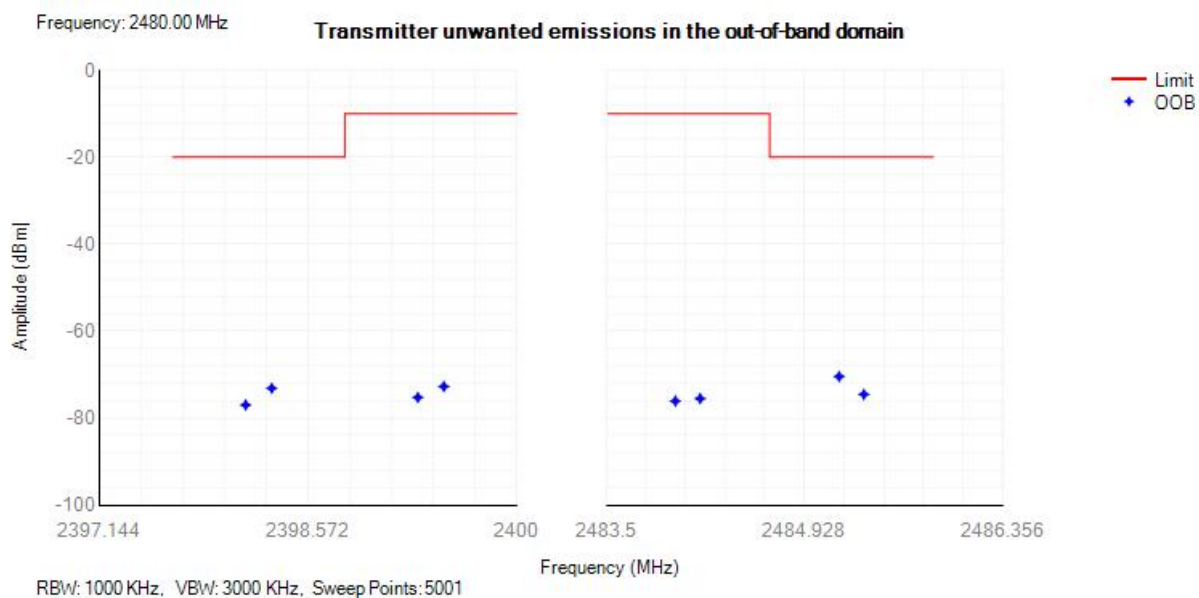




Tx. Emissions OOB NVNT 2-DH5 2402MHz

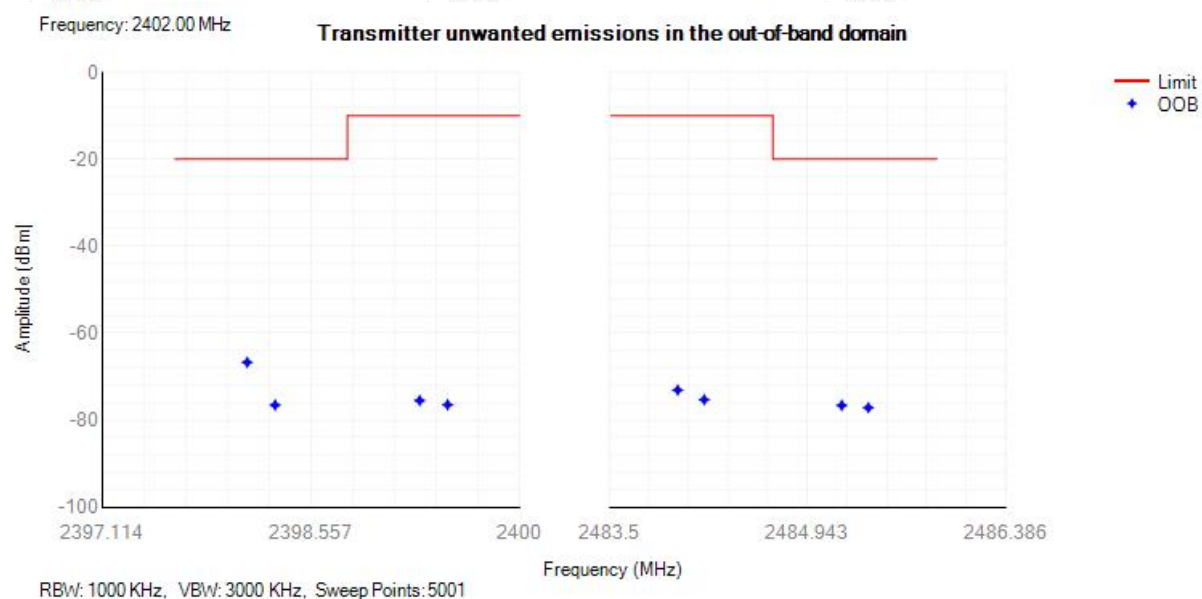


Tx. Emissions OOB NVNT 2-DH5 2480MHz

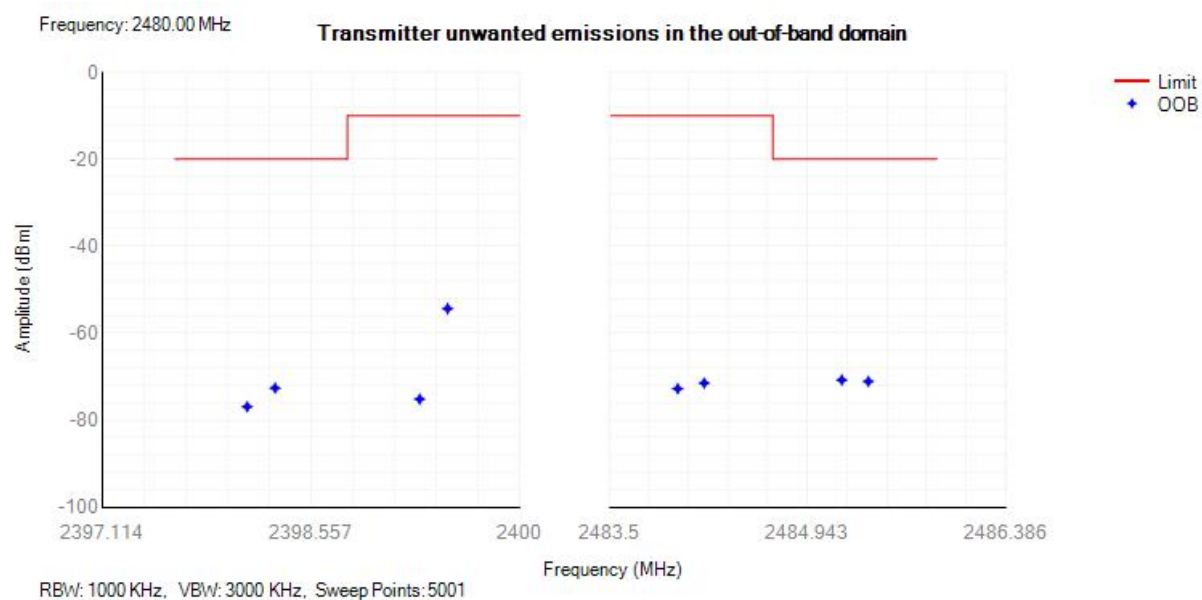




Tx. Emissions OOB NVNT 3-DH5 2402MHz



Tx. Emissions OOB NVNT 3-DH5 2480MHz



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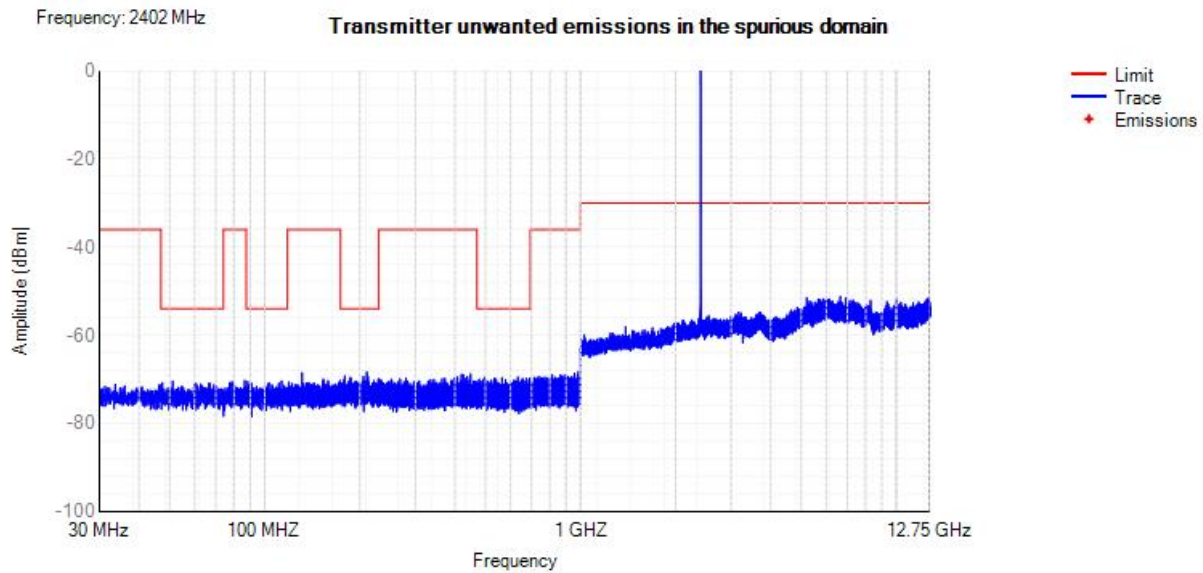
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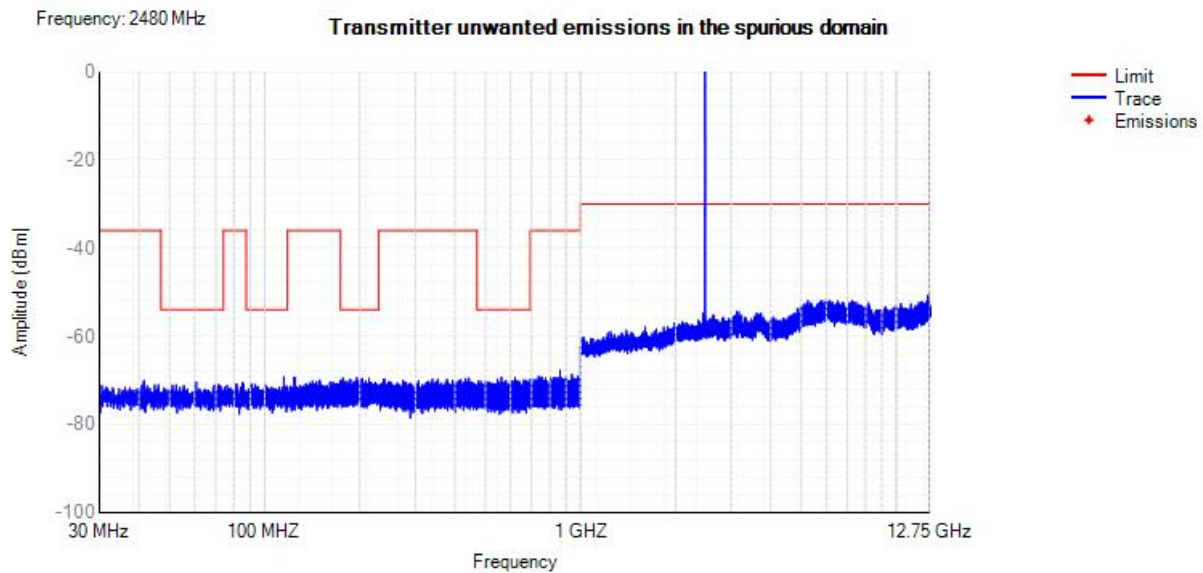
E.8 Transmitter unwanted emissions in the spurious domain

Condition	Mode	Frequency (MHz)	Range	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
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Tx. Spurious NVNT 1-DH5 2402MHz



Tx. Spurious NVNT 1-DH5 2480MHz



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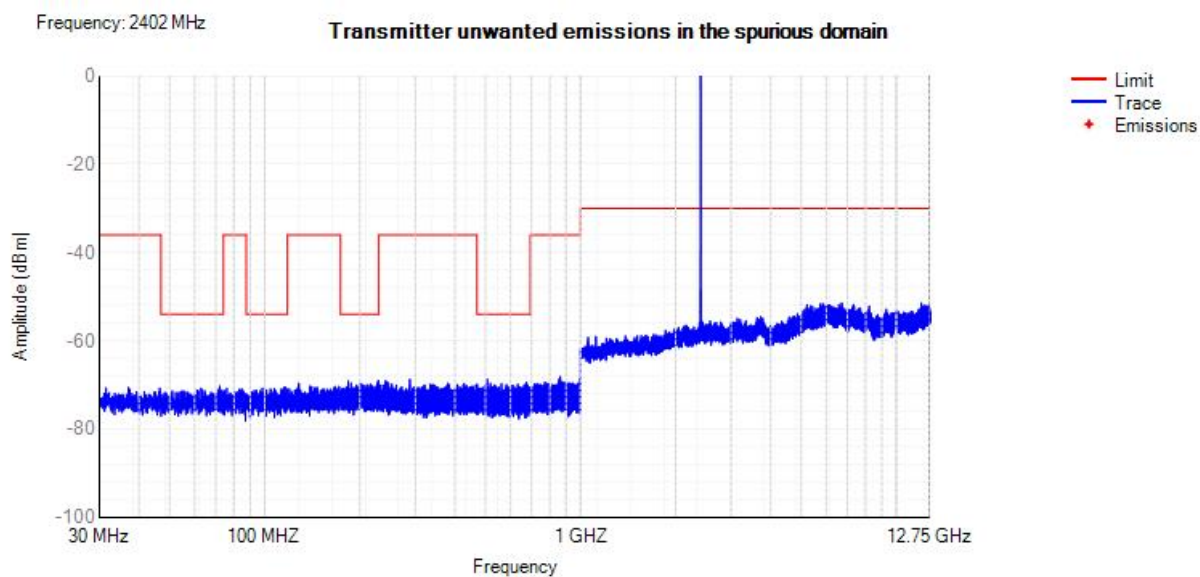
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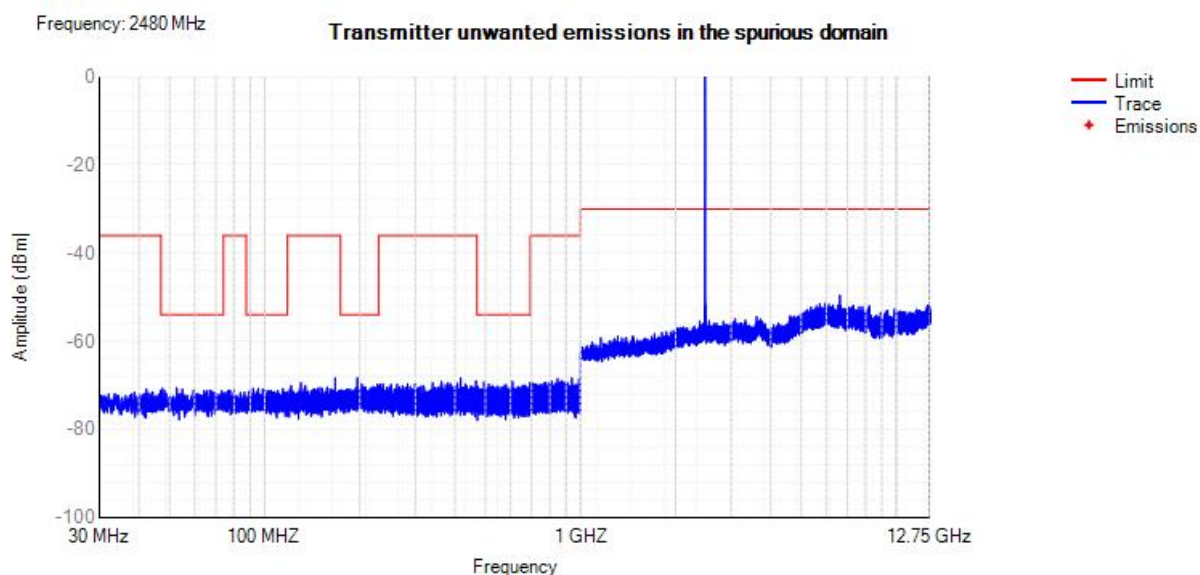
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Tx. Spurious NVNT 2-DH5 2402MHz



Tx. Spurious NVNT 2-DH5 2480MHz



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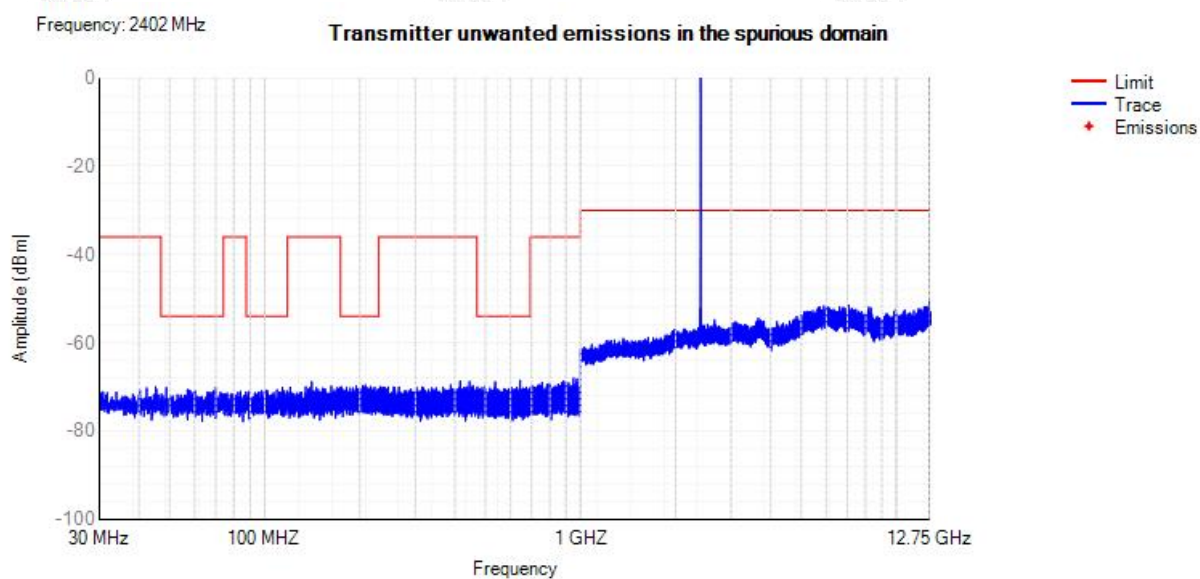
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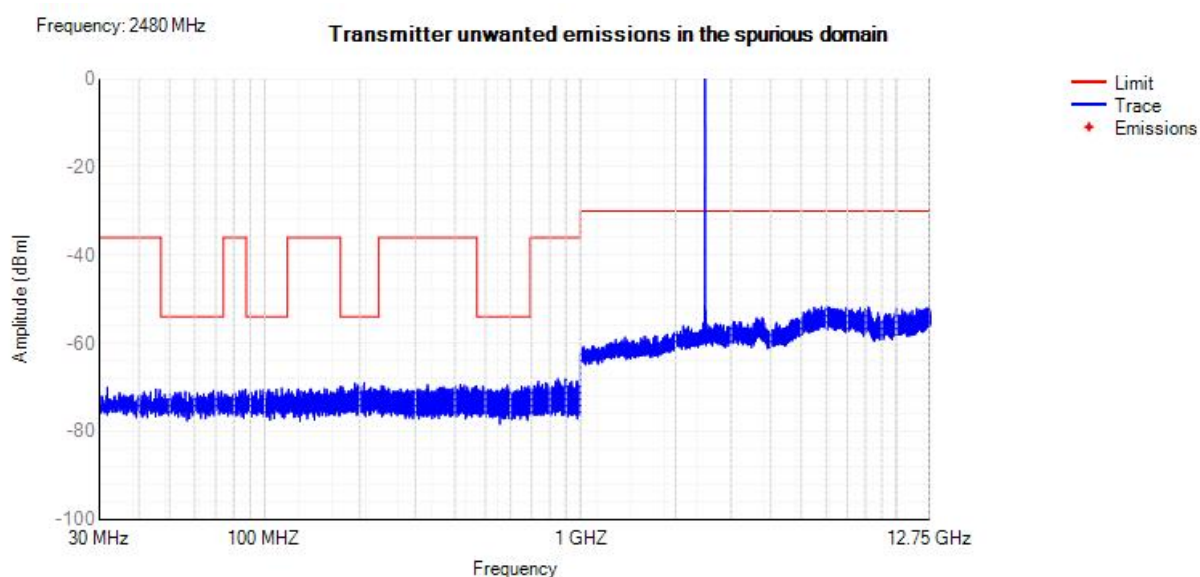
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2402MHz



Tx. Spurious NVNT 3-DH5 2480MHz



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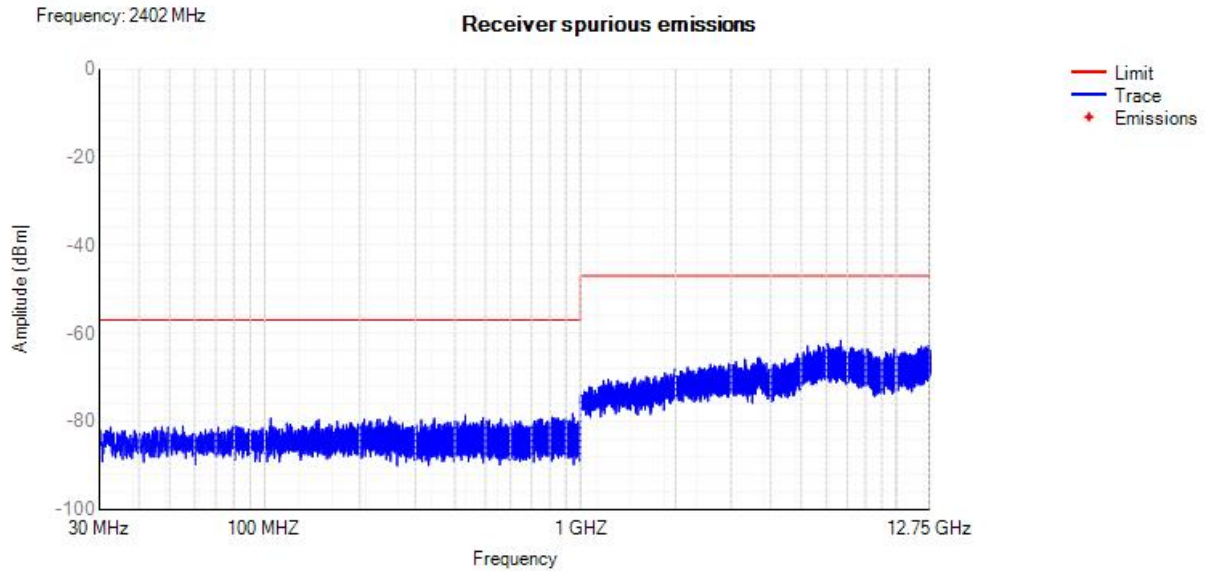
Scan code to check authenticity



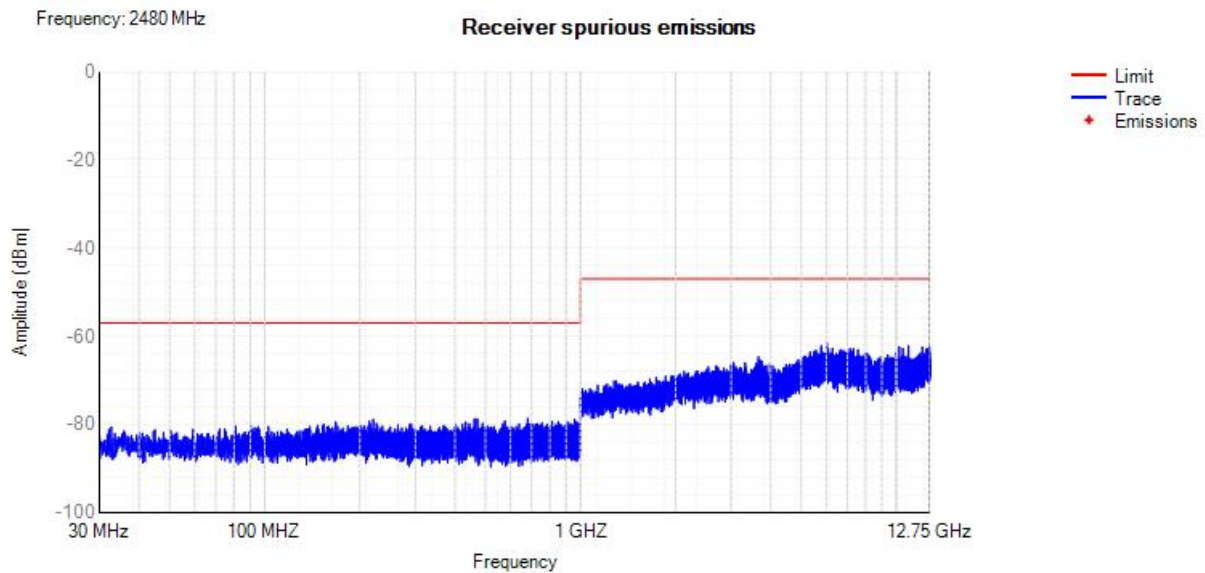
E.9 Receiver spurious emissions

Condition	Mode	Frequency (MHz)	Range	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
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Rx. Spurious NVNT 1-DH5 2402MHz

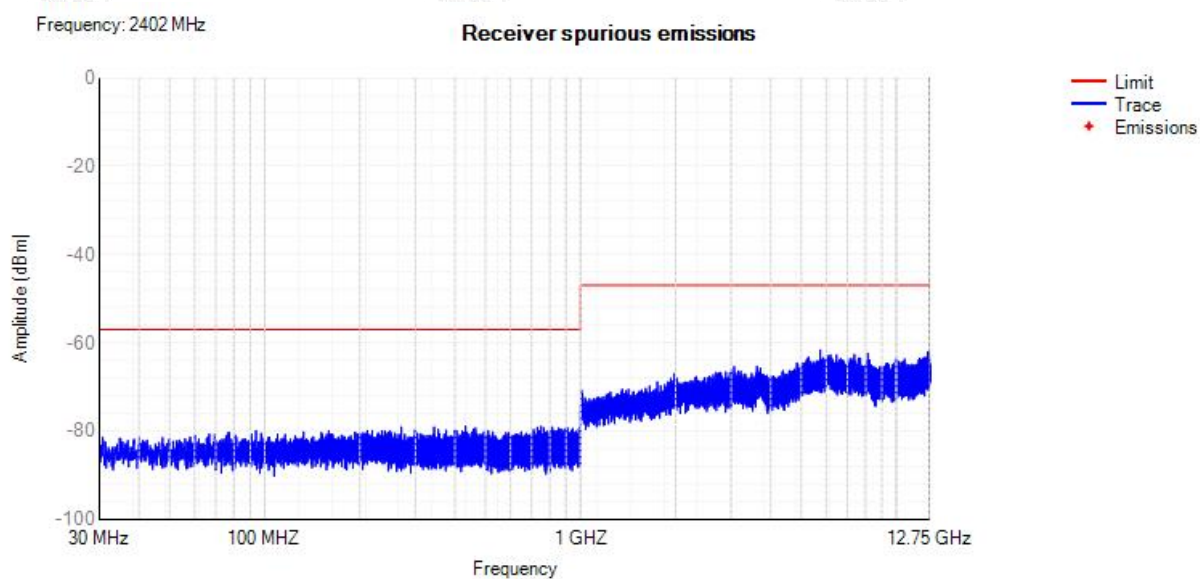


Rx. Spurious NVNT 1-DH5 2480MHz

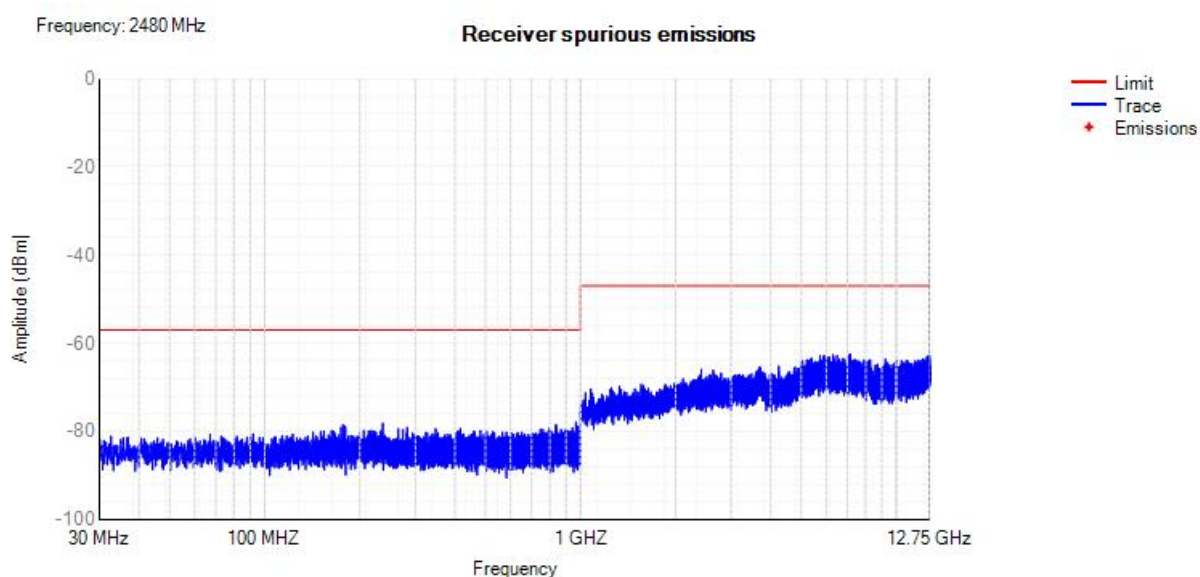




Rx. Spurious NVNT 2-DH5 2402MHz



Rx. Spurious NVNT 2-DH5 2480MHz



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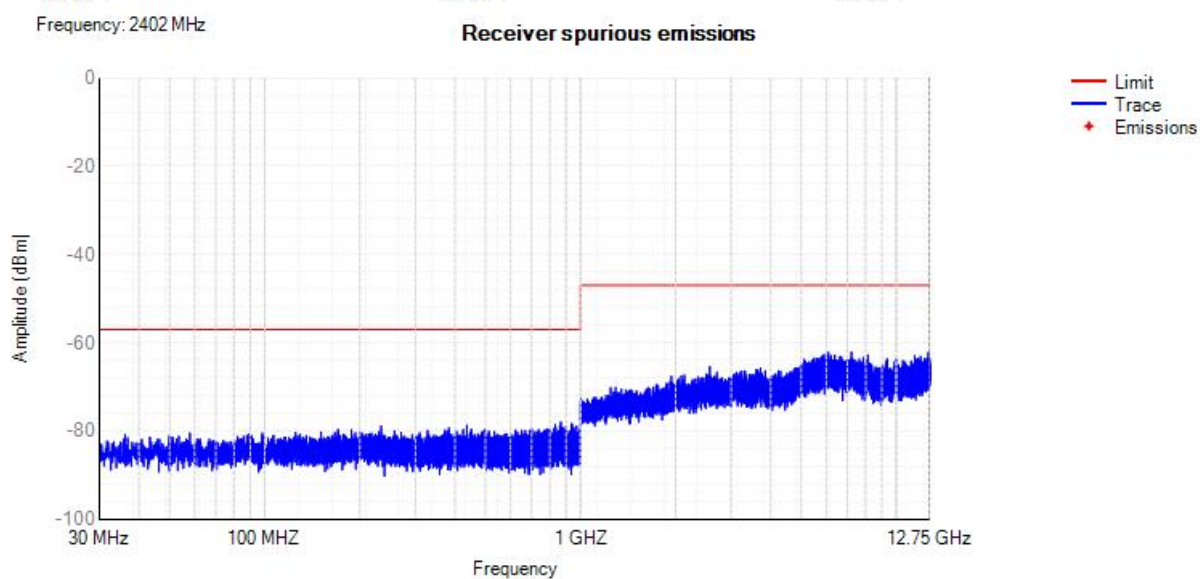
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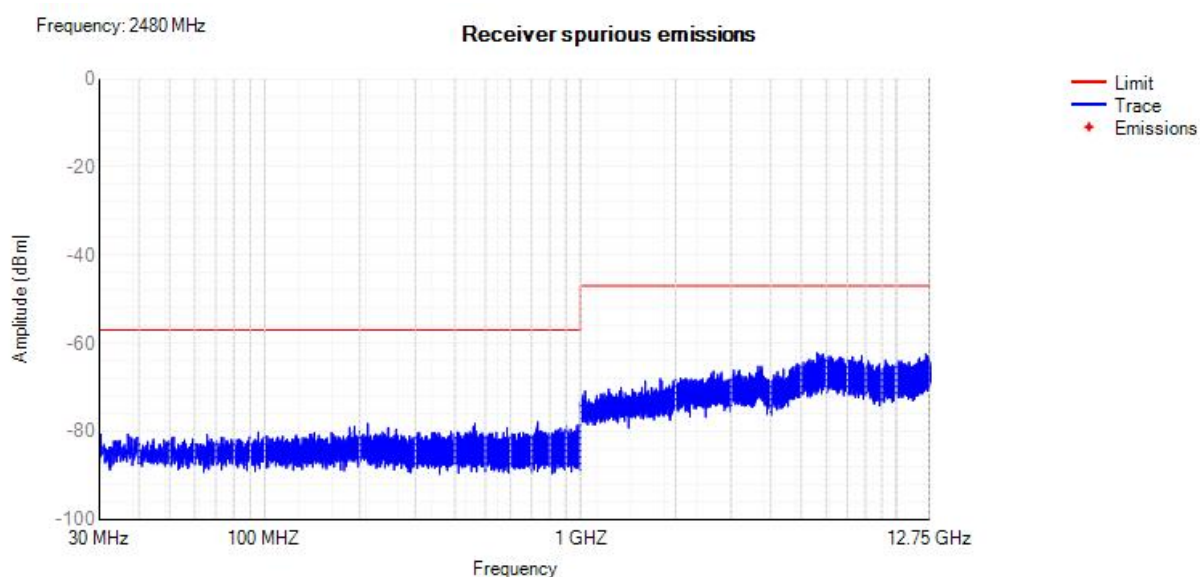
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Rx. Spurious NVNT 3-DH5 2402MHz



Rx. Spurious NVNT 3-DH5 2480MHz



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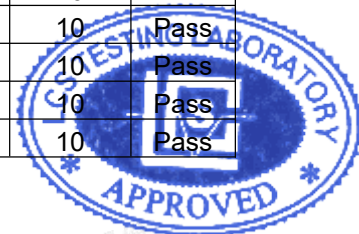
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E.10 Receiver Blocking

Test Mode	Test Channel (MHz)	Wanted Signal Mean Power from Companion Device (dBm)	Blocking Signal Frequency (MHz)	Blocking Signal Power (dBm)		Type of Blocking Signal	PER(%)		Test Result
				Test Value	Limit		Test Value	Limit	
DH5	2402	-70	2380	-27	≥ -34	CW	1.67	10	Pass
			2504	-21	≥ -34	CW	1.98	10	Pass
			2300	-26	≥ -34	CW	0.58	10	Pass
			2584	-23	≥ -34	CW	2.63	10	Pass
	2480	-70	2380	-29	≥ -34	CW	1.49	10	Pass
			2504	-25	≥ -34	CW	3.71	10	Pass
			2300	-28	≥ -34	CW	2.24	10	Pass
			2584	-20	≥ -34	CW	1.33	10	Pass
2DH5	2402	-68	2380	-21	≥ -34	CW	3.98	10	Pass
			2504	-21	≥ -34	CW	2.14	10	Pass
			2300	-29	≥ -34	CW	2.09	10	Pass
			2584	-26	≥ -34	CW	2.38	10	Pass
	2480	-68	2380	-22	≥ -34	CW	5.96	10	Pass
			2504	-28	≥ -34	CW	2.70	10	Pass
			2300	-24	≥ -34	CW	0.55	10	Pass
			2584	-21	≥ -34	CW	0.97	10	Pass
3DH5	2402	-68	2380	-22	≥ -34	CW	2.03	10	Pass
			2504	-23	≥ -34	CW	3.66	10	Pass
			2300	-25	≥ -34	CW	4.59	10	Pass
			2584	-25	≥ -34	CW	3.72	10	Pass
	2480	-68	2380	-30	≥ -34	CW	1.39	10	Pass
			2504	-26	≥ -34	CW	4.42	10	Pass
			2300	-21	≥ -34	CW	2.91	10	Pass
			2584	-24	≥ -34	CW	3.53	10	Pass



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