



Appendix E for BT Test Data

Product Name: Smartphone

Test Model: KINGKONG AX

Environmental Conditions

Temperature:	25.1° C
Relative Humidity:	52.4%
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	2.44	20	Pass
NVNT	1-DH5	2480	2.53	20	Pass
NVNT	2-DH5	2402	0.58	20	Pass
NVNT	2-DH5	2480	1.17	20	Pass
NVNT	3-DH5	2402	1.49	20	Pass
NVNT	3-DH5	2480	1.87	20	Pass

Condition	Mode	Frequency (MHz)	Max EIRP (dBm)	Limit (dBm)	Verdict
NVLT	1-DH5	2402	2.39	20	Pass
NVLT	1-DH5	2480	2.46	20	Pass
NVLT	2-DH5	2402	0.52	20	Pass
NVLT	2-DH5	2480	1.05	20	Pass
NVLT	3-DH5	2402	1.40	20	Pass
NVLT	3-DH5	2480	1.76	20	Pass

Condition	Mode	Frequency (MHz)	Max EIRP (dBm)	Limit (dBm)	Verdict
NVHT	1-DH5	2402	2.27	20	Pass
NVHT	1-DH5	2480	2.36	20	Pass
NVHT	2-DH5	2402	0.48	20	Pass
NVHT	2-DH5	2480	0.98	20	Pass
NVHT	3-DH5	2402	1.28	20	Pass
NVHT	3-DH5	2480	1.64	20	Pass

***Note: 20 bursts had been captured for power measurement.

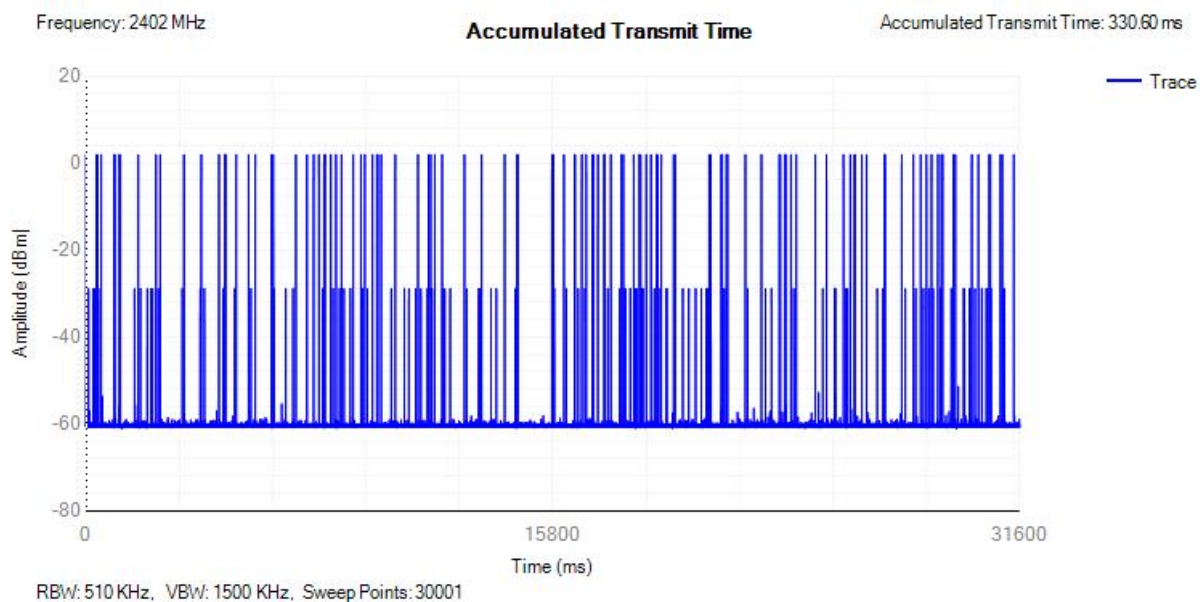




E.2 Accumulated Transmit Time

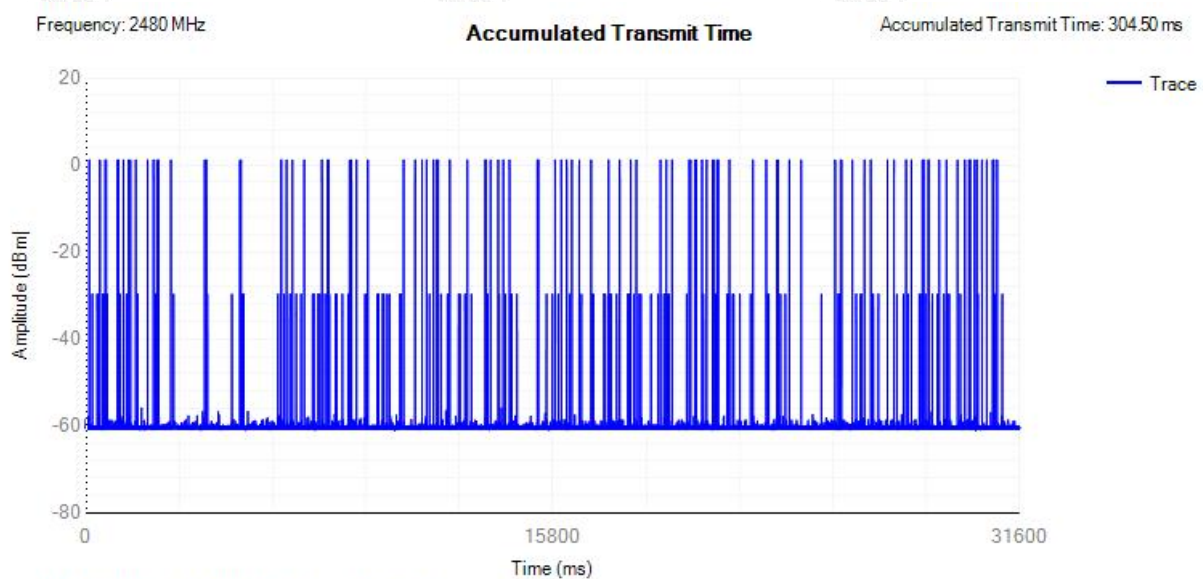
Condition	Mode	Frequency (MHz)	Accumulated Transmit Time (ms)	Limit (ms)	Sweep Time (ms)	Burst Number	Verdict
NVNT	1-DH5	2402	330.6	400	31600	114	Pass
NVNT	1-DH5	2480	304.5	400	31600	105	Pass
NVNT	2-DH5	2402	288.75	400	31600	105	Pass
NVNT	2-DH5	2480	275	400	31600	100	Pass
NVNT	3-DH5	2402	324.5	400	31600	118	Pass
NVNT	3-DH5	2480	286	400	31600	104	Pass

Dwell NVNT 1-DH5 2402MHz

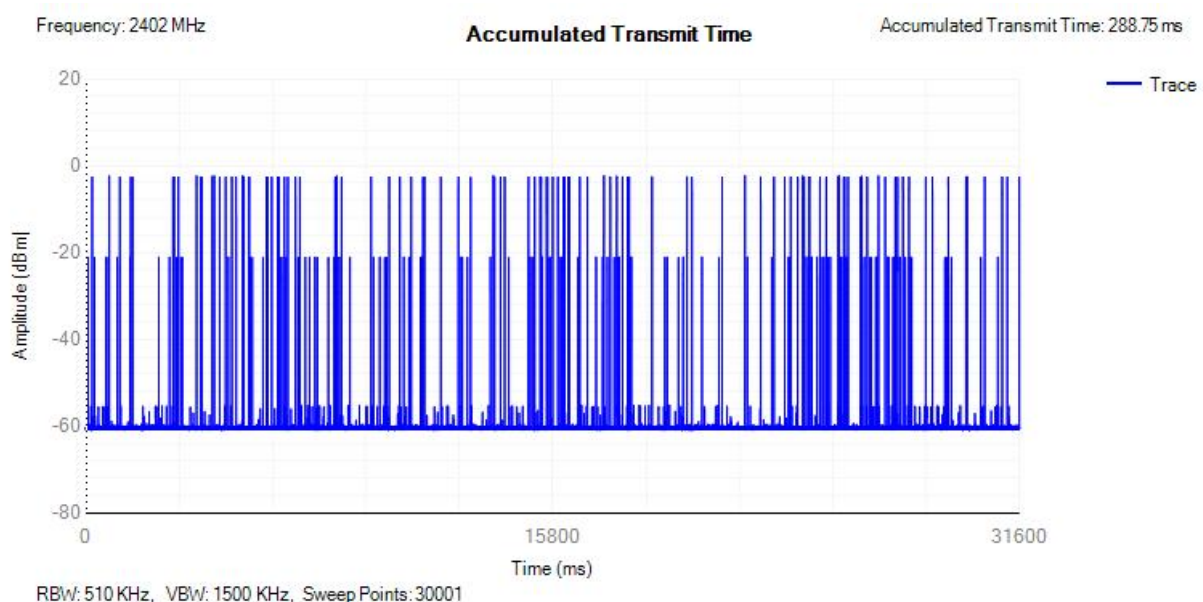




Dwell NVNT 1-DH5 2480MHz

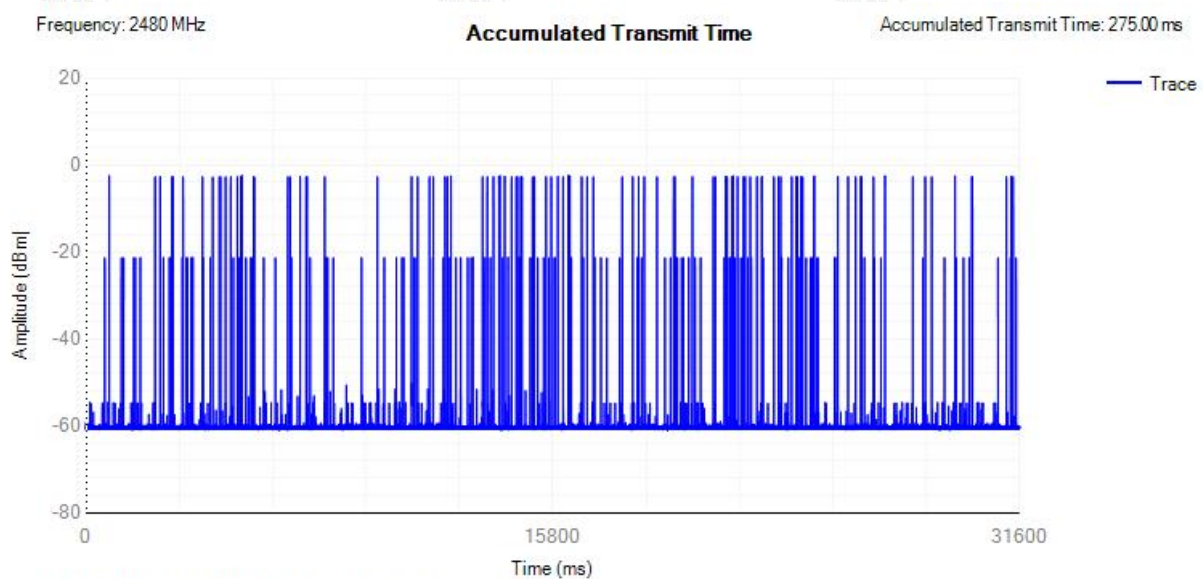


Dwell NVNT 2-DH5 2402MHz

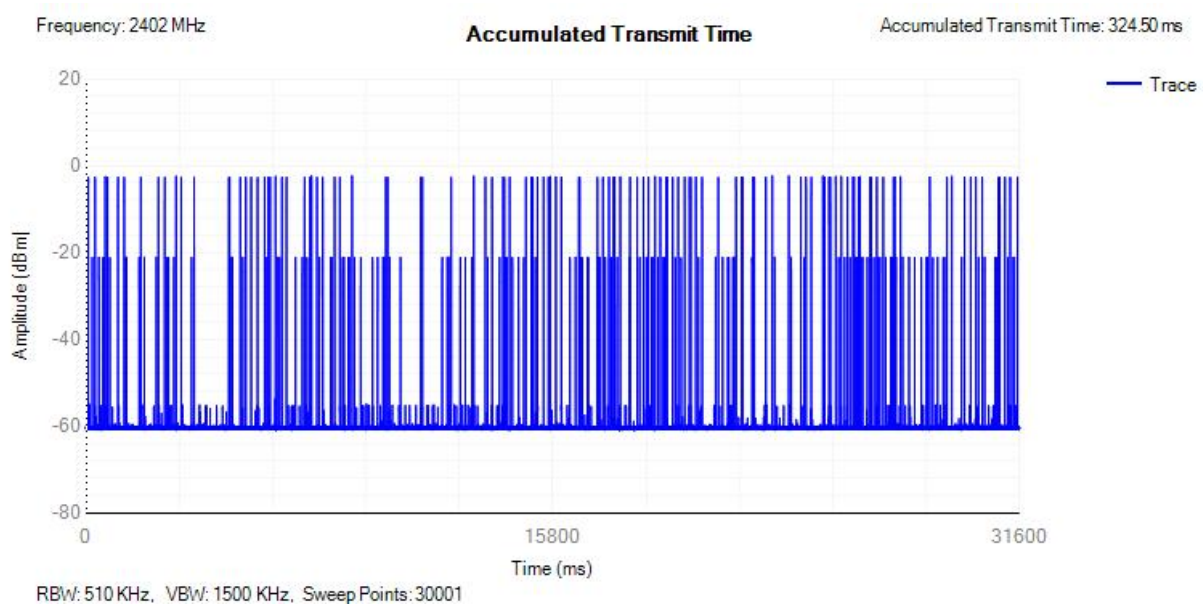




Dwell NVNT 2-DH5 2480MHz

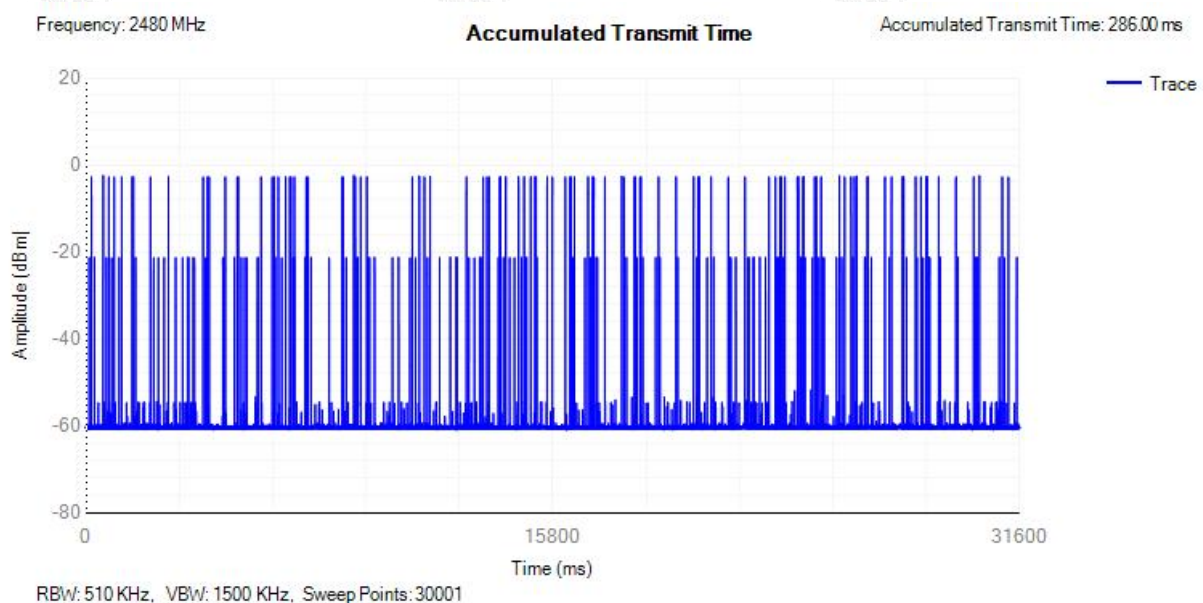


Dwell NVNT 3-DH5 2402MHz





Dwell NVNT 3-DH5 2480MHz

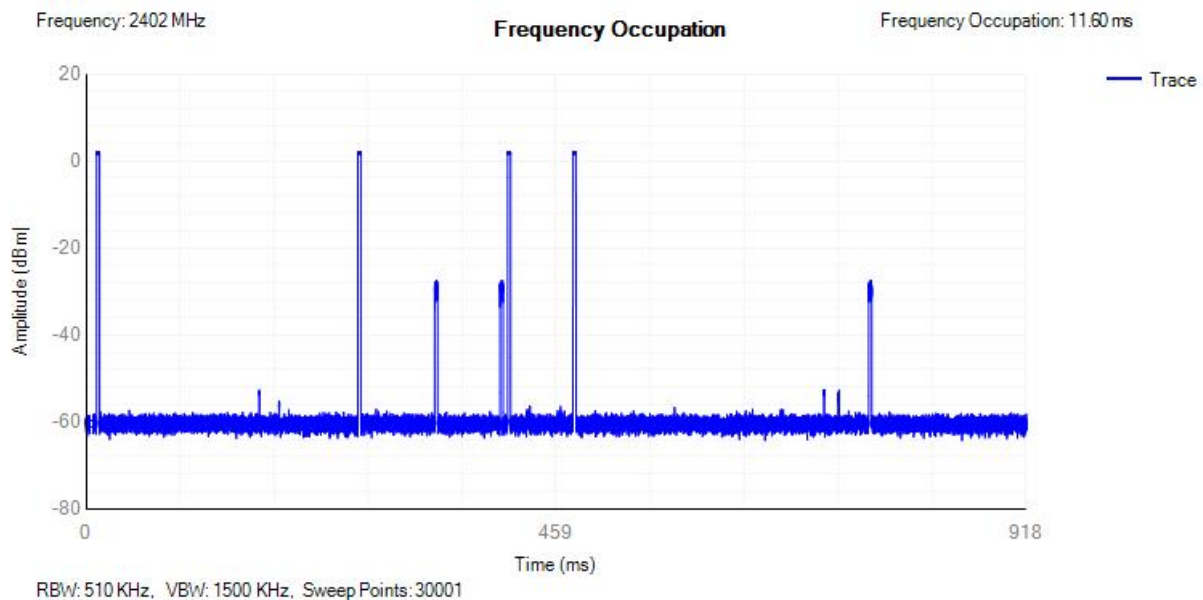




E.3 Frequency Occupation

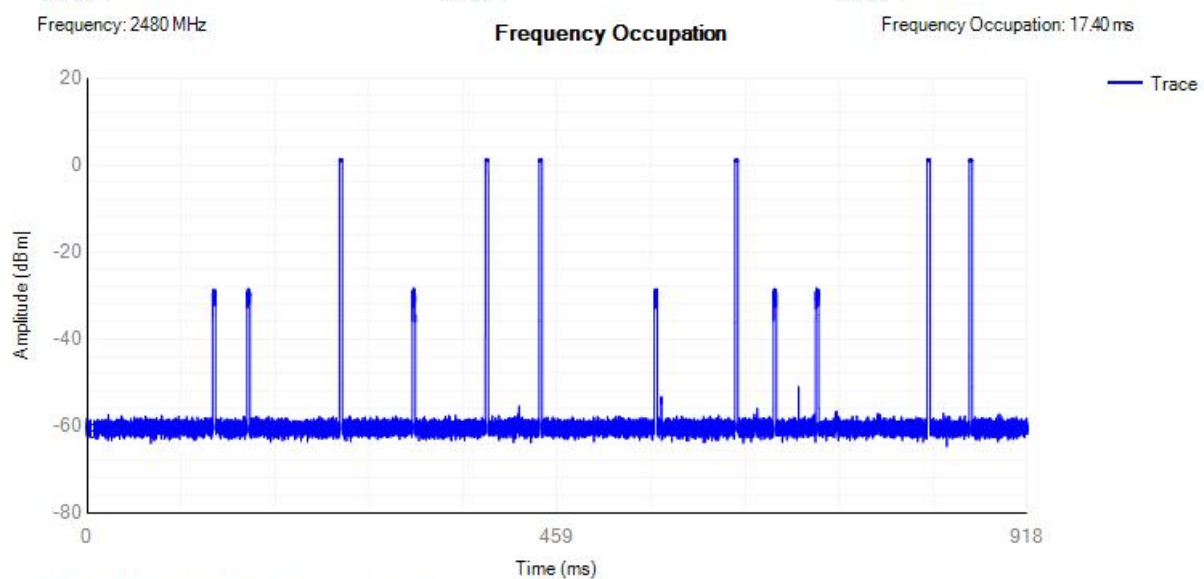
Condition	Mode	Frequency (MHz)	Frequency Occupation (ms)	Limit (ms)	Sweep Time (ms)	Burst Number	Verdict
NVNT	1-DH5	2402	11.6	0	916.4	4	Pass
NVNT	1-DH5	2480	17.4	0	916.4	6	Pass
NVNT	2-DH5	2402	5.5	0	869	2	Pass
NVNT	2-DH5	2480	16.5	0	869	6	Pass
NVNT	3-DH5	2402	13.75	0	869	5	Pass
NVNT	3-DH5	2480	13.75	0	869	5	Pass

Freq. Occup. NVNT 1-DH5 2402MHz

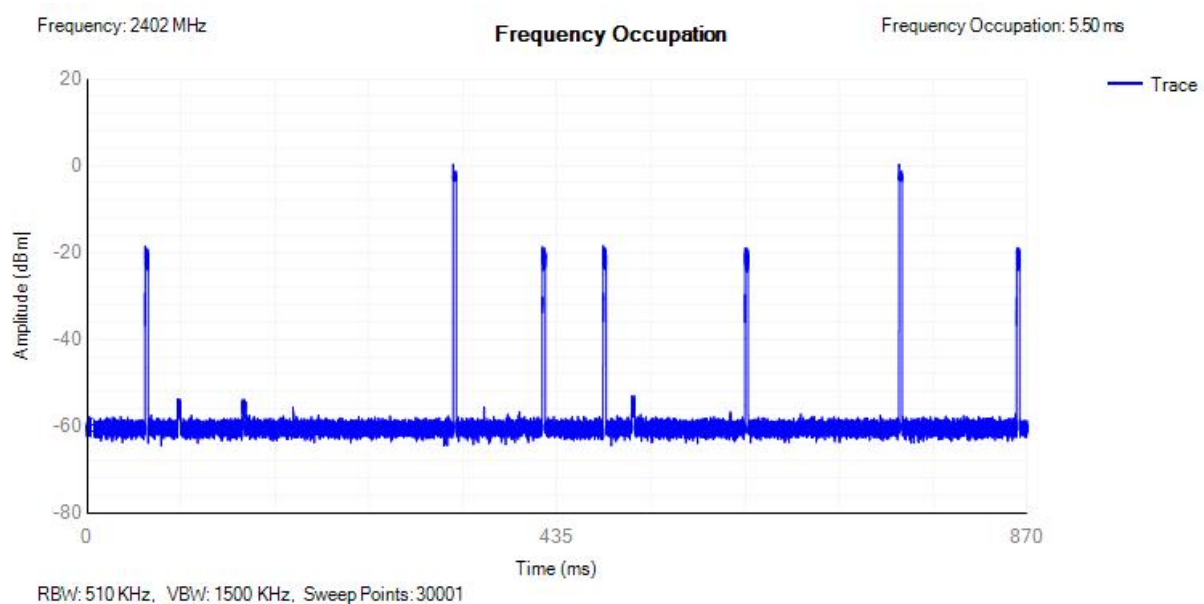




Freq. Occup. NVNT 1-DH5 2480MHz

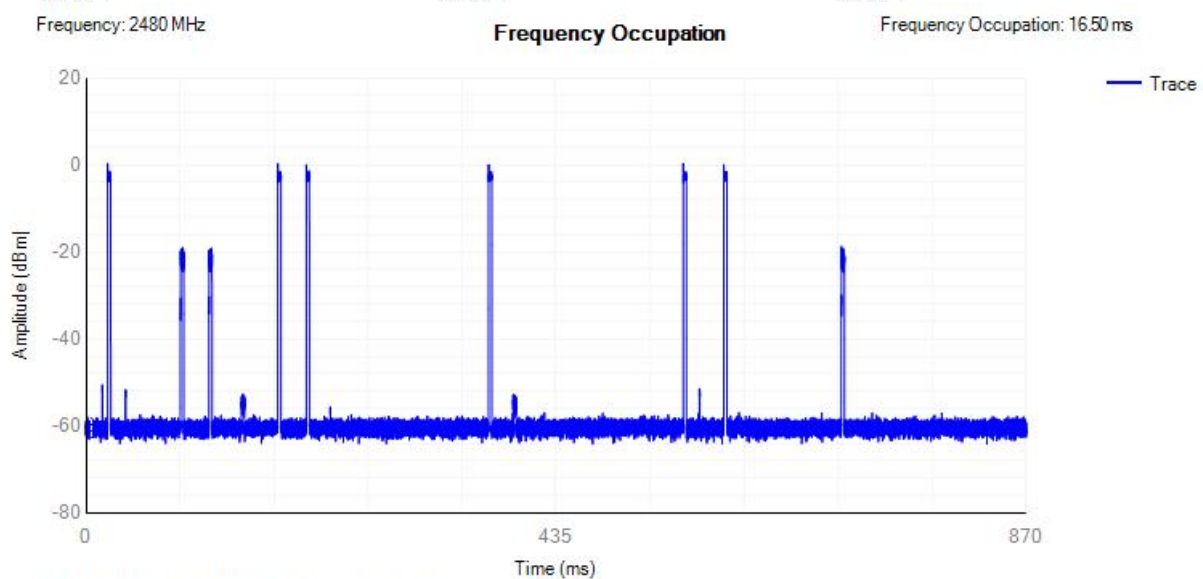


Freq. Occup. NVNT 2-DH5 2402MHz

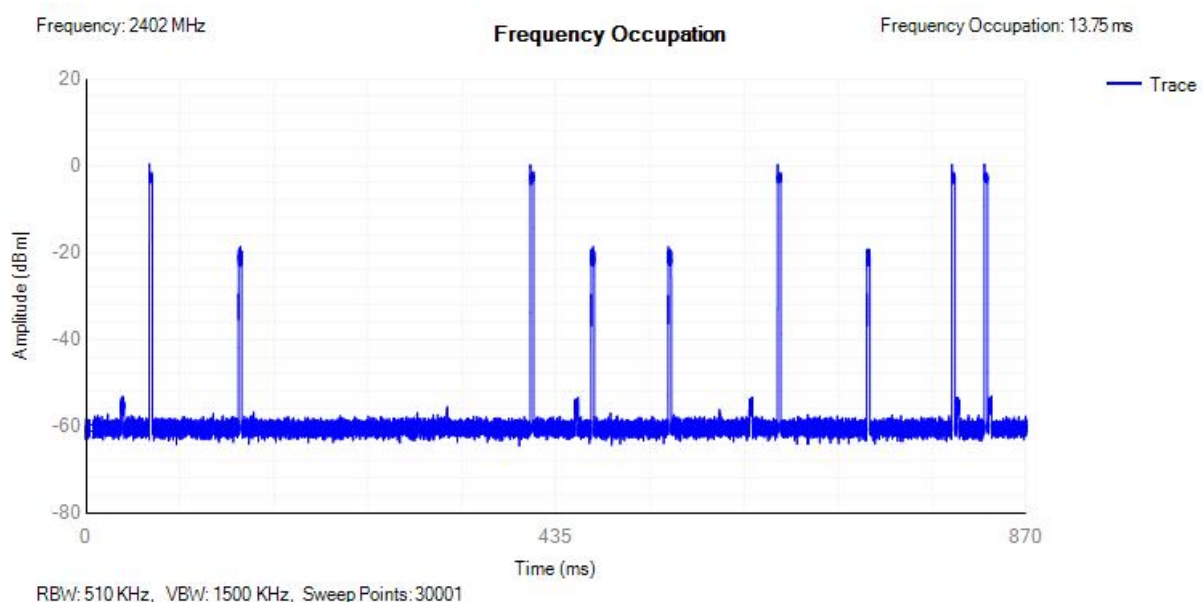




Freq. Occup. NVNT 2-DH5 2480MHz

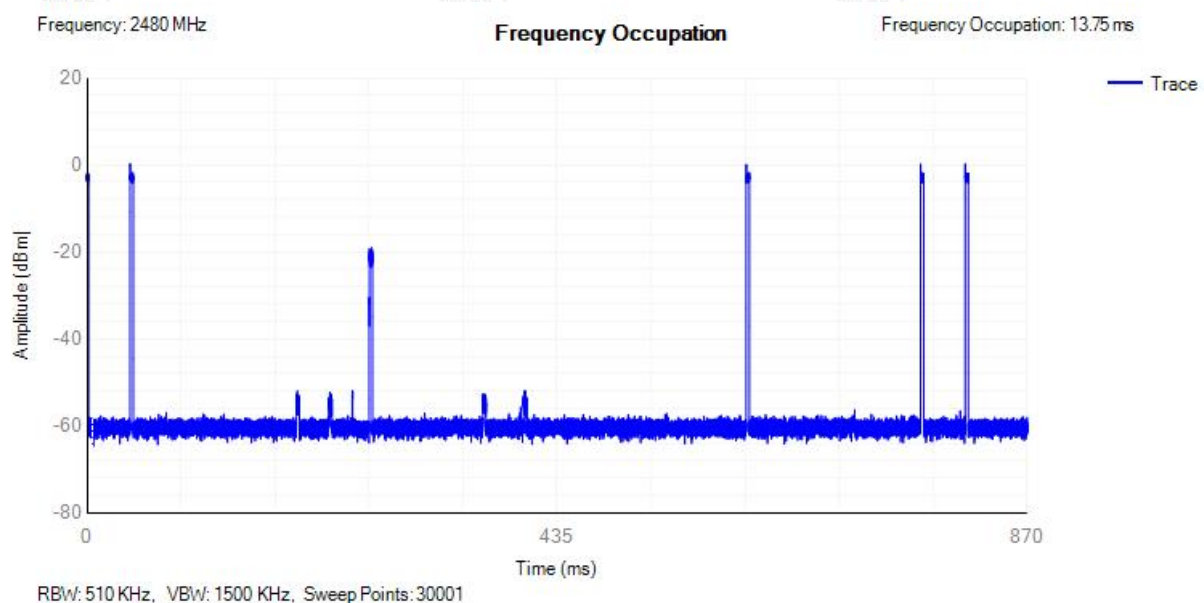


Freq. Occup. NVNT 3-DH5 2402MHz





Freq. Occup. NVNT 3-DH5 2480MHz

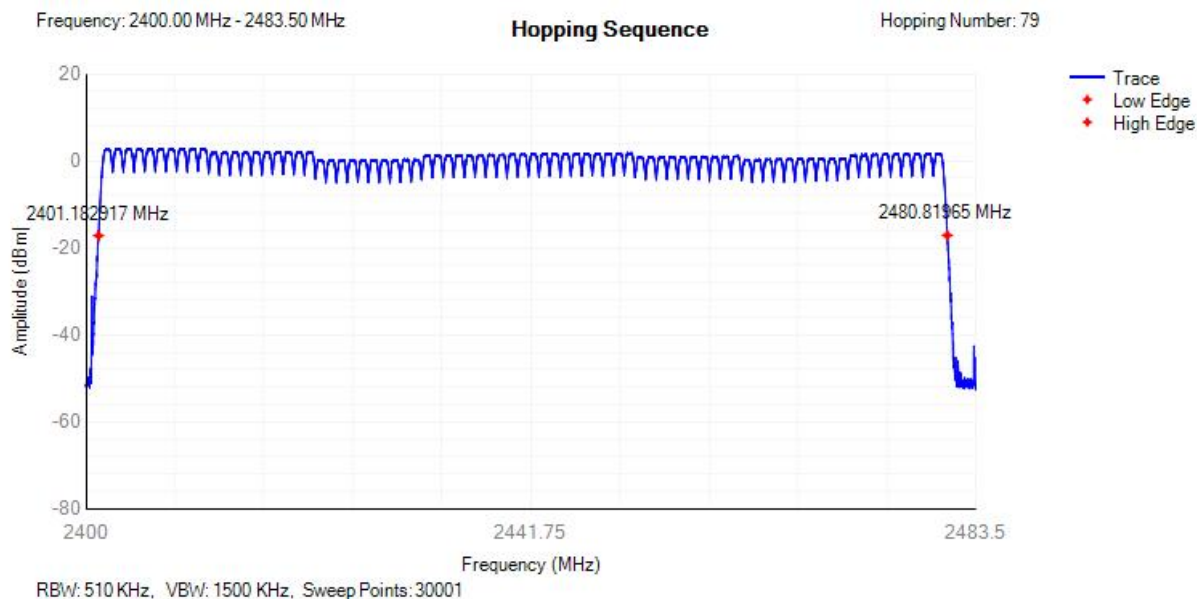




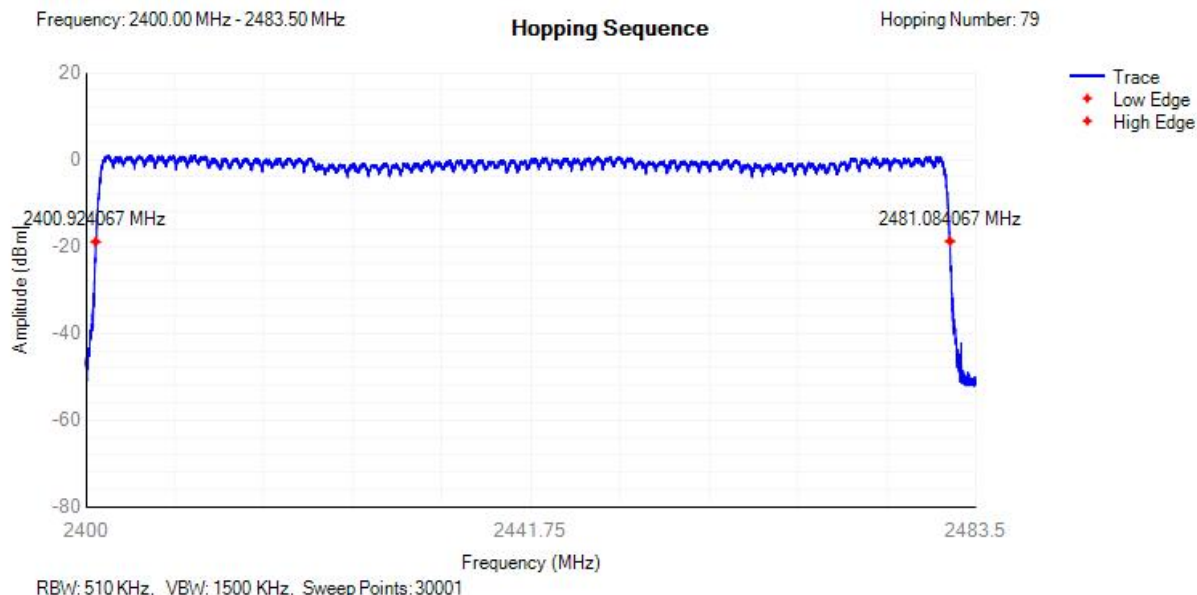
E.4 Hopping Sequence

Condition	Mode	Hopping Number	Limit	Band Allocation (%)	Limit Band Allocation (%)	Verdict
NVNT	1-DH5	79	15	95.37	70	Pass
NVNT	2-DH5	79	15	95.99	70	Pass
NVNT	3-DH5	79	15	95.91	70	Pass

Hopping Seq. NVNT 1-DH5 2402MHz

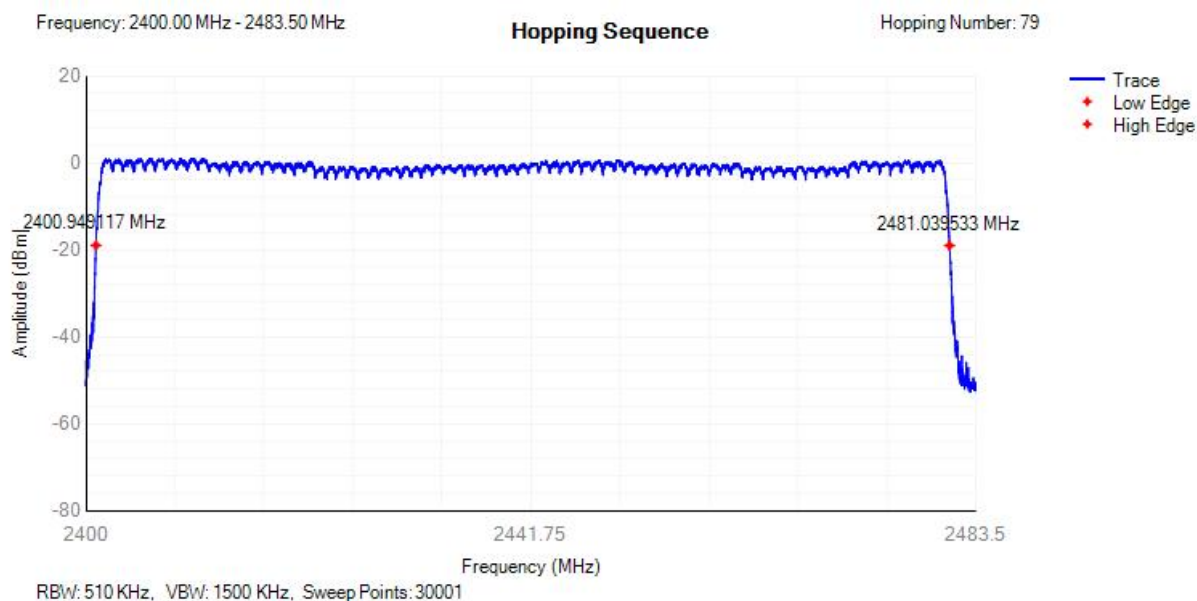


Hopping Seq. NVNT 2-DH5 2402MHz





Hopping Seq. NVNT 3-DH5 2402MHz

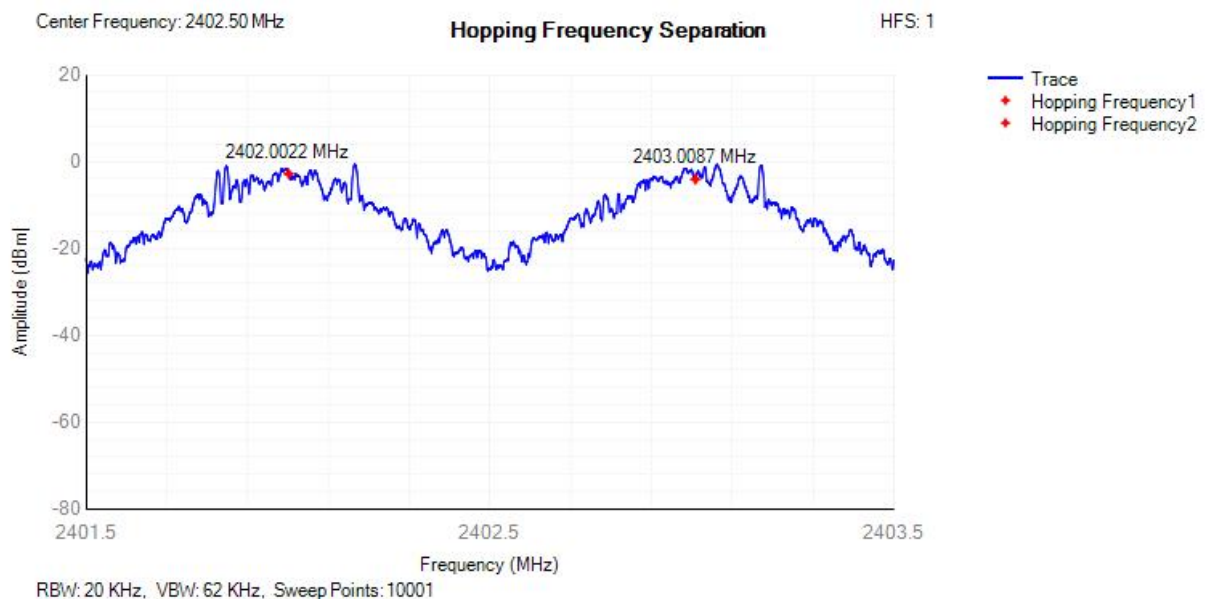




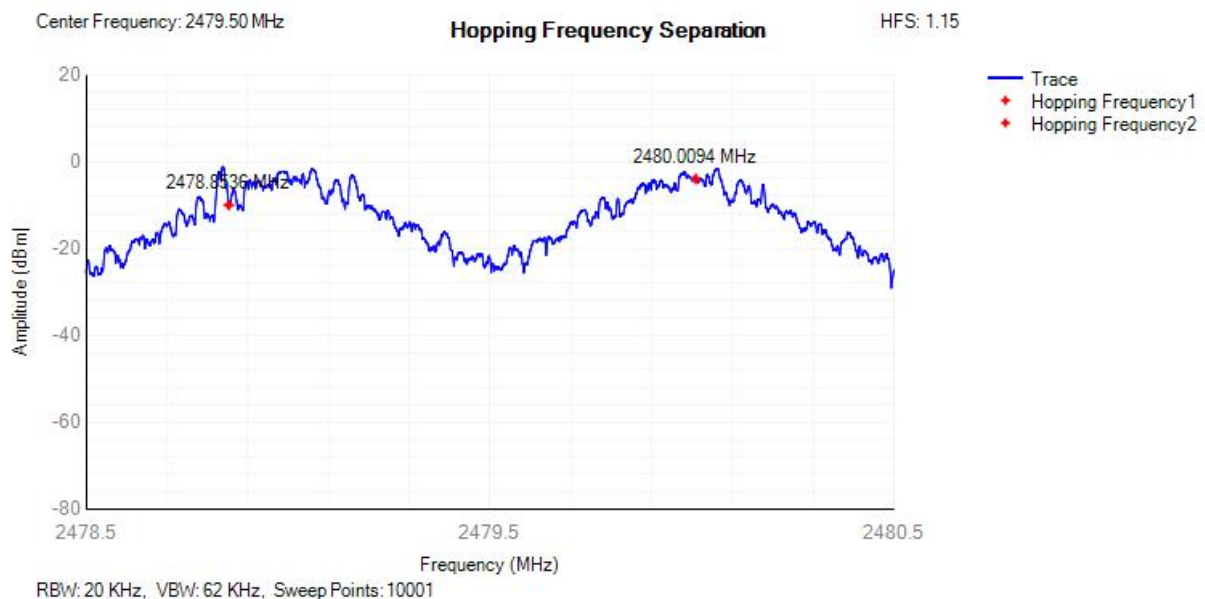
E.5 Hopping Frequency Separation

Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	2402.0022	2403.0087	1	0.1	Pass
NVNT	1-DH5	2478.8536	2480.0094	1.15	0.1	Pass
NVNT	2-DH5	2402.0092	2403.007	0.99	0.1	Pass
NVNT	2-DH5	2479.0033	2480.2009	1.19	0.1	Pass
NVNT	3-DH5	2402.1655	2403.0474	0.88	0.1	Pass
NVNT	3-DH5	2479.0487	2480.0894	1.04	0.1	Pass

HFS NVNT 1-DH5 2402MHz



HFS NVNT 1-DH5 2480MHz



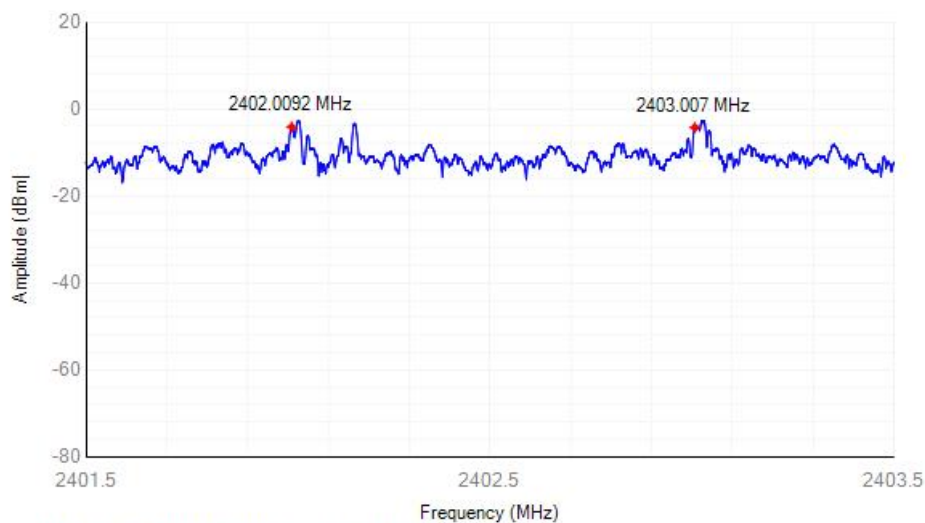


HFS NVNT 2-DH5 2402MHz

Center Frequency: 2402.50 MHz

Hopping Frequency Separation

HFS: 0.99



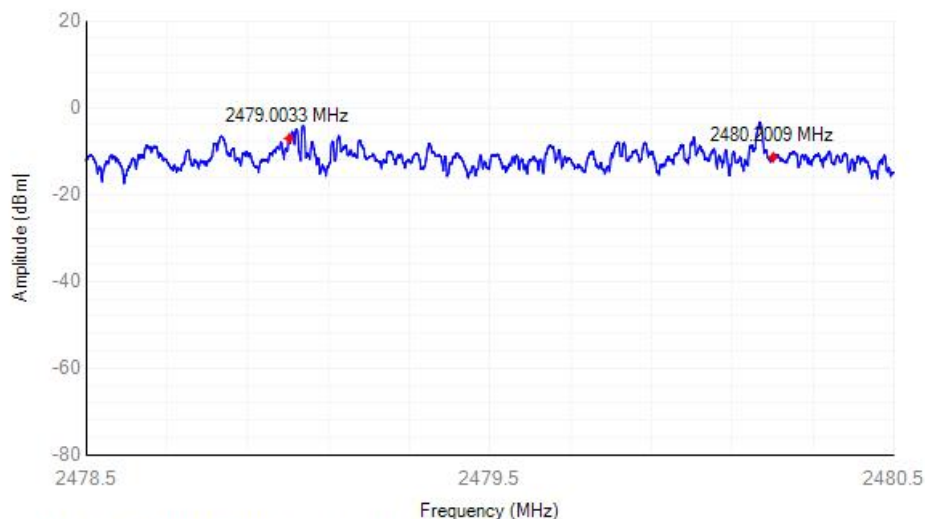
Trace
+ Hopping Frequency1
+ Hopping Frequency2

HFS NVNT 2-DH5 2480MHz

Center Frequency: 2479.50 MHz

Hopping Frequency Separation

HFS: 1.19



Trace
+ Hopping Frequency1
+ Hopping Frequency2



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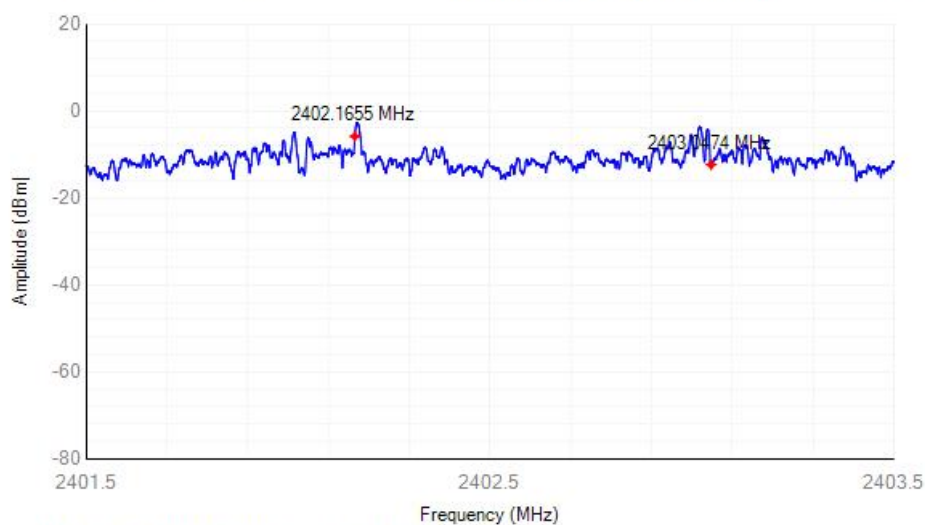


HFS NVNT 3-DH5 2402MHz

Center Frequency: 2402.50 MHz

Hopping Frequency Separation

HFS: 0.88

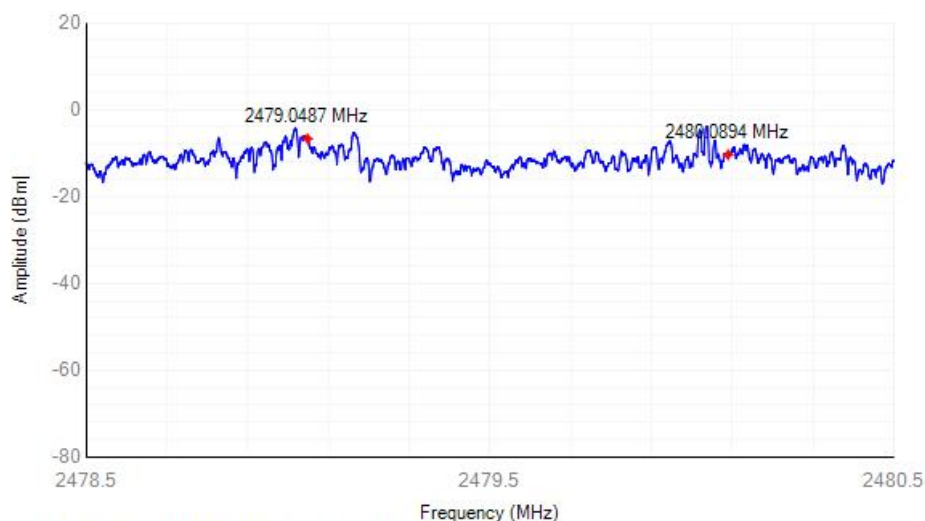


HFS NVNT 3-DH5 2480MHz

Center Frequency: 2479.50 MHz

Hopping Frequency Separation

HFS: 1.04

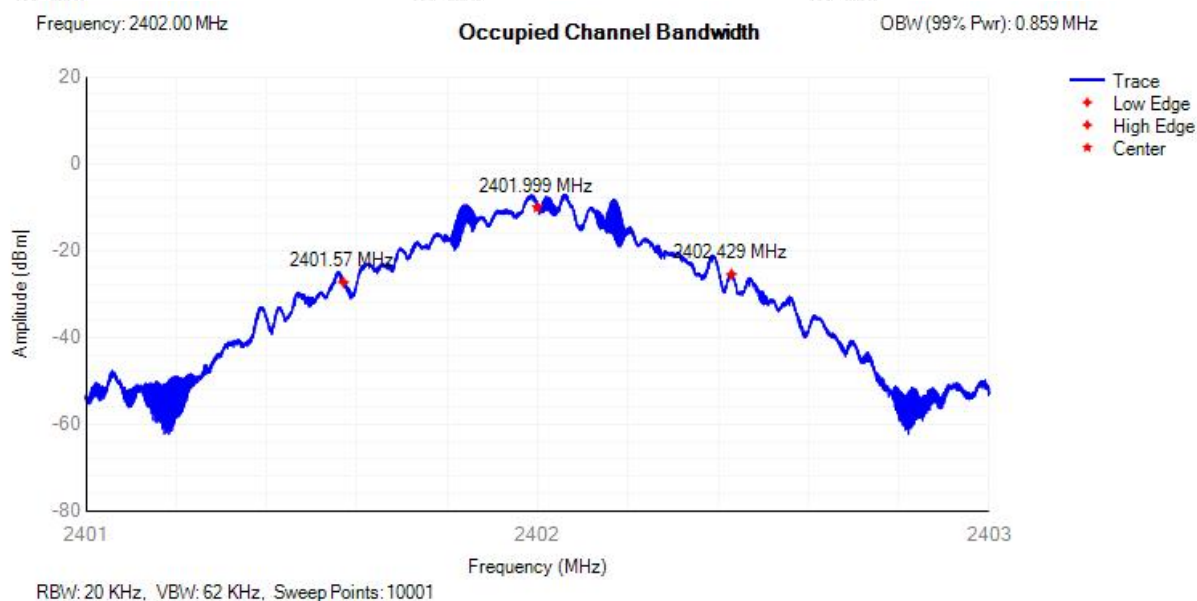




E.6 Occupied Channel Bandwidth

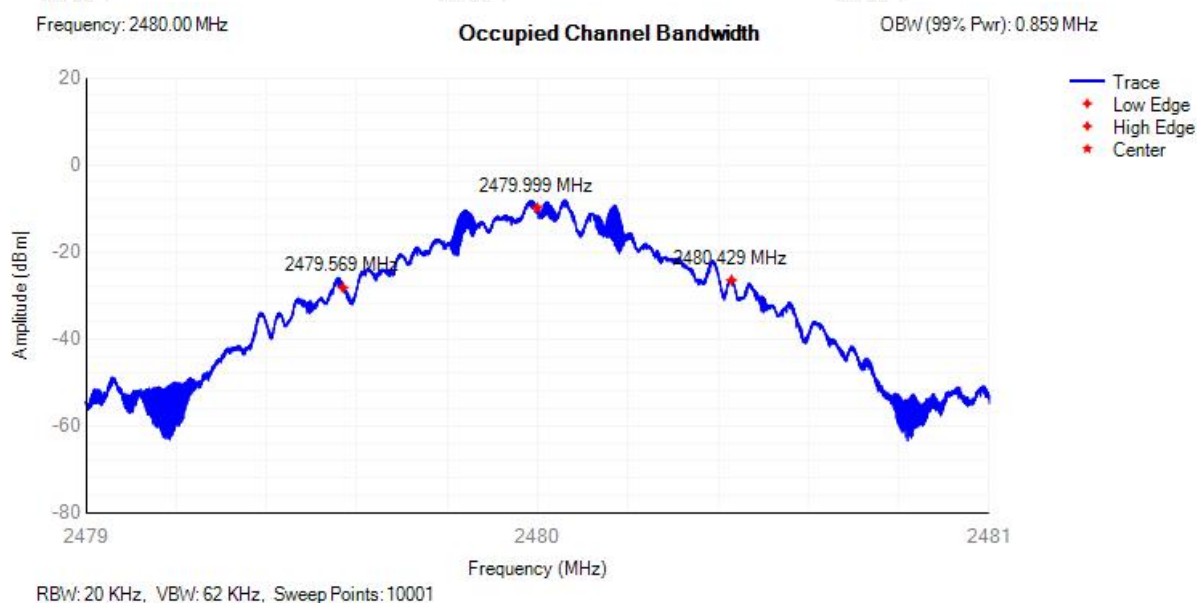
Condition	Mode	Frequency (MHz)	Center Frequency (MHz)	OBW (MHz)	Lower Edge (MHz)	Upper Edge (MHz)	Limit OBW (MHz)	Verdict
NVNT	1-DH5	2402	2401.999	0.859	2401.57	2402.429	2400 - 2483.5MHz	Pass
NVNT	1-DH5	2480	2479.999	0.859	2479.569	2480.429	2400 - 2483.5MHz	Pass
NVNT	2-DH5	2402	2402	1.179	2401.41	2402.59	2400 - 2483.5MHz	Pass
NVNT	2-DH5	2480	2480	1.18	2479.409	2480.59	2400 - 2483.5MHz	Pass
NVNT	3-DH5	2402	2401.997	1.192	2401.4	2402.593	2400 - 2483.5MHz	Pass
NVNT	3-DH5	2480	2479.997	1.192	2479.401	2480.593	2400 - 2483.5MHz	Pass

OBW NVNT 1-DH5 2402MHz

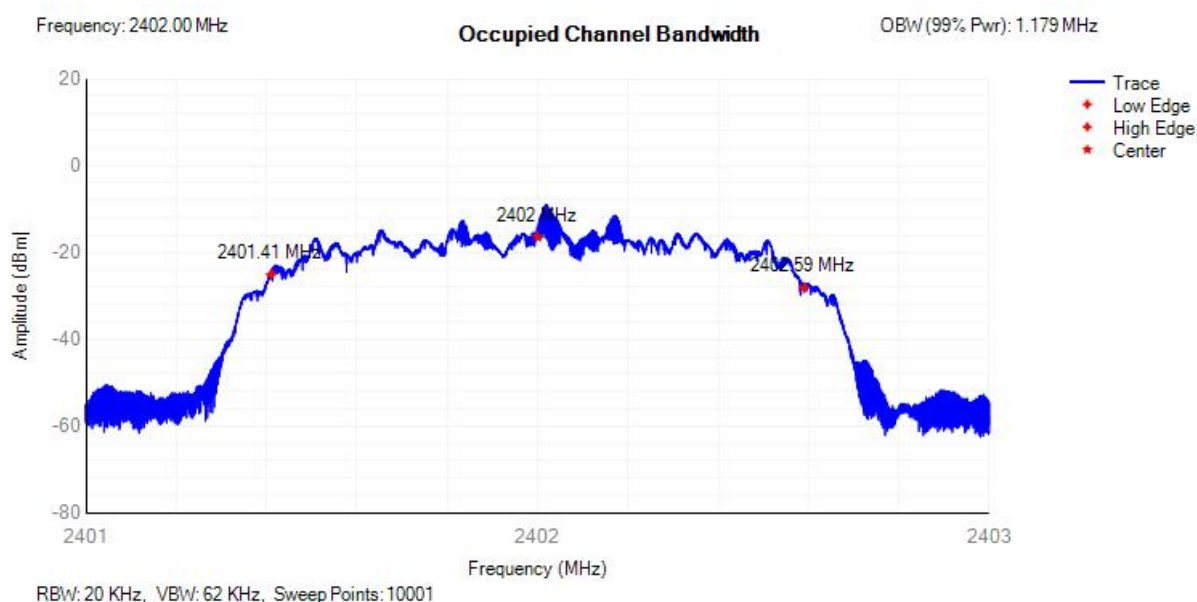




OBW NVNT 1-DH5 2480MHz



OBW NVNT 2-DH5 2402MHz



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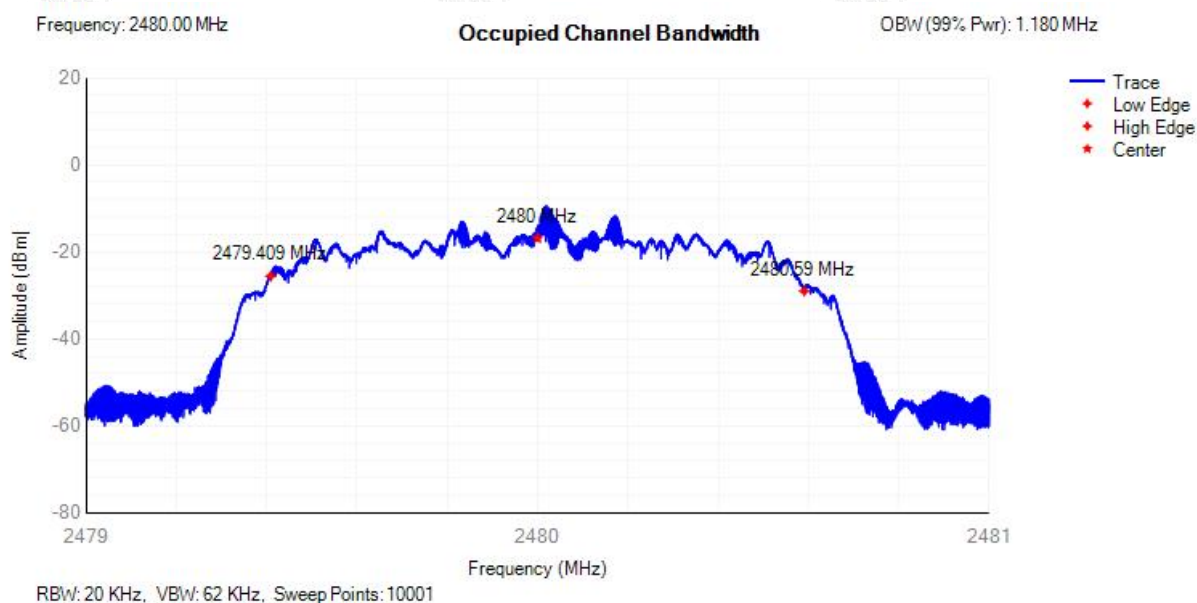
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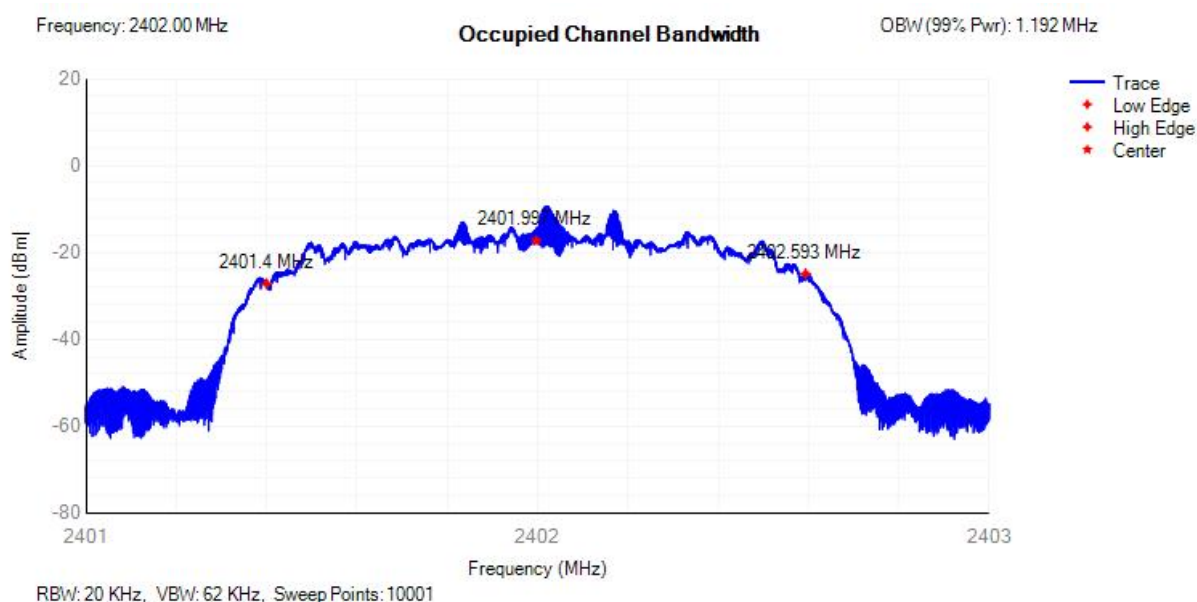
Scan code to check authenticity



OBW NVNT 2-DH5 2480MHz



OBW NVNT 3-DH5 2402MHz



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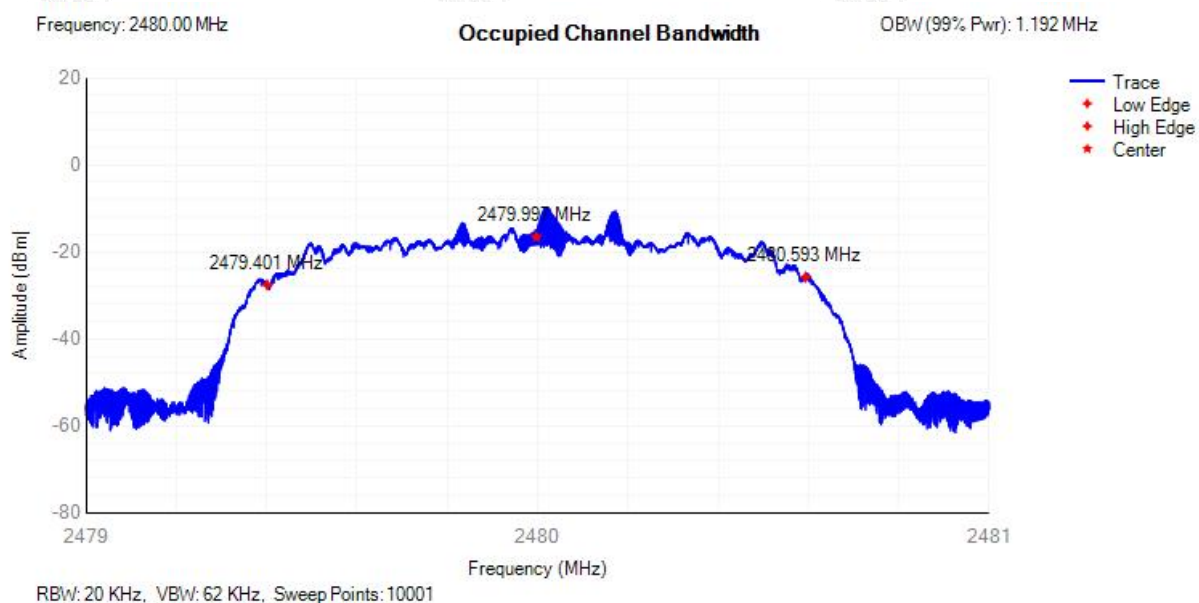
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E.7 Transmitter unwanted emissions in the out-of-band domain

Condition	Mode	Frequency (MHz)	OOB Frequency (MHz)	Level (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	1-DH5	2402	2399.5	-74.72	-10	Pass
NVNT	1-DH5	2402	2398.5	-76.48	-20	Pass
NVNT	1-DH5	2402	2484	-76.5	-10	Pass
NVNT	1-DH5	2402	2485	-71.75	-20	Pass
NVNT	1-DH5	2480	2399.5	-75.05	-10	Pass
NVNT	1-DH5	2480	2398.5	-76.49	-20	Pass
NVNT	1-DH5	2480	2484	-76.1	-10	Pass
NVNT	1-DH5	2480	2485	-76.31	-20	Pass
NVNT	2-DH5	2402	2399.5	-56.66	-10	Pass
NVNT	2-DH5	2402	2399.321	-71.07	-10	Pass
NVNT	2-DH5	2402	2398.321	-75.97	-20	Pass
NVNT	2-DH5	2402	2398.142	-68.19	-20	Pass
NVNT	2-DH5	2402	2484	-77.07	-10	Pass
NVNT	2-DH5	2402	2484.18	-70.72	-10	Pass
NVNT	2-DH5	2402	2485.18	-76.5	-20	Pass
NVNT	2-DH5	2402	2485.36	-74.39	-20	Pass
NVNT	2-DH5	2480	2399.5	-75.55	-10	Pass
NVNT	2-DH5	2480	2399.321	-58.79	-10	Pass
NVNT	2-DH5	2480	2398.321	-76.8	-20	Pass
NVNT	2-DH5	2480	2398.142	-68.71	-20	Pass
NVNT	2-DH5	2480	2484	-73.76	-10	Pass
NVNT	2-DH5	2480	2484.18	-71.56	-10	Pass
NVNT	2-DH5	2480	2485.18	-75.67	-20	Pass
NVNT	2-DH5	2480	2485.36	-70.53	-20	Pass
NVNT	3-DH5	2402	2399.5	-75.56	-10	Pass
NVNT	3-DH5	2402	2399.308	-58.8	-10	Pass
NVNT	3-DH5	2402	2398.308	-69.09	-20	Pass
NVNT	3-DH5	2402	2398.116	-75.13	-20	Pass
NVNT	3-DH5	2402	2484	-75.74	-10	Pass
NVNT	3-DH5	2402	2484.192	-69.12	-10	Pass
NVNT	3-DH5	2402	2485.192	-76.81	-20	Pass
NVNT	3-DH5	2402	2485.384	-73.72	-20	Pass
NVNT	3-DH5	2480	2399.5	-74.02	-10	Pass
NVNT	3-DH5	2480	2399.308	-73.76	-10	Pass
NVNT	3-DH5	2480	2398.308	-73.86	-20	Pass
NVNT	3-DH5	2480	2398.116	-74.25	-20	Pass



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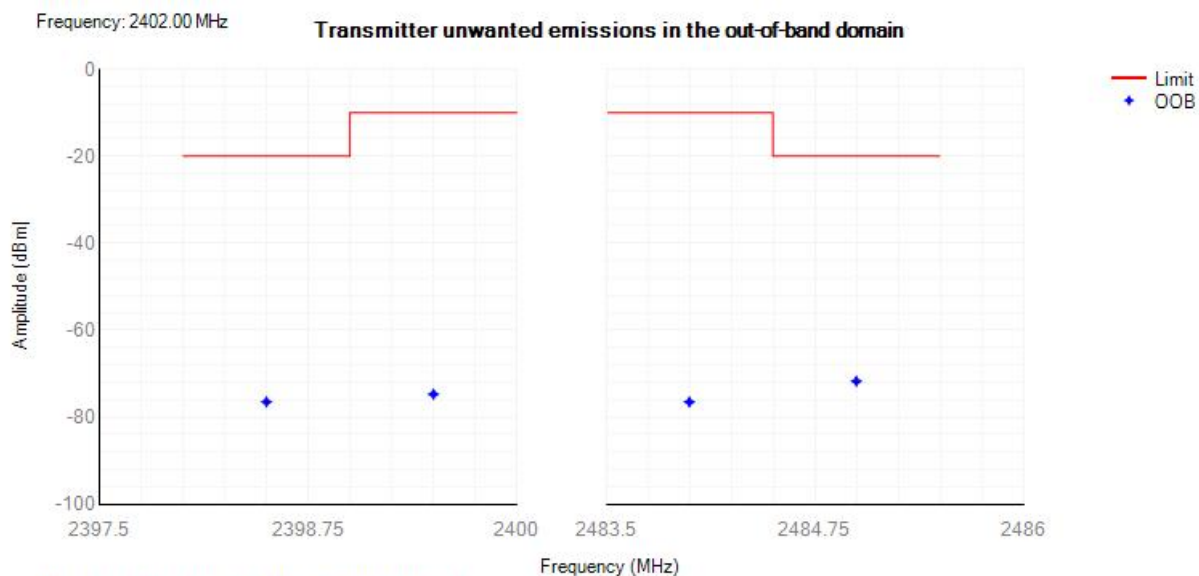
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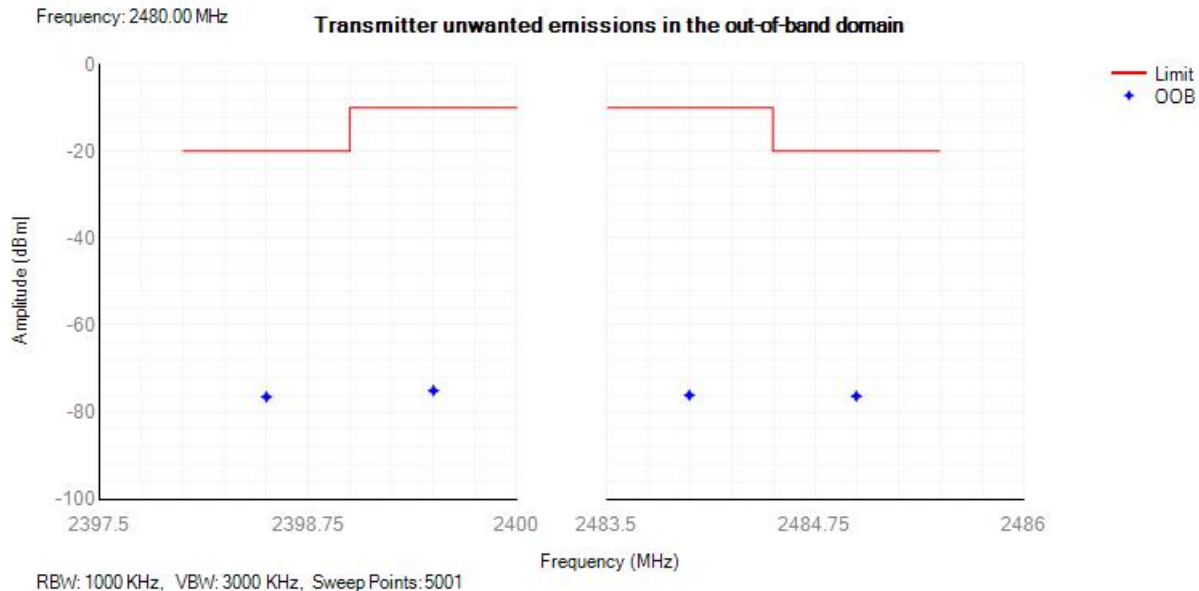


NVNT	3-DH5	2480	2484	-76.26	-10	Pass
NVNT	3-DH5	2480	2484.192	-76.54	-10	Pass
NVNT	3-DH5	2480	2485.192	-72.25	-20	Pass
NVNT	3-DH5	2480	2485.384	-70.18	-20	Pass

Tx. Emissions OOB NVNT 1-DH5 2402MHz

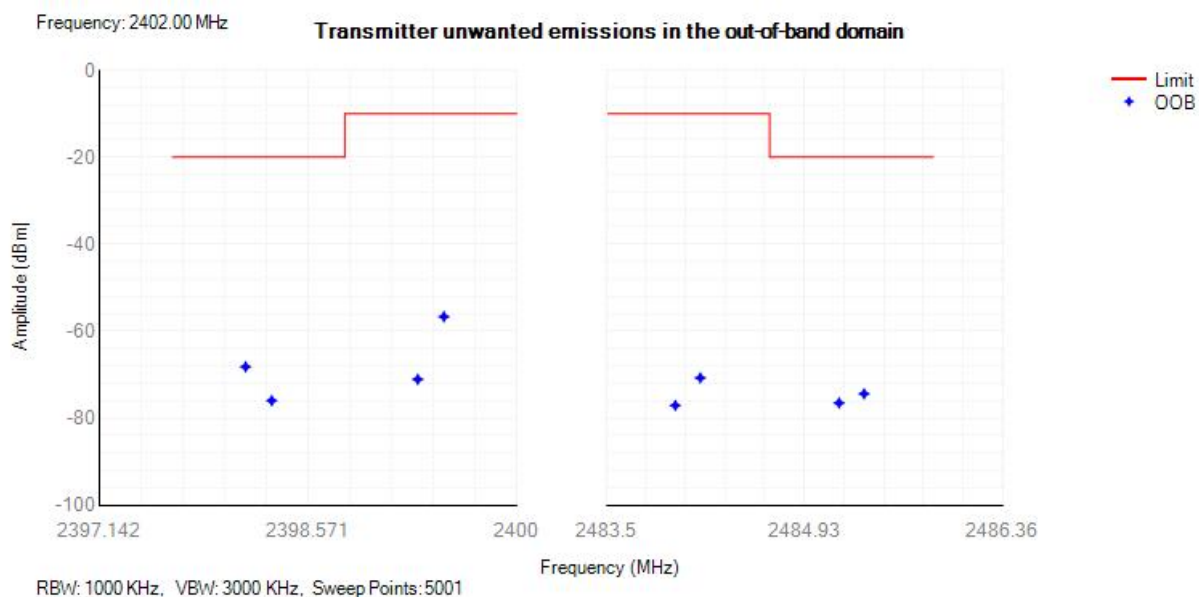


Tx. Emissions OOB NVNT 1-DH5 2480MHz

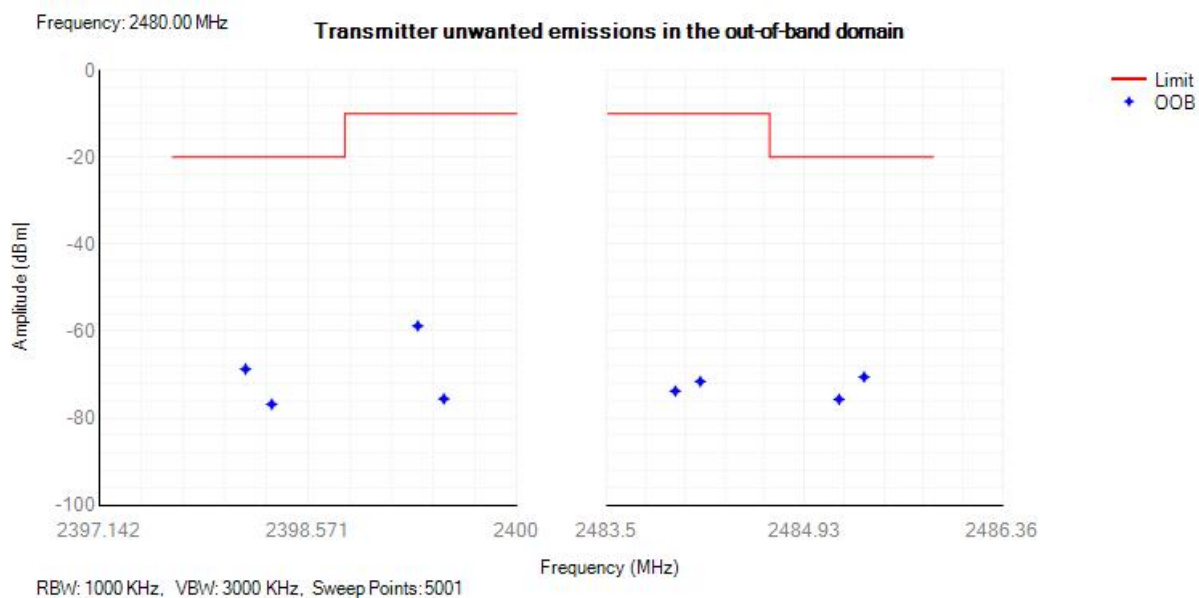




Tx. Emissions OOB NVNT 2-DH5 2402MHz

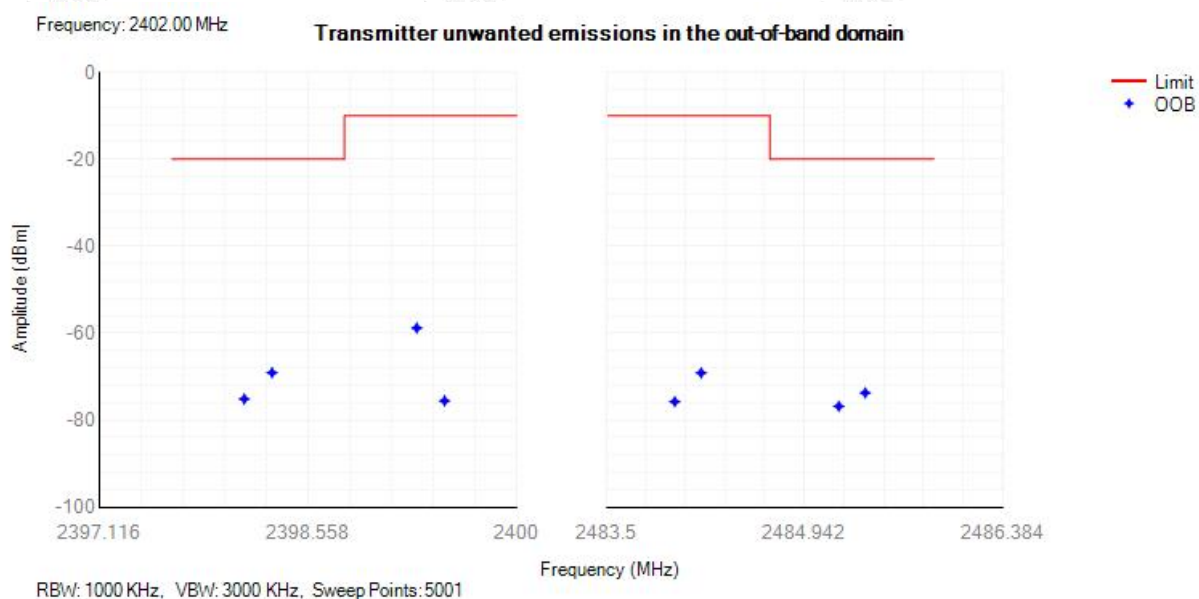


Tx. Emissions OOB NVNT 2-DH5 2480MHz

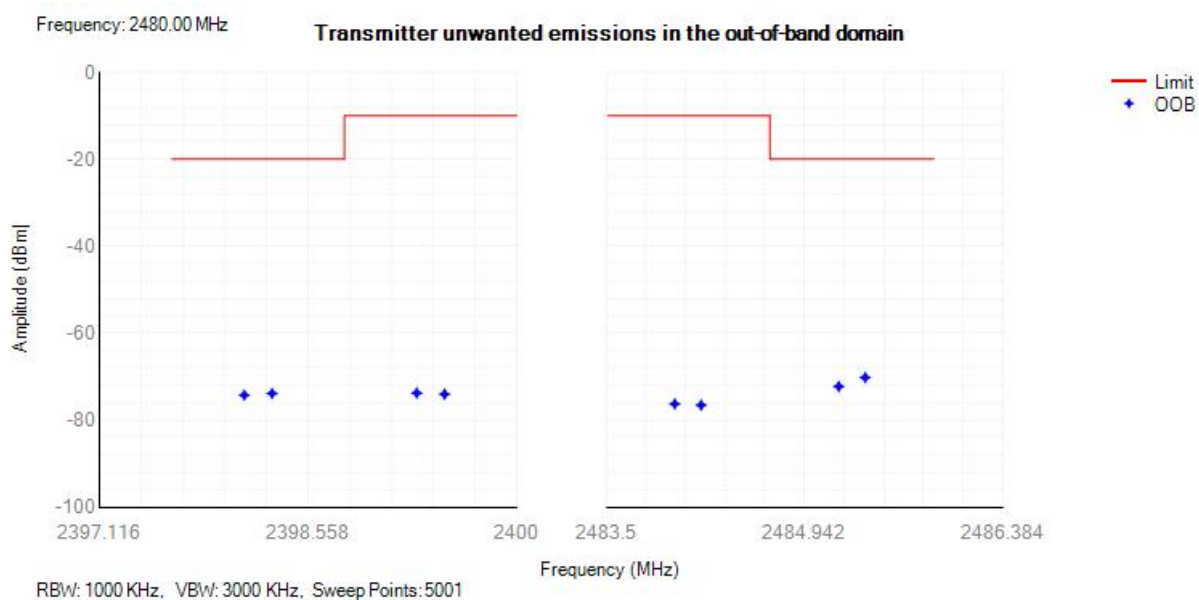




Tx. Emissions OOB NVNT 3-DH5 2402MHz



Tx. Emissions OOB NVNT 3-DH5 2480MHz

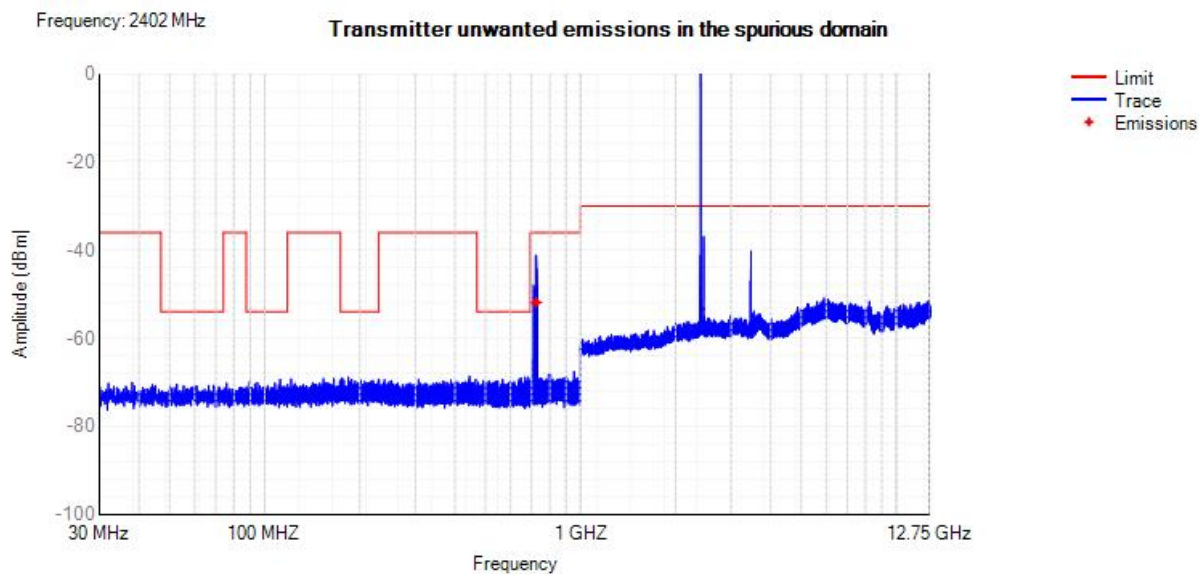




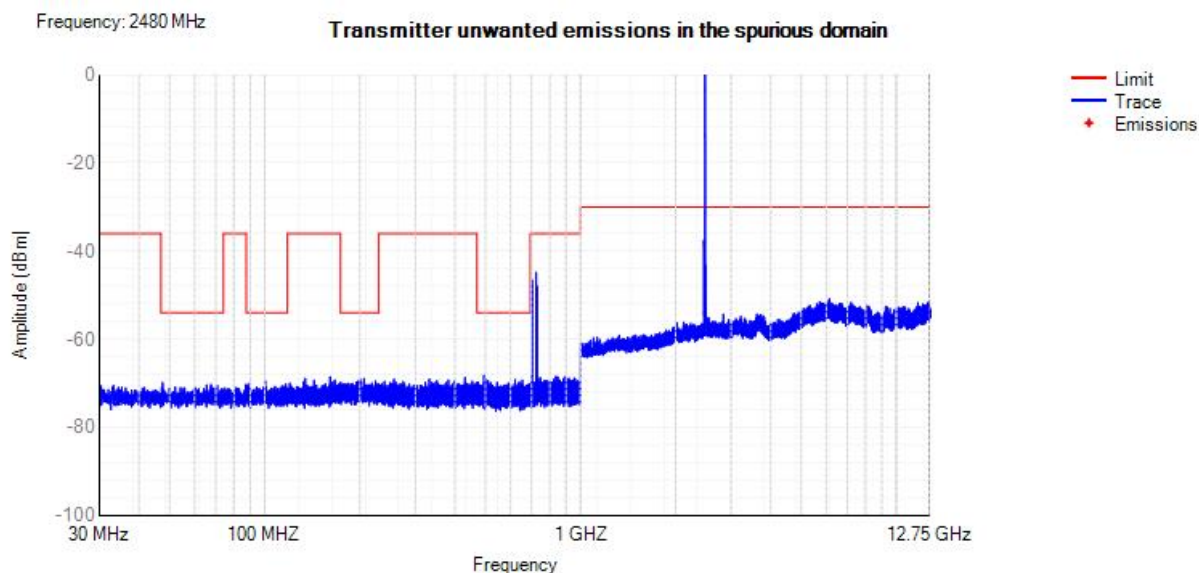
E.8 Transmitter unwanted emissions in the spurious domain

Condition	Mode	Frequency (MHz)	Range	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	694 MHz -1000 MHz	723.9	-51.88	-36	Pass

Tx. Spurious NVNT 1-DH5 2402MHz

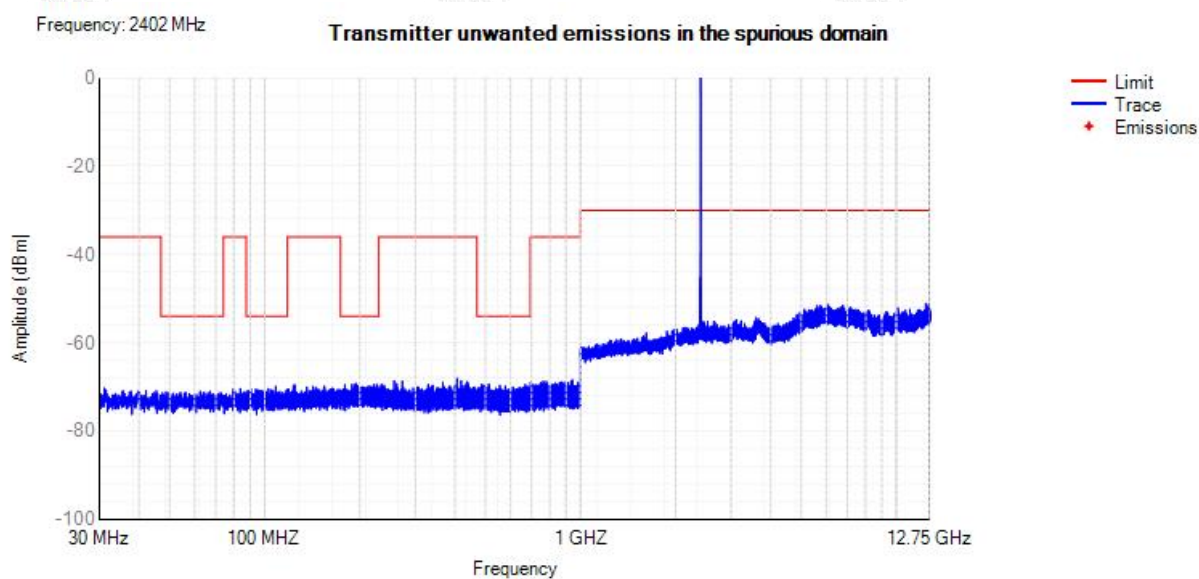


Tx. Spurious NVNT 1-DH5 2480MHz

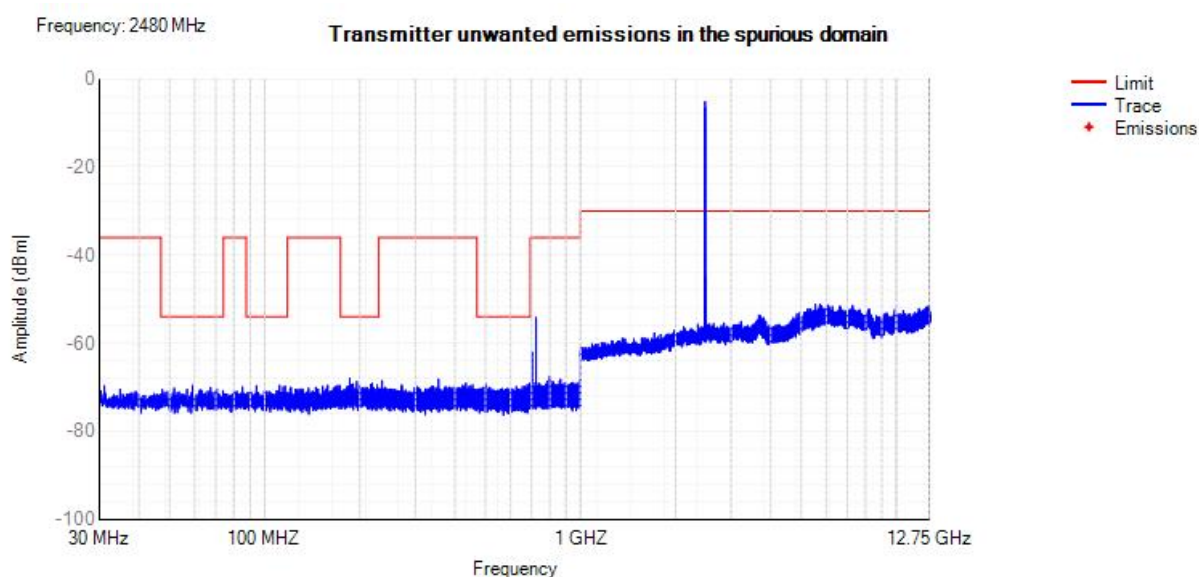




Tx. Spurious NVNT 2-DH5 2402MHz

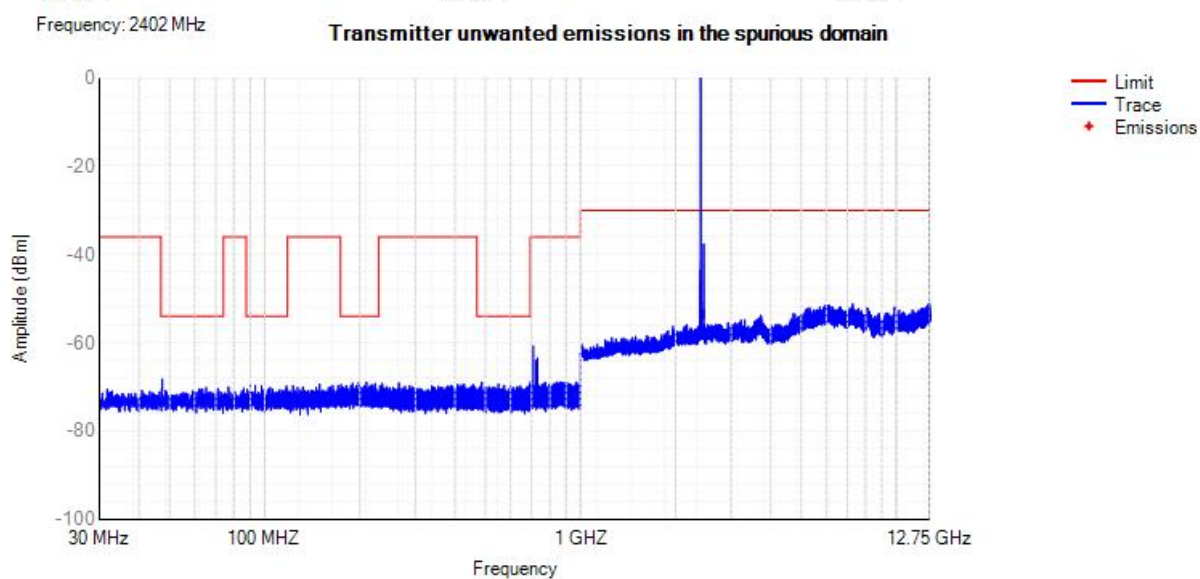


Tx. Spurious NVNT 2-DH5 2480MHz

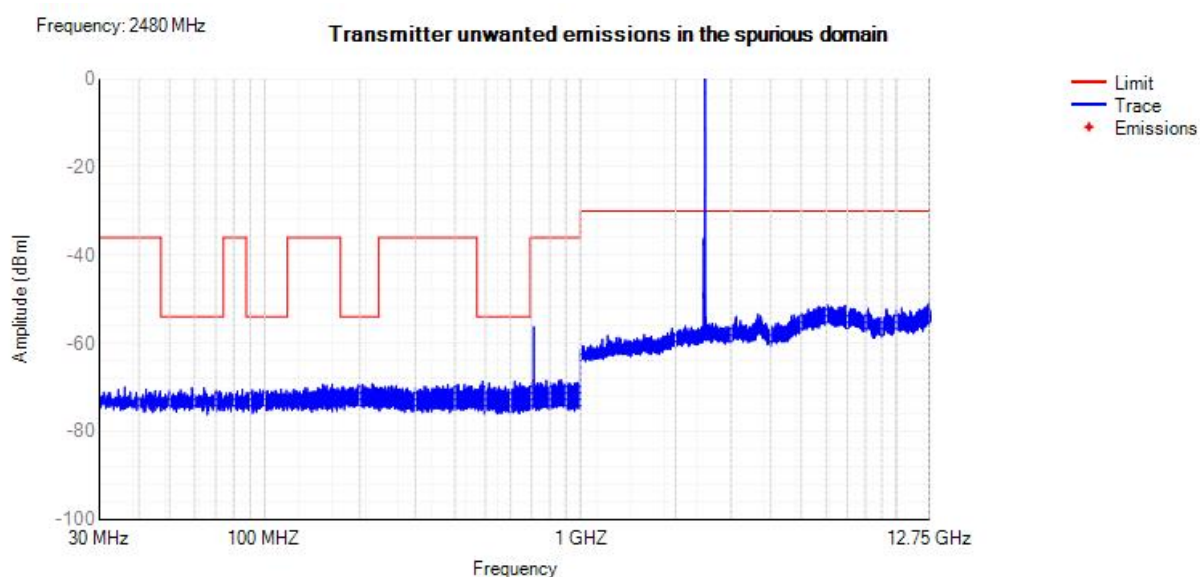




Tx. Spurious NVNT 3-DH5 2402MHz



Tx. Spurious NVNT 3-DH5 2480MHz

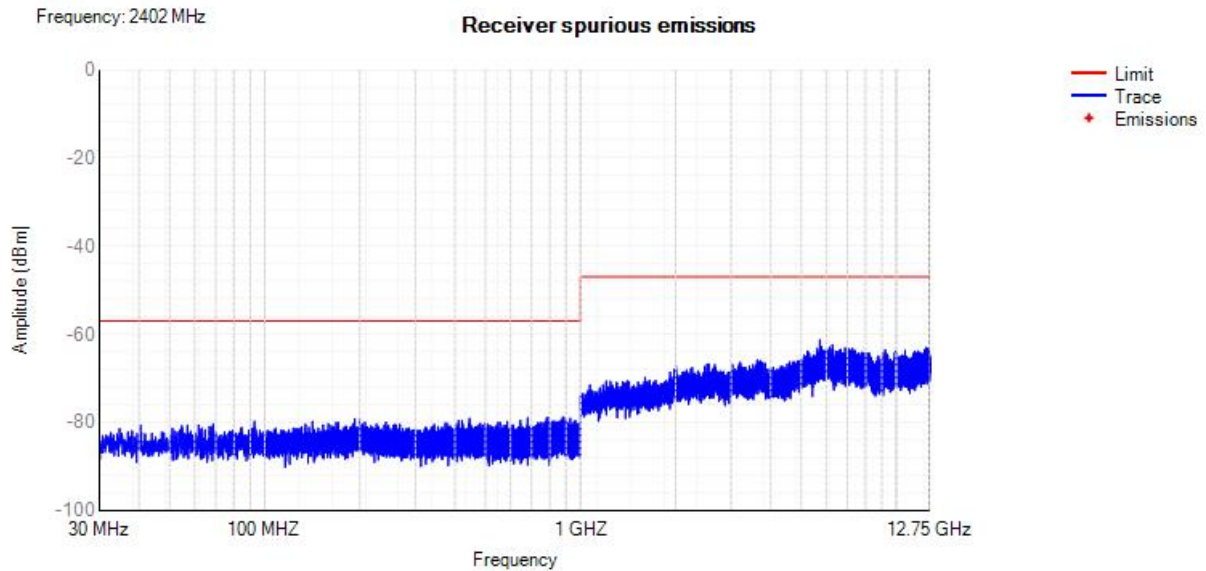




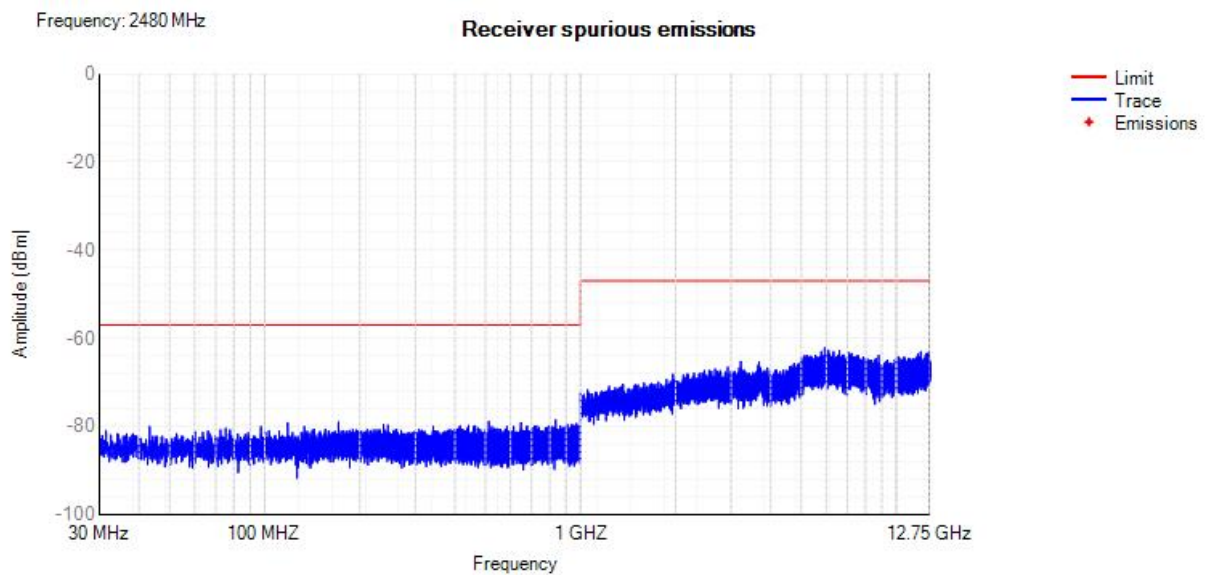
E.9 Receiver spurious emissions

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

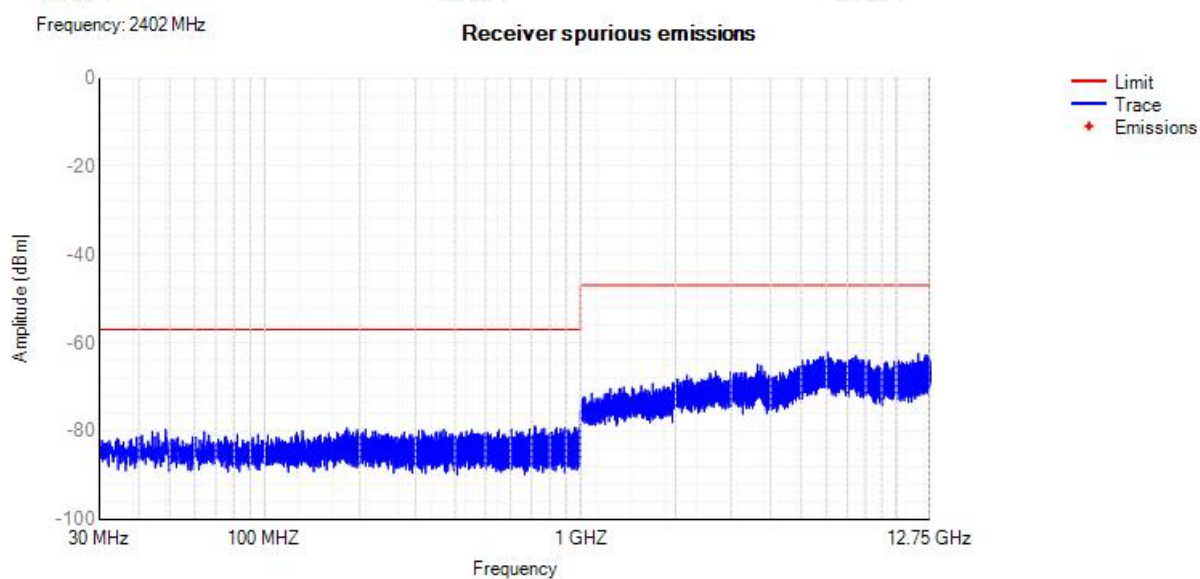


Rx. Spurious NVNT 1-DH5 2480MHz

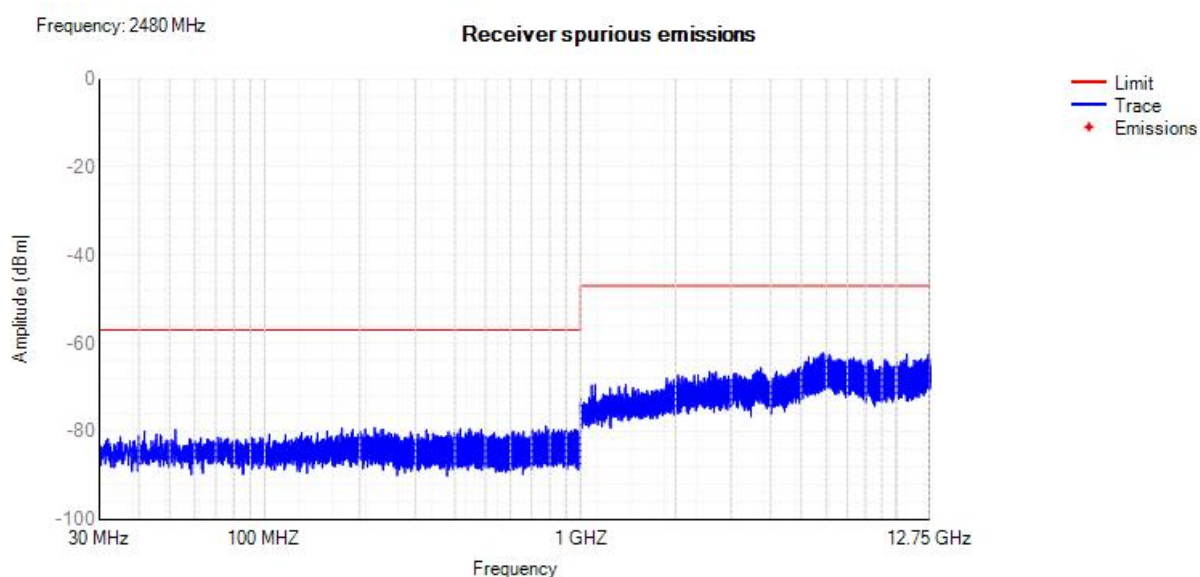




Rx. Spurious NVNT 2-DH5 2402MHz

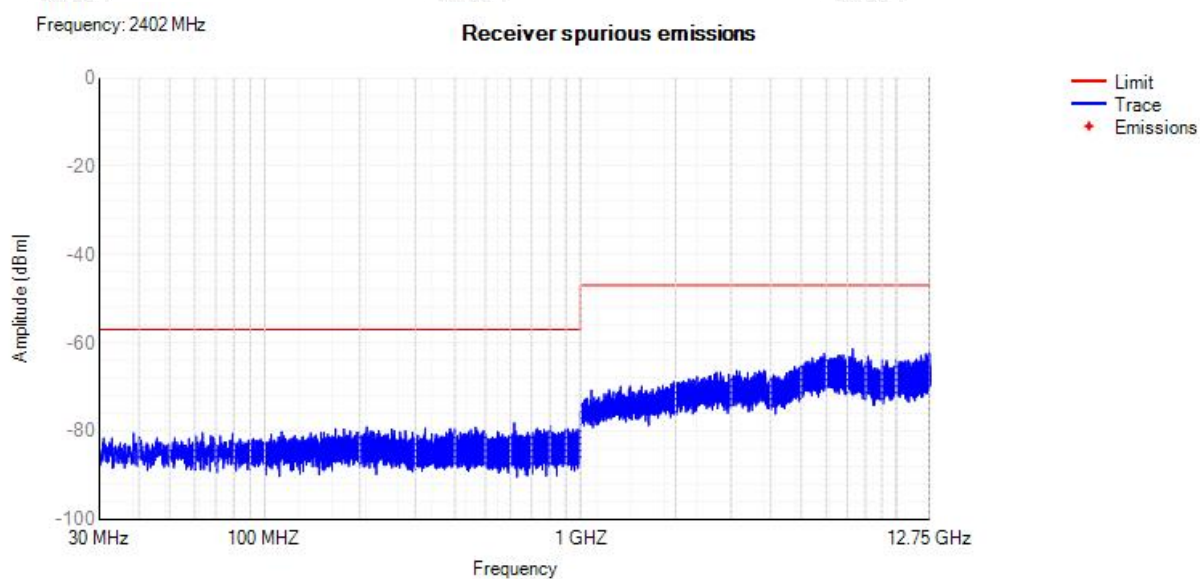


Rx. Spurious NVNT 2-DH5 2480MHz

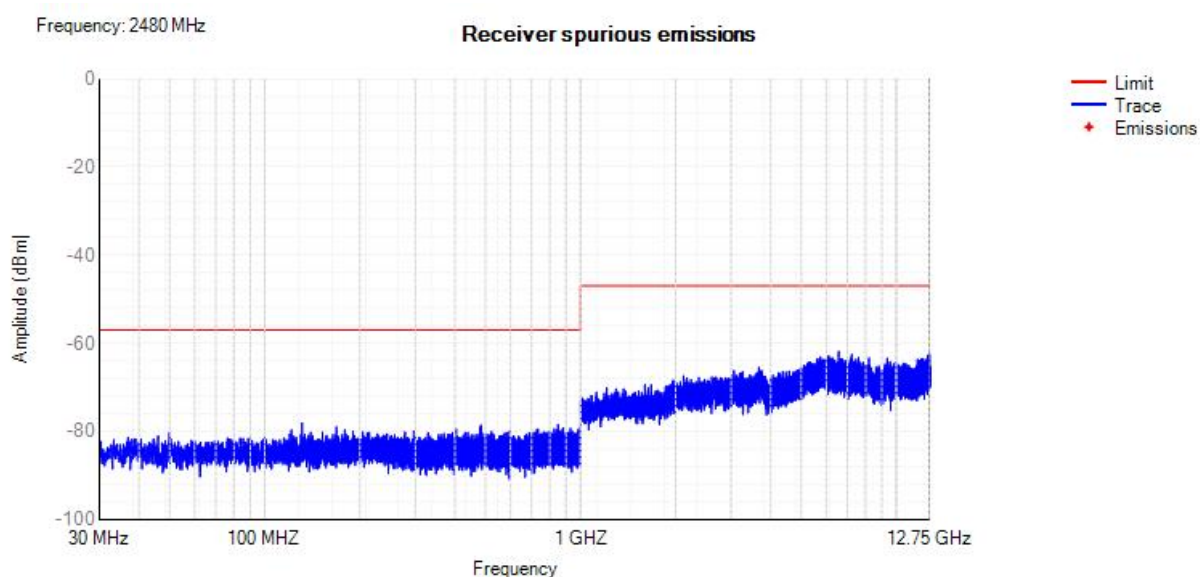




Rx. Spurious NVNT 3-DH5 2402MHz



Rx. Spurious NVNT 3-DH5 2480MHz





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	1.63	10	Pass
			2504	-23	≥-34	CW	3.55	10	Pass
			2300	-25	≥-34	CW	1.86	10	Pass
			2584	-23	≥-34	CW	3.12	10	Pass
	2480	-70	2380	-30	≥-34	CW	3.94	10	Pass
			2504	-25	≥-34	CW	2.11	10	Pass
			2300	-28	≥-34	CW	3.90	10	Pass
			2584	-20	≥-34	CW	2.59	10	Pass
2DH5	2402	-68	2380	-22	≥-34	CW	4.90	10	Pass
			2504	-20	≥-34	CW	2.15	10	Pass
			2300	-30	≥-34	CW	3.05	10	Pass
			2584	-27	≥-34	CW	5.18	10	Pass
	2480	-68	2380	-23	≥-34	CW	3.21	10	Pass
			2504	-28	≥-34	CW	2.39	10	Pass
			2300	-25	≥-34	CW	1.18	10	Pass
			2584	-20	≥-34	CW	1.74	10	Pass
3DH5	2402	-68	2380	-23	≥-34	CW	3.69	10	Pass
			2504	-23	≥-34	CW	3.76	10	Pass
			2300	-24	≥-34	CW	4.20	10	Pass
			2584	-25	≥-34	CW	2.38	10	Pass
	2480	-68	2380	-30	≥-34	CW	2.02	10	Pass
			2504	-25	≥-34	CW	5.31	10	Pass
			2300	-22	≥-34	CW	4.97	10	Pass
			2584	-24	≥-34	CW	3.06	10	Pass

