

Appendix E for BT Test Data

Product Name: AX3000 Wi-Fi 6 Bluetooth 5.0 PCIe Adapter

Test Model: WE3000S

**Additional Model No.: WE3000, WE3500, WE3600, WE4000, WE3700,
WE3800, WE3900**

Environmental Conditions

Temperature:	22.8° C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan

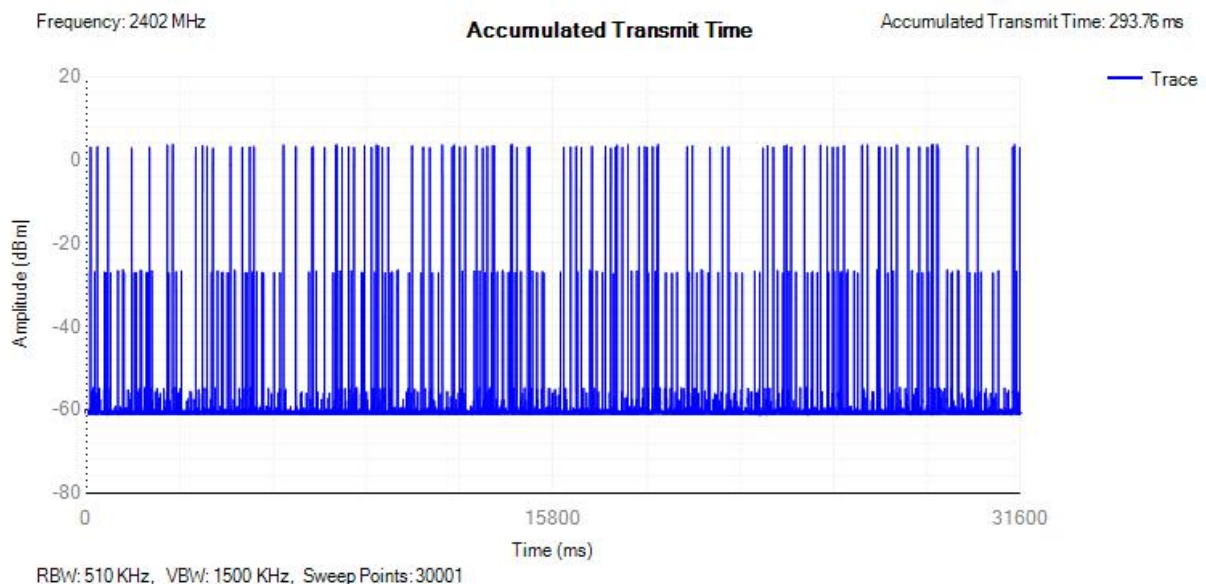
E.1 RF Output Power

Condition	Mode	Frequency (MHz)	Max EIRP (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	8.52	20	Pass
NVNT	1-DH5	2441	8.49	20	Pass
NVNT	1-DH5	2480	8.1	20	Pass
NVNT	2-DH5	2402	7.75	20	Pass
NVNT	2-DH5	2441	7.31	20	Pass
NVNT	2-DH5	2480	7.06	20	Pass
NVNT	3-DH5	2402	6.97	20	Pass
NVNT	3-DH5	2441	7.41	20	Pass
NVNT	3-DH5	2480	8.33	20	Pass

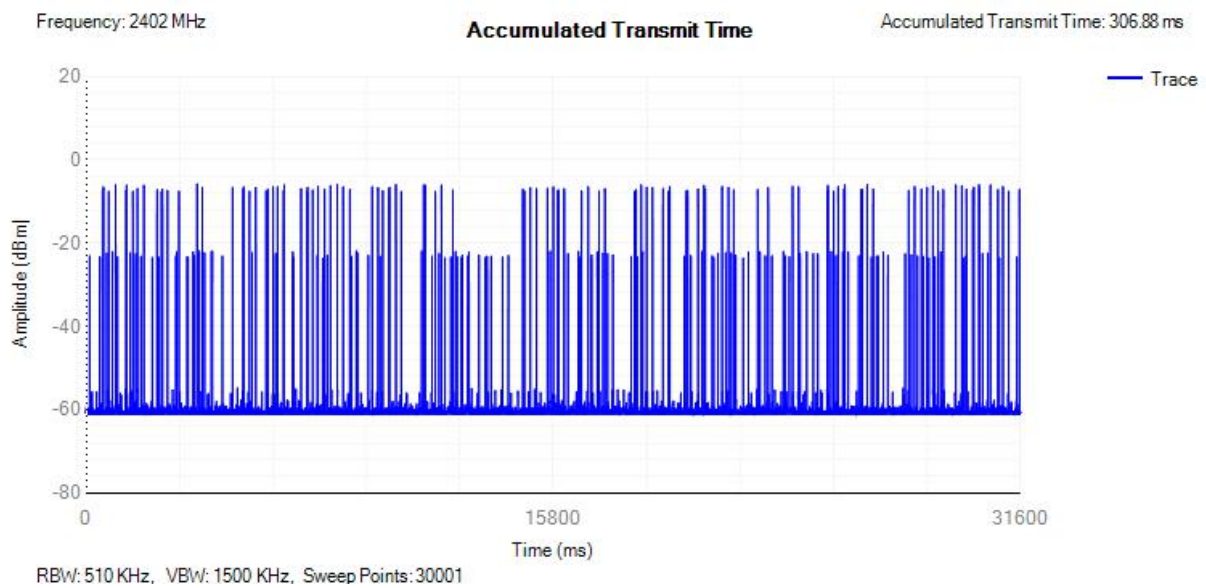
E.2 Accumulated Transmit Time

Condition	Mode	Frequency (MHz)	Accumulated Transmit Time (ms)	Limit (ms)	Sweep Time (ms)	Burst Number	Verdict
NVNT	1-DH5	2402	293.76	400	31600	102	Pass
NVNT	2-DH5	2402	306.88	400	31600	112	Pass
NVNT	3-DH5	2402	290.44	400	31600	106	Pass

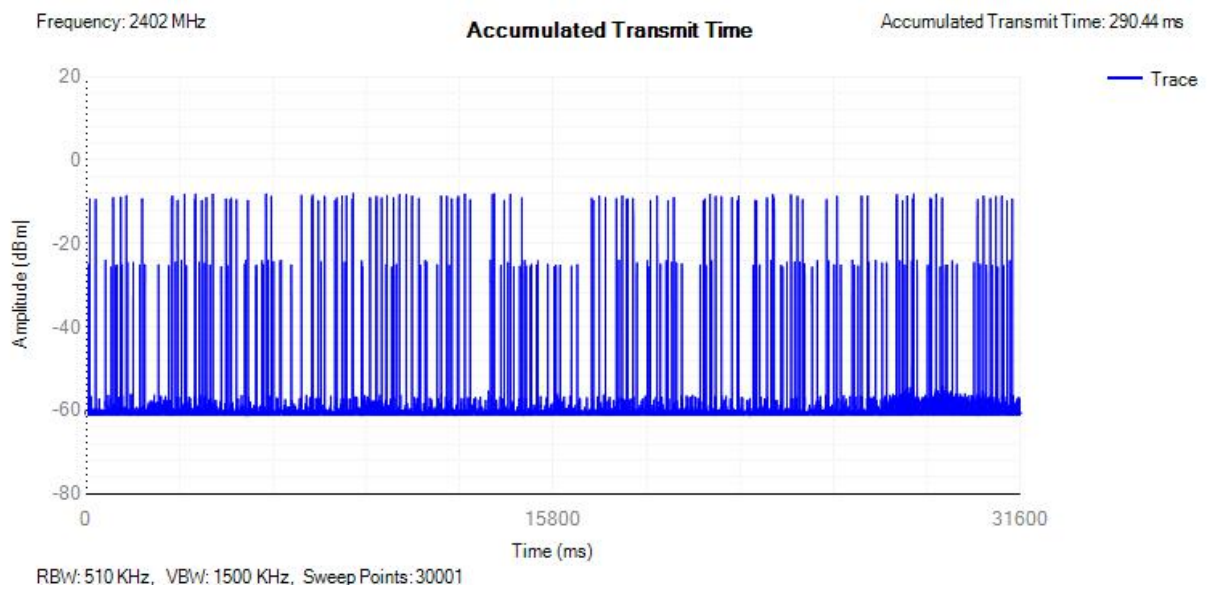
Dwell NVNT 1-DH5 2402MHz



Dwell NVNT 2-DH5 2402MHz



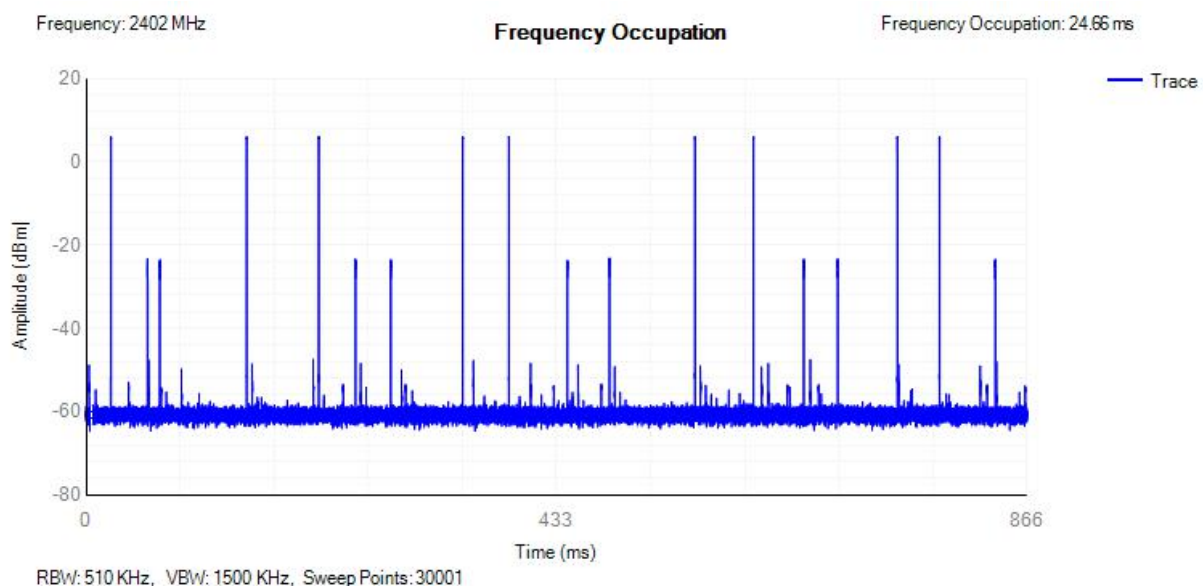
Dwell NVNT 3-DH5 2402MHz



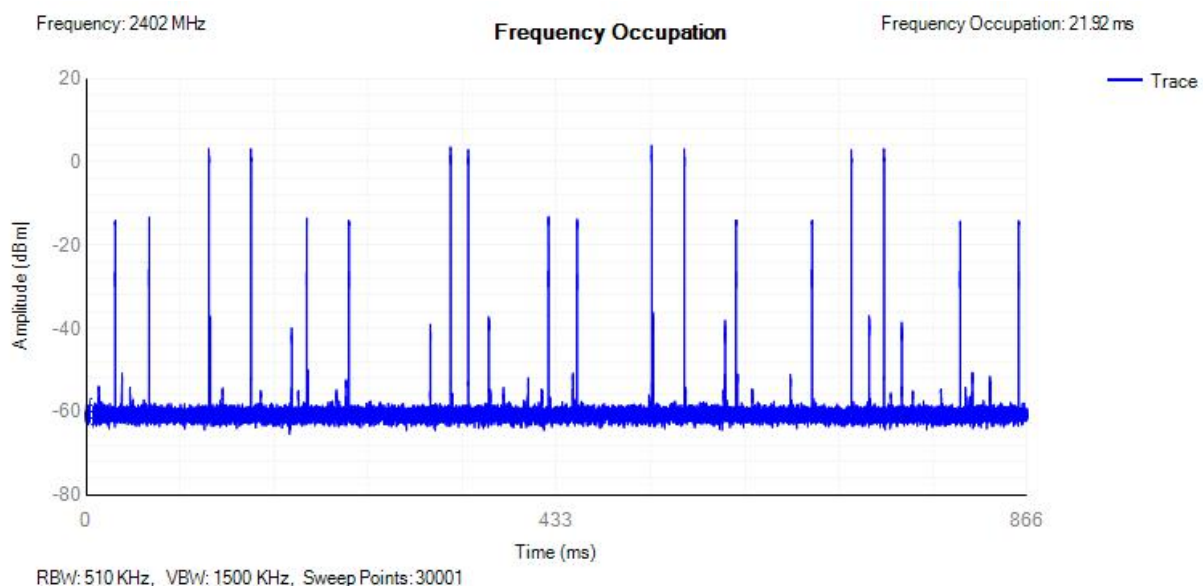
E.3 Frequency Occupation

Condition	Mode	Frequency (MHz)	Frequency Occupation (ms)	Limit (ms)	Sweep Time (ms)	Burst Number	Verdict
NVNT	1-DH1	2402	24.66	0	865.84	9	Pass
NVNT	2-DH1	2402	21.92	0	865.84	8	Pass
NVNT	3-DH1	2402	27.4	0	865.84	10	Pass

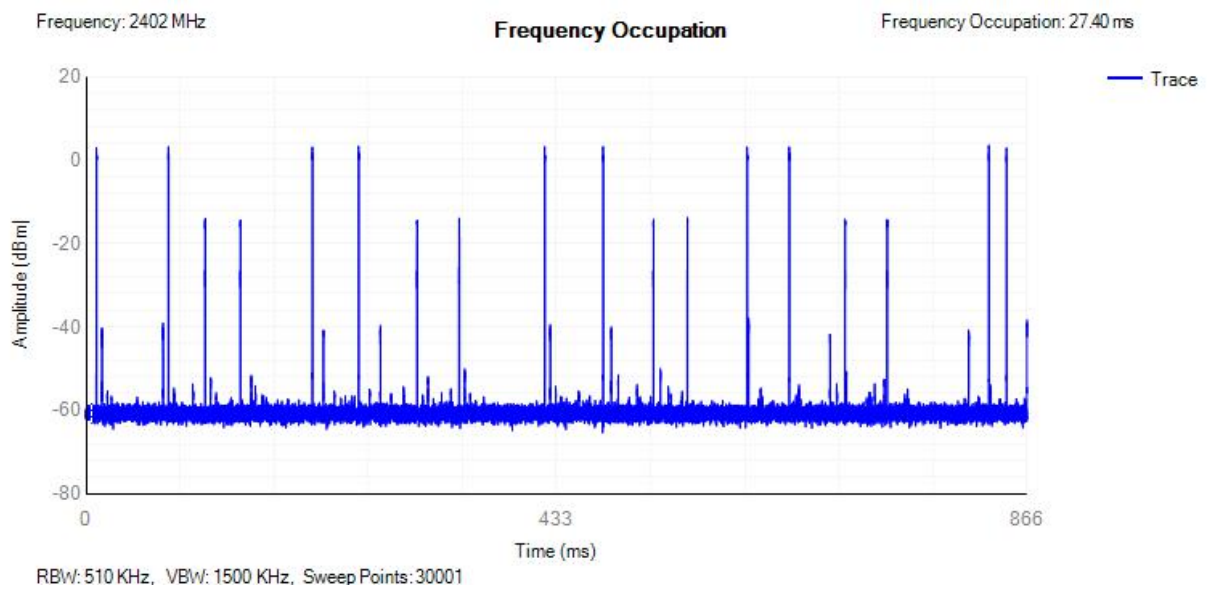
Freq. Occup. NVNT 1-DH1 2402MHz



Freq. Occup. NVNT 2-DH1 2402MHz



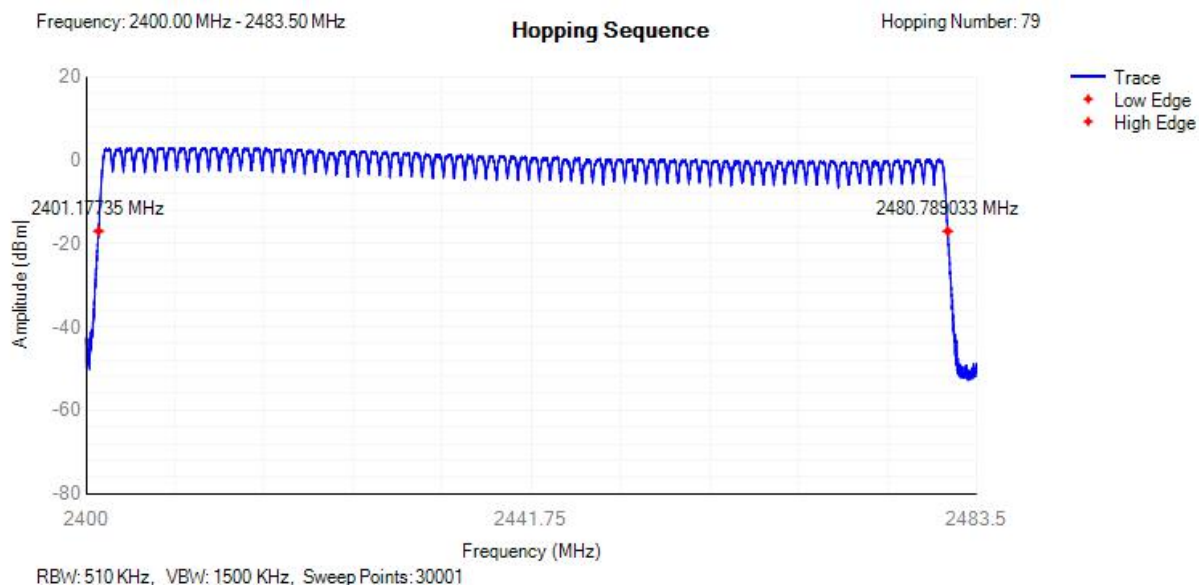
Freq. Occup. NVNT 3-DH1 2402MHz



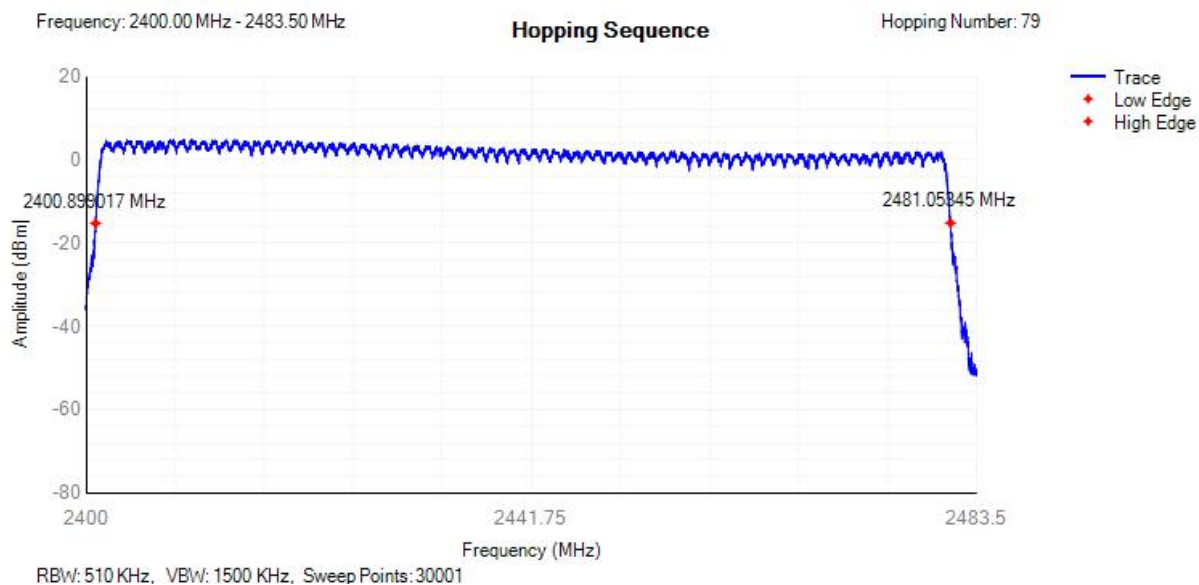
E.4 Hopping Sequence

Condition	Mode	Hopping Number	Limit	Band Allocation (%)	Limit Band Allocation (%)	Verdict
NVNT	1-DH5	79	15	95.34	70	Pass
NVNT	2-DH5	79	15	95.99	70	Pass
NVNT	3-DH5	79	15	96	70	Pass

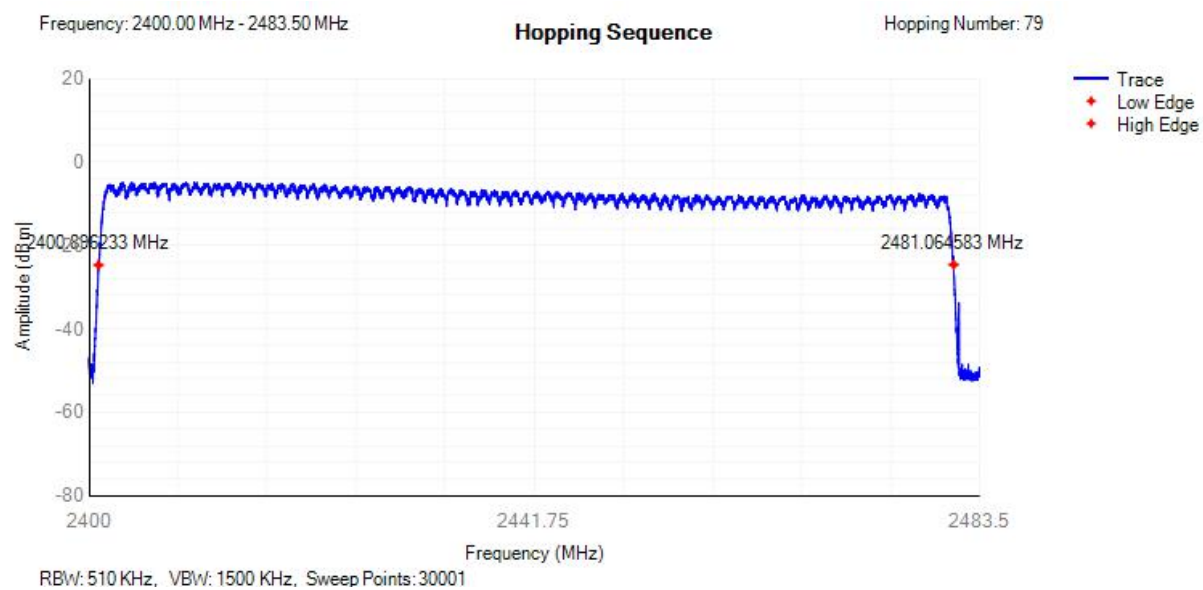
Hopping Seq. NVNT 1-DH5 2402MHz



Hopping Seq. NVNT 2-DH5 2402MHz



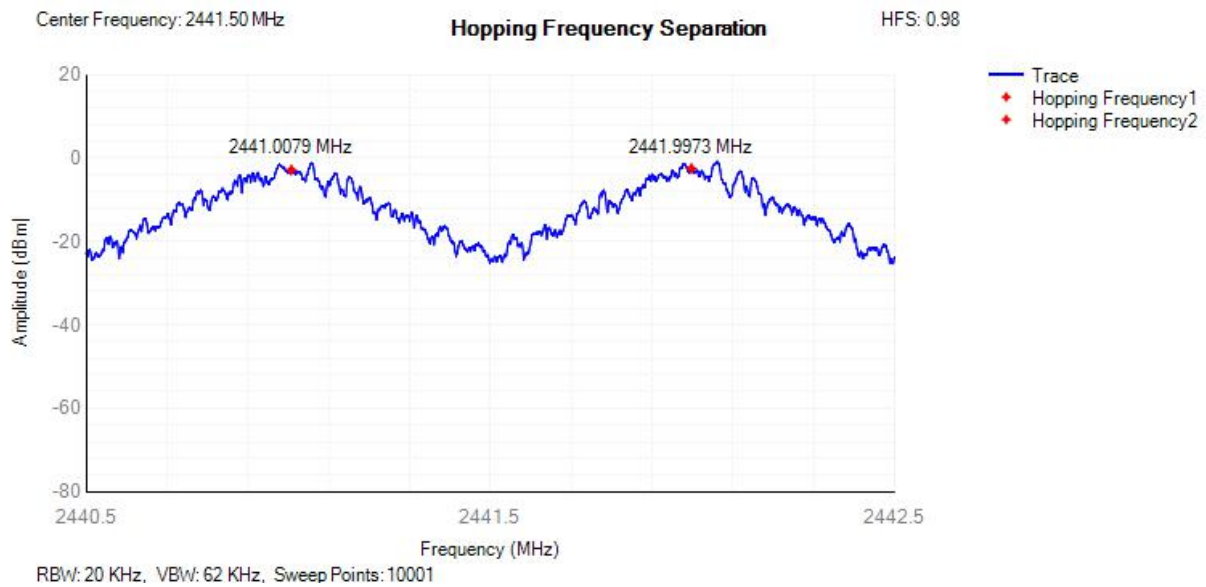
Hopping Seq. NVNT 3-DH5 2402MHz



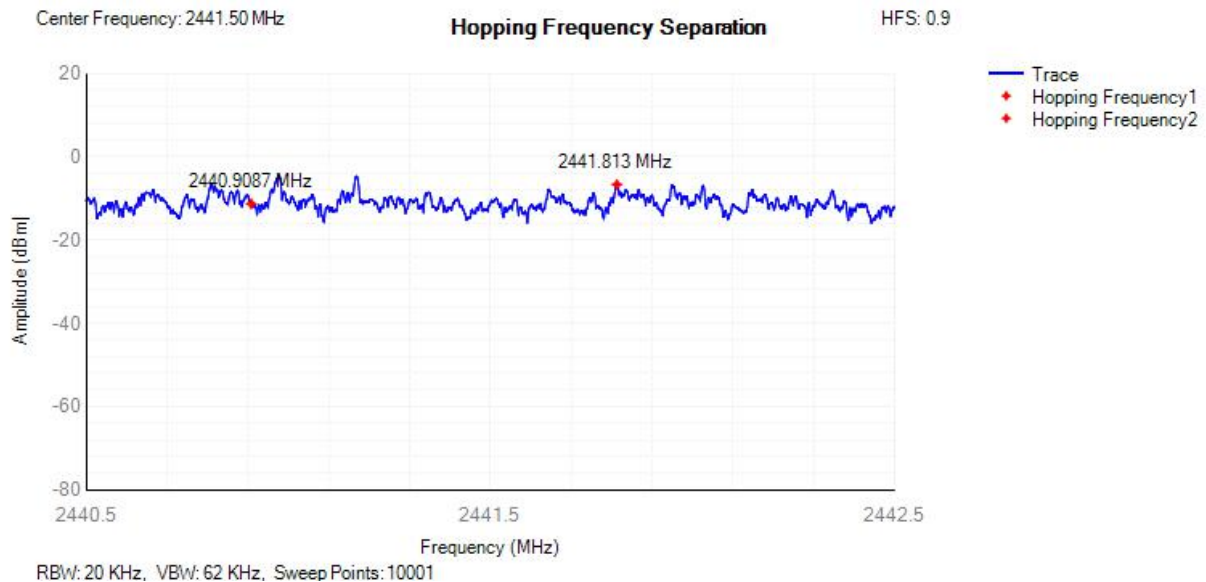
E.5 Hopping Frequency Separation

Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	2441.0079	2441.9973	0.98	0.1	Pass
NVNT	2-DH5	2440.9087	2441.813	0.9	0.1	Pass
NVNT	3-DH5	2440.9753	2441.8018	0.82	0.1	Pass

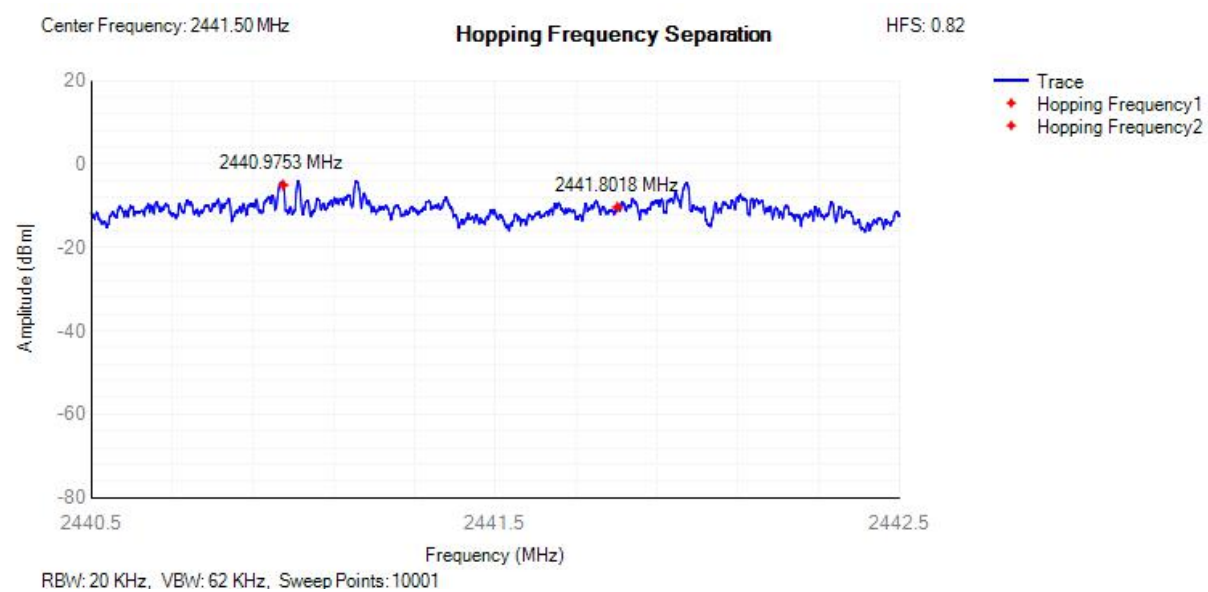
HFS NVNT 1-DH5 2441MHz



HFS NVNT 2-DH5 2441MHz



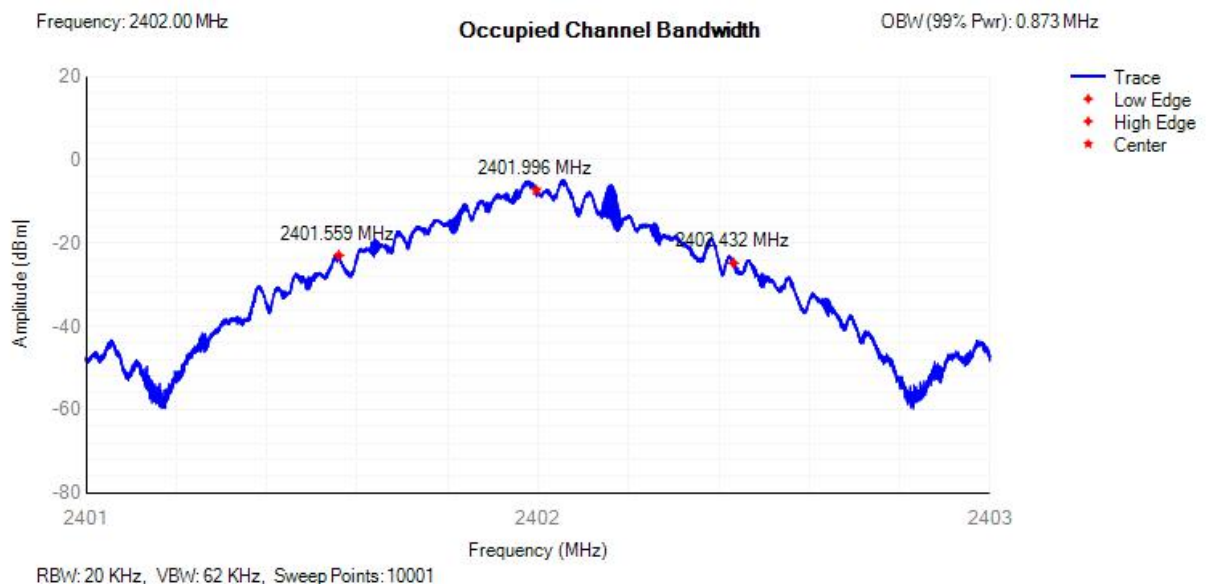
HFS NVNT 3-DH5 2441MHz



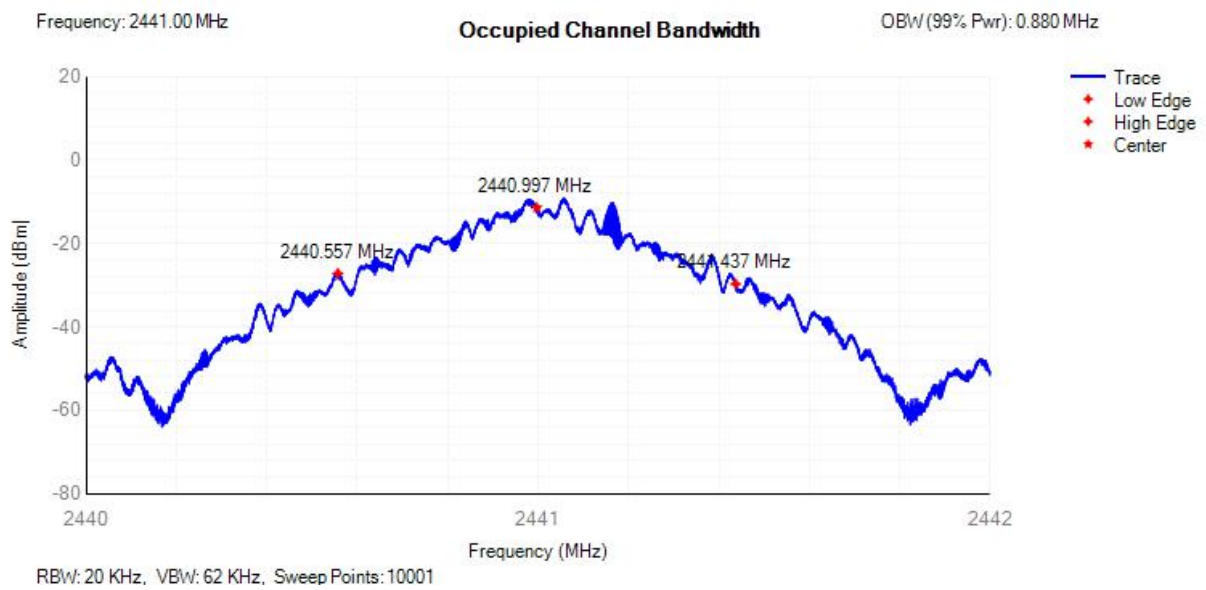
E.6 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Center Frequency (MHz)	OBW (MHz)	Lower Edge (MHz)	Upper Edge (MHz)	Limit OBW (MHz)	Verdict
NVNT	1-DH5	2402	2401.996	0.873	2401.559	2402.432	2400 - 2483.5MHz	Pass
NVNT	1-DH5	2441	2440.997	0.880	2440.557	2441.437	2400 - 2483.5MHz	Pass
NVNT	1-DH5	2480	2479.996	0.876	2479.557	2480.434	2400 - 2483.5MHz	Pass
NVNT	2-DH5	2402	2401.993	1.369	2401.308	2402.678	2400 - 2483.5MHz	Pass
NVNT	2-DH5	2441	2440.994	1.368	2440.31	2441.679	2400 - 2483.5MHz	Pass
NVNT	2-DH5	2480	2479.994	1.371	2479.309	2480.68	2400 - 2483.5MHz	Pass
NVNT	3-DH5	2402	2402.001	1.363	2401.319	2402.682	2400 - 2483.5MHz	Pass
NVNT	3-DH5	2441	2441.002	1.362	2440.32	2441.683	2400 - 2483.5MHz	Pass
NVNT	3-DH5	2480	2480	1.363	2479.318	2480.682	2400 - 2483.5MHz	Pass

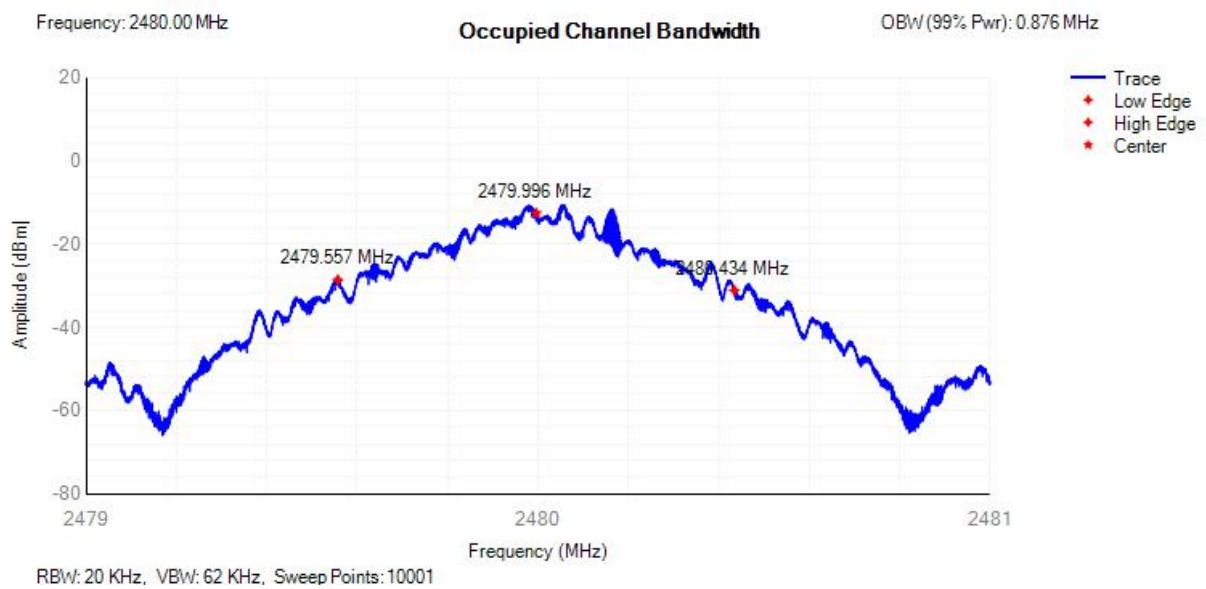
OBW NVNT 1-DH5 2402MHz



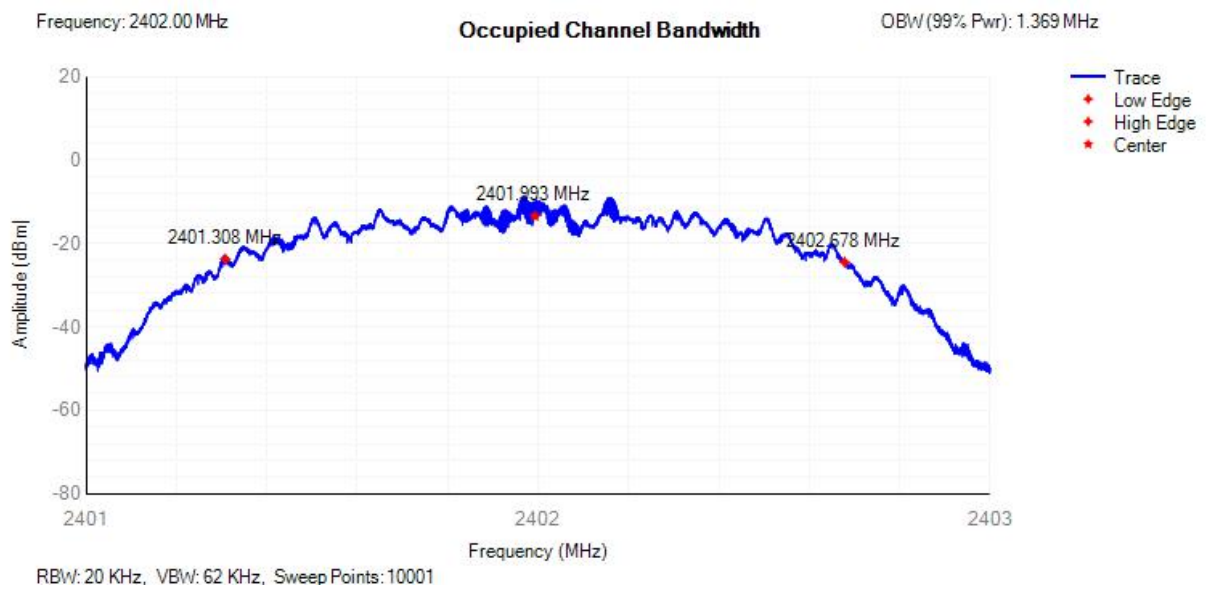
OBW NVNT 1-DH5 2441MHz



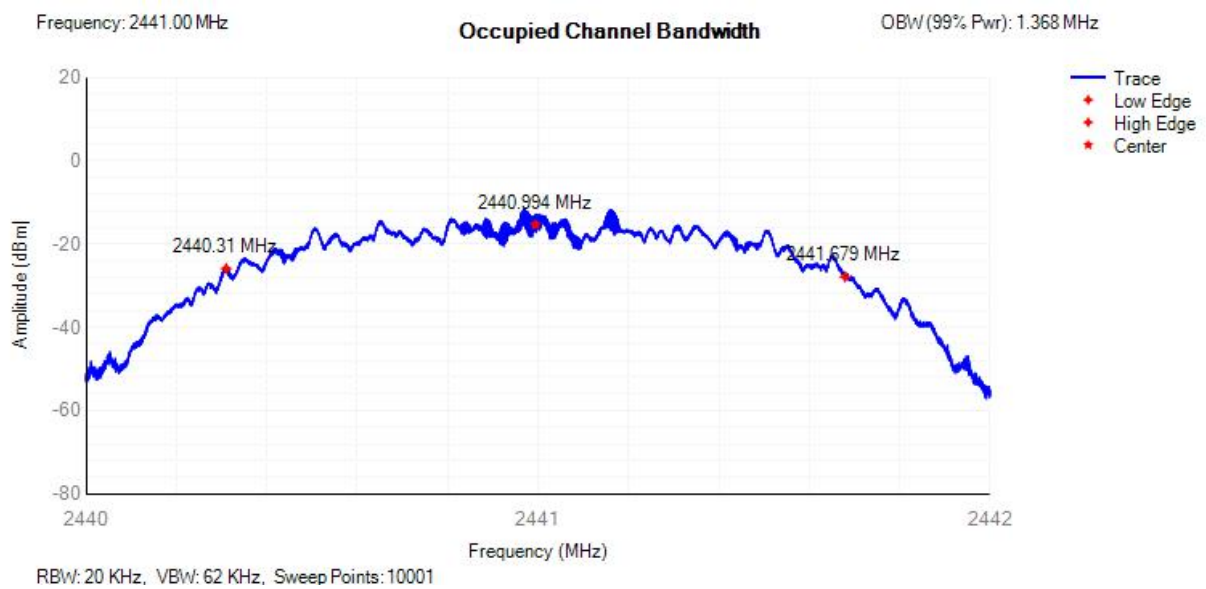
OBW NVNT 1-DH5 2480MHz



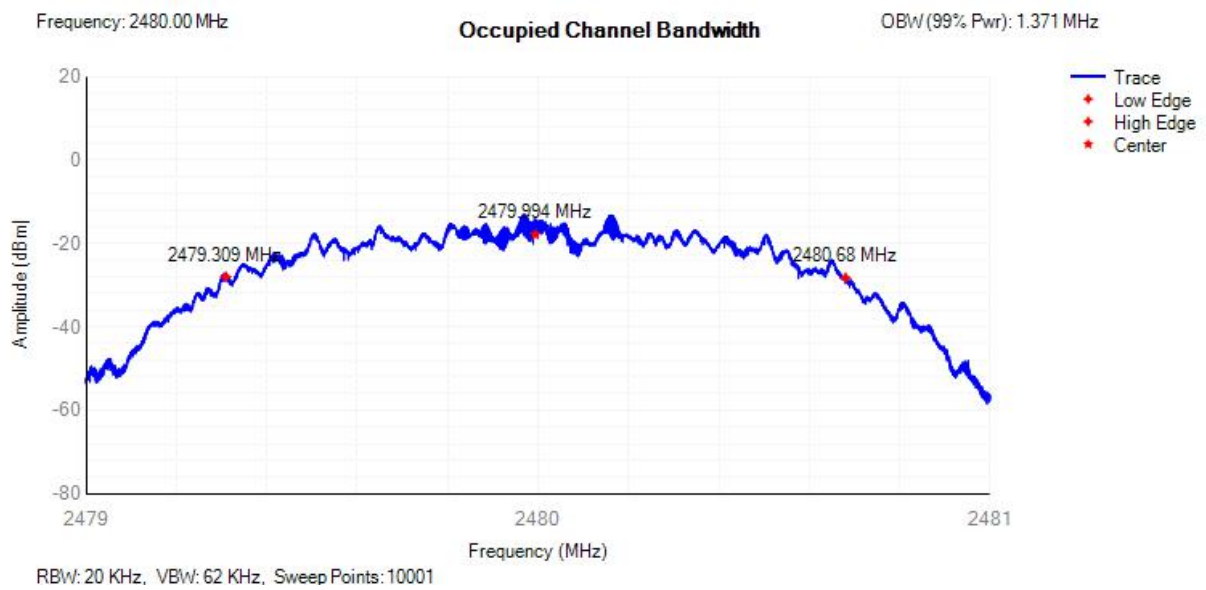
OBW NVNT 2-DH5 2402MHz



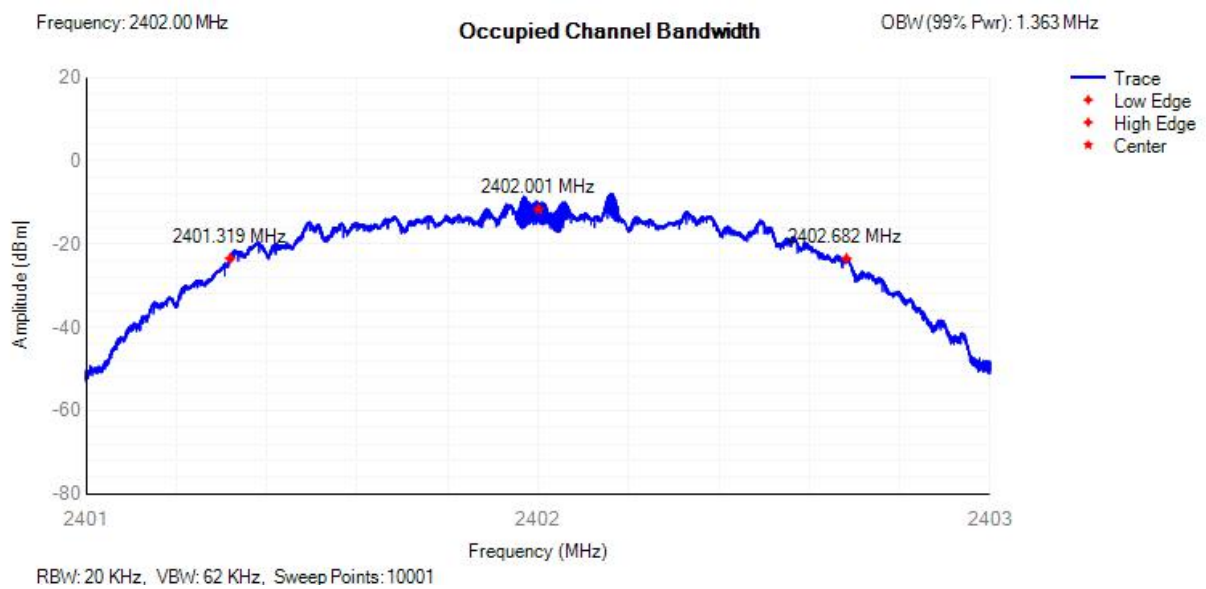
OBW NVNT 2-DH5 2441MHz



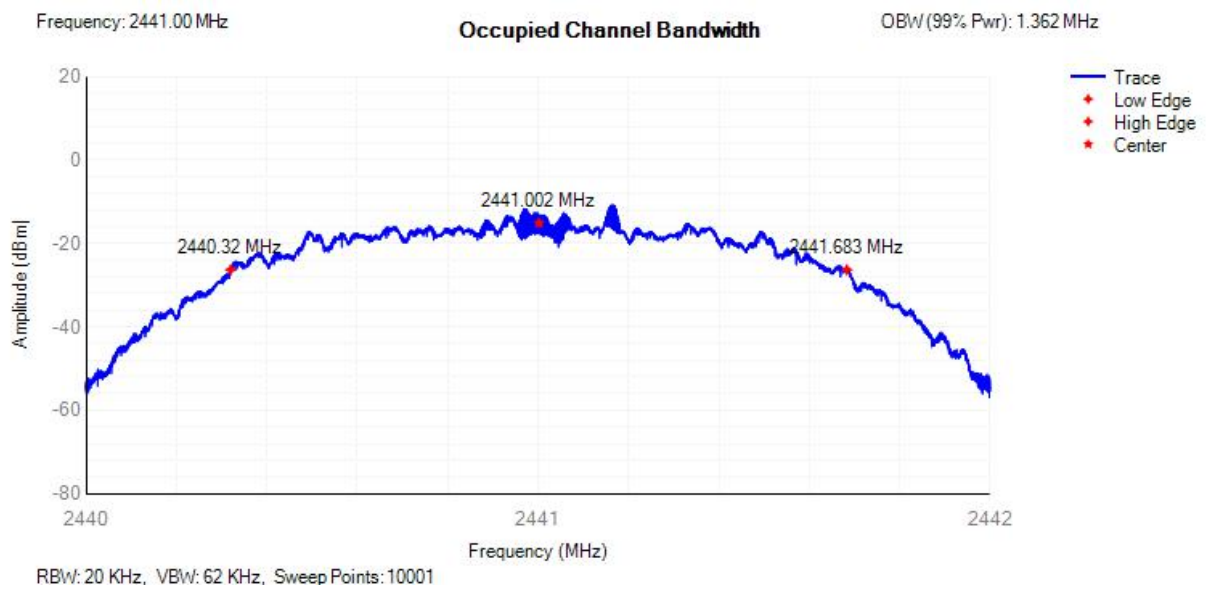
OBW NVNT 2-DH5 2480MHz



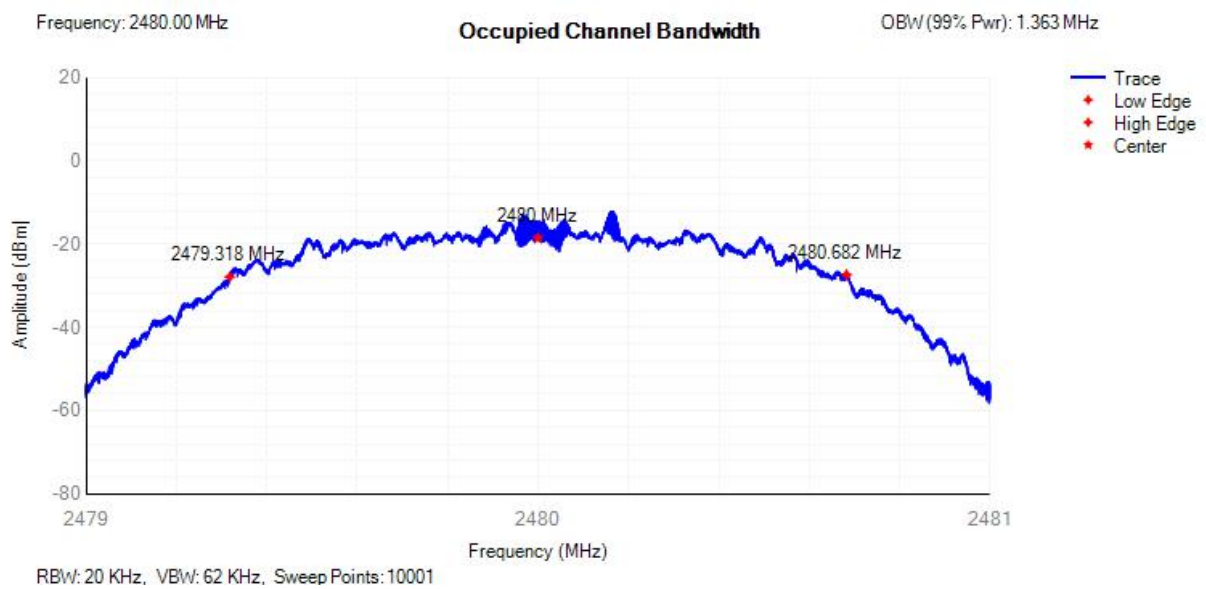
OBW NVNT 3-DH5 2402MHz



OBW NVNT 3-DH5 2441MHz



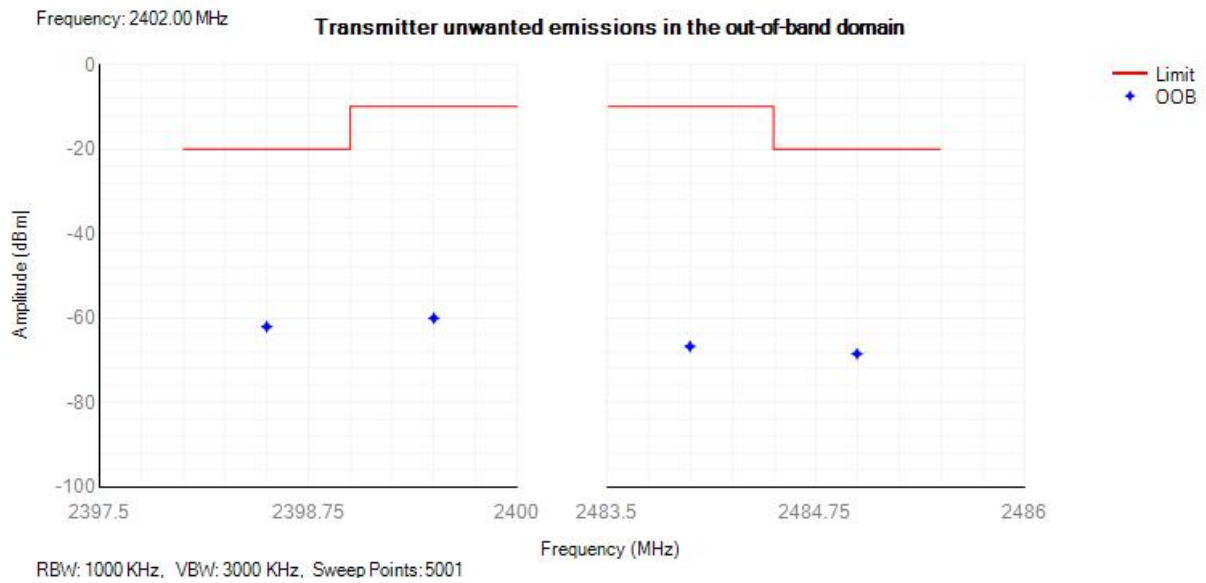
OBW NVNT 3-DH5 2480MHz



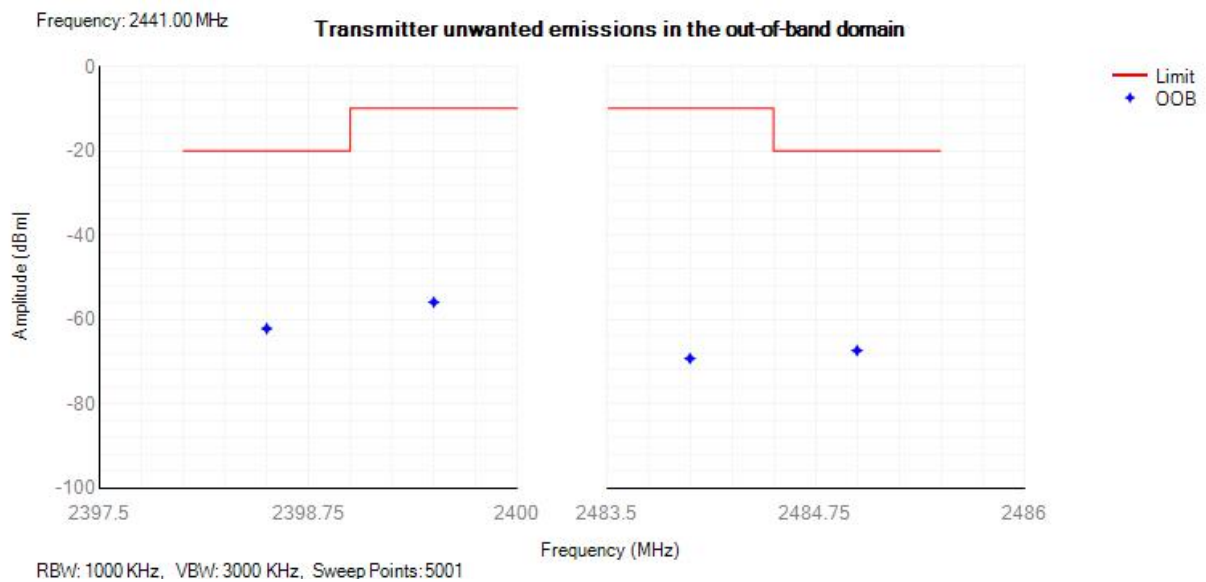
E.7 Transmitter unwanted emissions in the out-of-band domain

Condition	Mode	Frequency (MHz)	OOB Frequency (MHz)	Level (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	1-DH5	2402	2399.5	-60.03	-10	Pass
NVNT	1-DH5	2402	2398.5	-62.05	-20	Pass
NVNT	1-DH5	2402	2484	-66.73	-10	Pass
NVNT	1-DH5	2402	2485	-68.47	-20	Pass
NVNT	1-DH5	2441	2399.5	-55.9	-10	Pass
NVNT	1-DH5	2441	2398.5	-62.15	-20	Pass
NVNT	1-DH5	2441	2484	-69.24	-10	Pass
NVNT	1-DH5	2441	2485	-67.36	-20	Pass
NVNT	1-DH5	2480	2399.5	-63.7	-10	Pass
NVNT	1-DH5	2480	2398.5	-62.28	-20	Pass
NVNT	1-DH5	2480	2484	-66.14	-10	Pass
NVNT	1-DH5	2480	2485	-69.22	-20	Pass
NVNT	3-DH5	2402	2399.5	-45.22	-10	Pass
NVNT	3-DH5	2402	2399.131	-52.89	-10	Pass
NVNT	3-DH5	2402	2398.131	-66.74	-20	Pass
NVNT	3-DH5	2402	2397.762	-66.33	-20	Pass
NVNT	3-DH5	2402	2484	-68.86	-10	Pass
NVNT	3-DH5	2402	2484.371	-72.91	-10	Pass
NVNT	3-DH5	2402	2485.371	-67.15	-20	Pass
NVNT	3-DH5	2402	2485.742	-65.59	-20	Pass
NVNT	3-DH5	2441	2399.5	-48.55	-10	Pass
NVNT	3-DH5	2441	2399.131	-50.45	-10	Pass
NVNT	3-DH5	2441	2398.131	-61.86	-20	Pass
NVNT	3-DH5	2441	2397.762	-71.69	-20	Pass
NVNT	3-DH5	2441	2484	-66.08	-10	Pass
NVNT	3-DH5	2441	2484.371	-59.61	-10	Pass
NVNT	3-DH5	2441	2485.371	-62.81	-20	Pass
NVNT	3-DH5	2441	2485.742	-62.4	-20	Pass
NVNT	3-DH5	2480	2399.5	-46.2	-10	Pass
NVNT	3-DH5	2480	2399.131	-53.25	-10	Pass
NVNT	3-DH5	2480	2398.131	-64.19	-20	Pass
NVNT	3-DH5	2480	2397.762	-60.27	-20	Pass
NVNT	3-DH5	2480	2484	-72.07	-10	Pass
NVNT	3-DH5	2480	2484.371	-60.8	-10	Pass
NVNT	3-DH5	2480	2485.371	-66.52	-20	Pass
NVNT	3-DH5	2480	2485.742	-66.22	-20	Pass

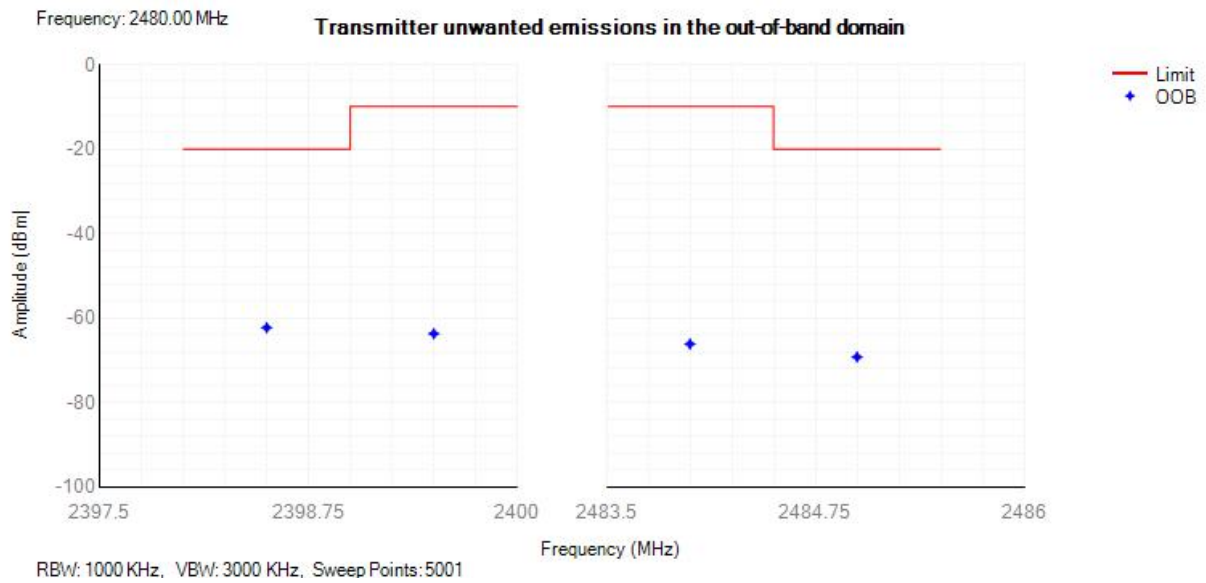
Tx. Emissions OOB NVNT 1-DH5 2402MHz



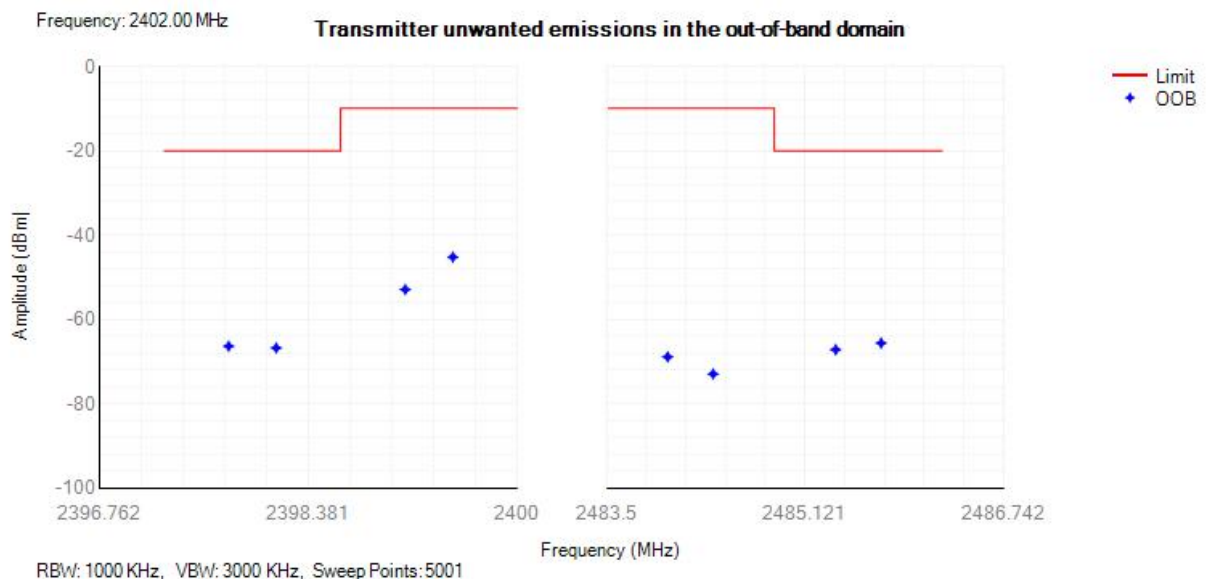
Tx. Emissions OOB NVNT 1-DH5 2441MHz



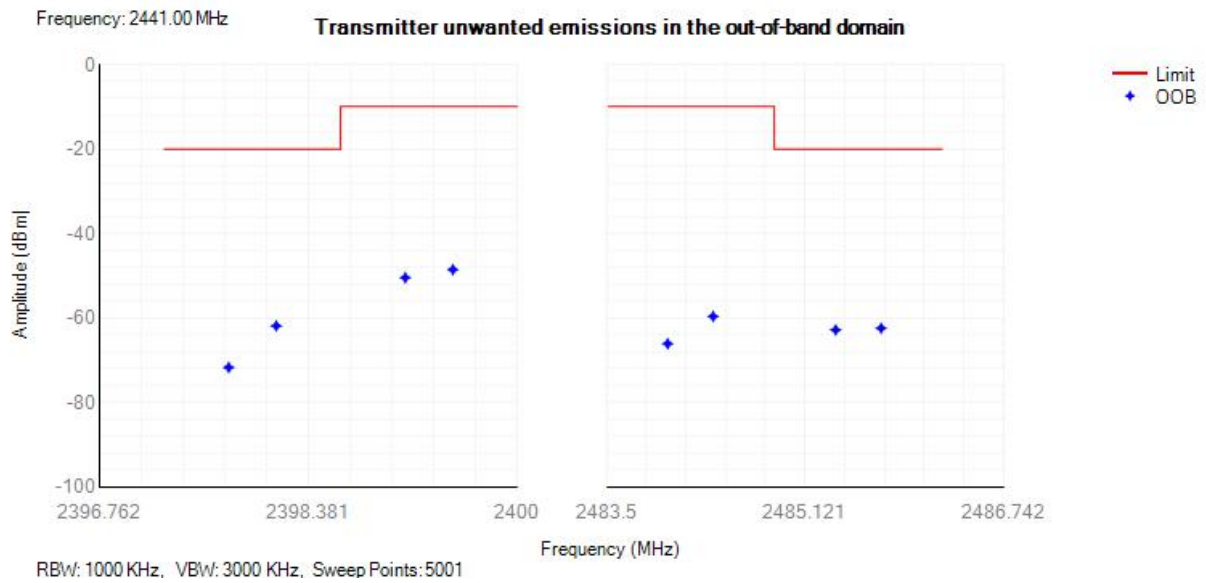
Tx. Emissions OOB NVNT 1-DH5 2480MHz



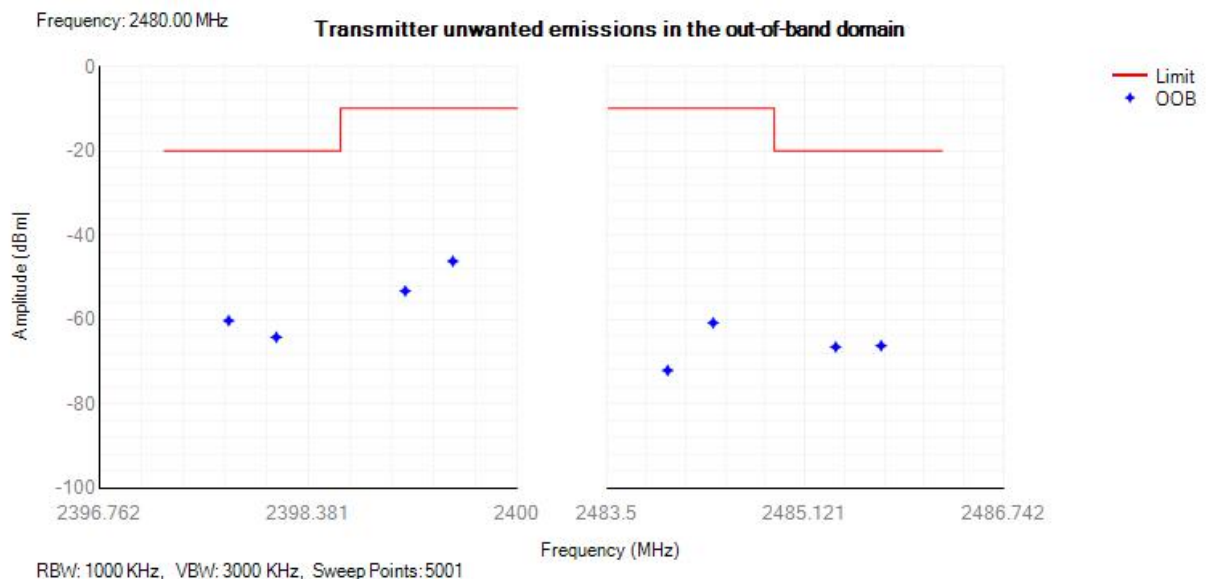
Tx. Emissions OOB NVNT 3-DH5 2402MHz



Tx. Emissions OOB NVNT 3-DH5 2441MHz

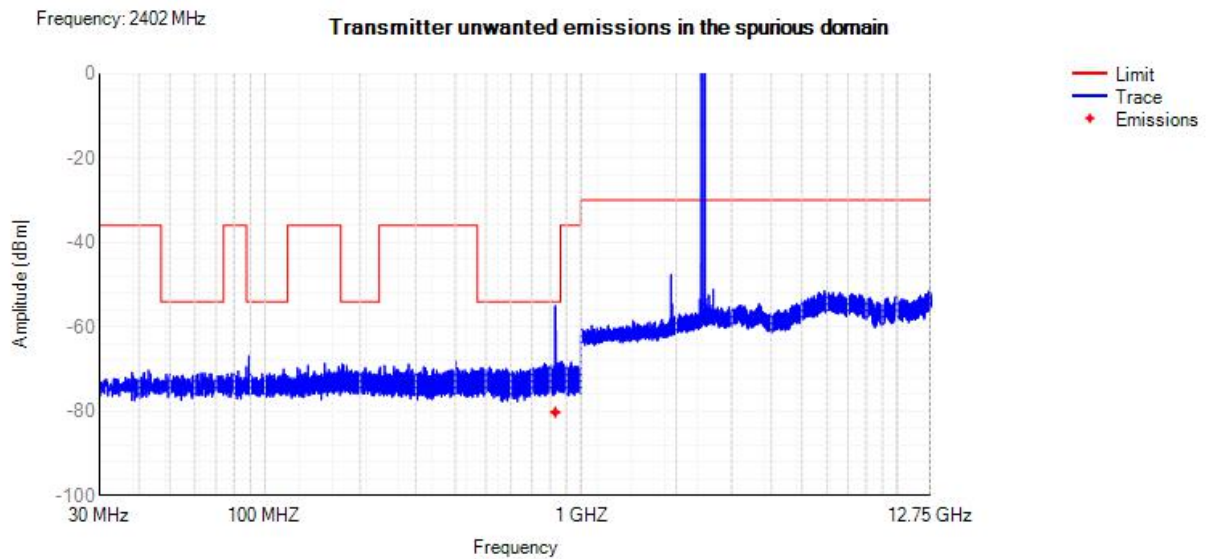


Tx. Emissions OOB NVNT 3-DH5 2480MHz

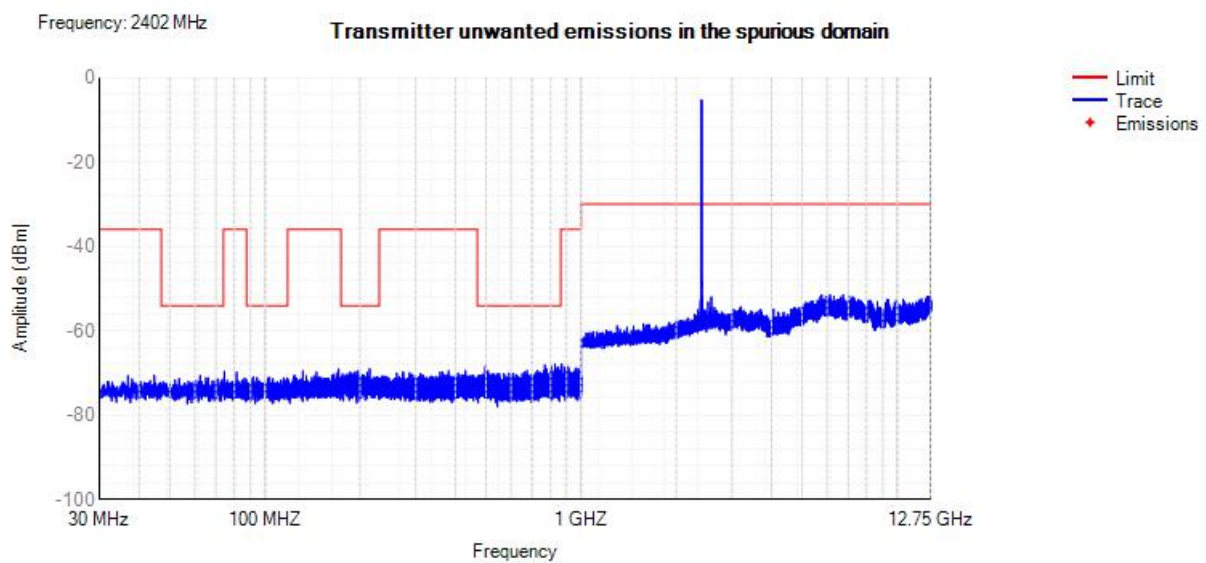


E.8 Transmitter unwanted emissions in the spurious domain

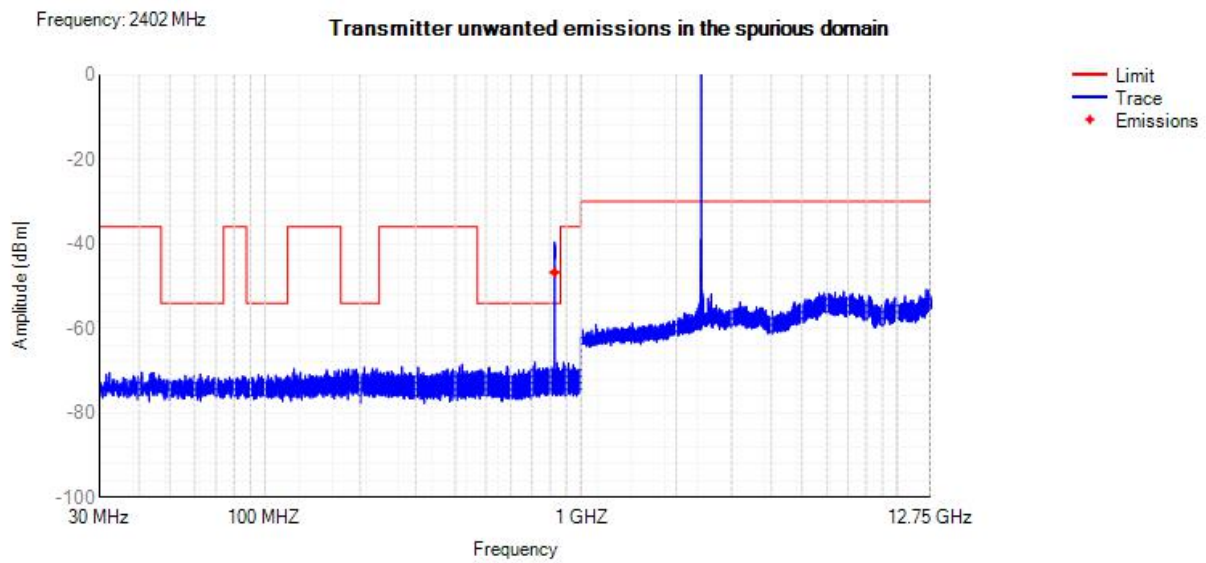
Tx. Spurious NVNT 1-DH5 2402MHz



Tx. Spurious NVNT 2-DH5 2402MHz



Tx. Spurious NVNT 3-DH5 2402MHz



Tx. Spurious NVNT 1-DH5

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 0 (2402MHz)					
64.63	H	-66.79	-54.00	-12.79	PK
87.42	V	-40.32	-36.00	-4.32	PK
826.35	H	-37.54	-36.00	-1.54	PK
893.59	V	-40.62	-36.00	-4.62	PK
4804.54	H	-42.88	-30.00	-12.88	PK
4804.99	V	-39.33	-30.00	-9.33	PK
7203.73	H	-37.79	-30.00	-7.79	PK
7202.38	V	-43.40	-30.00	-13.40	PK
Channel 78 (2480MHz)					
68.38	H	-66.40	-54.00	-12.40	PK
161.92	V	-43.98	-36.00	-7.98	PK
536.70	H	-69.92	-54.00	-15.92	PK
302.57	V	-43.40	-36.00	-7.40	PK
4963.18	H	-35.39	-30.00	-5.39	PK
4961.58	V	-39.82	-30.00	-9.82	PK
7441.77	H	-43.61	-30.00	-13.61	PK
7442.47	V	-43.45	-30.00	-13.45	PK

Tx. Spurious NVNT 2-DH5

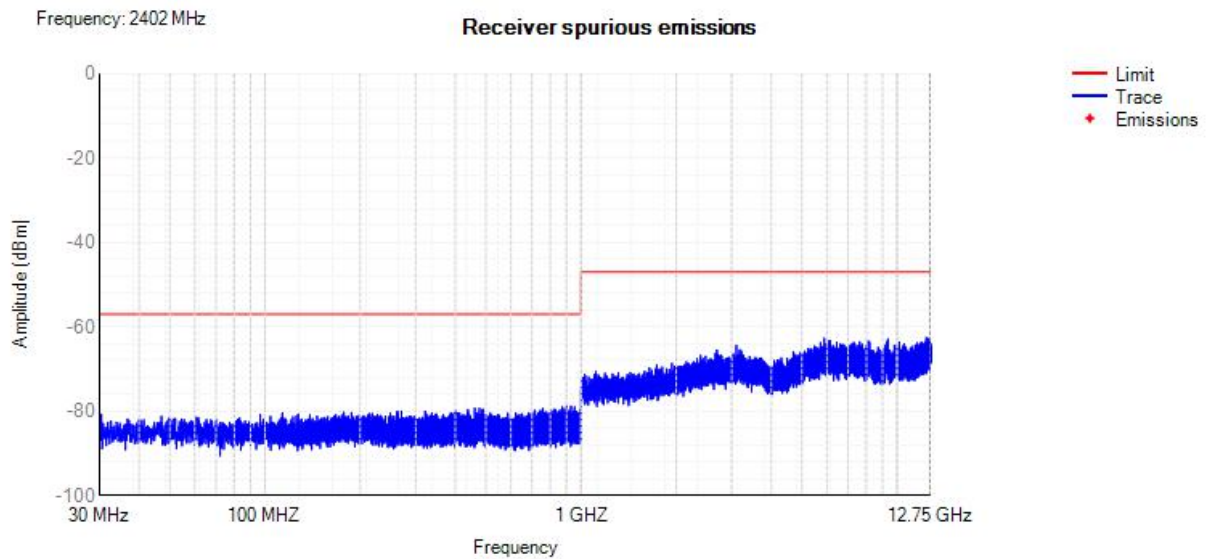
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 0 (2402MHz)					
44.05	H	-49.00	-36.00	-13.00	PK
55.04	V	-58.42	-54.00	-4.42	PK
285.86	H	-40.46	-36.00	-4.46	PK
341.59	V	-48.39	-36.00	-12.39	PK
4803.62	H	-42.46	-30.00	-12.46	PK
4803.37	V	-41.56	-30.00	-11.56	PK
7205.03	H	-35.95	-30.00	-5.95	PK
7205.06	V	-35.26	-30.00	-5.26	PK
Channel 78 (2480MHz)					
43.43	H	-38.79	-36.00	-2.79	PK
108.98	V	-59.58	-54.00	-5.58	PK
265.66	H	-43.12	-36.00	-7.12	PK
968.70	V	-45.54	-36.00	-9.54	PK
4961.09	H	-41.60	-30.00	-11.60	PK
4962.94	V	-40.26	-30.00	-10.26	PK
7441.02	H	-39.09	-30.00	-9.09	PK
7441.46	V	-40.71	-30.00	-10.71	PK

Tx. Spurious NVNT 3-DH5

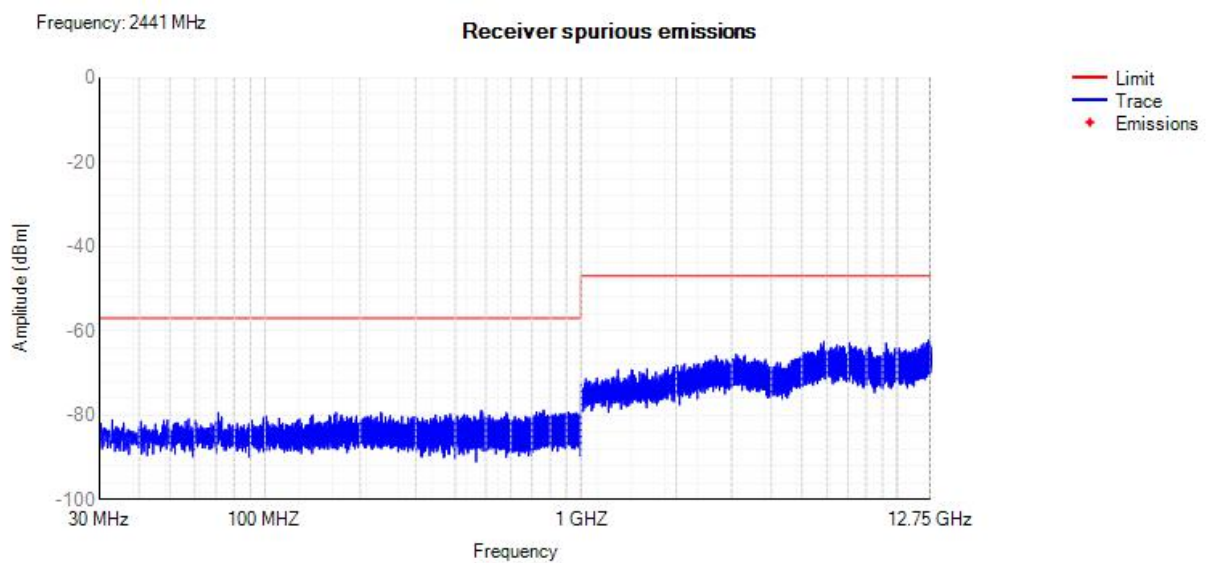
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 0 (2402MHz)					
78.05	H	-38.82	-36.00	-2.82	PK
44.33	V	-47.00	-36.00	-11.00	PK
923.20	H	-47.78	-36.00	-11.78	PK
904.48	V	-41.72	-36.00	-5.72	PK
4804.23	H	-35.29	-30.00	-5.29	PK
4803.87	V	-41.17	-30.00	-11.17	PK
7205.57	H	-44.31	-30.00	-14.31	PK
7203.18	V	-42.82	-30.00	-12.82	PK
Channel 78 (2480MHz)					
135.04	H	-40.06	-36.00	-4.06	PK
33.15	V	-46.90	-36.00	-10.90	PK
464.84	H	-40.46	-36.00	-4.46	PK
211.06	V	-65.05	-54.00	-11.05	PK
4961.36	H	-43.12	-30.00	-13.12	PK
4961.42	V	-41.48	-30.00	-11.48	PK
7440.06	H	-37.31	-30.00	-7.31	PK
7440.09	V	-38.83	-30.00	-8.83	PK

E.9 Receiver spurious emissions

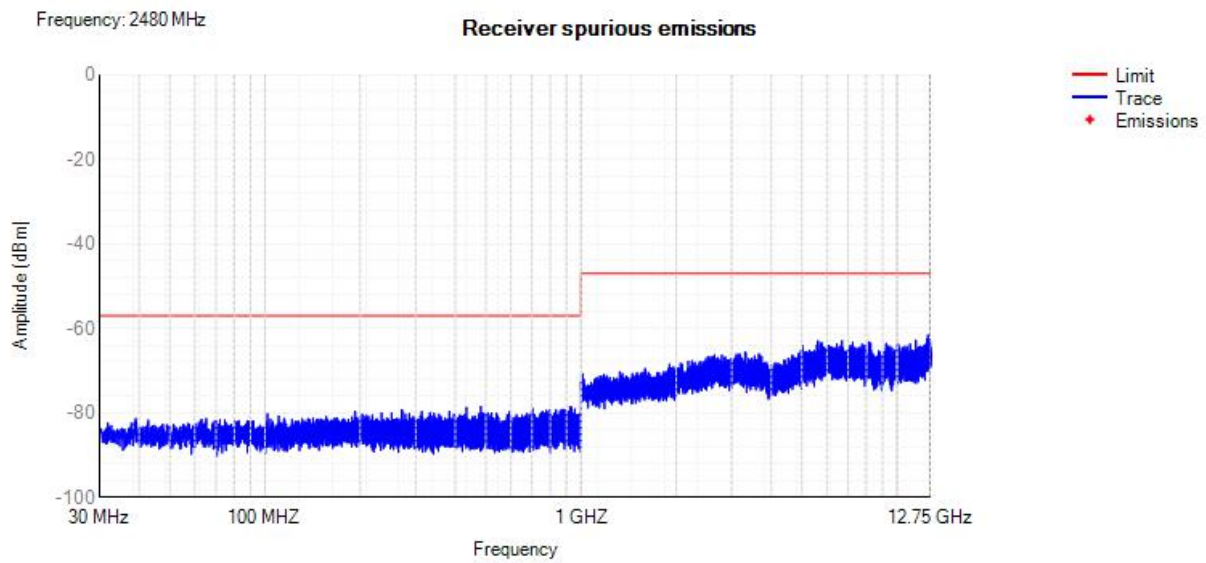
Rx. Spurious NVNT 1-DH5 2402MHz



Rx. Spurious NVNT 1-DH5 2441MHz



Rx. Spurious NVNT 1-DH5 2480MHz



Rx. Spurious NVNT 1-DH5

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 0 (2402MHz)					
401.47	H	-70.29	-57.00	-13.29	PK
567.82	V	-70.60	-57.00	-13.60	PK
650.74	H	-70.14	-57.00	-13.14	PK
537.20	V	-67.32	-57.00	-10.32	PK
3194.37	H	-60.65	-47.00	-13.65	PK
2497.01	V	-58.33	-47.00	-11.33	PK
4393.91	H	-57.81	-47.00	-10.81	PK
3562.19	V	-59.90	-47.00	-12.90	PK
Channel 78 (2480MHz)					
407.97	H	-68.28	-57.00	-11.28	PK
496.95	V	-67.29	-57.00	-10.29	PK
649.48	H	-71.84	-57.00	-14.84	PK
836.14	V	-68.65	-57.00	-11.65	PK
3142.71	H	-59.26	-47.00	-12.26	PK
2134.29	V	-61.88	-47.00	-14.88	PK
4475.58	H	-61.48	-47.00	-14.48	PK
3354.00	V	-57.68	-47.00	-10.68	PK

Rx. Spurious NVNT 2-DH5

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 0 (2402MHz)					
213.85	H	-67.79	-57.00	-10.79	PK
544.77	V	-67.82	-57.00	-10.82	PK
536.59	H	-71.39	-57.00	-14.39	PK
502.82	V	-68.83	-57.00	-11.83	PK
2646.15	H	-59.50	-47.00	-12.50	PK
3017.22	V	-57.08	-47.00	-10.08	PK
4047.38	H	-57.92	-47.00	-10.92	PK
3262.94	V	-58.86	-47.00	-11.86	PK
Channel 78 (2480MHz)					
500.46	H	-69.43	-57.00	-11.71	PK
480.29	V	-69.15	-57.00	-11.95	PK
778.85	H	-69.20	-57.00	-13.31	PK
684.03	V	-67.76	-57.00	-11.80	PK
3132.97	H	-59.82	-47.00	-13.80	PK
3190.78	V	-61.57	-47.00	-12.88	PK
3598.71	H	-57.98	-47.00	-12.43	PK
4089.44	V	-58.46	-47.00	-13.15	PK

Rx. Spurious NVNT 3-DH5

Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 0 (2402MHz)					
419.40	H	-70.26	-57.00	-13.26	PK
477.28	V	-68.03	-57.00	-11.03	PK
764.30	H	-67.36	-57.00	-10.36	PK
564.67	V	-71.08	-57.00	-14.08	PK
2619.08	H	-59.65	-47.00	-12.65	PK
1877.88	V	-61.99	-47.00	-14.99	PK
4441.02	H	-60.28	-47.00	-13.28	PK
3997.91	V	-61.94	-47.00	-14.94	PK
Channel 78 (2480MHz)					
218.62	H	-68.89	-57.00	-11.89	PK
429.58	V	-68.81	-57.00	-11.81	PK
659.82	H	-68.18	-57.00	-11.18	PK
676.91	V	-70.23	-57.00	-13.23	PK
1818.11	H	-59.82	-47.00	-12.82	PK
2529.43	V	-61.57	-47.00	-14.57	PK
3960.31	H	-61.81	-47.00	-14.81	PK
4694.28	V	-57.10	-47.00	-10.10	PK

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	
DH1	2402	-70	2380	-30.1	≥ -34	CW	6.46	10	Pass
			2504	-30.2	≥ -34	CW	6.22	10	Pass
			2300	-30.1	≥ -34	CW	6.06	10	Pass
			2584	-30.8	≥ -34	CW	6.07	10	Pass
	2480	-70	2380	-29.7	≥ -34	CW	6.18	10	Pass
			2504	-30.0	≥ -34	CW	6.13	10	Pass
			2300	-30.1	≥ -34	CW	6.34	10	Pass
			2584	-29.1	≥ -34	CW	6.18	10	Pass
2DH1	2402	-68	2380	-29.2	≥ -34	CW	6.29	10	Pass
			2504	-29.8	≥ -34	CW	6.48	10	Pass
			2300	-29.2	≥ -34	CW	6.49	10	Pass
			2584	-29.9	≥ -34	CW	6.39	10	Pass
	2480	-68	2380	-30.1	≥ -34	CW	6.04	10	Pass
			2504	-30.2	≥ -34	CW	6.18	10	Pass
			2300	-29.5	≥ -34	CW	6.06	10	Pass
			2584	-30.2	≥ -34	CW	6.20	10	Pass
3DH1	2402	-68	2380	-30.0	≥ -34	CW	6.14	10	Pass
			2504	-30.8	≥ -34	CW	6.30	10	Pass
			2300	-30.9	≥ -34	CW	6.00	10	Pass
			2584	-30.3	≥ -34	CW	6.03	10	Pass
	2480	-68	2380	-30.5	≥ -34	CW	6.16	10	Pass
			2504	-30.7	≥ -34	CW	6.23	10	Pass
			2300	-29.7	≥ -34	CW	6.32	10	Pass
			2584	-30.1	≥ -34	CW	6.00	10	Pass