



Appendix E for BT RF Test Data

Product Name: myFirst Fone S3

Test Model: KW1401

Environmental Conditions

Temperature:	23.1°C
Relative Humidity:	54.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan





## E.1 RF Output Power

Condition	Mode	Frequency (MHz)	Max EIRP (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	1.26	20	Pass
NVNT	1-DH5	2480	1.41	20	Pass
NVNT	2-DH5	2402	1.32	20	Pass
NVNT	2-DH5	2480	1.46	20	Pass
NVNT	3-DH5	2402	1.32	20	Pass
NVNT	3-DH5	2480	1.62	20	Pass

Condition	Mode	Frequency (MHz)	Max EIRP (dBm)	Limit (dBm)	Verdict
NVLT	1-DH5	2402	1.13	20	Pass
NVLT	1-DH5	2480	1.33	20	Pass
NVLT	2-DH5	2402	1.24	20	Pass
NVLT	2-DH5	2480	1.27	20	Pass
NVLT	3-DH5	2402	1.27	20	Pass
NVLT	3-DH5	2480	1.41	20	Pass

Condition	Mode	Frequency (MHz)	Max EIRP (dBm)	Limit (dBm)	Verdict
NVHT	1-DH5	2402	1.05	20	Pass
NVHT	1-DH5	2480	1.20	20	Pass
NVHT	2-DH5	2402	1.11	20	Pass
NVHT	2-DH5	2480	1.15	20	Pass
NVHT	3-DH5	2402	1.21	20	Pass
NVHT	3-DH5	2480	1.35	20	Pass

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

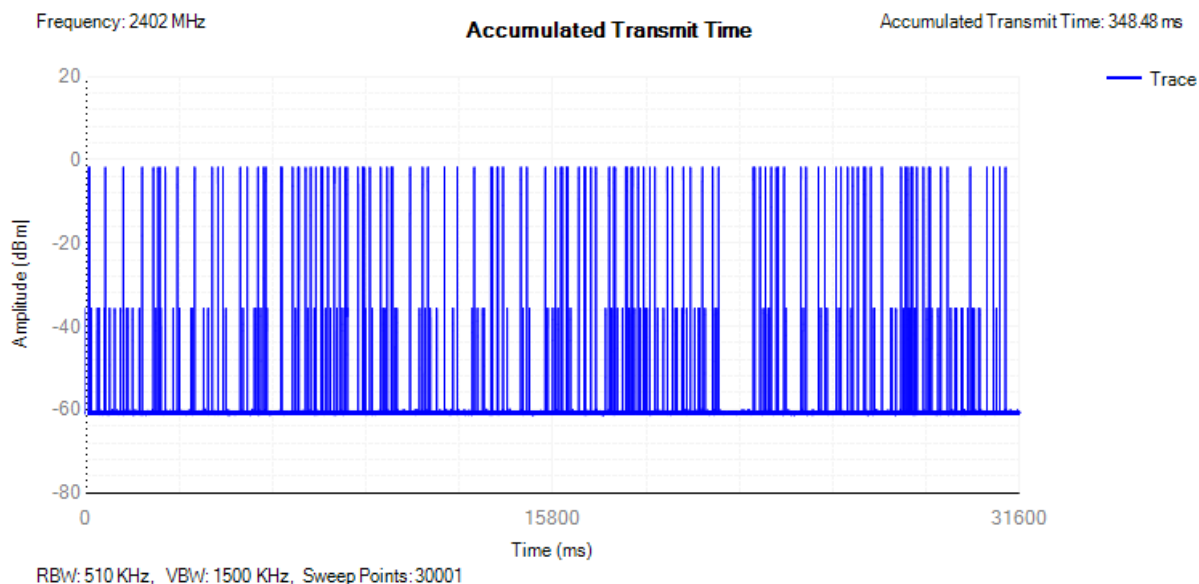




## E.2 Accumulated Transmit Time

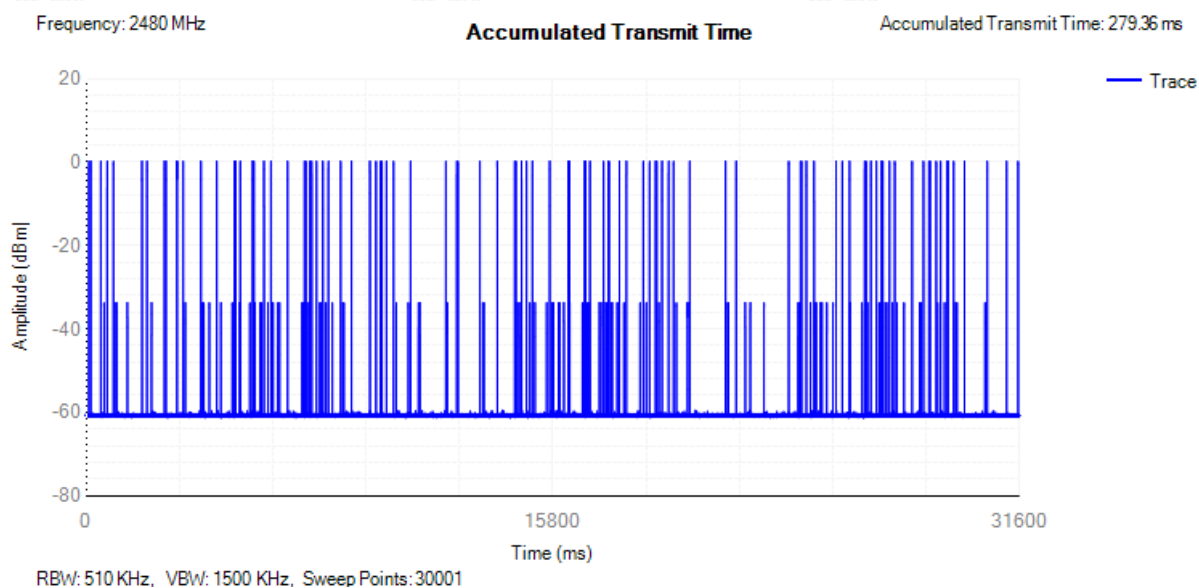
Condition	Mode	Frequency (MHz)	Accumulated Transmit Time (ms)	Limit (ms)	Sweep Time (ms)	Burst Number	Verdict
NVNT	1-DH5	2402	348.48	400	31600	121	Pass
NVNT	1-DH5	2480	279.36	400	31600	97	Pass
NVNT	2-DH5	2402	295.92	400	31600	108	Pass
NVNT	2-DH5	2480	265.78	400	31600	97	Pass
NVNT	3-DH5	2402	313.5	400	31600	114	Pass
NVNT	3-DH5	2480	335.5	400	31600	122	Pass

Dwell NVNT 1-DH5 2402MHz

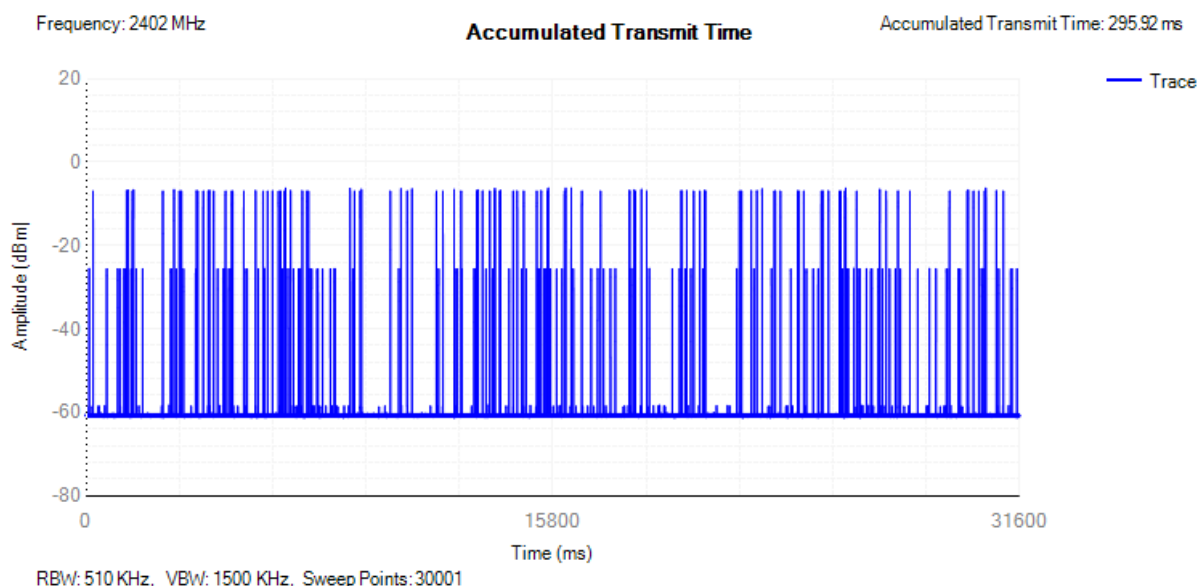




## Dwell NVNT 1-DH5 2480MHz

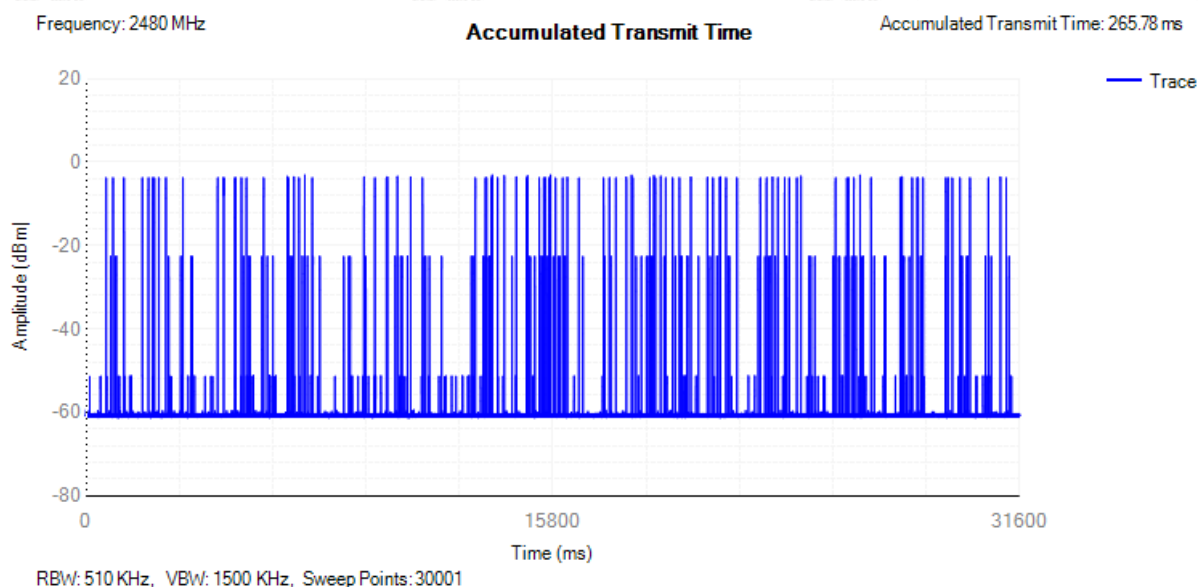


## Dwell NVNT 2-DH5 2402MHz

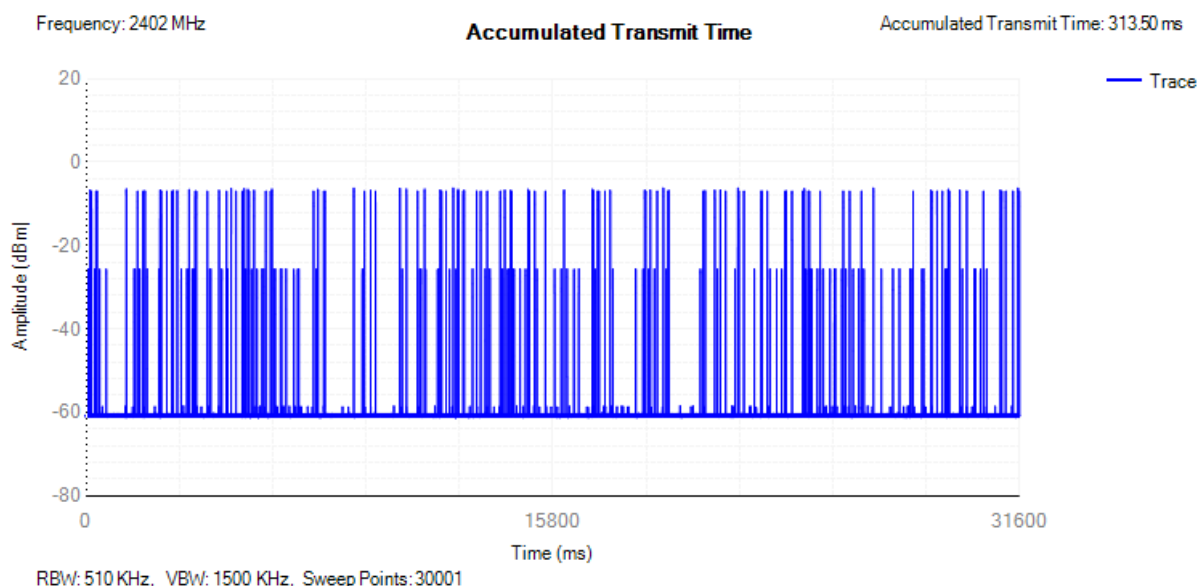




## Dwell NVNT 2-DH5 2480MHz

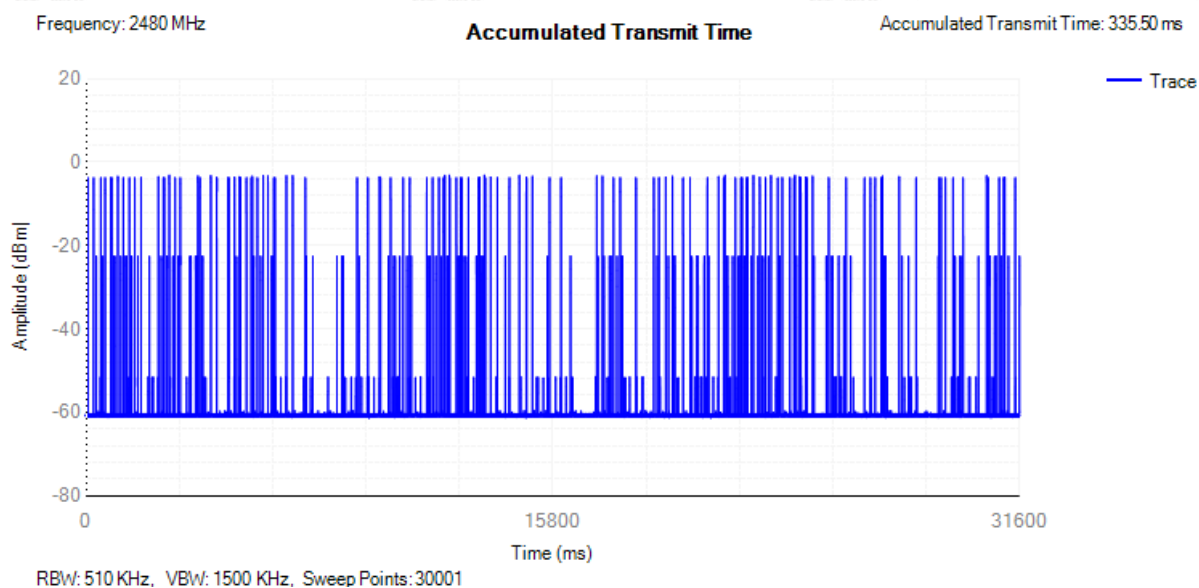


## Dwell NVNT 3-DH5 2402MHz





## Dwell NVNT 3-DH5 2480MHz

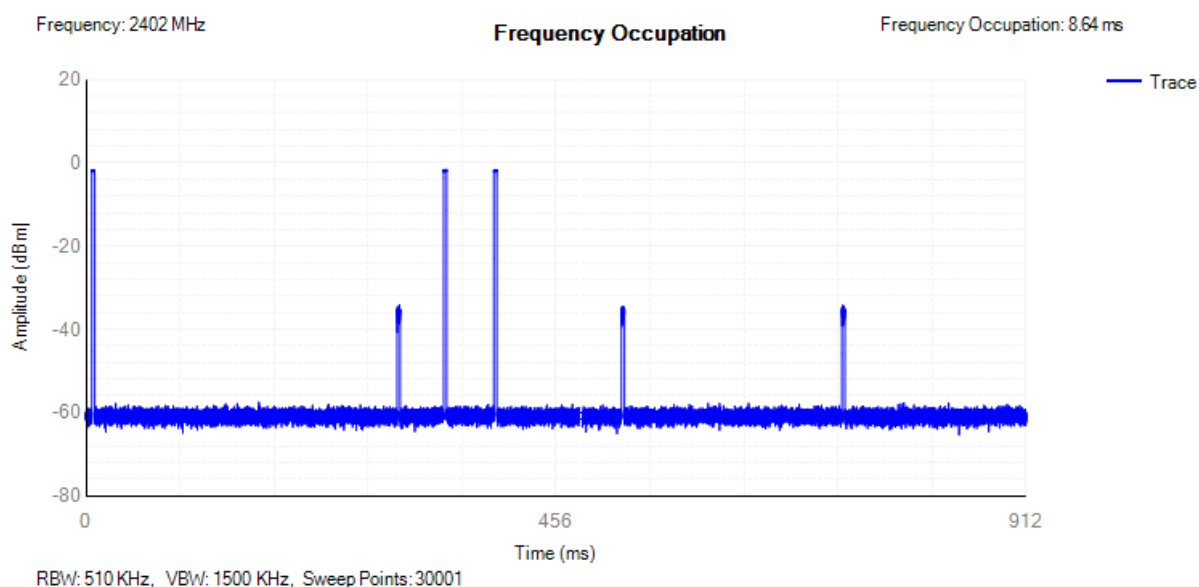




### E.3 Frequency Occupation

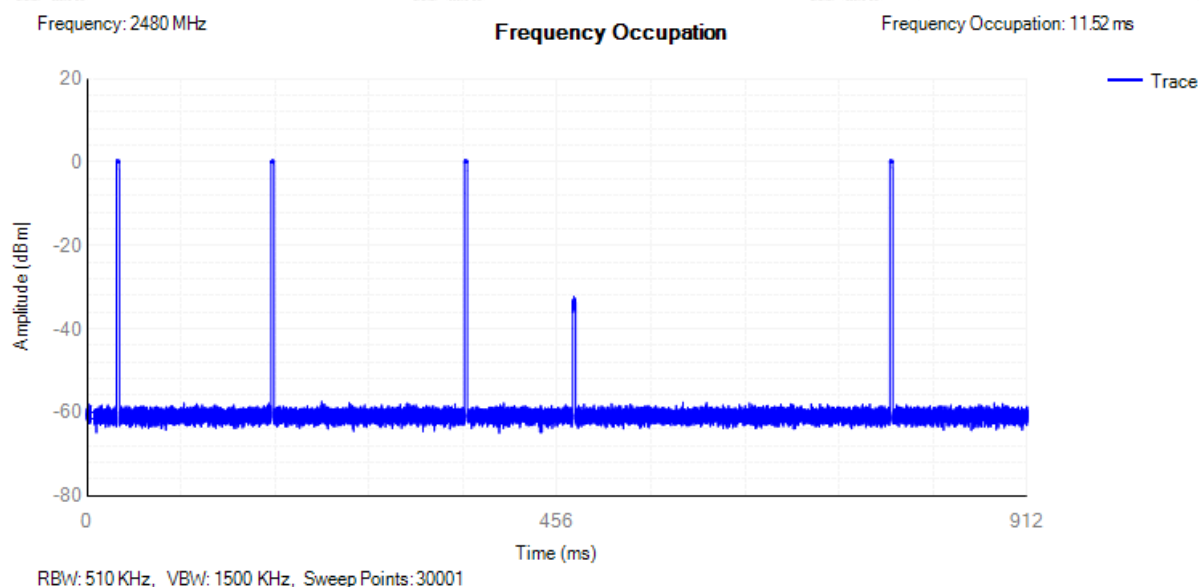
Condition	Mode	Frequency (MHz)	Frequency Occupation (ms)	Limit (ms)	Sweep Time (ms)	Burst Number	Verdict
NVNT	1-DH5	2402	8.64	0	910.08	3	Pass
NVNT	1-DH5	2480	11.52	0	910.08	4	Pass
NVNT	2-DH5	2402	2.74	0	865.84	1	Pass
NVNT	2-DH5	2480	5.48	0	865.84	2	Pass
NVNT	3-DH5	2402	5.5	0	869	2	Pass
NVNT	3-DH5	2480	8.25	0	869	3	Pass

Freq. Occup. NVNT 1-DH5 2402MHz

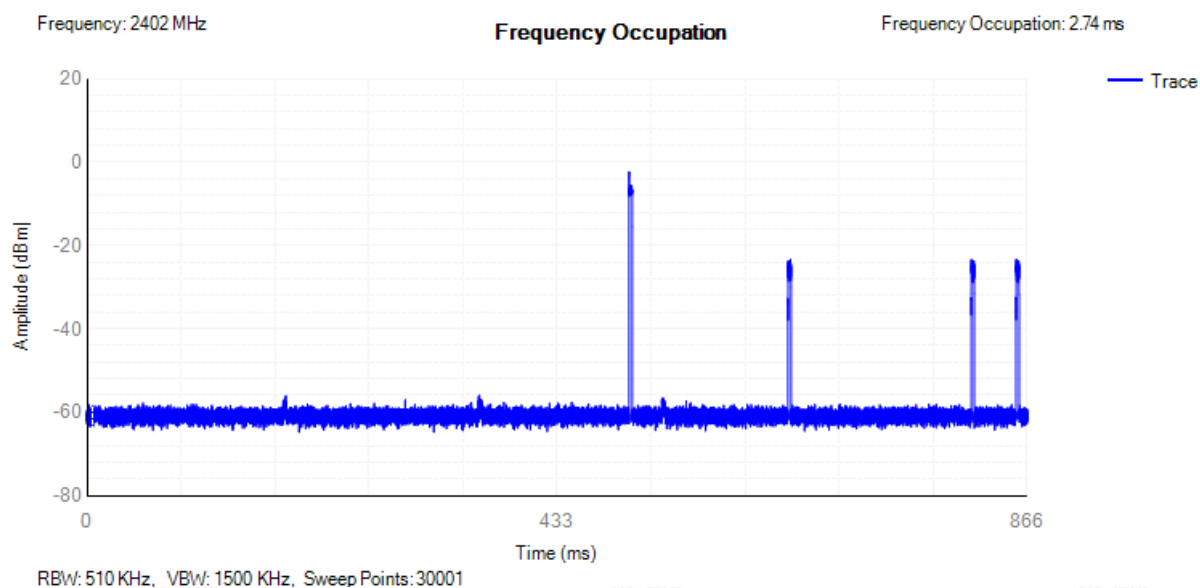




## Freq. Occup. NVNT 1-DH5 2480MHz



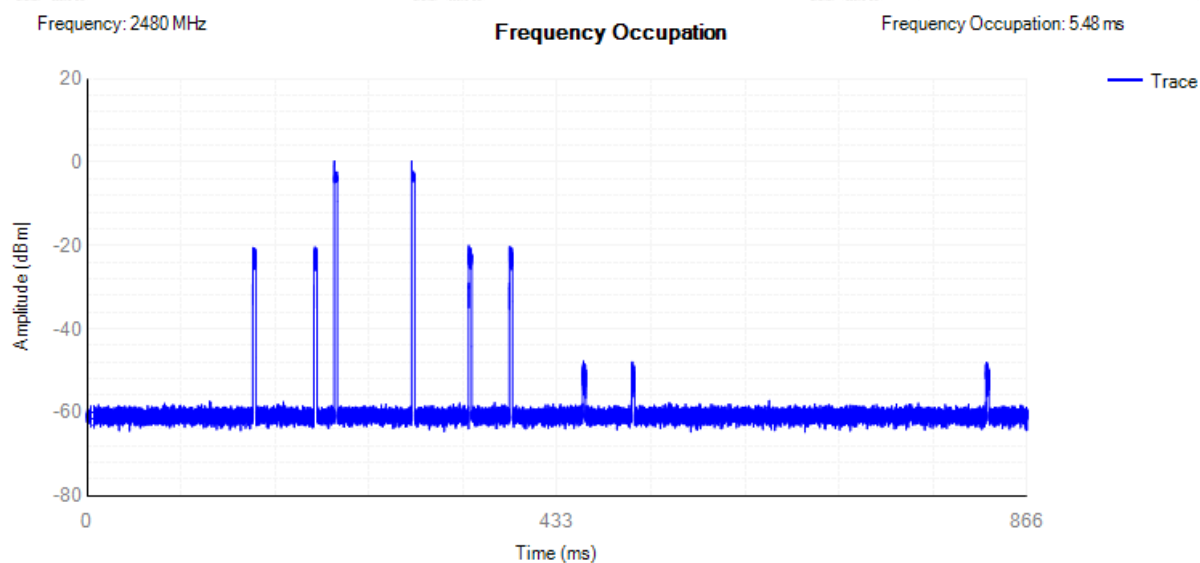
## Freq. Occup. NVNT 2-DH5 2402MHz





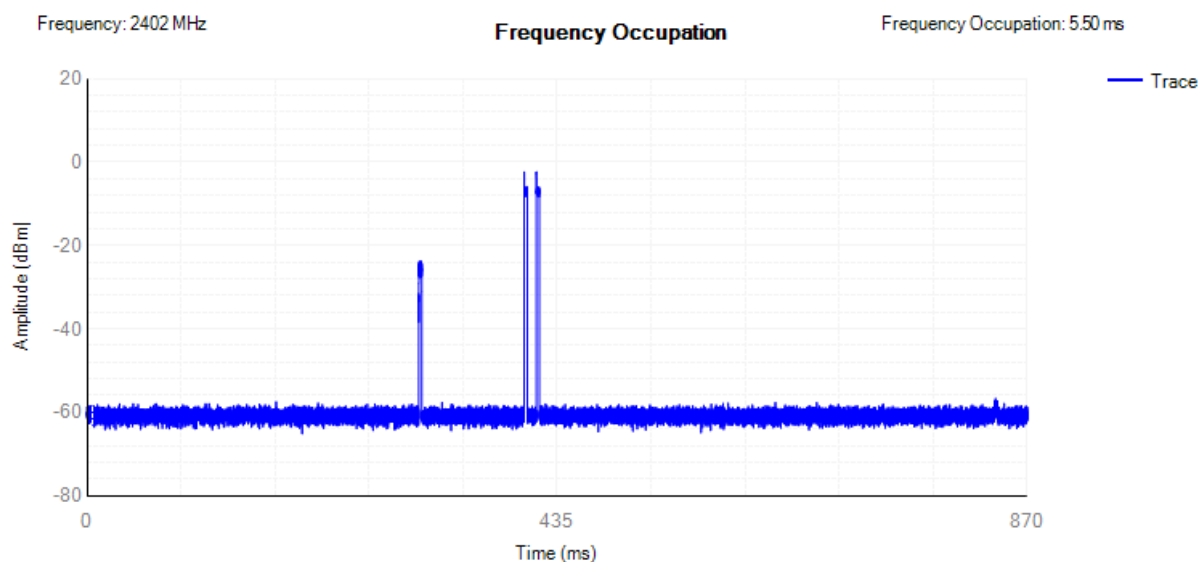


## Freq. Occup. NVNT 2-DH5 2480MHz



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

## Freq. Occup. NVNT 3-DH5 2402MHz

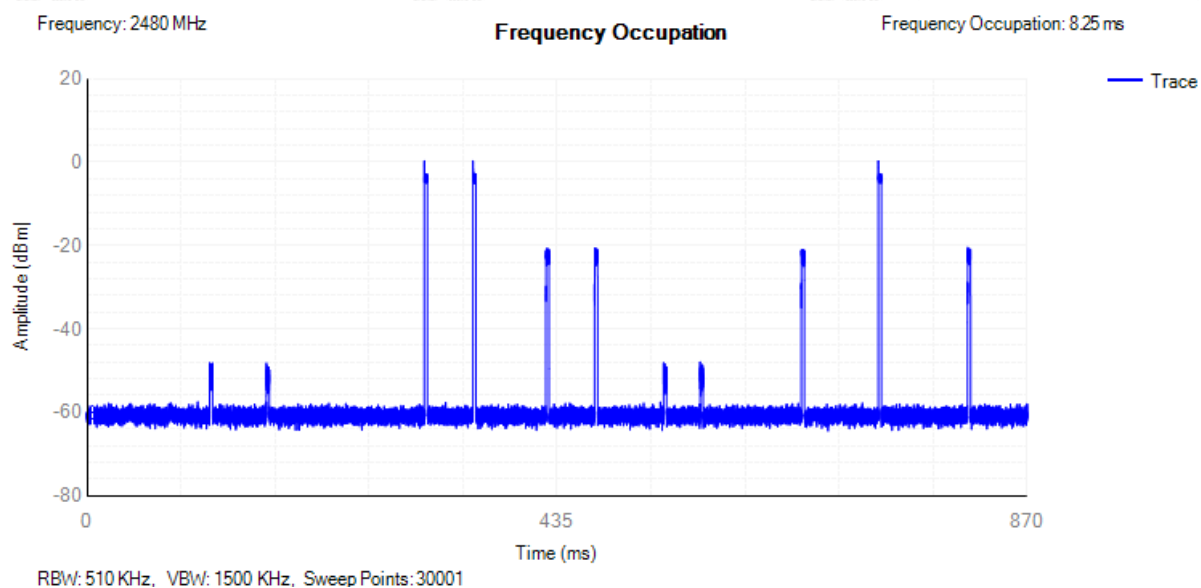


RBW: 510 KHz, VBW: 1500 KHz, Sweep Points: 30001





## Freq. Occup. NVNT 3-DH5 2480MHz

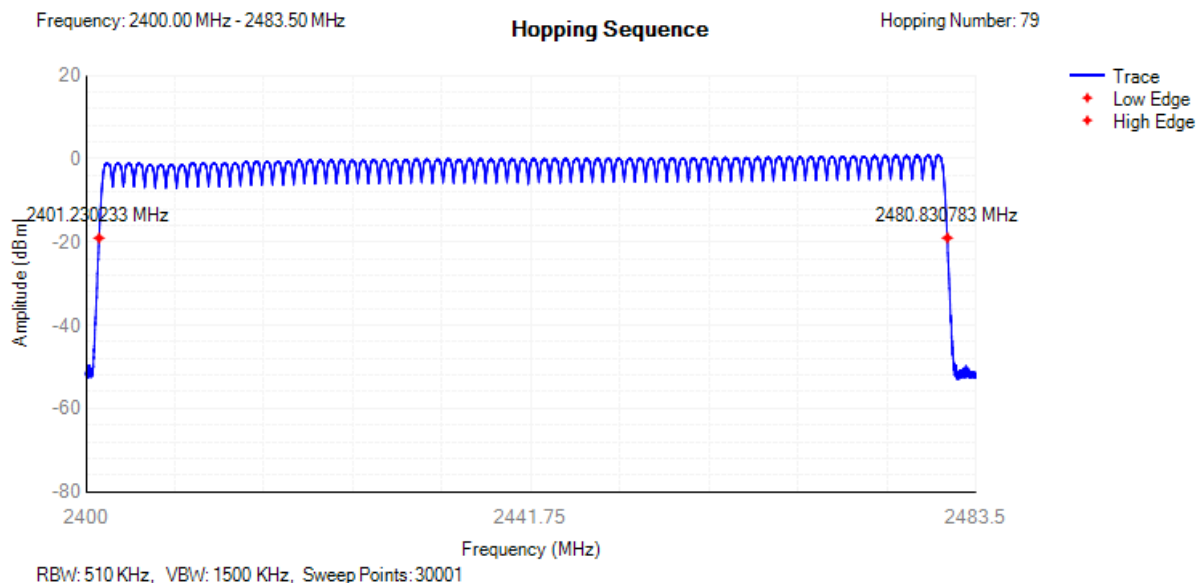




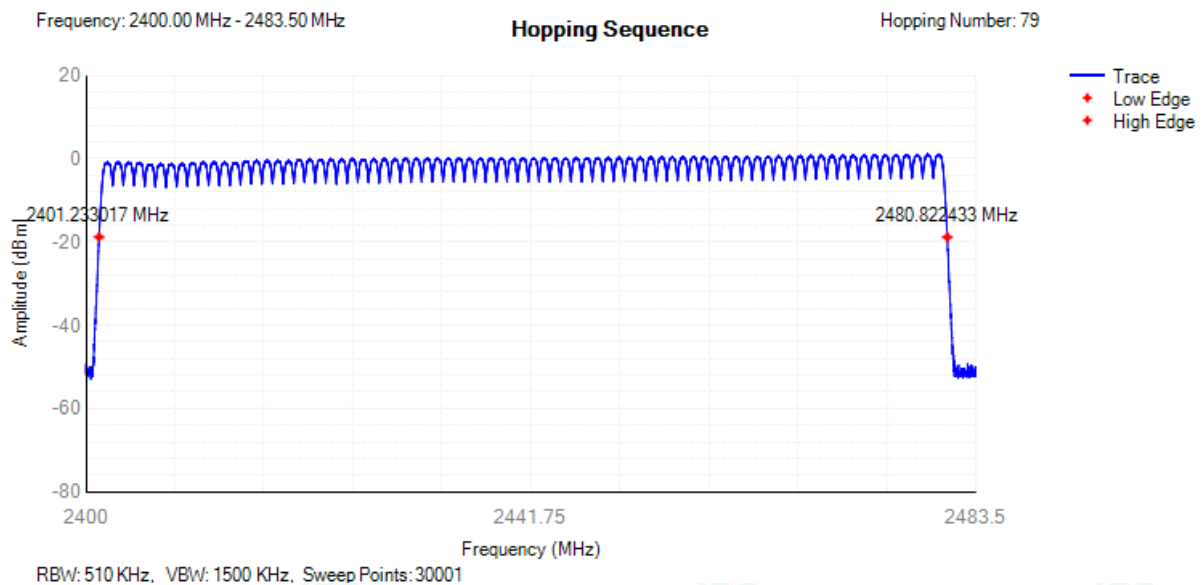
## E.4 Hopping Sequence

Condition	Mode	Hopping Number	Limit	Band Allocation (%)	Limit Band Allocation (%)	Verdict
NVNT	1-DH5	79	15	95.33	70	Pass
NVNT	1-DH5	79	15	95.31	70	Pass
NVNT	2-DH5	79	15	95.81	70	Pass
NVNT	2-DH5	79	15	95.76	70	Pass
NVNT	3-DH5	79	15	95.81	70	Pass
NVNT	3-DH5	79	15	95.79	70	Pass

Hopping Seq. NVNT 1-DH5 2402MHz

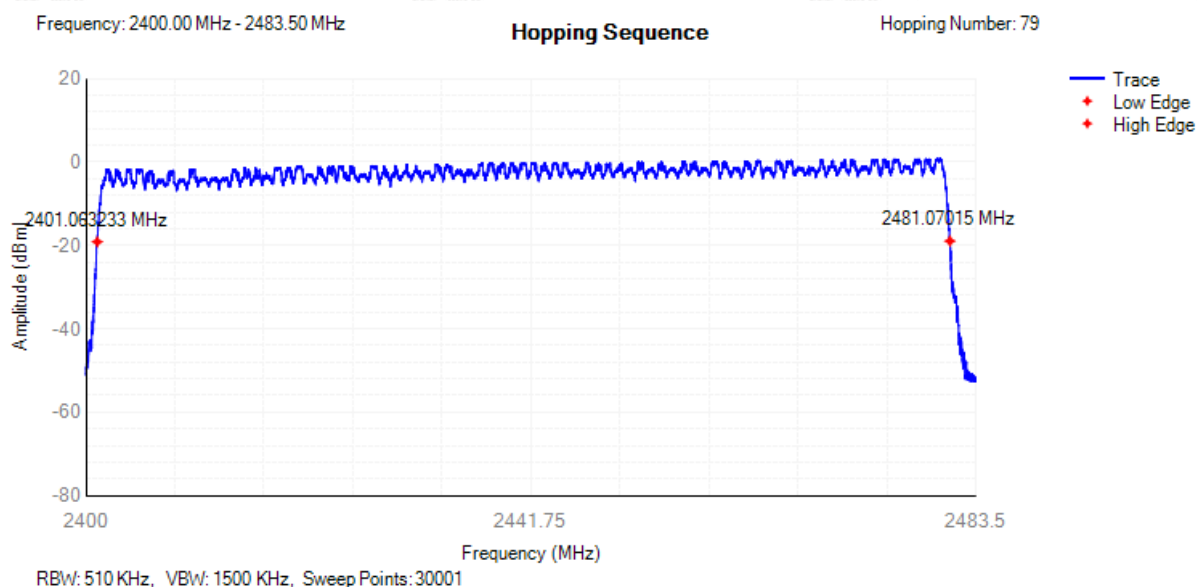


Hopping Seq. NVNT 1-DH5 2480MHz

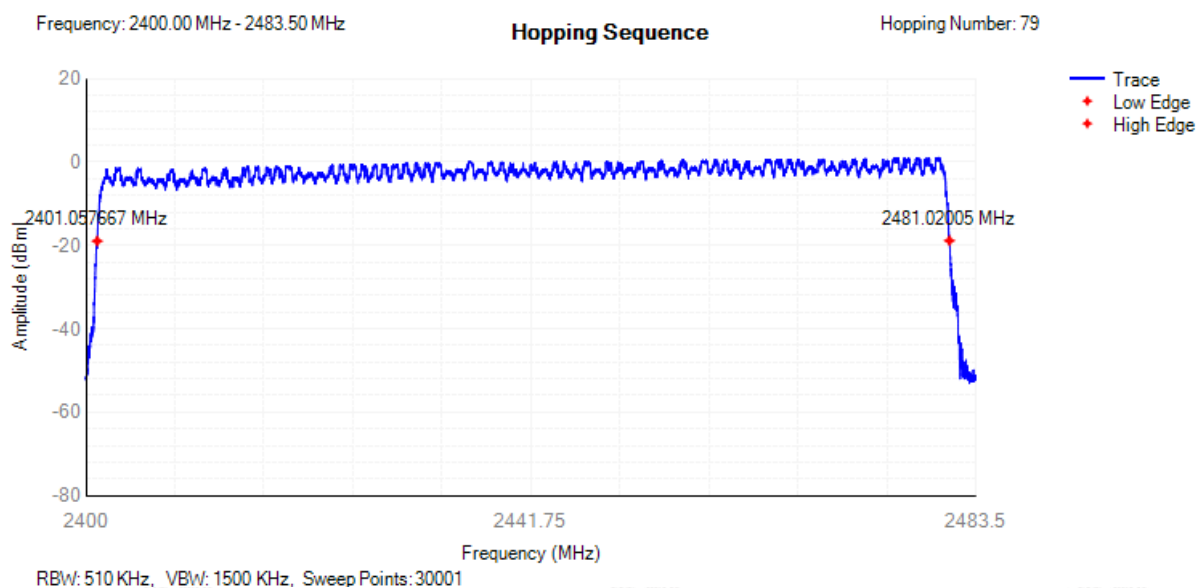




## Hopping Seq. NVNT 2-DH5 2402MHz

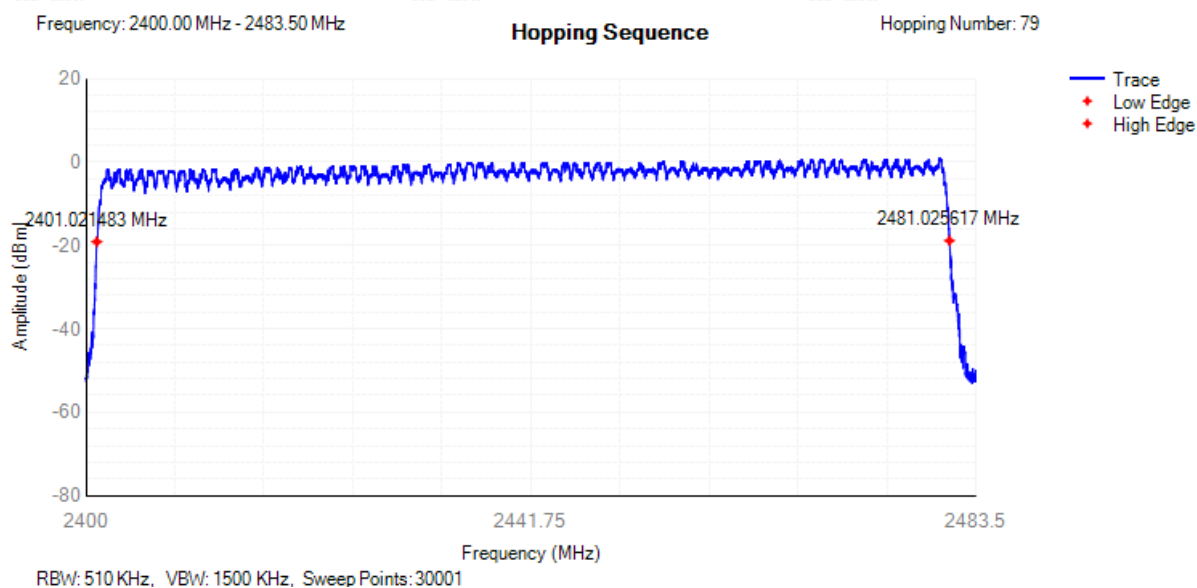


## Hopping Seq. NVNT 2-DH5 2480MHz

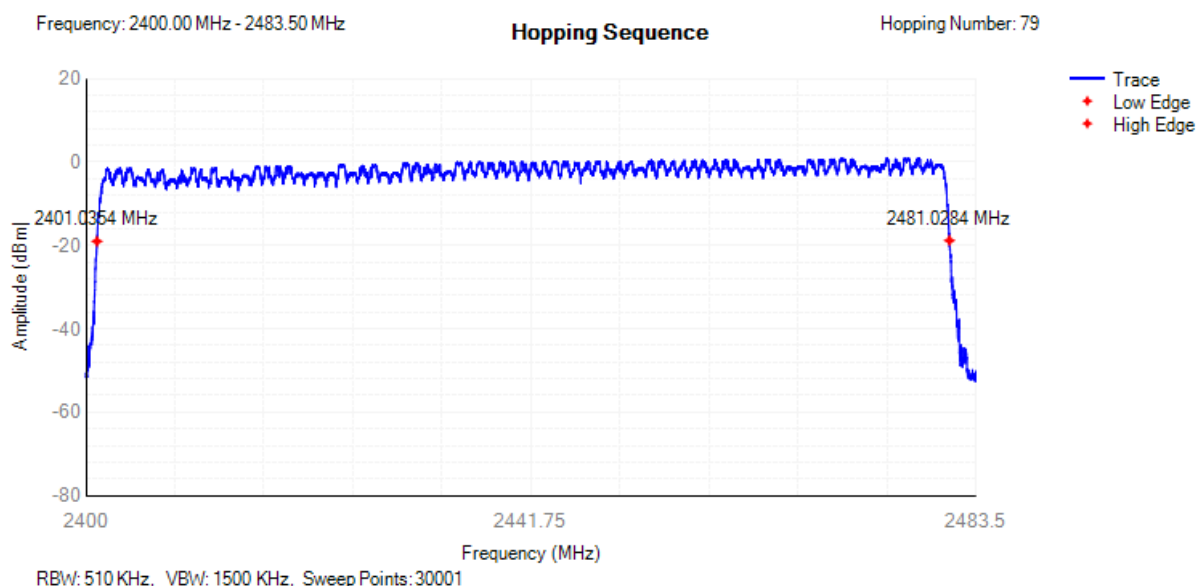




## Hopping Seq. NVNT 3-DH5 2402MHz



## Hopping Seq. NVNT 3-DH5 2480MHz





## E.5 Hopping Frequency Separation

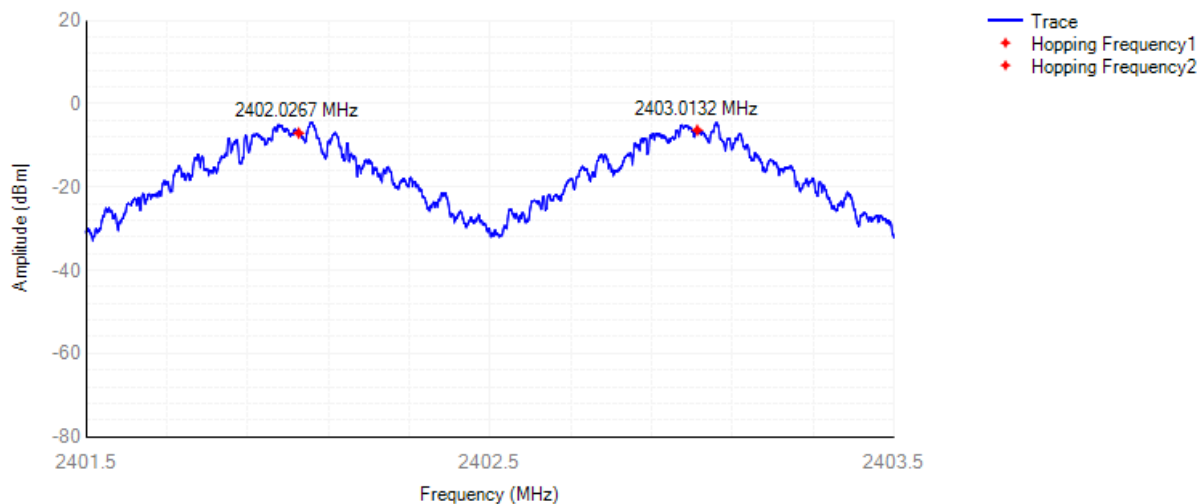
Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	2402.0267	2403.0132	0.98	0.1	Pass
NVNT	1-DH5	2478.9997	2480.0373	1.03	0.1	Pass
NVNT	2-DH5	2402.1164	2402.8536	0.73	0.1	Pass
NVNT	2-DH5	2478.9984	2480.0838	1.08	0.1	Pass
NVNT	3-DH5	2402.1396	2402.9863	0.84	0.1	Pass
NVNT	3-DH5	2479.0667	2479.7852	0.71	0.1	Pass

### HFS NVNT 1-DH5 2402MHz

Center Frequency: 2402.50 MHz

Hopping Frequency Separation

HFS: 0.98

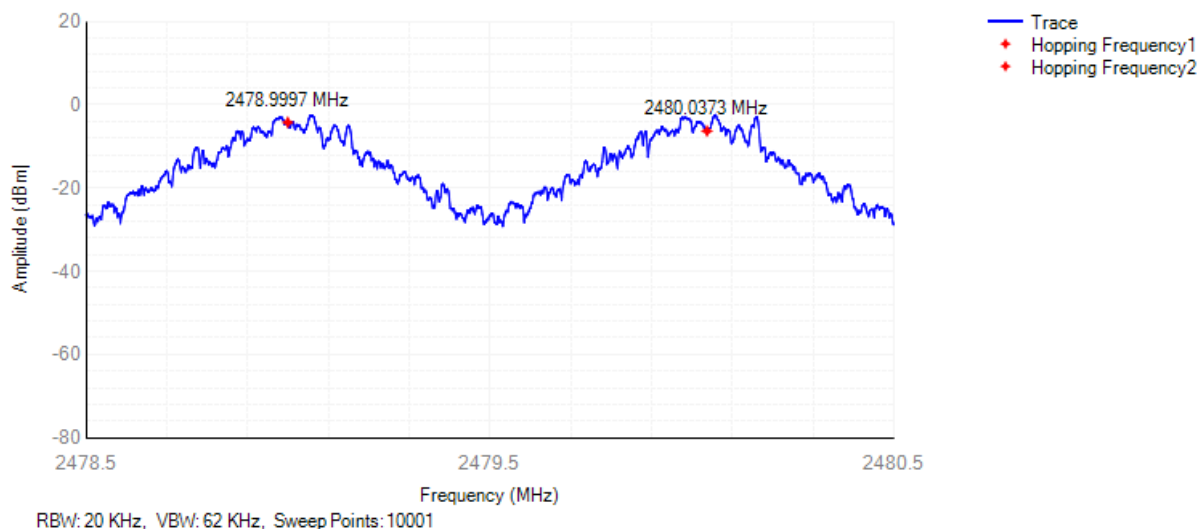


### HFS NVNT 1-DH5 2480MHz

Center Frequency: 2479.50 MHz

Hopping Frequency Separation

HFS: 1.03



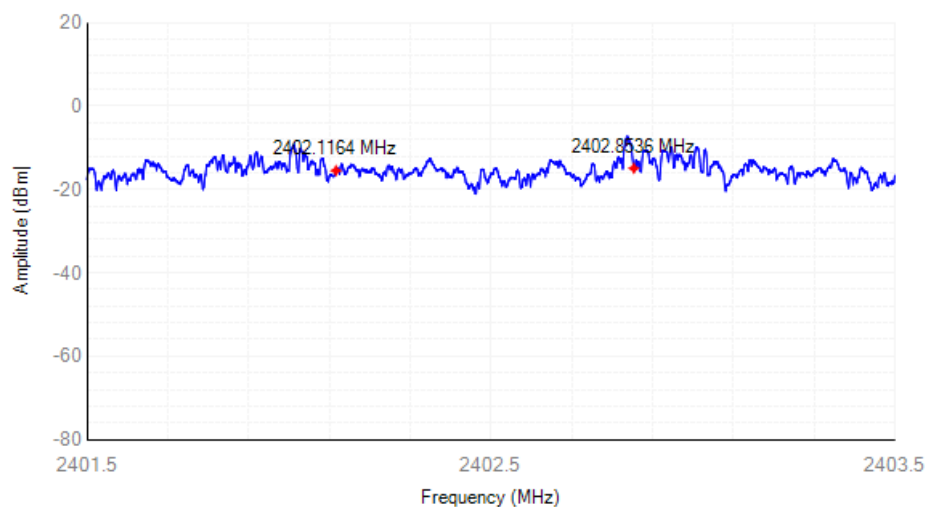


## HFS NVNT 2-DH5 2402MHz

Center Frequency: 2402.50 MHz

## Hopping Frequency Separation

HFS: 0.73

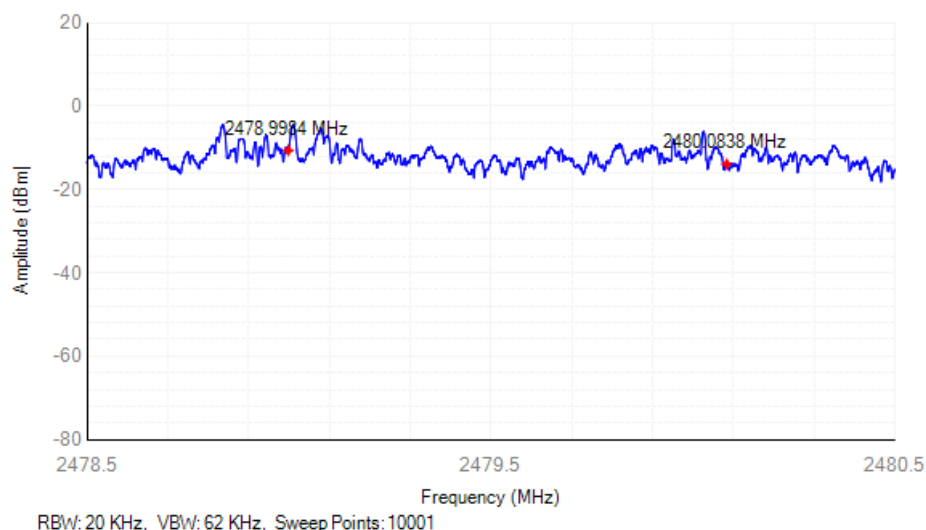


## HFS NVNT 2-DH5 2480MHz

Center Frequency: 2479.50 MHz

## Hopping Frequency Separation

HFS: 1.08



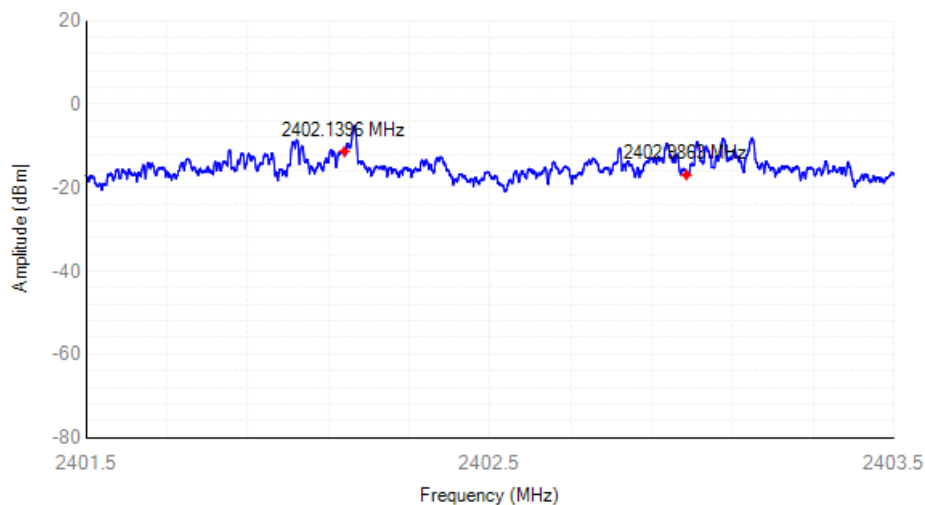


## HFS NVNT 3-DH5 2402MHz

Center Frequency: 2402.50 MHz

## Hopping Frequency Separation

HFS: 0.84



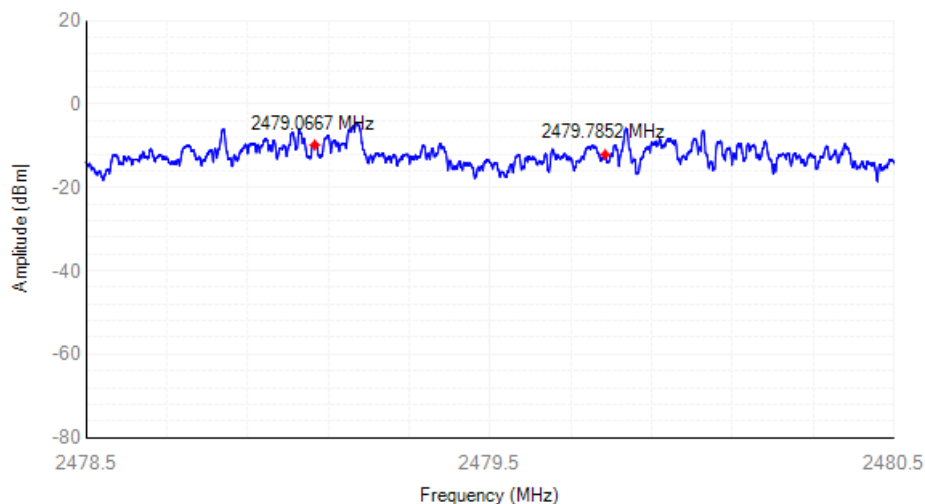
Trace  
+ Hopping Frequency1  
+ Hopping Frequency2

## HFS NVNT 3-DH5 2480MHz

Center Frequency: 2479.50 MHz

## Hopping Frequency Separation

HFS: 0.71



Trace  
+ Hopping Frequency1  
+ Hopping Frequency2



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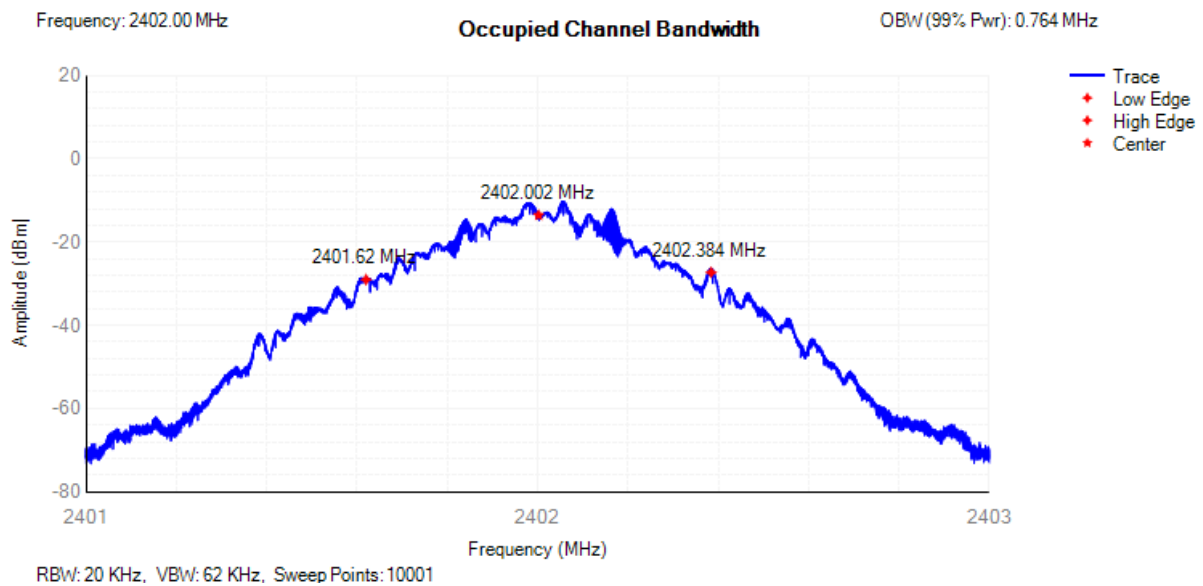




## E.6 Occupied Channel Bandwidth

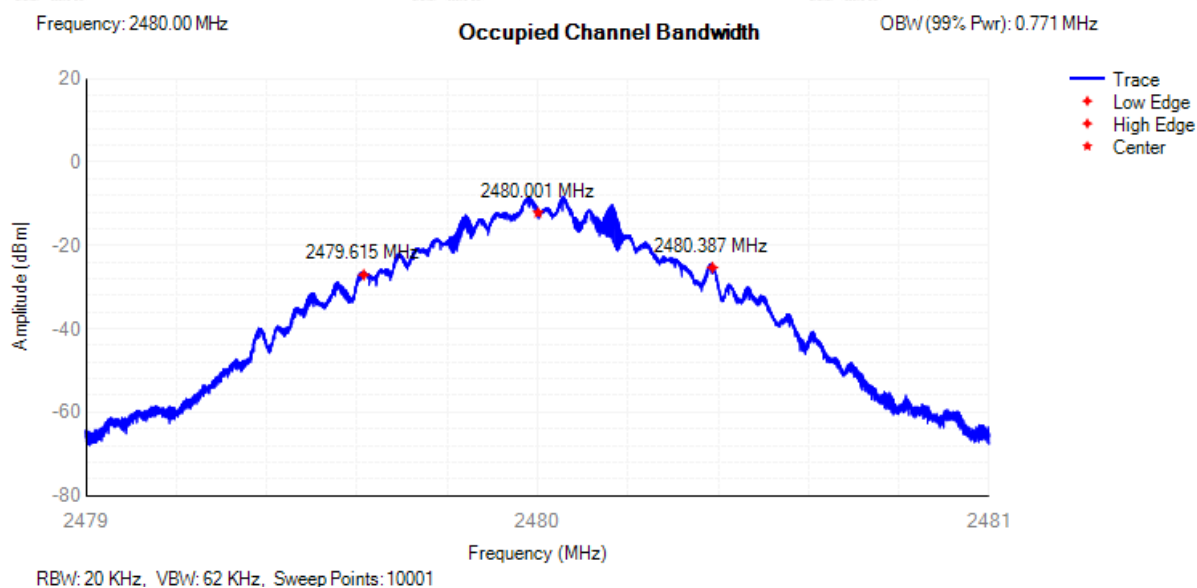
Condition	Mode	Frequency (MHz)	Center Frequency (MHz)	OBW (MHz)	Lower Edge (MHz)	Upper Edge (MHz)	Limit OBW (MHz)	Verdict
NVNT	1-DH5	2402	2402.002	0.764	2401.62	2402.384	2400 - 2483.5MHz	Pass
NVNT	1-DH5	2480	2480.001	0.771	2479.615	2480.387	2400 - 2483.5MHz	Pass
NVNT	2-DH5	2402	2401.994	1.161	2401.413	2402.575	2400 - 2483.5MHz	Pass
NVNT	2-DH5	2480	2479.996	1.173	2479.409	2480.583	2400 - 2483.5MHz	Pass
NVNT	3-DH5	2402	2401.997	1.174	2401.41	2402.584	2400 - 2483.5MHz	Pass
NVNT	3-DH5	2480	2479.995	1.187	2479.401	2480.588	2400 - 2483.5MHz	Pass

OBW NVNT 1-DH5 2402MHz

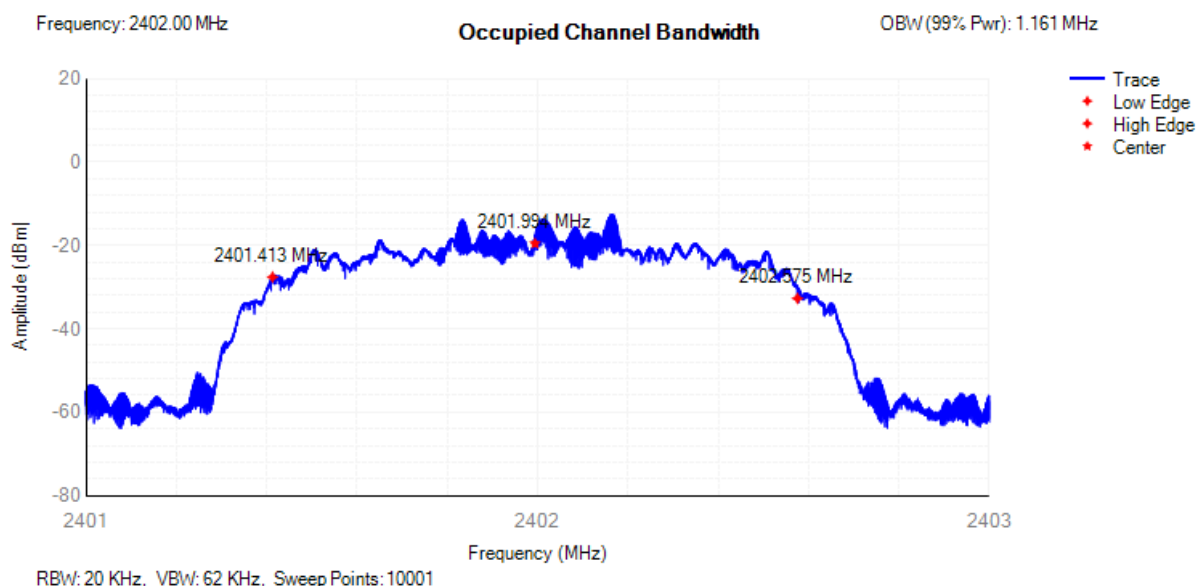




## OBW NVNT 1-DH5 2480MHz

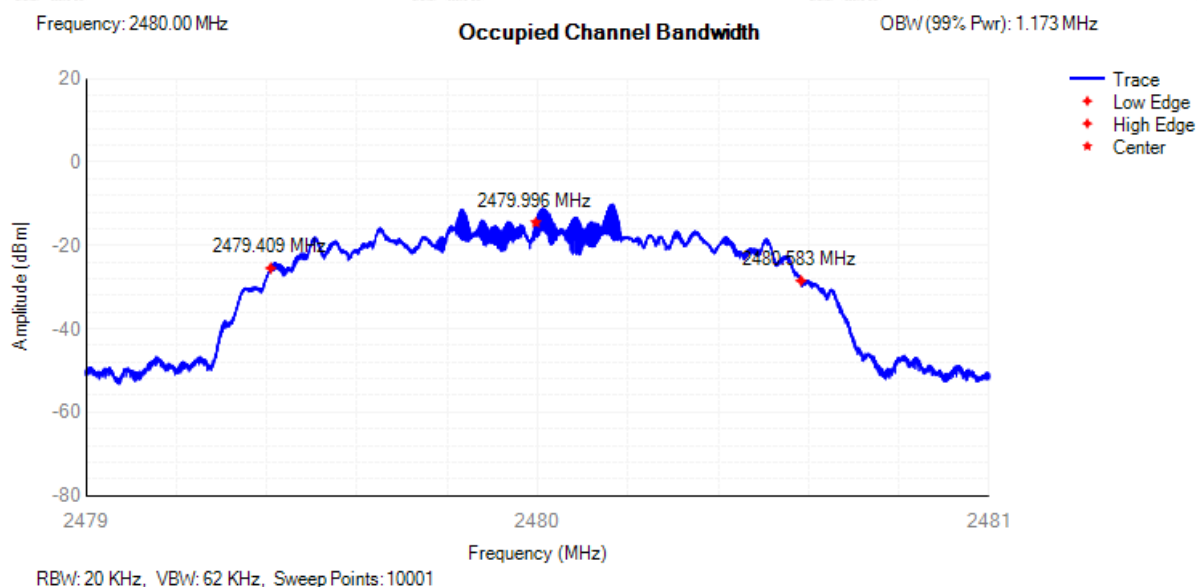


## OBW NVNT 2-DH5 2402MHz

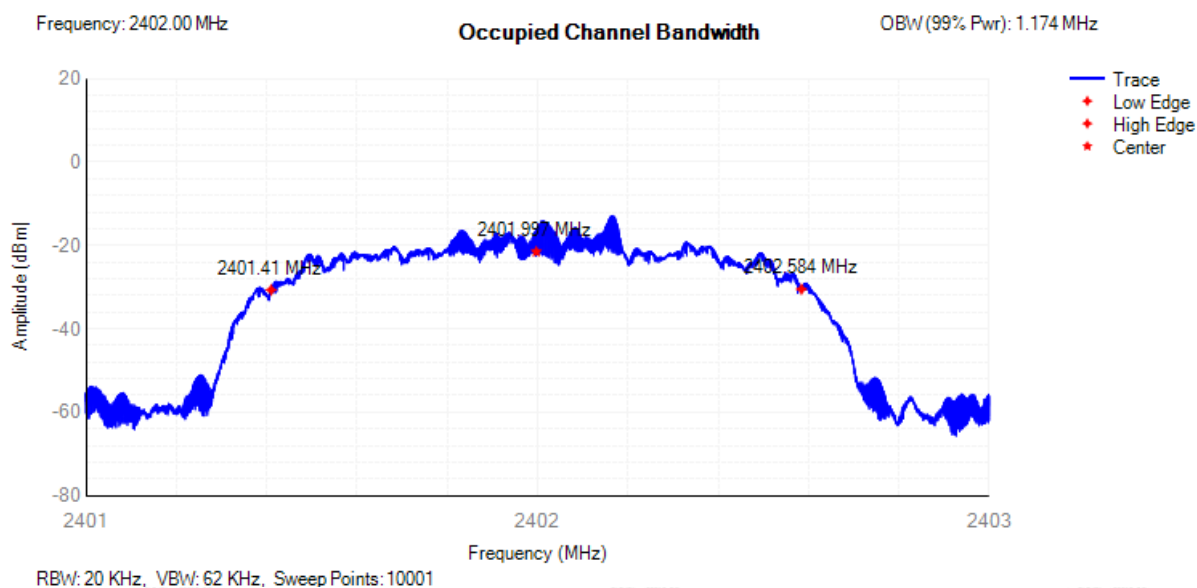




## OBW NVNT 2-DH5 2480MHz

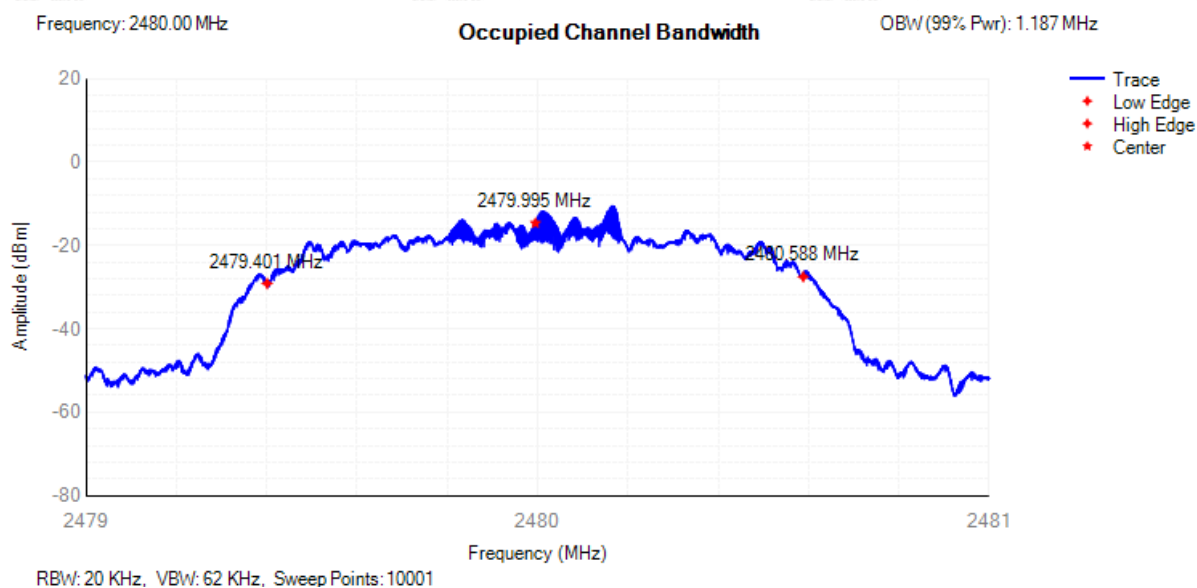


## OBW NVNT 3-DH5 2402MHz





## 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	-71.68	-10	Pass
NVNT	1-DH5	2402	2398.5	-75.82	-20	Pass
NVNT	1-DH5	2402	2484	-74.21	-10	Pass
NVNT	1-DH5	2402	2485	-76.78	-20	Pass
NVNT	1-DH5	2480	2399.5	-73.22	-10	Pass
NVNT	1-DH5	2480	2398.5	-75.36	-20	Pass
NVNT	1-DH5	2480	2484	-77.2	-10	Pass
NVNT	1-DH5	2480	2485	-72.45	-20	Pass
NVNT	2-DH5	2402	2399.5	-61.74	-10	Pass
NVNT	2-DH5	2402	2399.339	-64.47	-10	Pass
NVNT	2-DH5	2402	2398.339	-77.45	-20	Pass
NVNT	2-DH5	2402	2398.178	-74.4	-20	Pass
NVNT	2-DH5	2402	2484	-68.15	-10	Pass
NVNT	2-DH5	2402	2484.173	-71.89	-10	Pass
NVNT	2-DH5	2402	2485.173	-76.3	-20	Pass
NVNT	2-DH5	2402	2485.346	-76.82	-20	Pass
NVNT	2-DH5	2480	2399.5	-61.54	-10	Pass
NVNT	2-DH5	2480	2399.339	-64.29	-10	Pass
NVNT	2-DH5	2480	2398.339	-75.66	-20	Pass
NVNT	2-DH5	2480	2398.178	-75.86	-20	Pass
NVNT	2-DH5	2480	2484	-70	-10	Pass
NVNT	2-DH5	2480	2484.173	-70.32	-10	Pass
NVNT	2-DH5	2480	2485.173	-72.81	-20	Pass
NVNT	2-DH5	2480	2485.346	-76.02	-20	Pass
NVNT	3-DH5	2402	2399.5	-61.96	-10	Pass
NVNT	3-DH5	2402	2399.326	-77.33	-10	Pass
NVNT	3-DH5	2402	2398.326	-75.76	-20	Pass
NVNT	3-DH5	2402	2398.152	-77.33	-20	Pass
NVNT	3-DH5	2402	2484	-71.14	-10	Pass
NVNT	3-DH5	2402	2484.187	-75.69	-10	Pass
NVNT	3-DH5	2402	2485.187	-73.6	-20	Pass
NVNT	3-DH5	2402	2485.374	-77.6	-20	Pass
NVNT	3-DH5	2480	2399.5	-61.69	-10	Pass
NVNT	3-DH5	2480	2399.326	-64.47	-10	Pass
NVNT	3-DH5	2480	2398.326	-77.4	-20	Pass



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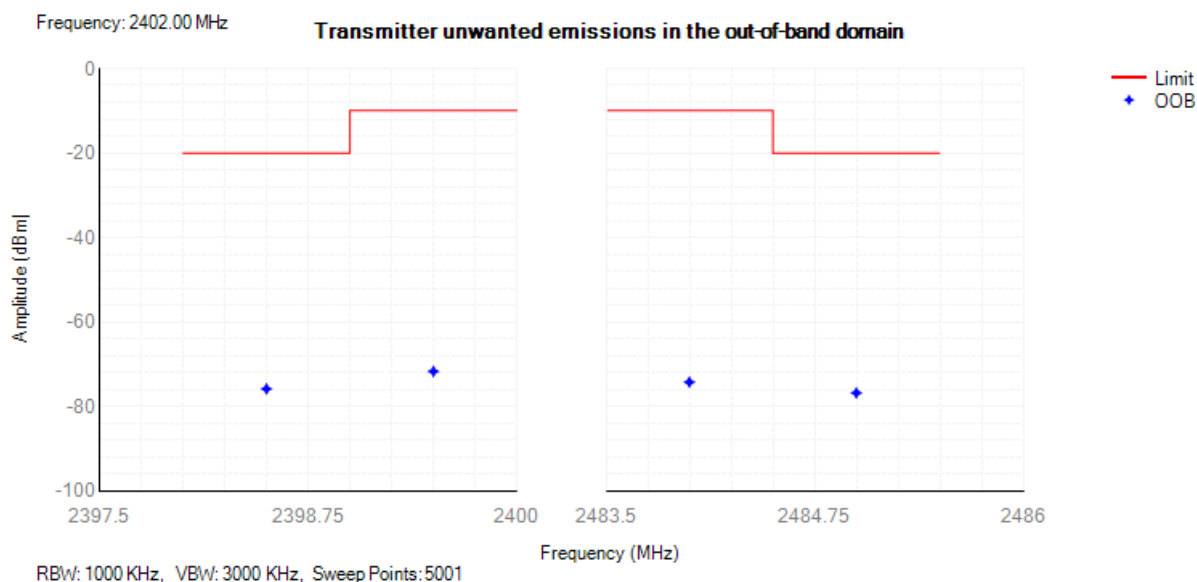
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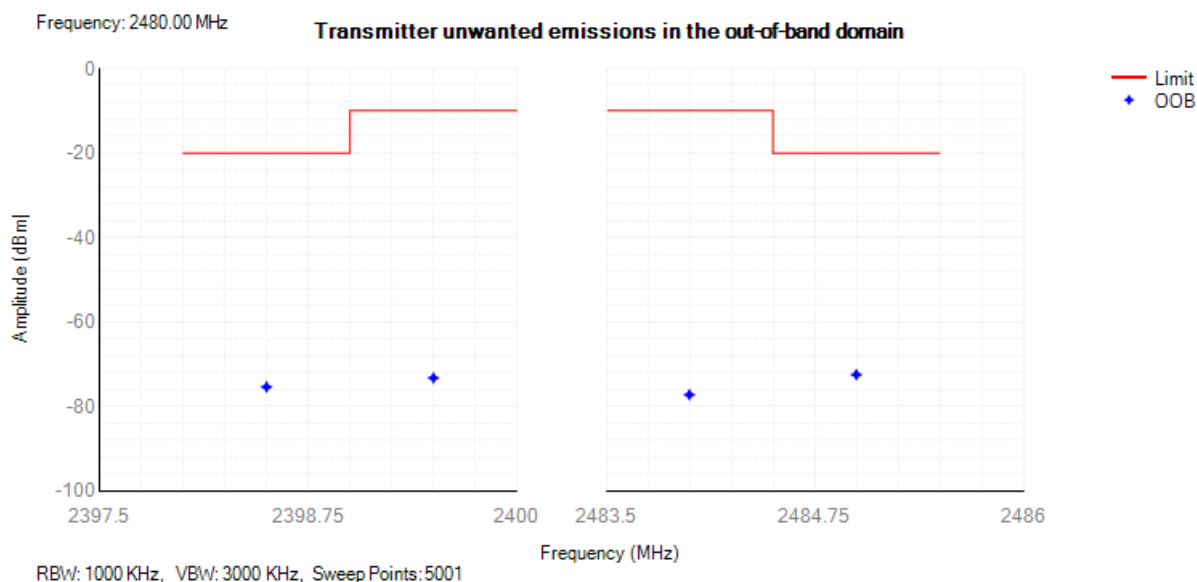


NVNT	3-DH5	2480	2398.152	-75.65	-20	Pass
NVNT	3-DH5	2480	2484	-67.94	-10	Pass
NVNT	3-DH5	2480	2484.187	-73.25	-10	Pass
NVNT	3-DH5	2480	2485.187	-76.47	-20	Pass
NVNT	3-DH5	2480	2485.374	-73.6	-20	Pass

## Tx. Emissions OOB NVNT 1-DH5 2402MHz

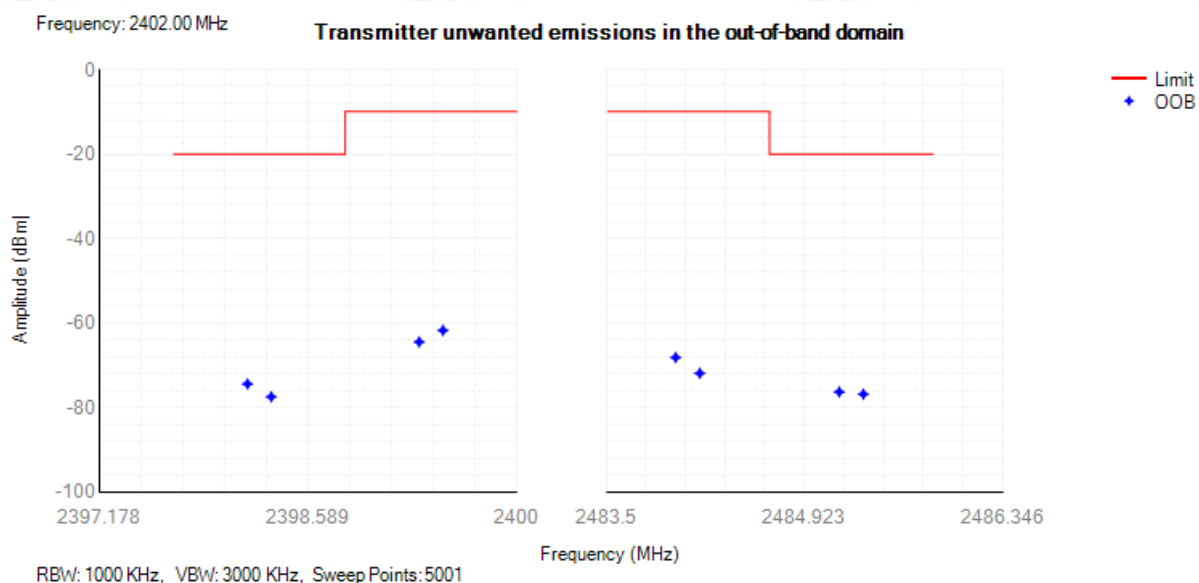


## Tx. Emissions OOB NVNT 1-DH5 2480MHz

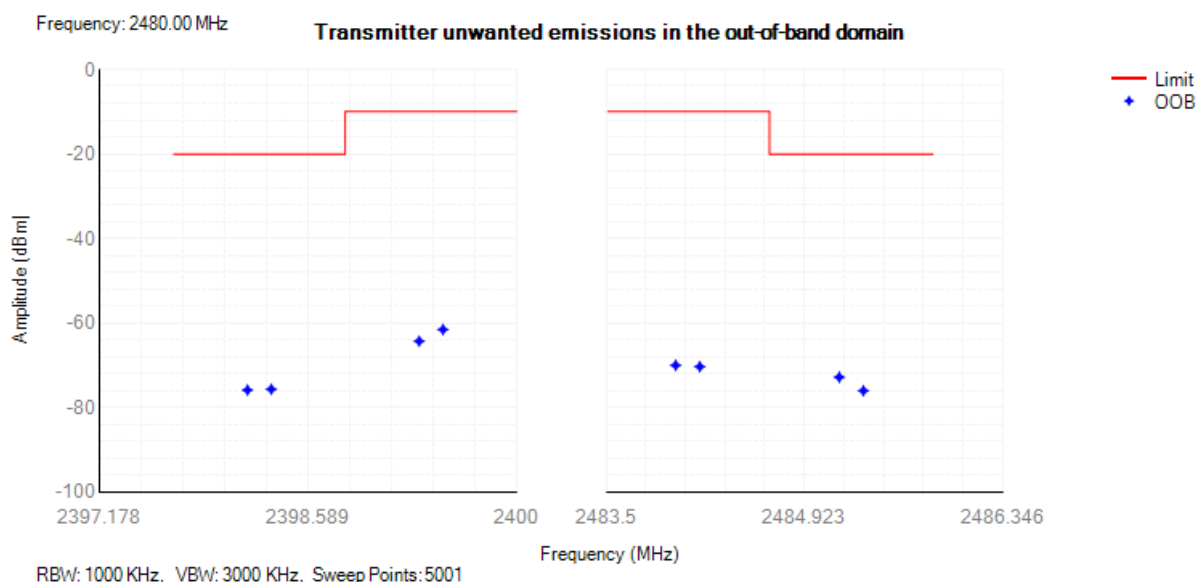




## Tx. Emissions OOB NVNT 2-DH5 2402MHz



## Tx. Emissions OOB NVNT 2-DH5 2480MHz



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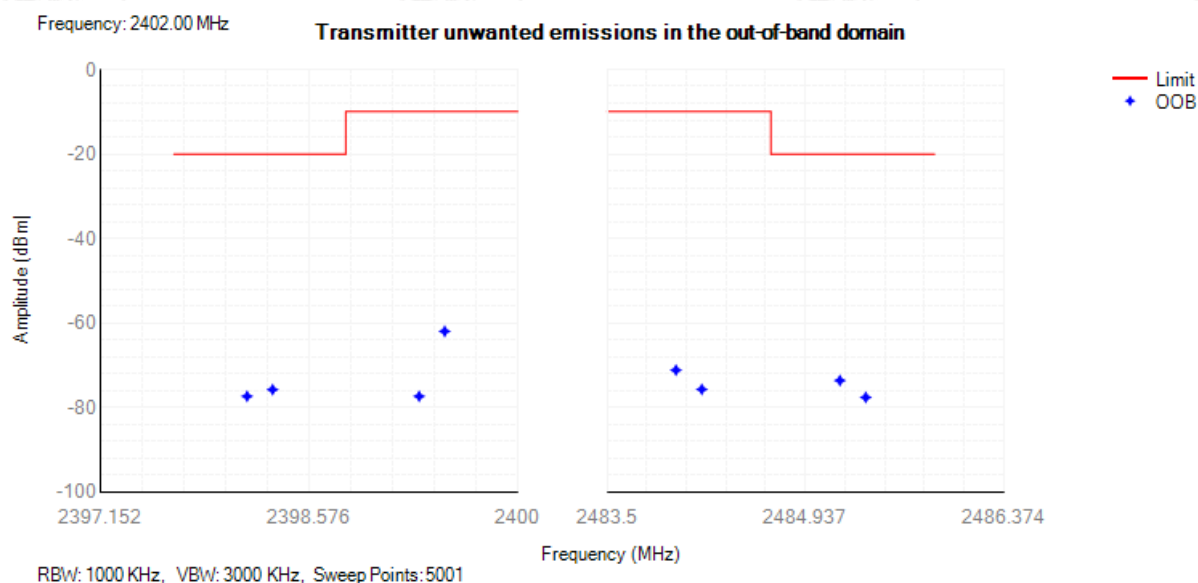
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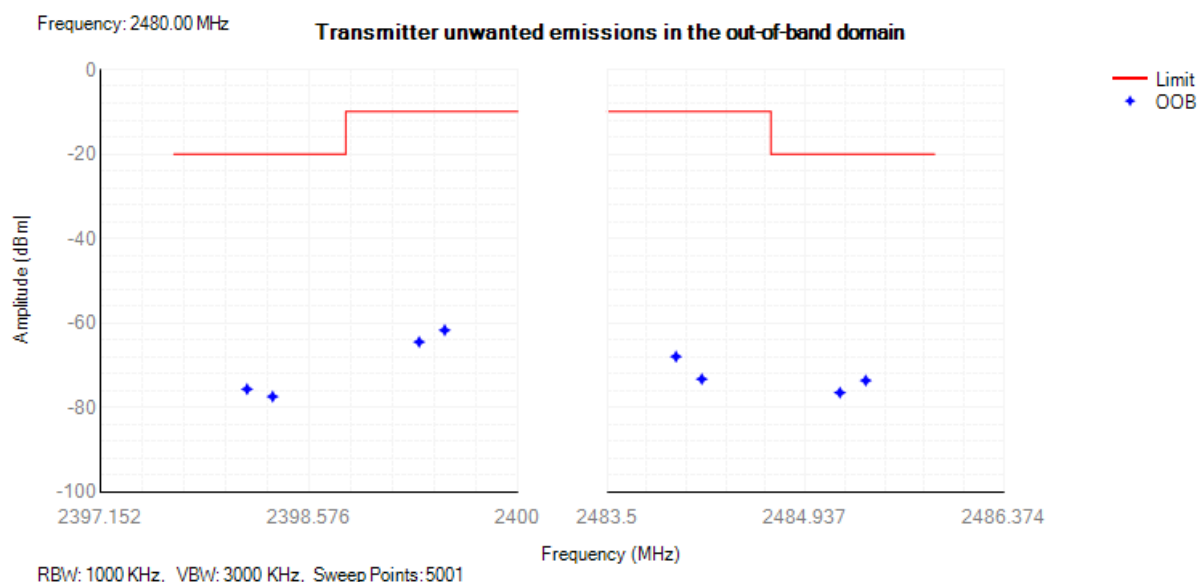




## Tx. Emissions OOB NVNT 3-DH5 2402MHz



## Tx. Emissions OOB NVNT 3-DH5 2480MHz



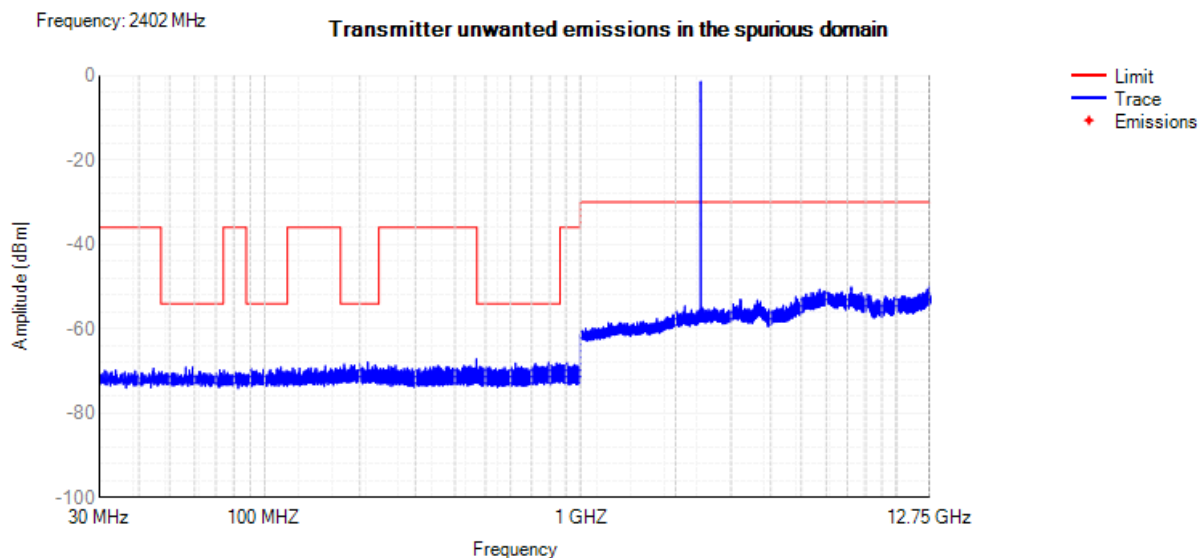




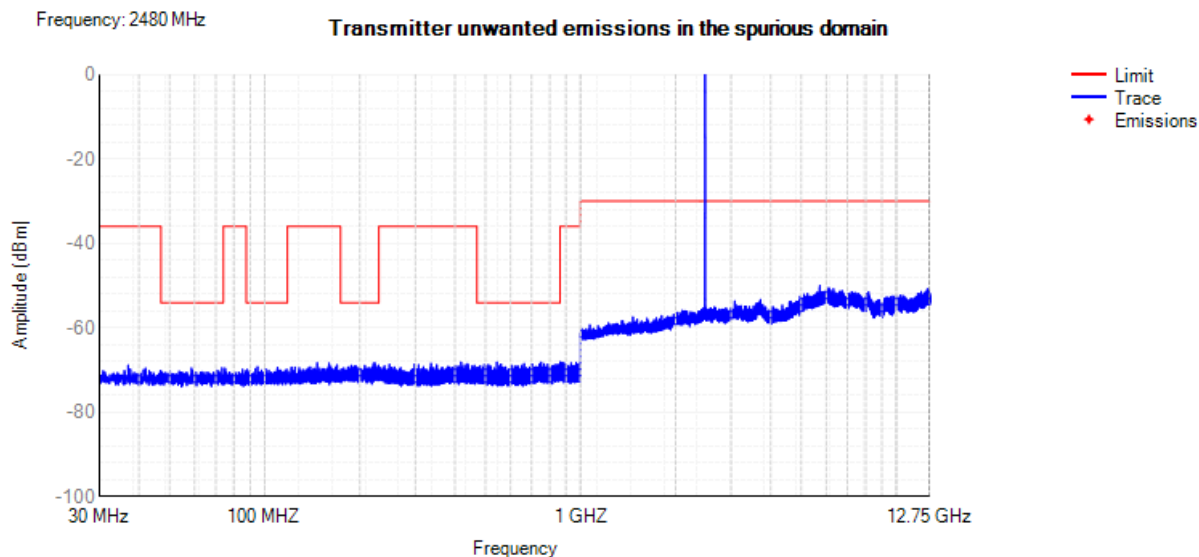
## E.8 Transmitter unwanted emissions in the spurious domain

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



Tx. Spurious NVNT 1-DH5 2480MHz

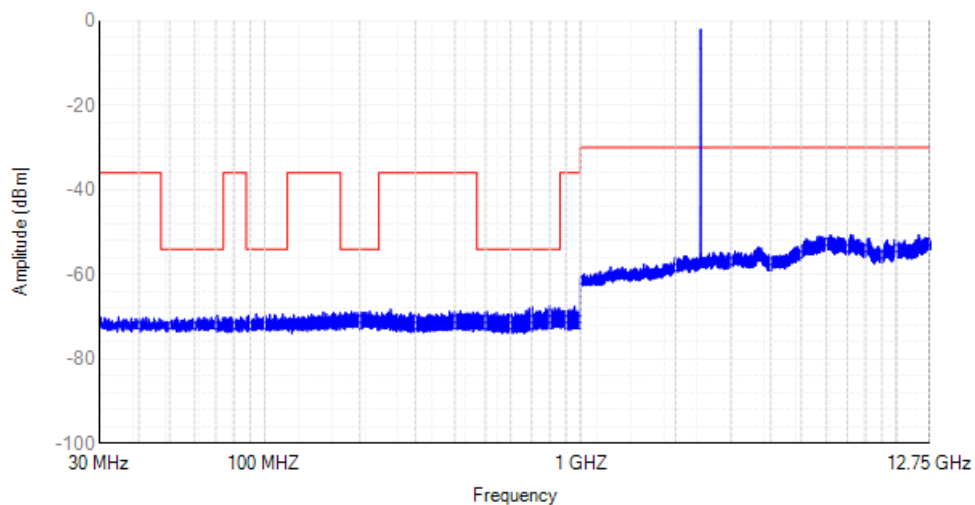




## Tx. Spurious NVNT 2-DH5 2402MHz

Frequency: 2402 MHz

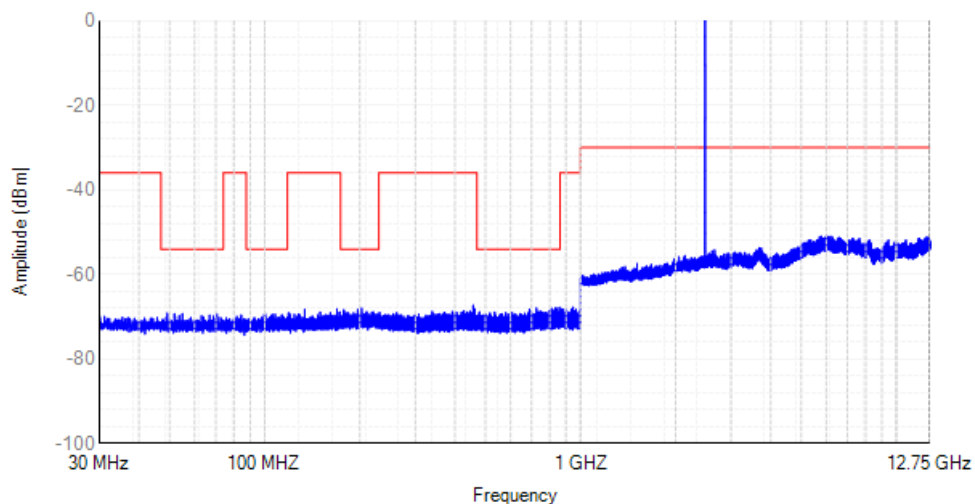
## Transmitter unwanted emissions in the spurious domain



## Tx. Spurious NVNT 2-DH5 2480MHz

Frequency: 2480 MHz

## Transmitter unwanted emissions in the spurious domain

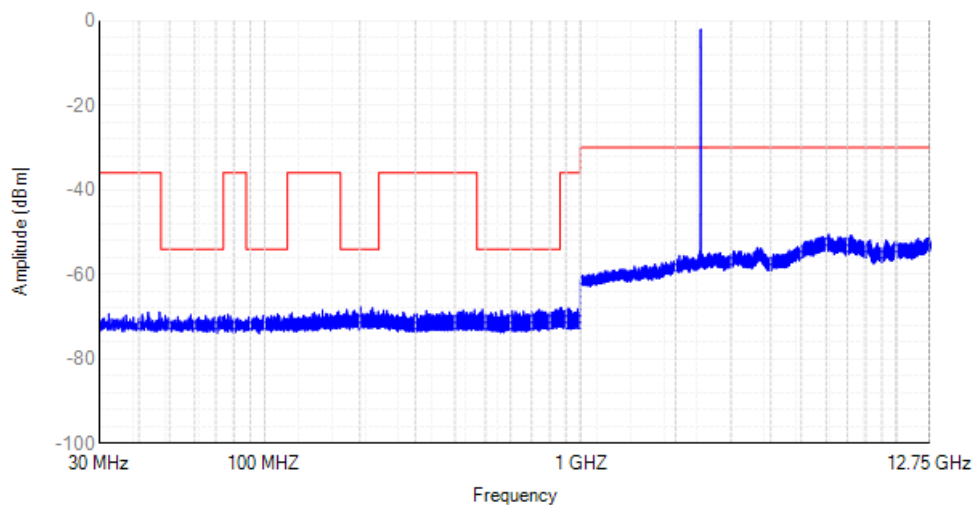




## Tx. Spurious NVNT 3-DH5 2402MHz

Frequency: 2402 MHz

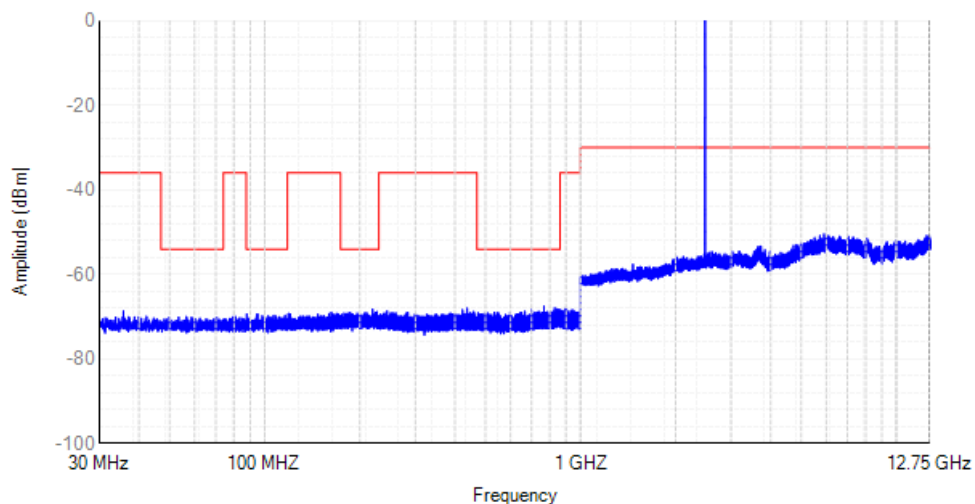
## Transmitter unwanted emissions in the spurious domain



## Tx. Spurious NVNT 3-DH5 2480MHz

Frequency: 2480 MHz

## Transmitter unwanted emissions in the spurious domain



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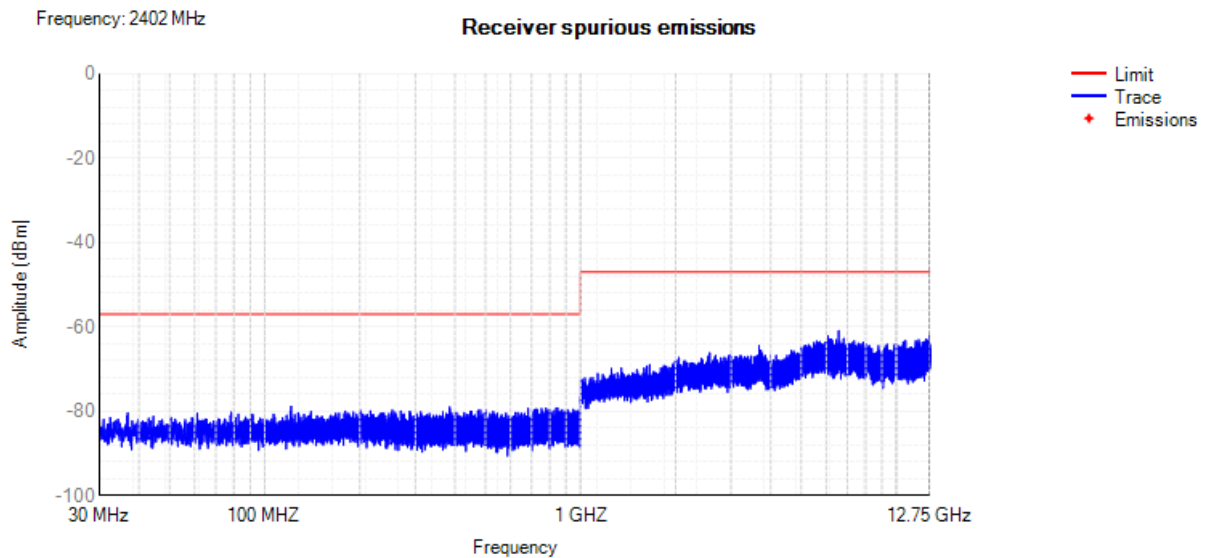
Scan code to check authenticity



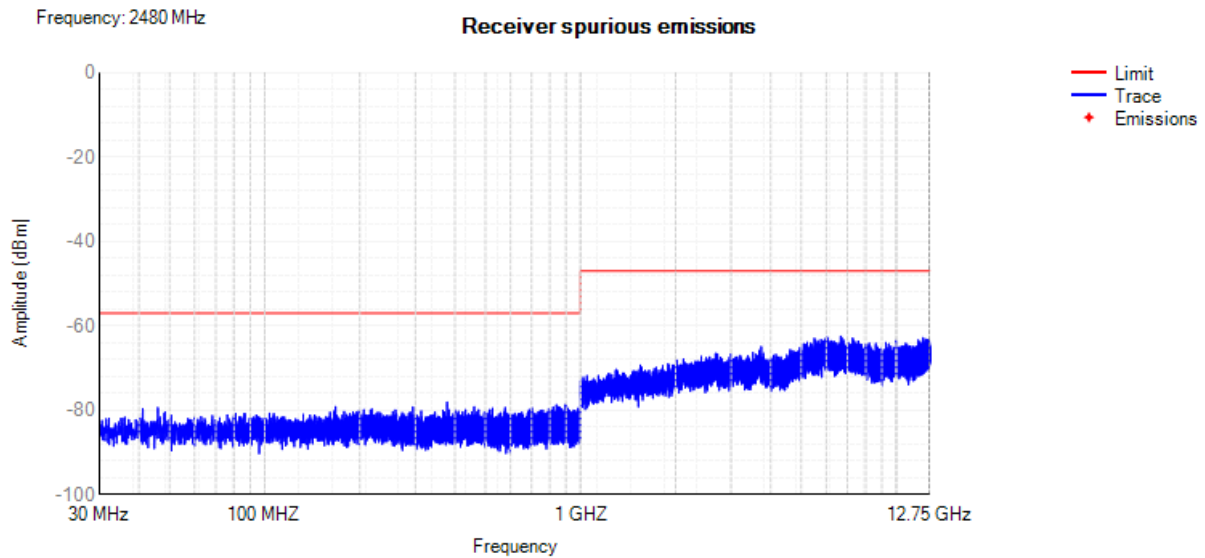
## E.9 Receiver spurious emissions

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

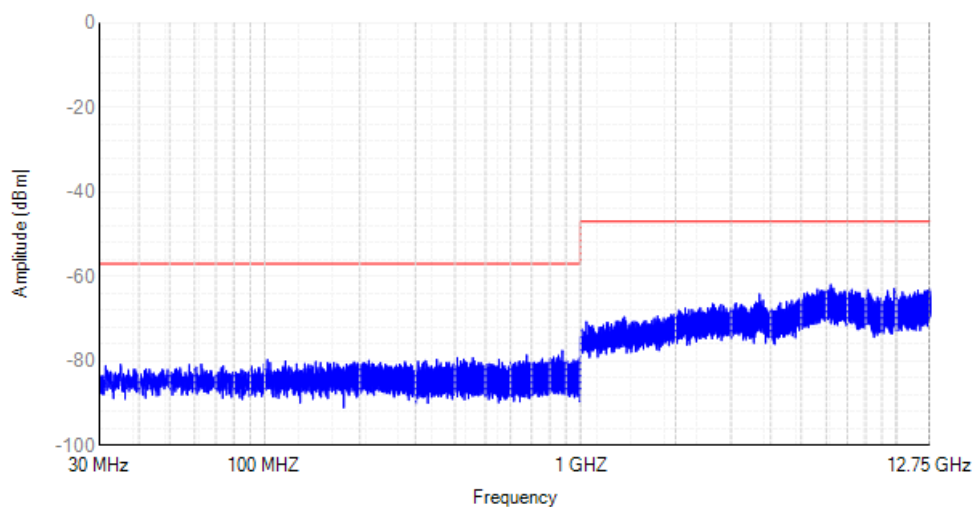




## Rx. Spurious NVNT 2-DH5 2402MHz

Frequency: 2402 MHz

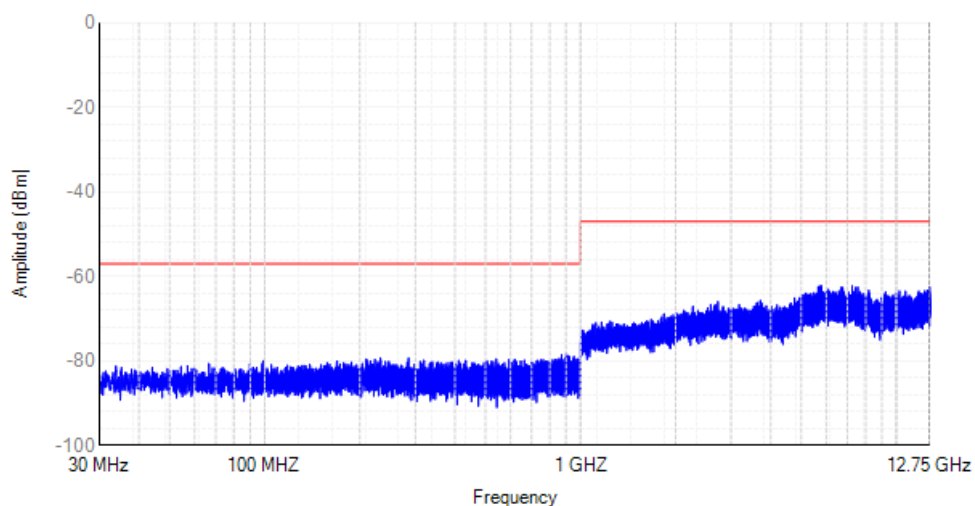
## Receiver spurious emissions



## Rx. Spurious NVNT 2-DH5 2480MHz

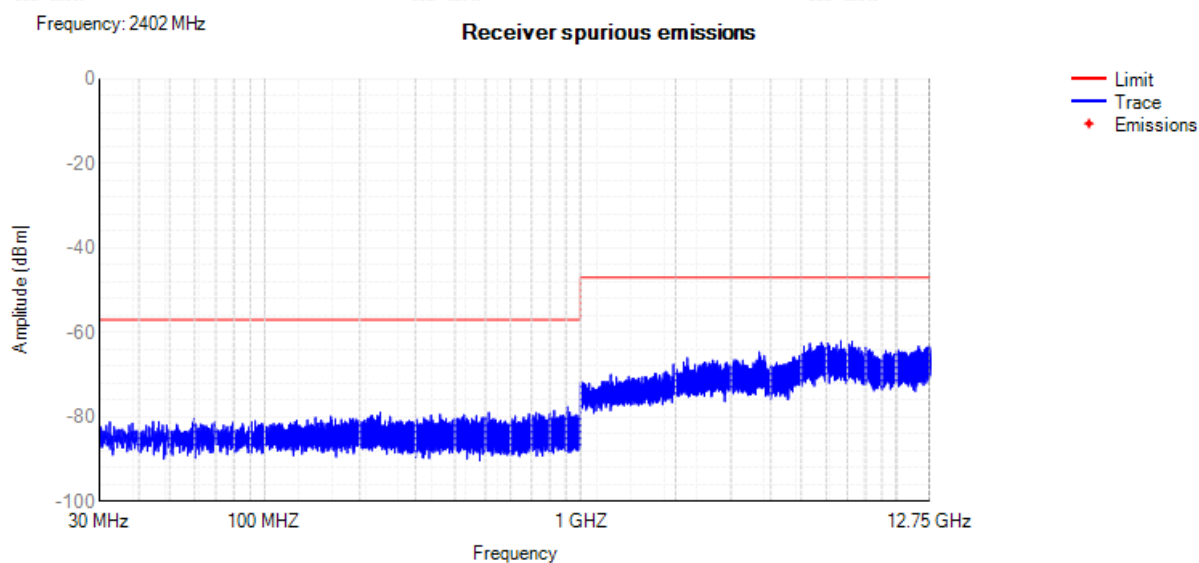
Frequency: 2480 MHz

## Receiver spurious emissions

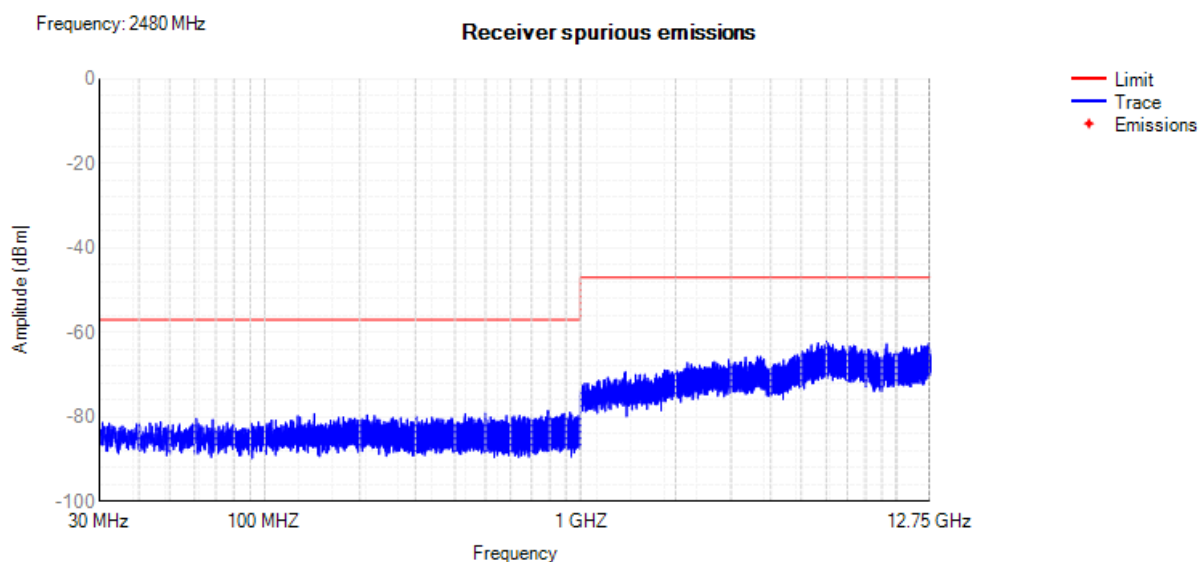




## Rx. Spurious NVNT 3-DH5 2402MHz



## 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	-28	≥-34	CW	3.39	10	Pass
			2504	-23	≥-34	CW	1.86	10	Pass
			2300	-26	≥-34	CW	0.50	10	Pass
			2584	-24	≥-34	CW	2.27	10	Pass
	2480	-70	2380	-30	≥-34	CW	1.55	10	Pass
			2504	-24	≥-34	CW	1.54	10	Pass
			2300	-28	≥-34	CW	3.49	10	Pass
			2584	-20	≥-34	CW	2.65	10	Pass
2DH5	2402	-68	2380	-20	≥-34	CW	4.87	10	Pass
			2504	-22	≥-34	CW	2.37	10	Pass
			2300	-29	≥-34	CW	0.95	10	Pass
			2584	-28	≥-34	CW	4.33	10	Pass
	2480	-68	2380	-23	≥-34	CW	3.21	10	Pass
			2504	-29	≥-34	CW	3.39	10	Pass
			2300	-25	≥-34	CW	0.58	10	Pass
			2584	-19	≥-34	CW	3.74	10	Pass
3DH5	2402	-68	2380	-22	≥-34	CW	2.32	10	Pass
			2504	-25	≥-34	CW	4.34	10	Pass
			2300	-26	≥-34	CW	2.98	10	Pass
			2584	-26	≥-34	CW	3.45	10	Pass
	2480	-68	2380	-29	≥-34	CW	2.75	10	Pass
			2504	-26	≥-34	CW	4.04	10	Pass
			2300	-23	≥-34	CW	5.31	10	Pass
			2584	-24	≥-34	CW	3.43	10	Pass



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