RF Test Data for Bluetooth(BDR+EDR) (Conducted Measurements)

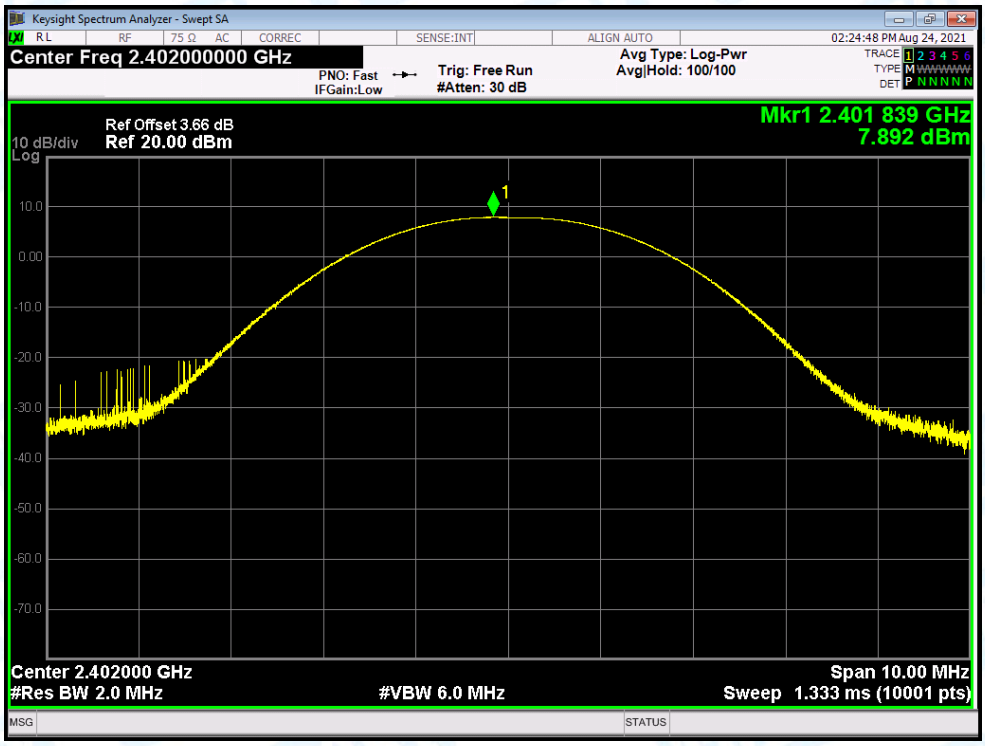
General Description of EUT	
Product Name:	Wireless Headphone
Test Model:	B29
Sample ID:	20210815-02-4#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 5V
Test Engineer:	HeJingchang
Note: For a more detailed features description, please refer to the report TB-FCC183364.	

1.Maximum Conducted Output Power

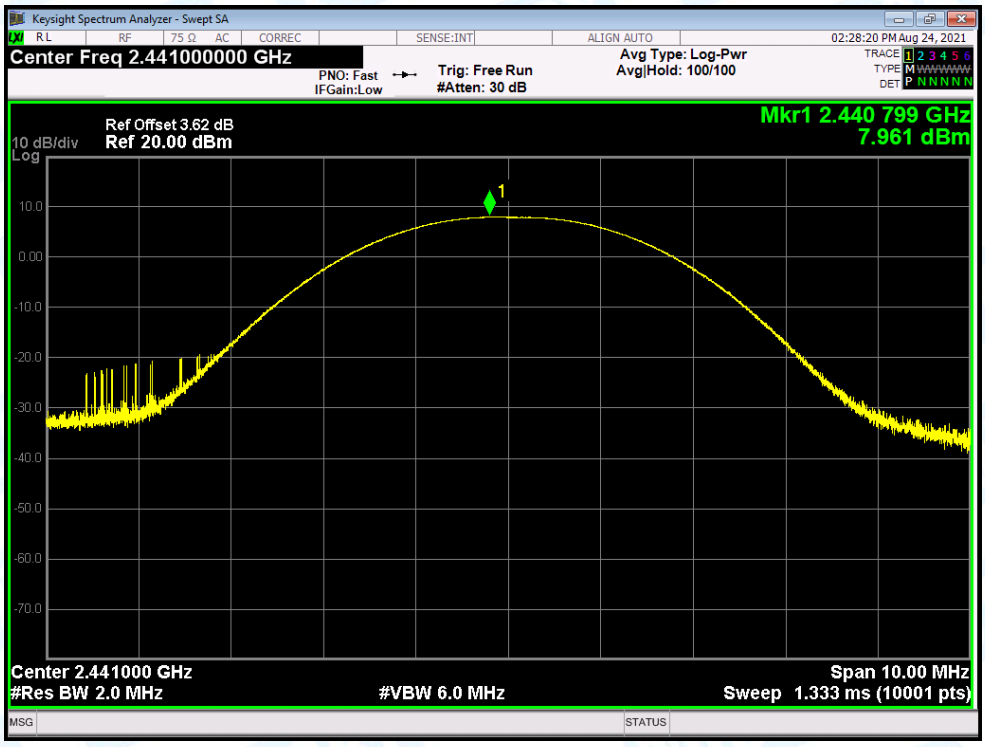
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	7.892	7.892	21	Pass
NVNT	1-DH1	2441	7.961	7.961	21	Pass
NVNT	1-DH1	2480	7.44	7.440	21	Pass
NVNT	2-DH1	2402	8.382	8.382	21	Pass
NVNT	2-DH1	2441	8.273	8.273	21	Pass
NVNT	2-DH1	2480	7.814	7.814	21	Pass
NVNT	3-DH1	2402	8.641	8.641	21	Pass
NVNT	3-DH1	2441	8.512	8.512	21	Pass
NVNT	3-DH1	2480	8.066	8.066	21	Pass

Test Graphs

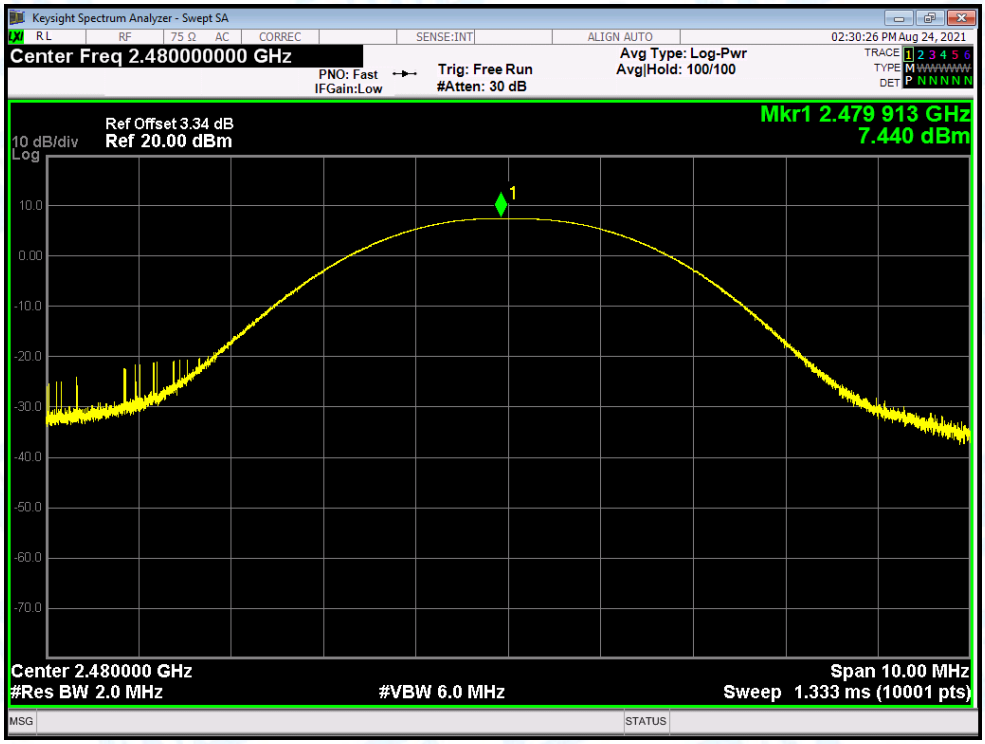
Power NVNT 1-DH1 2402MHz Ant1



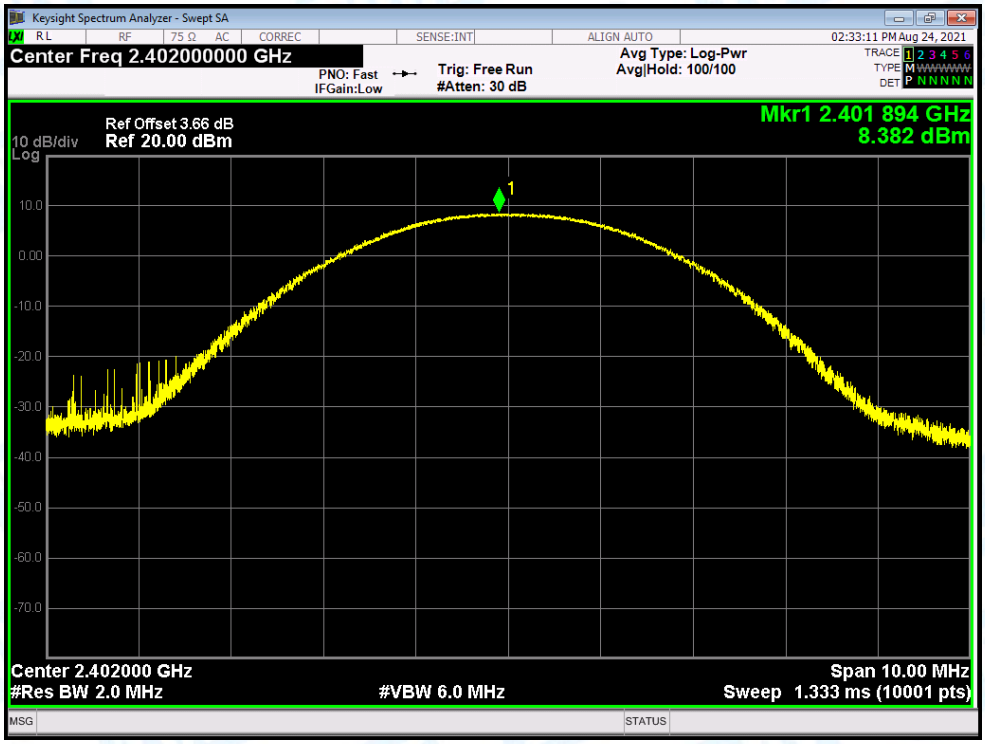
Power NVNT 1-DH1 2441MHz Ant1



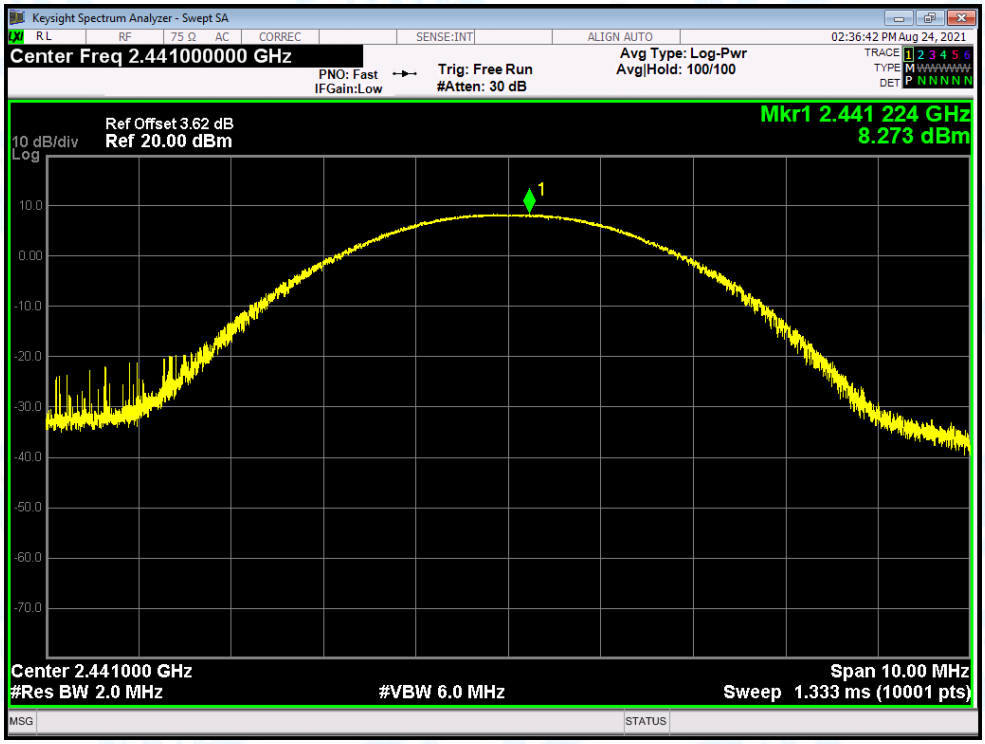
Power NVNT 1-DH1 2480MHz Ant1



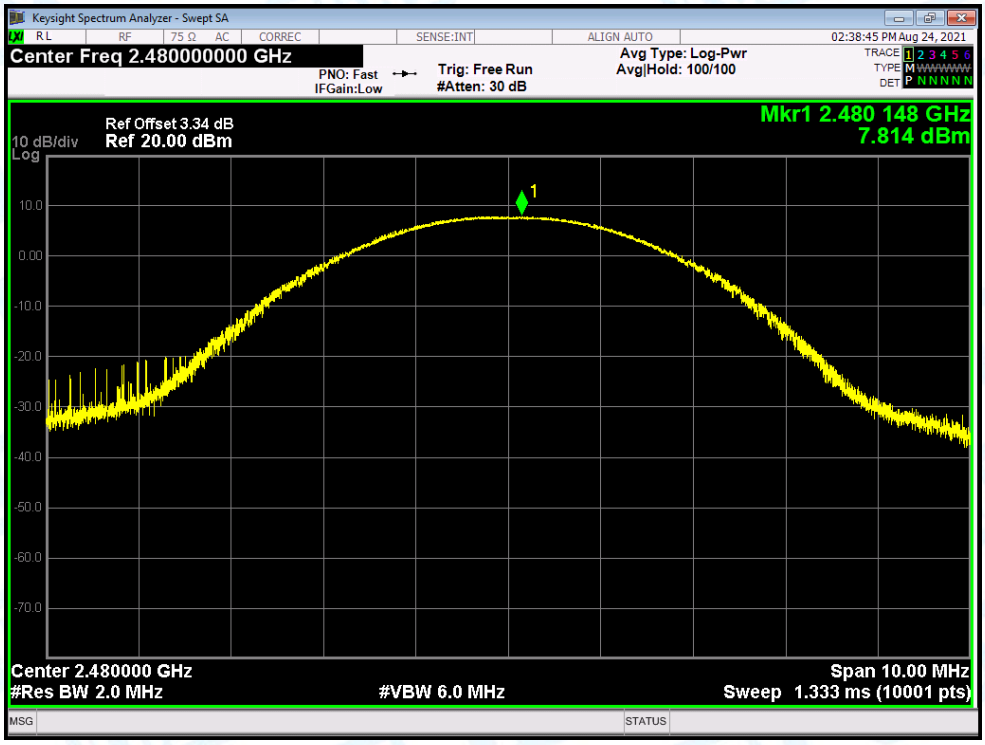
Power NVNT 2-DH1 2402MHz Ant1



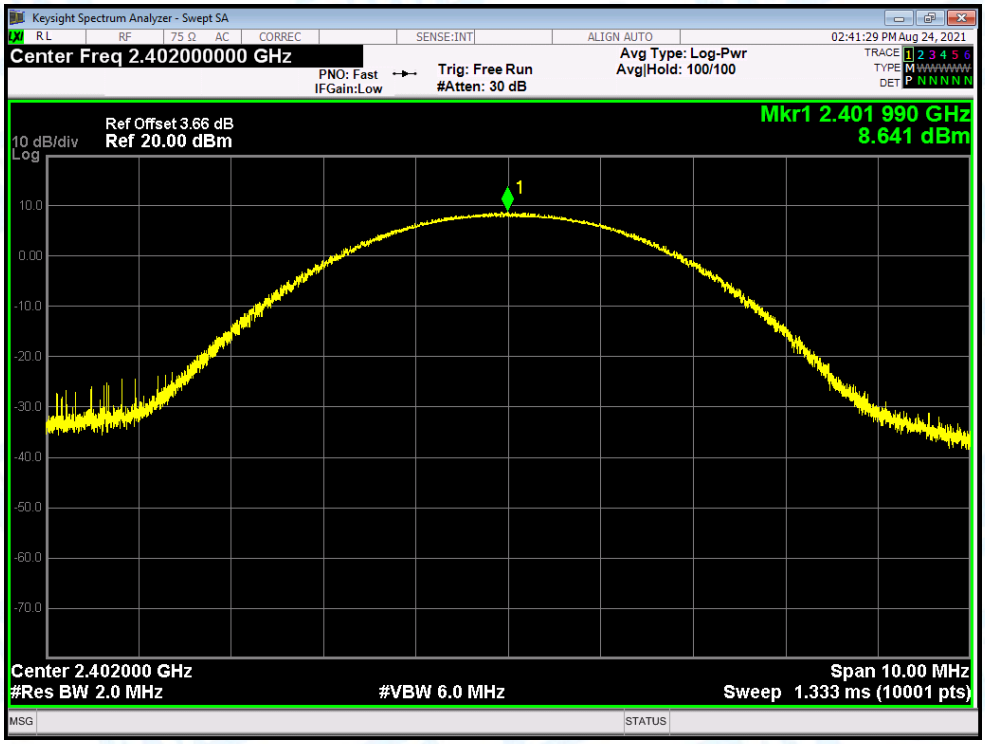
Power NVNT 2-DH1 2441MHz Ant1



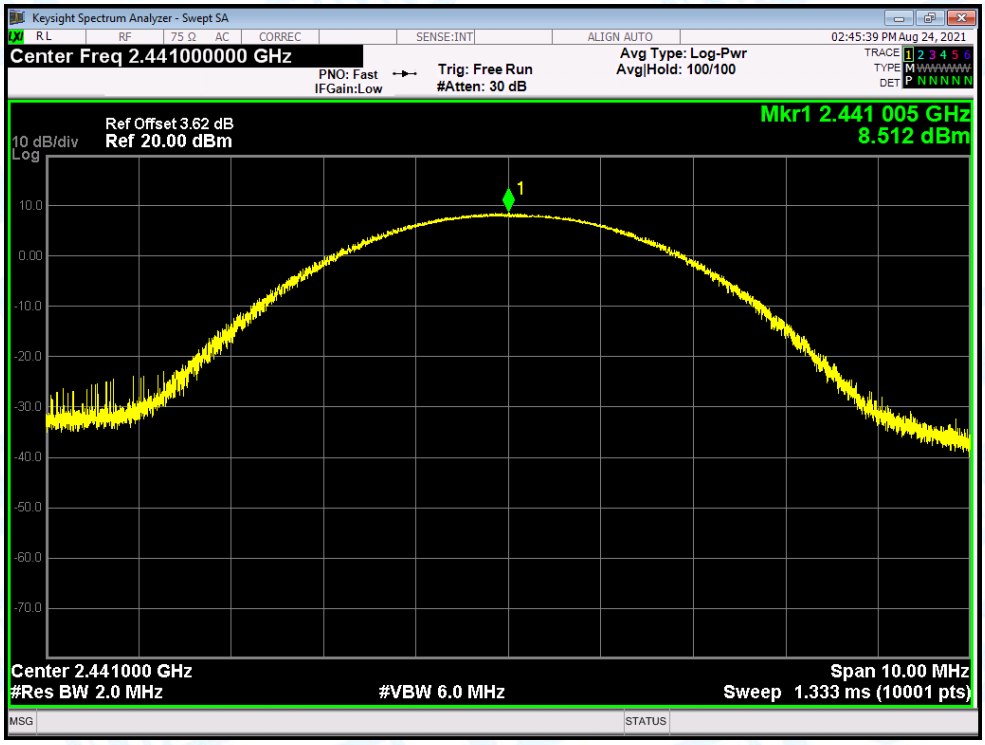
Power NVNT 2-DH1 2480MHz Ant1



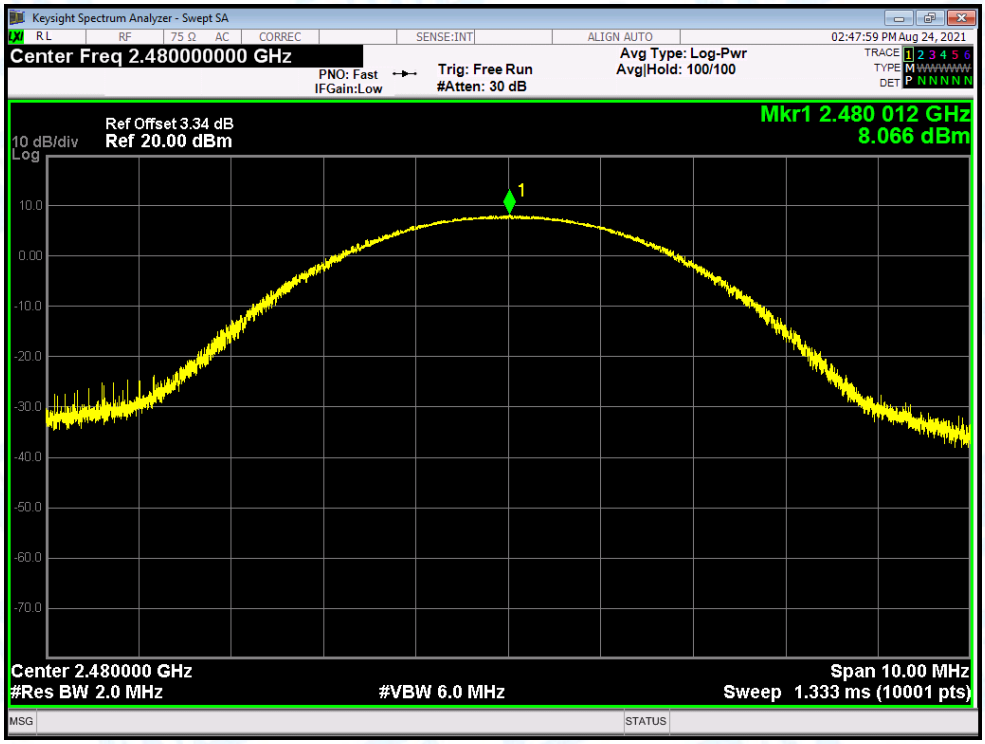
Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1



Power NVNT 3-DH1 2480MHz Ant1

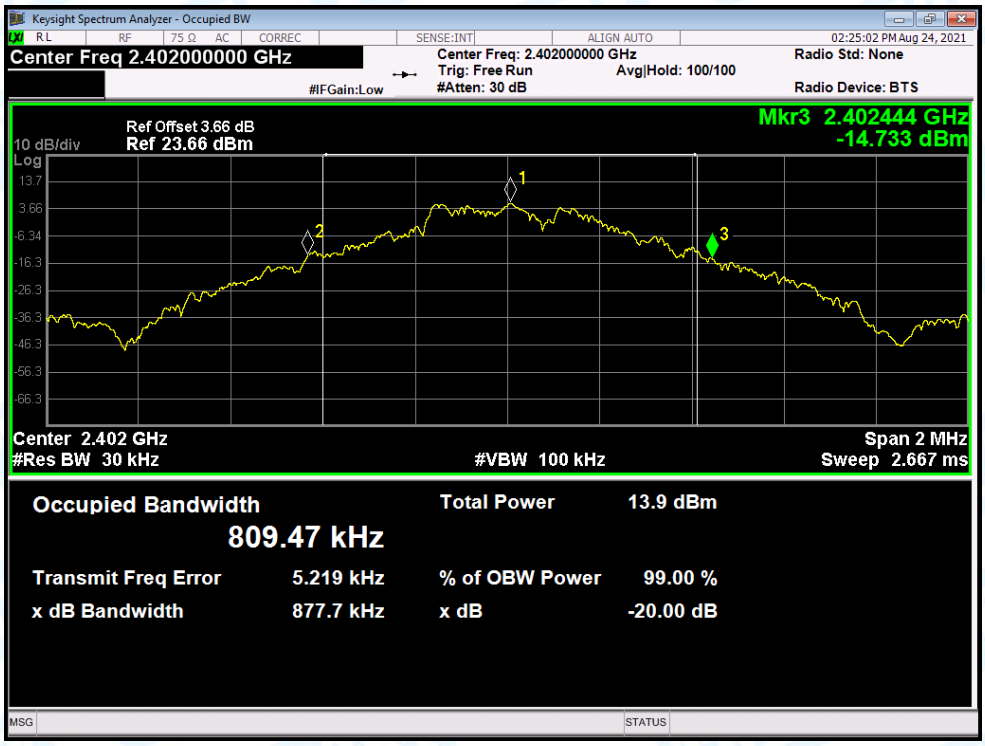


2.-20dB Bandwidth

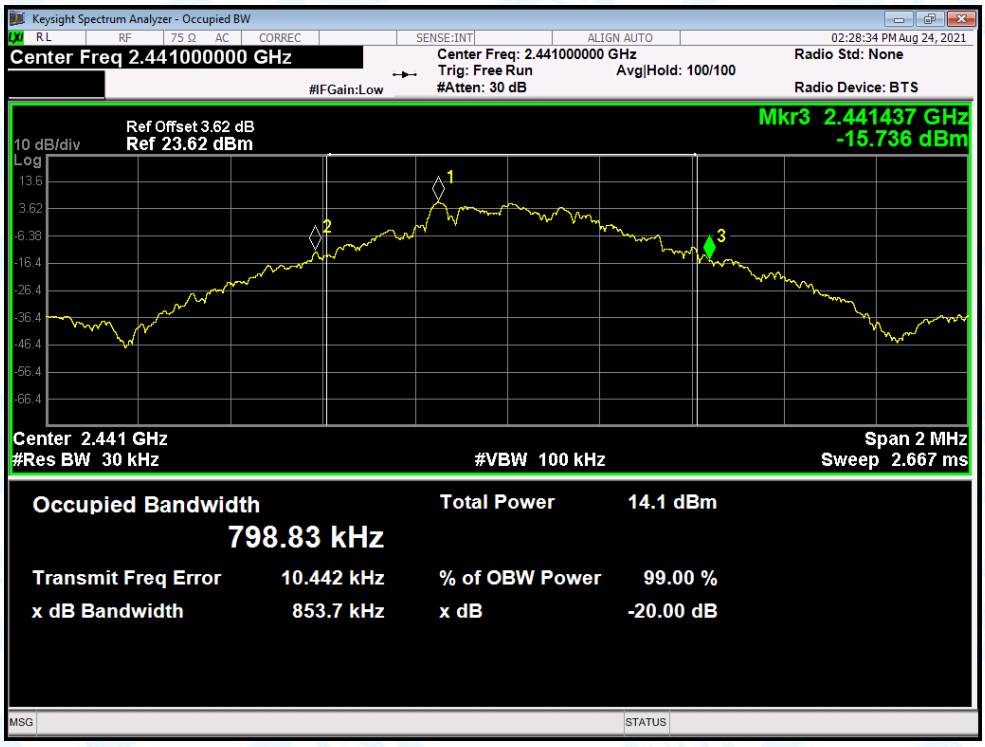
Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	99% OBW (MHz)	2/3 *20dB BW (MHz)
NVNT	1-DH1	2402	0.878	0.80947	0.585
NVNT	1-DH1	2441	0.854	0.79883	0.569
NVNT	1-DH1	2480	0.86	0.80170	0.573
NVNT	2-DH1	2402	1.228	1.1650	0.819
NVNT	2-DH1	2441	1.276	1.1782	0.851
NVNT	2-DH1	2480	1.225	1.1708	0.817
NVNT	3-DH1	2402	1.239	1.1569	0.826
NVNT	3-DH1	2441	1.222	1.1786	0.815
NVNT	3-DH1	2480	1.216	1.1694	0.811

Test Graphs

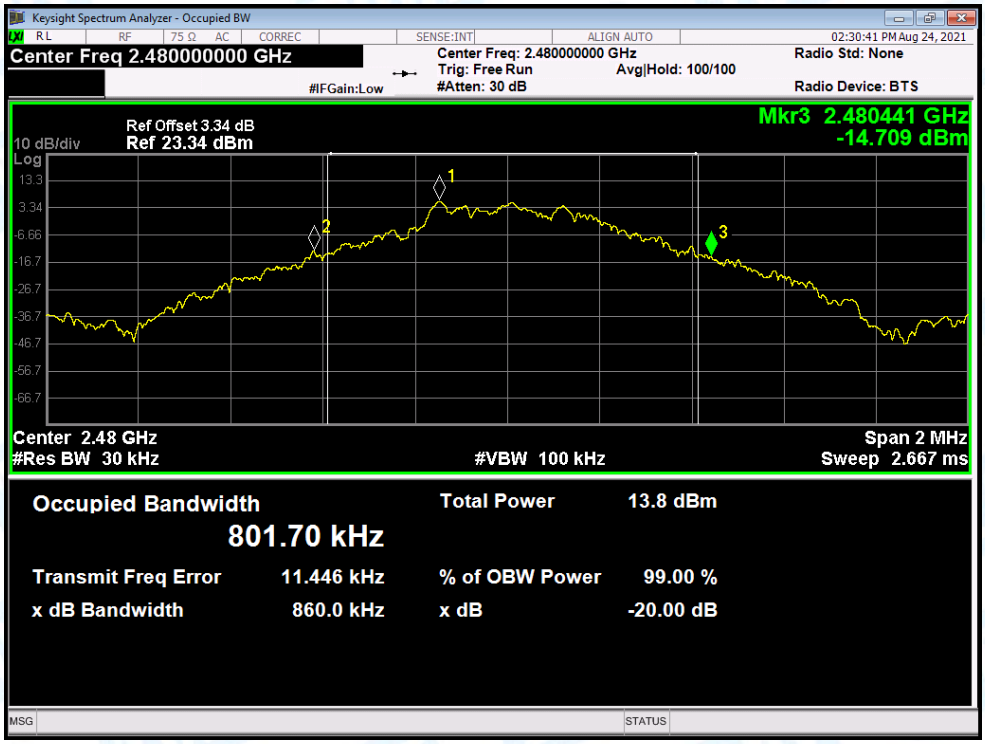
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



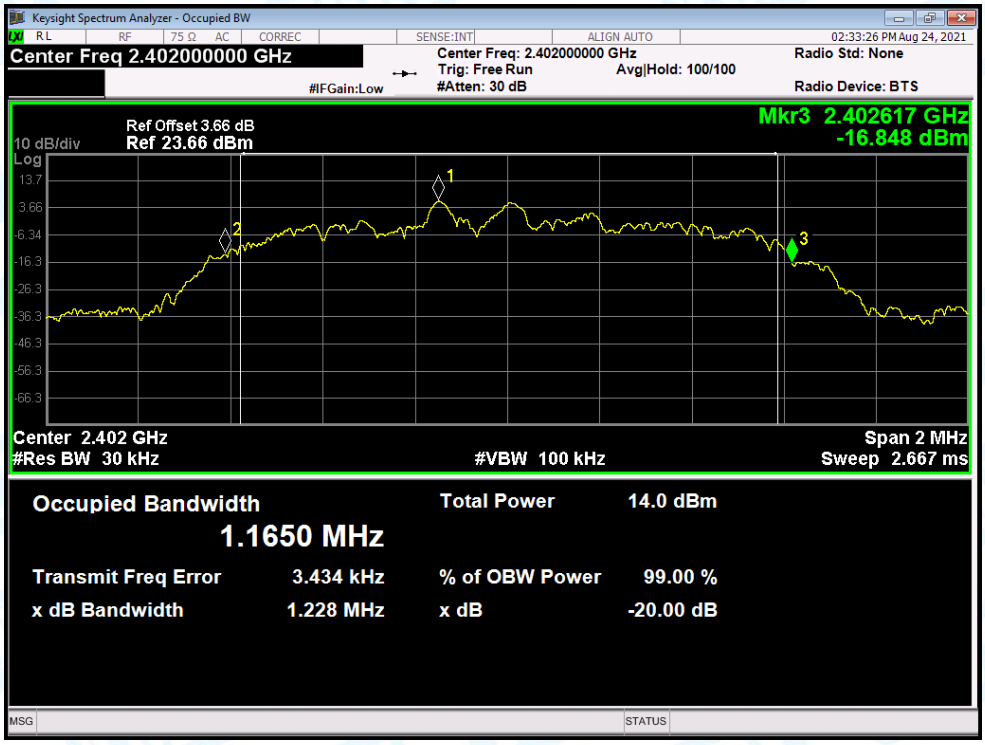
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



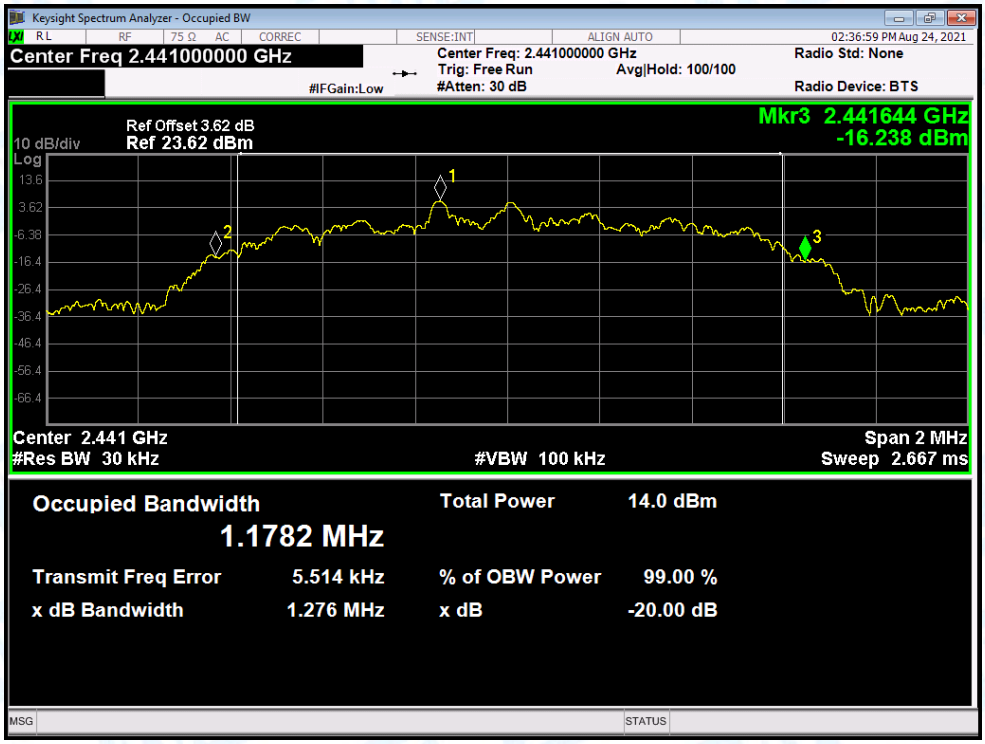
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



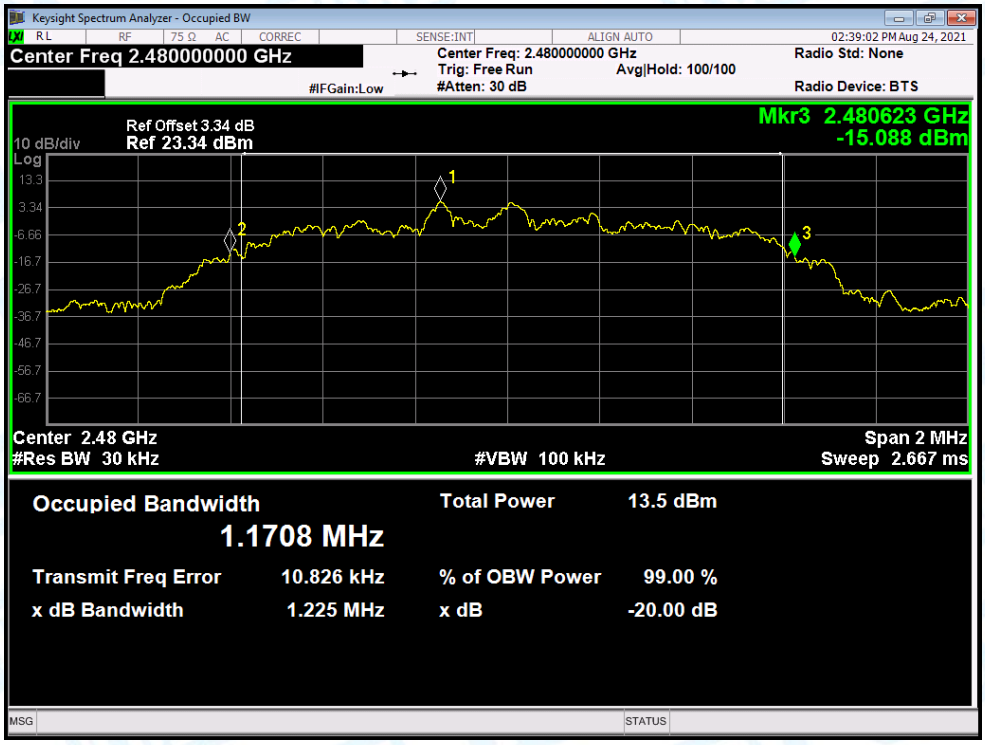
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



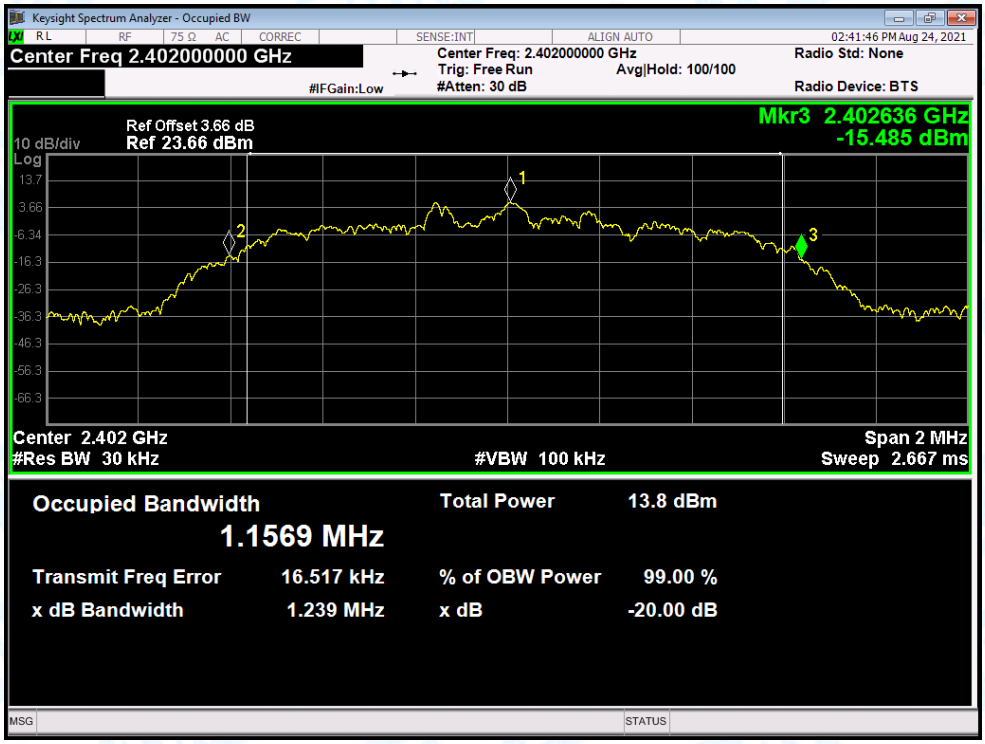
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



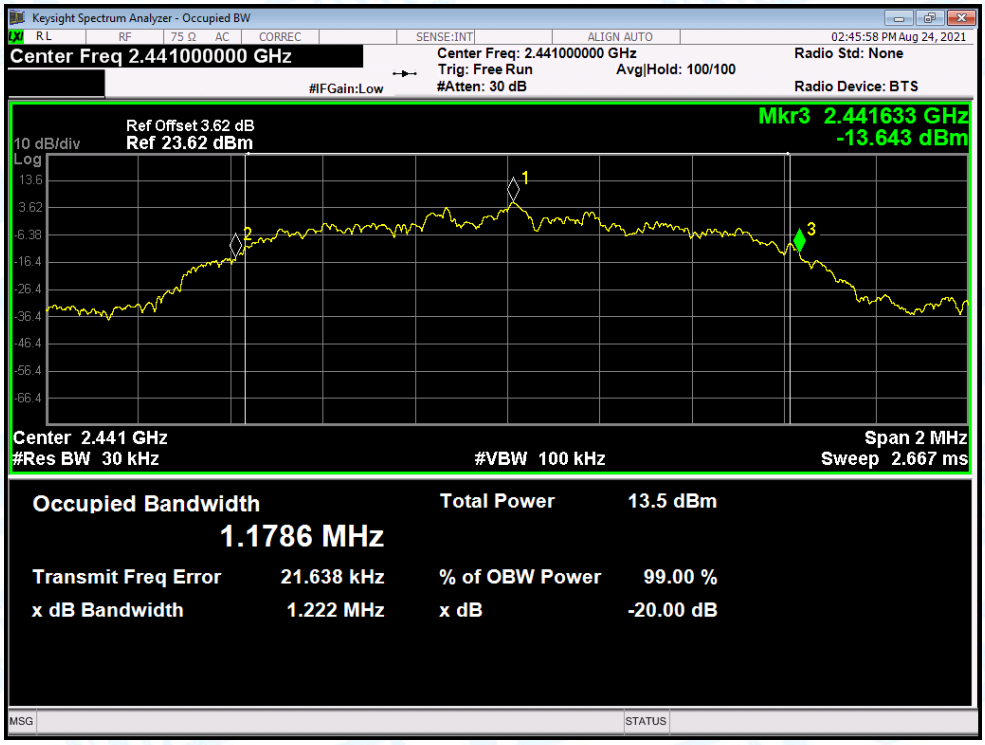
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1



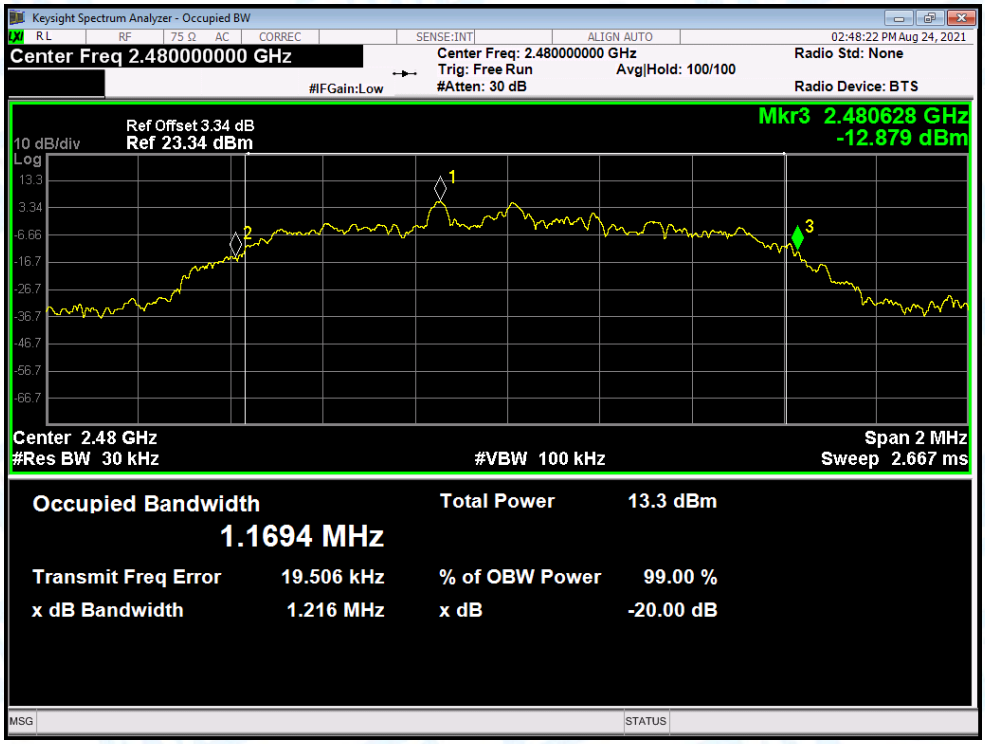
-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2480MHz Ant1

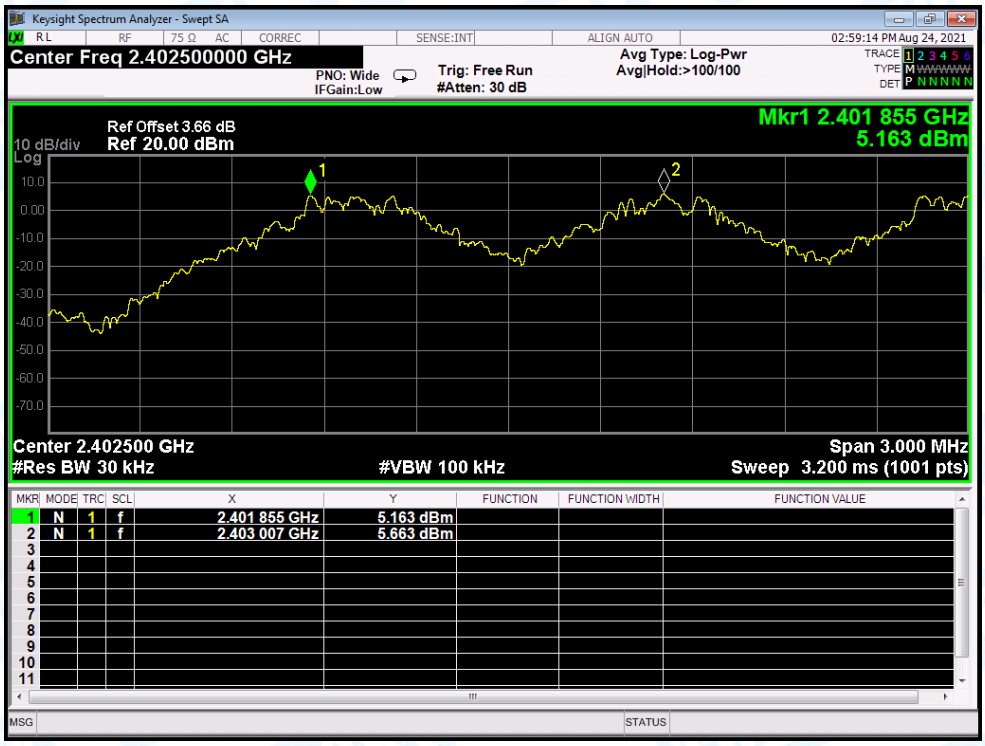


3.Carrier Frequencies Separation

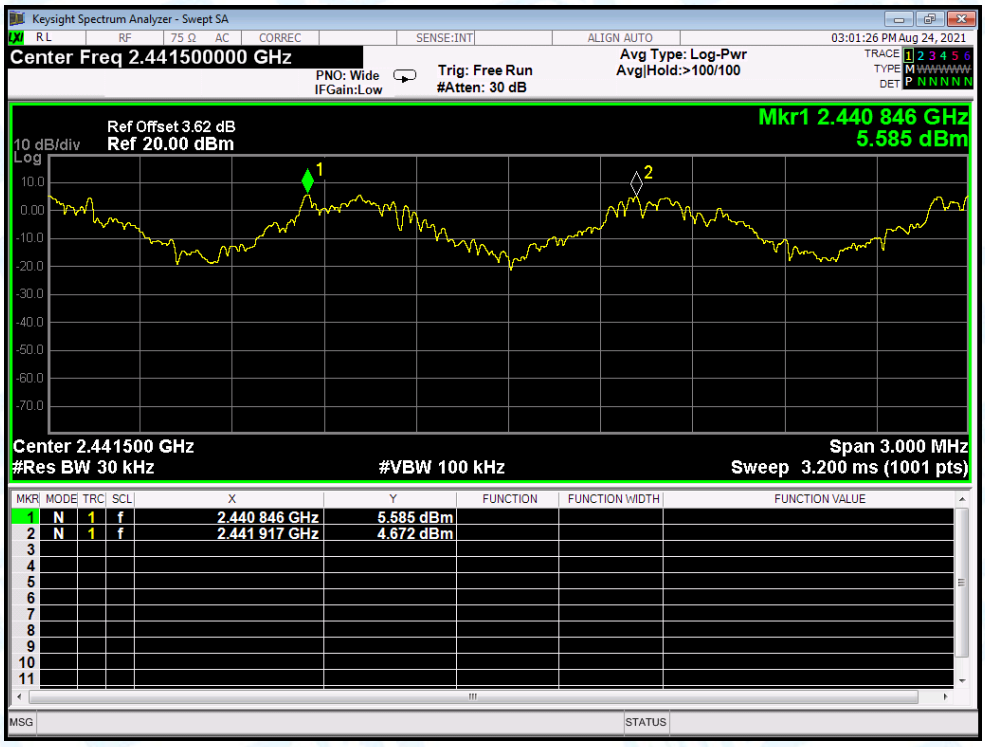
Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	2401.855	2403.007	1.152	0.585	Pass
NVNT	1-DH1	2440.846	2441.917	1.071	0.569	Pass
NVNT	1-DH1	2478.852	2479.851	0.999	0.573	Pass
NVNT	2-DH1	2401.849	2403.007	1.158	0.819	Pass
NVNT	2-DH1	2440.849	2441.857	1.008	0.851	Pass
NVNT	2-DH1	2478.849	2479.848	0.999	0.817	Pass
NVNT	3-DH1	2401.852	2403.01	1.158	0.826	Pass
NVNT	3-DH1	2440.855	2441.854	0.999	0.815	Pass
NVNT	3-DH1	2478.852	2480.016	1.164	0.811	Pass

Test Graphs

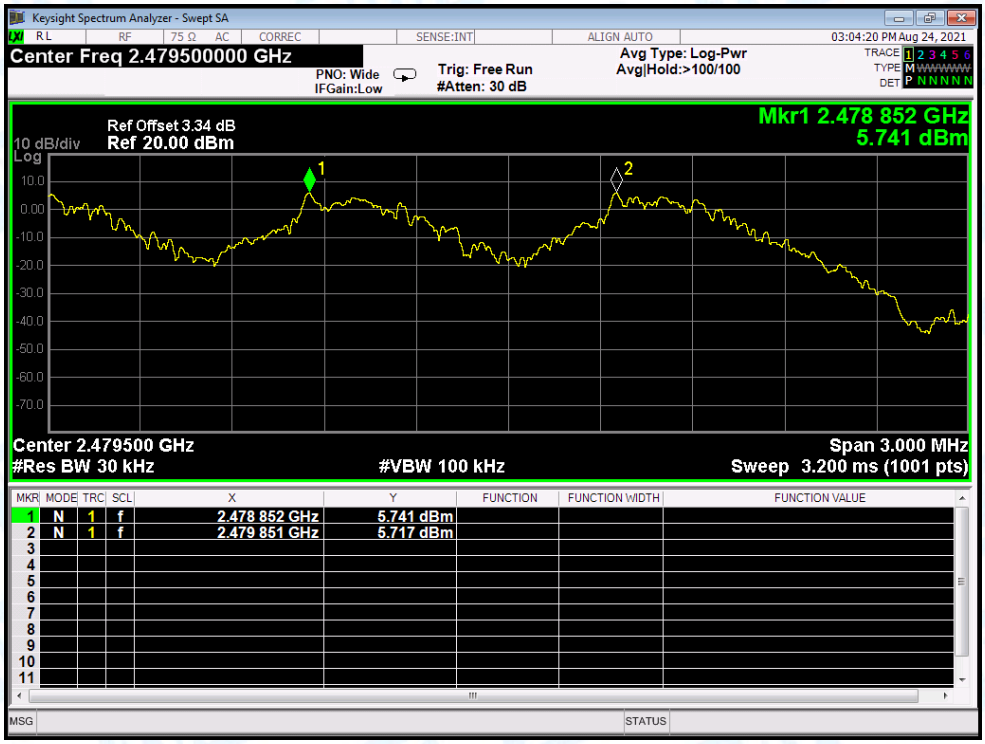
CFS NVNT 1-DH1 2402MHz Ant1



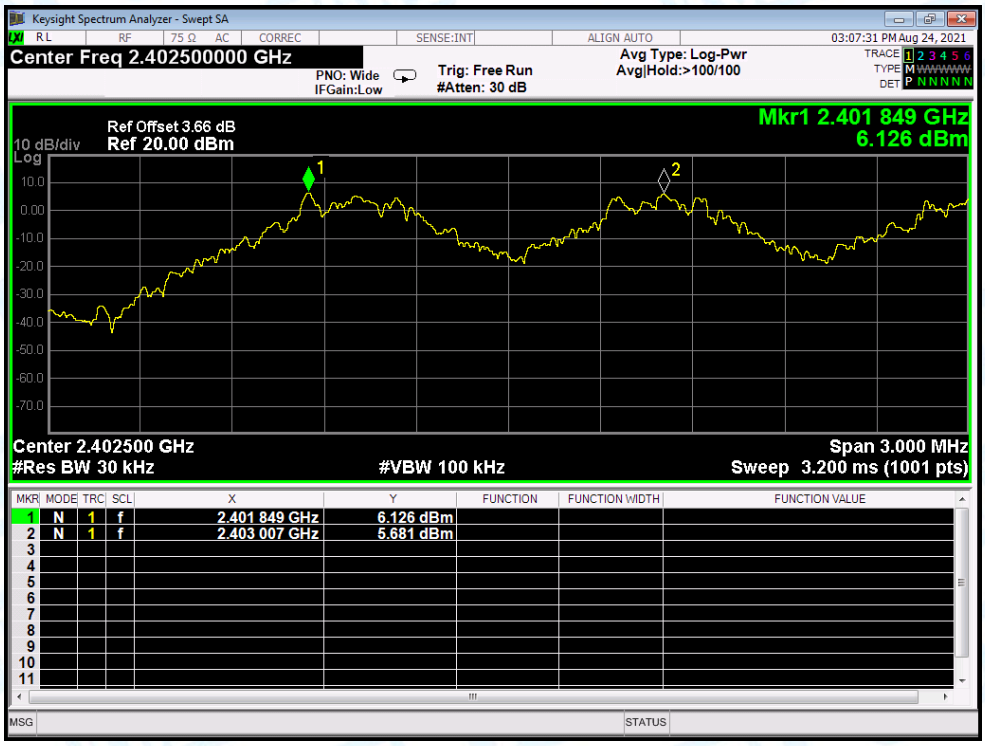
CFS NVNT 1-DH1 2441MHz Ant1



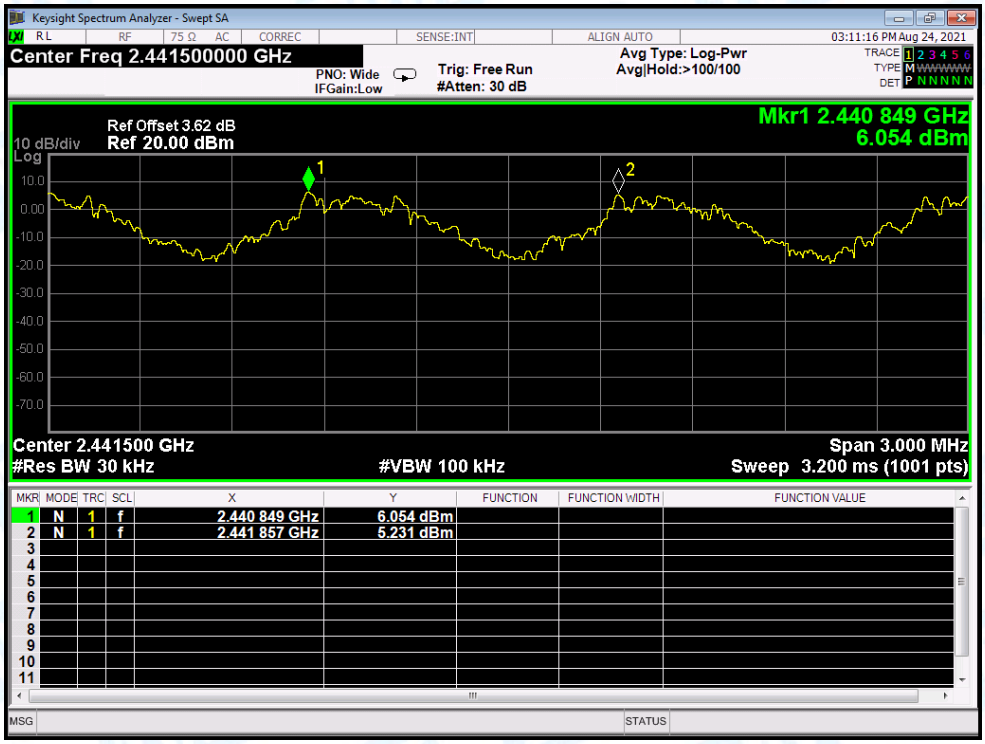
CFS NVNT 1-DH1 2480MHz Ant1



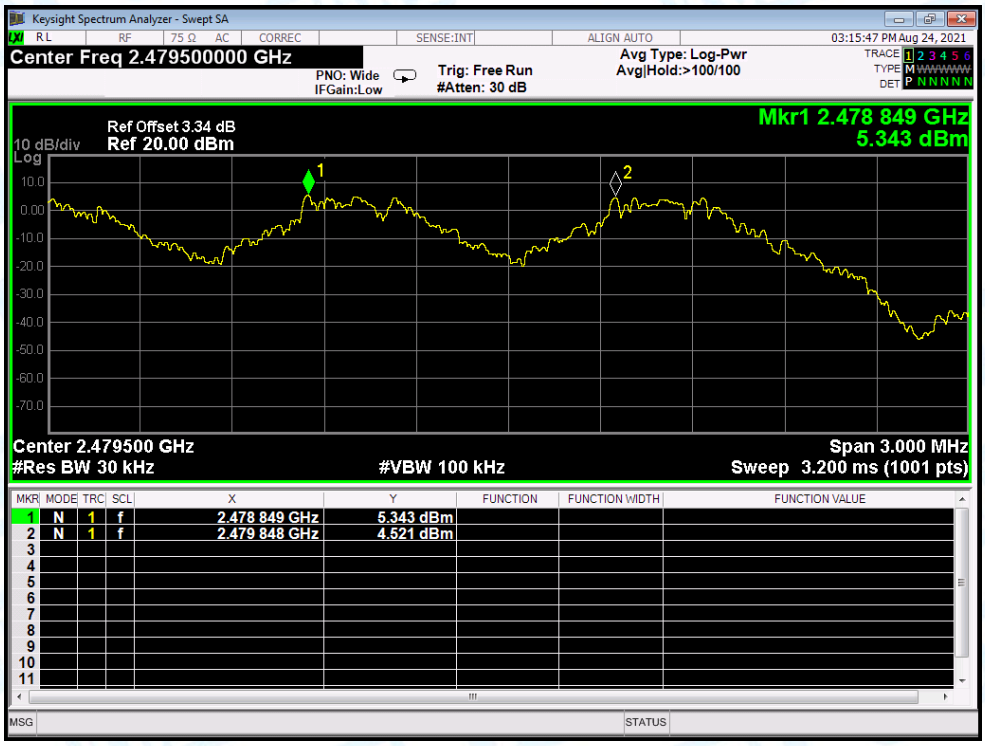
CFS NVNT 2-DH1 2402MHz Ant1



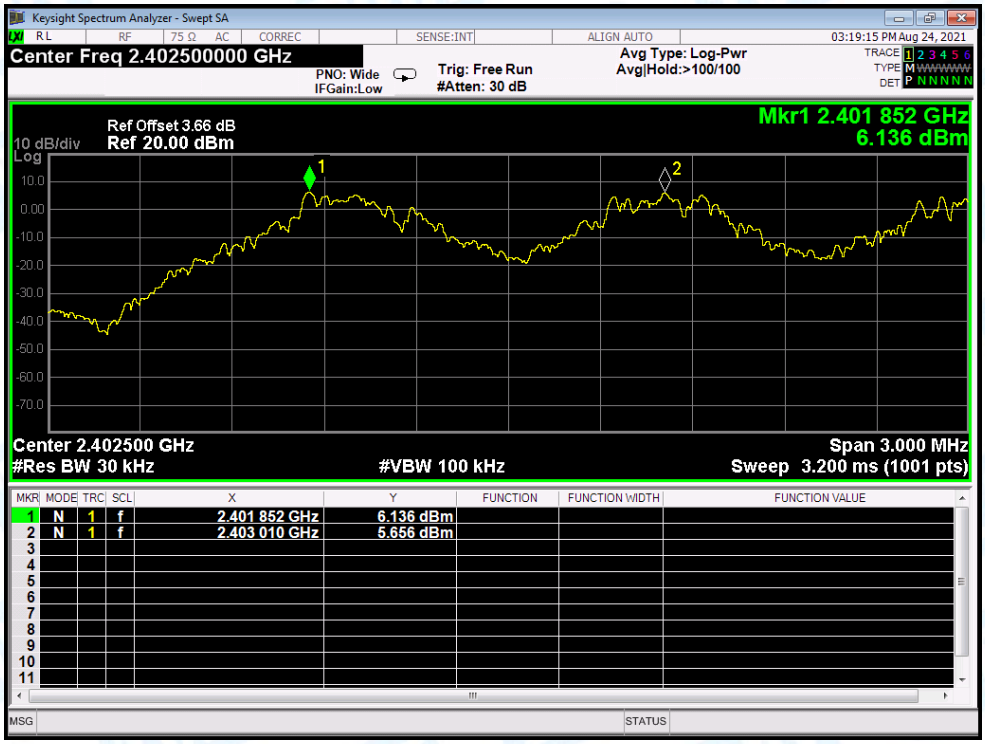
CFS NVNT 2-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2480MHz Ant1

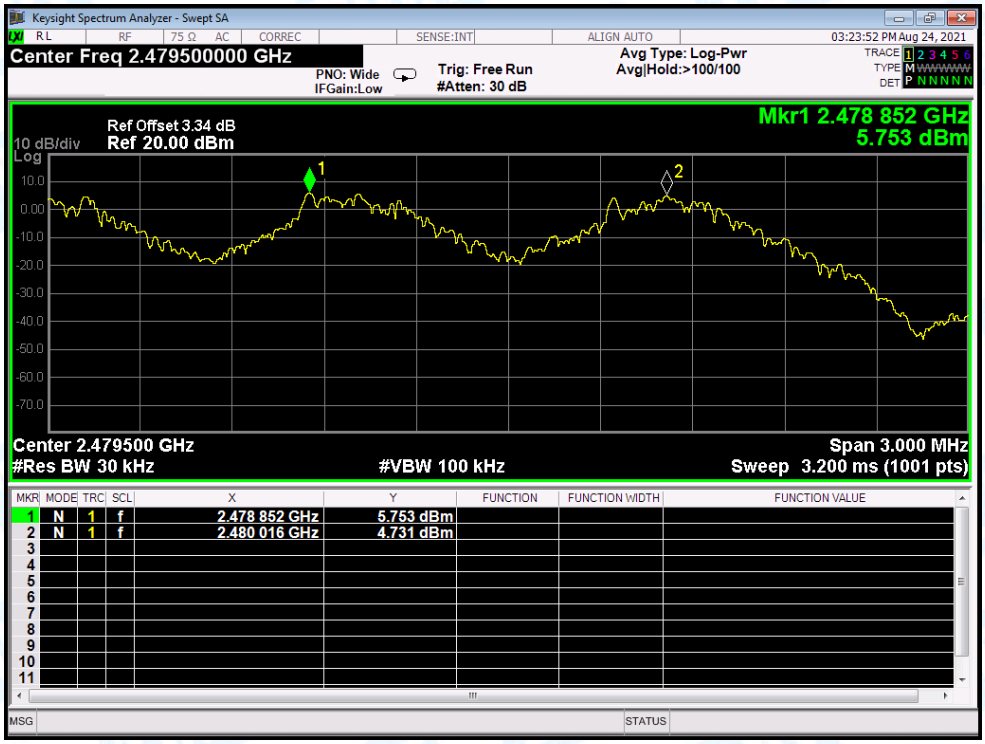


CFS NVNT 3-DH1 2402MHz Ant1



CFS NVNT 3-DH1 2441MHz Ant1

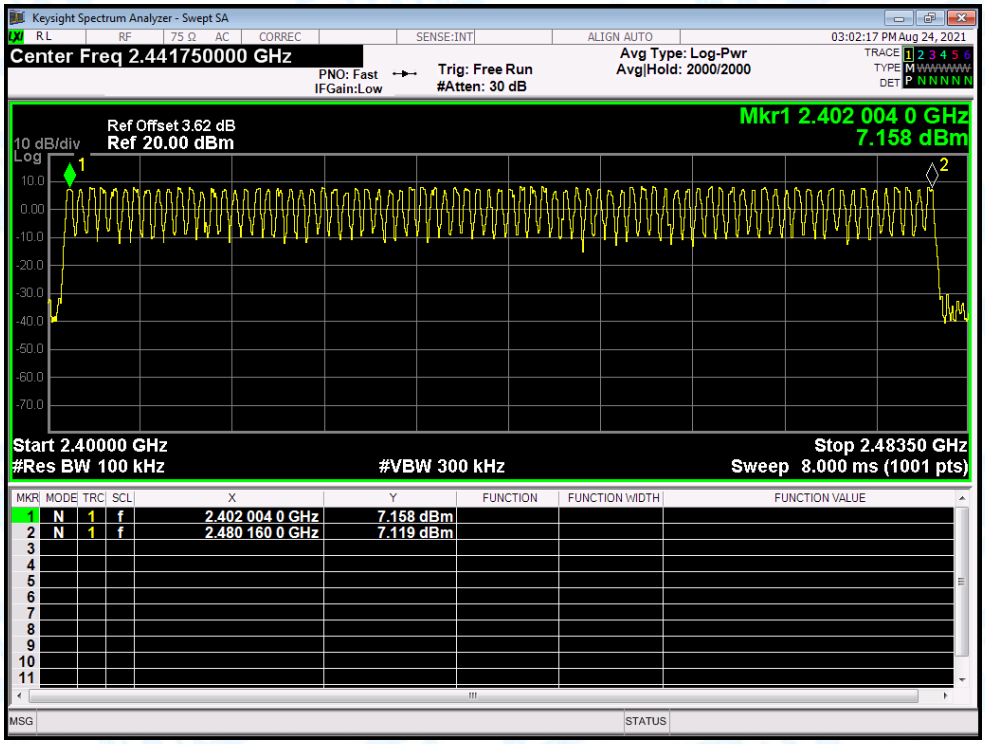
CFS NVNT 3-DH1 2480MHz Ant1



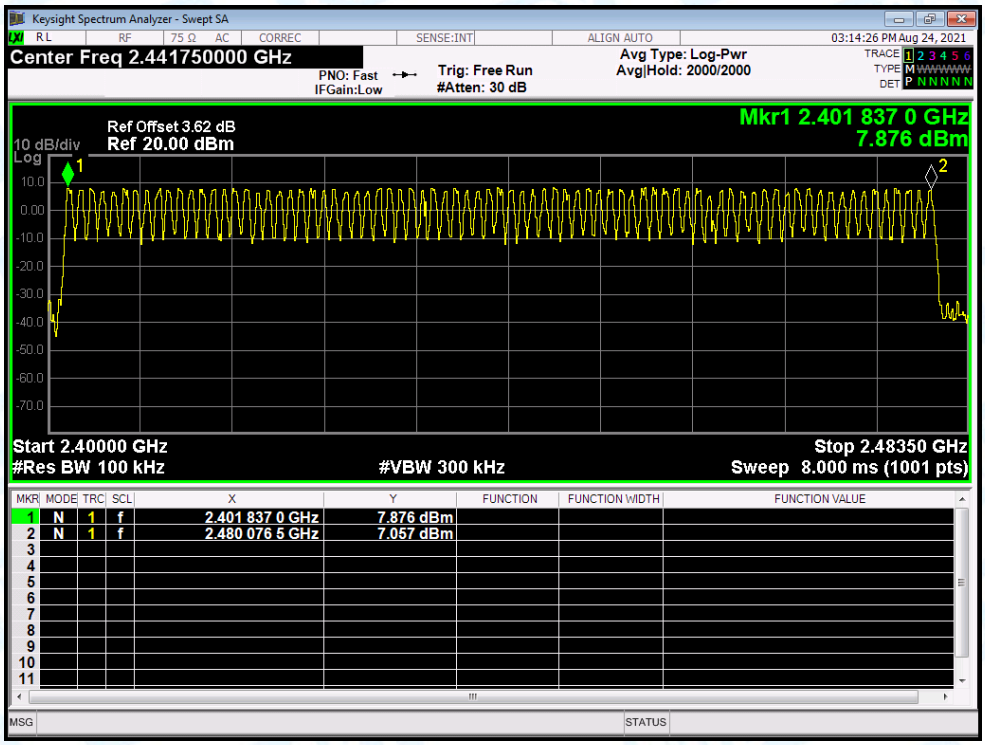
4.Number of Hopping Channel

Condition	Mode	Hopping Number	Limit	Verdict
NVNT	1-DH1	79	15	Pass
NVNT	2-DH1	79	15	Pass
NVNT	3-DH1	79	15	Pass

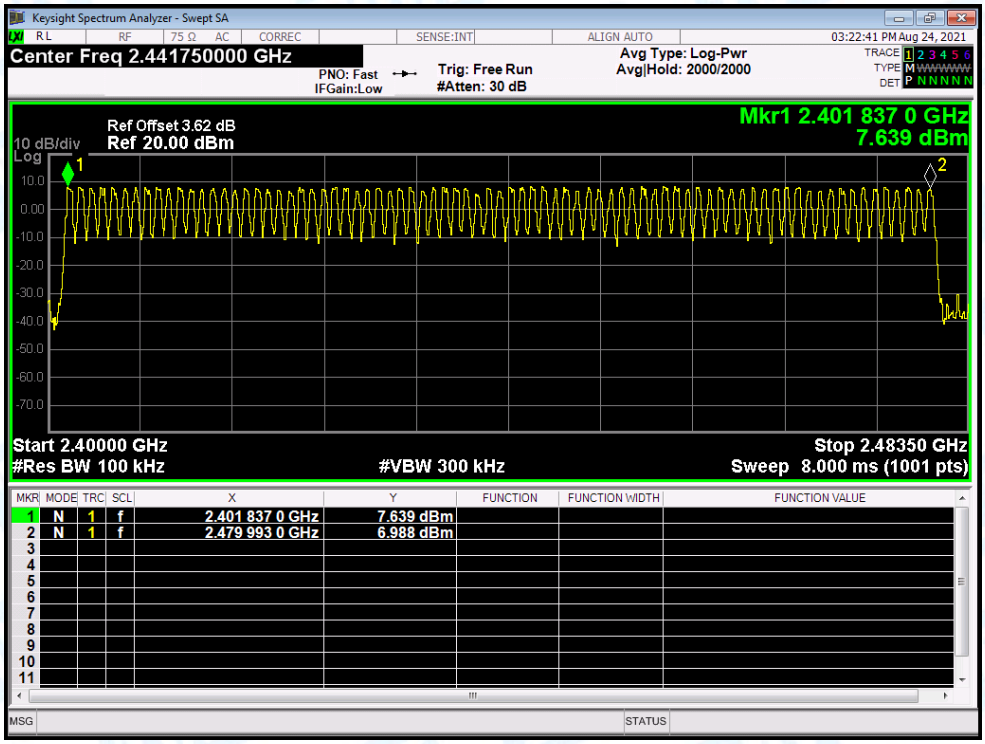
Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1



Hopping No. NVNT 3-DH1 2441MHz Ant1

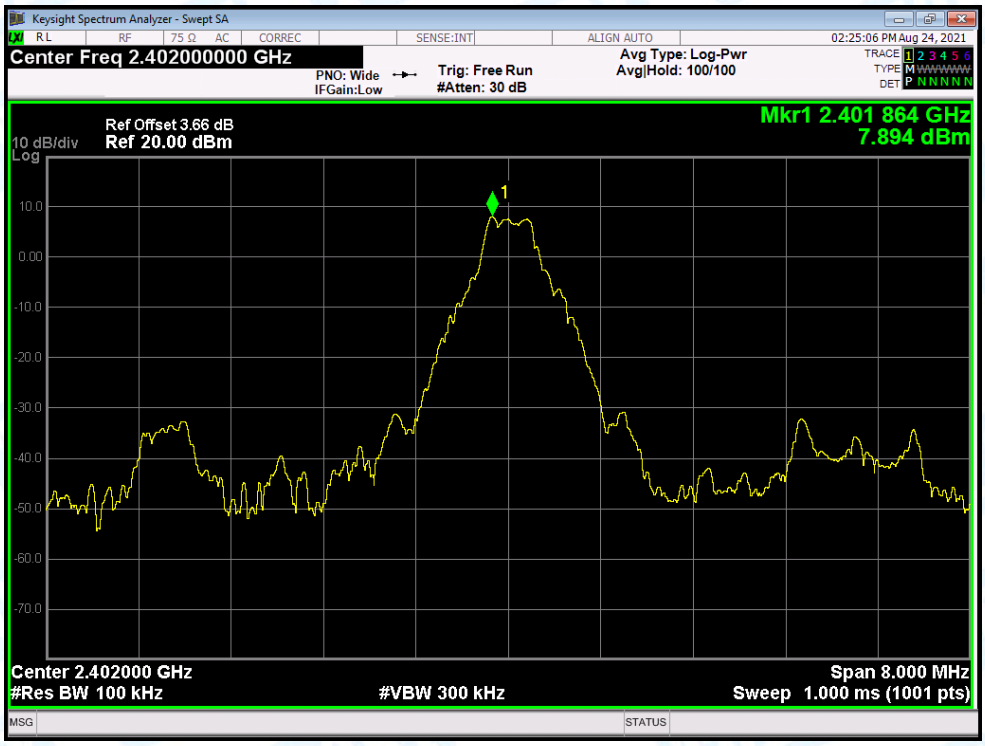


5.Band Edge

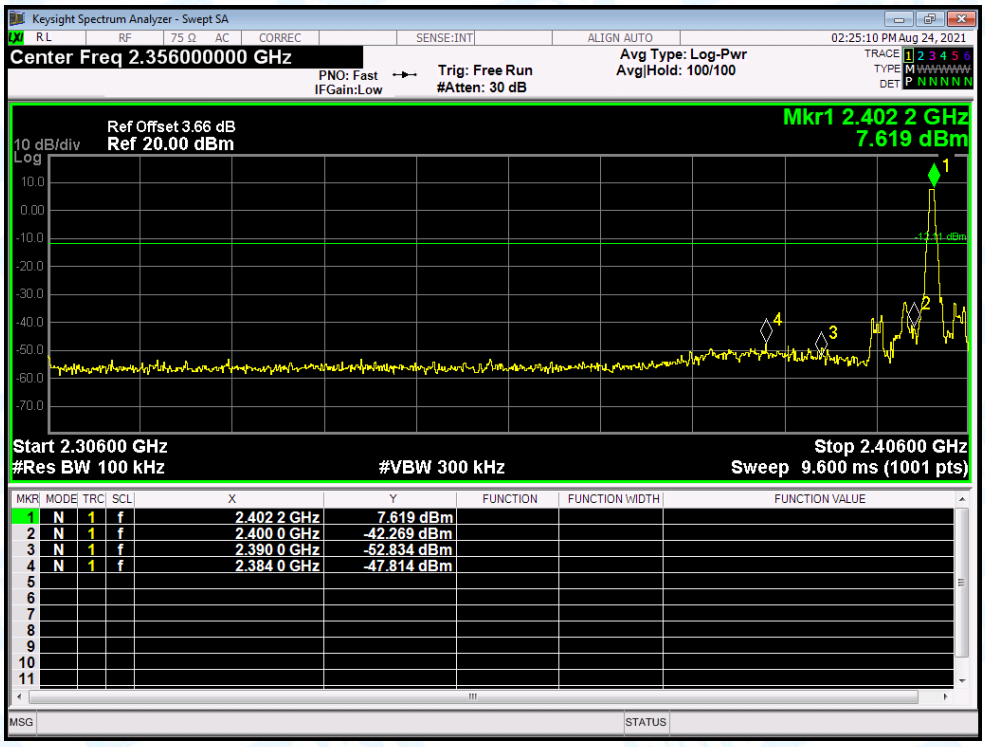
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	No-Hopping	-55.7	-20	Pass
NVNT	1-DH1	2480	No-Hopping	-40.02	-20	Pass
NVNT	2-DH1	2402	No-Hopping	-55.21	-20	Pass
NVNT	2-DH1	2480	No-Hopping	-41.88	-20	Pass
NVNT	3-DH1	2402	No-Hopping	-56.56	-20	Pass
NVNT	3-DH1	2480	No-Hopping	-40.88	-20	Pass

Test Graphs

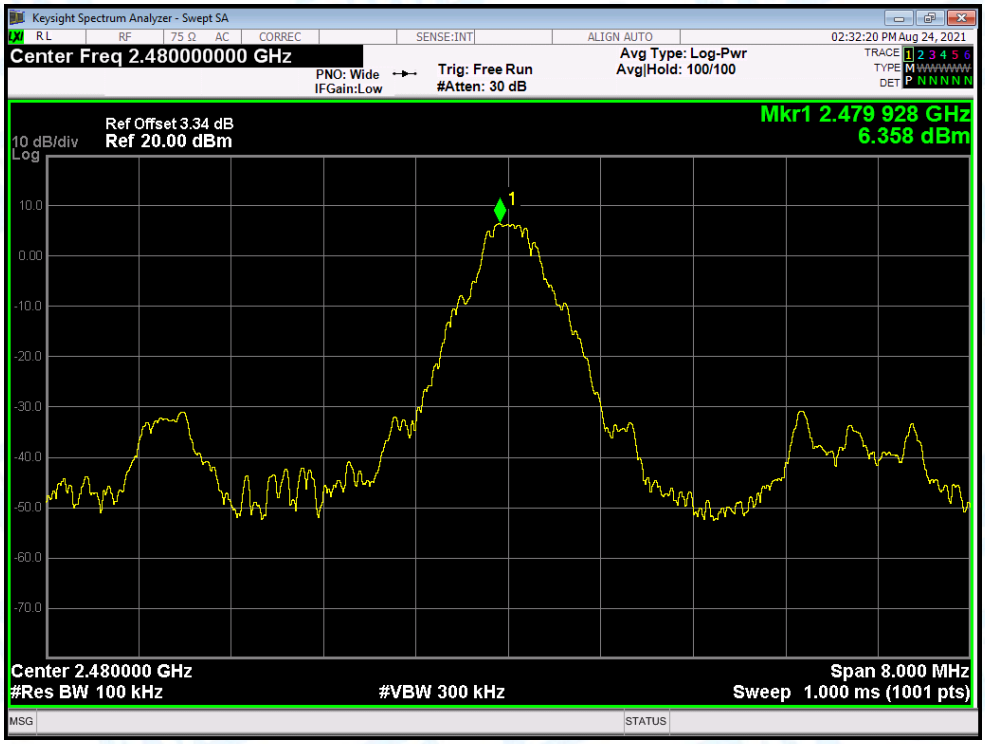
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



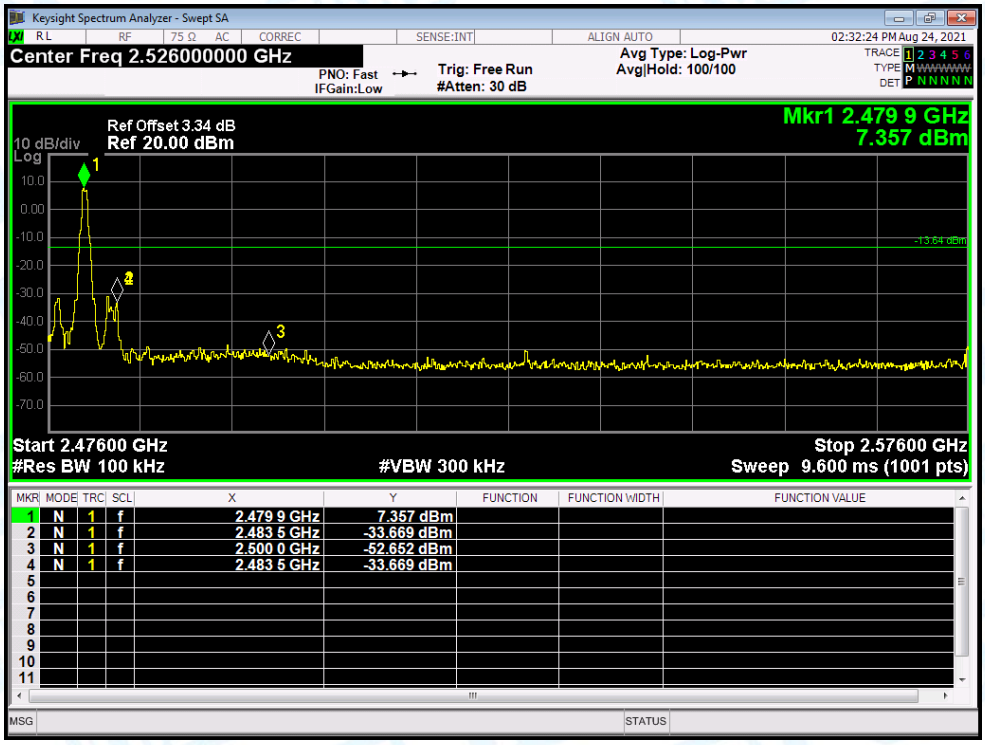
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref

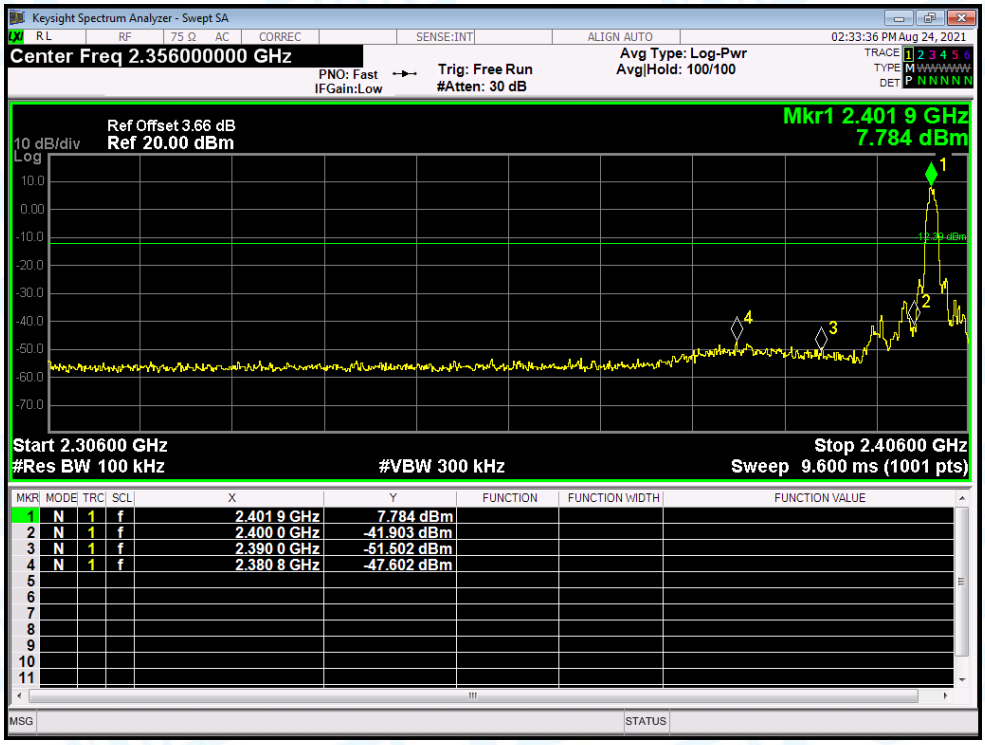


Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission

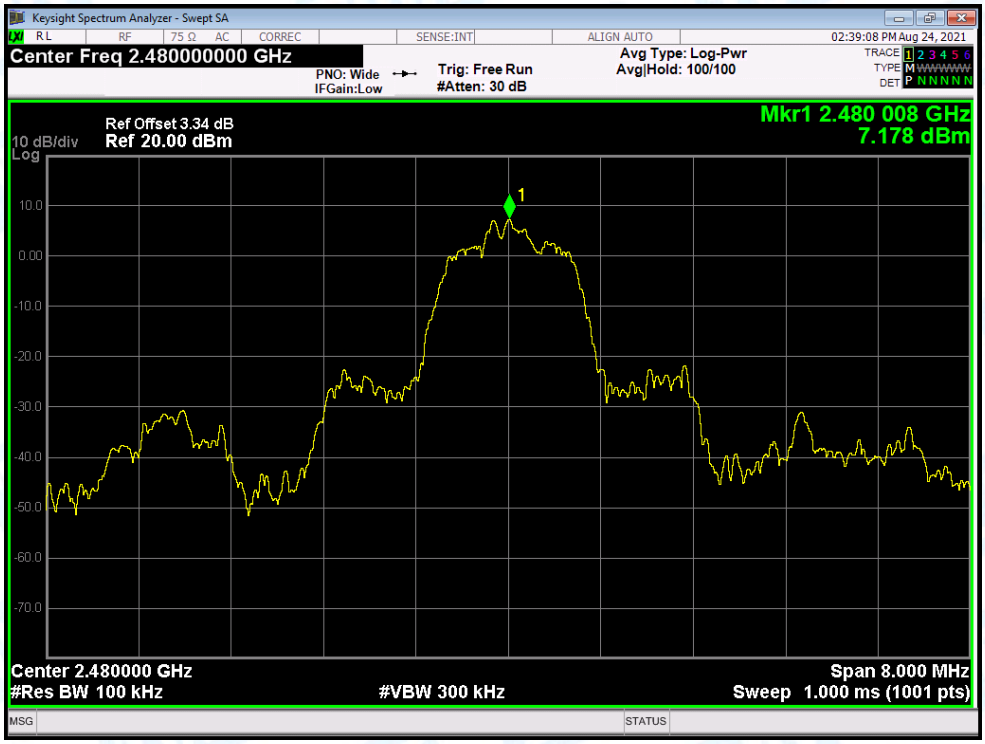


Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref

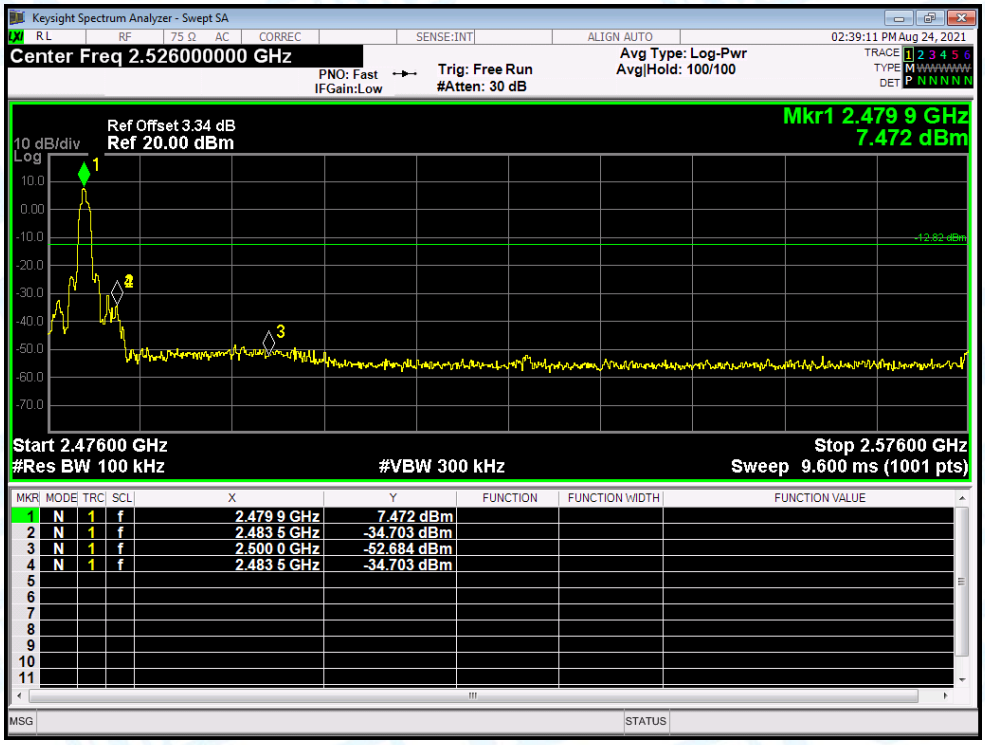
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref

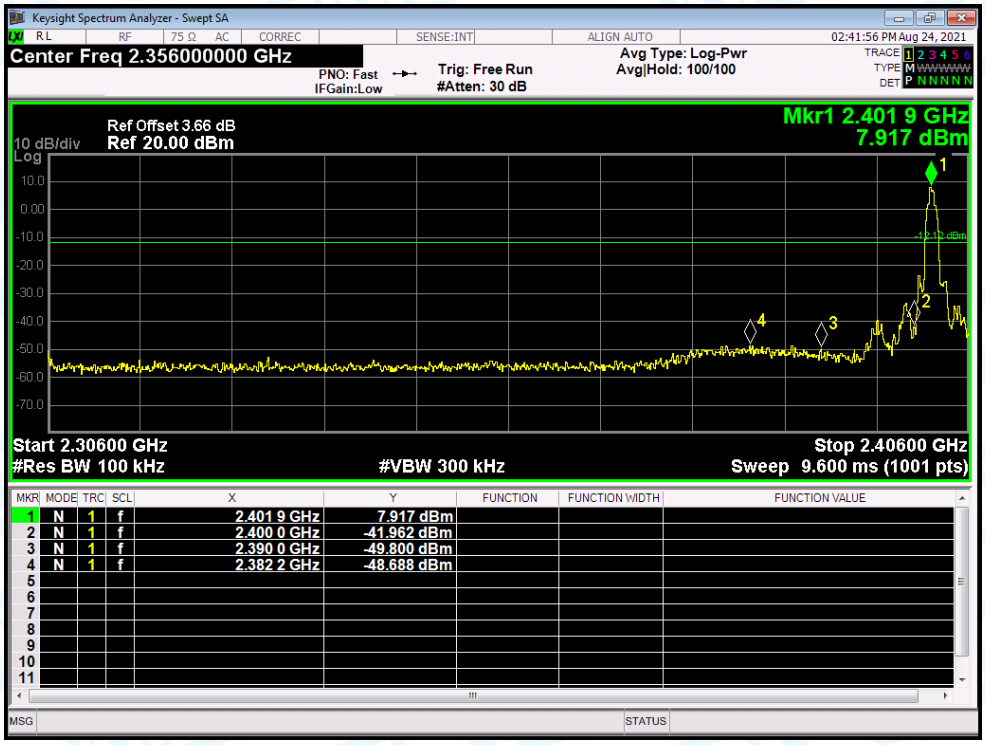


Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



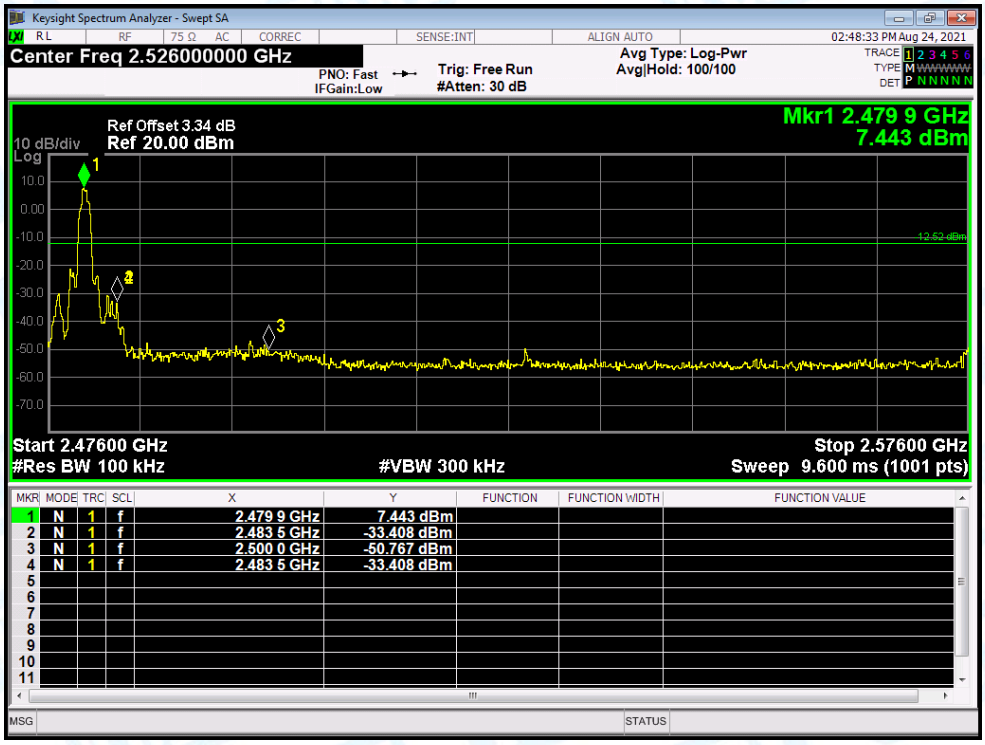
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Ref

Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



Band Edge NVNT 3-DH1 2480MHz Ant1 No-Hopping Ref

Band Edge NVNT 3-DH1 2480MHz Ant1 No-Hopping Emission



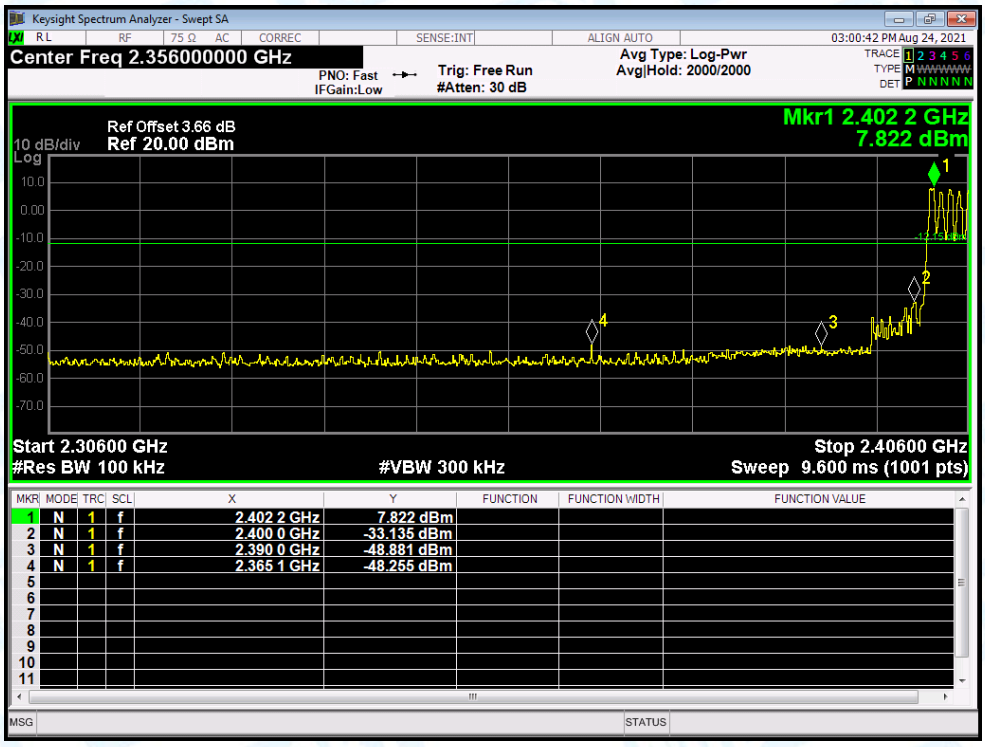
6.Band Edge(Hopping)

Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Hopping	-56.1	-20	Pass
NVNT	1-DH1	2480	Hopping	-42.21	-20	Pass
NVNT	2-DH1	2402	Hopping	-54.59	-20	Pass
NVNT	2-DH1	2480	Hopping	-42.86	-20	Pass
NVNT	3-DH1	2402	Hopping	-55.46	-20	Pass
NVNT	3-DH1	2480	Hopping	-42.27	-20	Pass

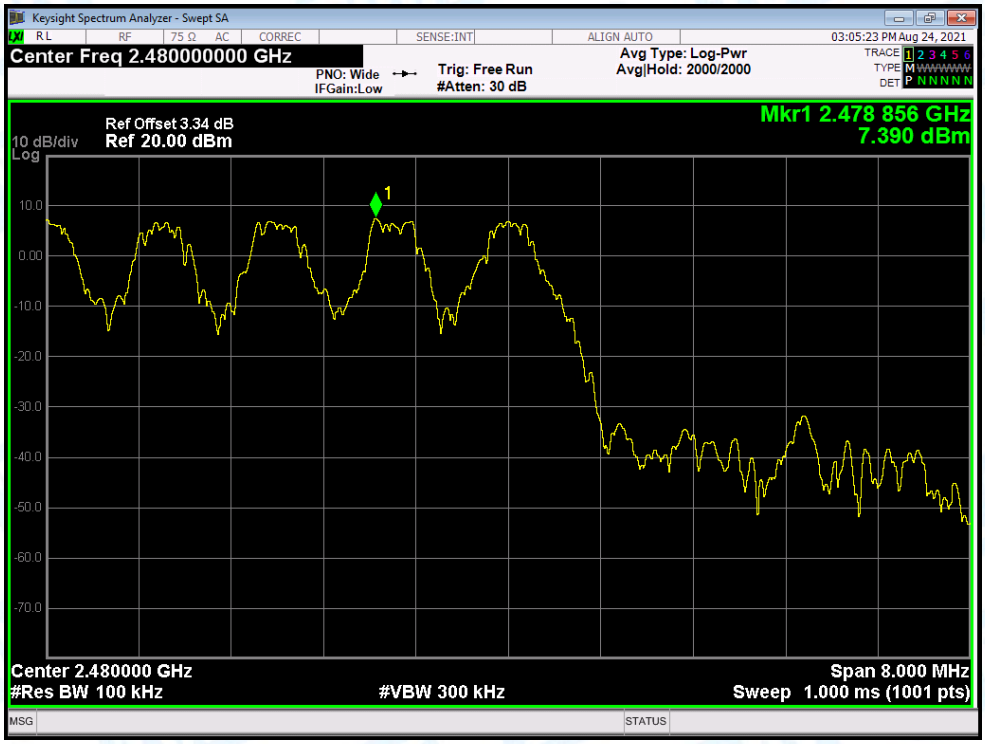
Test Graphs

Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref

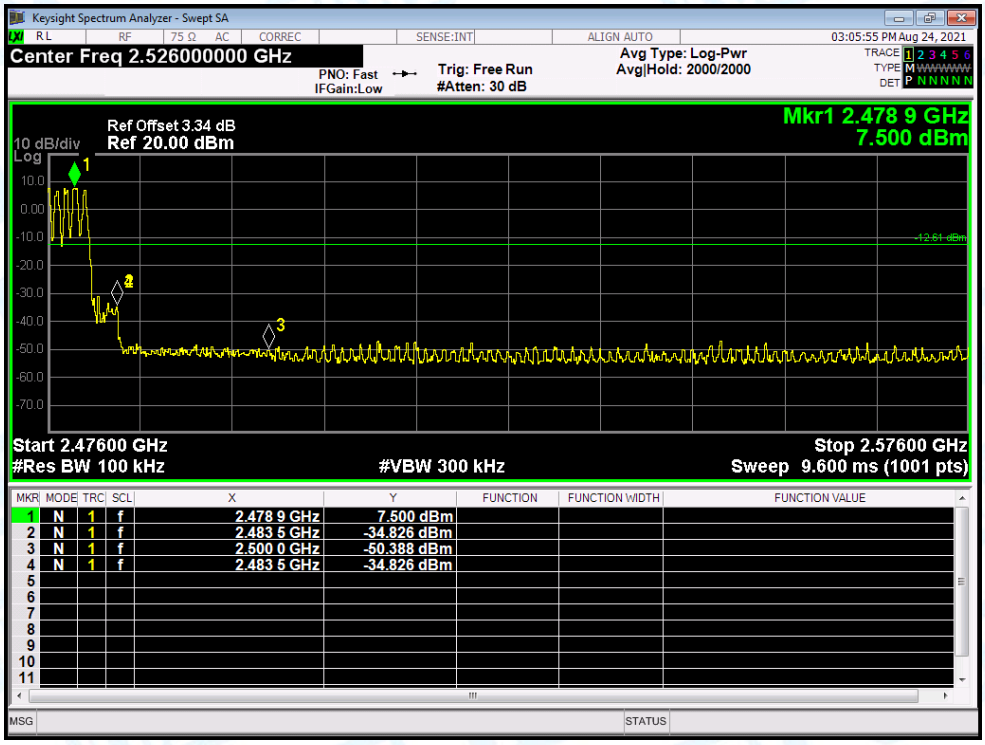
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref

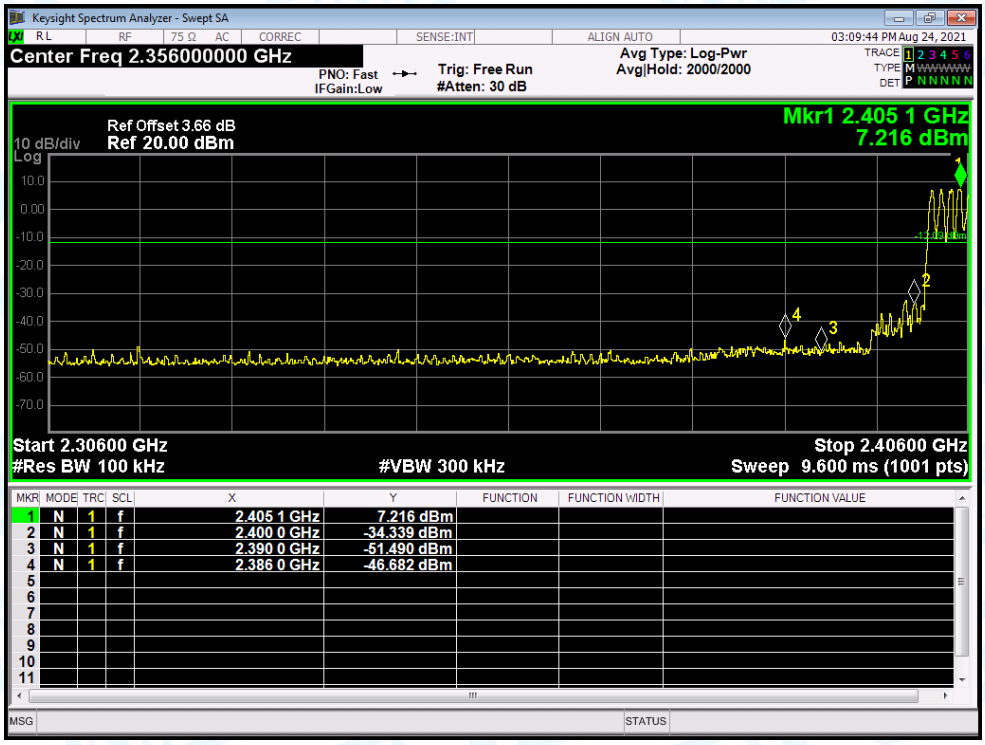


Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



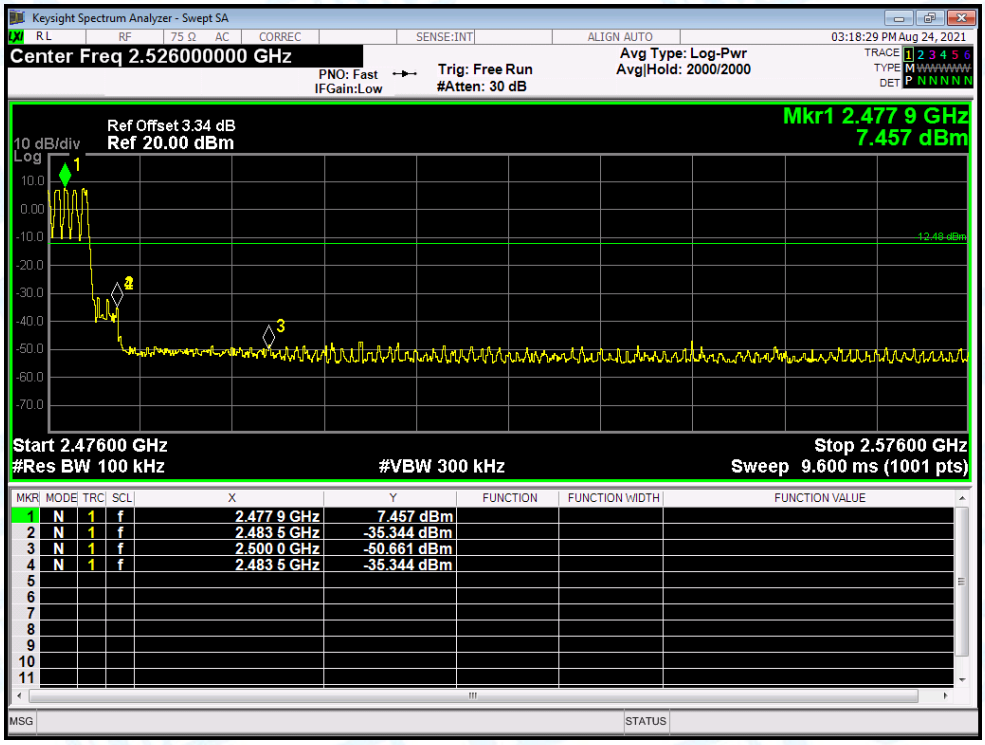
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Ref

Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission

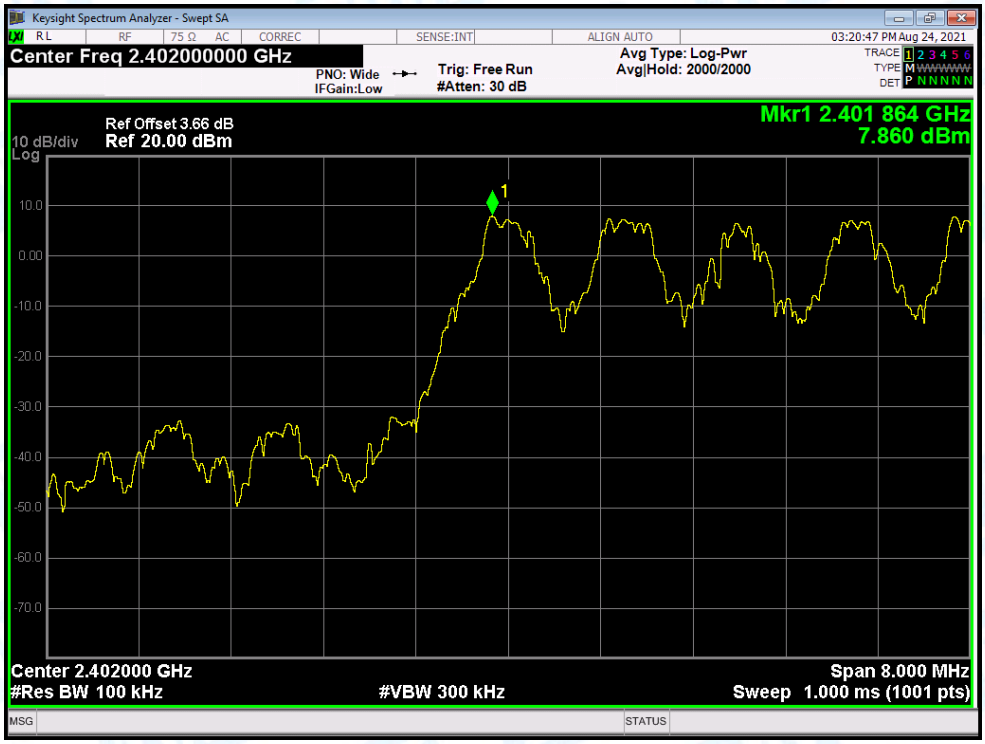


Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Ref

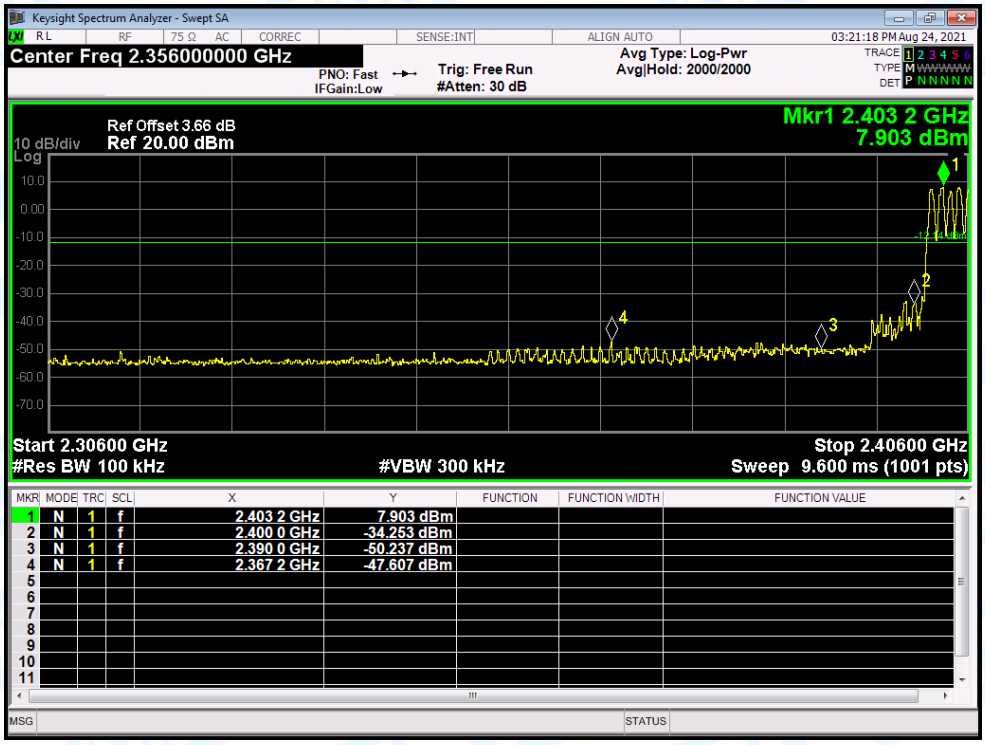
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Ref

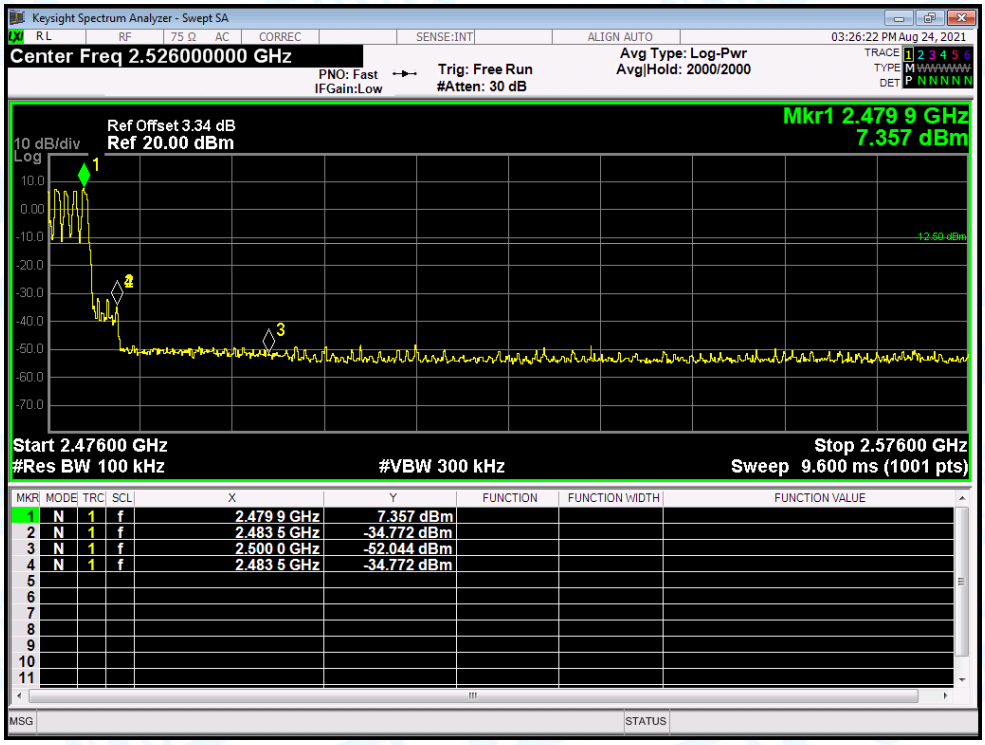


Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 3-DH1 2480MHz Ant1 Hopping Ref

Band Edge(Hopping) NVNT 3-DH1 2480MHz Ant1 Hopping Emission

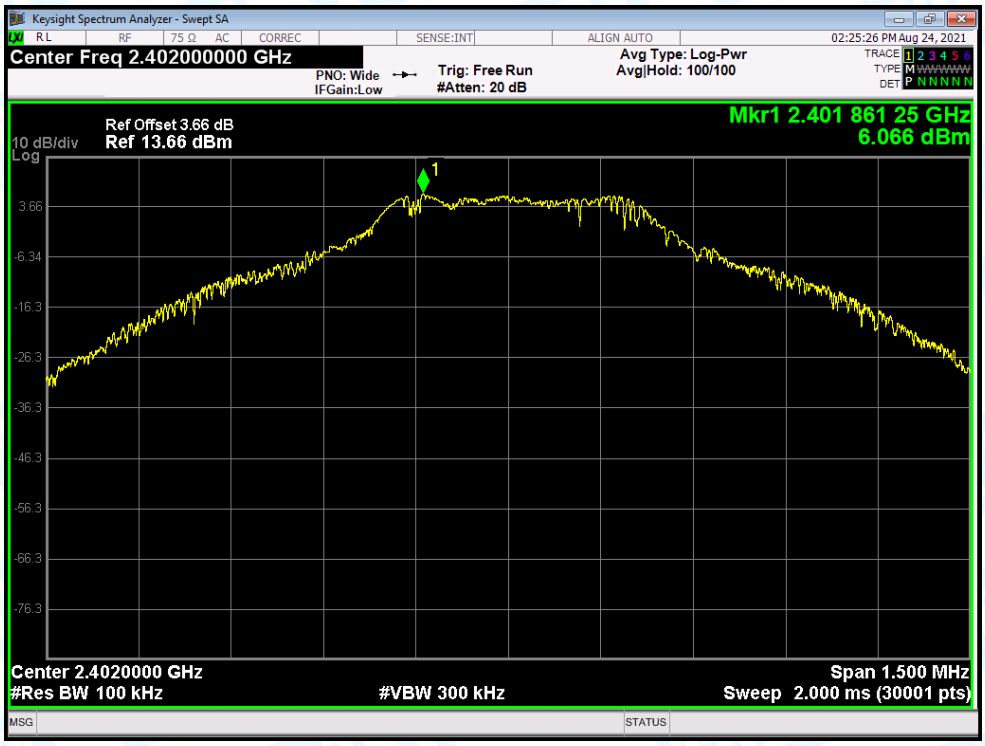


7.Conducted RF Spurious Emission

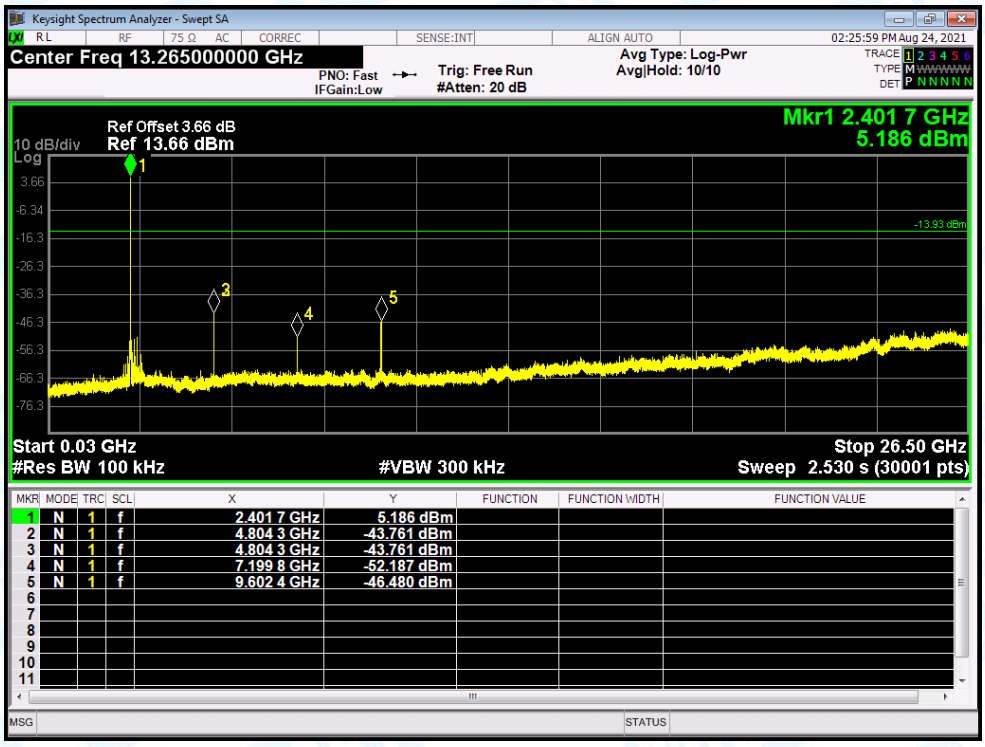
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	-49.83	-20	Pass
NVNT	1-DH1	2441	-46.34	-20	Pass
NVNT	1-DH1	2480	-44.74	-20	Pass
NVNT	2-DH1	2402	-52.29	-20	Pass
NVNT	2-DH1	2441	-43.47	-20	Pass
NVNT	2-DH1	2480	-46.95	-20	Pass
NVNT	3-DH1	2402	-48.33	-20	Pass
NVNT	3-DH1	2441	-49.31	-20	Pass
NVNT	3-DH1	2480	-48.83	-20	Pass

Test Graphs

Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref

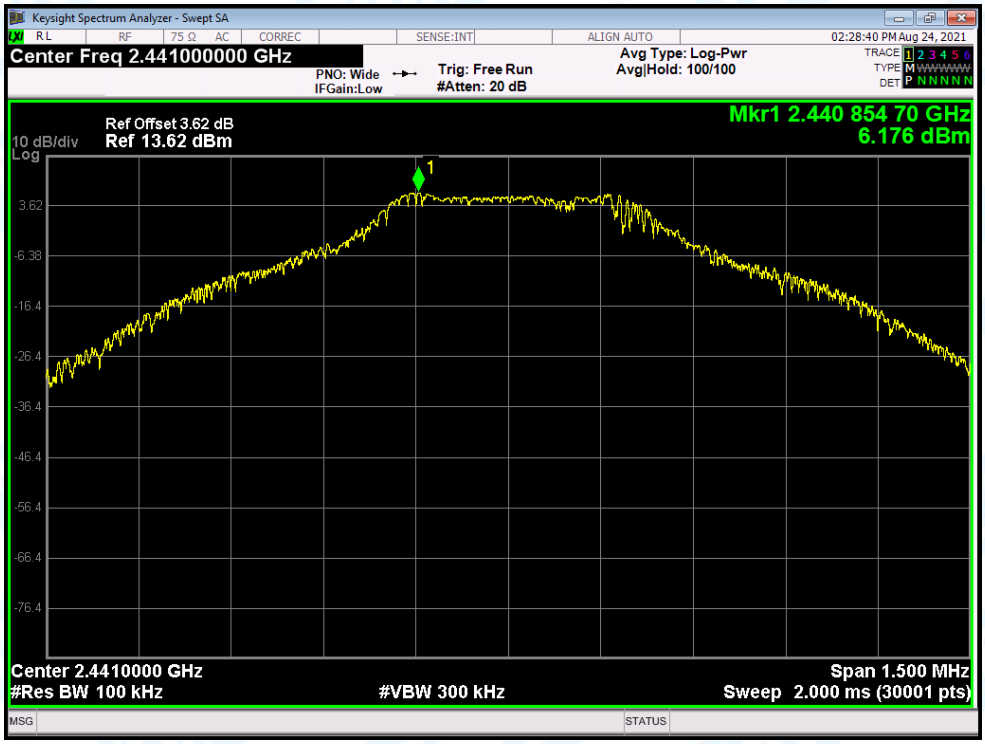


Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission

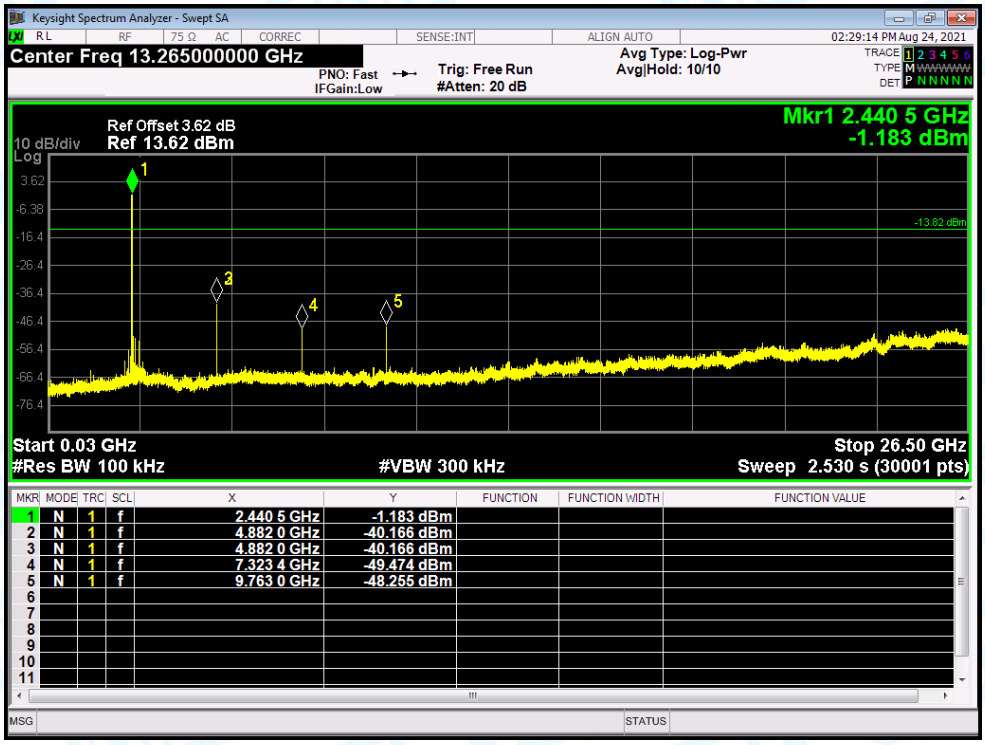


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.401 7 GHz	5.186 dBm			
2	N	1	f	4.804 3 GHz	-43.761 dBm			
3	N	1	f	4.804 3 GHz	-43.761 dBm			
4	N	1	f	7.199 8 GHz	-52.187 dBm			
5	N	1	f	9.602 4 GHz	-46.480 dBm			
6								
7								
8								
9								
10								
11								

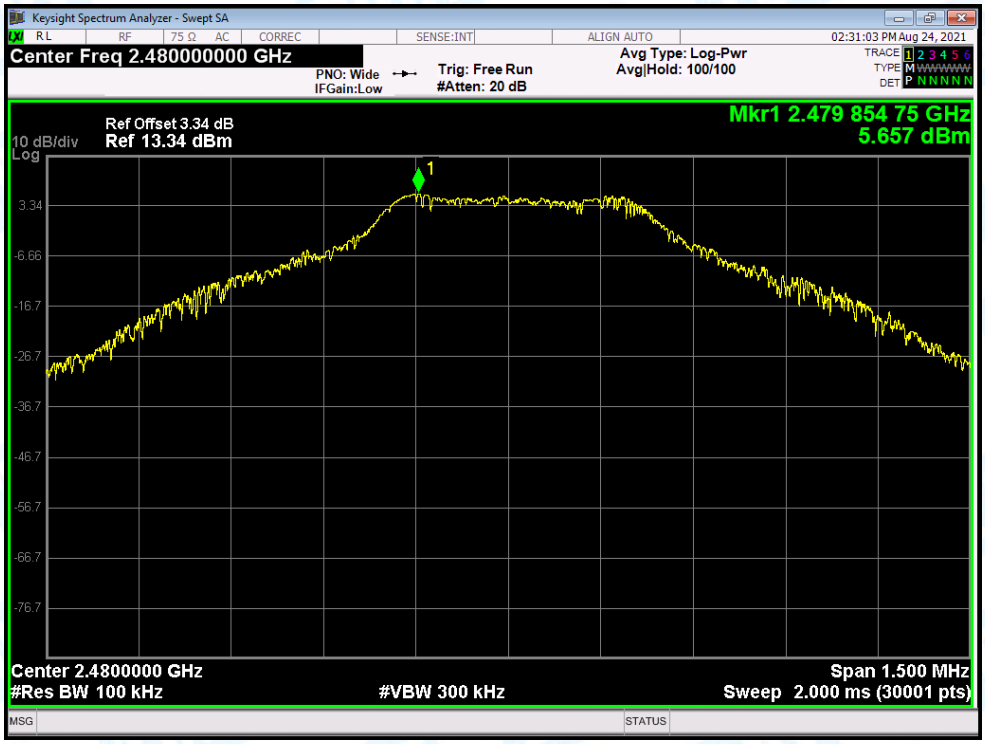
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



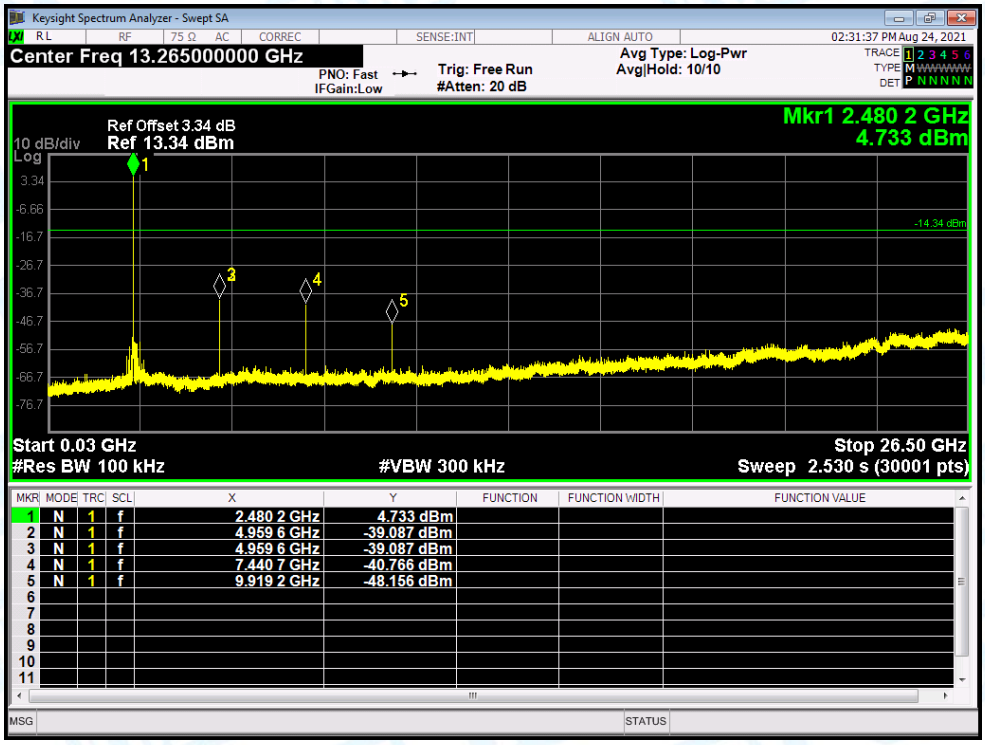
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



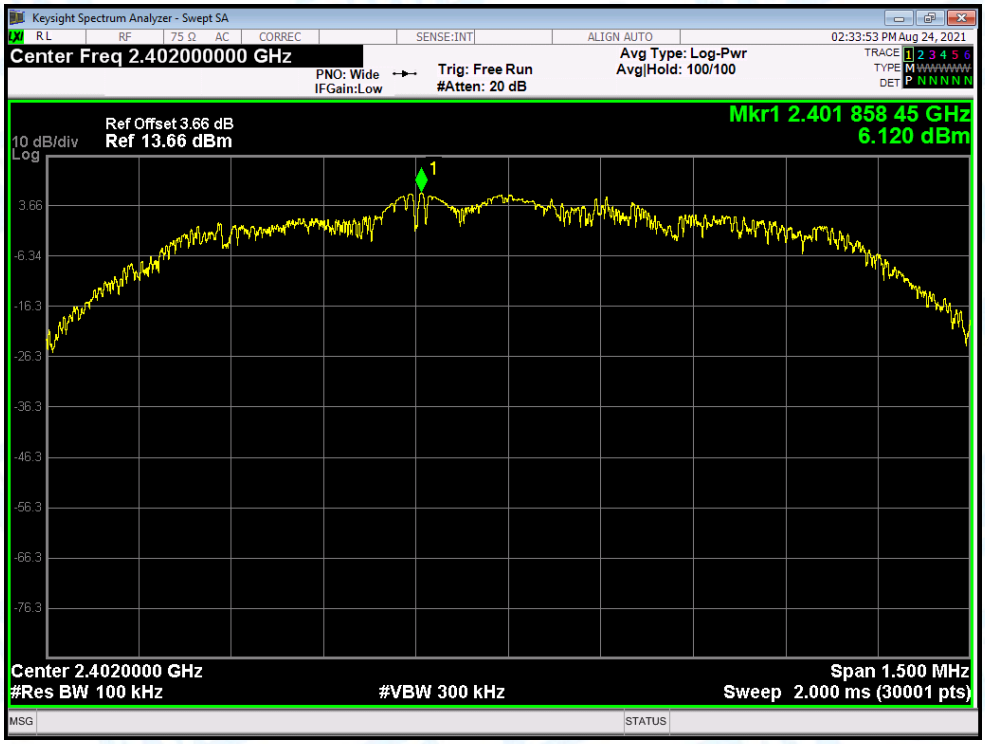
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



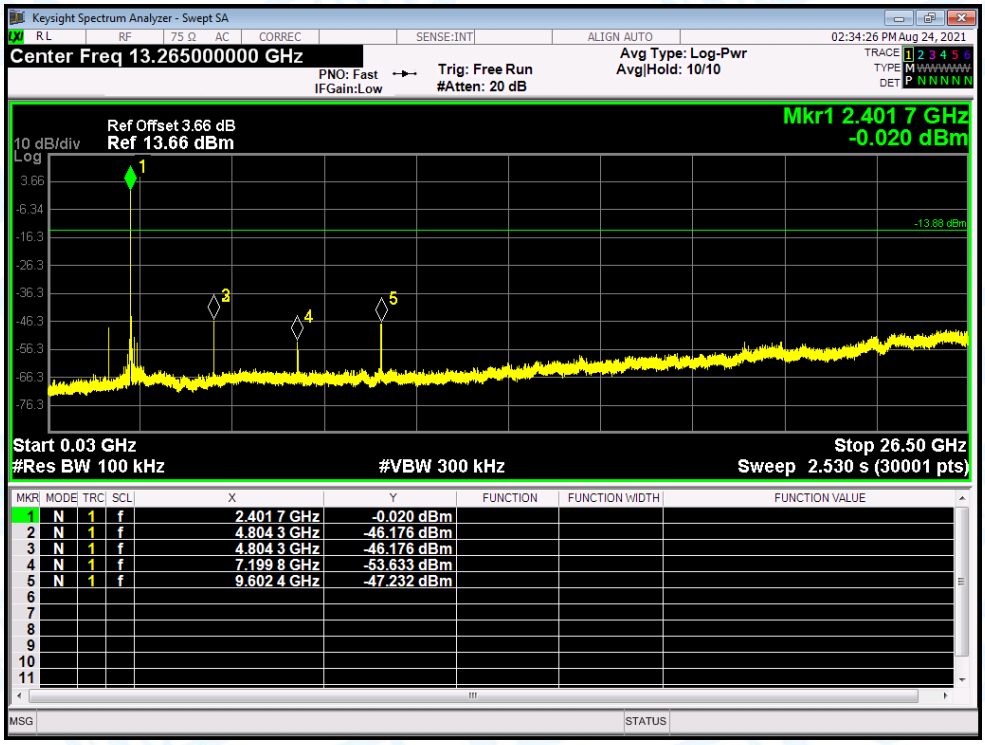
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



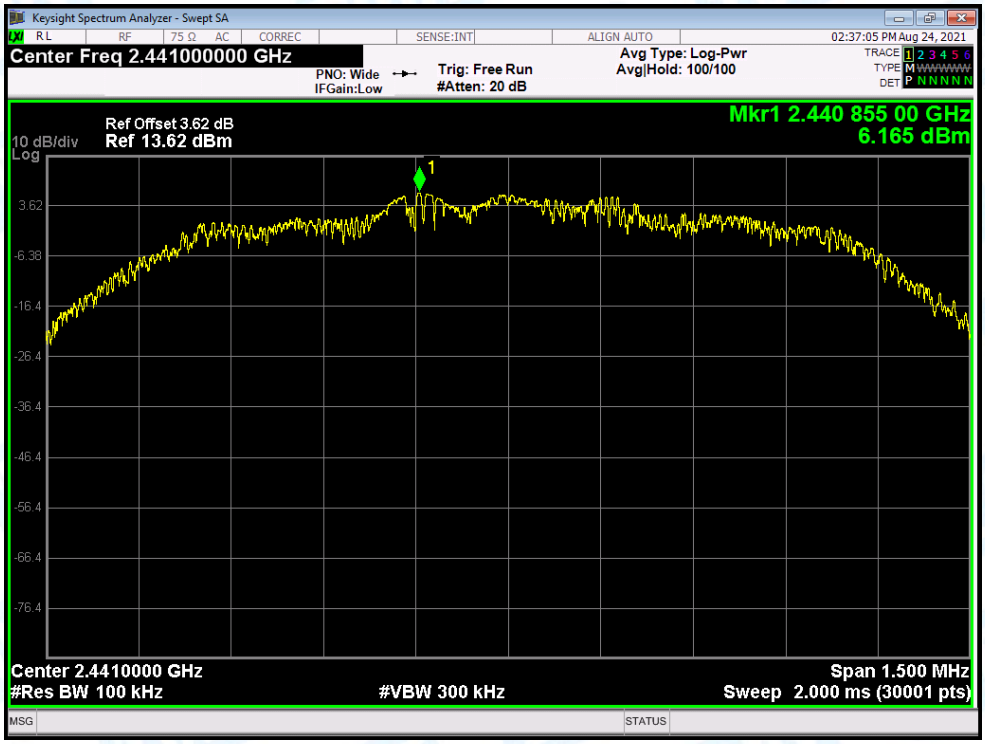
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



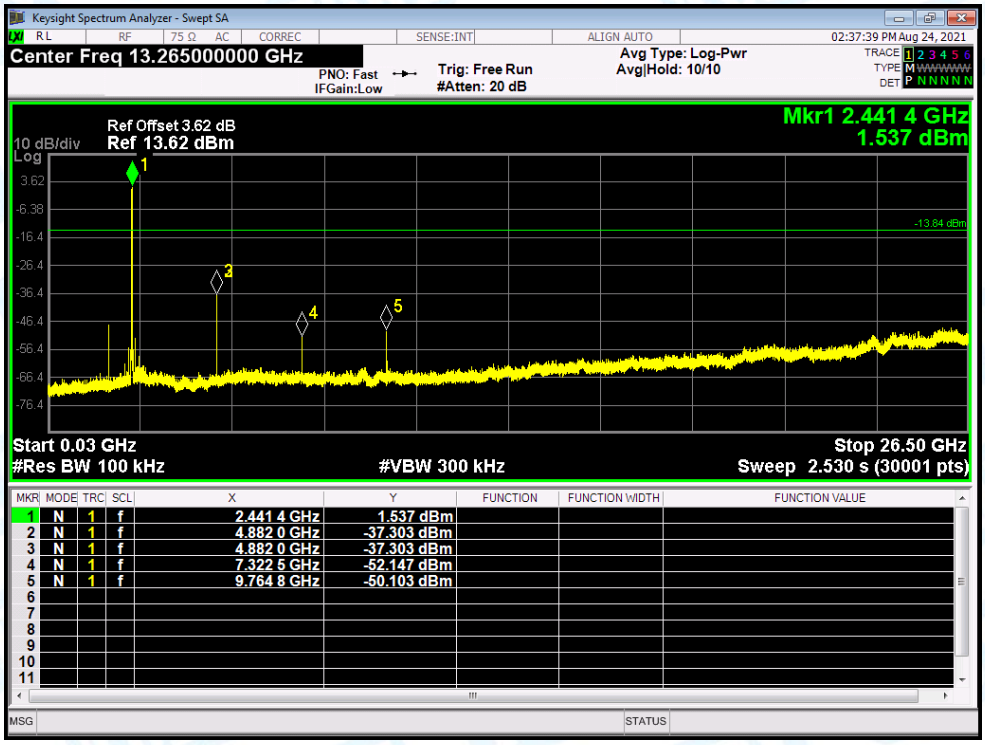
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



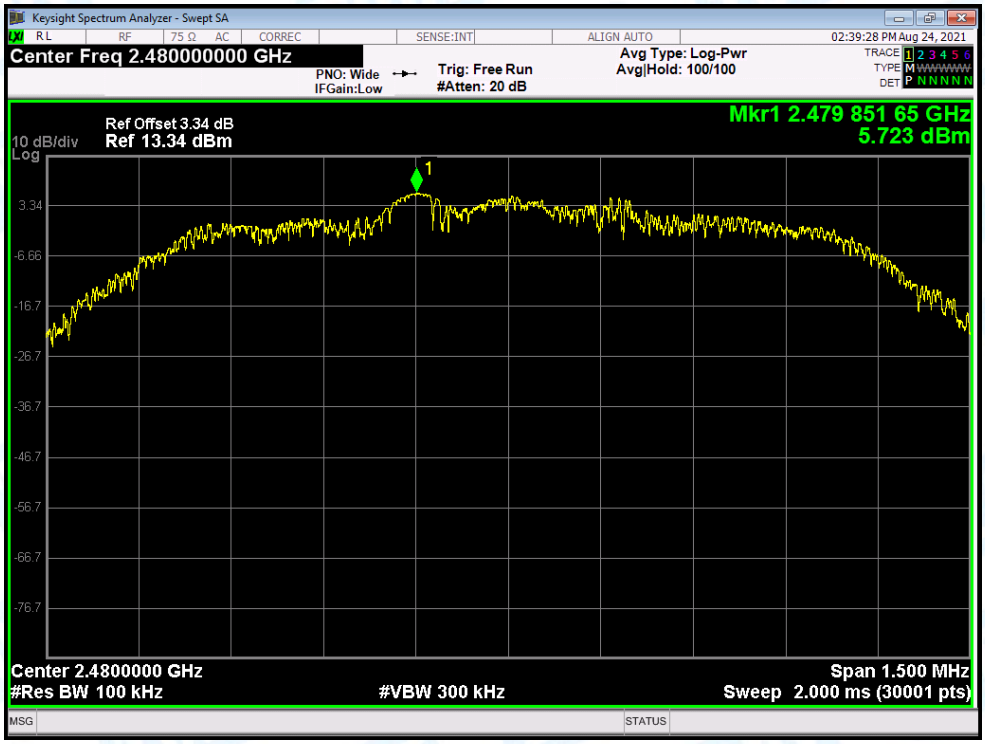
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



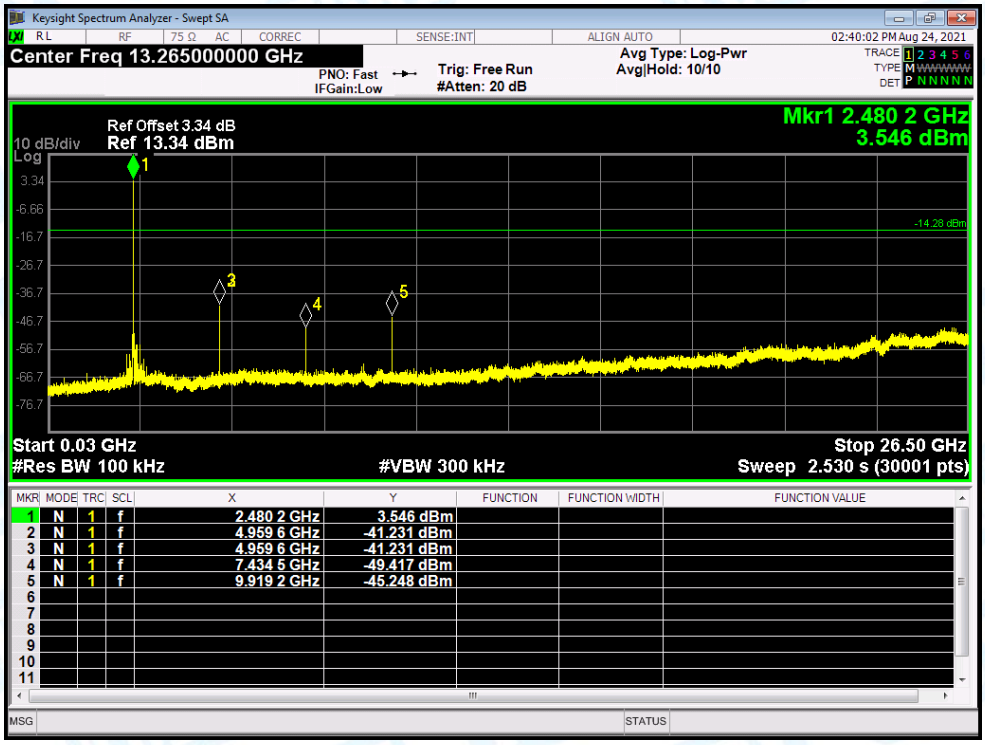
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref

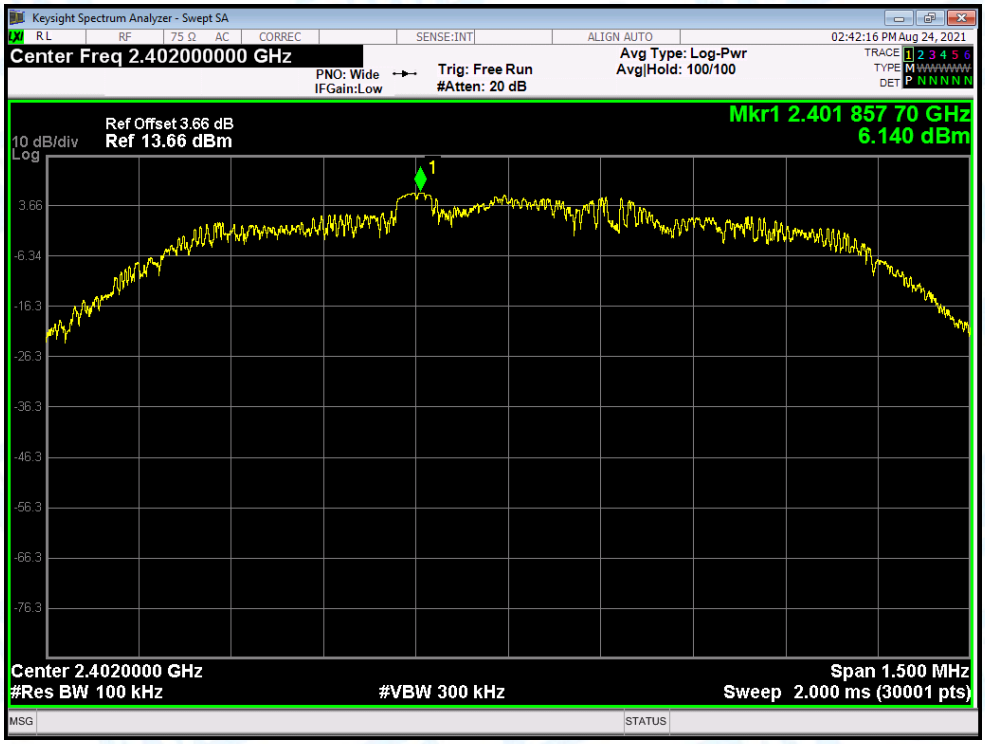


Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission

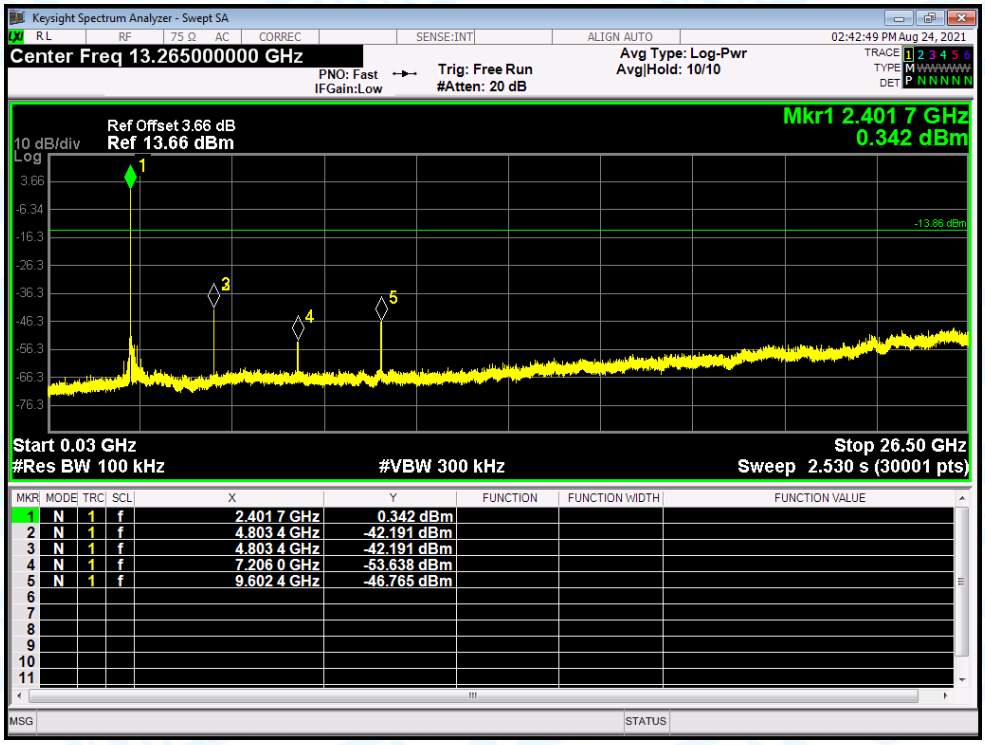


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.480 2 GHz	3.546 dBm			
2	N	1	f	4.959 6 GHz	-41.231 dBm			
3	N	1	f	4.959 6 GHz	-41.231 dBm			
4	N	1	f	7.434 5 GHz	-49.417 dBm			
5	N	1	f	9.919 2 GHz	-45.248 dBm			
6								
7								
8								
9								
10								
11								

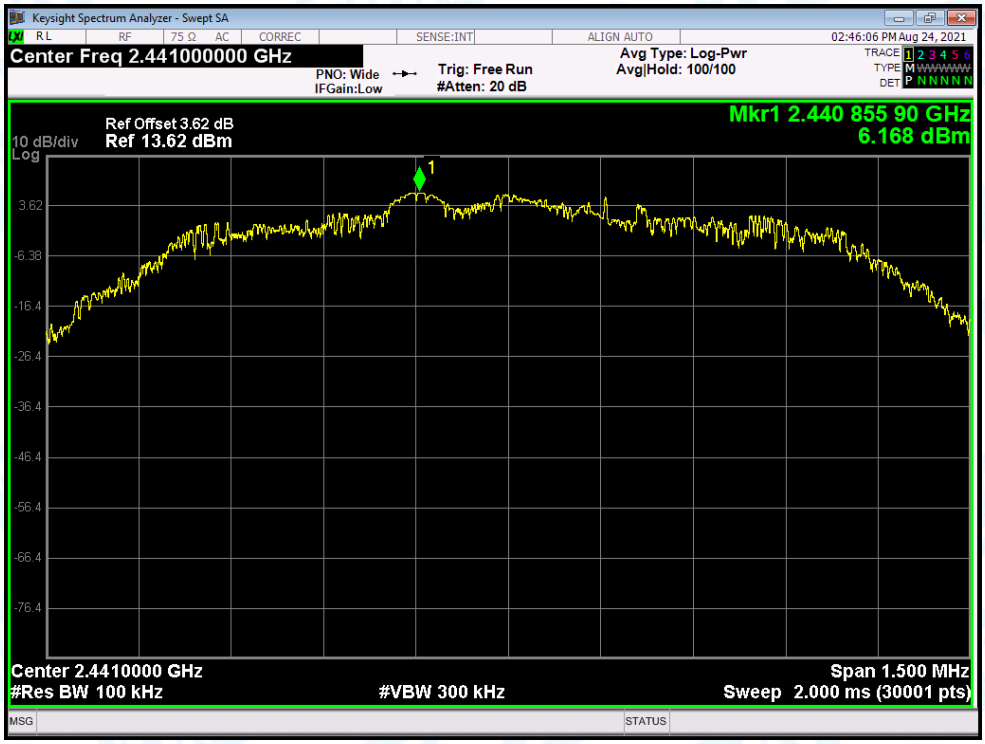
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



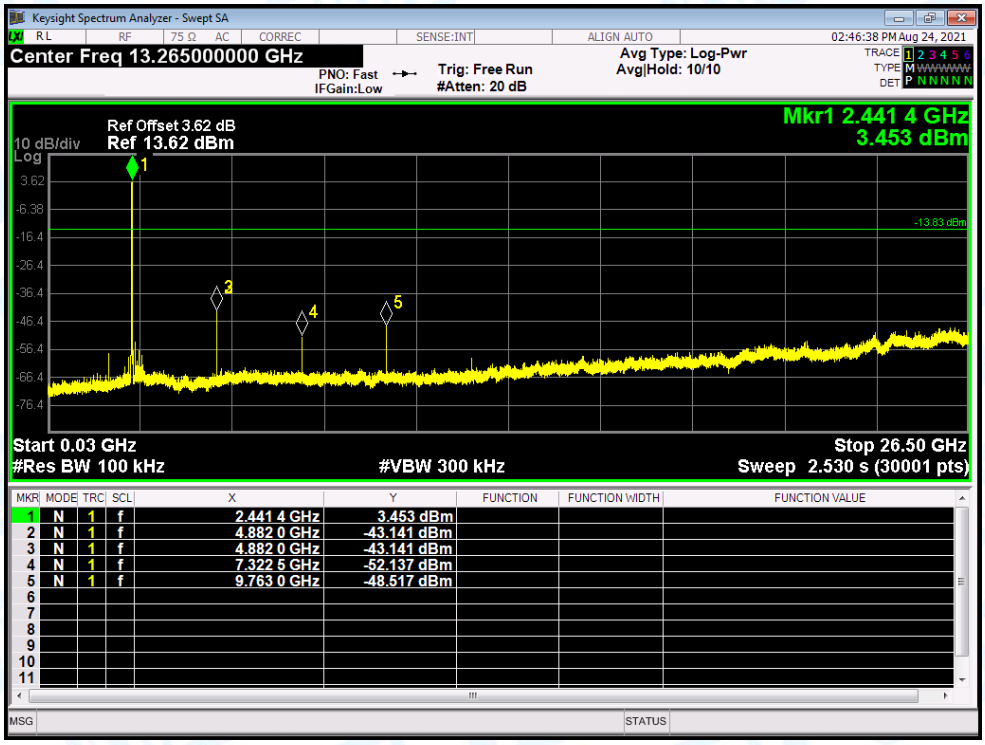
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission



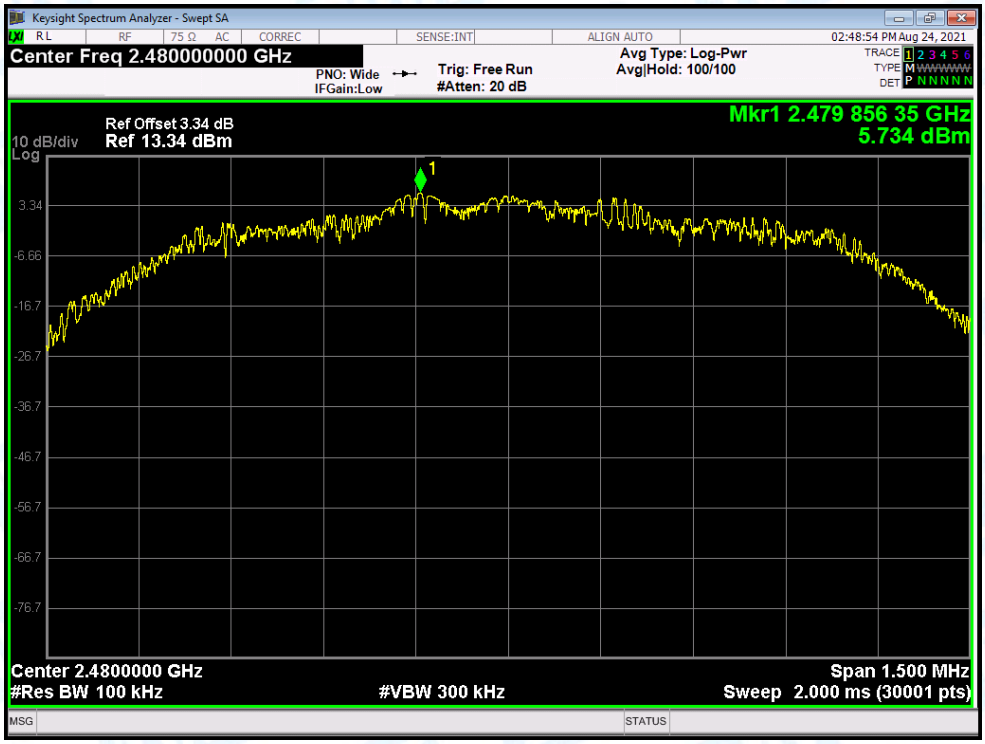
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref



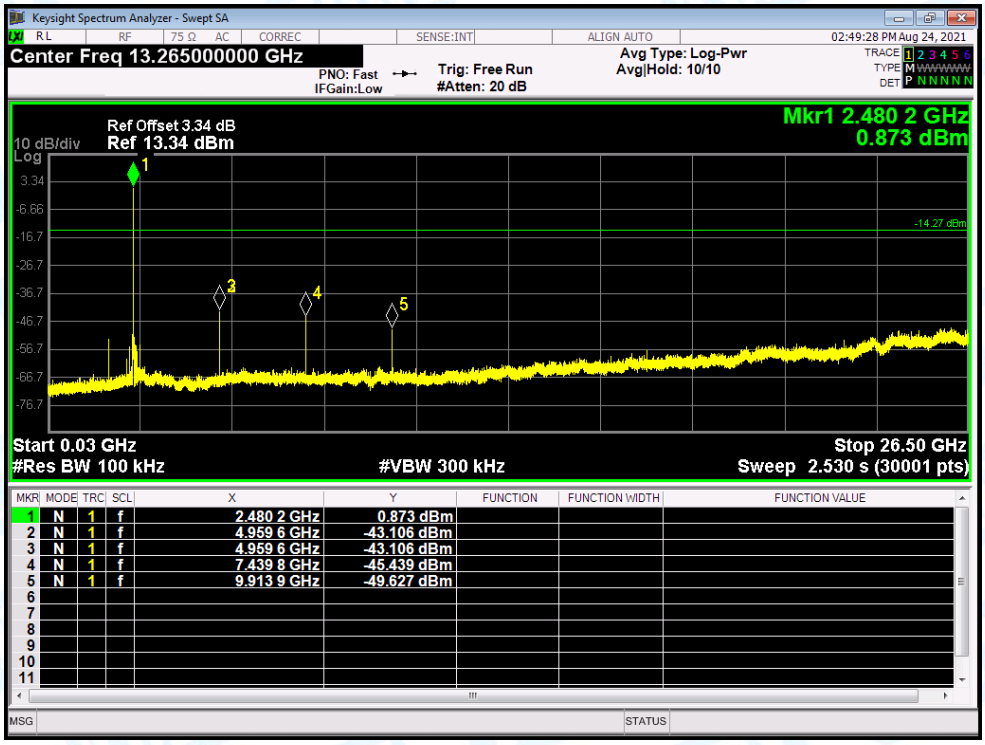
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

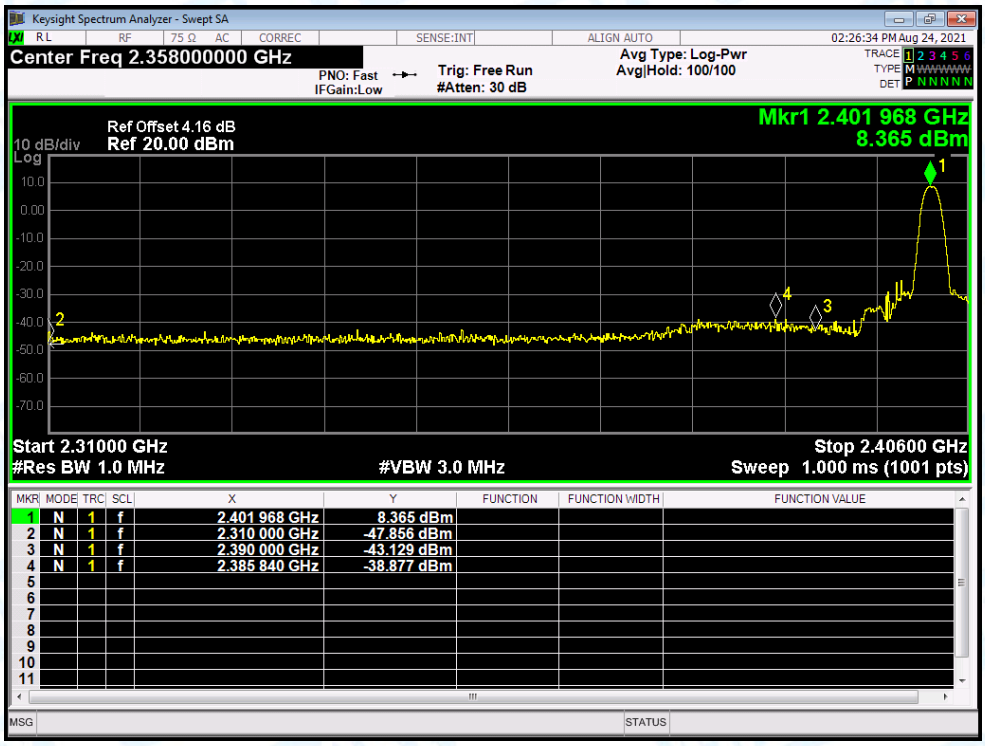


8.Restrict Band

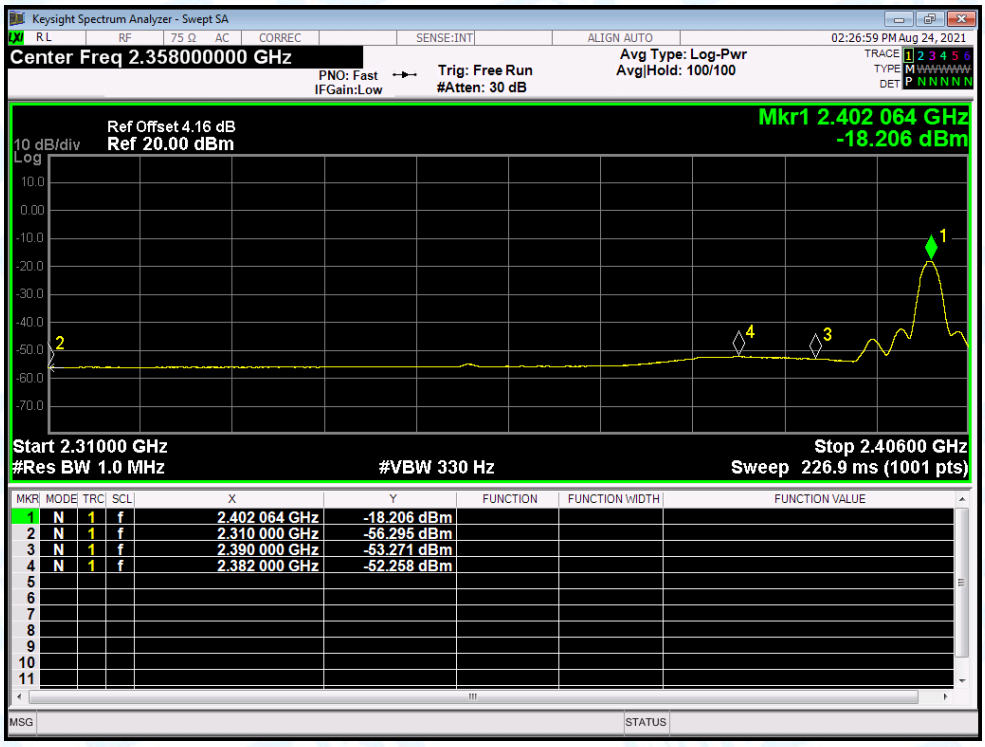
Condition	Mode	Frequency (MHz)	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	No-Hopping	2310	-43.56	2	53.7	Peak	74	Pass
NVNT	1-DH1	2402	No-Hopping	2310	-56.28	2	40.98	Average	54	Pass
NVNT	1-DH1	2402	No-Hopping	2385.84	-38.87	2	58.39	Peak	74	Pass
NVNT	1-DH1	2402	No-Hopping	2382	-52.25	2	45.01	Average	54	Pass
NVNT	1-DH1	2402	No-Hopping	2390	-42.87	2	54.39	Peak	74	Pass
NVNT	1-DH1	2402	No-Hopping	2390	-53.25	2	44.01	Average	54	Pass
NVNT	1-DH1	2480	No-Hopping	2483.5	-30.26	2	67	Peak	74	Pass
NVNT	1-DH1	2480	No-Hopping	2483.5	-45.18	2	52.08	Average	54	Pass
NVNT	1-DH1	2480	No-Hopping	2483.584	-29.9	2	67.36	Peak	74	Pass
NVNT	1-DH1	2480	No-Hopping	2483.512	-45.18	2	52.08	Average	54	Pass
NVNT	1-DH1	2480	No-Hopping	2500	-41.05	2	56.21	Peak	74	Pass
NVNT	1-DH1	2480	No-Hopping	2500	-52.77	2	44.49	Average	54	Pass
NVNT	2-DH1	2402	No-Hopping	2310	-43.65	2	53.61	Peak	74	Pass
NVNT	2-DH1	2402	No-Hopping	2310	-56.46	2	40.8	Average	54	Pass
NVNT	2-DH1	2402	No-Hopping	2379.408	-37.71	2	59.55	Peak	74	Pass
NVNT	2-DH1	2402	No-Hopping	2381.136	-52.11	2	45.15	Average	54	Pass
NVNT	2-DH1	2402	No-Hopping	2390	-42.34	2	54.92	Peak	74	Pass
NVNT	2-DH1	2402	No-Hopping	2390	-53.13	2	44.13	Average	54	Pass
NVNT	2-DH1	2480	No-Hopping	2483.5	-30.05	2	67.21	Peak	74	Pass
NVNT	2-DH1	2480	No-Hopping	2483.5	-45.67	2	51.59	Average	54	Pass
NVNT	2-DH1	2480	No-Hopping	2483.68	-29.55	2	67.71	Peak	74	Pass
NVNT	2-DH1	2480	No-Hopping	2483.512	-45.67	2	51.59	Average	54	Pass
NVNT	2-DH1	2480	No-Hopping	2500	-40.67	2	56.59	Peak	74	Pass
NVNT	2-DH1	2480	No-Hopping	2500	-52.46	2	44.8	Average	54	Pass
NVNT	3-DH1	2402	No-Hopping	2310	-46.24	2	51.02	Peak	74	Pass
NVNT	3-DH1	2402	No-Hopping	2310	-56.38	2	40.88	Average	54	Pass
NVNT	3-DH1	2402	No-Hopping	2382.48	-37.4	2	59.86	Peak	74	Pass
NVNT	3-DH1	2402	No-Hopping	2381.616	-52.08	2	45.18	Average	54	Pass
NVNT	3-DH1	2402	No-Hopping	2390	-42.41	2	54.85	Peak	74	Pass
NVNT	3-DH1	2402	No-Hopping	2390	-52.99	2	44.27	Average	54	Pass
NVNT	3-DH1	2480	No-Hopping	2483.5	-30.79	2	66.47	Peak	74	Pass
NVNT	3-DH1	2480	No-Hopping	2483.5	-45.7	2	51.56	Average	54	Pass
NVNT	3-DH1	2480	No-Hopping	2483.536	-30.72	2	66.54	Peak	74	Pass
NVNT	3-DH1	2480	No-Hopping	2483.608	-45.5	2	51.76	Average	54	Pass
NVNT	3-DH1	2480	No-Hopping	2500	-42.37	2	54.89	Peak	74	Pass
NVNT	3-DH1	2480	No-Hopping	2500	-52.32	2	44.94	Average	54	Pass

Test Graphs

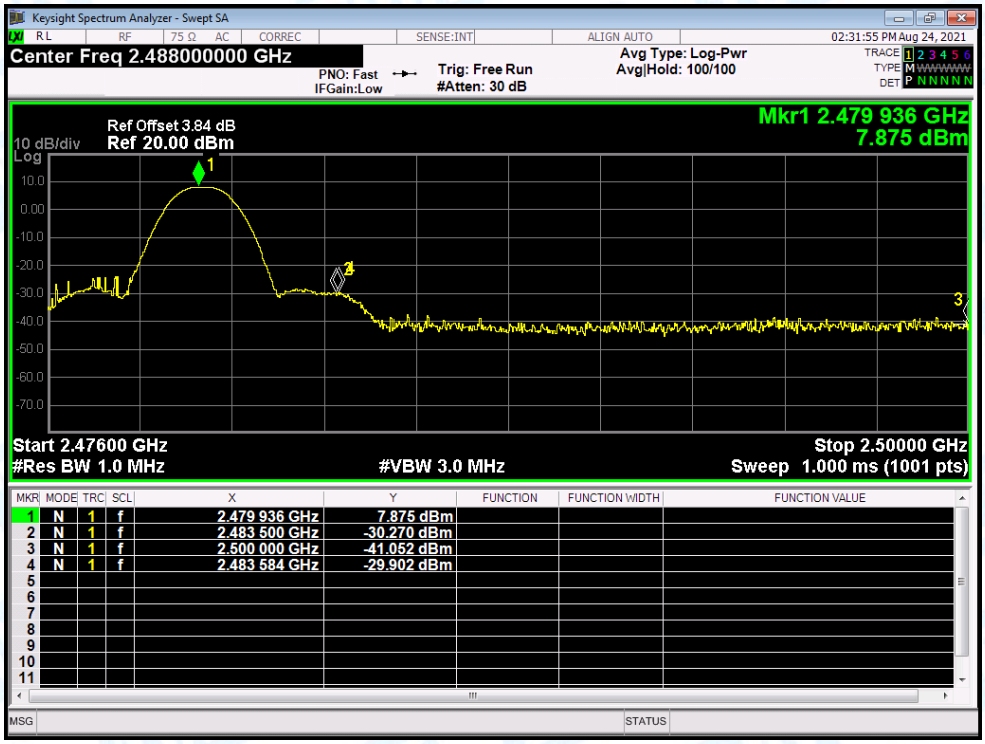
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



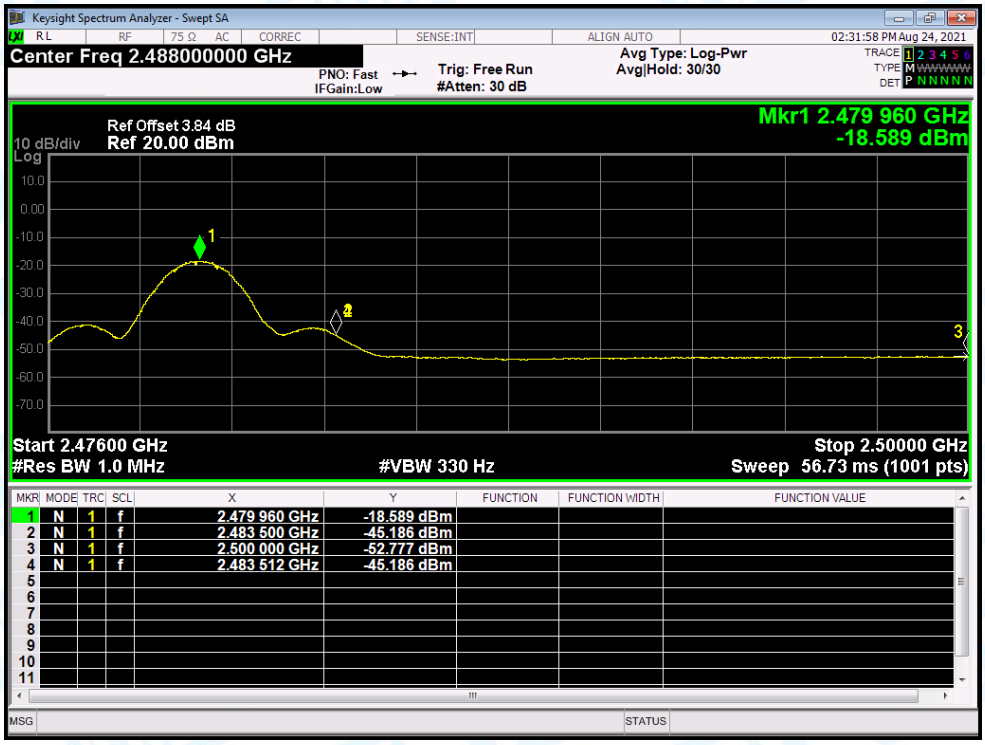
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



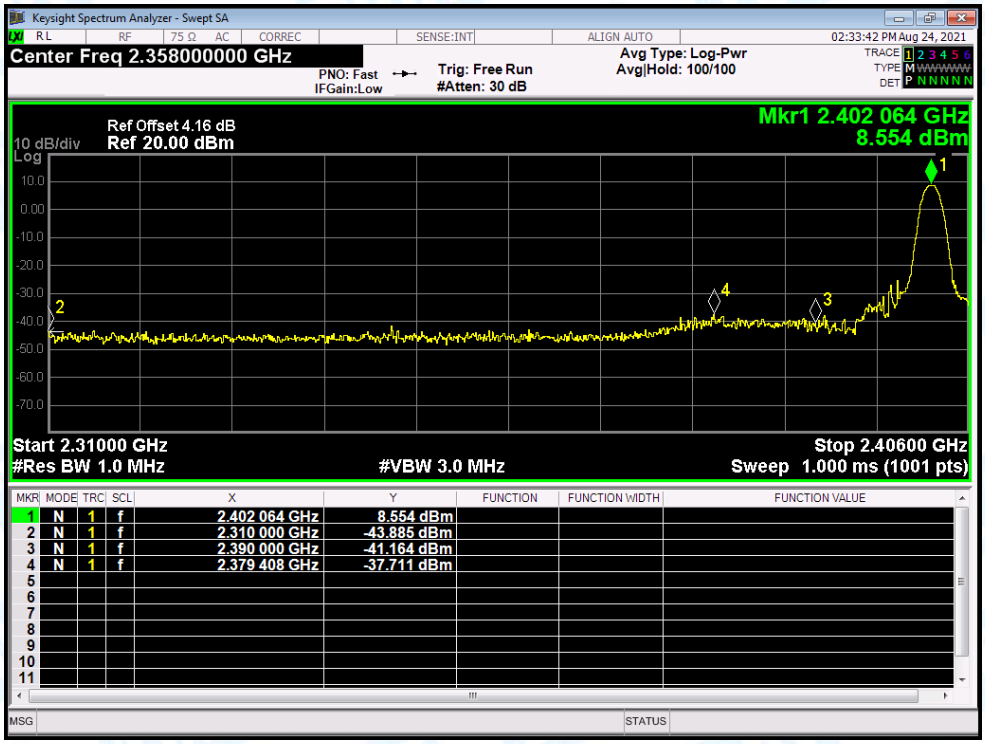
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



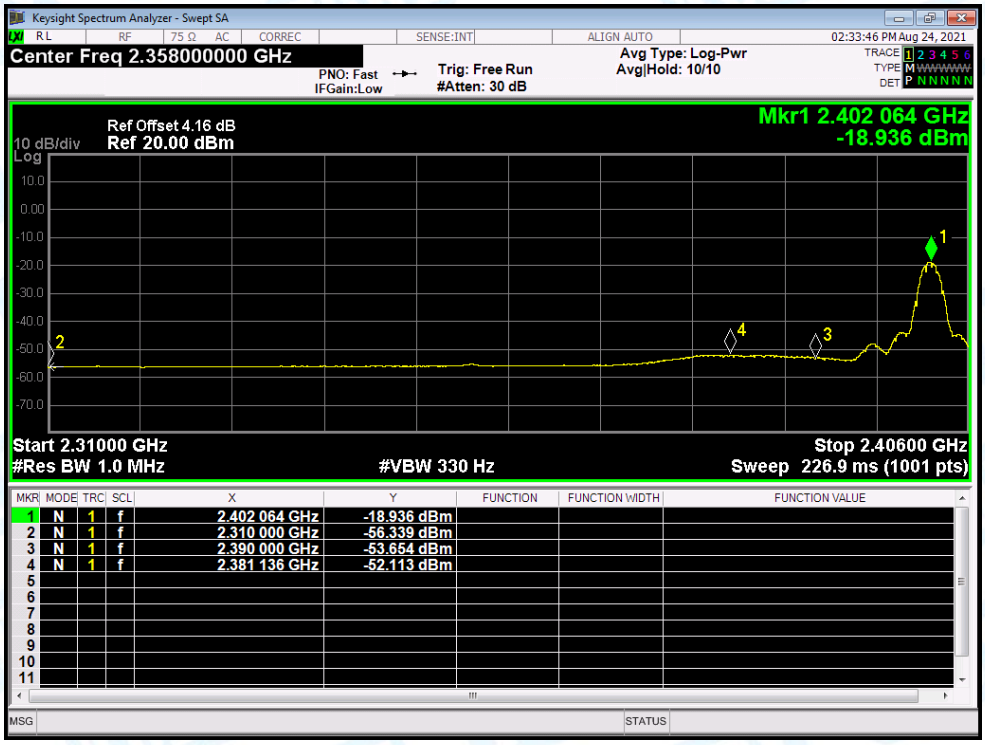
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



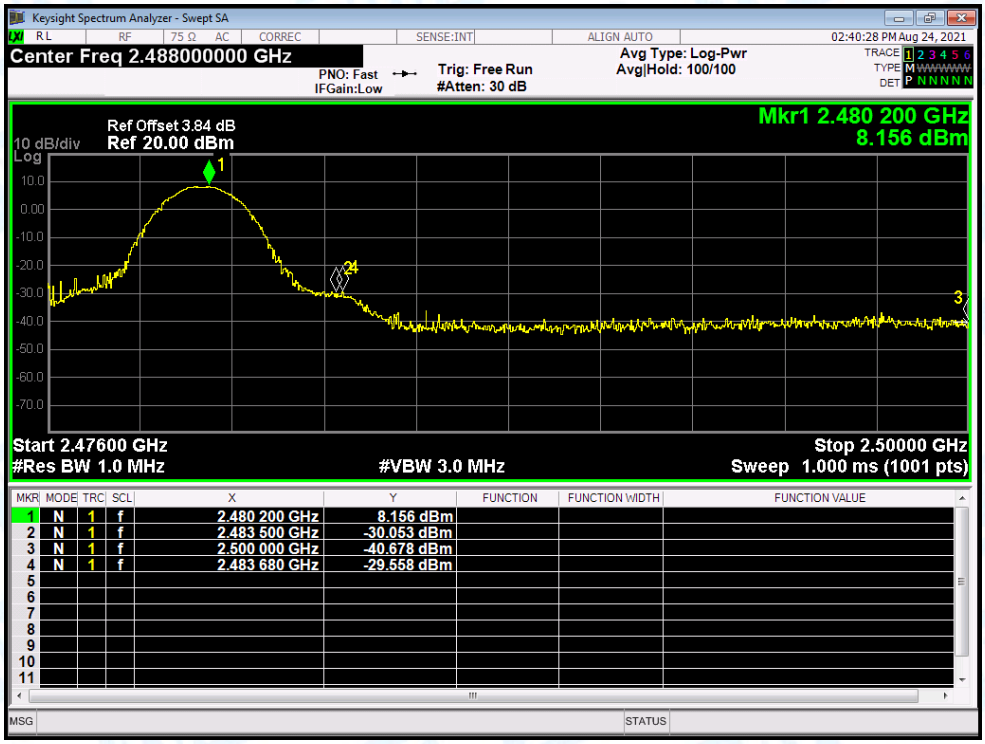
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



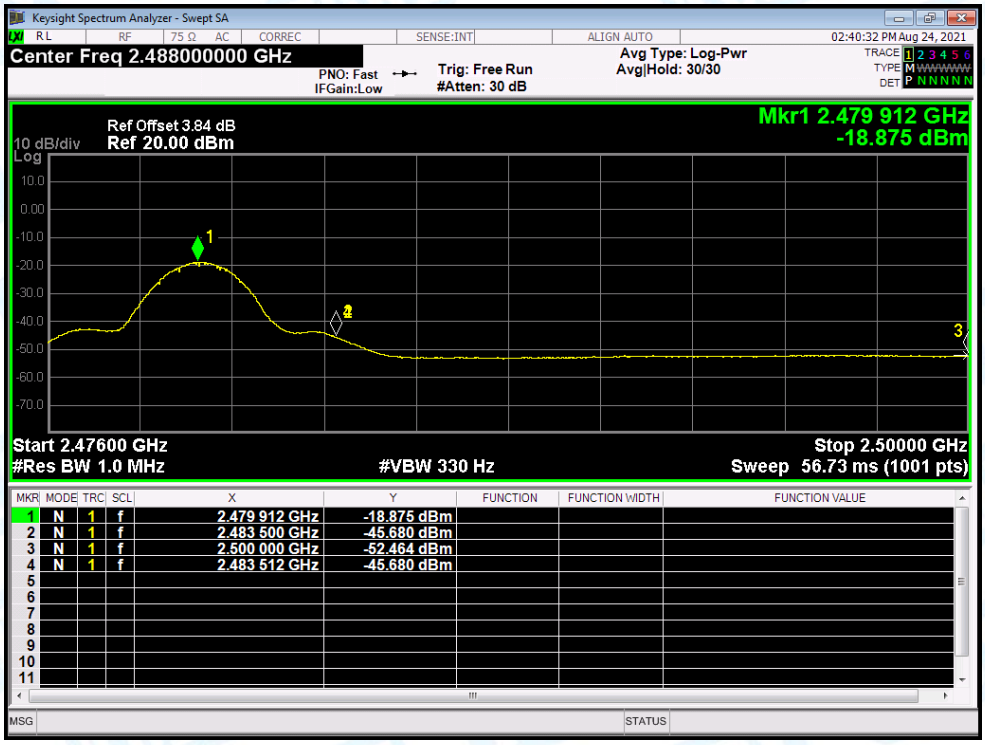
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



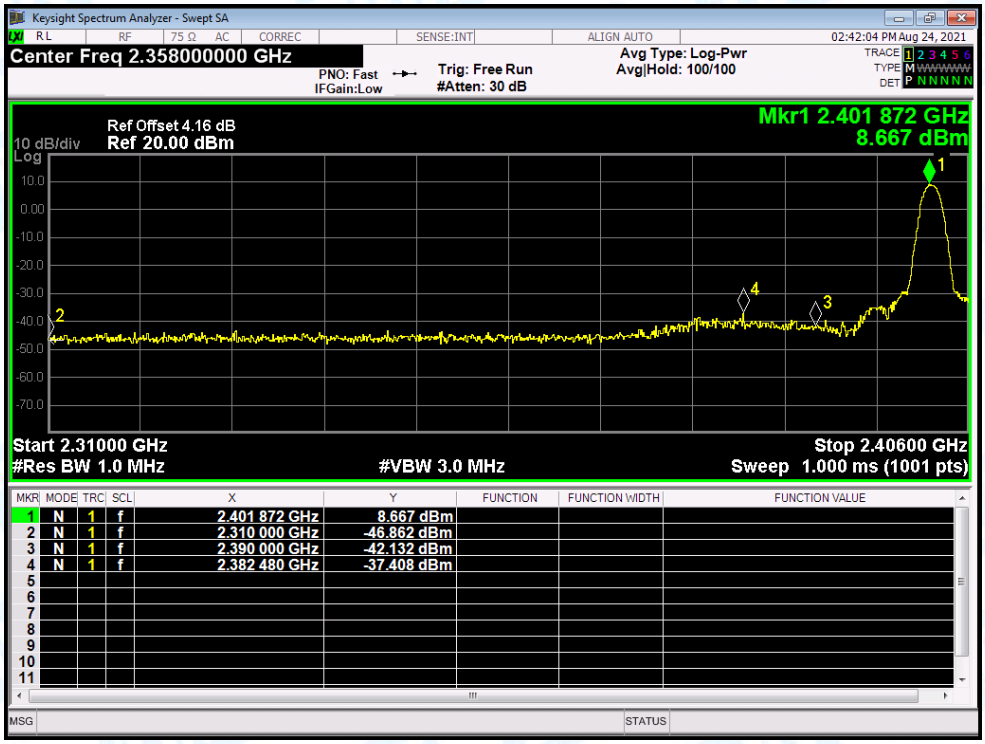
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



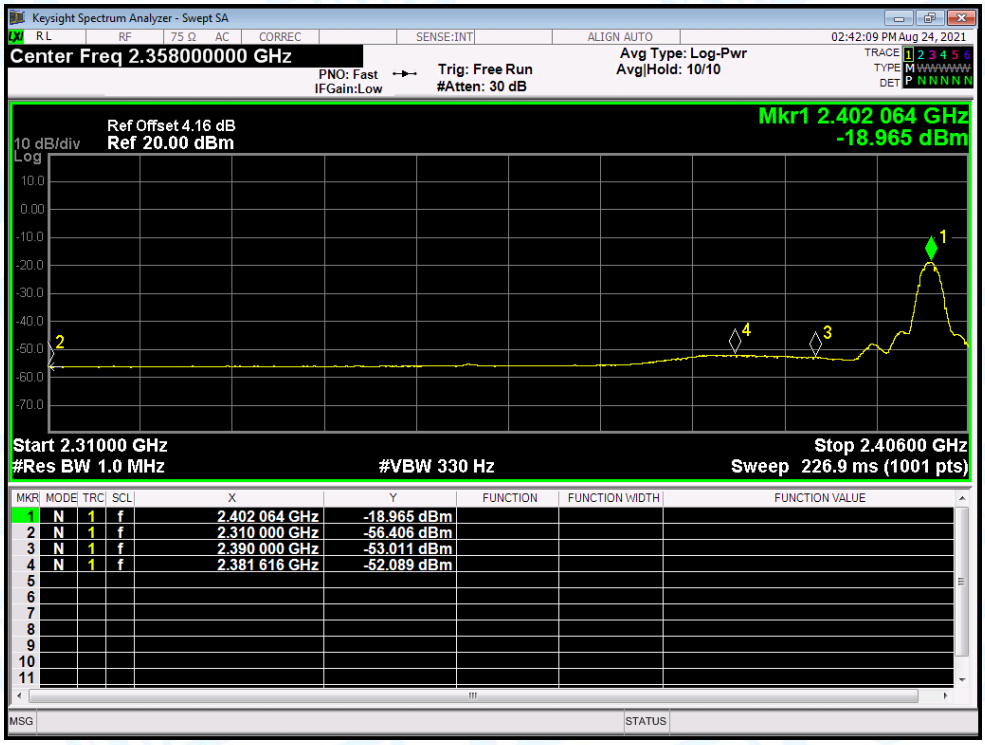
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



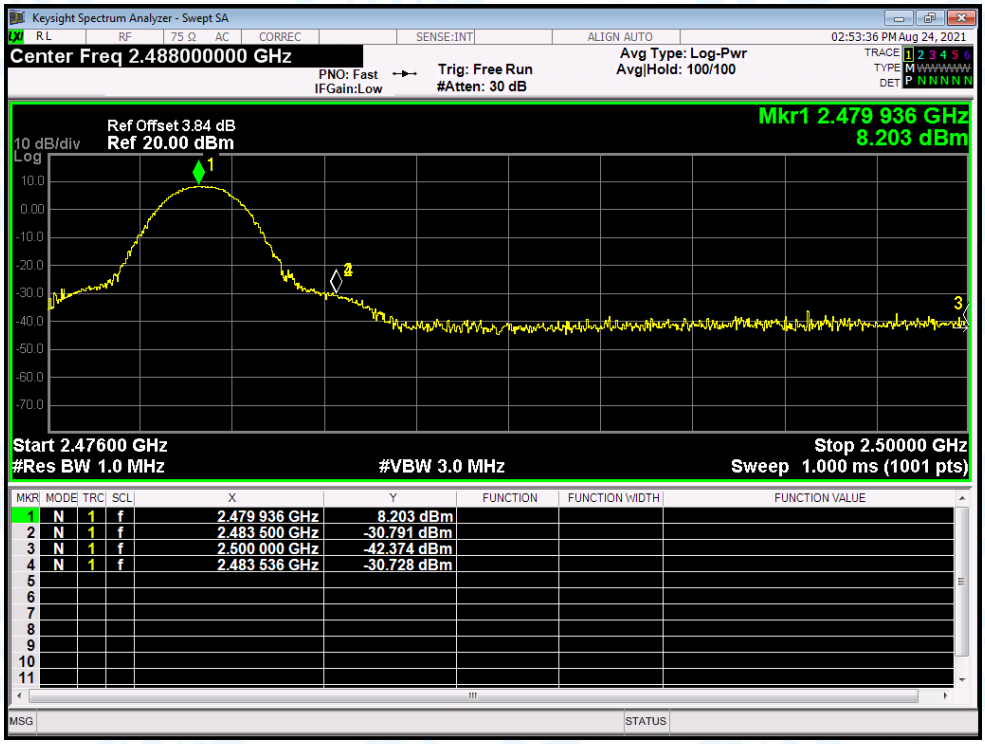
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



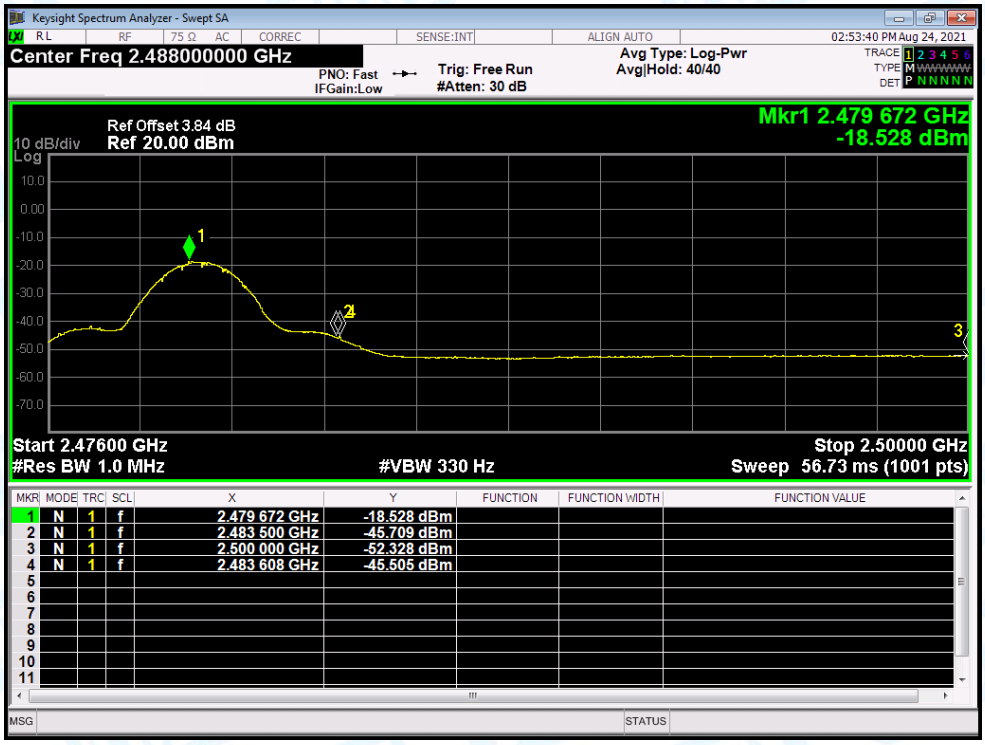
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Average



Restrict Band NVNT 3-DH1 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 3-DH1 2480MHz Ant1 No-Hopping Average

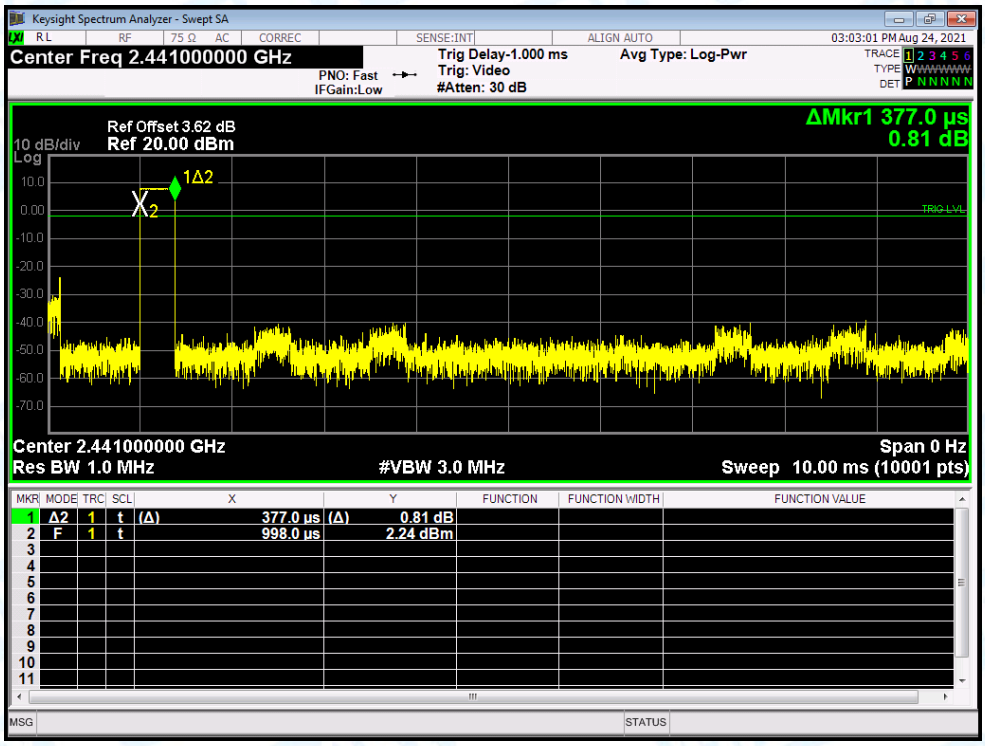


9.Dwell Time

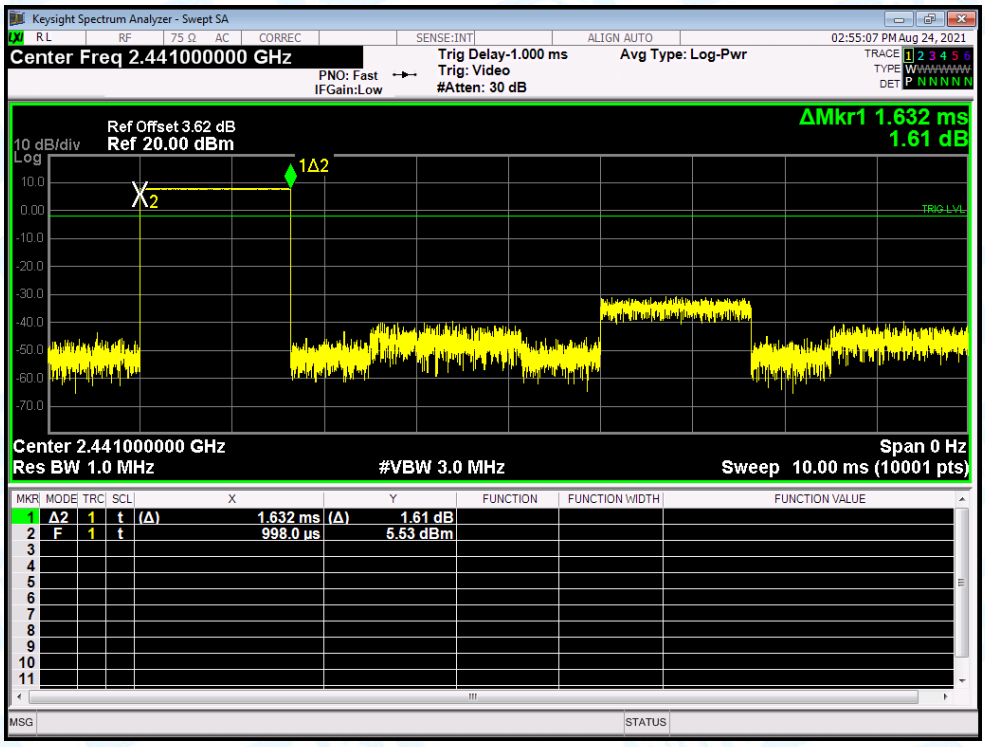
Condition	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	0.377	120.64	31600	400	Pass
NVNT	1-DH3	2441	1.632	261.12	31600	400	Pass
NVNT	1-DH5	2441	2.88	307.2	31600	400	Pass
NVNT	2-DH1	2441	0.376	120.32	31600	400	Pass
NVNT	2-DH3	2441	1.63	260.8	31600	400	Pass
NVNT	2-DH5	2441	2.886	307.84	31600	400	Pass
NVNT	3-DH1	2441	0.376	120.32	31600	400	Pass
NVNT	3-DH3	2441	1.637	261.92	31600	400	Pass
NVNT	3-DH5	2441	2.888	308.053	31600	400	Pass

Test Graphs

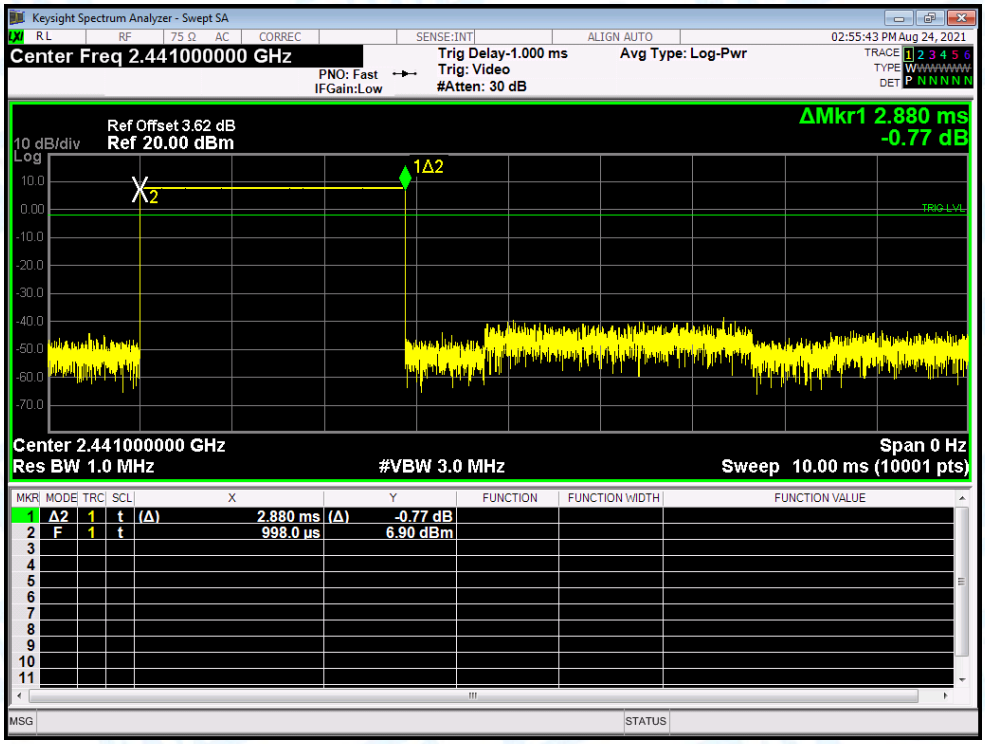
Dwell NVNT 1-DH1 2441MHz Ant1



Dwell NVNT 1-DH3 2441MHz Ant1



Dwell NVNT 1-DH5 2441MHz Ant1



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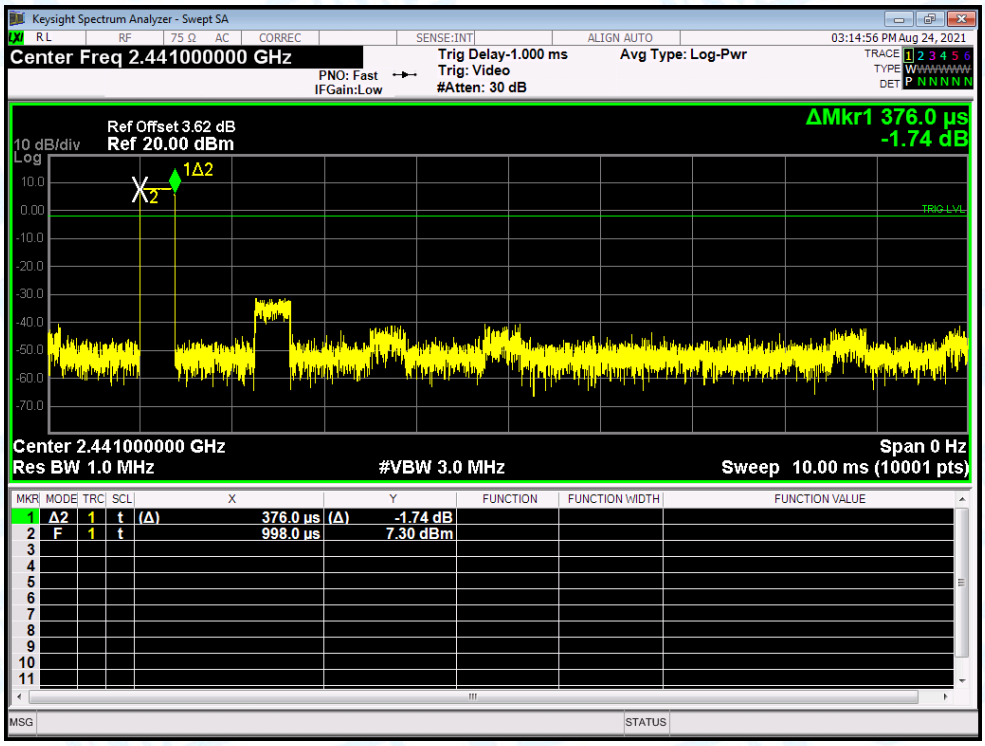
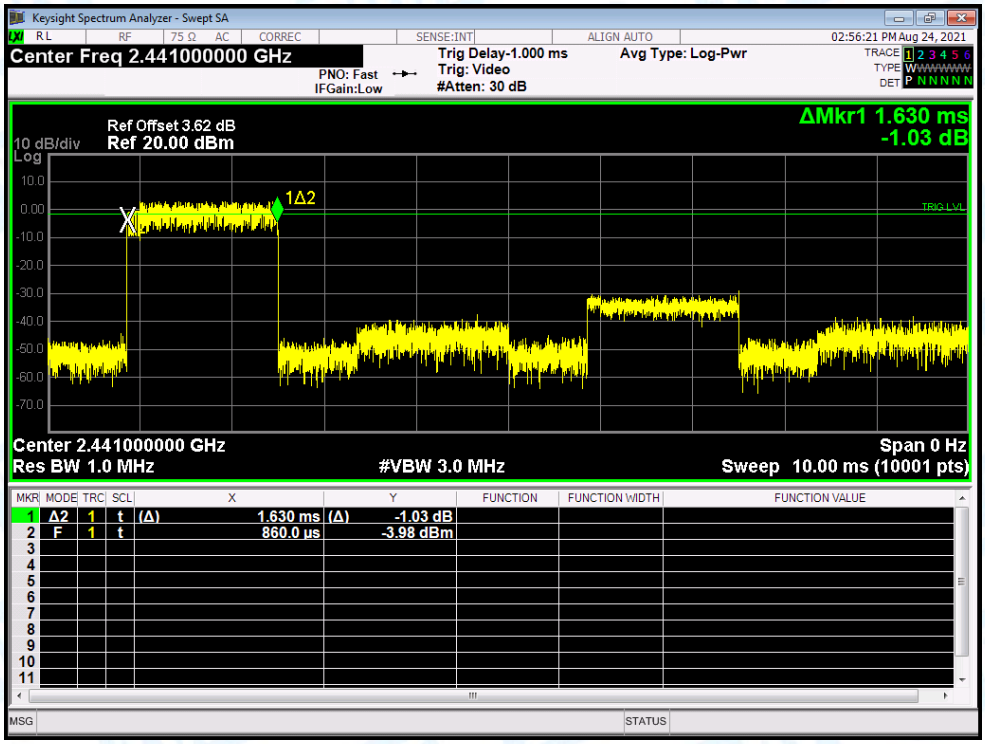
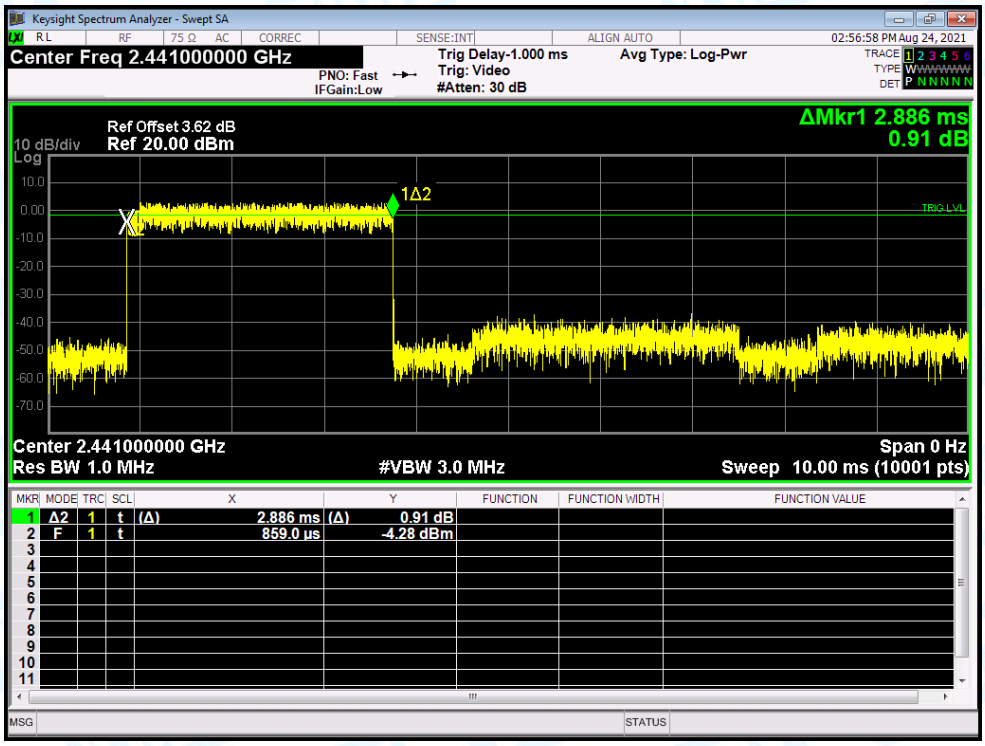


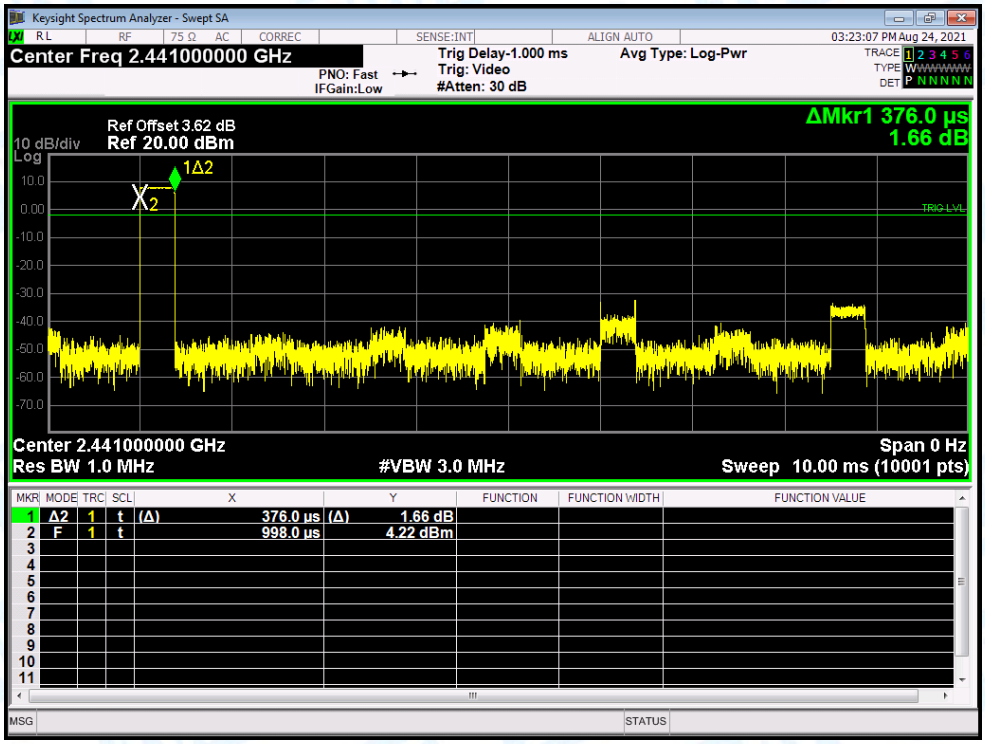
Dwell NVNT 2-DH3 2441MHz Ant1



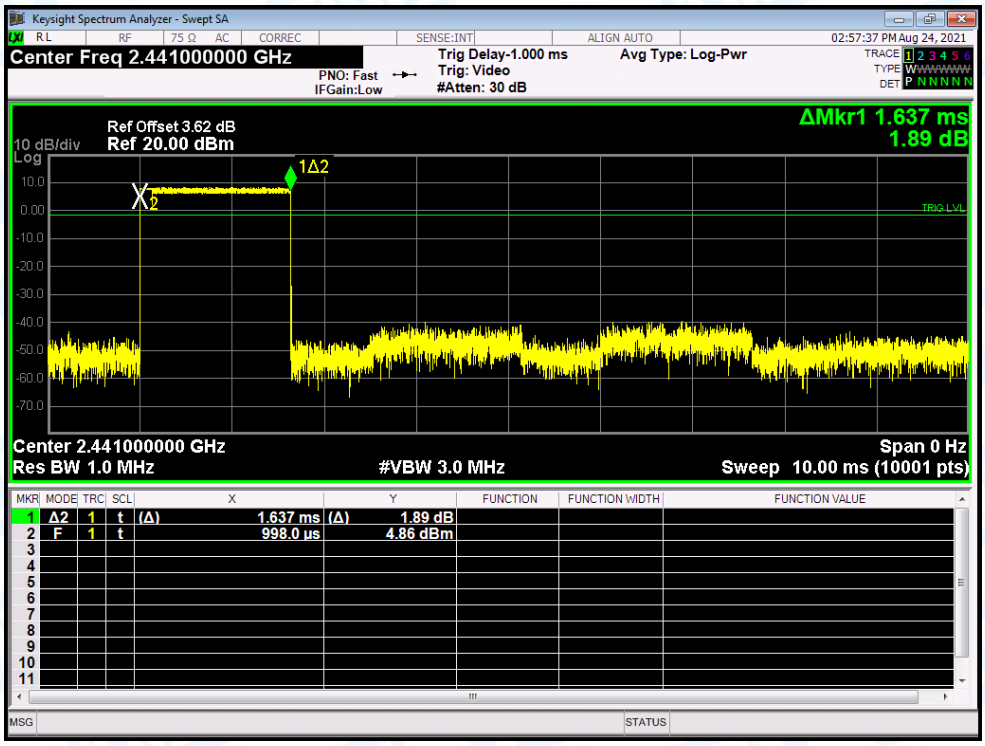
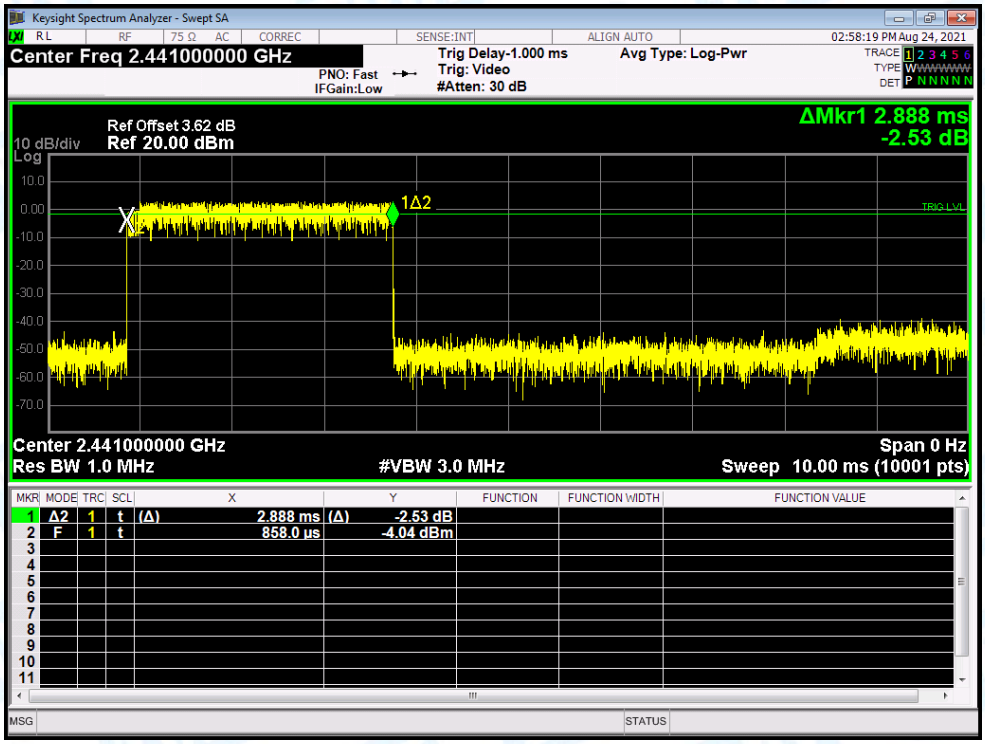
Dwell NVNT 2-DH5 2441MHz Ant1



Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1



Dwell NVNT 3-DH5 2441MHz Ant1