

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

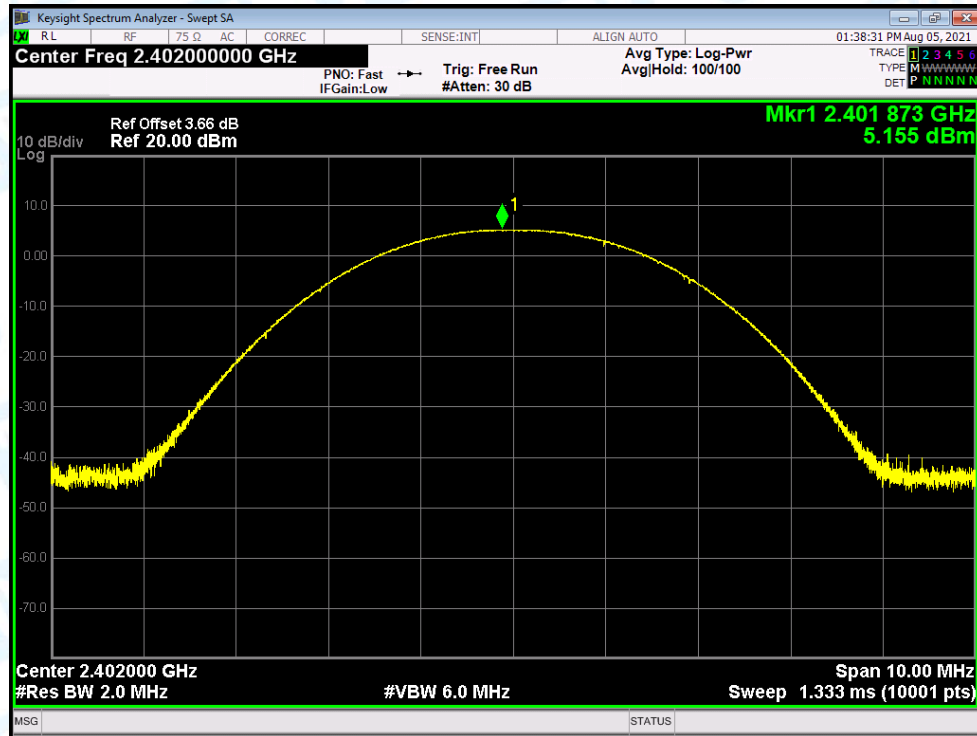
General Description of EUT	
Product Name:	OUTDOOR TV
Test Model:	OT55A0KAGC
Sample ID:	20210407-13-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 5V
Test Engineer:	HeJingchang
Note: For a more detailed features description, please refer to the report TB-FCC180171.	

1.Maximum Conducted Output Power

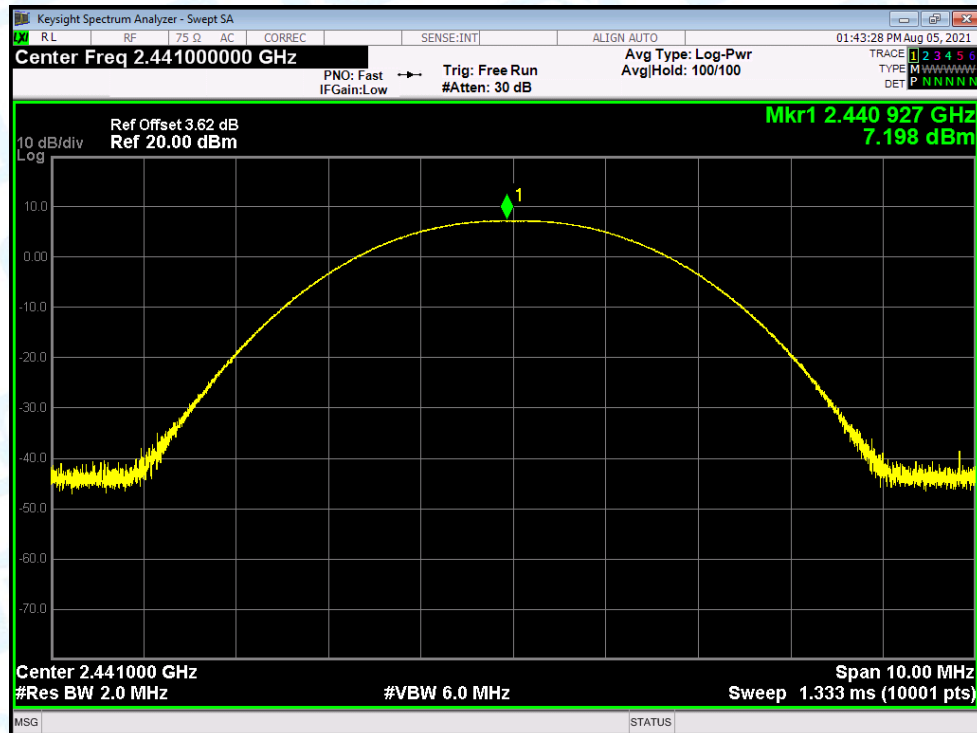
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	Ant1	5.155	30	Pass
NVNT	1-DH1	2441	Ant1	7.198	30	Pass
NVNT	1-DH1	2480	Ant1	7.624	30	Pass
NVNT	2-DH1	2402	Ant1	7.691	21	Pass
NVNT	2-DH1	2441	Ant1	9.658	21	Pass
NVNT	2-DH1	2480	Ant1	10.071	21	Pass
NVNT	3-DH1	2402	Ant1	8.029	21	Pass
NVNT	3-DH1	2441	Ant1	10.012	21	Pass
NVNT	3-DH1	2480	Ant1	10.371	21	Pass

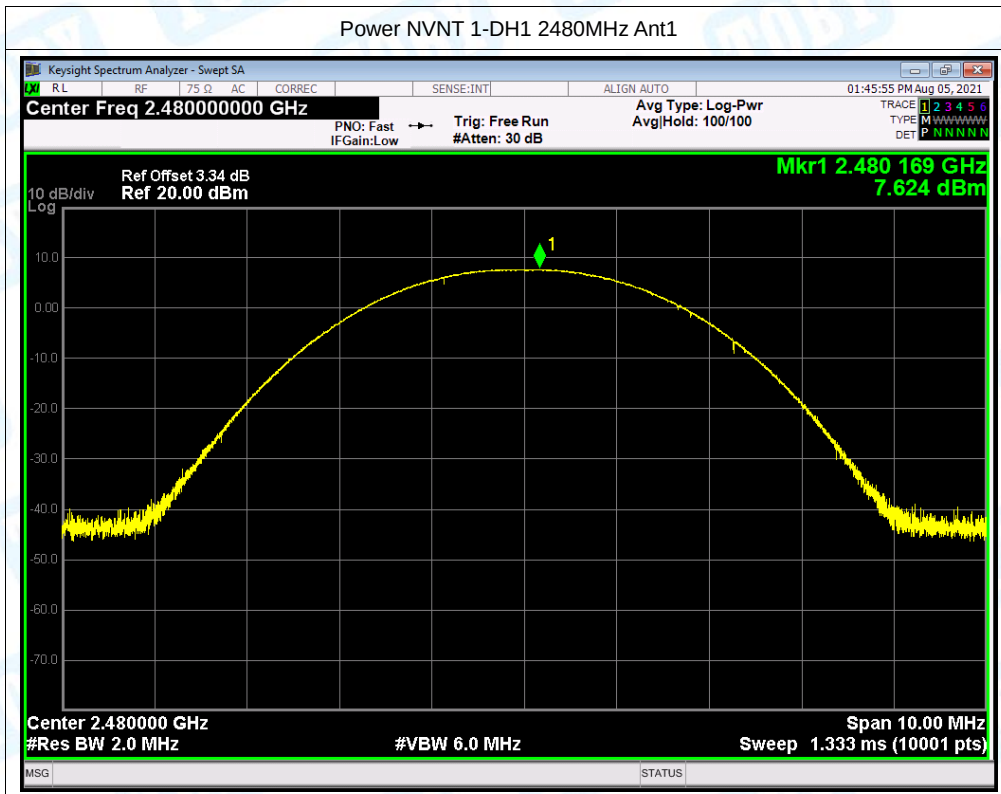
Test Graphs

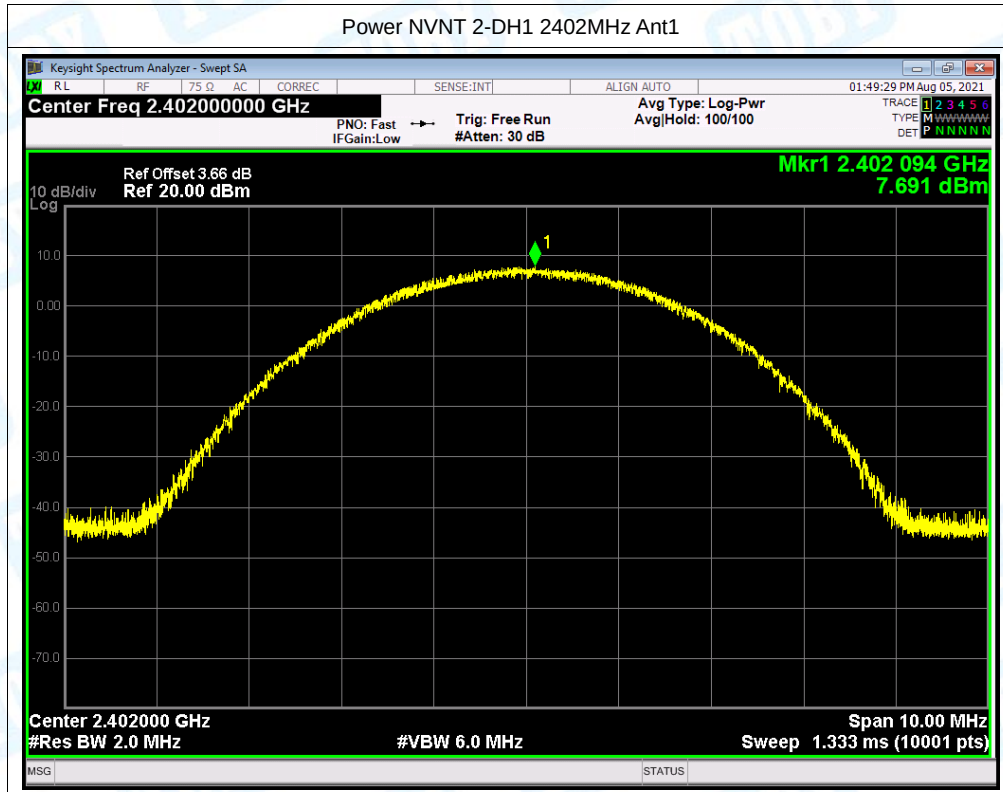
Power NVNT 1-DH1 2402MHz Ant1



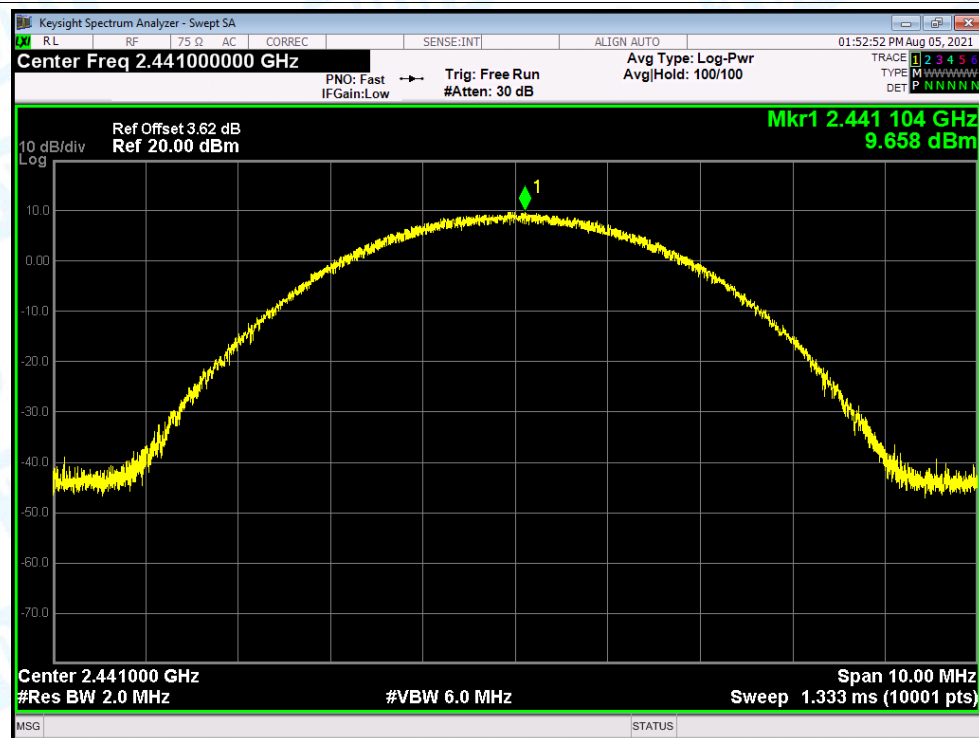
Power NVNT 1-DH1 2441MHz Ant1



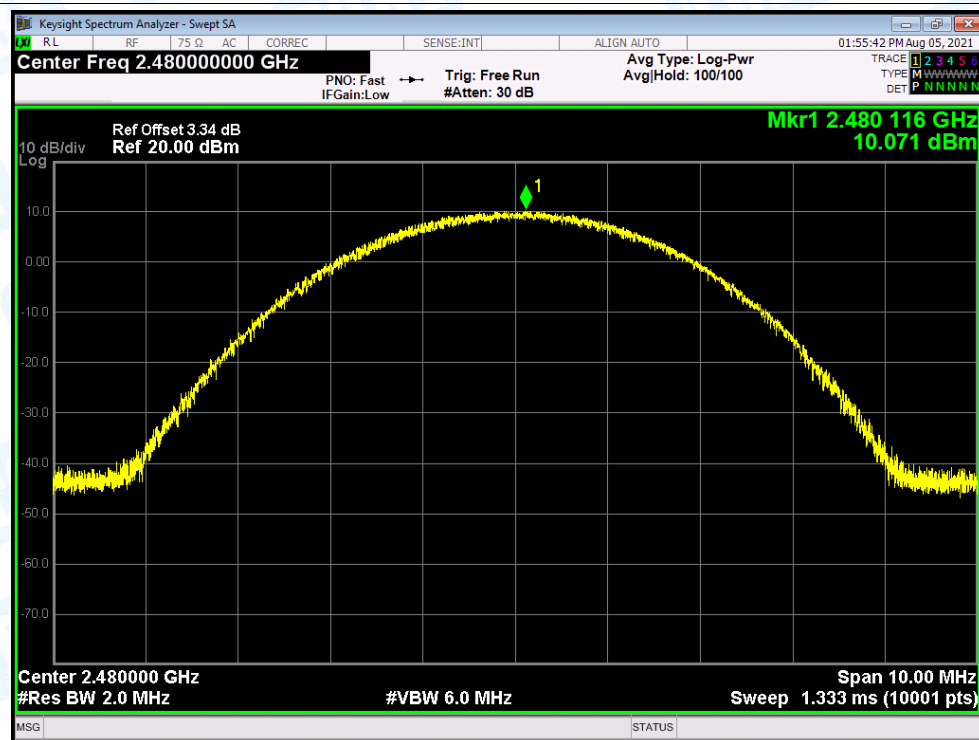




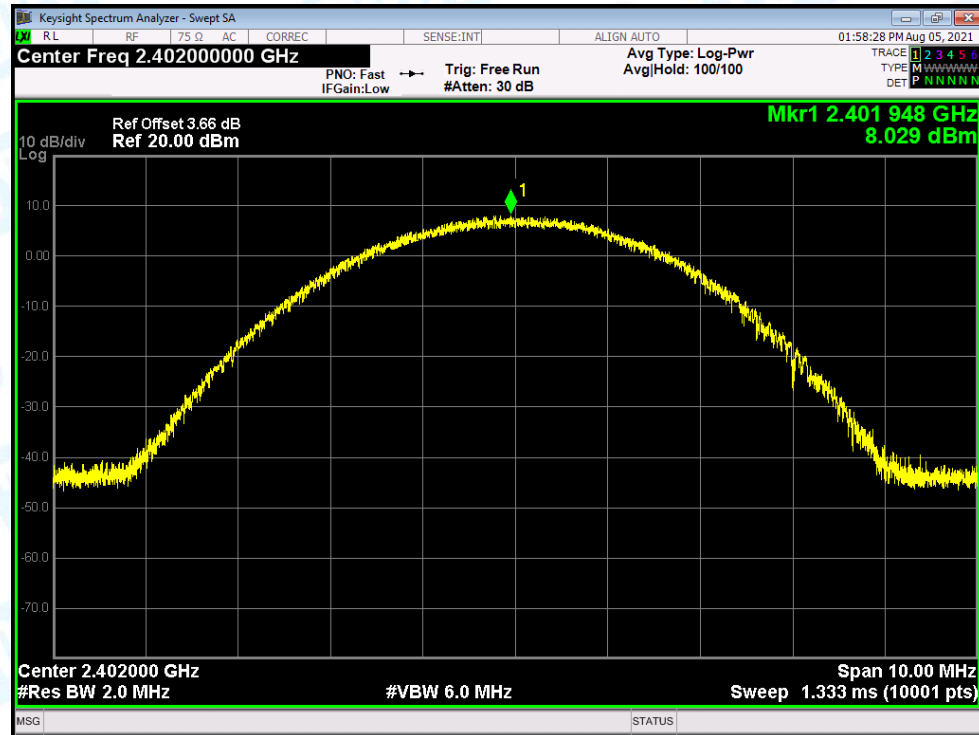
Power NVNT 2-DH1 2441MHz Ant1



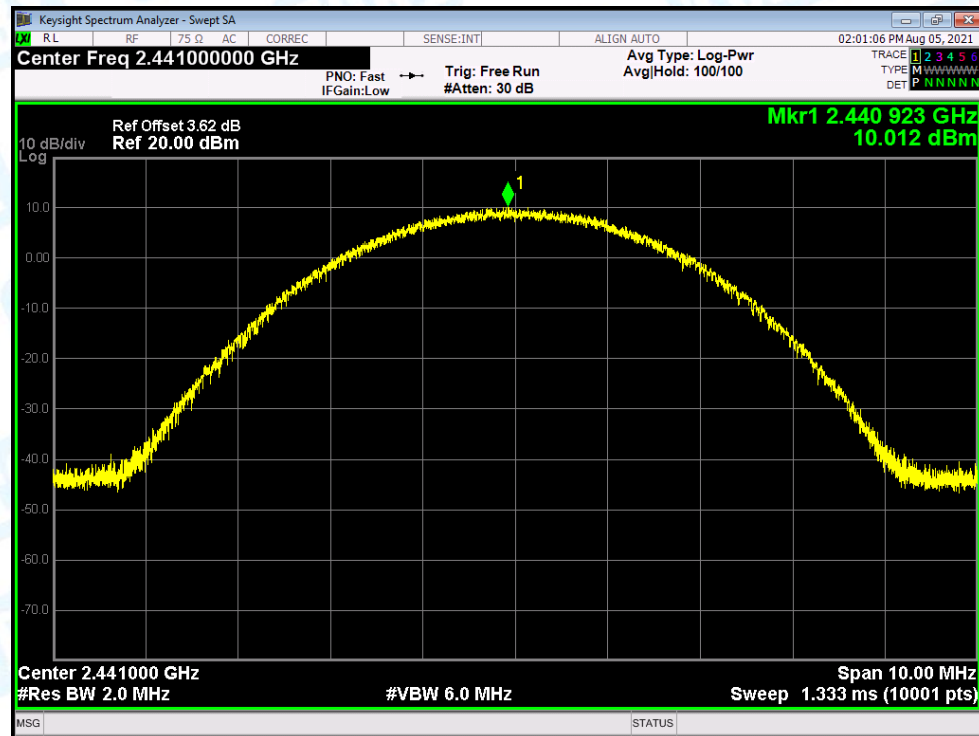
Power NVNT 2-DH1 2480MHz Ant1

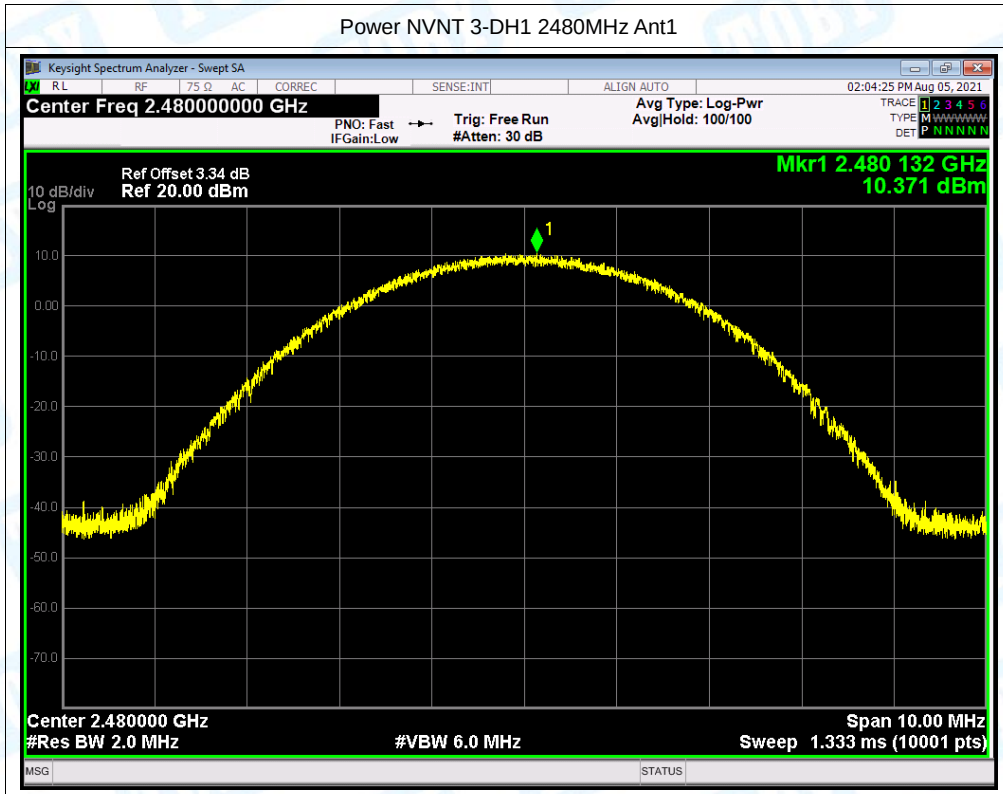


Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1



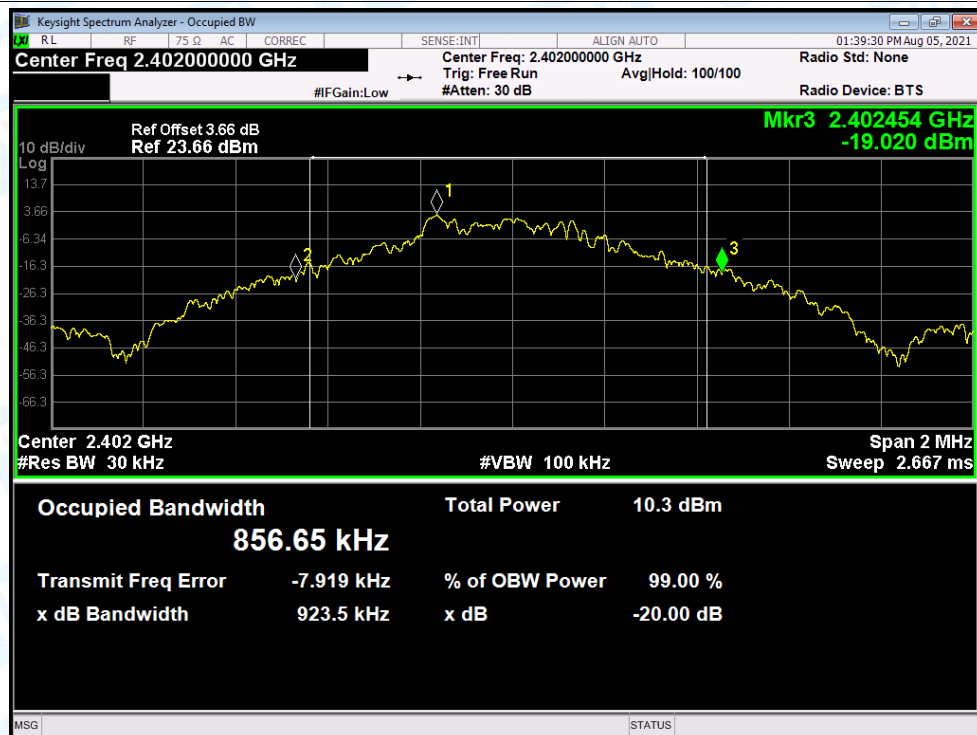


2.-20dB Bandwidth

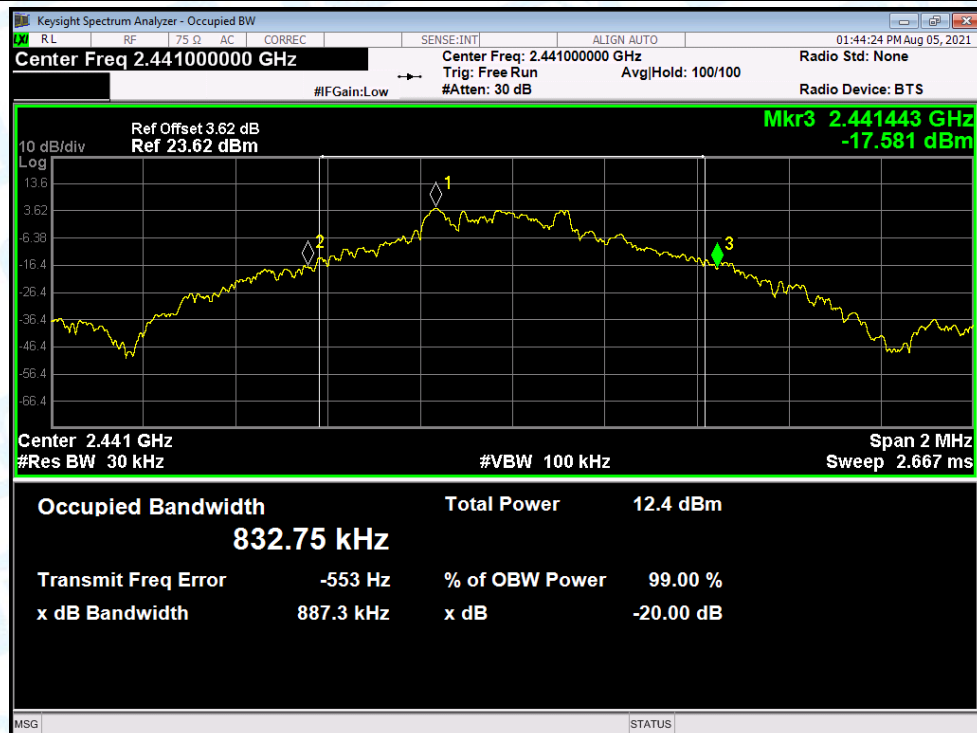
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	20dB Bandwidth *2/3 (MHz)	Verdict
NVNT	1-DH1	2402	Ant1	0.924	0.616	Pass
NVNT	1-DH1	2441	Ant1	0.887	0.591	Pass
NVNT	1-DH1	2480	Ant1	0.853	0.569	Pass
NVNT	2-DH1	2402	Ant1	1.299	0.866	Pass
NVNT	2-DH1	2441	Ant1	1.293	0.862	Pass
NVNT	2-DH1	2480	Ant1	1.267	0.845	Pass
NVNT	3-DH1	2402	Ant1	1.271	0.847	Pass
NVNT	3-DH1	2441	Ant1	1.261	0.841	Pass
NVNT	3-DH1	2480	Ant1	1.249	0.833	Pass

Test Graphs

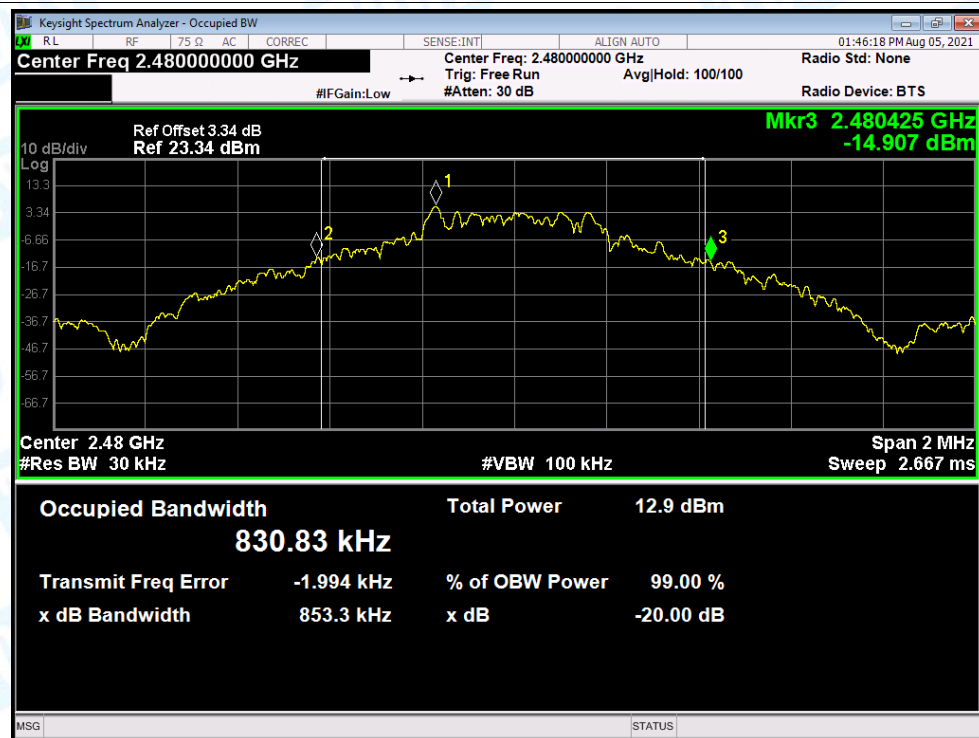
-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



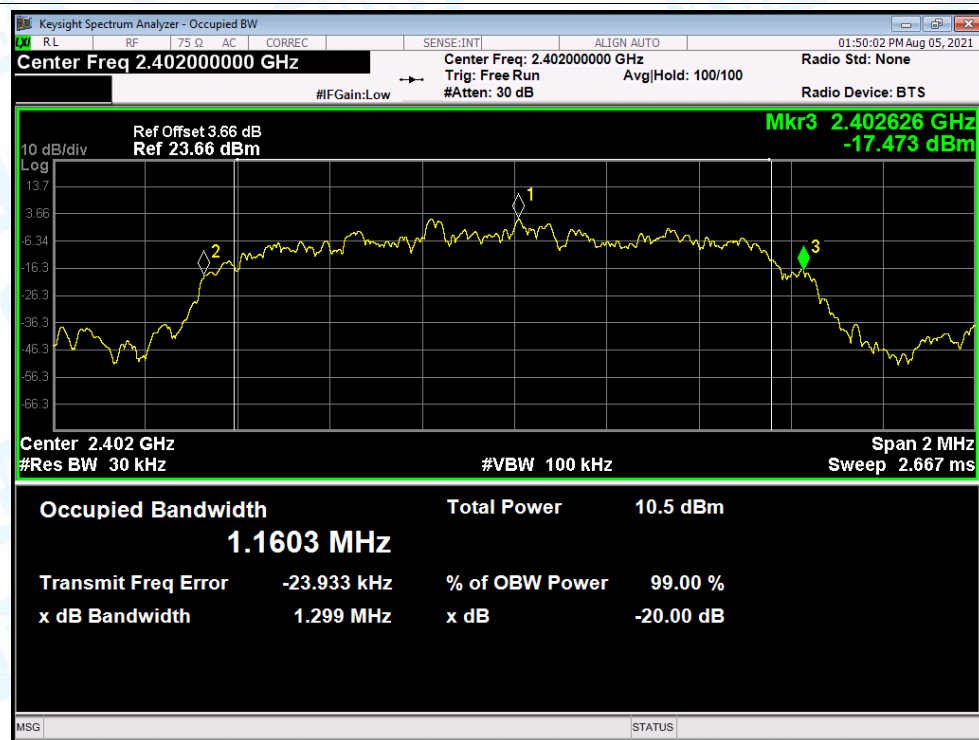
-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



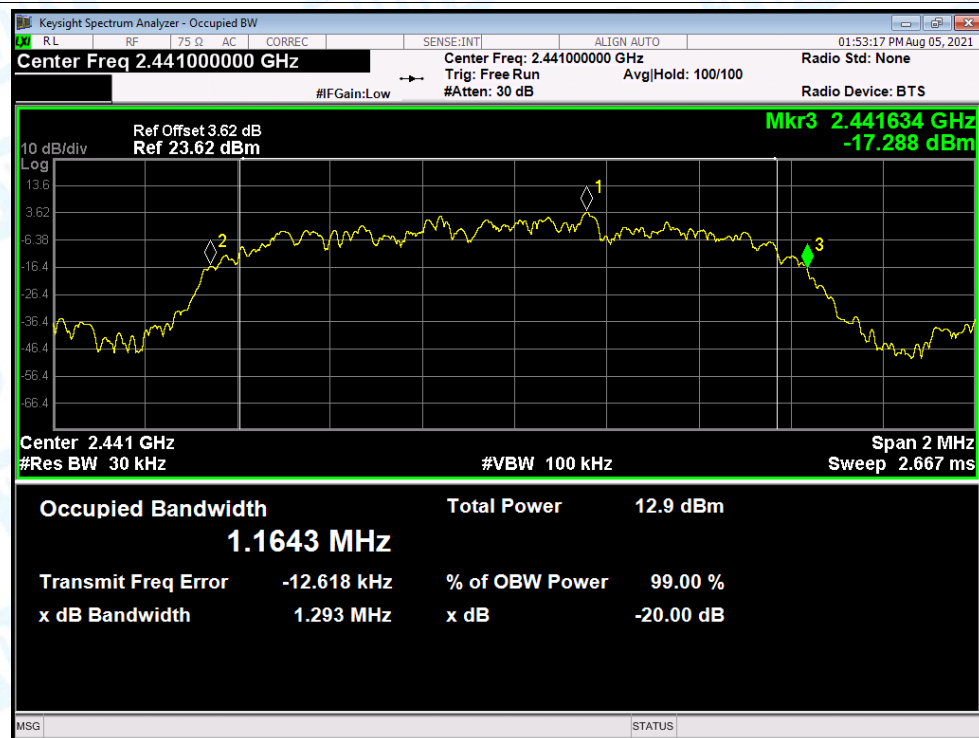
-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



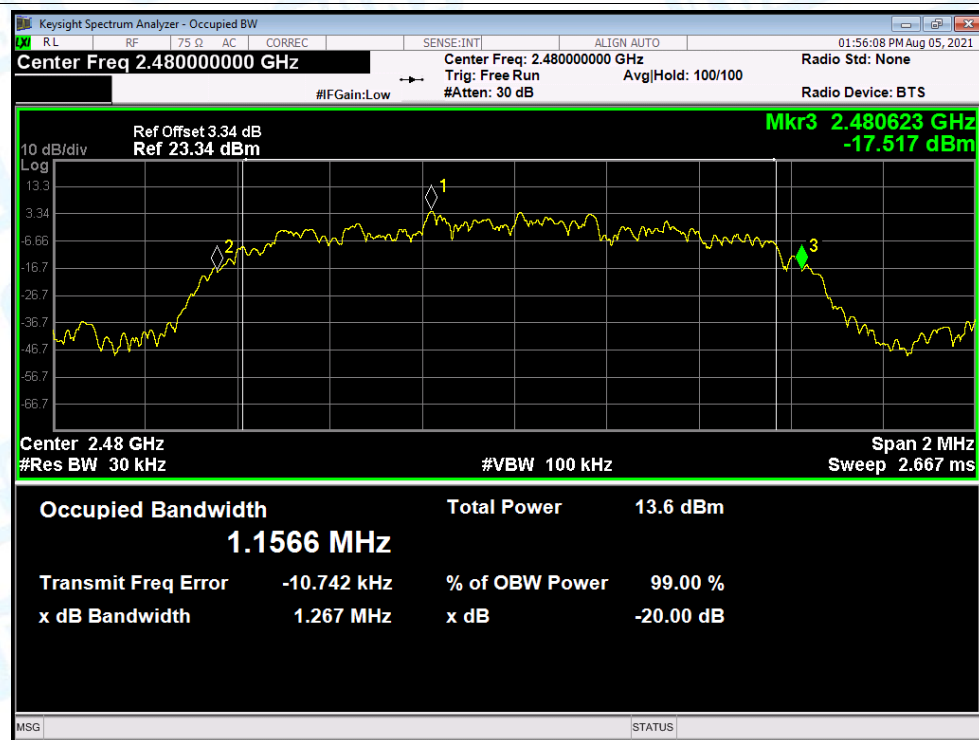
-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1



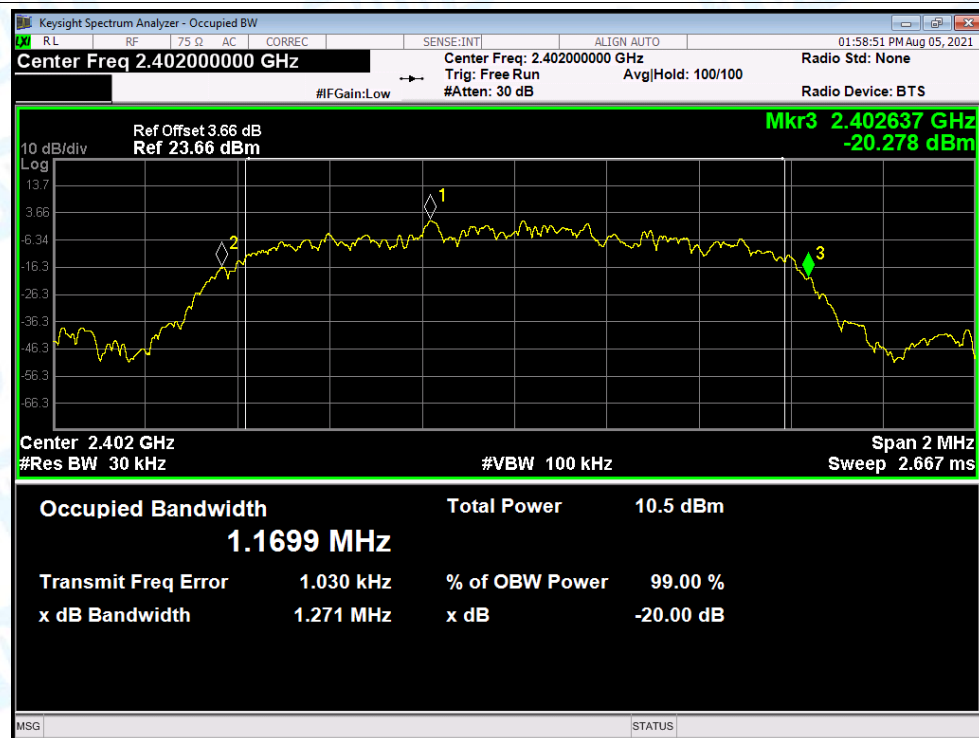
-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



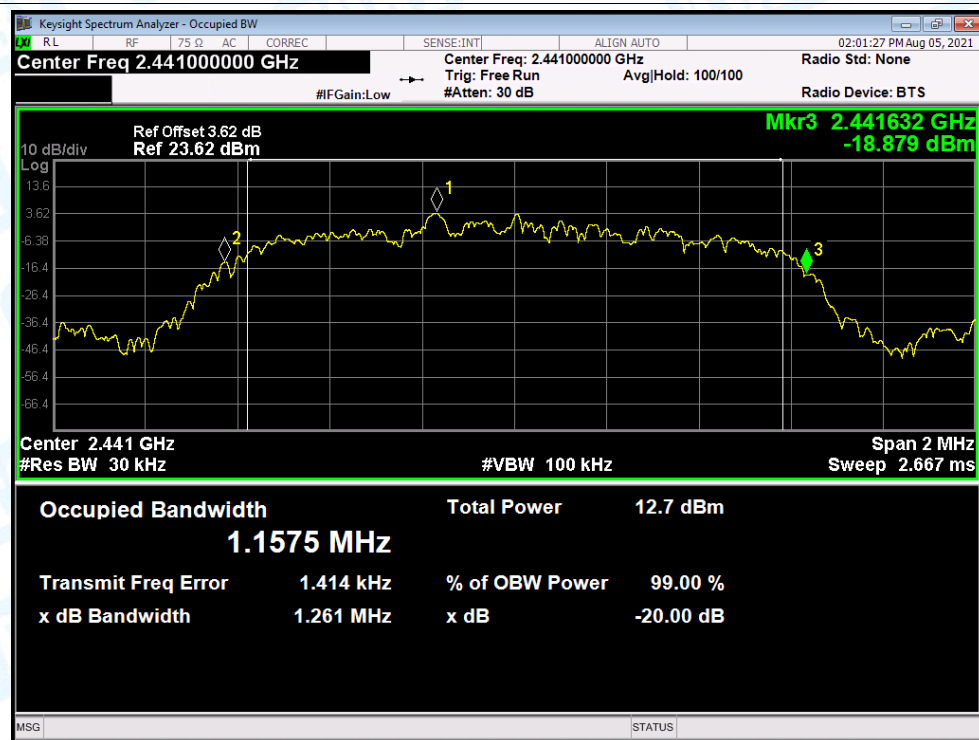
-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1

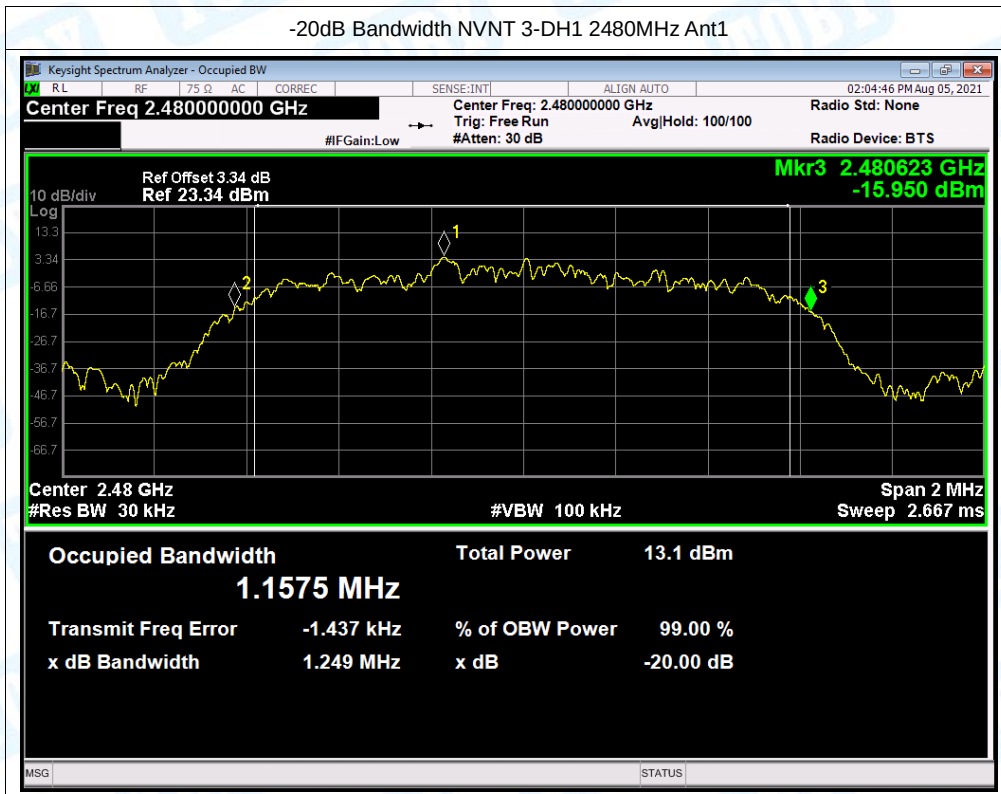


-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1



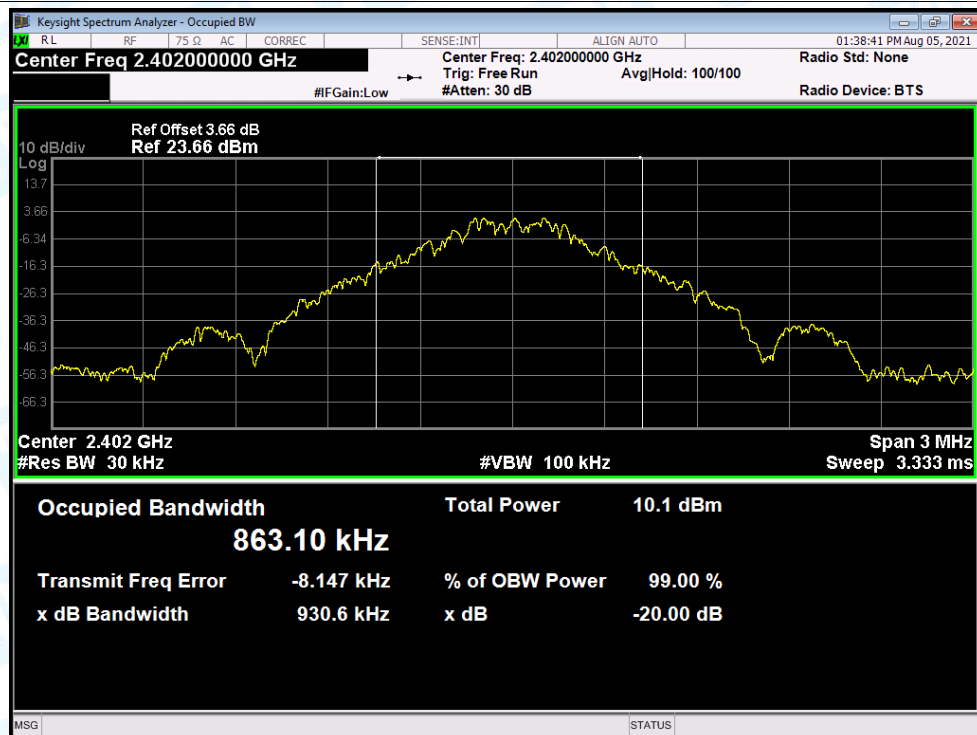


3.Occupied Channel Bandwidth

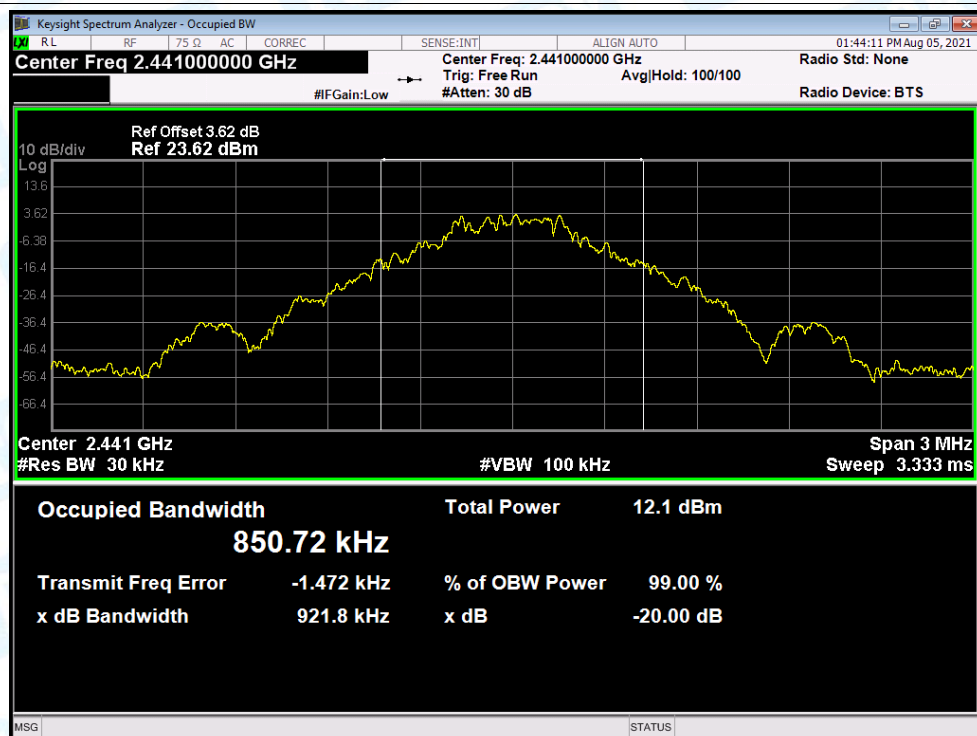
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (kHz)
NVNT	1-DH1	2402	Ant1	863.103
NVNT	1-DH1	2441	Ant1	850.720
NVNT	1-DH1	2480	Ant1	852.904
NVNT	2-DH1	2402	Ant1	1170.557
NVNT	2-DH1	2441	Ant1	1153.644
NVNT	2-DH1	2480	Ant1	1169.535
NVNT	3-DH1	2402	Ant1	1163.597
NVNT	3-DH1	2441	Ant1	1165.279
NVNT	3-DH1	2480	Ant1	1168.517

Test Graphs

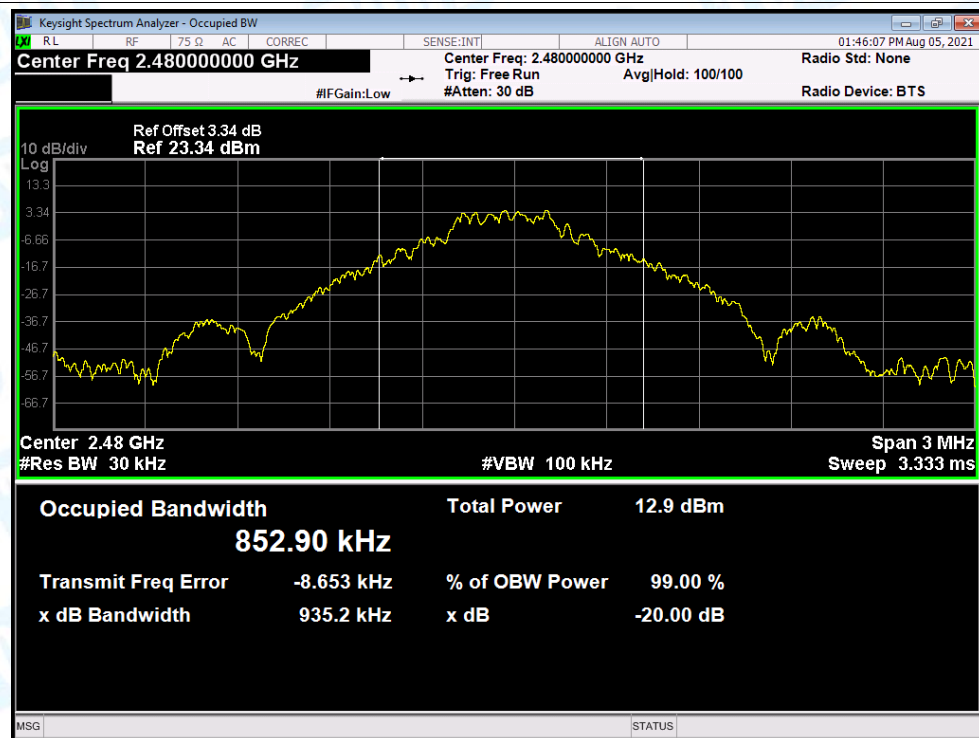
OBW NVNT 1-DH1 2402MHz Ant1



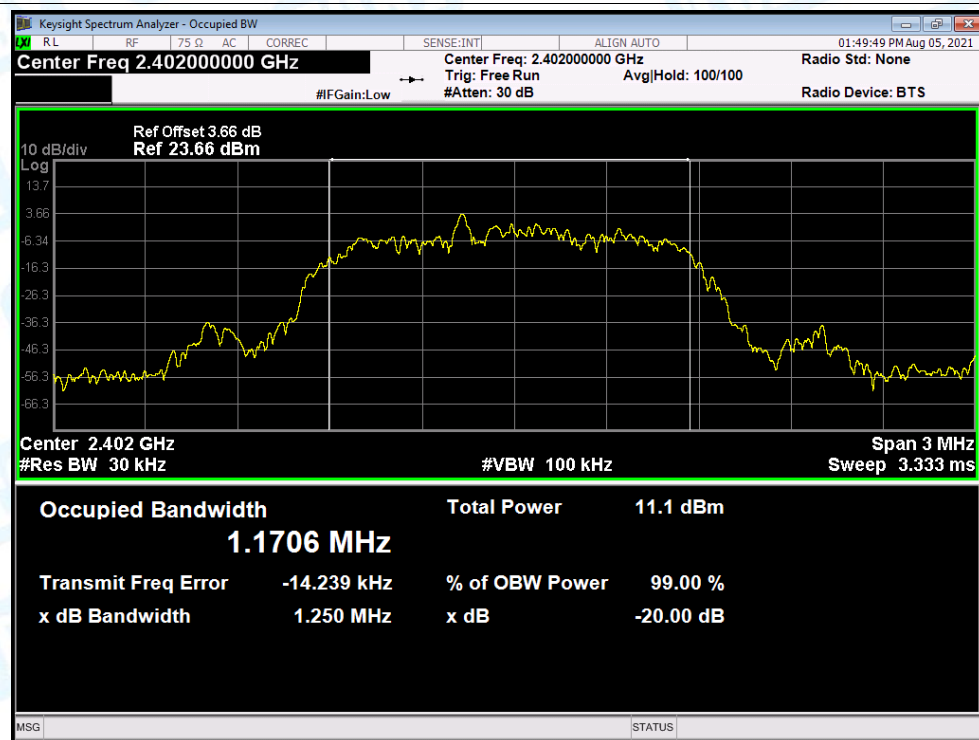
OBW NVNT 1-DH1 2441MHz Ant1



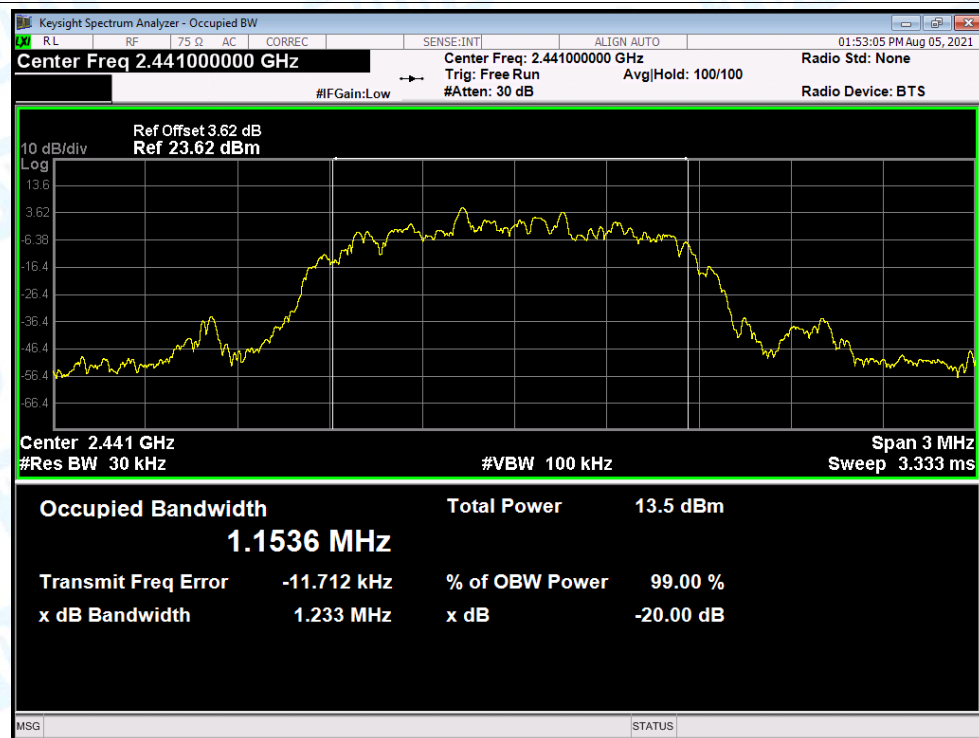
OBW NVNT 1-DH1 2480MHz Ant1



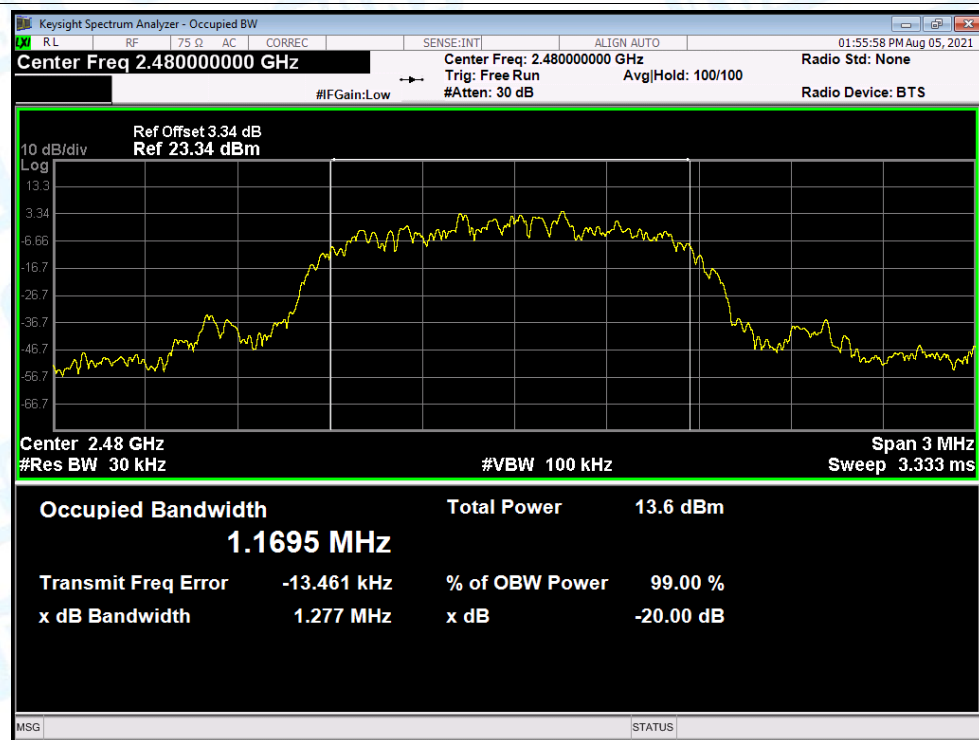
OBW NVNT 2-DH1 2402MHz Ant1



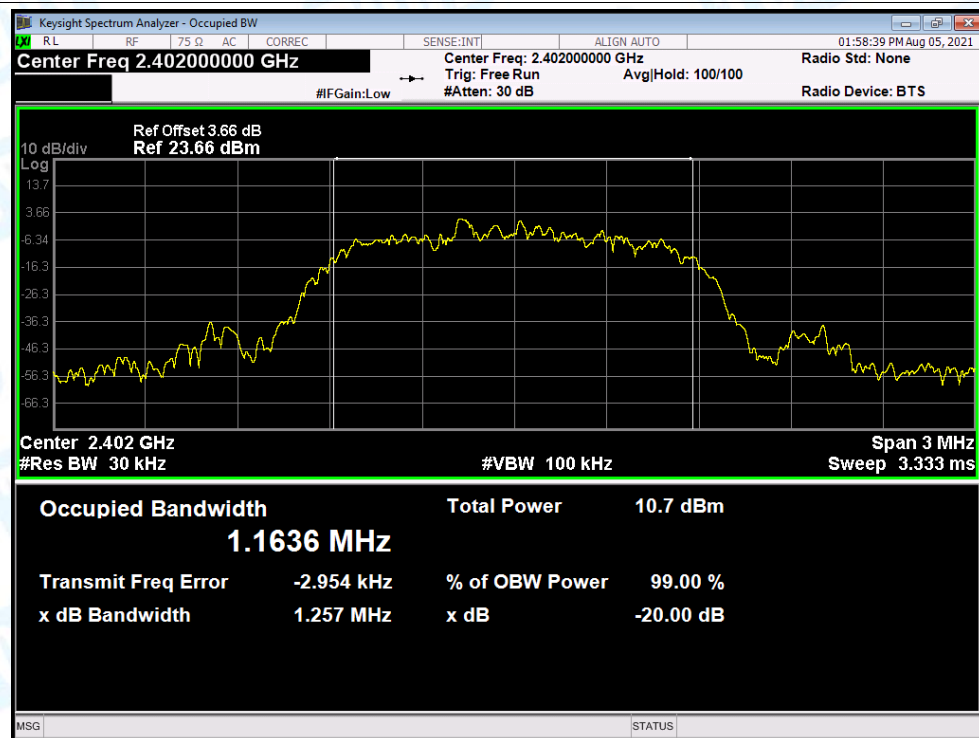
OBW NVNT 2-DH1 2441MHz Ant1



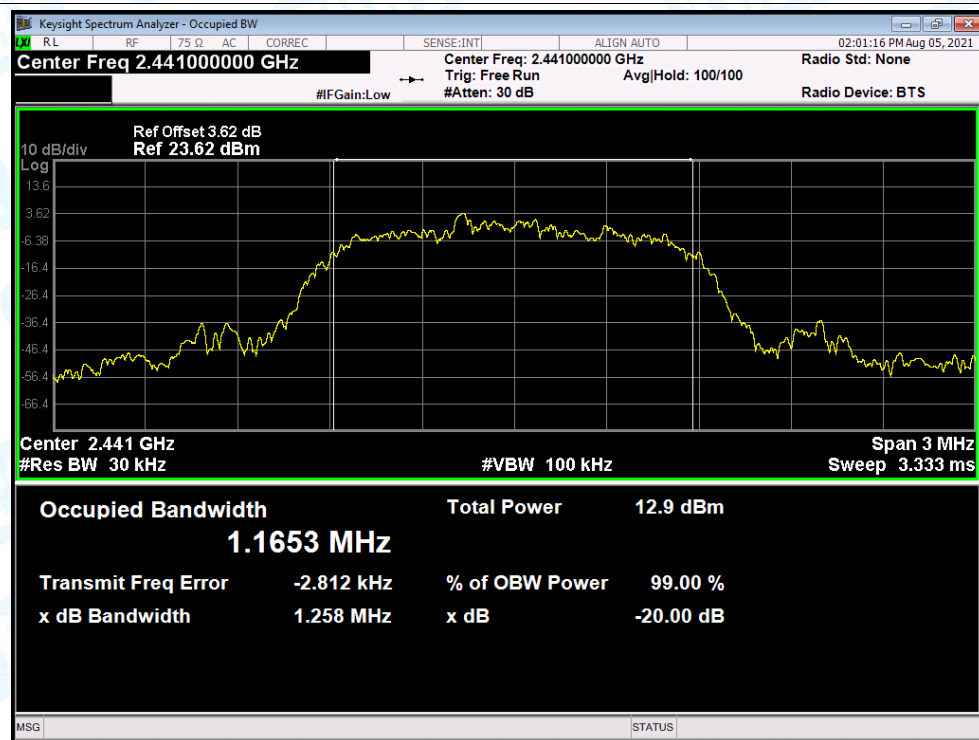
OBW NVNT 2-DH1 2480MHz Ant1

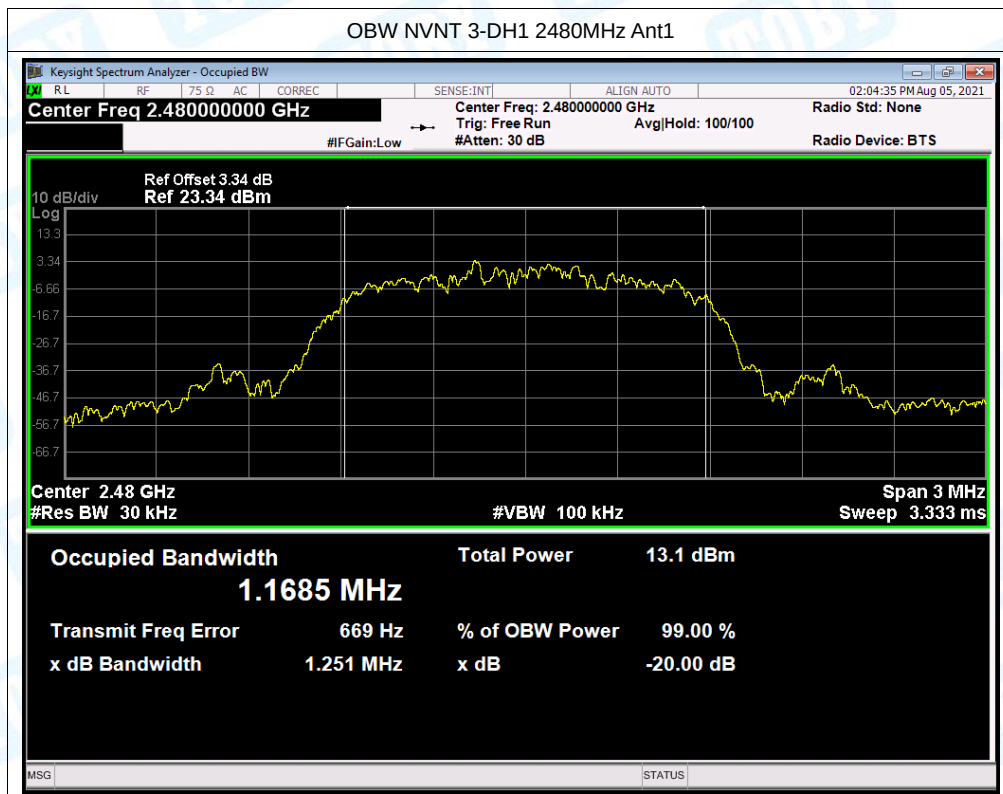


OBW NVNT 3-DH1 2402MHz Ant1



OBW NVNT 3-DH1 2441MHz Ant1



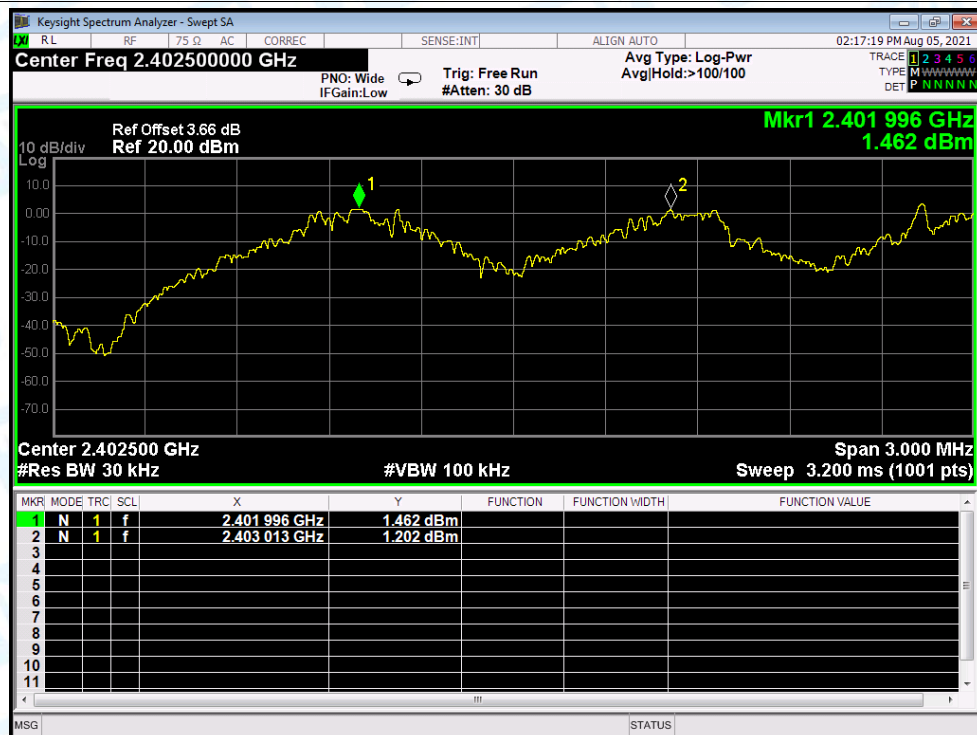


4.Carrier Frequencies Separation

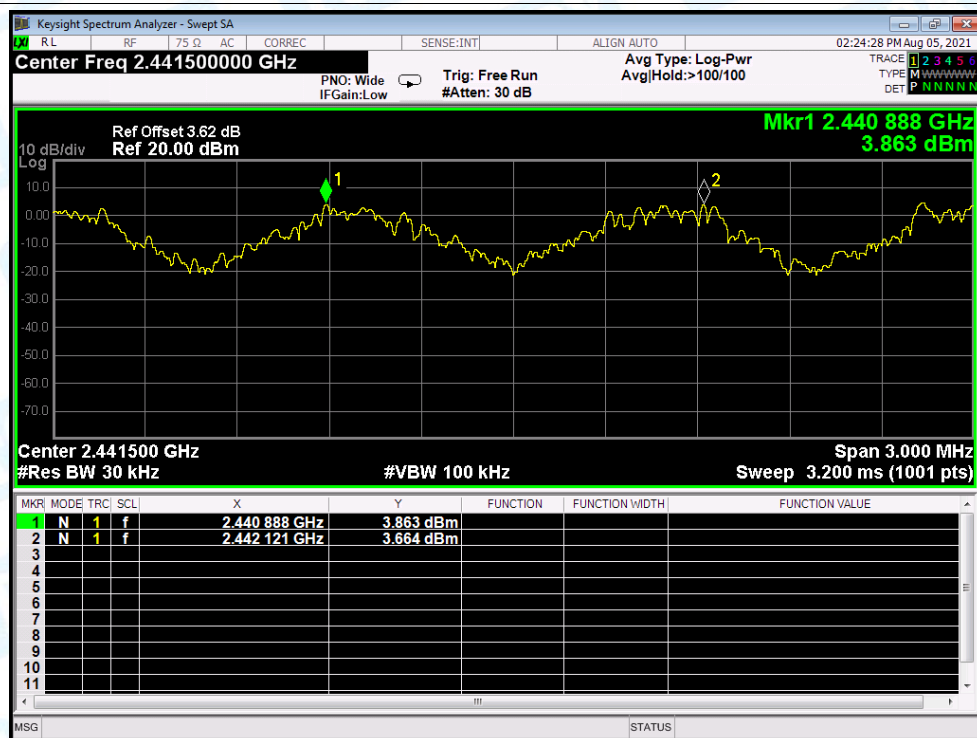
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2401.996	2403.013	1.017	0.616	Pass
NVNT	1-DH1	Ant1	2440.888	2442.121	1.233	0.591	Pass
NVNT	1-DH1	Ant1	2478.885	2479.971	1.086	0.569	Pass
NVNT	2-DH1	Ant1	2401.828	2402.824	0.996	0.866	Pass
NVNT	2-DH1	Ant1	2441.011	2442.109	1.098	0.862	Pass
NVNT	2-DH1	Ant1	2479.002	2480.01	1.008	0.845	Pass
NVNT	3-DH1	Ant1	2401.969	2402.983	1.014	0.847	Pass
NVNT	3-DH1	Ant1	2440.828	2441.965	1.137	0.841	Pass
NVNT	3-DH1	Ant1	2478.87	2479.89	1.02	0.833	Pass

Test Graphs

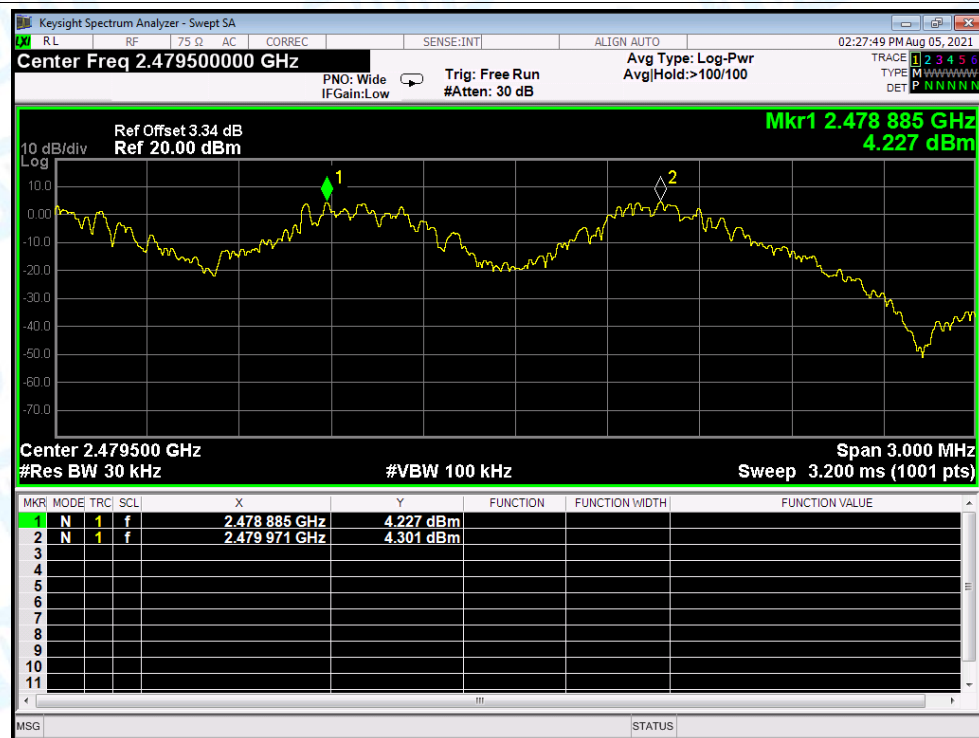
CFS NVNT 1-DH1 2402MHz Ant1



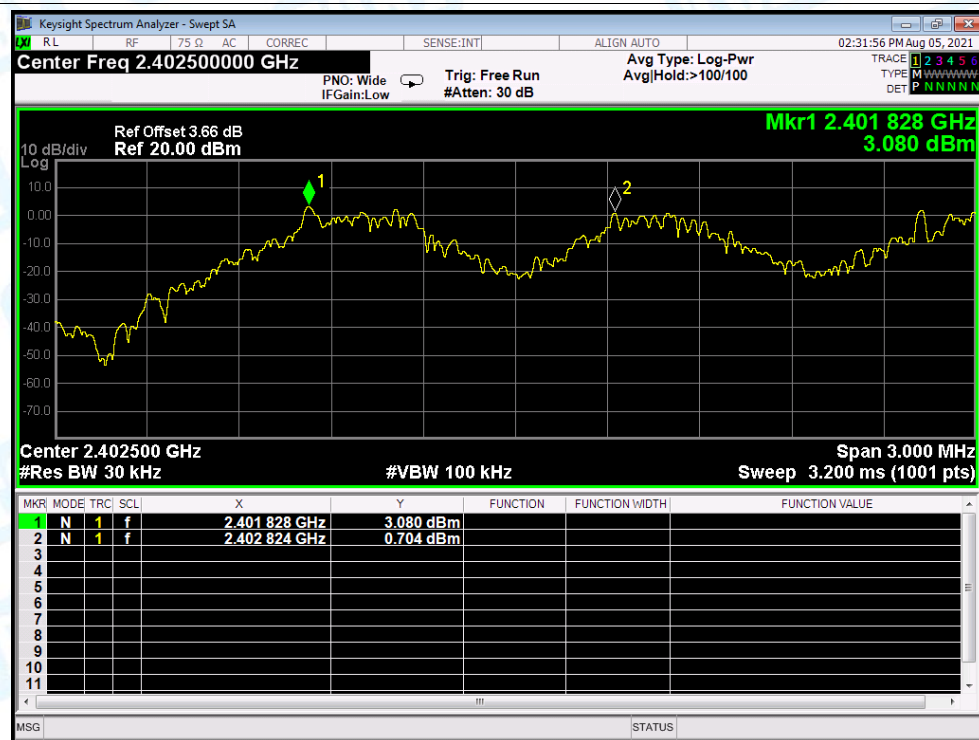
CFS NVNT 1-DH1 2441MHz Ant1



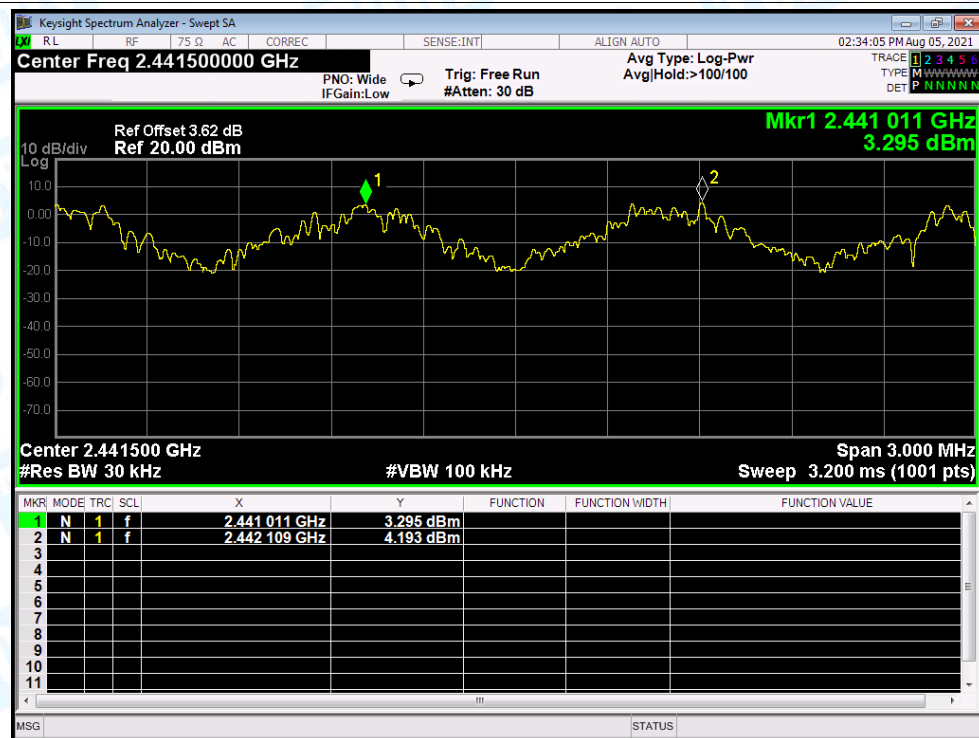
CFS NVNT 1-DH1 2480MHz Ant1



CFS NVNT 2-DH1 2402MHz Ant1



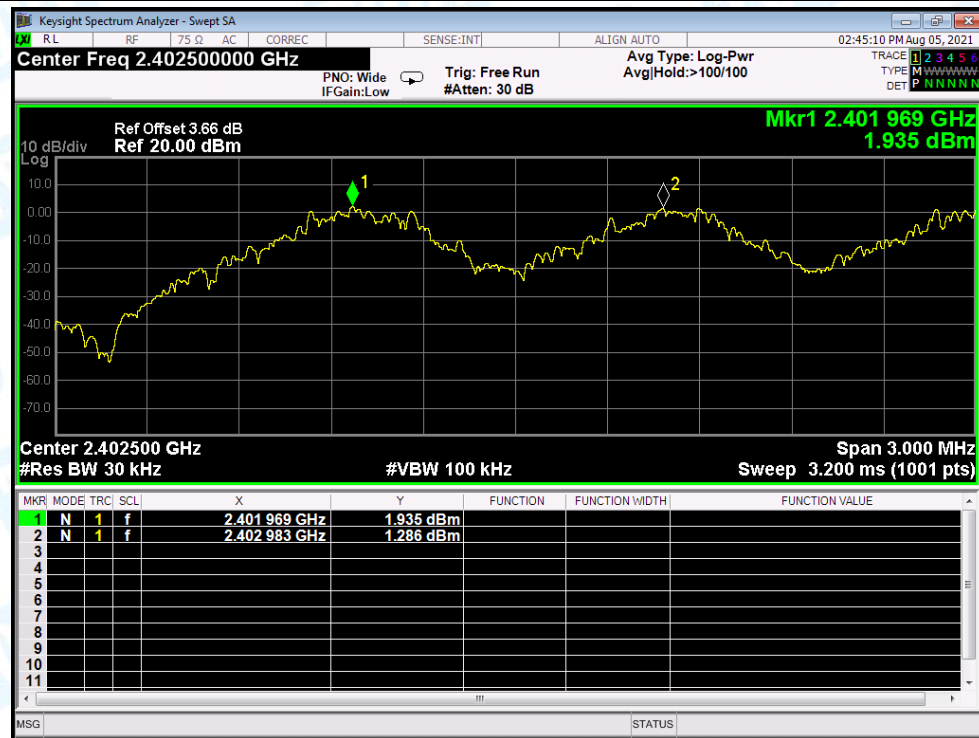
CFS NVNT 2-DH1 2441MHz Ant1



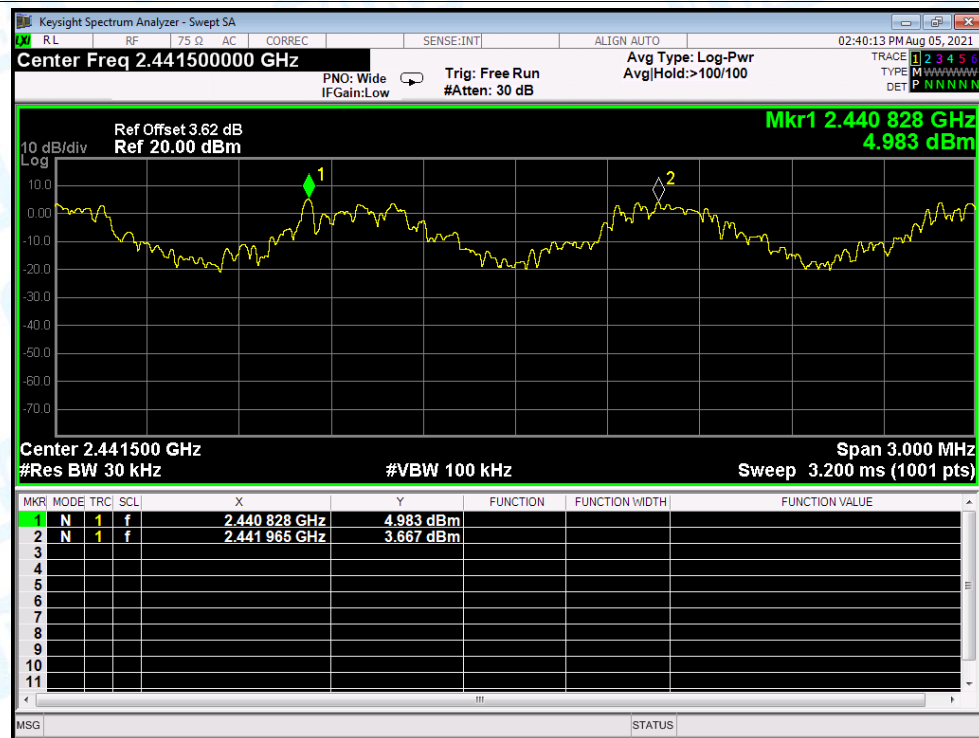
CFS NVNT 2-DH1 2480MHz Ant1

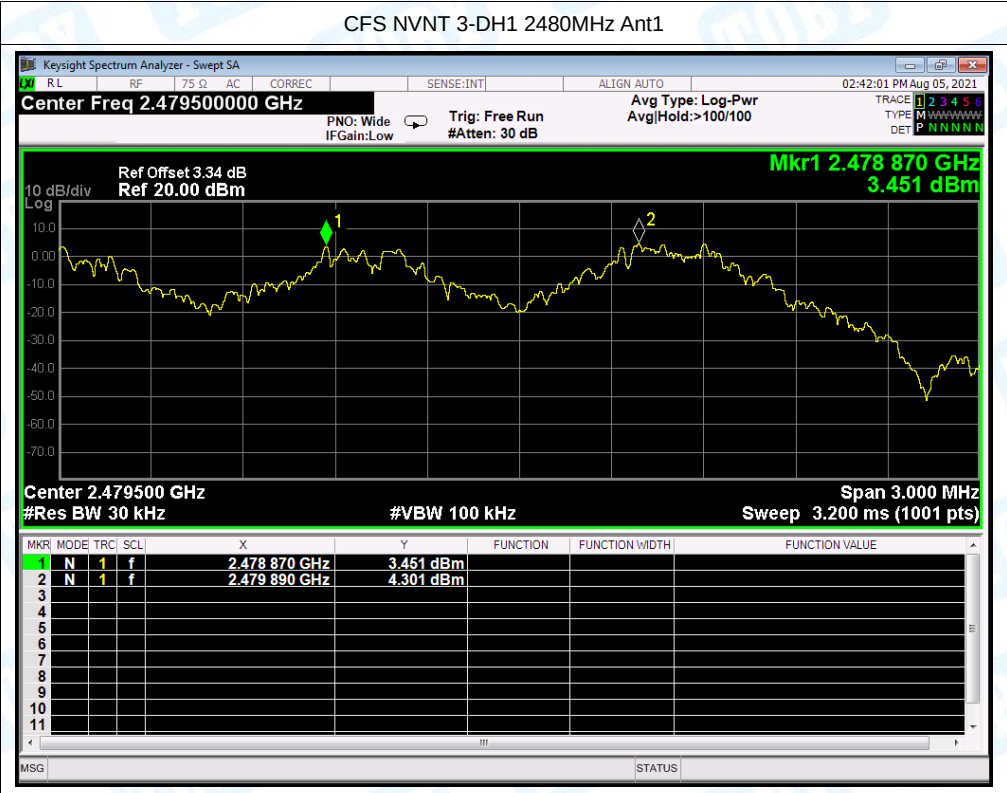


CFS NVNT 3-DH1 2402MHz Ant1



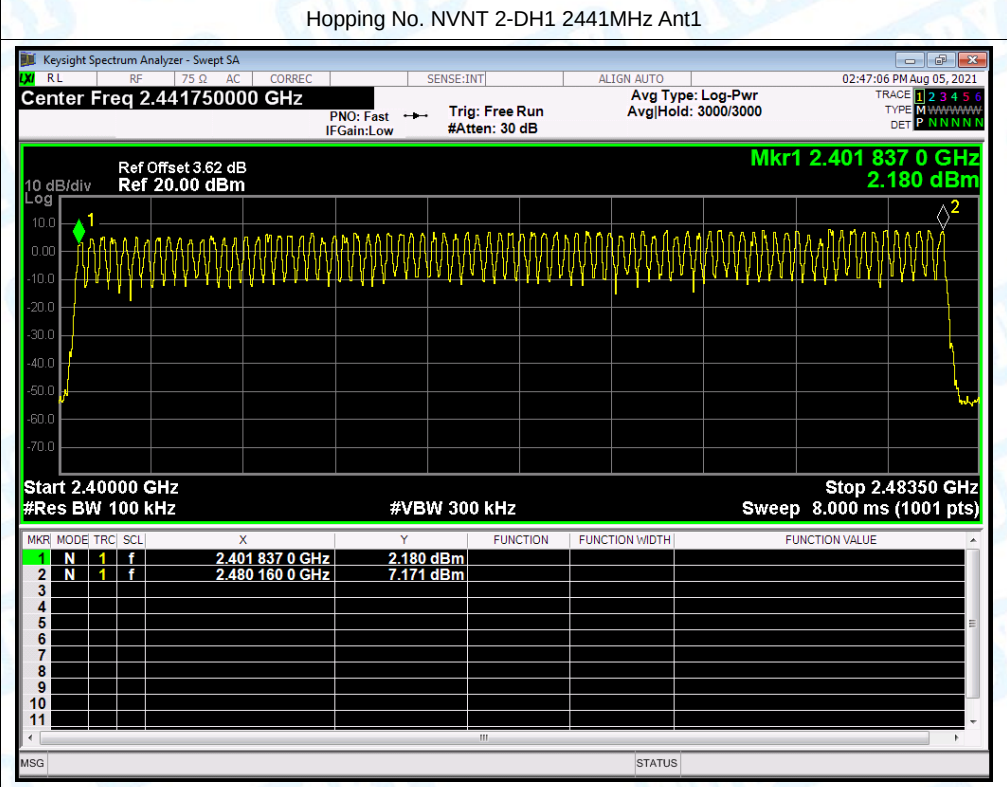
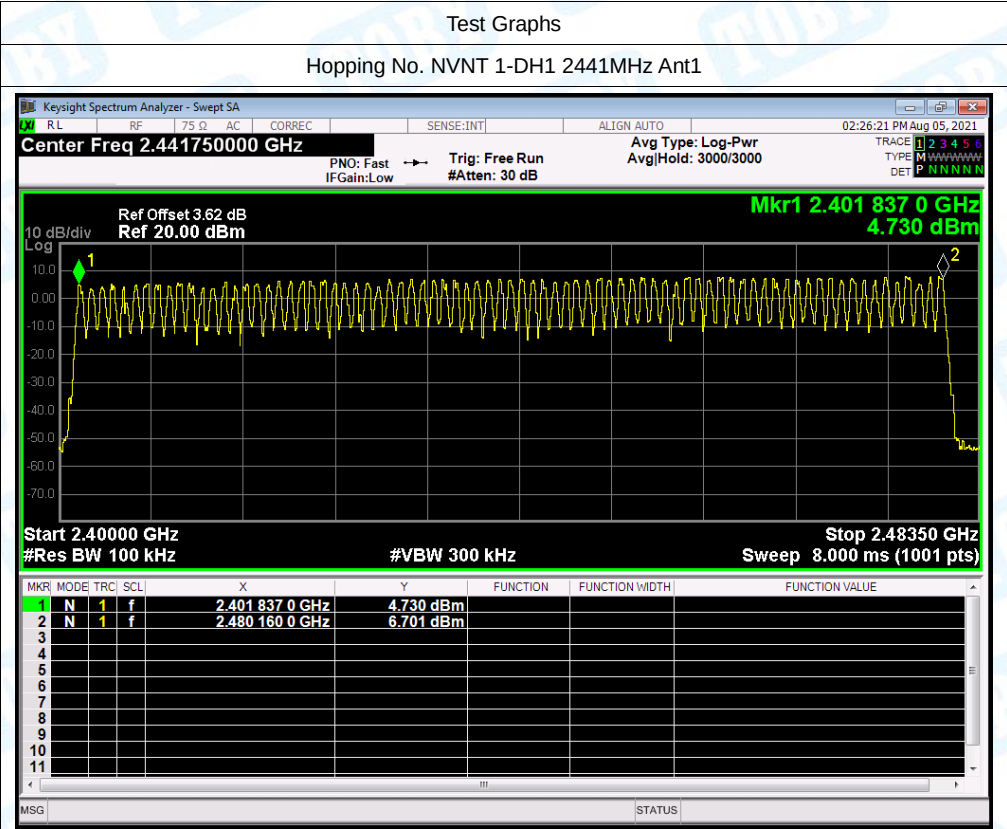
CFS NVNT 3-DH1 2441MHz Ant1

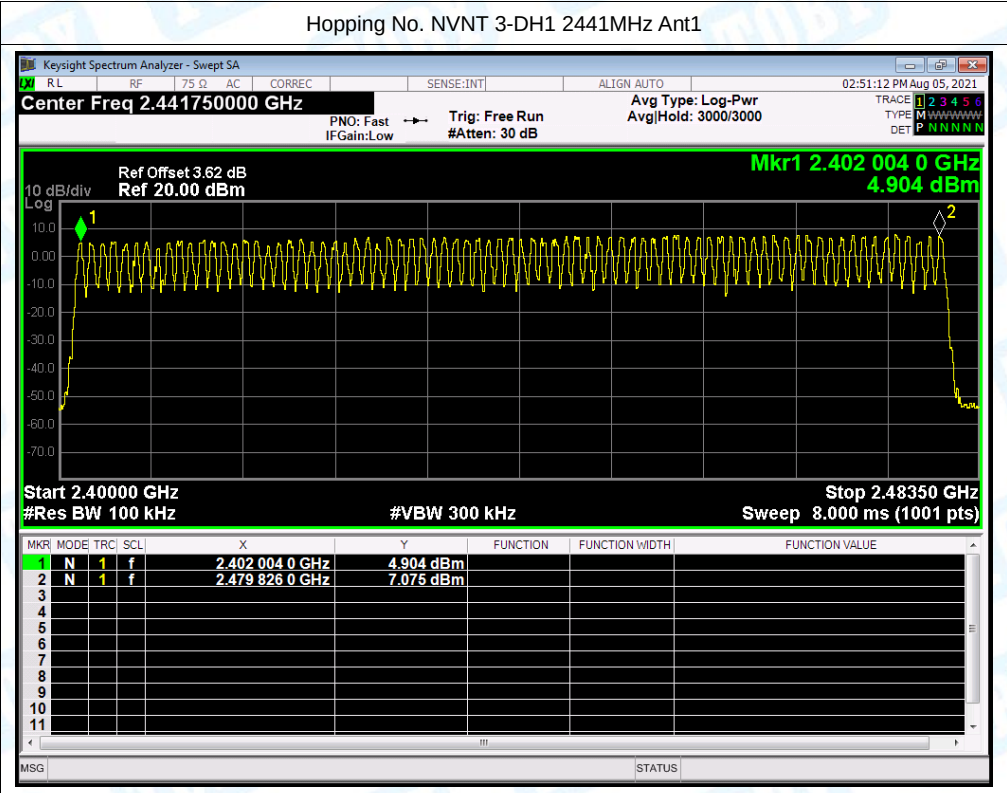




5.Number of Hopping Channel

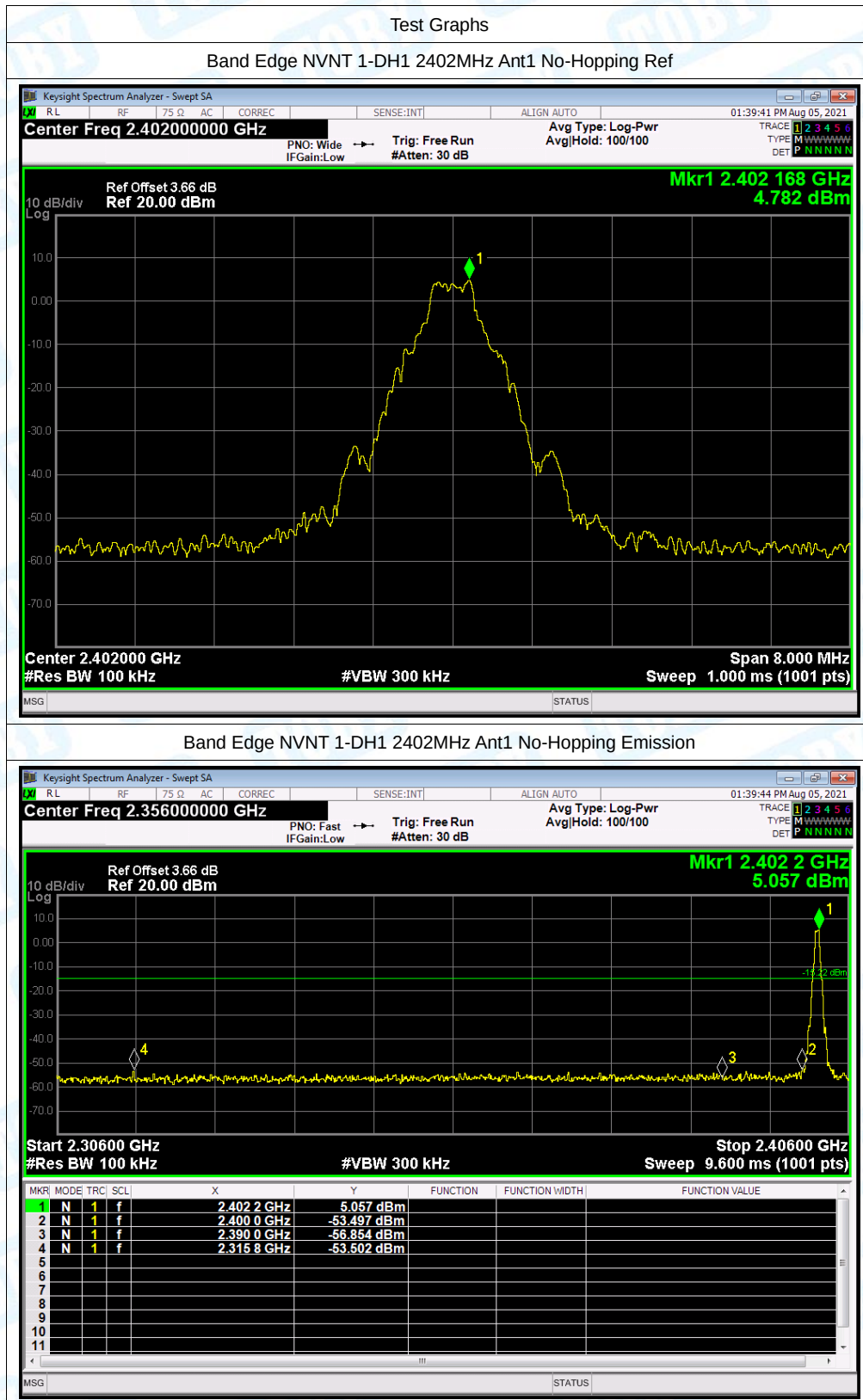
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass



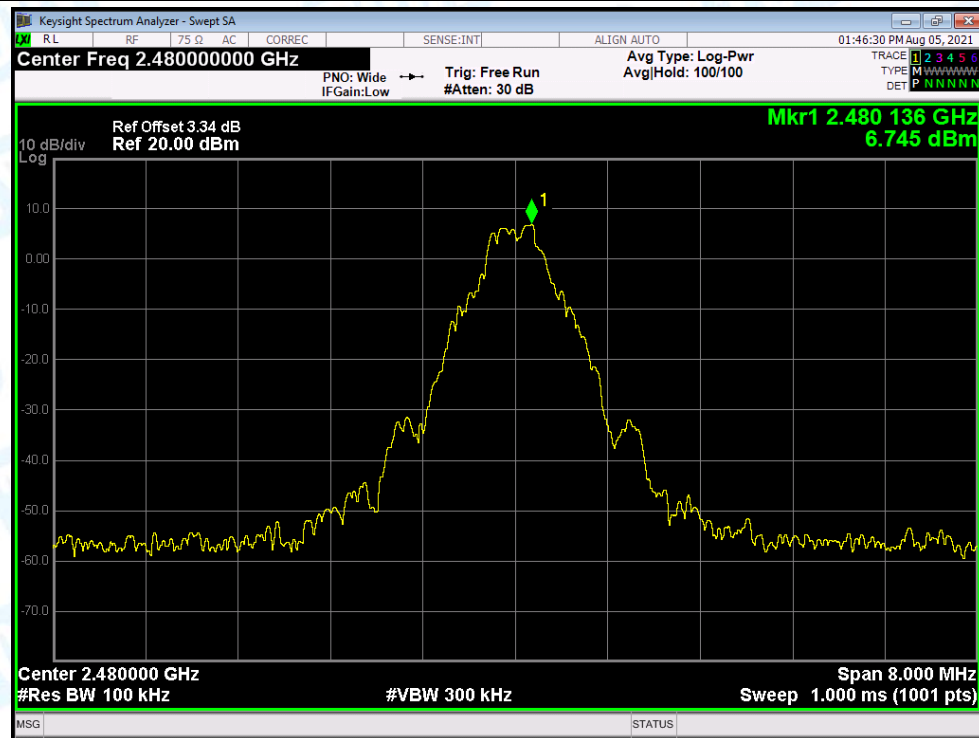


6.Band Edge

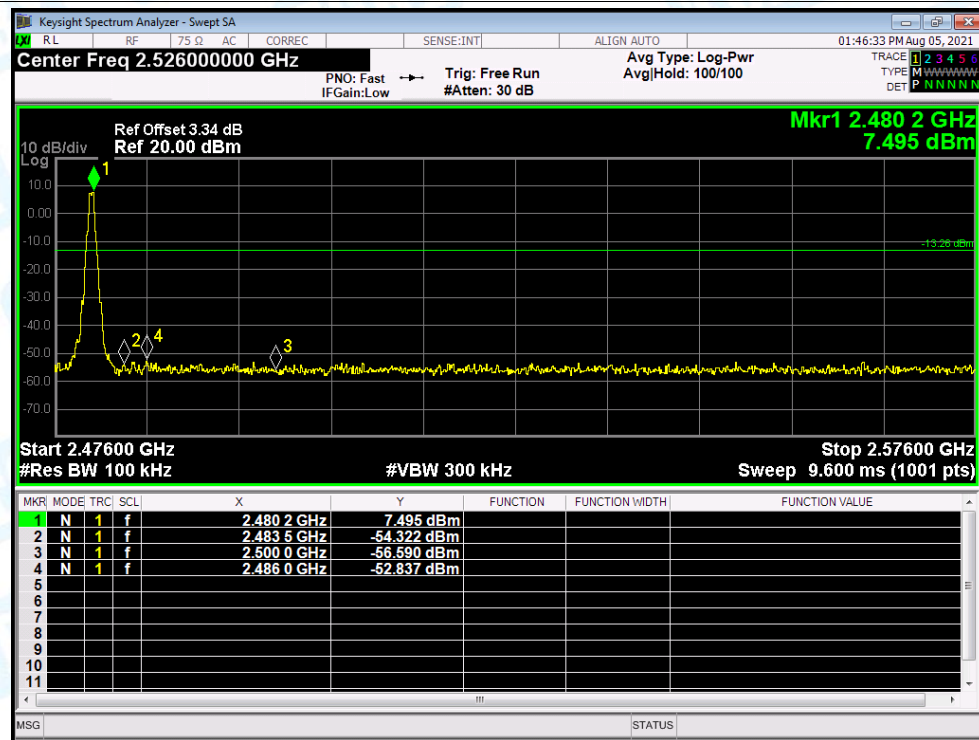
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-58.28	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-59.58	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-58.53	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-61.26	-20	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	-58.12	-20	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	-59.3	-20	Pass



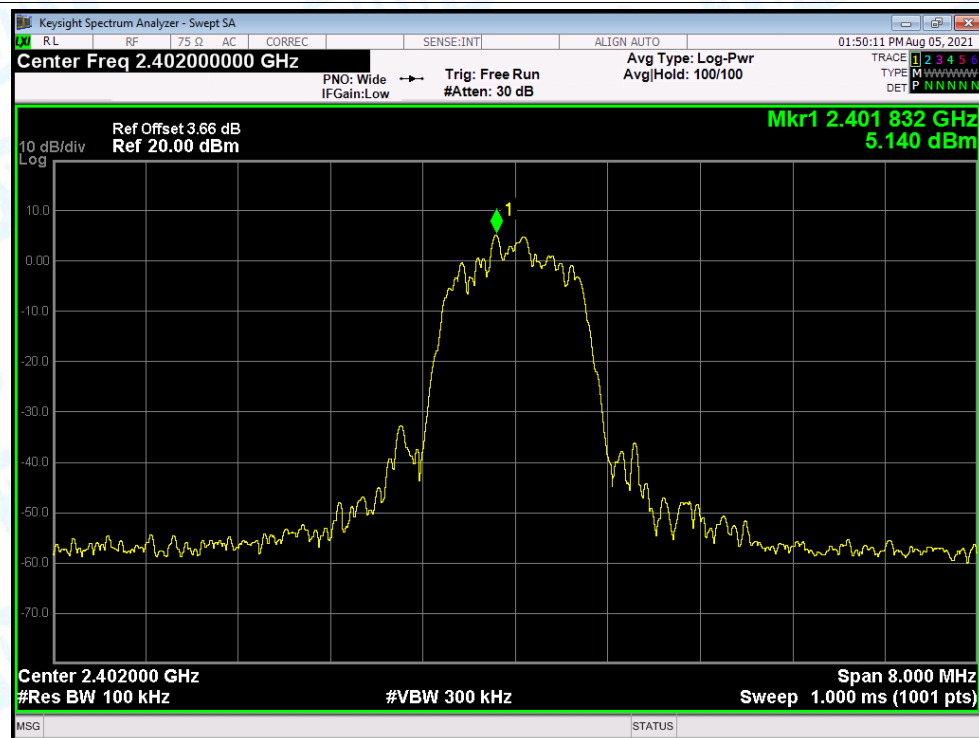
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



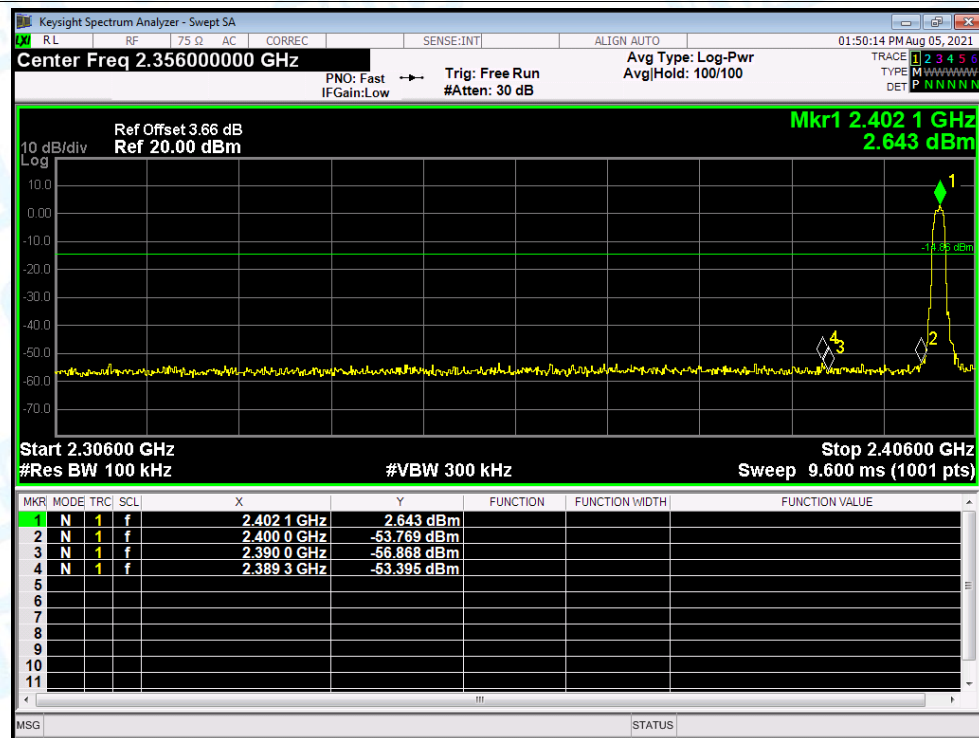
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



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



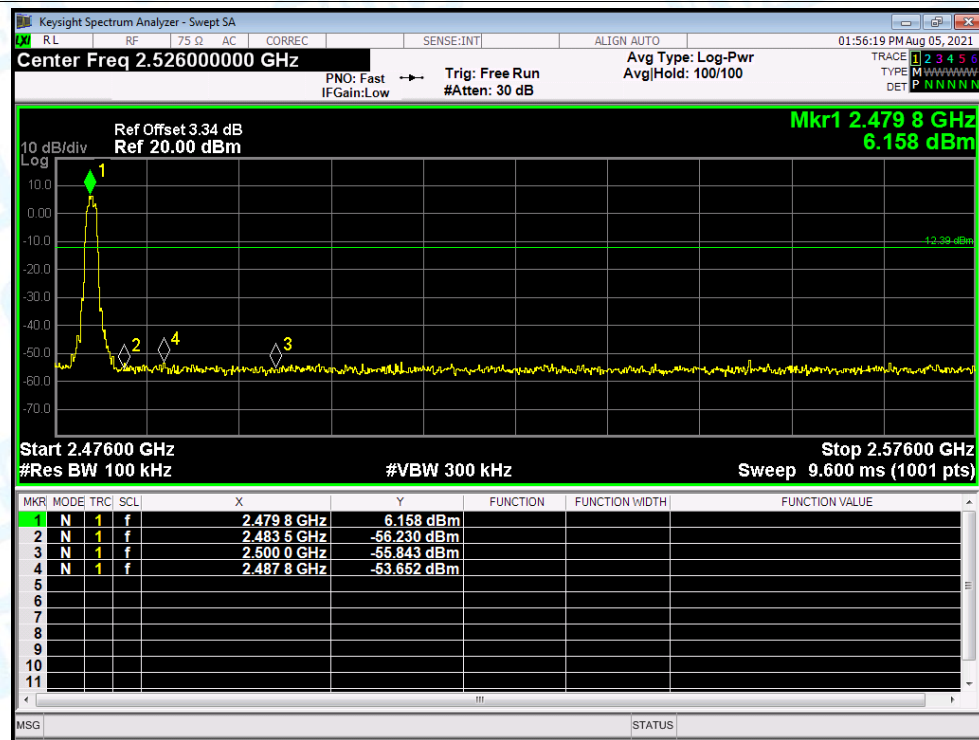
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



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



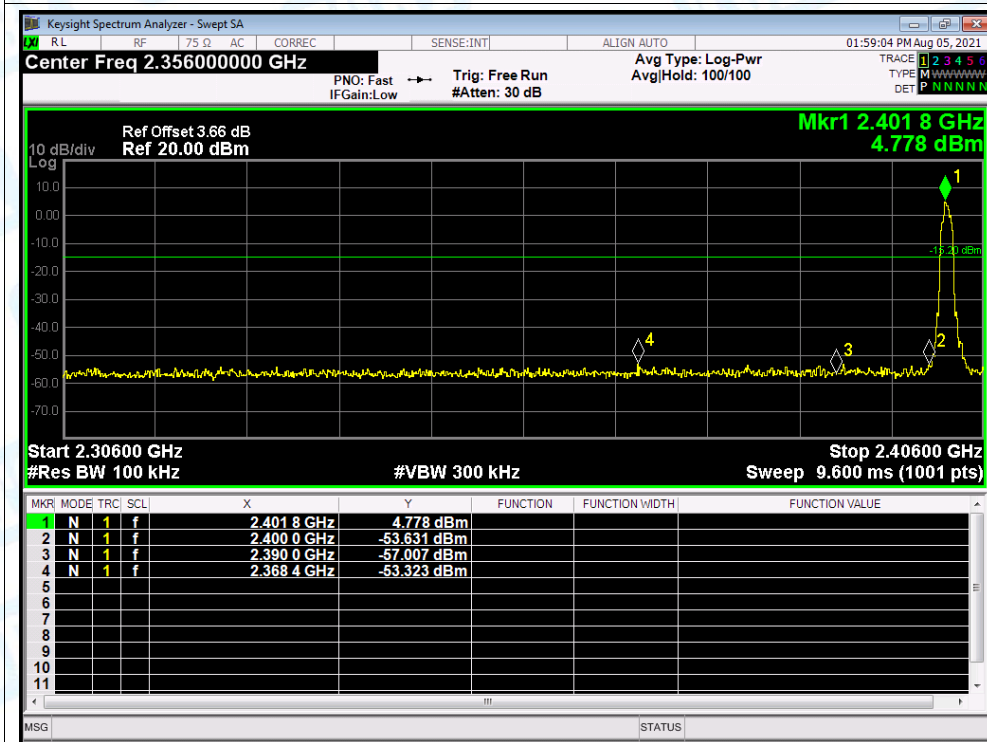
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



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



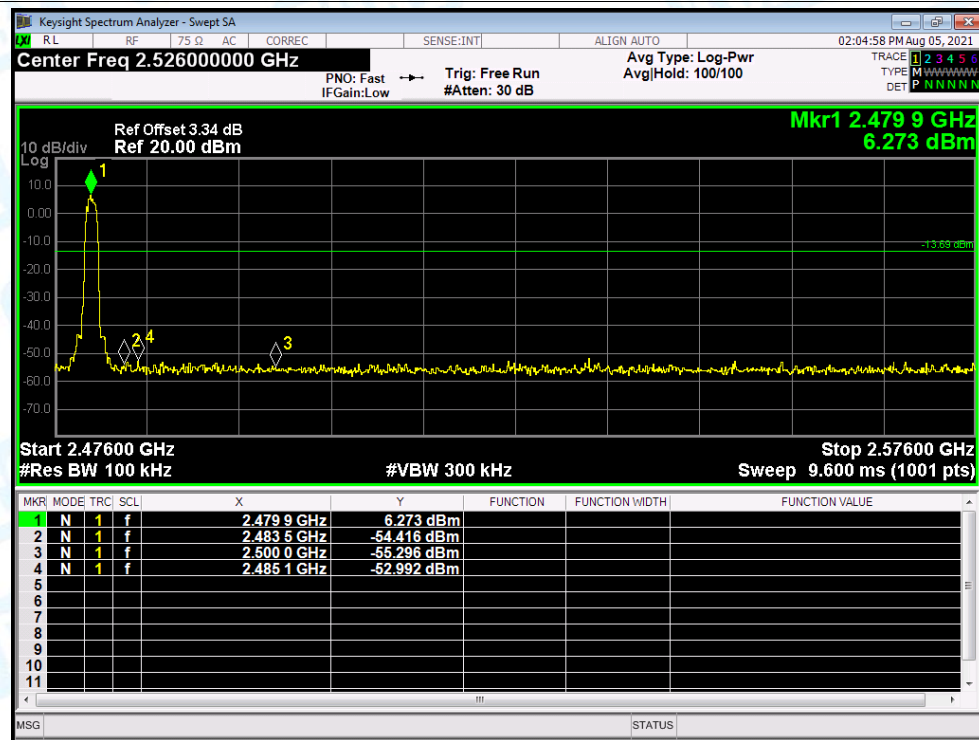
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission



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

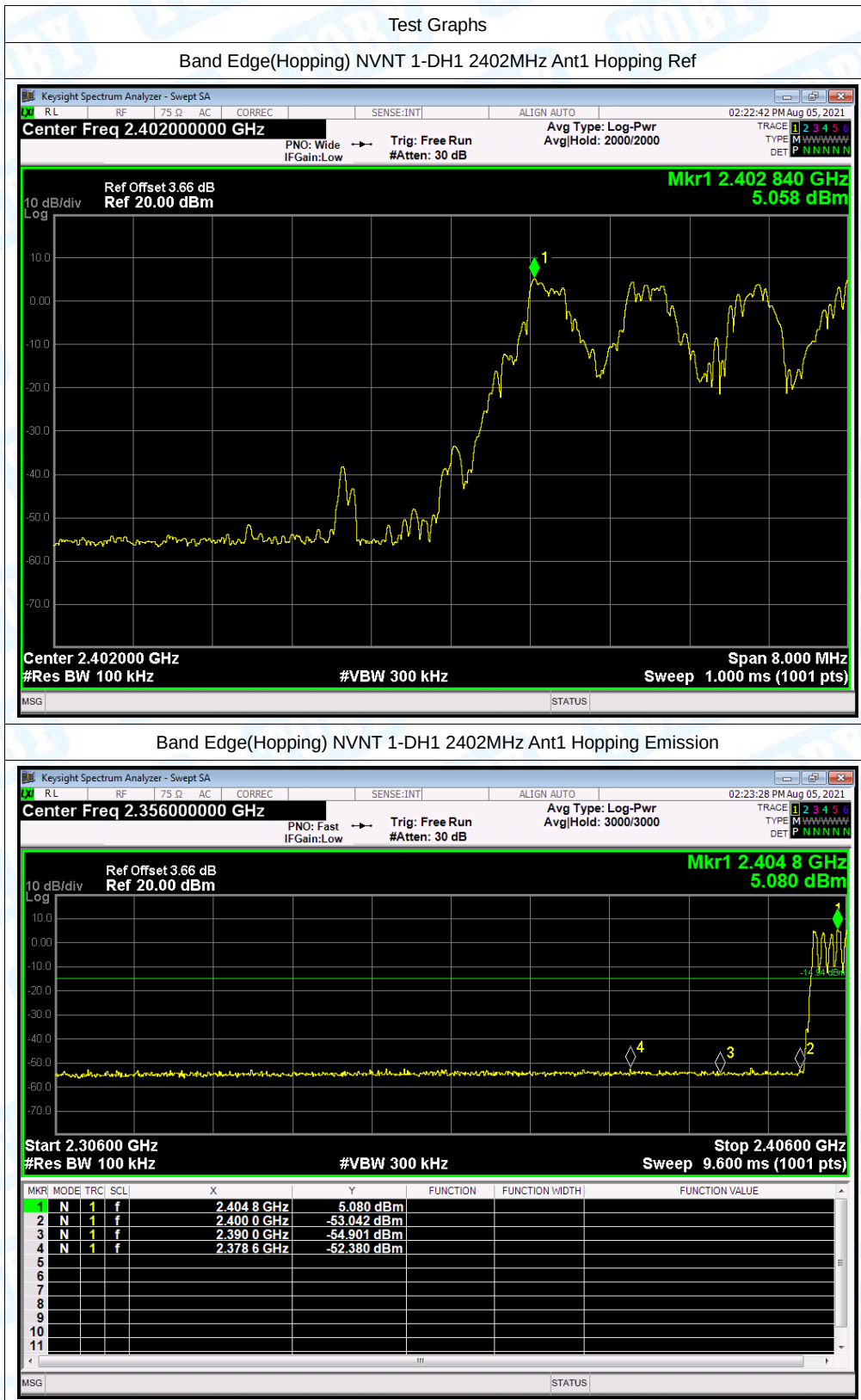


Band Edge NVNT 3-DH1 2480MHz Ant1 No-Hopping Emission



7.Band Edge(Hopping)

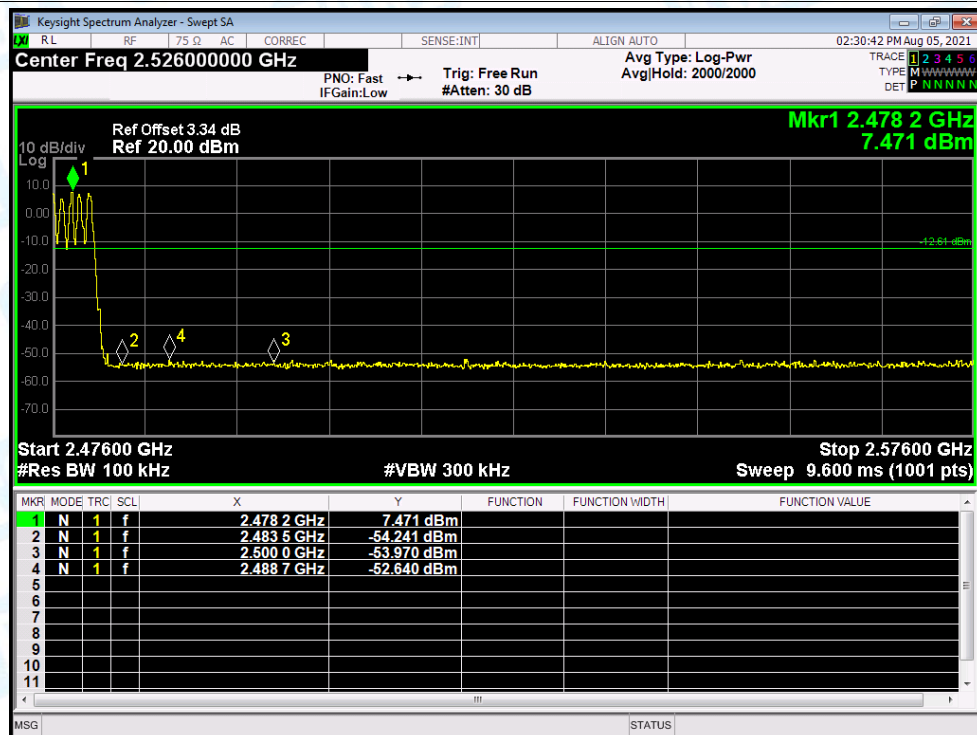
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-57.43	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-60.02	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-57.28	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-58.92	-20	Pass
NVNT	3-DH1	2402	Ant1	Hopping	-56.98	-20	Pass
NVNT	3-DH1	2480	Ant1	Hopping	-59.48	-20	Pass



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



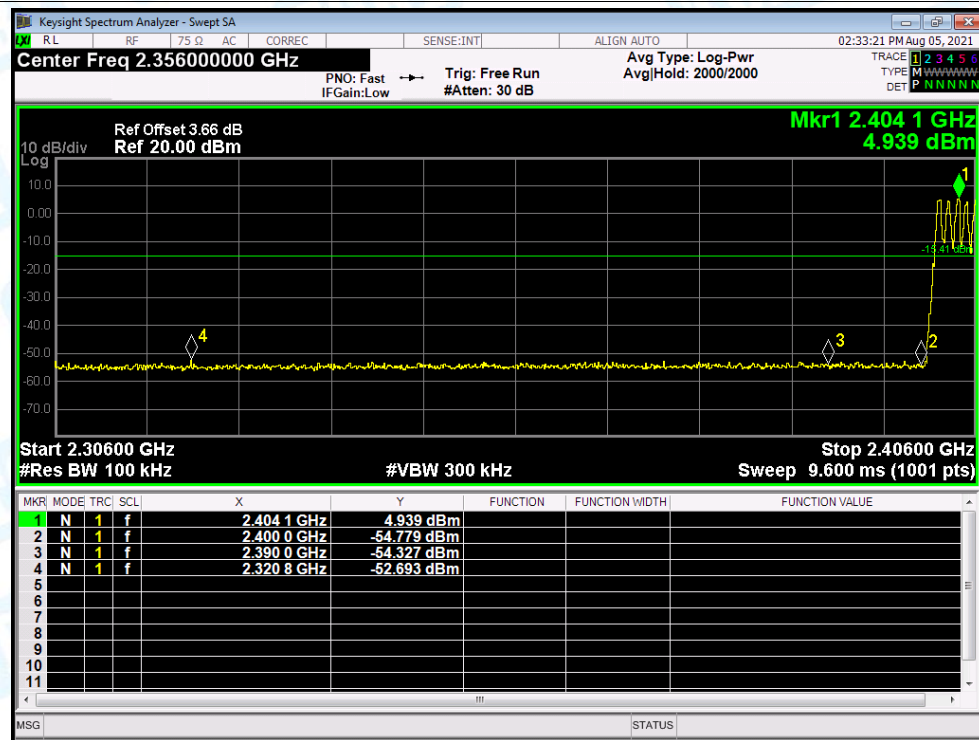
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



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



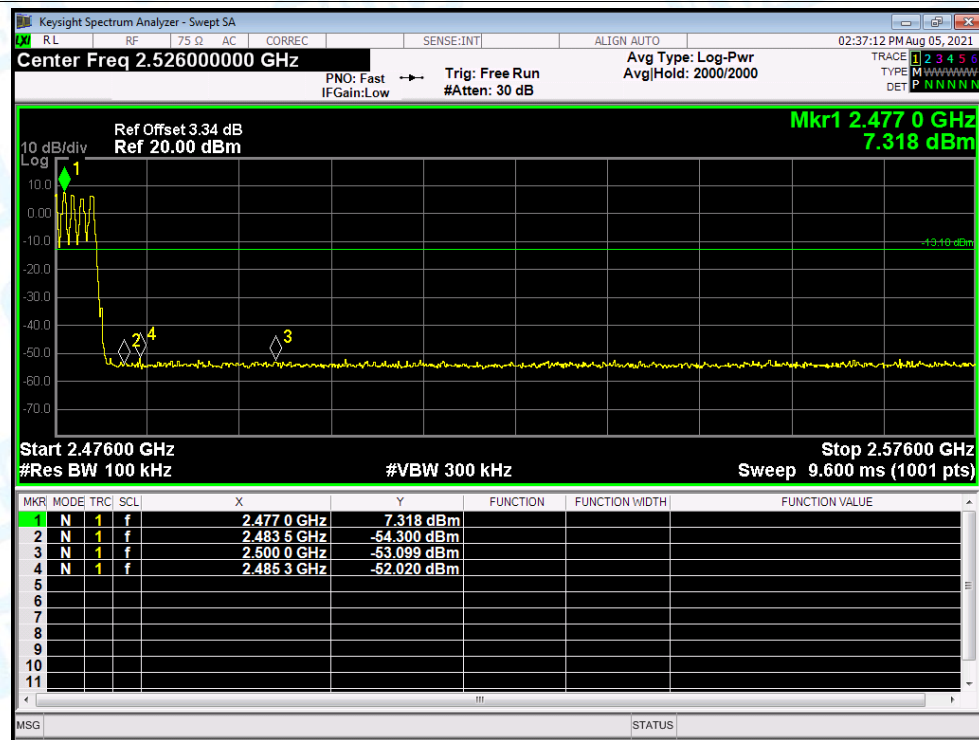
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



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



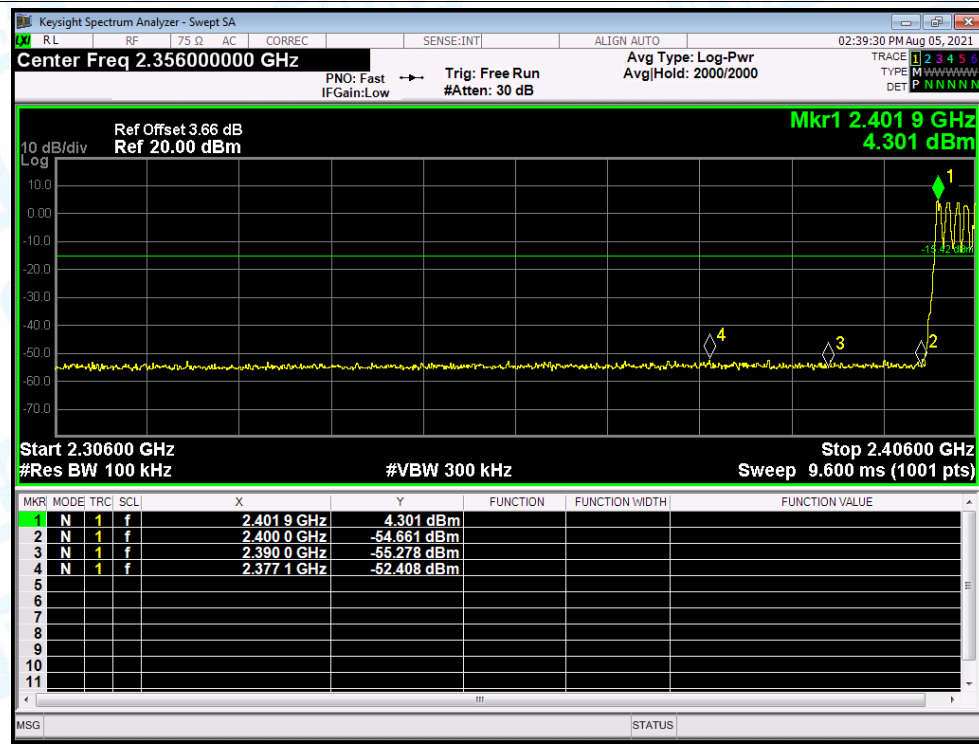
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission



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



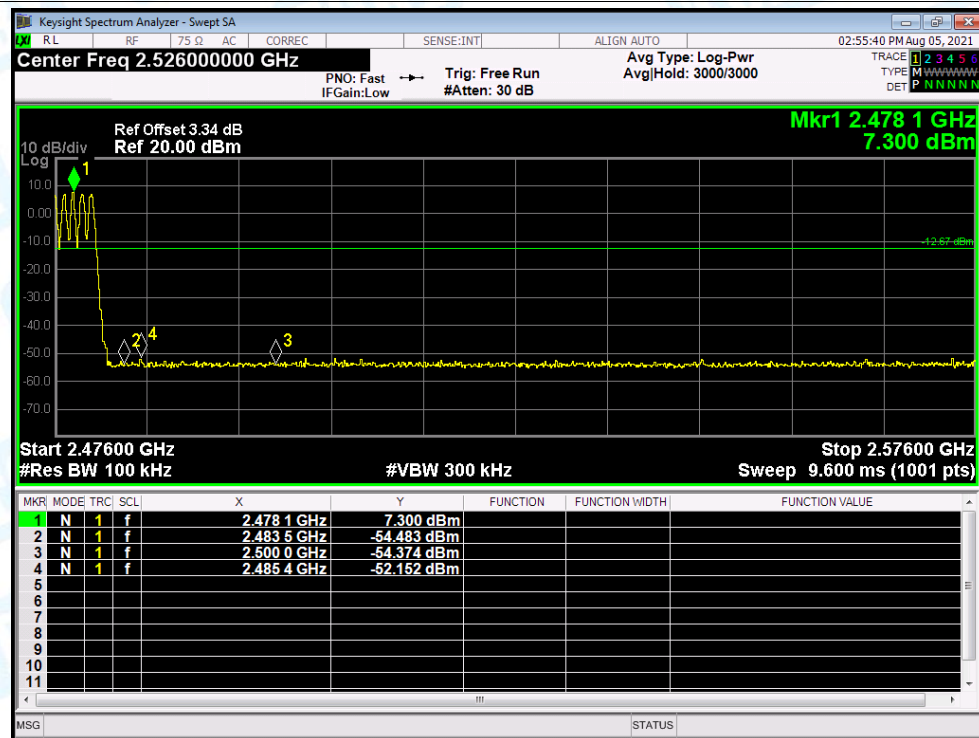
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Emission



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



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

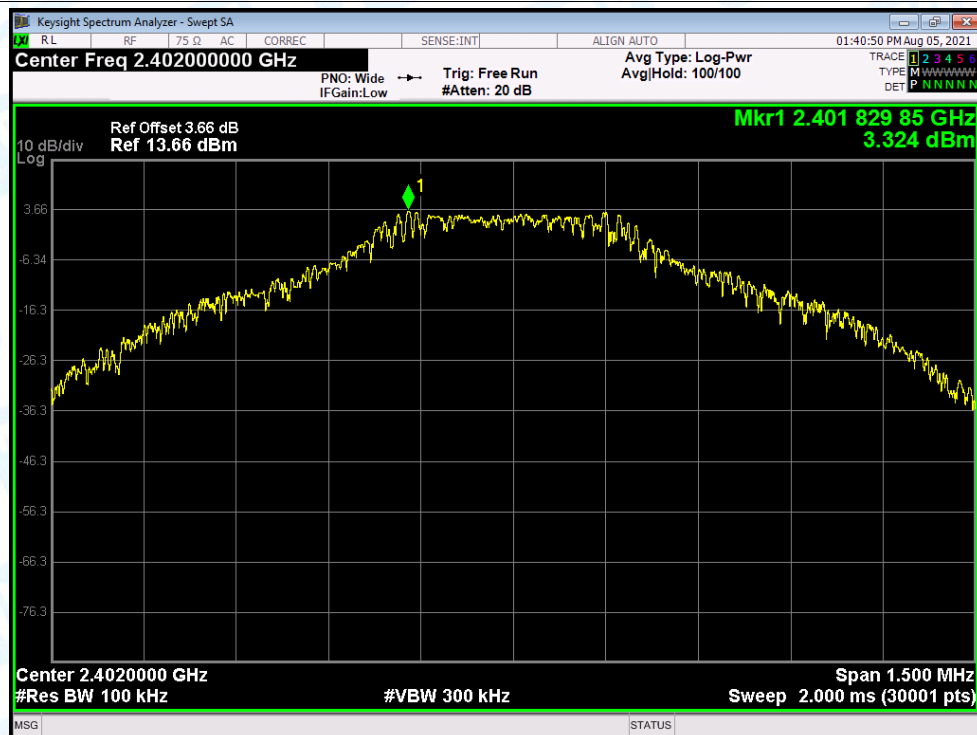


8. Conducted RF Spurious Emission

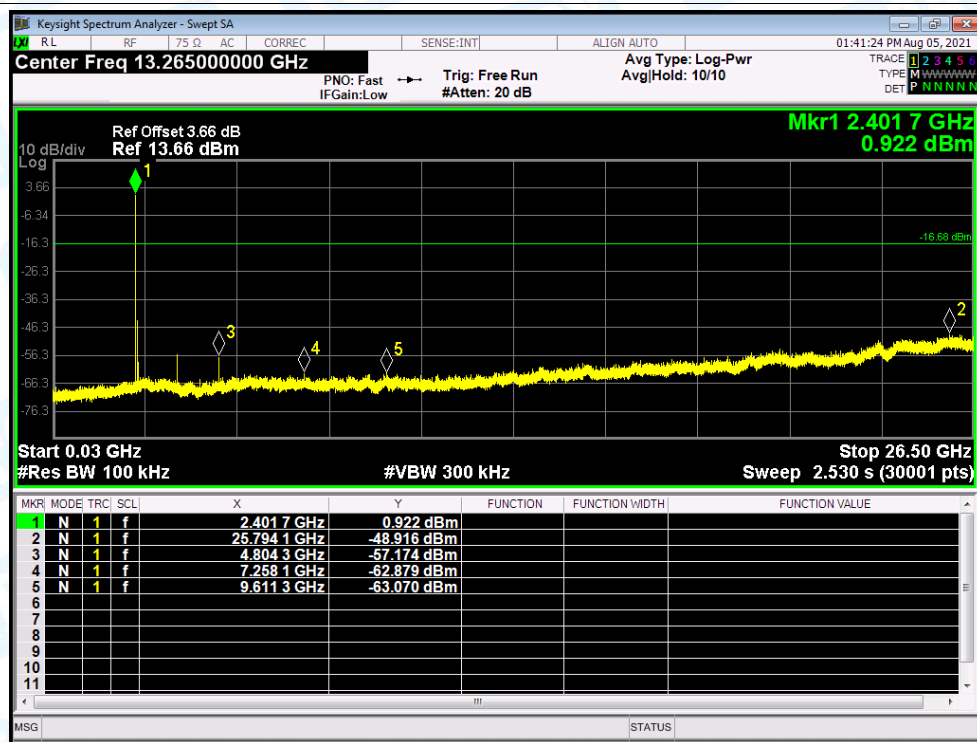
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-52.23	-20	Pass
NVNT	1-DH1	2441	Ant1	-44.56	-20	Pass
NVNT	1-DH1	2480	Ant1	-54.1	-20	Pass
NVNT	2-DH1	2402	Ant1	-43.14	-20	Pass
NVNT	2-DH1	2441	Ant1	-45.13	-20	Pass
NVNT	2-DH1	2480	Ant1	-54.26	-20	Pass
NVNT	3-DH1	2402	Ant1	-43.14	-20	Pass
NVNT	3-DH1	2441	Ant1	-45.09	-20	Pass
NVNT	3-DH1	2480	Ant1	-45.1	-20	Pass

Test Graphs

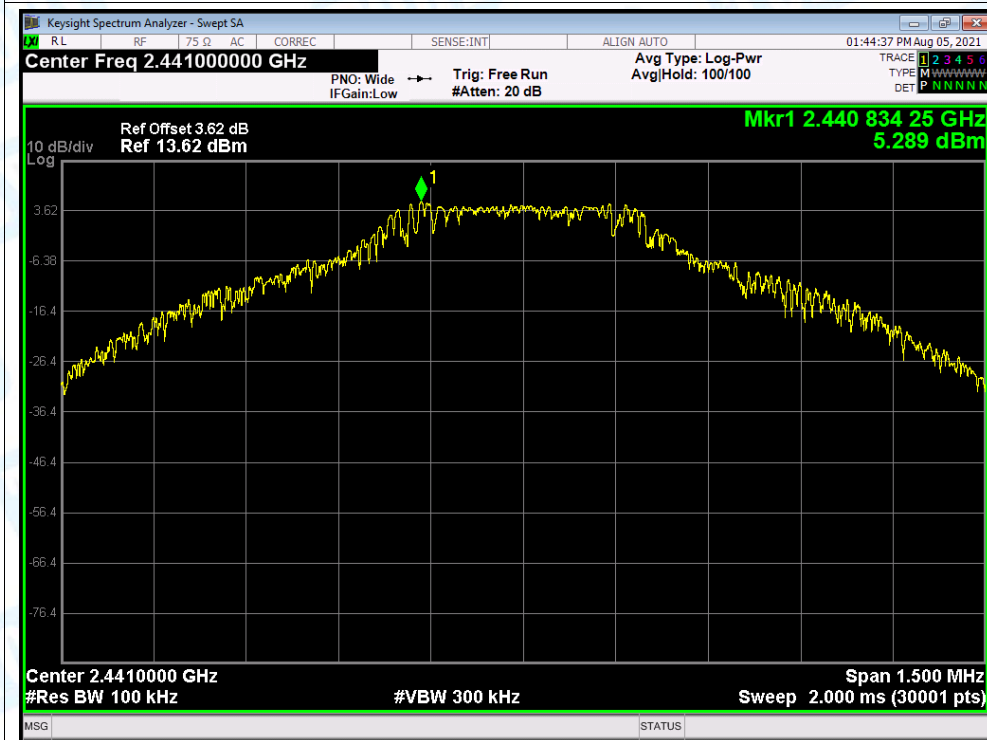
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



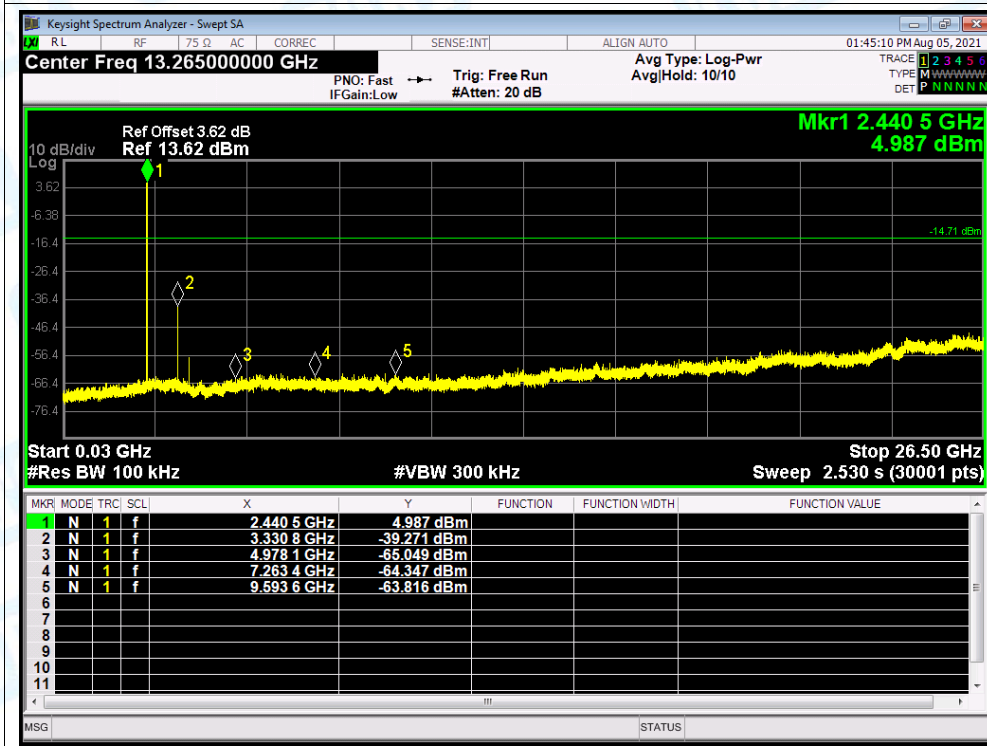
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



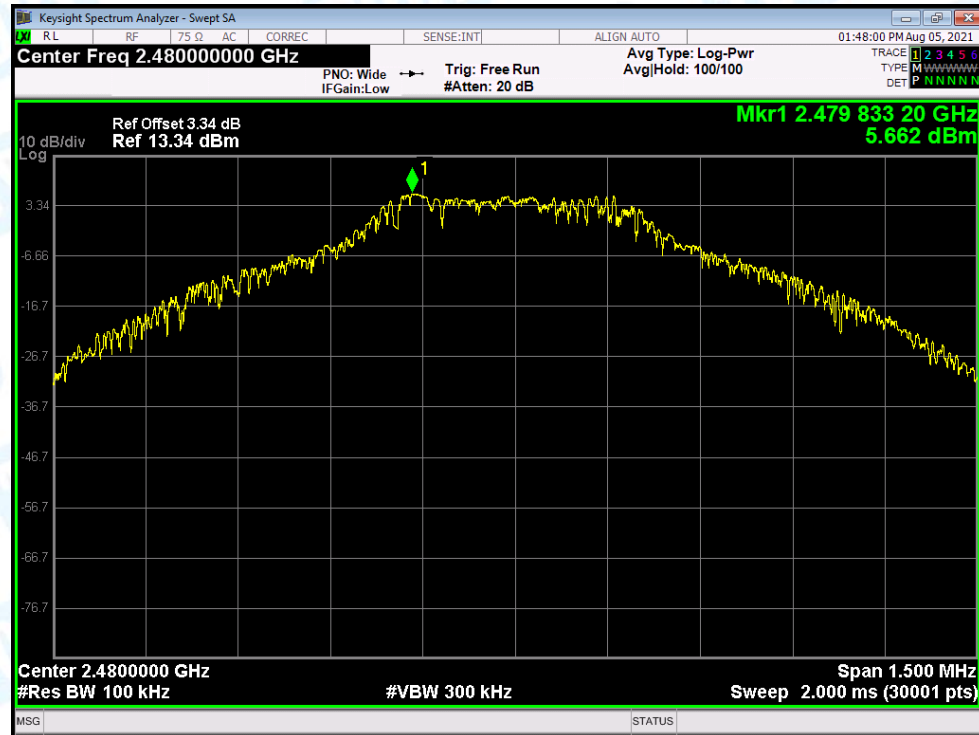
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



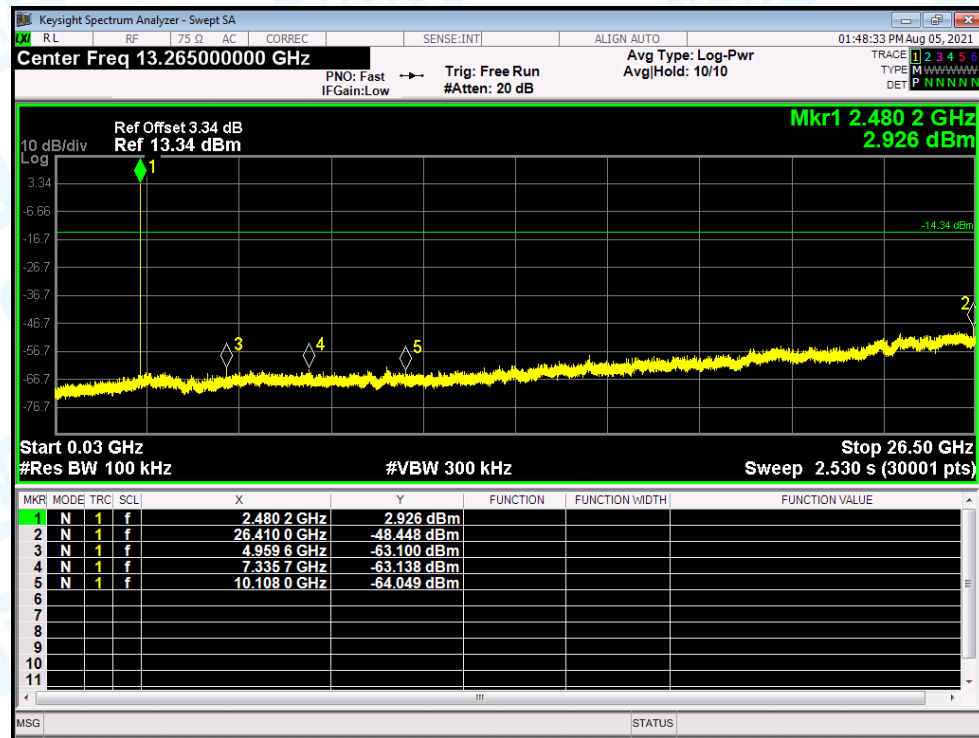
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



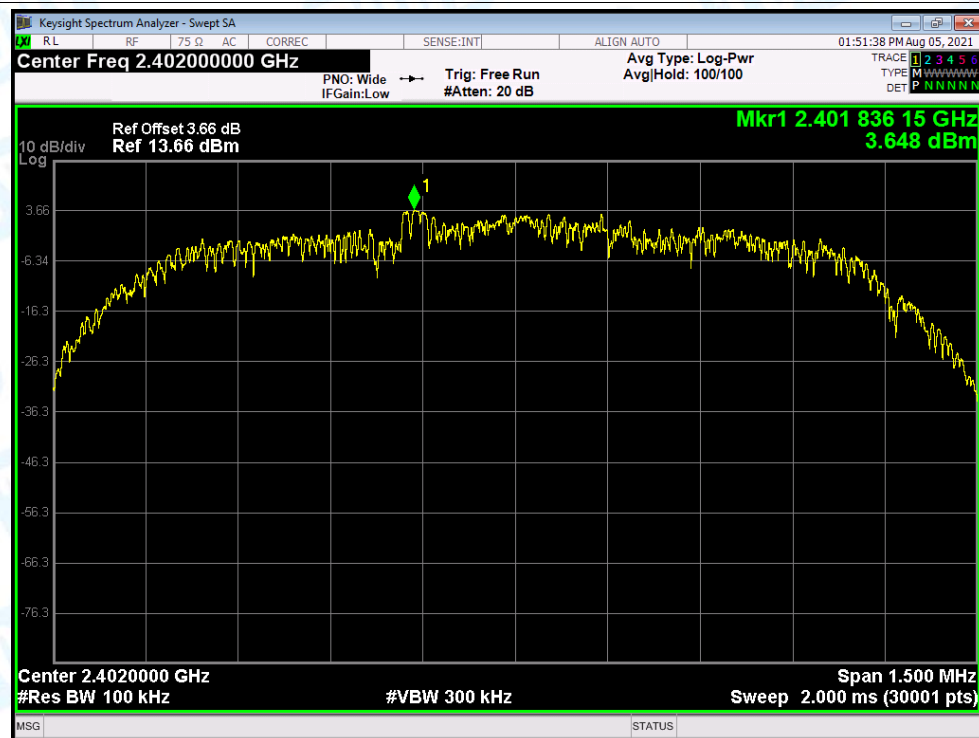
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



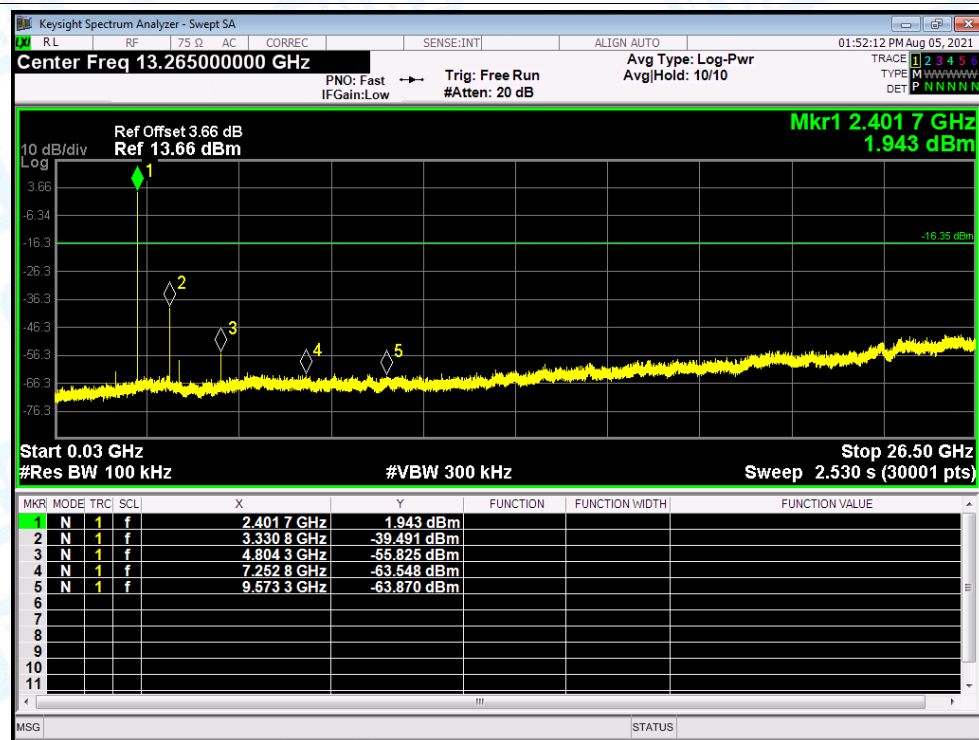
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



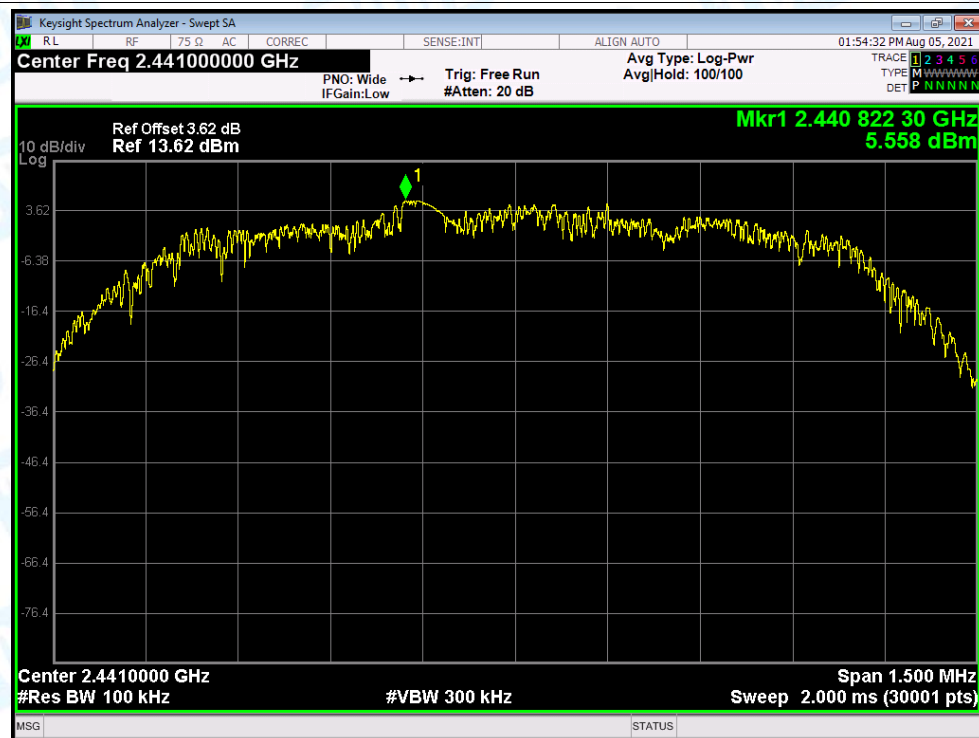
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



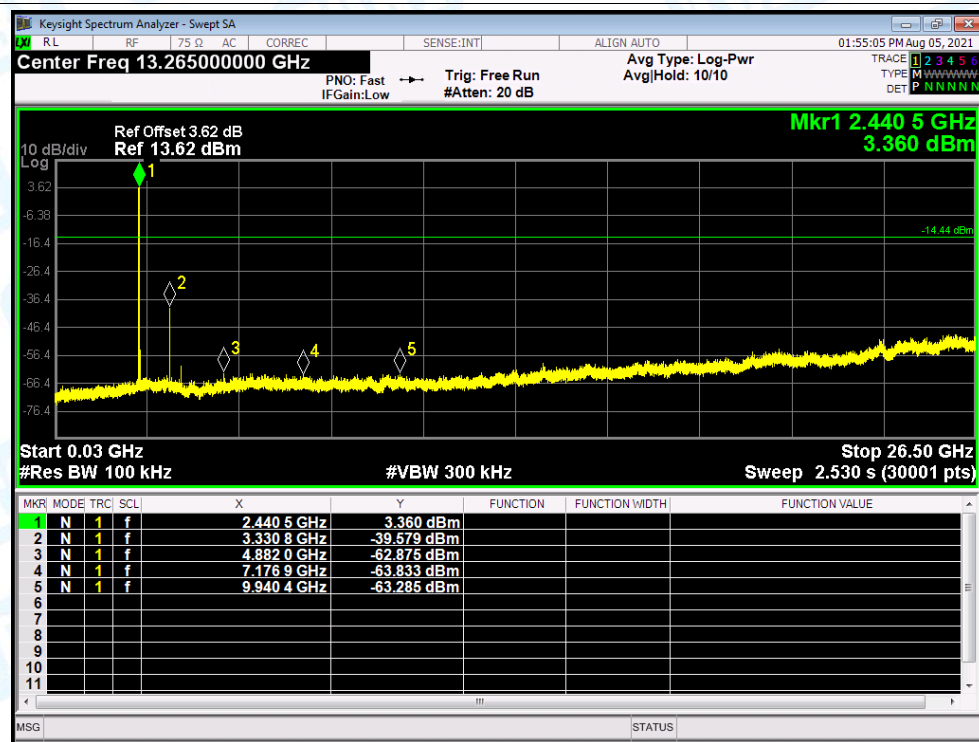
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



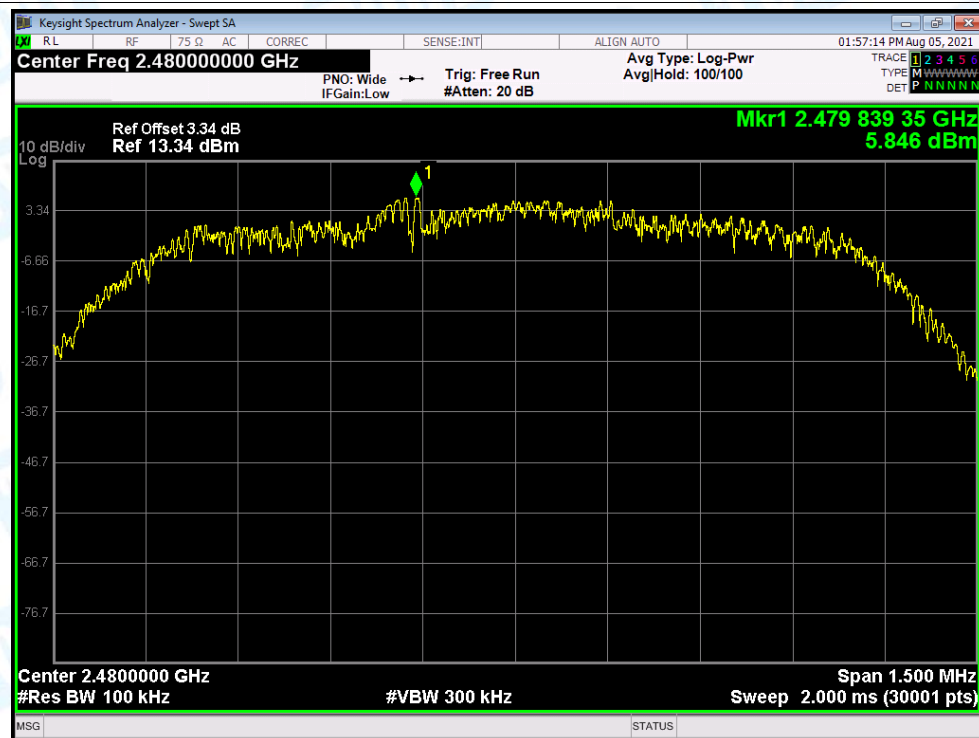
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



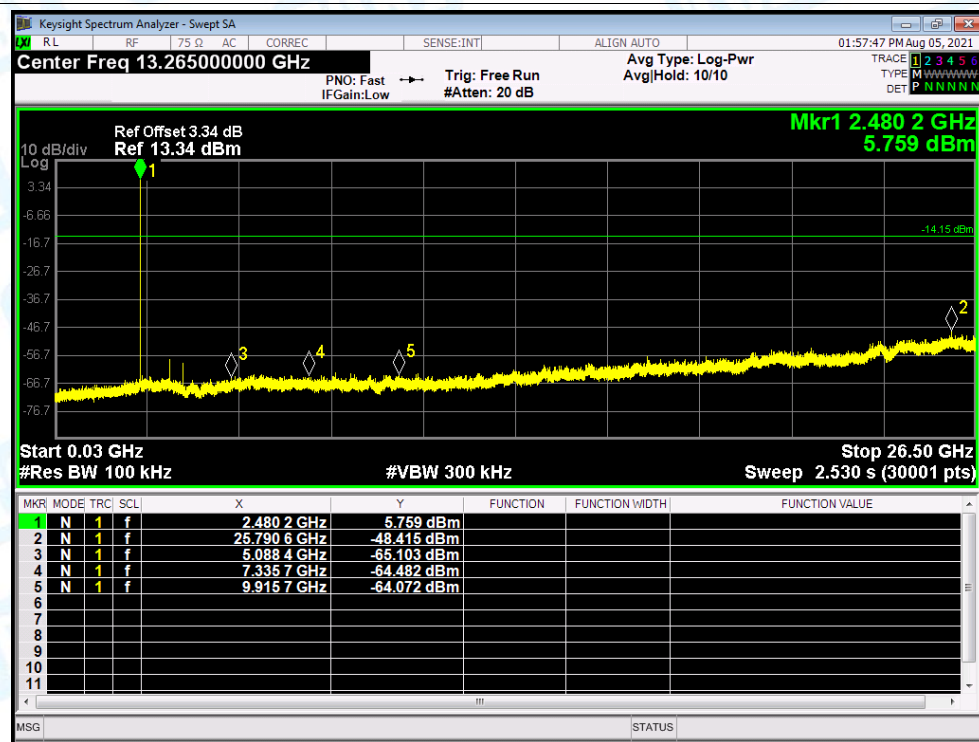
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



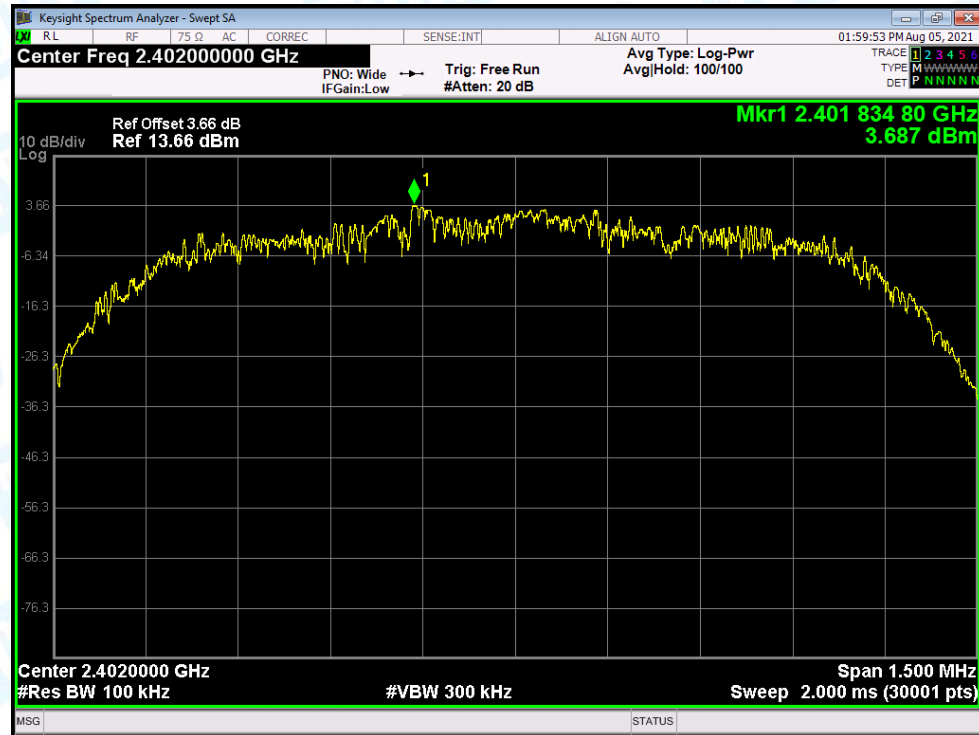
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



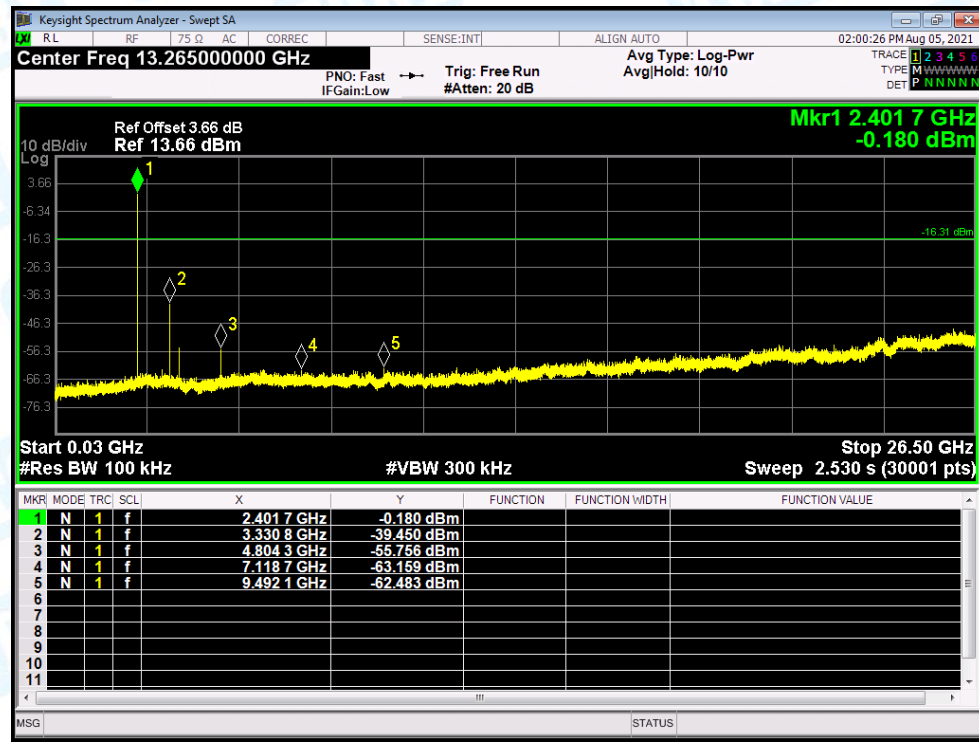
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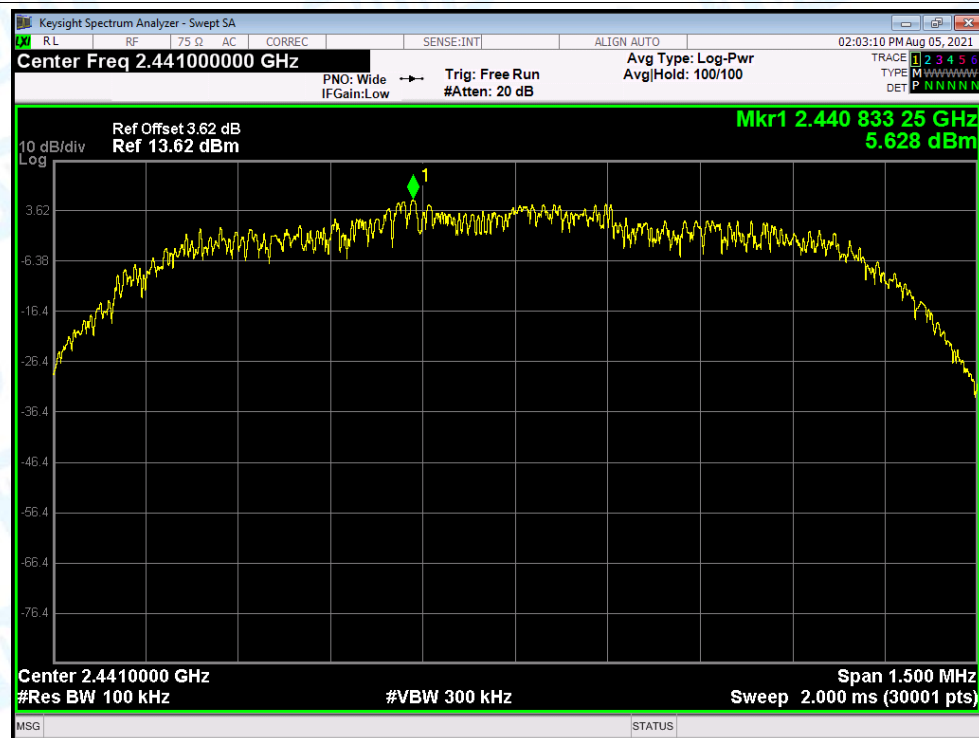
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref



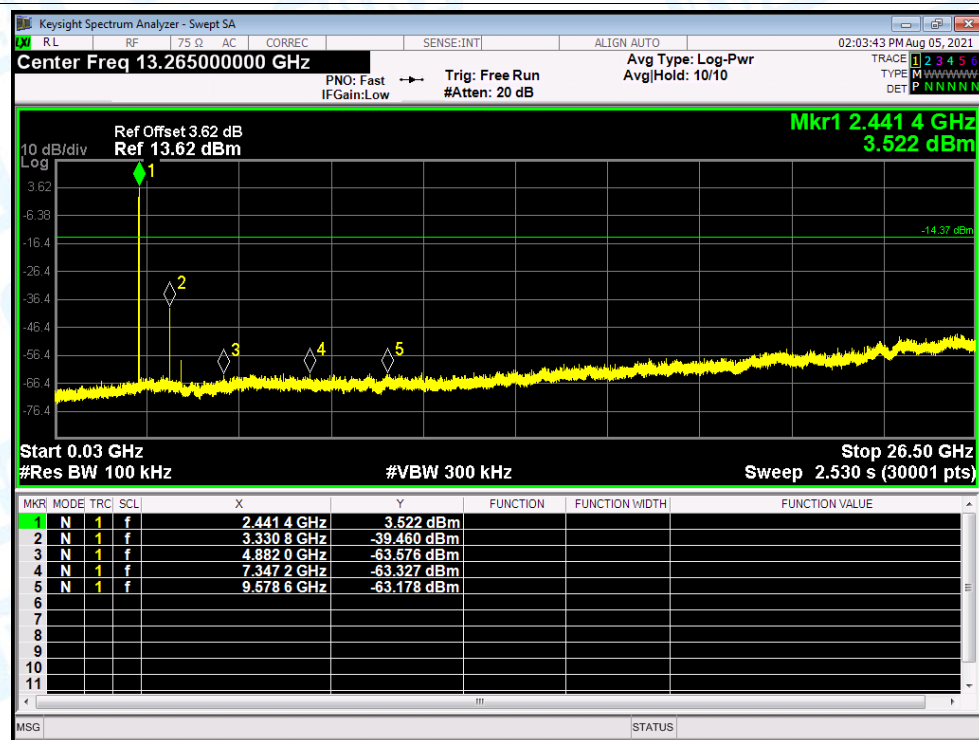
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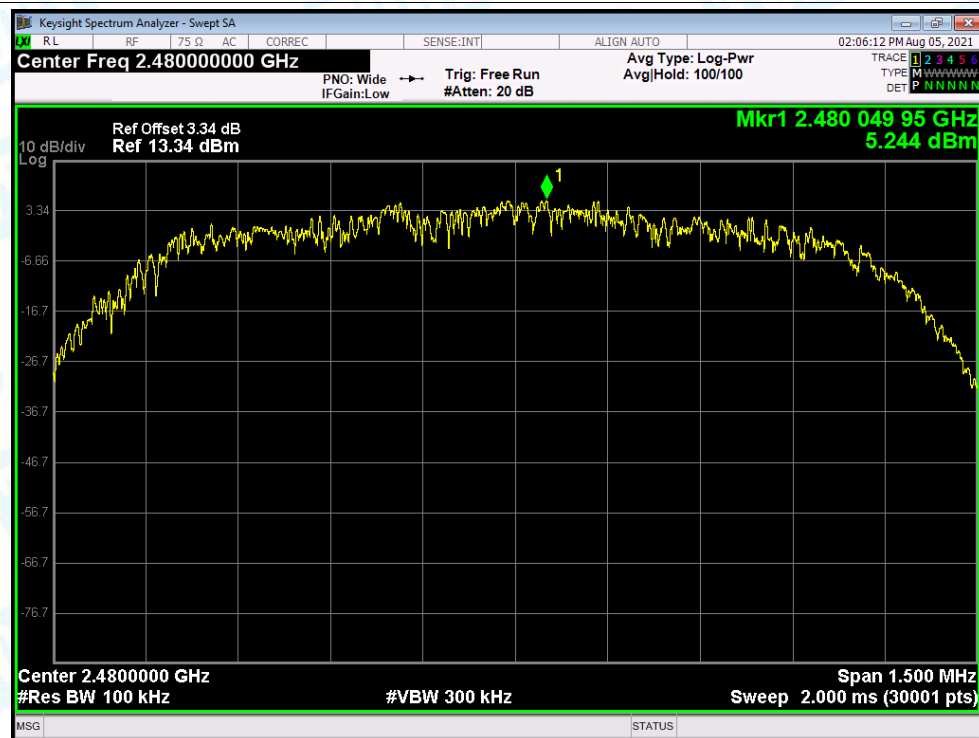
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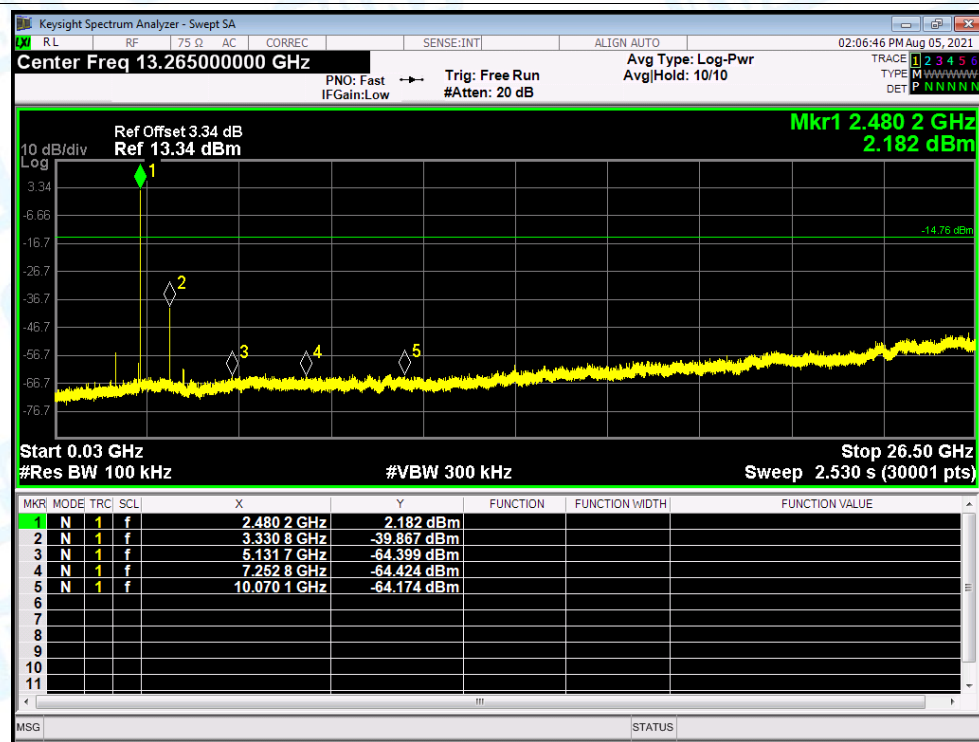
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref

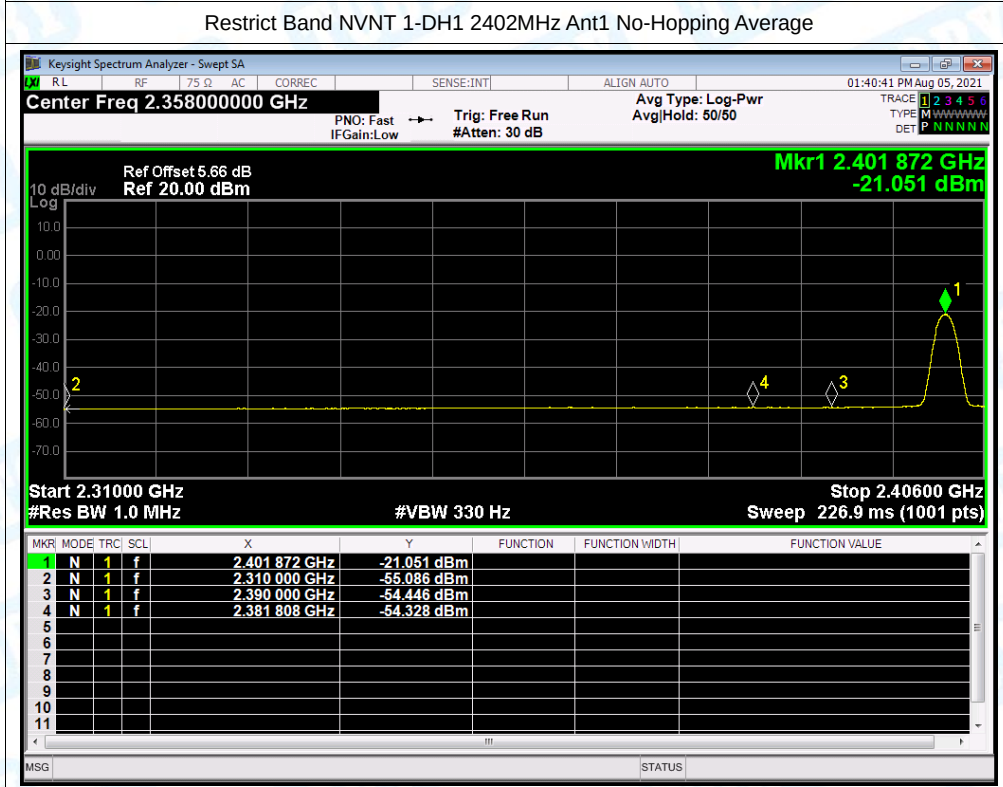
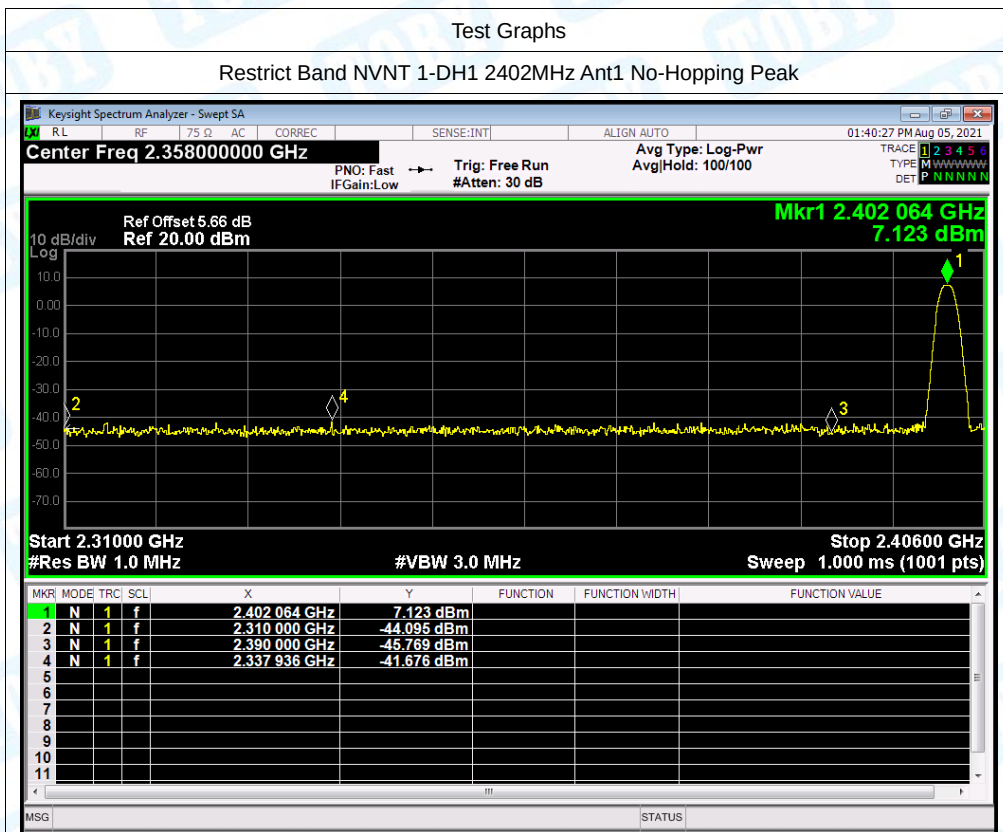


Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

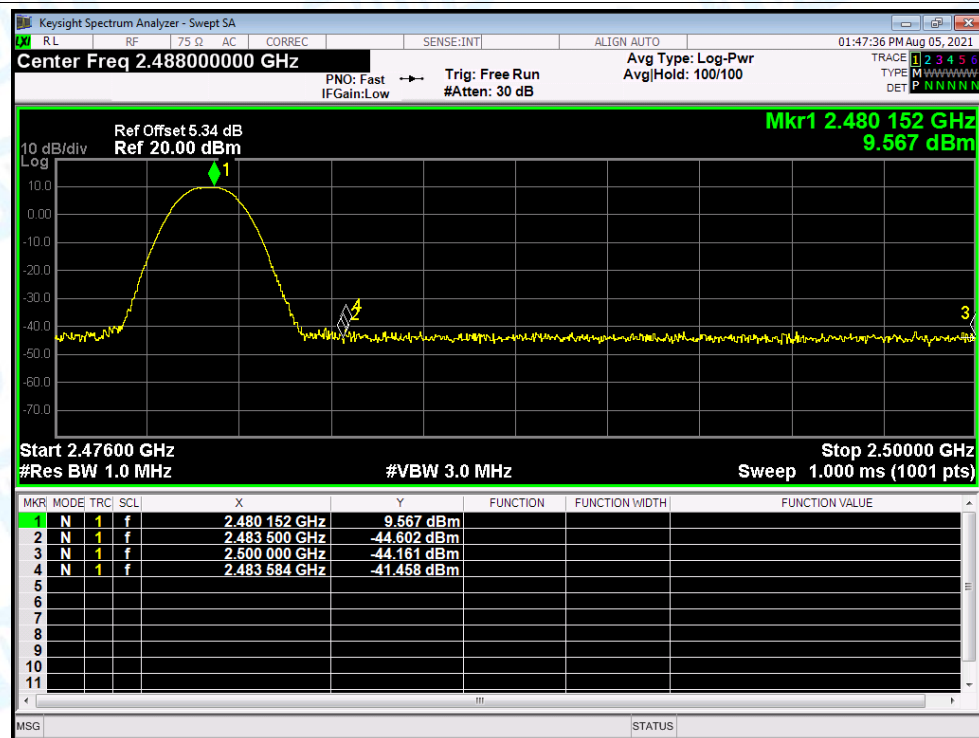


9.Restrict Band

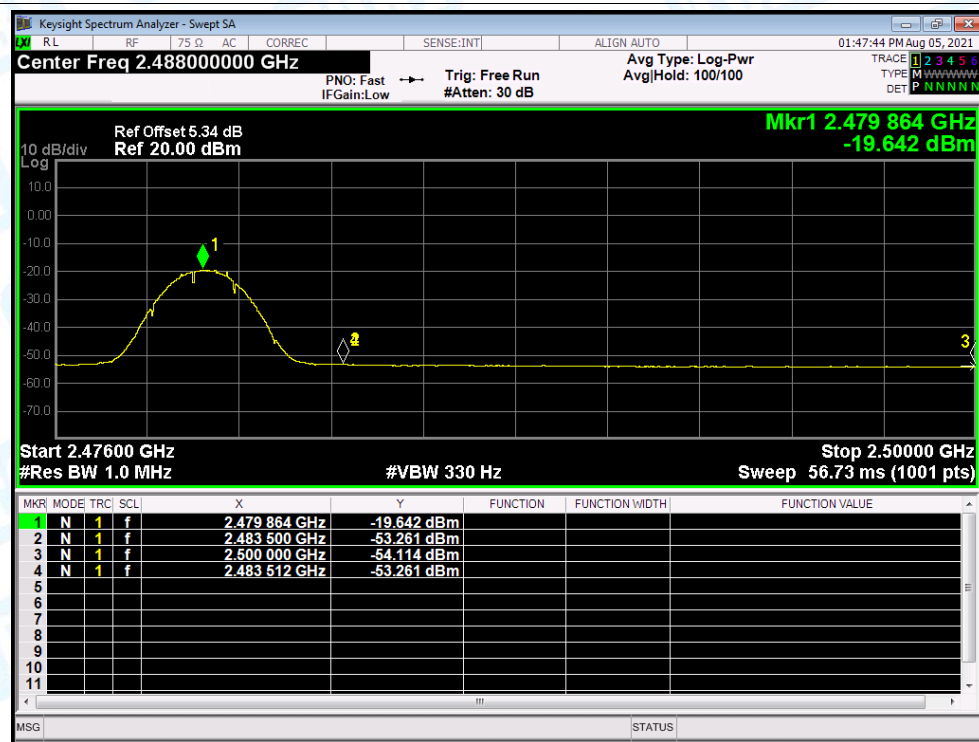
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-44.92	2	52.34	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2310	-55.01	2	42.25	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2337.936	-41.67	2	55.59	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2381.808	-54.32	2	42.94	Average	54	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-46.02	2	51.24	Peak	74	Pass
NVNT	1-DH1	2402	Ant1	No-Hopping	2390	-54.4	2	42.86	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-44.6	2	52.66	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.5	-53.26	2	44	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.584	-41.45	2	55.81	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2483.512	-53.26	2	44	Average	54	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-44.16	2	53.1	Peak	74	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	2500	-54.11	2	43.15	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-44.91	2	52.35	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2310	-55.09	2	42.17	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2383.344	-41.11	2	56.15	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2386.512	-54.31	2	42.95	Average	54	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-44.81	2	52.45	Peak	74	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	2390	-54.49	2	42.77	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-42.98	2	54.28	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.5	-53.49	2	43.77	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2484.016	-41.39	2	55.87	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2483.536	-53.41	2	43.85	Average	54	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-42.98	2	54.28	Peak	74	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	2500	-54.13	2	43.13	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-45.19	2	52.07	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2310	-54.89	2	42.37	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2387.664	-41.51	2	55.75	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2375.376	-54.29	2	42.97	Average	54	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-43.84	2	53.42	Peak	74	Pass
NVNT	3-DH1	2402	Ant1	No-Hopping	2390	-54.48	2	42.78	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-44.27	2	52.99	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.5	-53.42	2	43.84	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2483.56	-41.47	2	55.79	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2484.208	-53.38	2	43.88	Average	54	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-44.97	2	52.29	Peak	74	Pass
NVNT	3-DH1	2480	Ant1	No-Hopping	2500	-54.13	2	43.13	Average	54	Pass



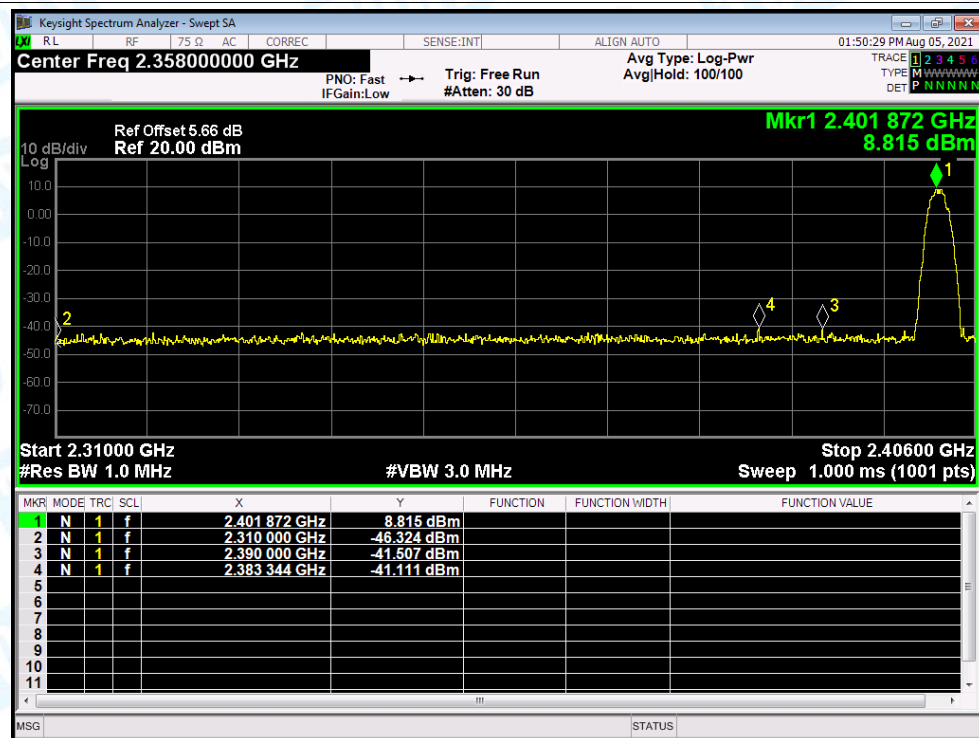
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



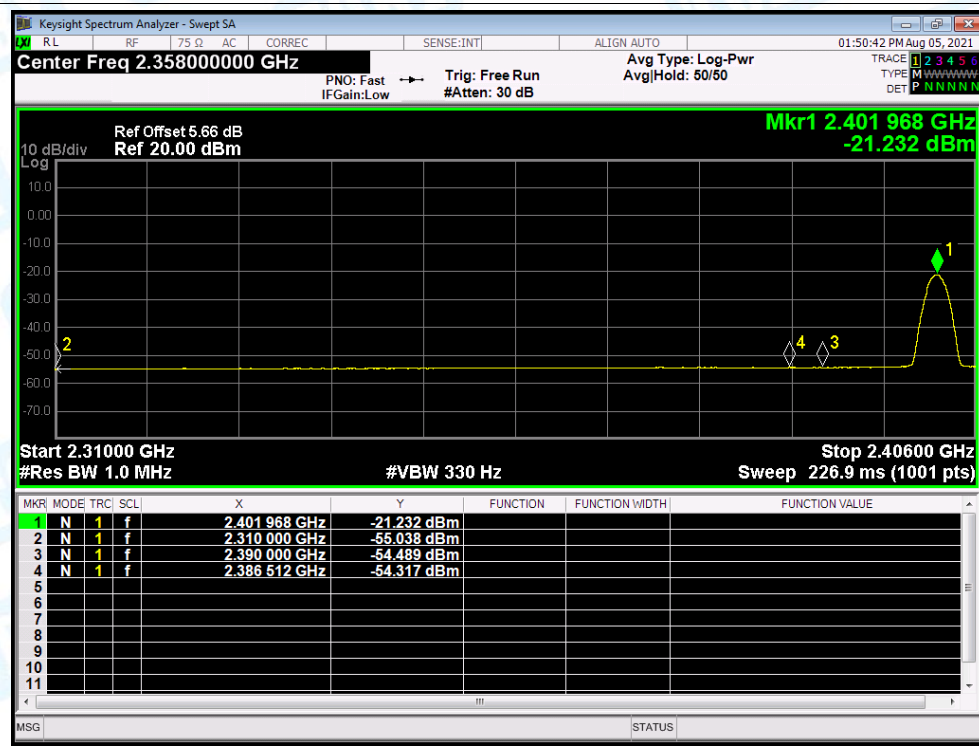
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



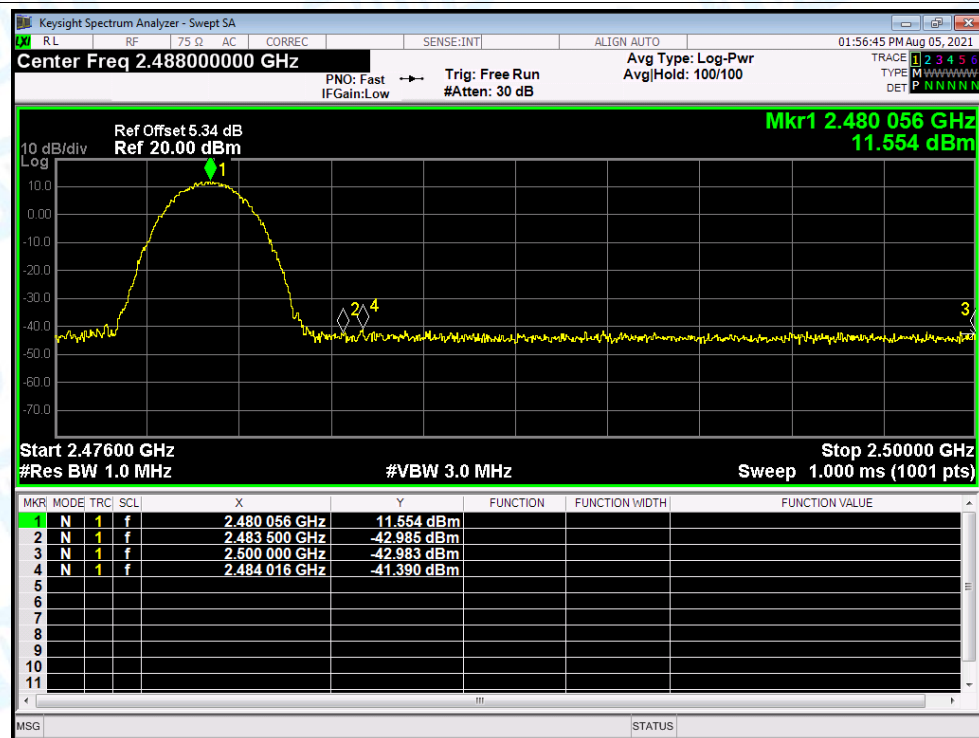
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



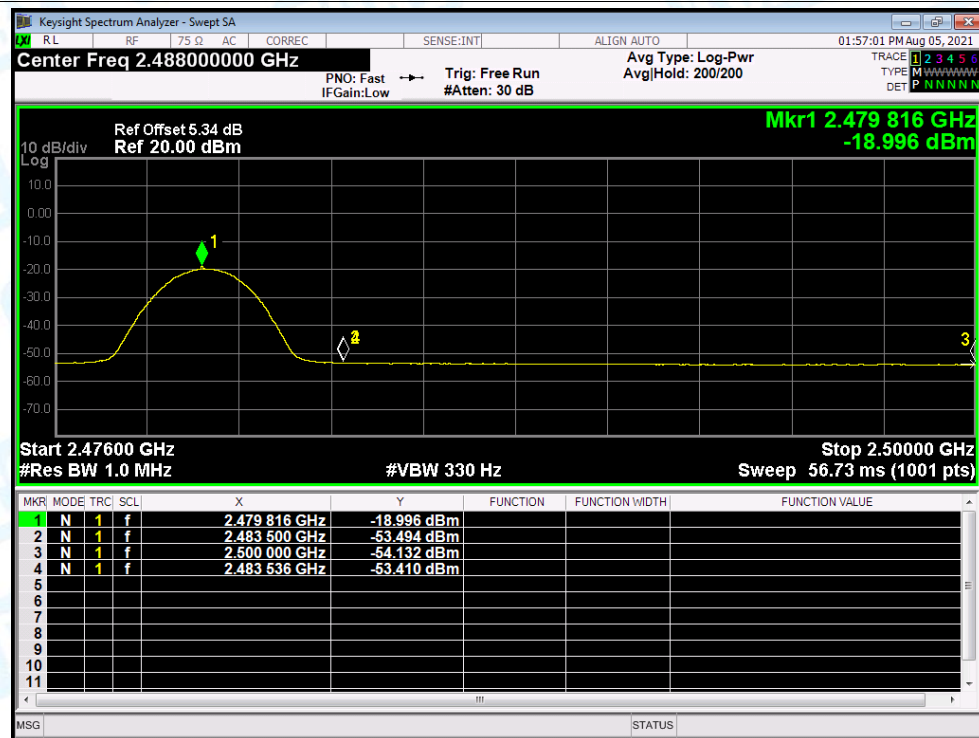
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



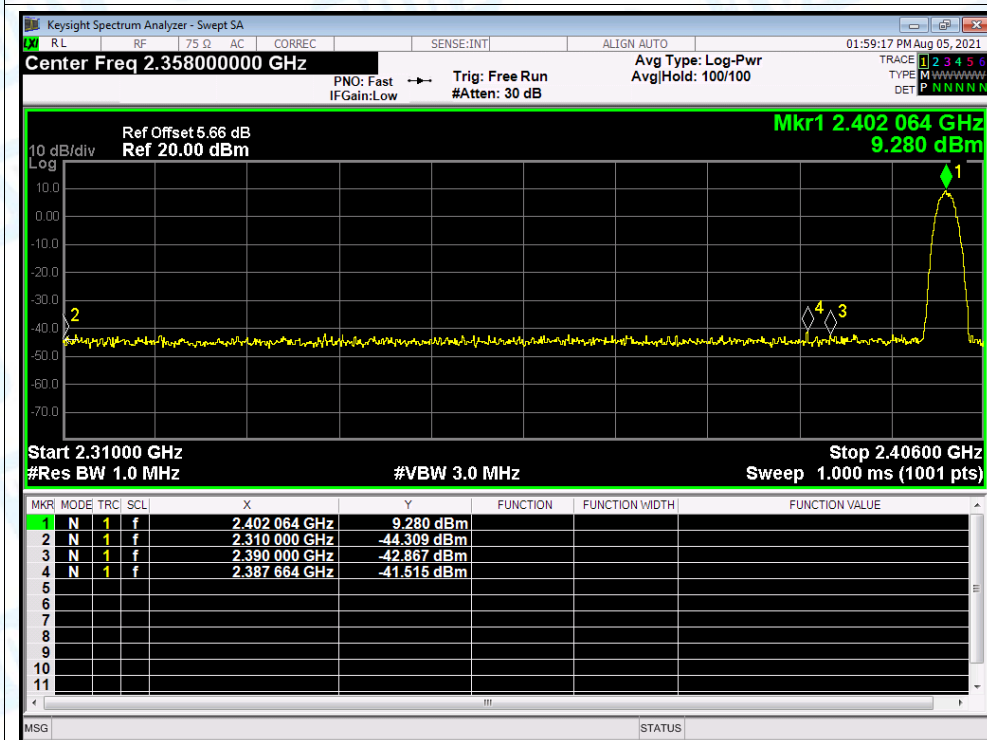
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



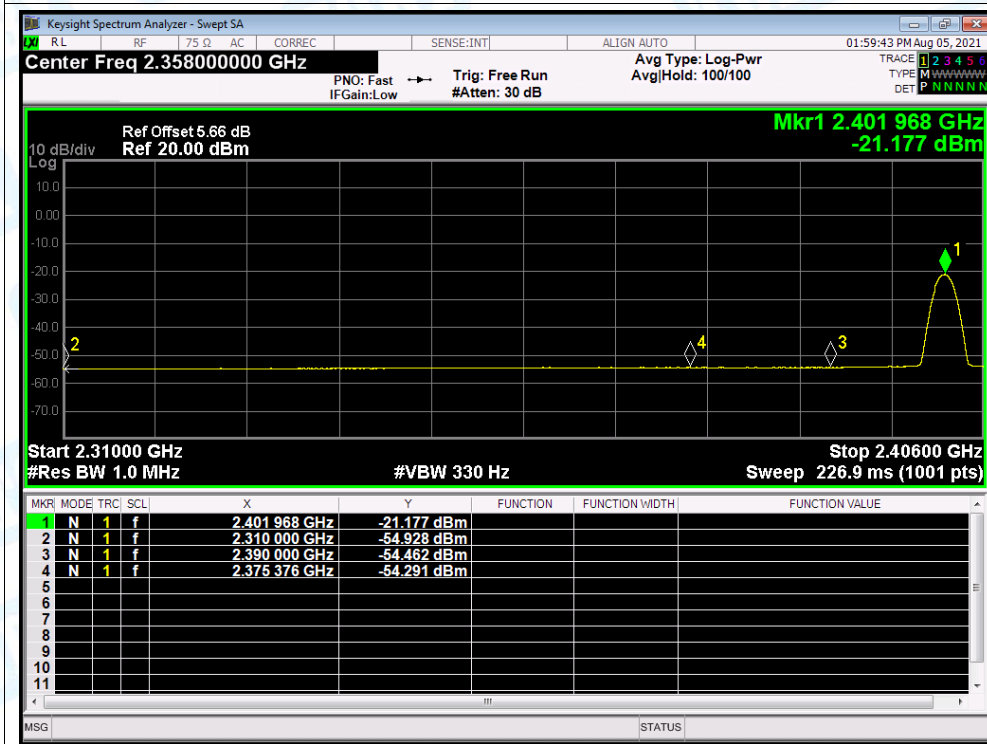
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



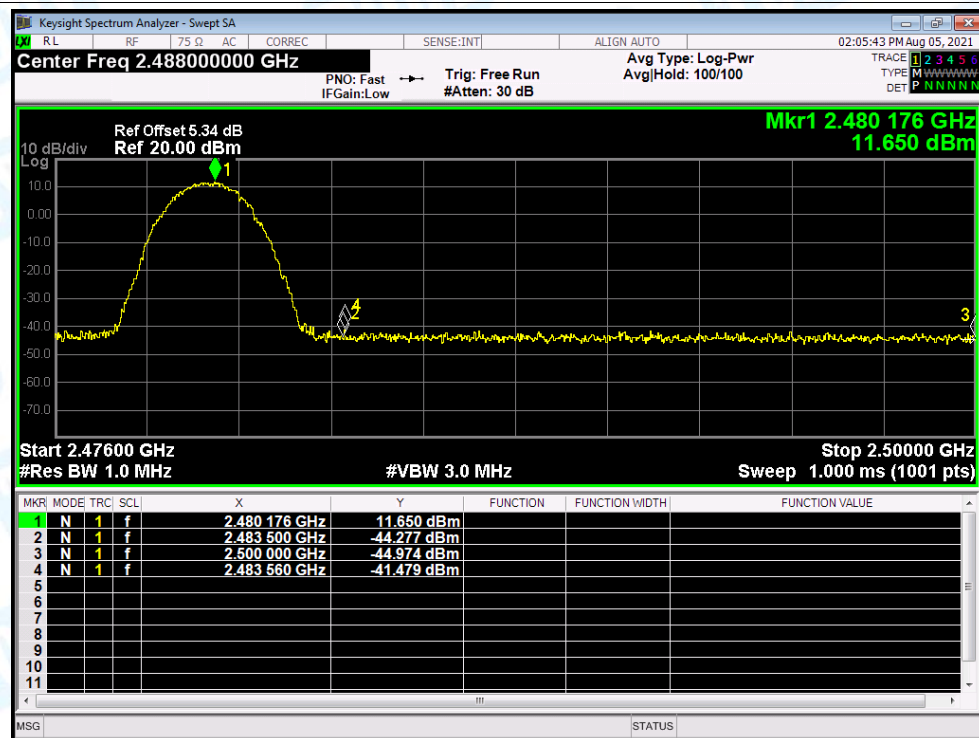
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



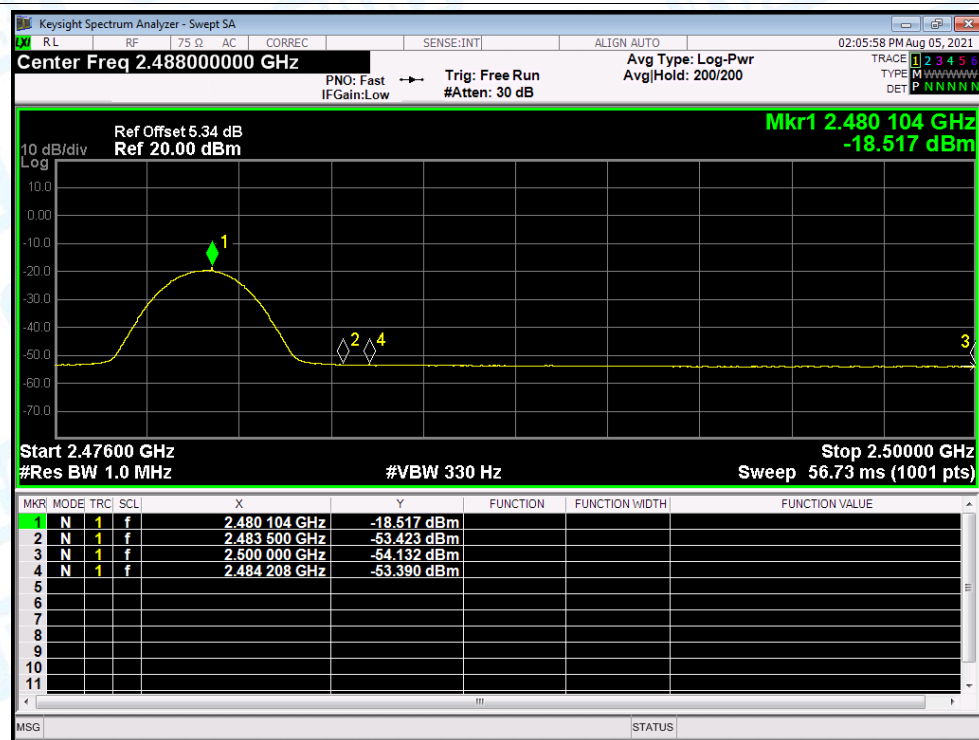
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Average



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



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

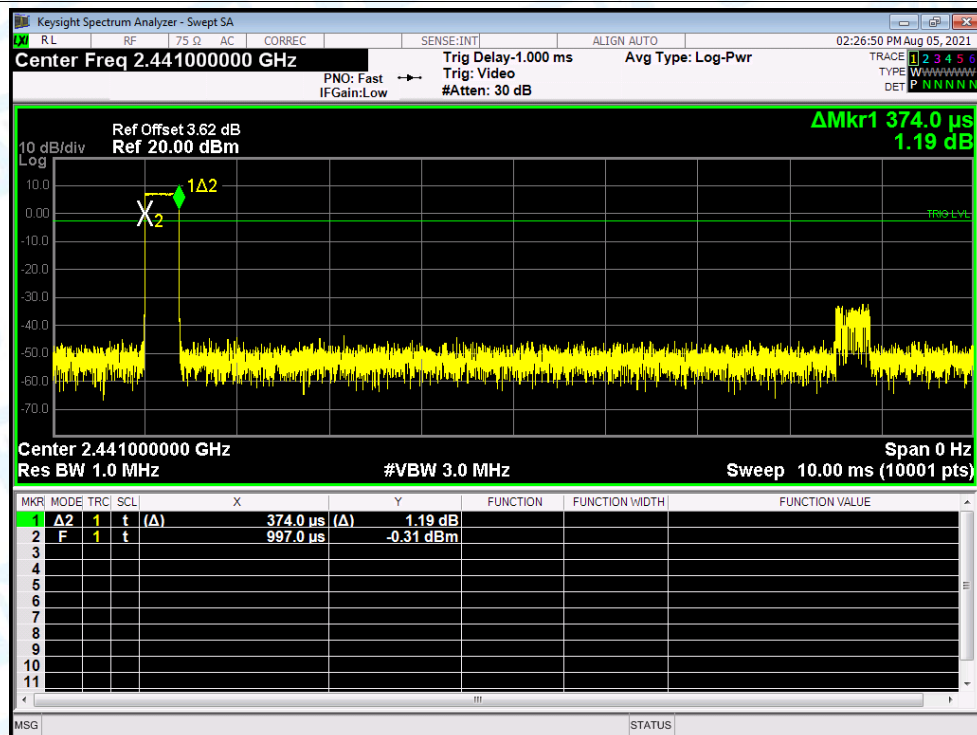


10.Dwell Time

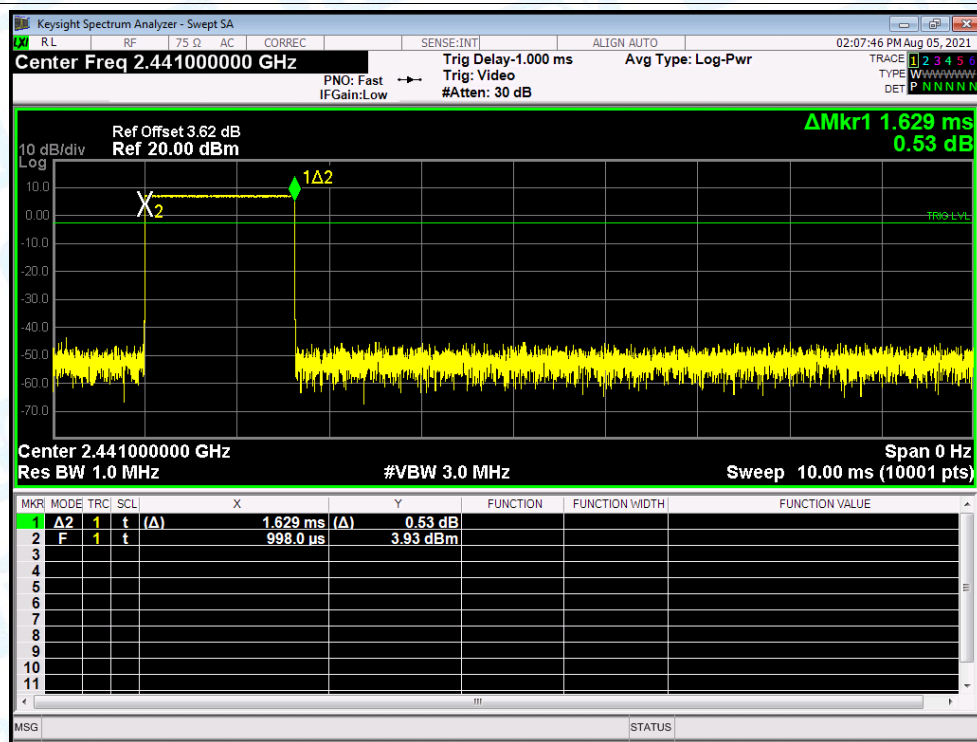
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.374	119.68	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.629	260.64	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.877	306.88	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.374	119.68	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.627	260.32	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.881	307.307	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.374	119.68	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.632	261.12	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.883	307.52	31600	400	Pass

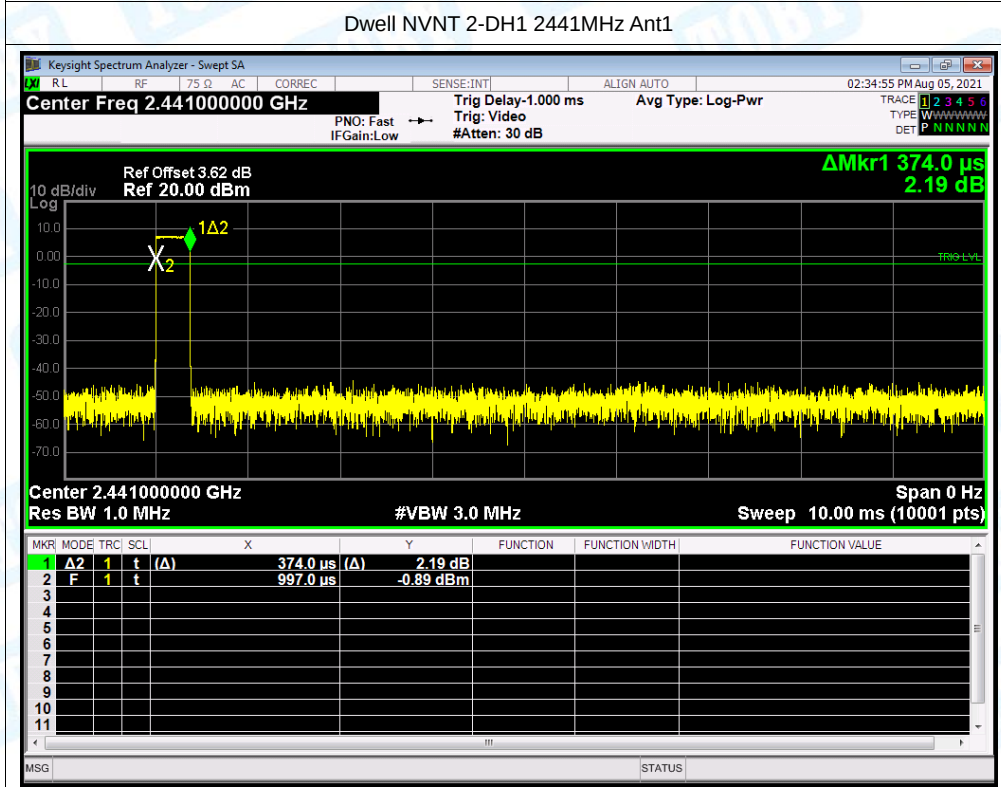
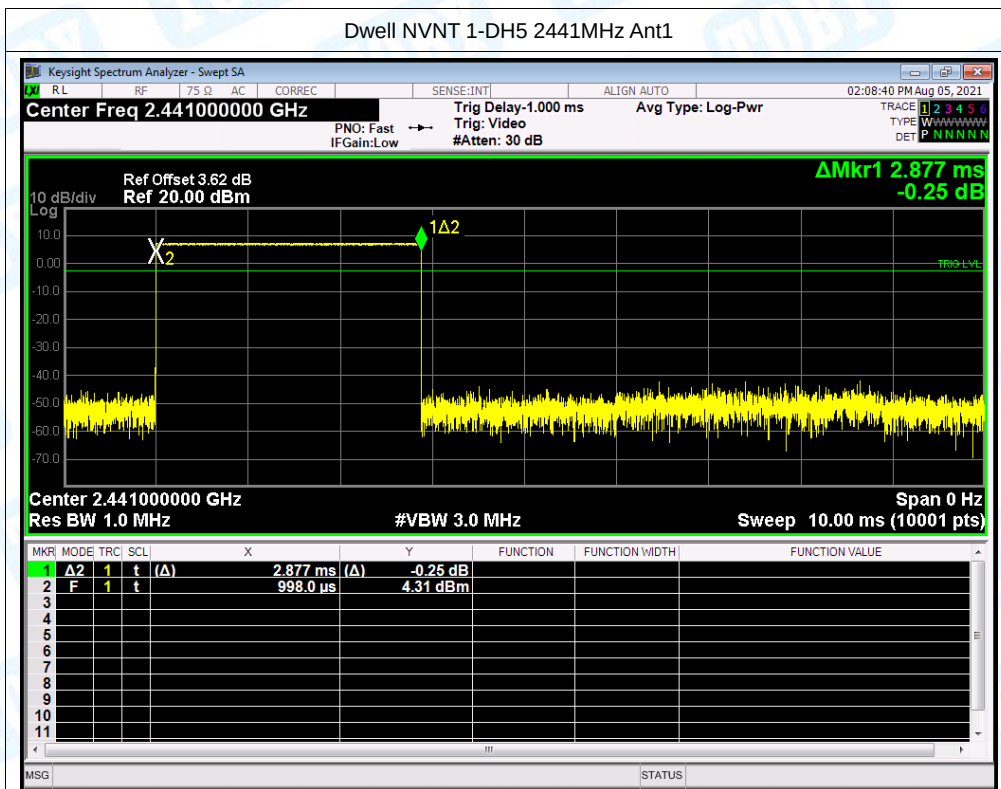
Test Graphs

Dwell NVNT 1-DH1 2441MHz Ant1

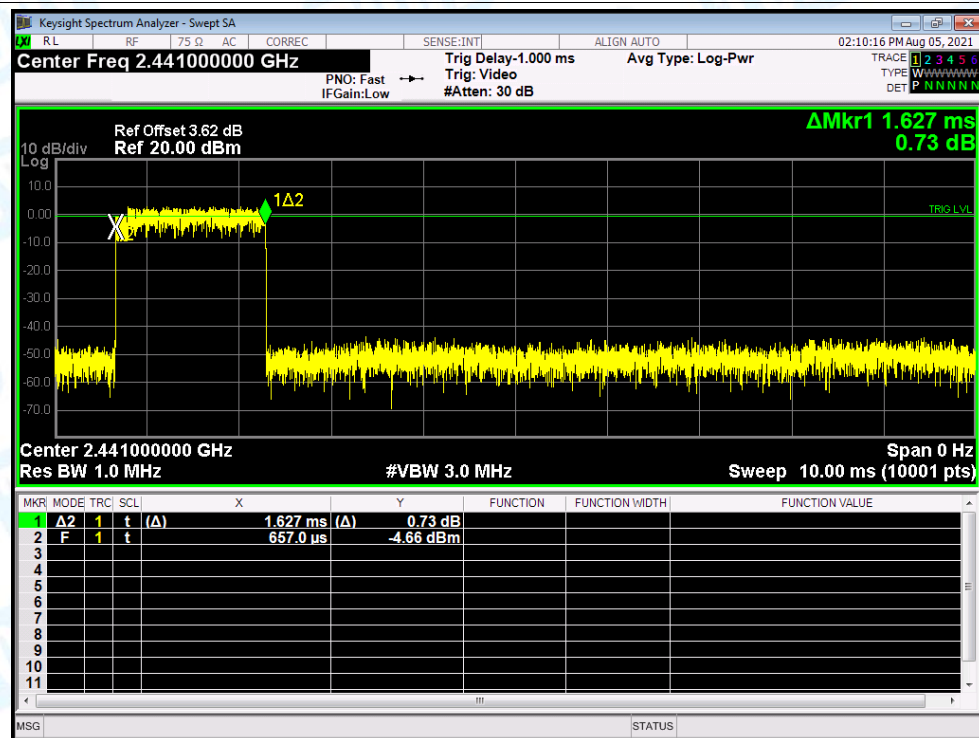


Dwell NVNT 1-DH3 2441MHz Ant1

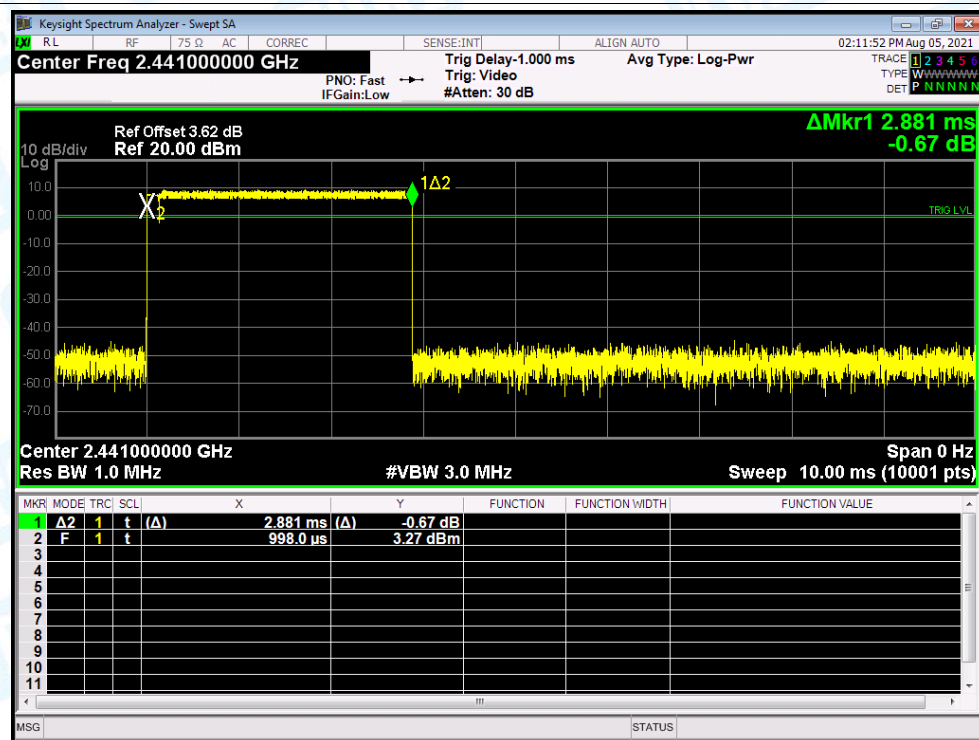




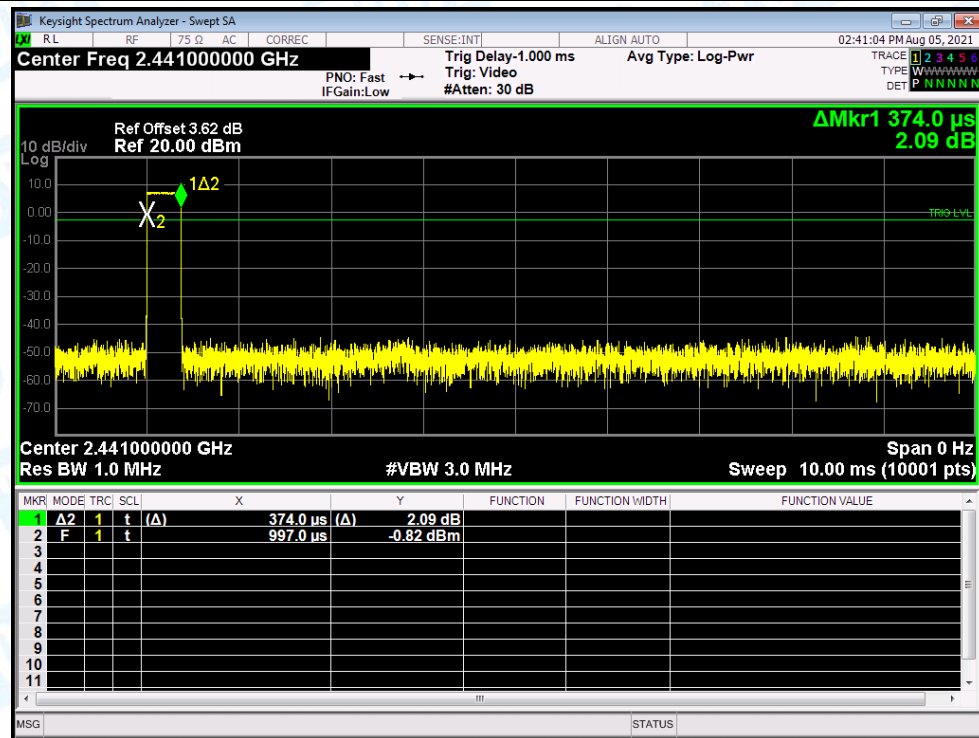
Dwell NVNT 2-DH3 2441MHz Ant1



Dwell NVNT 2-DH5 2441MHz Ant1



Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1

