

AppendixA: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.942	2401.547	2402.489	---	---
DH5	Ant1	2441	0.990	2440.502	2441.492	---	---
DH5	Ant1	2480	0.978	2479.505	2480.483	---	---
2DH5	Ant1	2402	1.299	2401.349	2402.648	---	---
2DH5	Ant1	2441	1.299	2440.349	2441.648	---	---
2DH5	Ant1	2480	1.305	2479.346	2480.651	---	---
3DH5	Ant1	2402	1.284	2401.361	2402.645	---	---
3DH5	Ant1	2441	1.281	2440.364	2441.645	---	---
3DH5	Ant1	2480	1.281	2479.364	2480.645	---	---

Test Graphs



DH5-Ant1-2402



DH5-Ant1-2441



DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441



2DH5-Ant1-2480

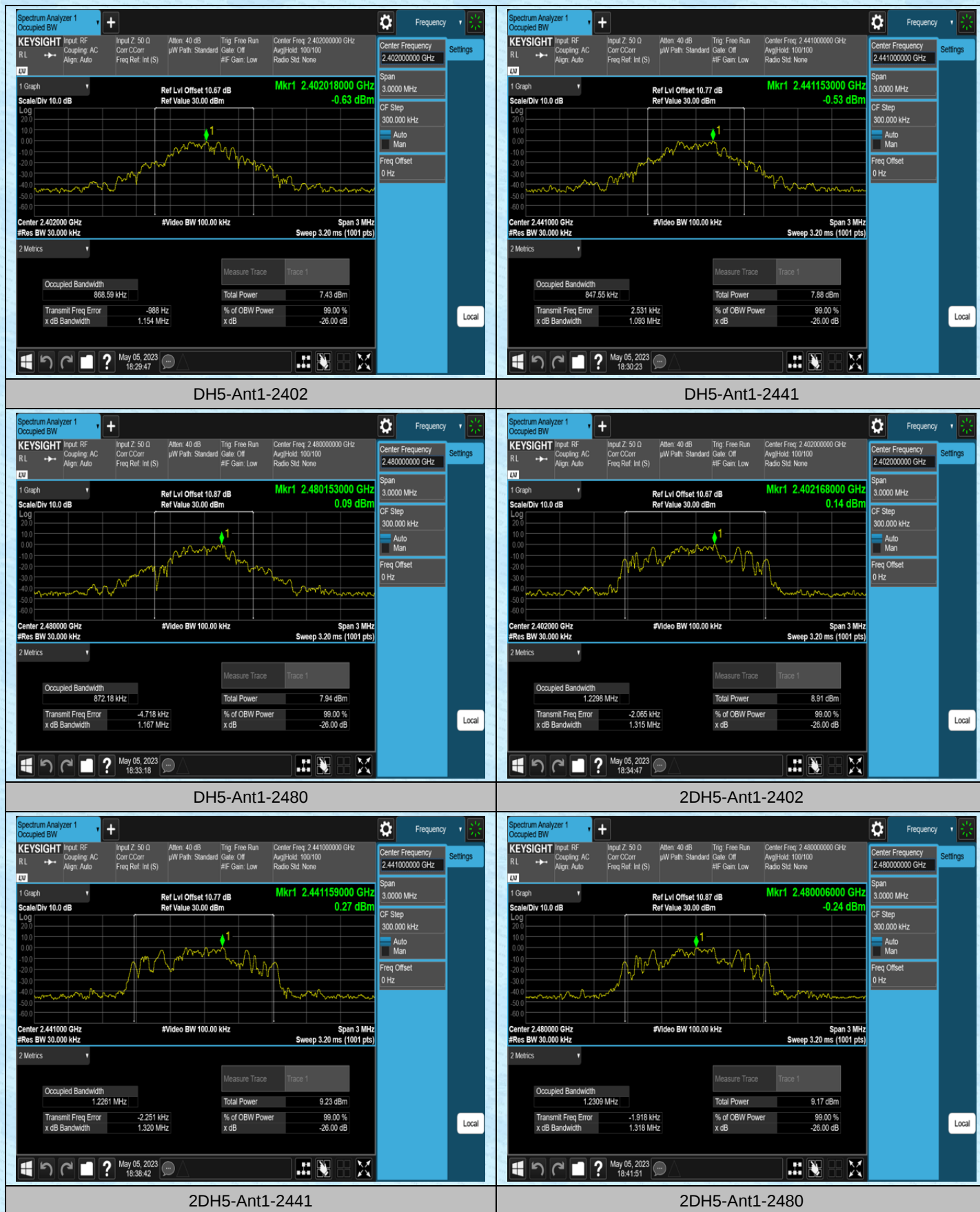


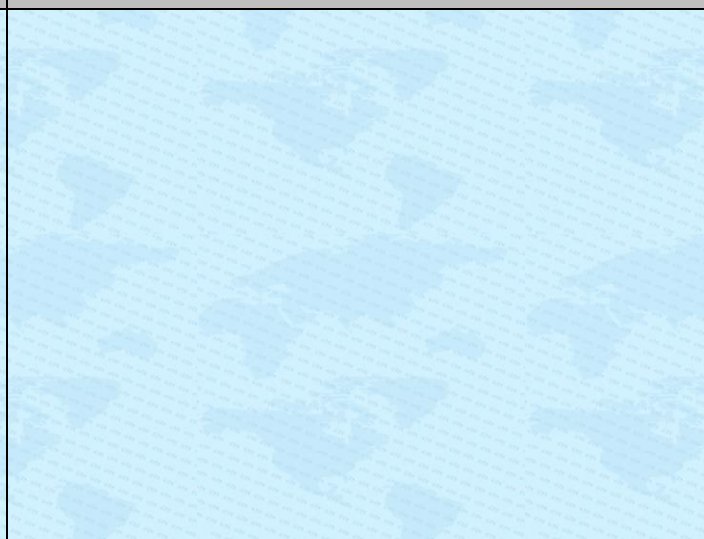
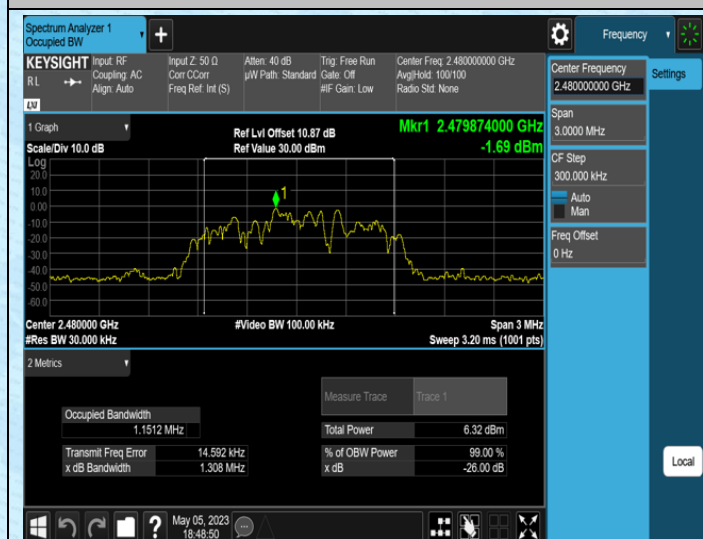
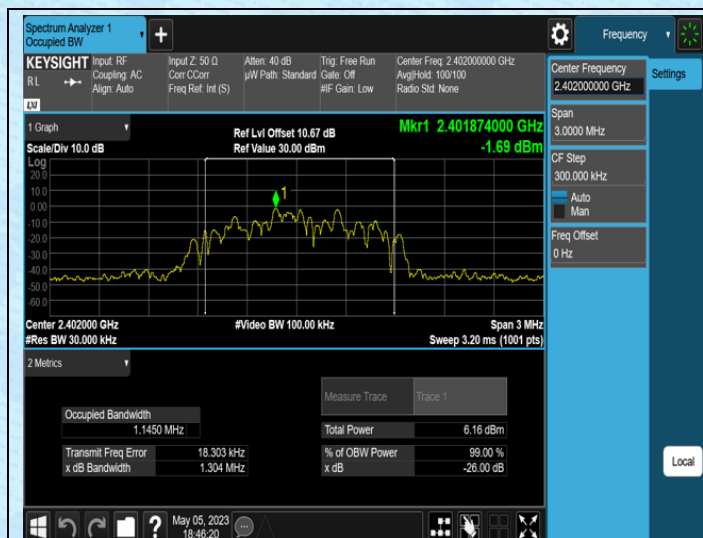
AppendixB: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86859	2401.5647	2402.4333	---	---
DH5	Ant1	2441	0.84755	2440.5788	2441.4263	---	---
DH5	Ant1	2480	0.87218	2479.5592	2480.4314	---	---
2DH5	Ant1	2402	1.2298	2401.3830	2402.6128	---	---
2DH5	Ant1	2441	1.2261	2440.3847	2441.6108	---	---
2DH5	Ant1	2480	1.2309	2479.3826	2480.6135	---	---
3DH5	Ant1	2402	1.1450	2401.4458	2402.5908	---	---
3DH5	Ant1	2441	1.1054	2440.4397	2441.5451	---	---
3DH5	Ant1	2480	1.1512	2479.4390	2480.5902	---	---

Test Graphs





AppendixC: Maximum conducted output power

Test Result

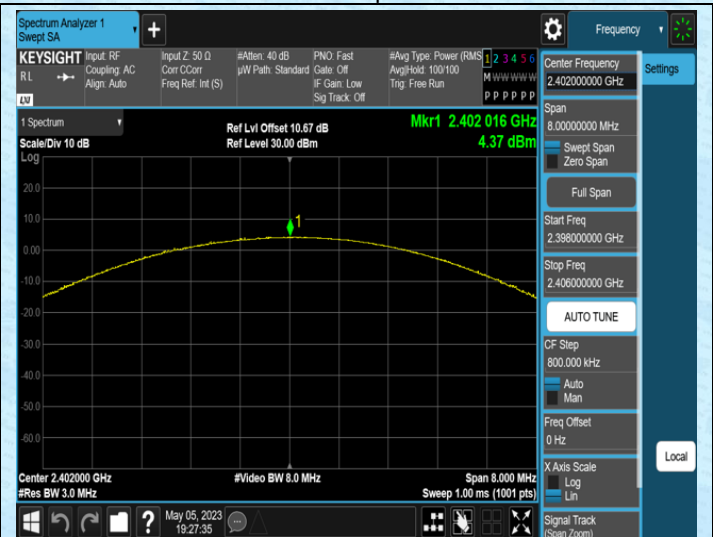
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
DH5	Ant1	2402	2.82	≤30	8.62	≤36	PASS
DH5	Ant1	2441	2.56	≤30	8.36	≤36	PASS
DH5	Ant1	2480	2.73	≤30	8.53	≤36	PASS
2DH5	Ant1	2402	4.37	≤20.97	10.17	≤36	PASS
2DH5	Ant1	2441	4.54	≤20.97	10.34	≤36	PASS
2DH5	Ant1	2480	4.5	≤20.97	10.30	≤36	PASS
3DH5	Ant1	2402	5.67	≤20.97	11.47	≤36	PASS
3DH5	Ant1	2441	5.34	≤20.97	11.14	≤36	PASS
3DH5	Ant1	2480	5.5	≤20.97	11.30	≤36	PASS

Test Graphs

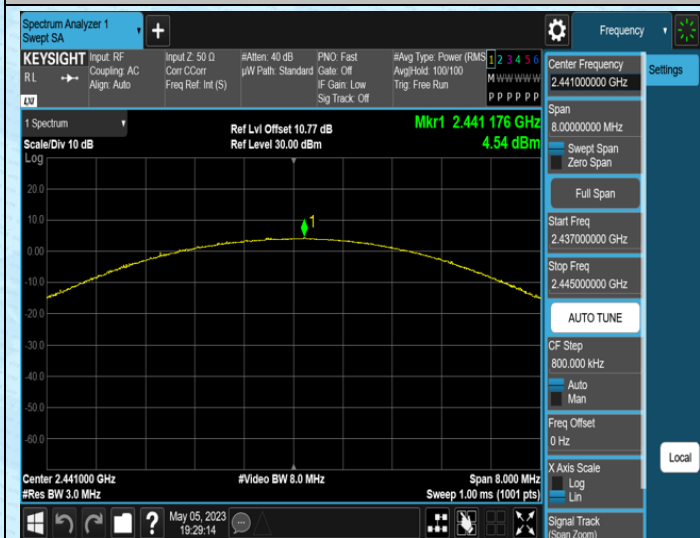




DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441



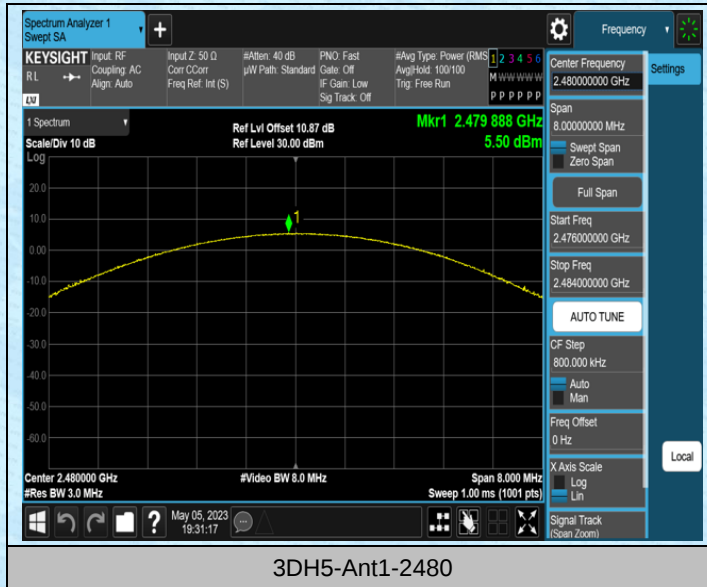
2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441

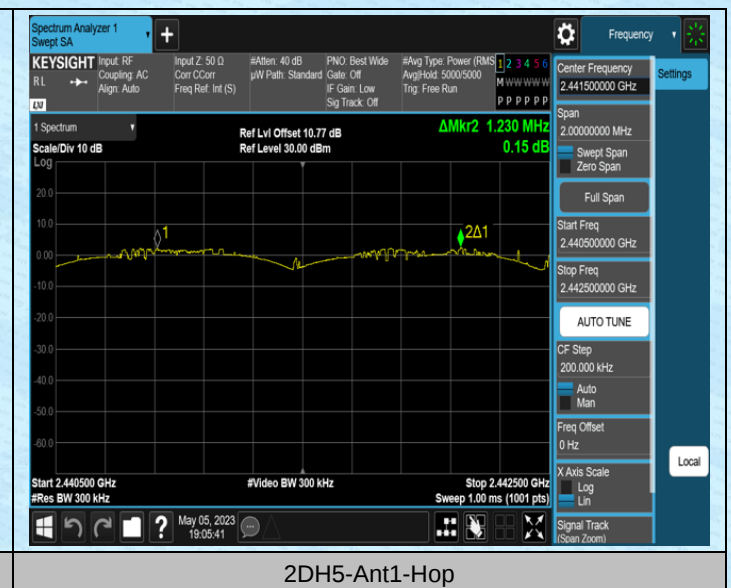
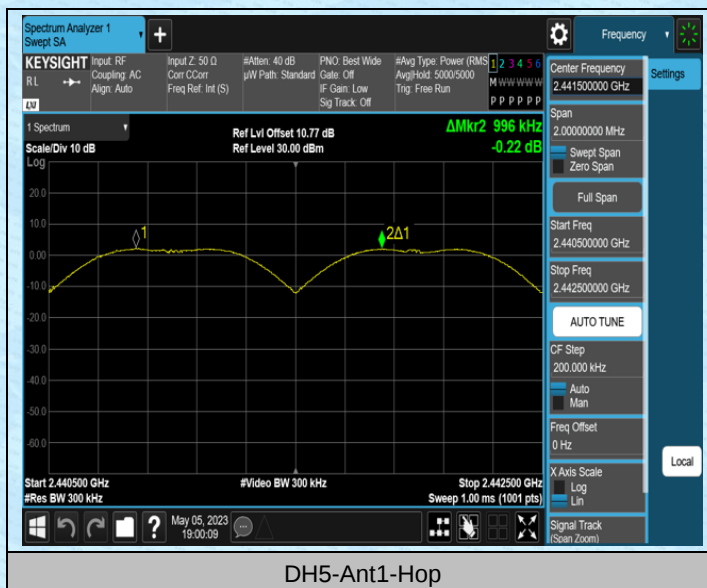


AppendixD: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.996	≥ 0.990	PASS
2DH5	Ant1	Hop	1.23	≥ 0.870	PASS
3DH5	Ant1	Hop	1.124	≥ 0.856	PASS

Test Graphs





3DH5-Ant1-Hop

AppendixE: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.880	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.884	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.885	106.67	0.308	≤0.4	PASS
DH1	Ant1	Hop	0.377	320	0.121	≤0.4	PASS
2DH1	Ant1	Hop	0.384	320	0.123	≤0.4	PASS
3DH1	Ant1	Hop	0.385	320	0.123	≤0.4	PASS
DH3	Ant1	Hop	1.631	160	0.261	≤0.4	PASS
2DH3	Ant1	Hop	1.635	160	0.262	≤0.4	PASS
3DH3	Ant1	Hop	1.635	160	0.262	≤0.4	PASS

Note:

DH5/2DH5/3DH5: TotalHops=1600/79/6*0.4*79

DH5/2DH5/3DH5: Time of occupancy= TotalHops * (BurstWidth) /1000

DH3/2DH3/3DH3: TotalHops=1600/79/4*0.4*79

DH3/2DH3/3DH3: Time of occupancy= TotalHops * (BurstWidth) /1000

DH1/2DH1/3DH1: TotalHops=1600/79/2*0.4*79

DH1/2DH1/3DH1: Time of occupancy= TotalHops * (BurstWidth) /1000

Test Graphs



DH5-Ant1-Hop



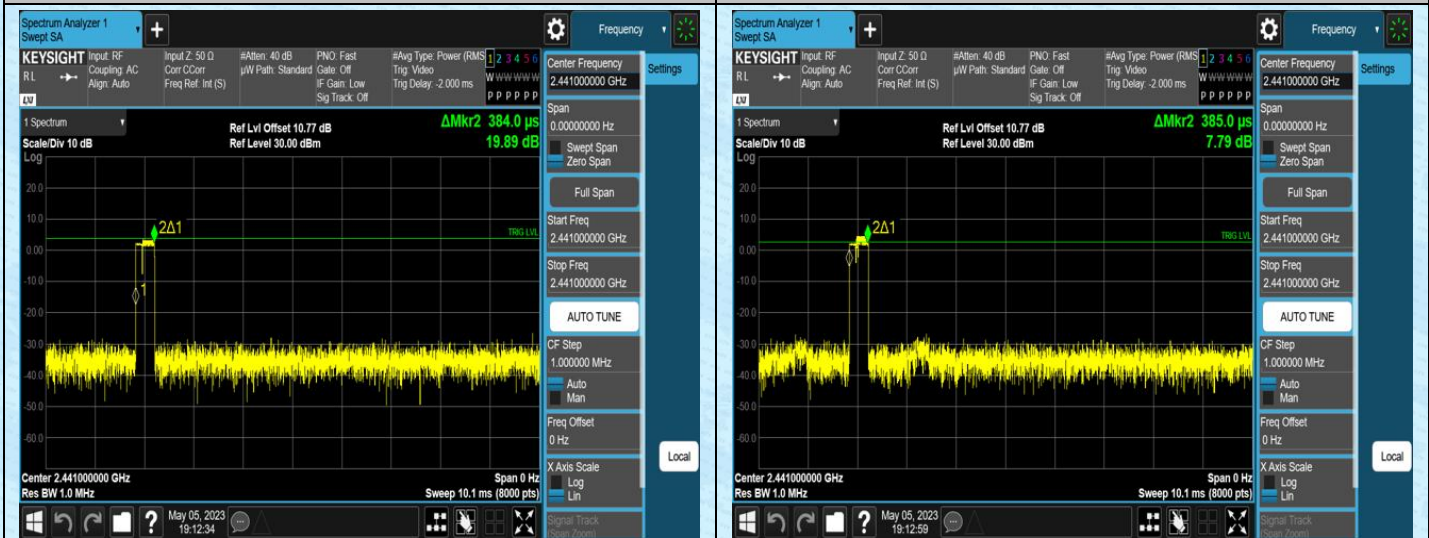
2DH5-Ant1-Hop



3DH5-Ant1-Hop

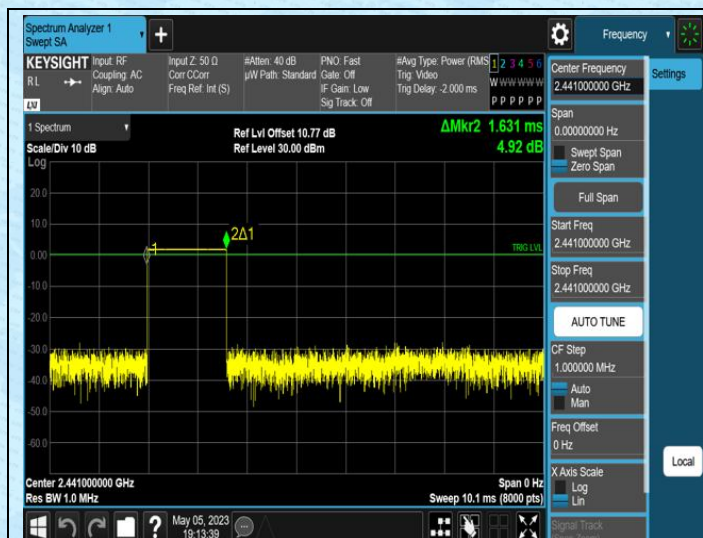


DH1-Ant1-Hop

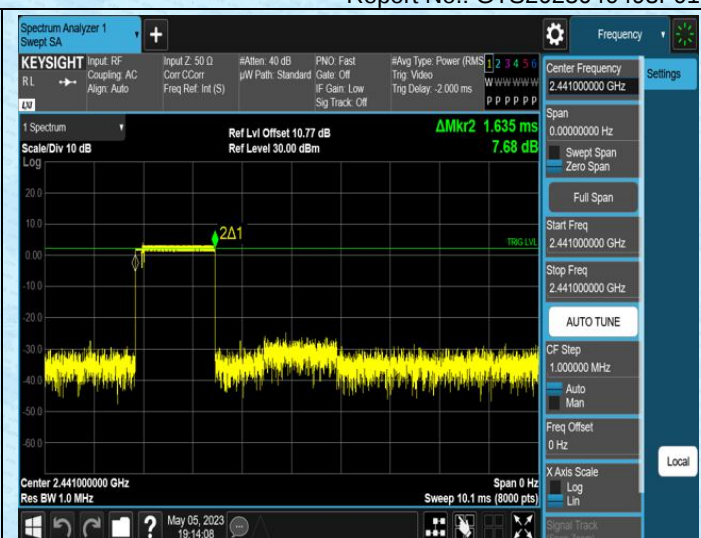


2DH1-Ant1-Hop

3DH1-Ant1-Hop



DH3-Ant1-Hop



2DH3-Ant1-Hop



3DH3-Ant1-Hop

Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

The figure displays four screenshots of a Spectrum Analyzer interface, each showing the frequency response of a different antenna configuration. The interface includes a top control bar with settings for Input, Attenuation, PNO, and Power. The main display area shows a spectrum plot with a flat signal at 0 dBm across the 2.4 GHz to 2.4835 GHz range. The x-axis is labeled 'Start 2.40000 GHz' and 'Stop 2.48350 GHz'. The y-axis is labeled 'Scale/Div 10 dB' and 'Ref Level 30.00 dBm'. The right side of the interface shows a 'Settings' panel with options for Span, Start Freq, Stop Freq, CF Step, Freq Offset, and X Axis Scale. The bottom status bar shows the date and time.

The four antenna configurations are:

- DH5-Ant1-Hop**: Shows a flat signal at 0 dBm across the 2.4 GHz to 2.4835 GHz range.
- 2DH5-Ant1-Hop**: Shows a flat signal at 0 dBm across the 2.4 GHz to 2.4835 GHz range.
- 3DH5-Ant1-Hop**: Shows a flat signal at 0 dBm across the 2.4 GHz to 2.4835 GHz range.
- 4DH5-Ant1-Hop**: Shows a flat signal at 0 dBm across the 2.4 GHz to 2.4835 GHz range.

AppendixG:Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	3.70	-43.76	≤-16.3	PASS
DH5	Ant1	High	2480	2.87	-42.99	≤-17.13	PASS
2DH5	Ant1	Low	2402	2.68	-43.85	≤-17.32	PASS
2DH5	Ant1	High	2480	1.85	-42.33	≤-18.15	PASS
3DH5	Ant1	Low	2402	1.65	-45.08	≤-18.35	PASS
3DH5	Ant1	High	2480	-1.31	-43.74	≤-21.31	PASS
DH5	Ant1	Low	Hop_2402	-2.15	-47.56	≤-22.15	PASS
DH5	Ant1	High	Hop_2480	1.24	-46.73	≤-18.76	PASS
2DH5	Ant1	Low	Hop_2402	-2.88	-47.33	≤-22.88	PASS
2DH5	Ant1	High	Hop_2480	-0.85	-46.39	≤-20.85	PASS
3DH5	Ant1	Low	Hop_2402	-1.80	-47.67	≤-21.8	PASS
3DH5	Ant1	High	Hop_2480	1.86	-46.4	≤-18.14	PASS

Test Graphs

