



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Bluetooth speaker

Test Model: FLS-164

Environmental Conditions

Temperature:	22.5° C
Relative Humidity:	53.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan

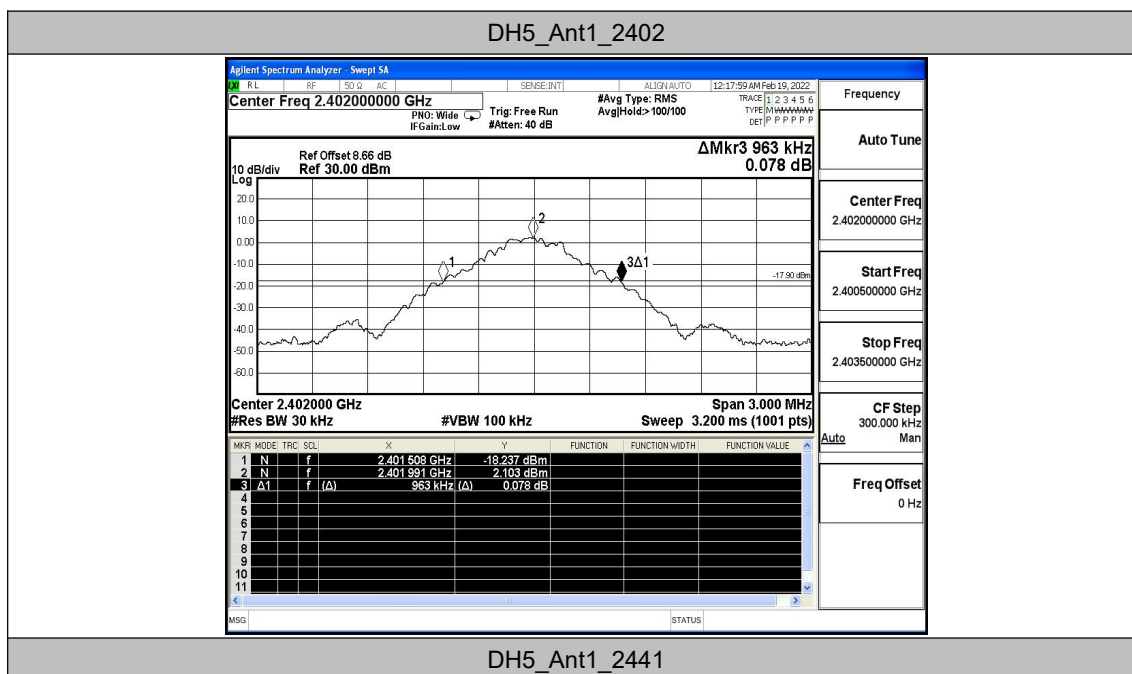


A.1 20dB Emission Bandwidth

Test Result

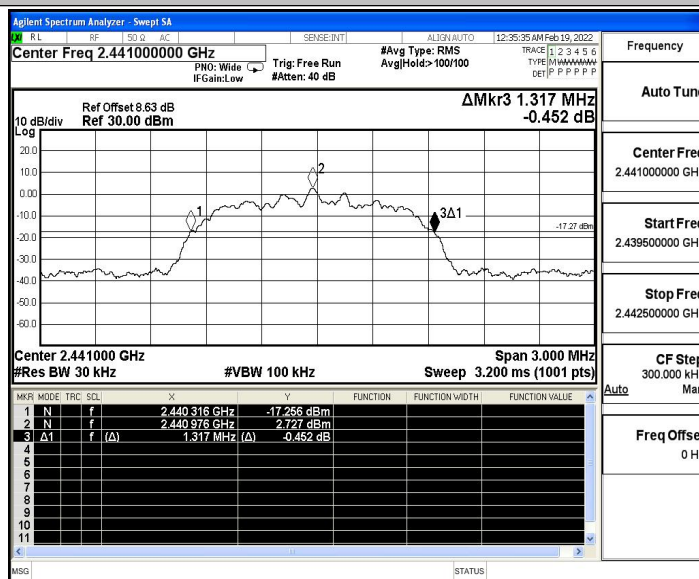
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.963	2401.508	2402.471	---	---
		2441	0.963	2440.508	2441.471	---	---
		2480	0.951	2479.514	2480.465	---	---
2DH5	Ant1	2402	1.353	2401.301	2402.654	---	---
		2441	1.317	2440.316	2441.633	---	---
		2480	1.317	2479.313	2480.630	---	---

Test Graphs

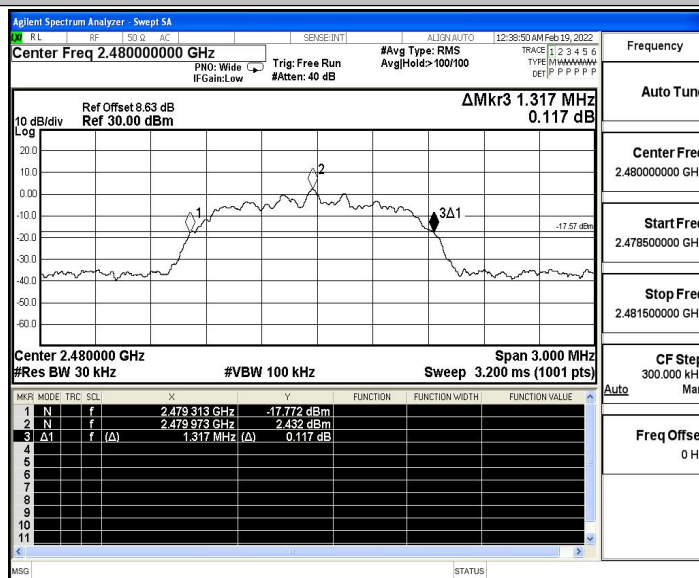




2DH5_Ant1_2441



2DH5_Ant1_2480



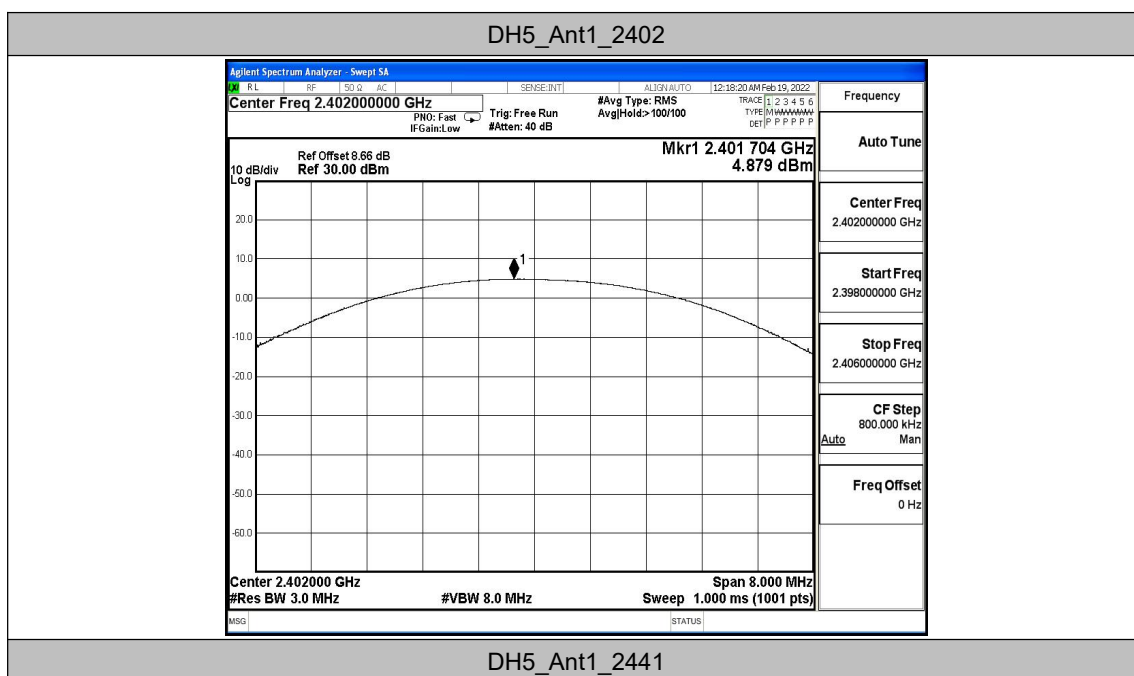


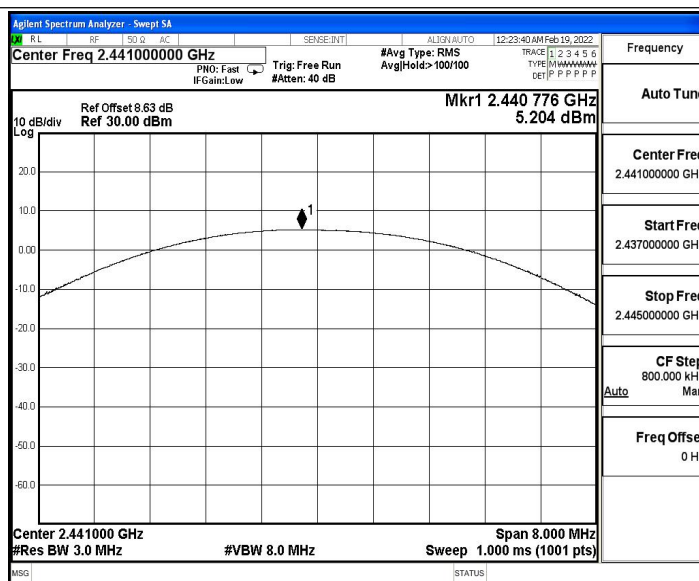
A.2 Maximum conducted output power

Test Result

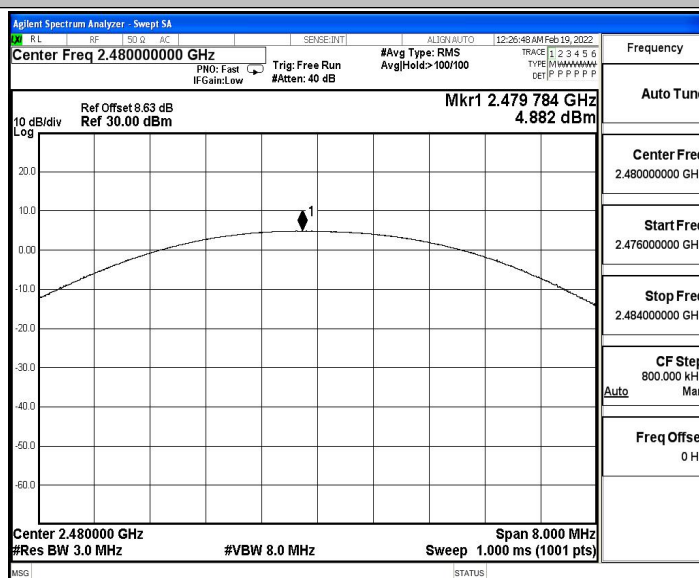
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	4.88	≤20.97	PASS
		2441	5.2	≤20.97	PASS
		2480	4.88	≤20.97	PASS
2DH5	Ant1	2402	5.59	≤20.97	PASS
		2441	5.87	≤20.97	PASS
		2480	5.53	≤20.97	PASS

Test Graphs

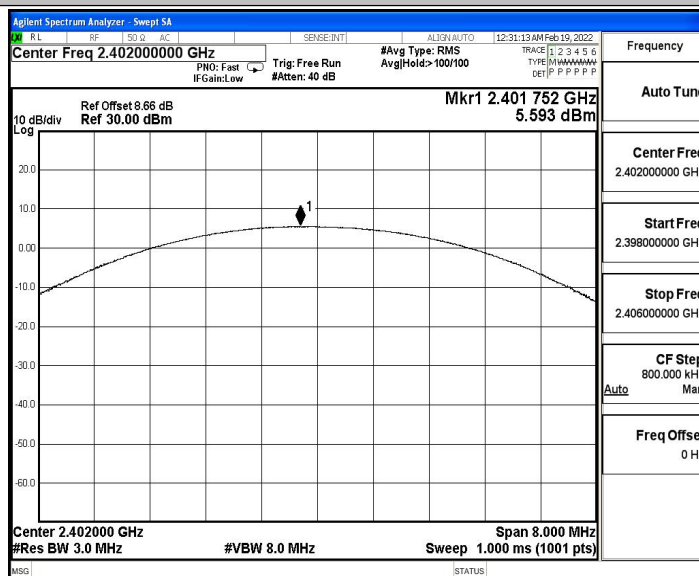




DH5_Ant1_2480

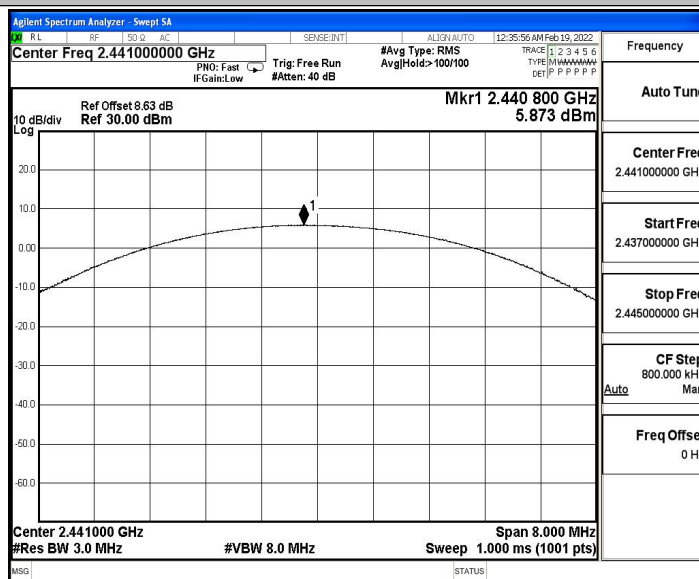


2DH5_Ant1_2402

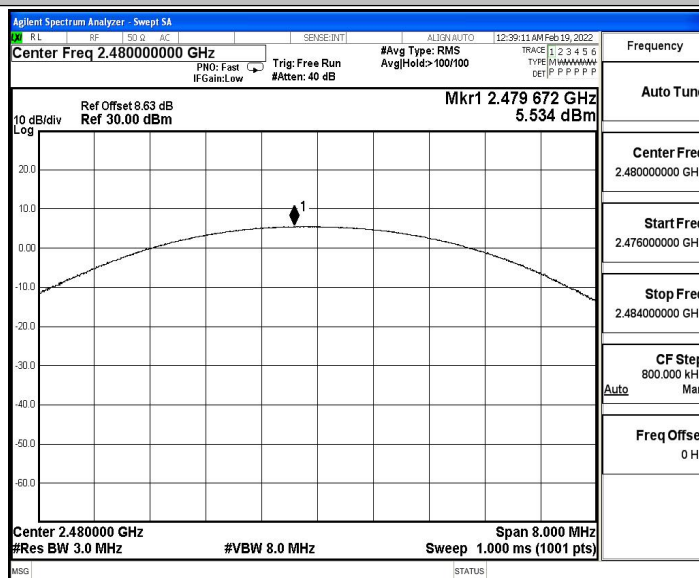




2DH5_Ant1_2441



2DH5_Ant1_2480





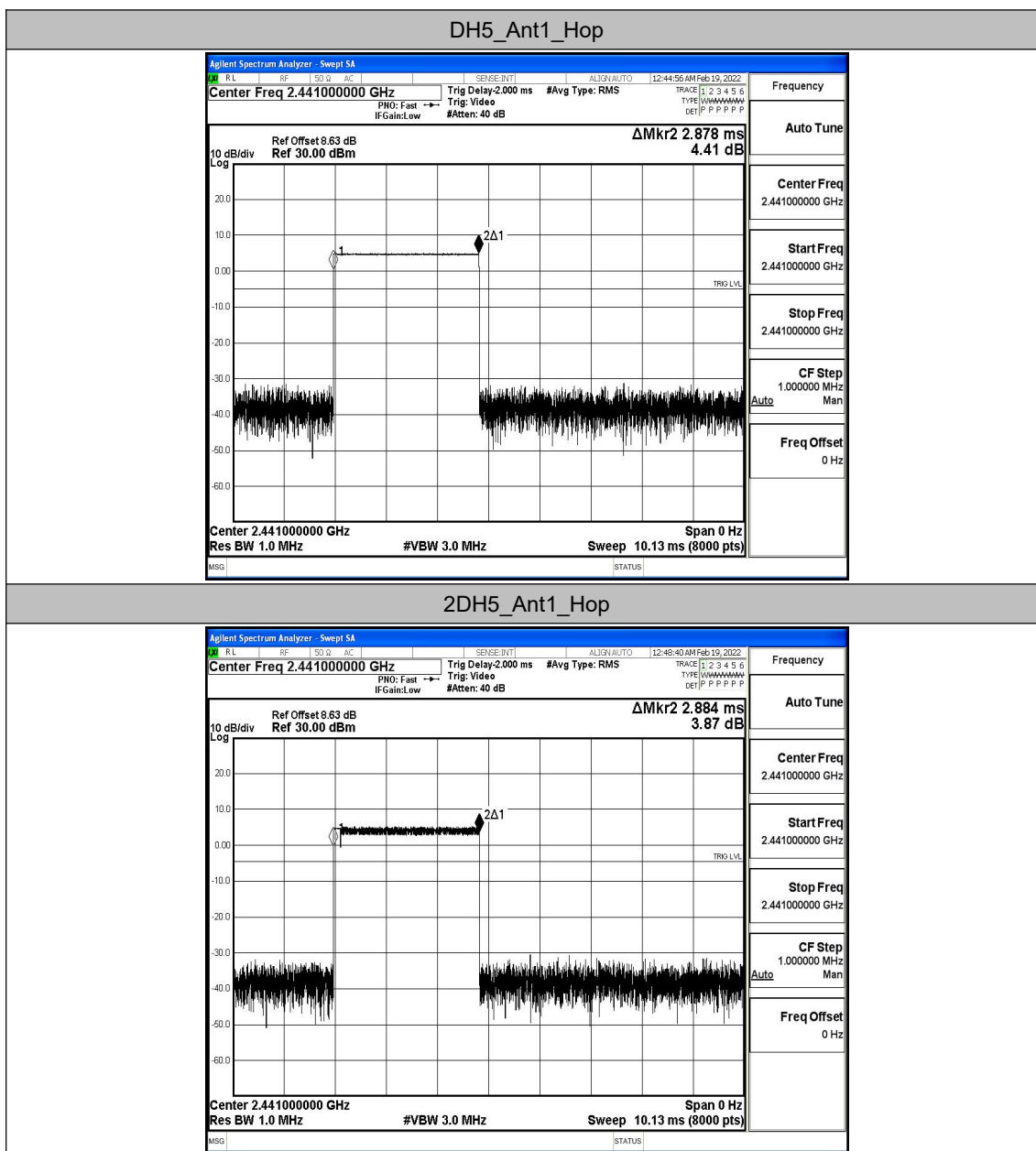


A.4 Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.88	106.67	0.308	≤0.4	PASS

Test Graphs



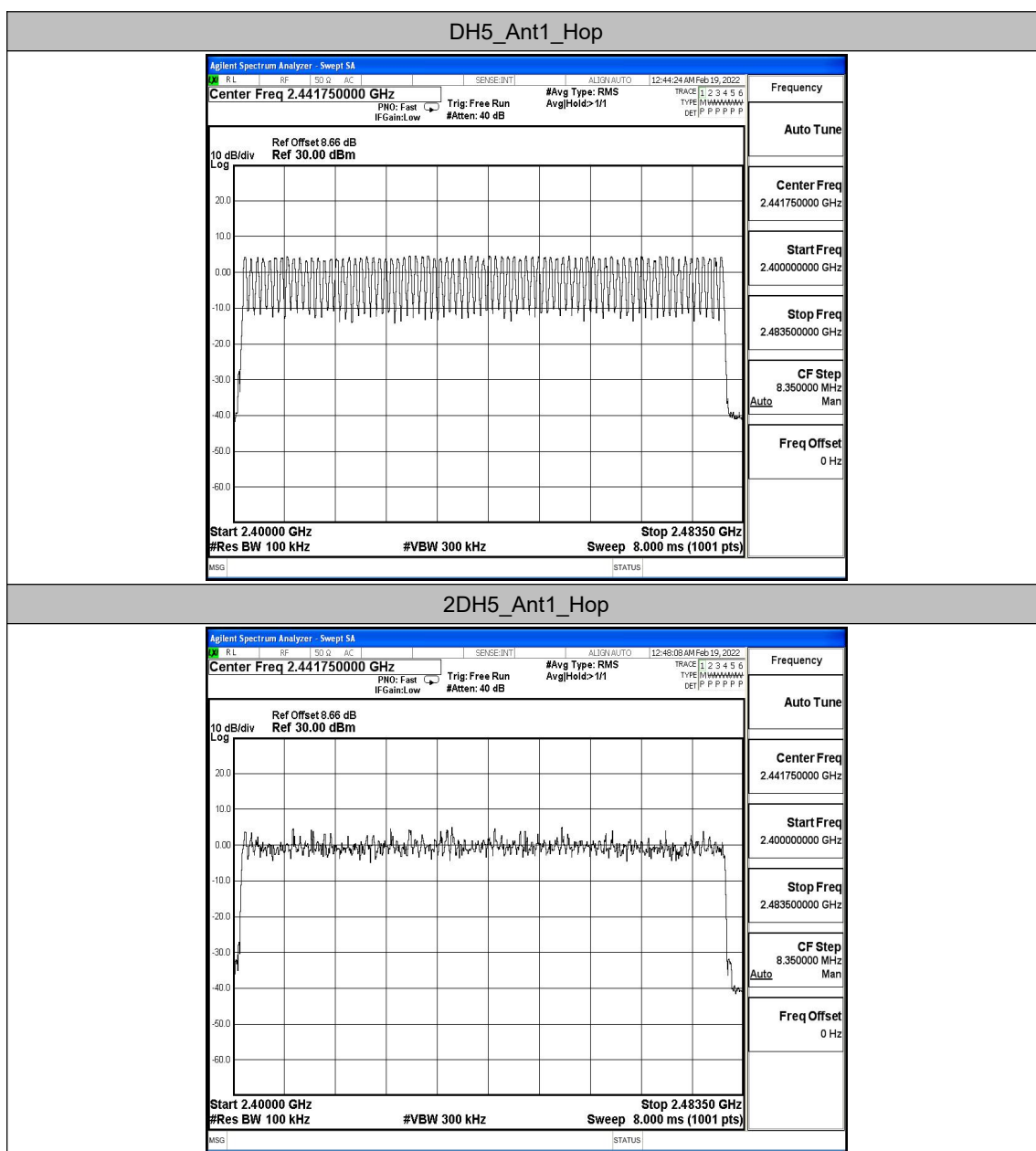


A.5 Number of hopping channels

Test Result

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

Test Graphs



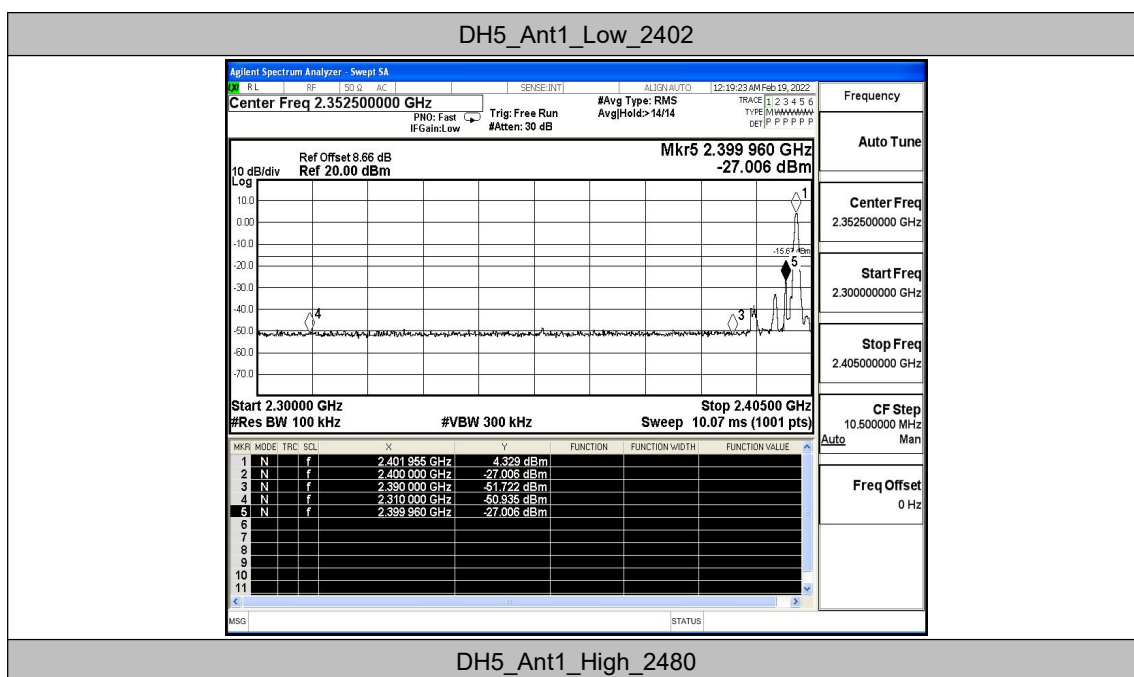


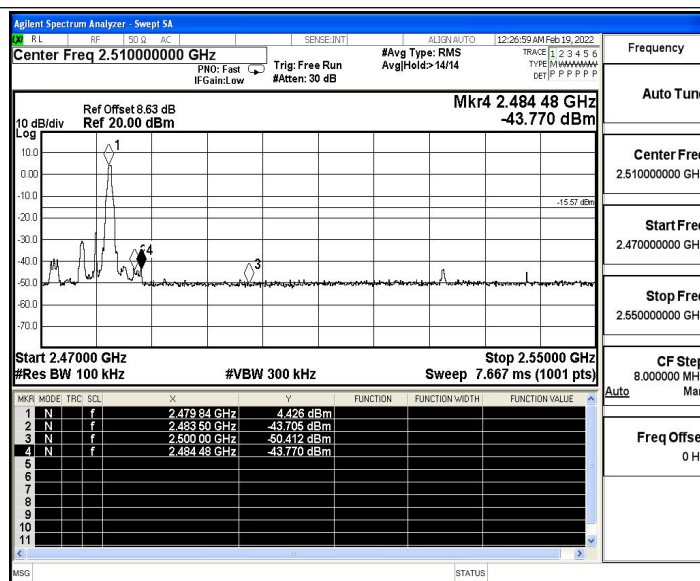
A.6 Band edge measurements

Test Result

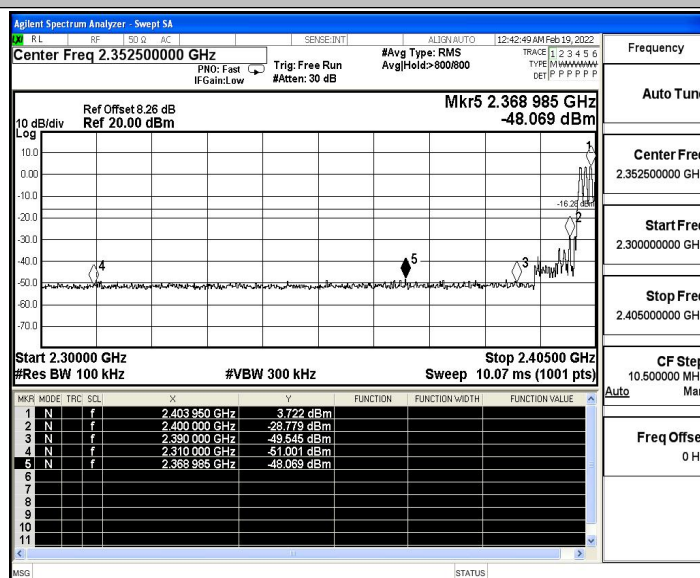
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	4.33	-27.01	≤-15.67	PASS
		High	2480	4.43	-43.77	≤-15.57	PASS
		Low	Hop_2402	3.72	-48.07	≤-16.28	PASS
		High	Hop_2480	4.28	-44.11	≤-15.72	PASS
2DH5	Ant1	Low	2402	3.99	-27.26	≤-16.01	PASS
		High	2480	4.27	-44.67	≤-15.73	PASS
		Low	Hop_2402	2.26	-48.91	≤-17.74	PASS
		High	Hop_2480	4.18	-45.07	≤-15.82	PASS

Test Graphs

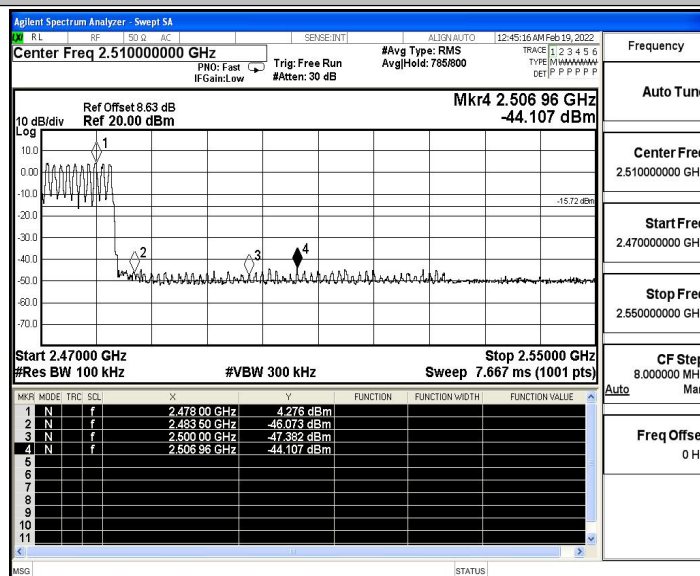




DH5_Ant1_Low_Hop_2402

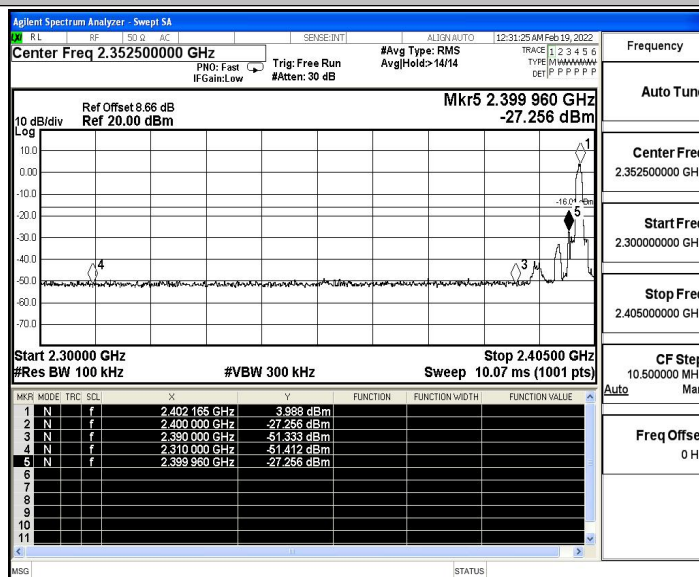


DH5_Ant1_High_Hop_2480

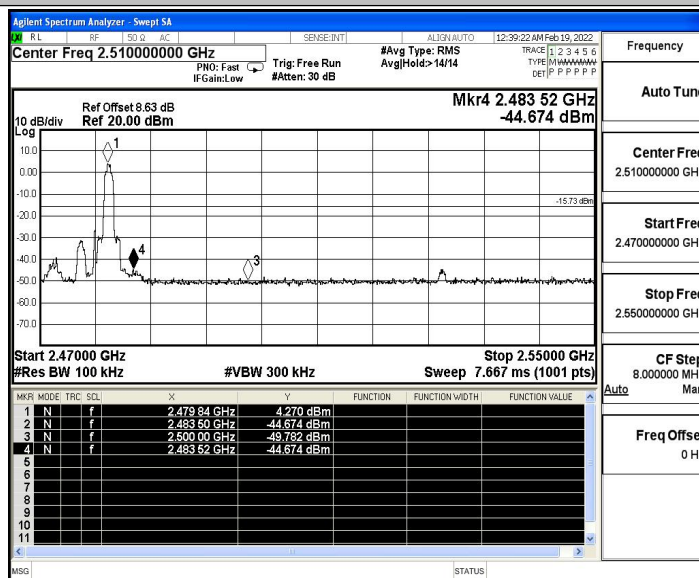




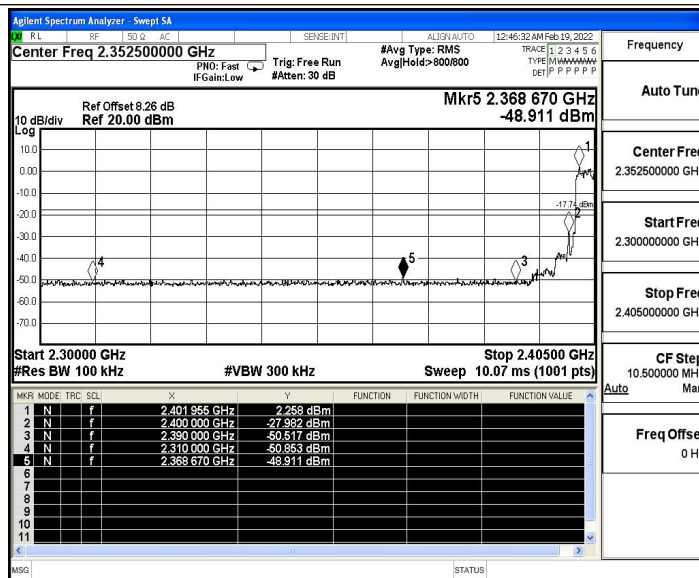
2DH5_Ant1_Low_2402



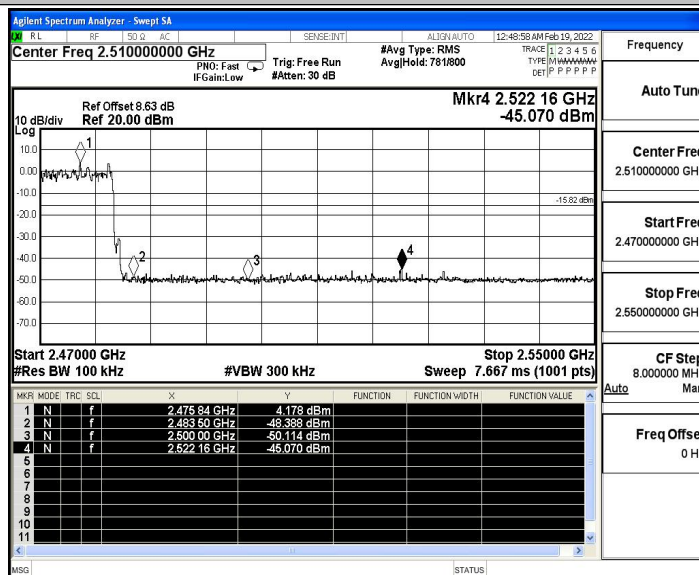
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480



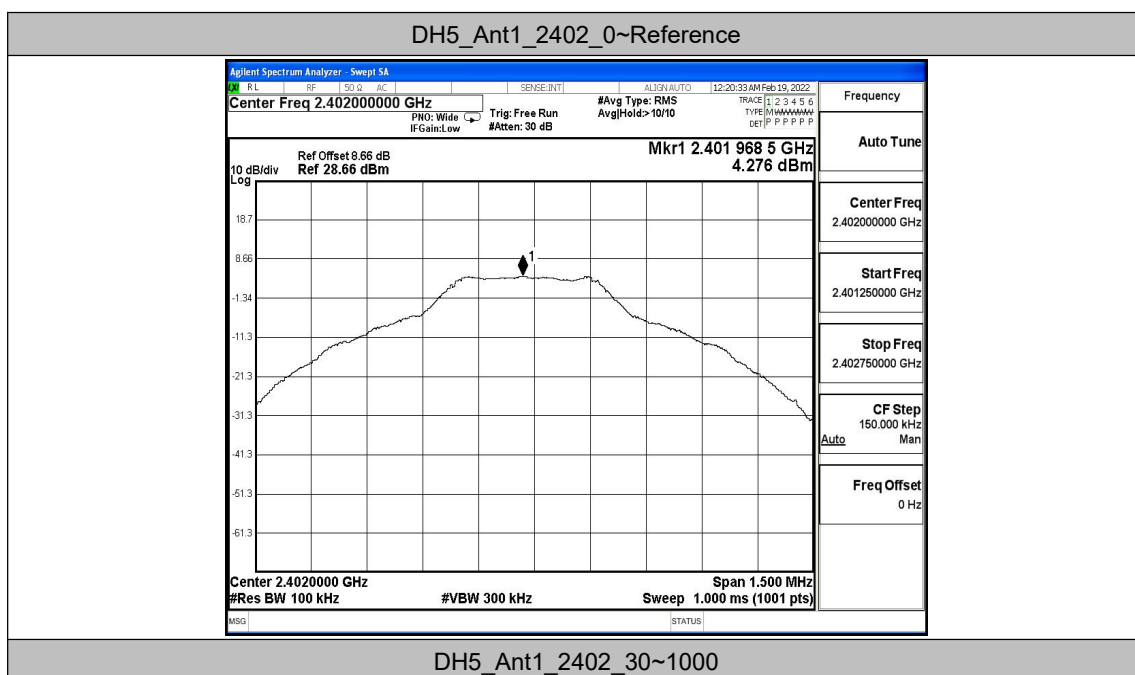


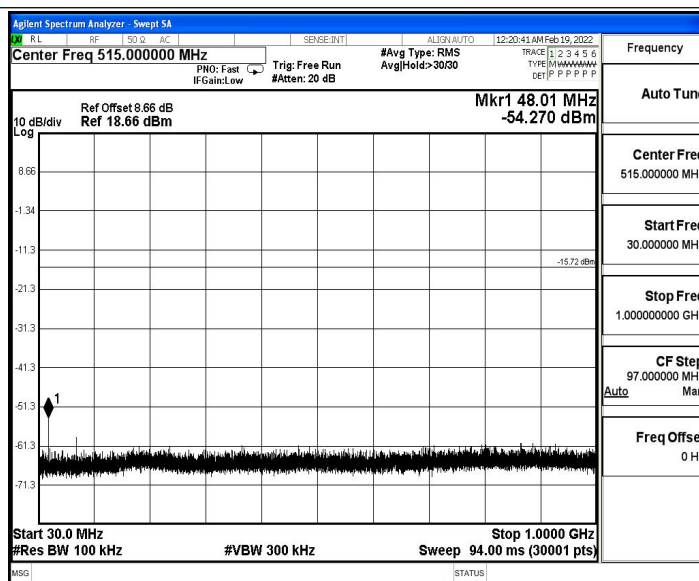
A.7 Conducted Spurious Emission

Test Result

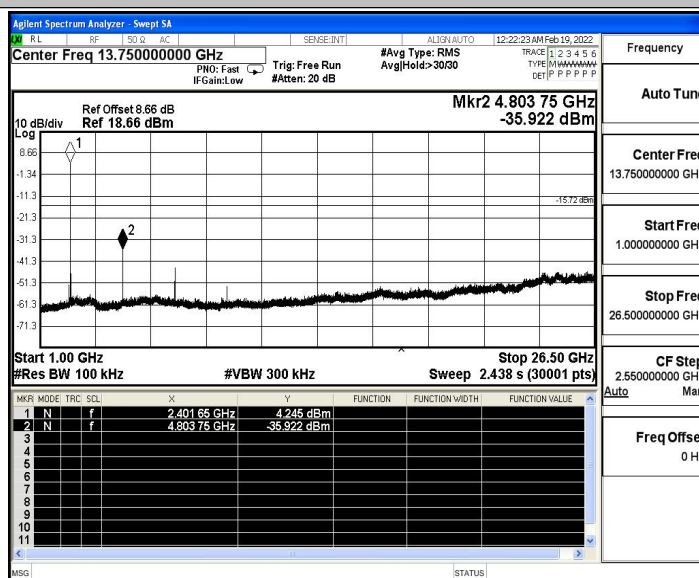
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	4.28	4.28	---	PASS
			30~1000	4.28	-54.27	≤-15.72	PASS
			1000~26500	4.28	-35.92	≤-15.72	PASS
		2441	Reference	4.61	4.61	---	PASS
			30~1000	4.61	-52.87	≤-15.39	PASS
			1000~26500	4.61	-36.04	≤-15.39	PASS
		2480	Reference	4.32	4.32	---	PASS
			30~1000	4.32	-51.78	≤-15.68	PASS
			1000~26500	4.32	-36	≤-15.68	PASS
2DH5	Ant1	2402	Reference	4.45	4.45	---	PASS
			30~1000	4.45	-52.97	≤-15.55	PASS
			1000~26500	4.45	-36.64	≤-15.55	PASS
		2441	Reference	4.80	4.80	---	PASS
			30~1000	4.80	-54.46	≤-15.2	PASS
			1000~26500	4.80	-35.02	≤-15.2	PASS
		2480	Reference	4.35	4.35	---	PASS
			30~1000	4.35	-51.44	≤-15.65	PASS
			1000~26500	4.35	-35.59	≤-15.65	PASS

Test Graphs

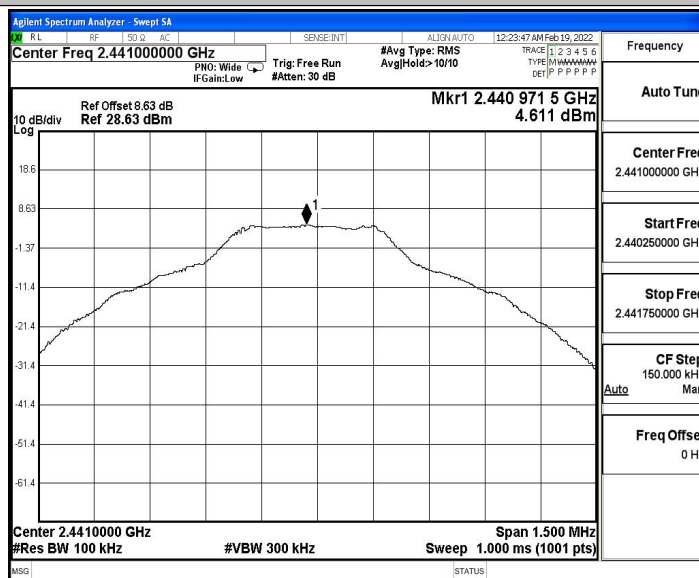




DH5_Ant1_2402_1000~26500

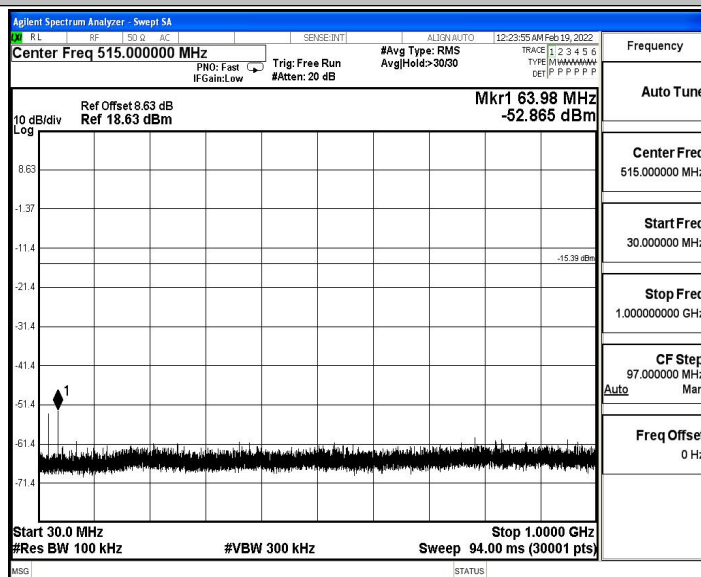


DH5_Ant1_2441_0~Reference

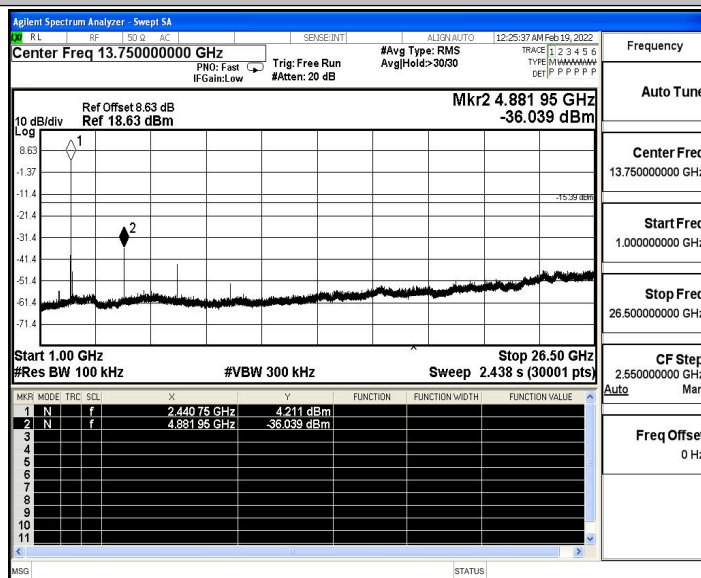




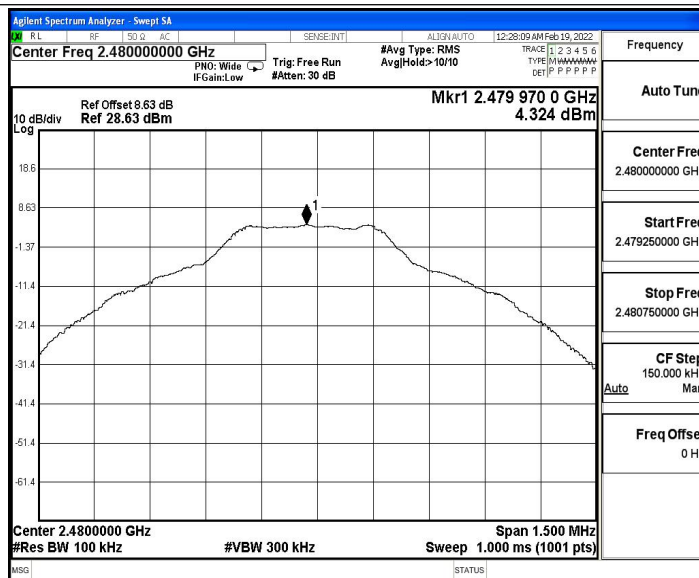
DH5_Ant1_2441_30~1000



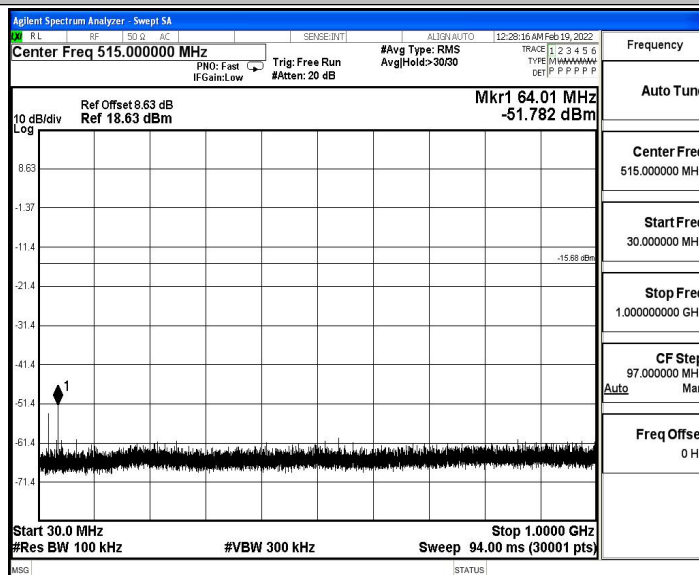
DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500

