



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Bluetooth Speaker

Test Model: WRM6500

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	 Monkey Li
Supervised by:	 Li Huan



A.1 20dB Emission Bandwidth

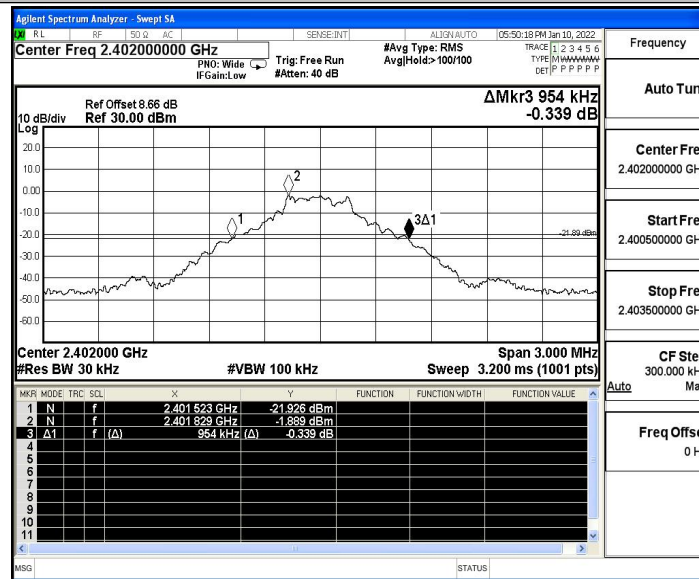
Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.954	2401.523	2402.477	---	---
		2441	0.951	2440.520	2441.471	---	---
		2480	0.954	2479.520	2480.474	---	---
2DH5	Ant1	2402	1.260	2401.358	2402.618	---	---
		2441	1.272	2440.355	2441.627	---	---
		2480	1.278	2479.352	2480.630	---	---
3DH5	Ant1	2402	1.290	2401.337	2402.627	---	---
		2441	1.275	2440.343	2441.618	---	---
		2480	1.278	2479.340	2480.618	---	---

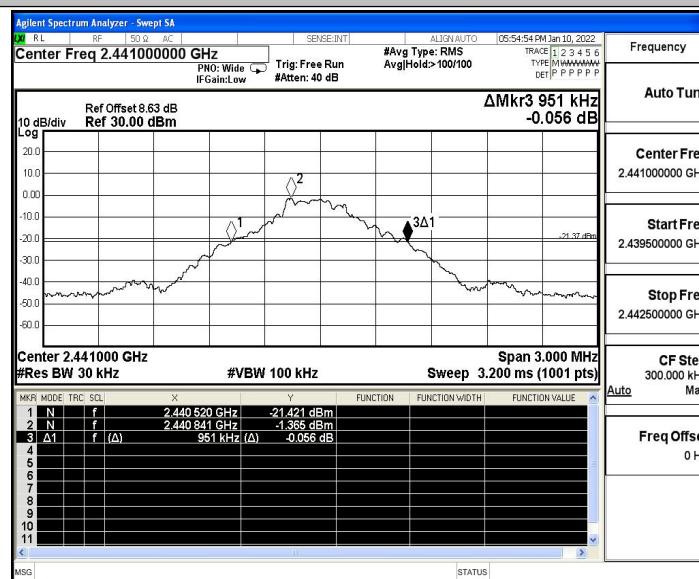


Test Graphs

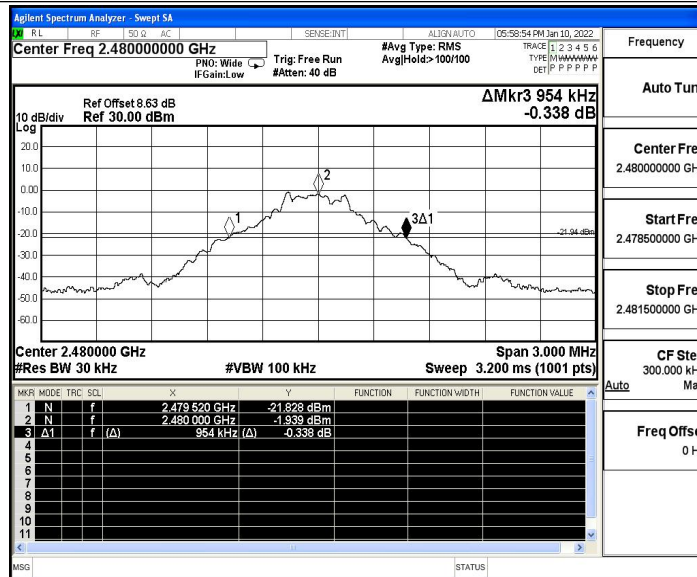
DH5_Ant1_2402



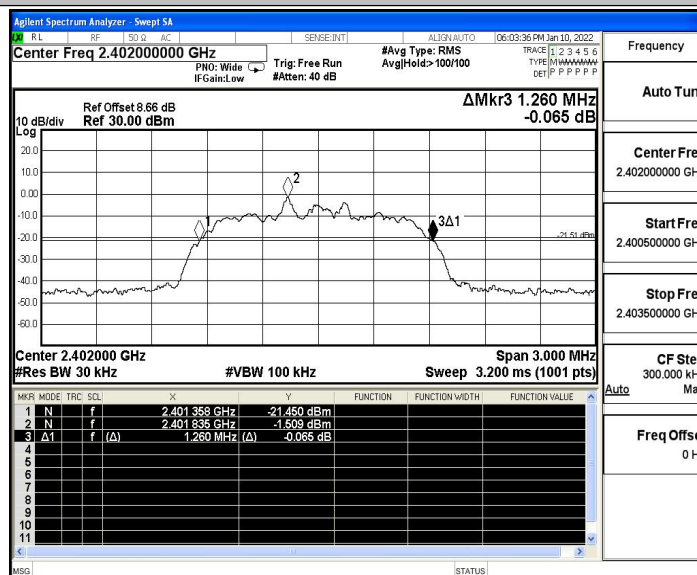
DH5_Ant1_2441



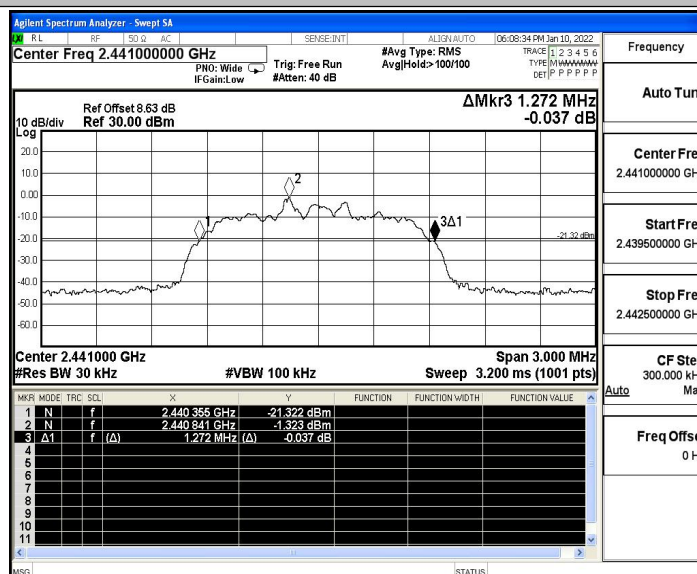
DH5_Ant1_2480



2DH5_Ant1_2402

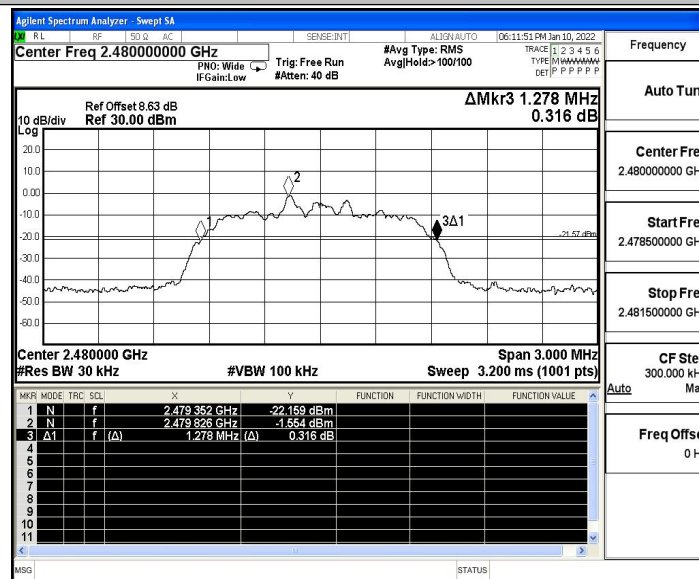


2DH5_Ant1_2441

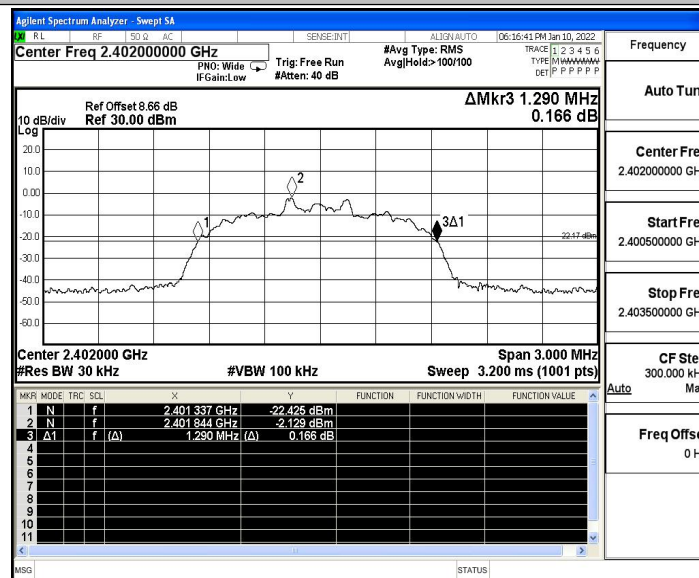




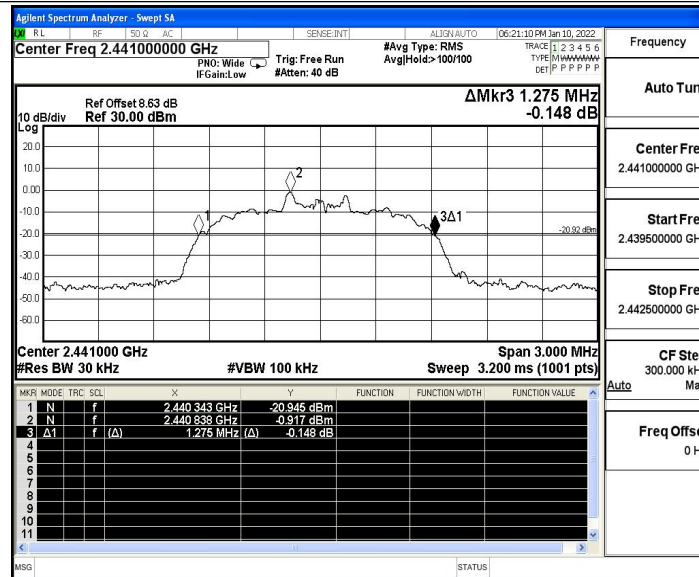
2DH5_Ant1_2480



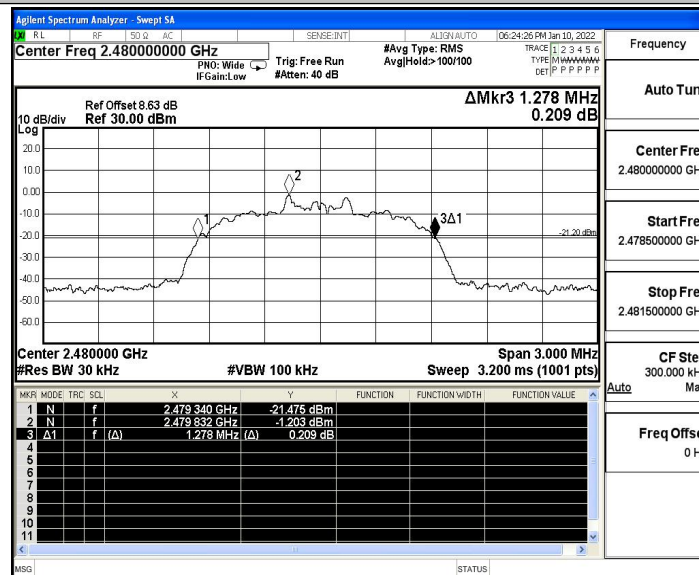
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

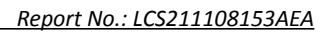


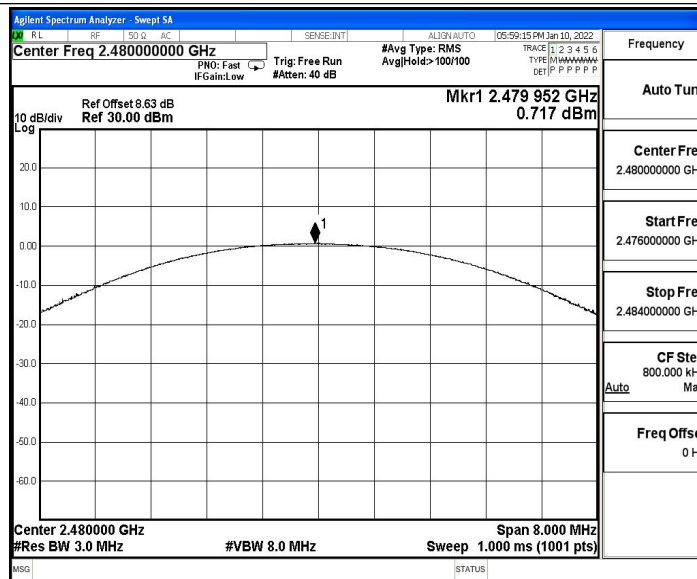


A.2 Maximum peak conducted output power

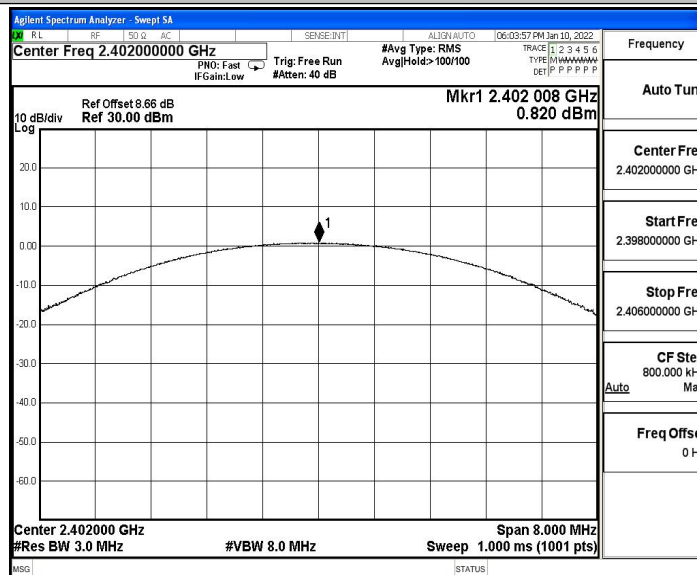
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.27	≤20.97	PASS
		2441	0.68	≤20.97	PASS
		2480	0.72	≤20.97	PASS
2DH5	Ant1	2402	0.82	≤20.97	PASS
		2441	1.32	≤20.97	PASS
		2480	1.24	≤20.97	PASS
3DH5	Ant1	2402	1.29	≤20.97	PASS
		2441	1.74	≤20.97	PASS
		2480	1.73	≤20.97	PASS

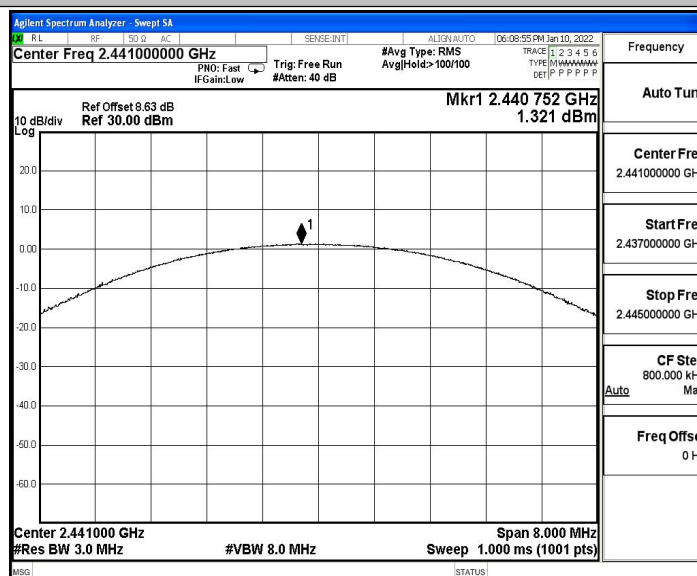




2DH5_Ant1_2402

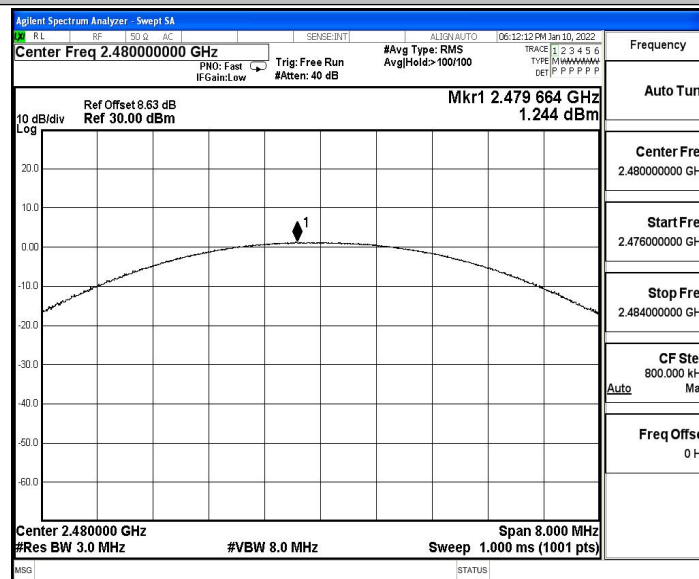


2DH5_Ant1_2441

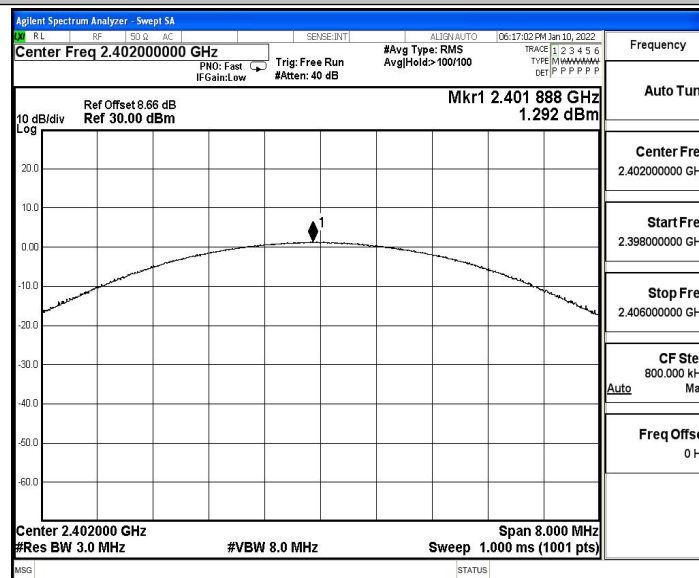




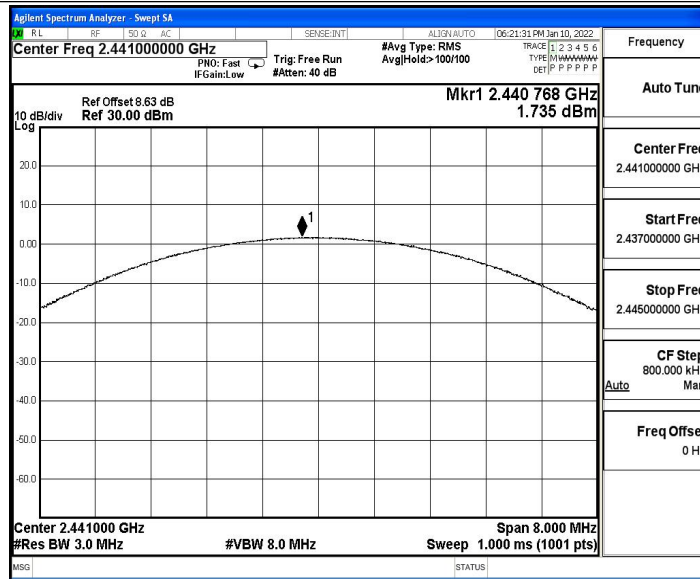
2DH5_Ant1_2480



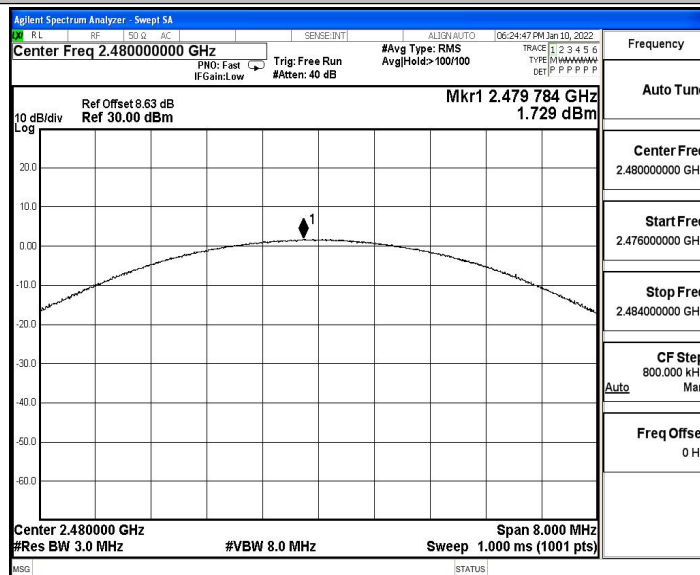
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480





A.3 Carrier frequency separation

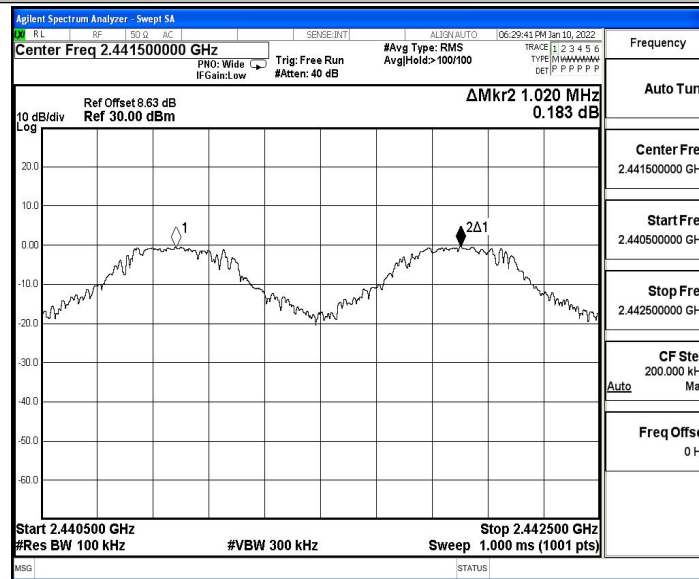
Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.02	≥ 0.954	PASS
2DH5	Ant1	Hop	0.976	≥ 0.852	PASS
3DH5	Ant1	Hop	1.216	≥ 0.860	PASS

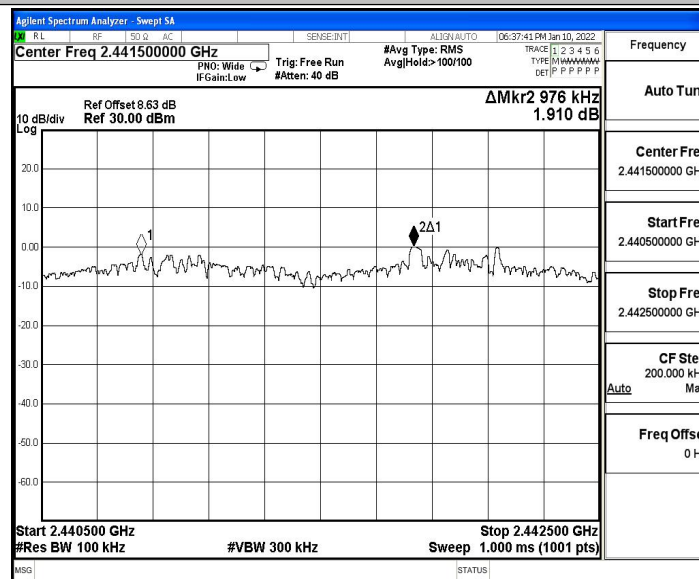


Test Graphs

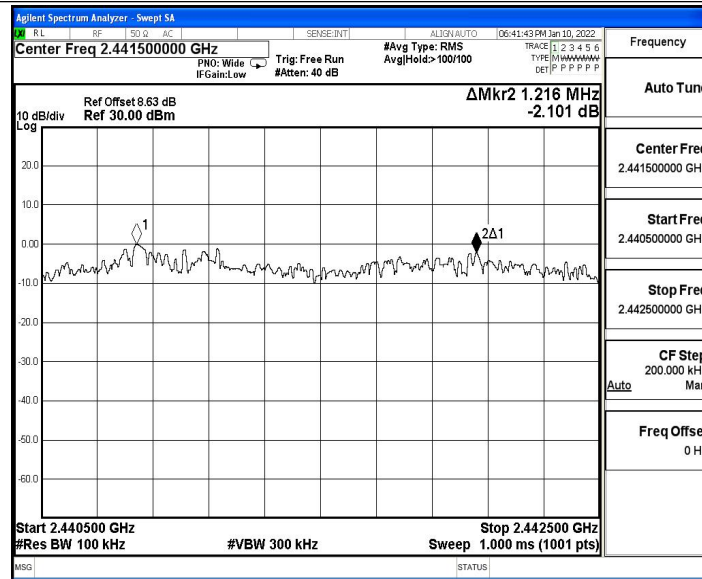
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop





A.4 Time of occupancy

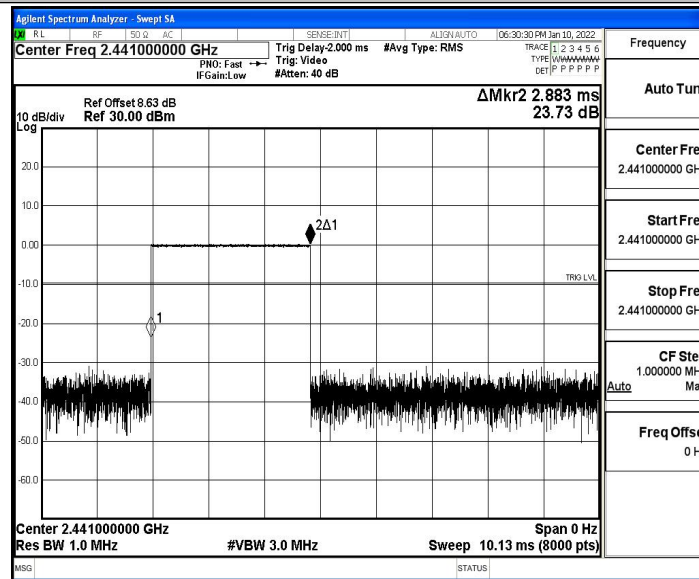
Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	106.67	0.308	≤0.4	PASS
2DH5	Ant1	Hop	2.88	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.89	106.67	0.308	≤0.4	PASS

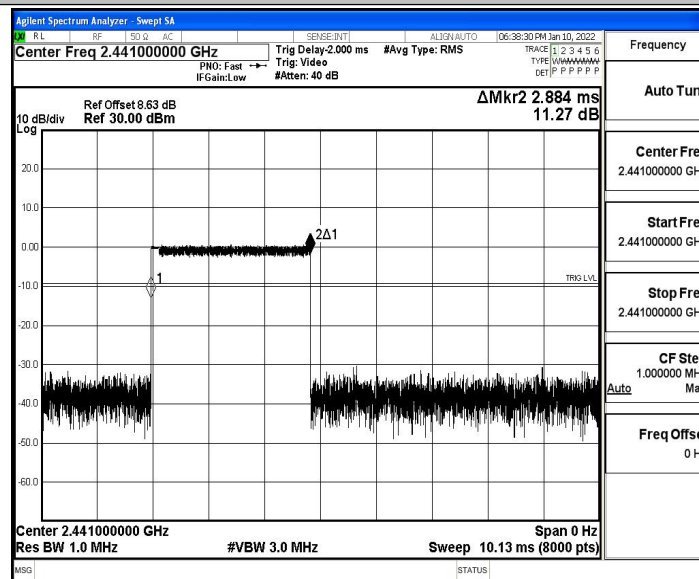


Test Graphs

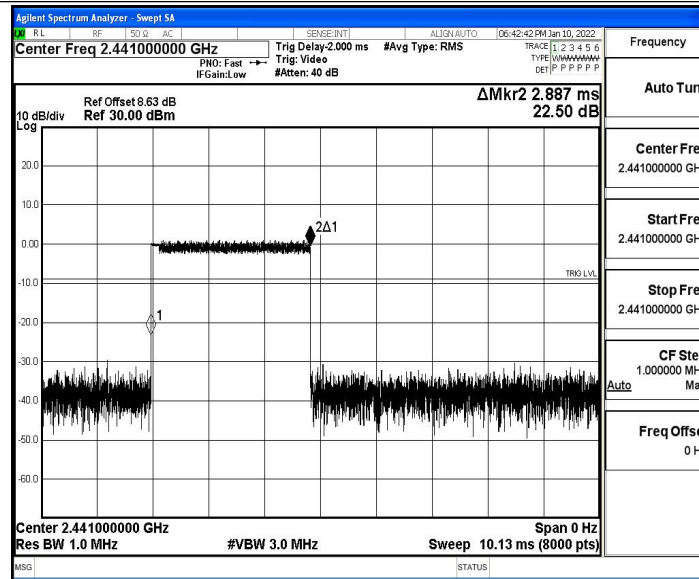
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop





A.5 Number of hopping channels

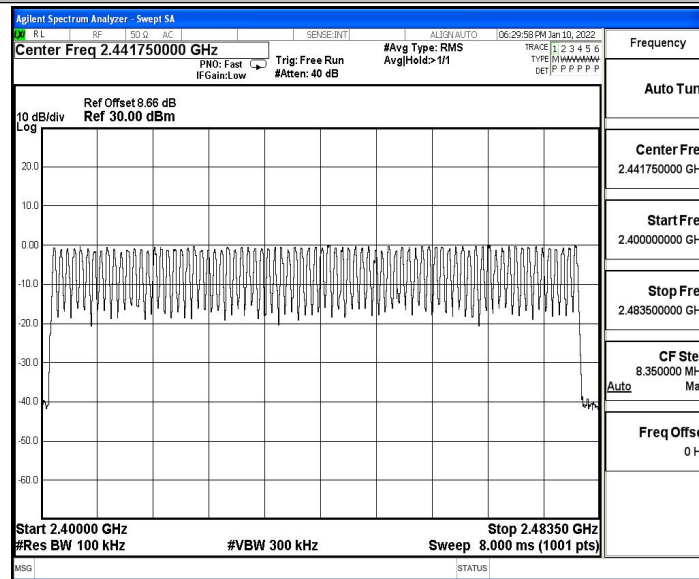
Test Result

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

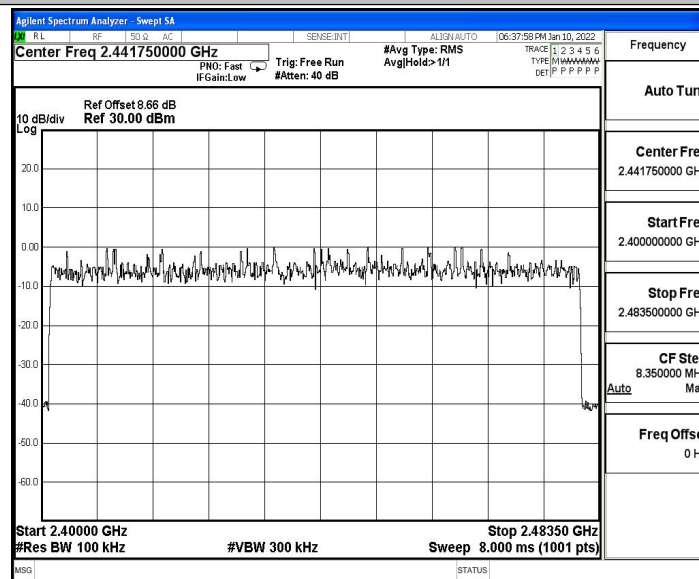


Test Graphs

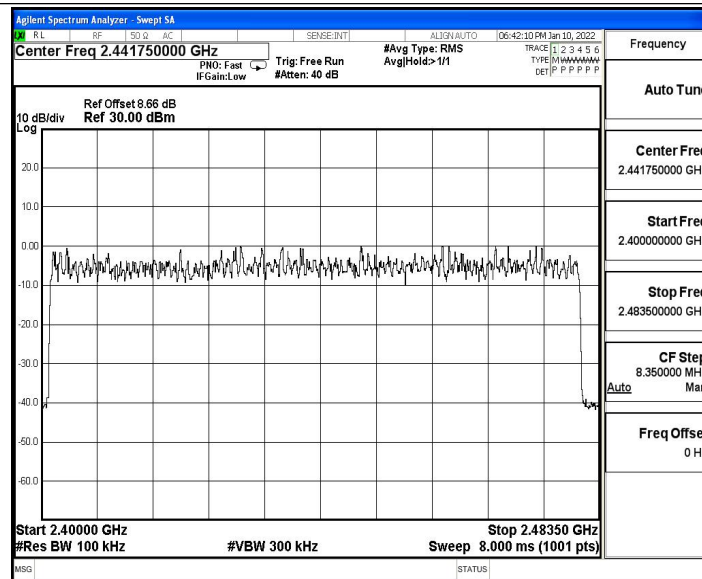
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop





A.6 Band edge measurements

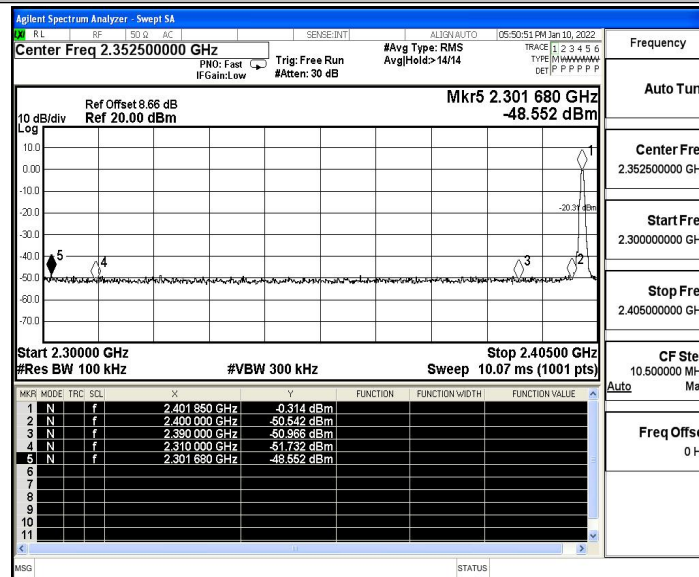
Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.31	-48.55	≤ -20.31	PASS
		High	2480	0.07	-47.8	≤ -19.93	PASS
		Low	Hop_2402	-1.13	-49.39	≤ -21.13	PASS
		High	Hop_2480	-0.28	-47.91	≤ -20.28	PASS
2DH5	Ant1	Low	2402	-3.74	-49.26	≤ -23.74	PASS
		High	2480	0.06	-47.81	≤ -19.94	PASS
		Low	Hop_2402	-4.33	-49.18	≤ -24.33	PASS
		High	Hop_2480	-0.77	-47.65	≤ -20.77	PASS
3DH5	Ant1	Low	2402	-0.41	-48.69	≤ -20.41	PASS
		High	2480	0.04	-48.31	≤ -19.96	PASS
		Low	Hop_2402	-4.26	-49.09	≤ -24.26	PASS
		High	Hop_2480	-1.86	-47.84	≤ -21.86	PASS

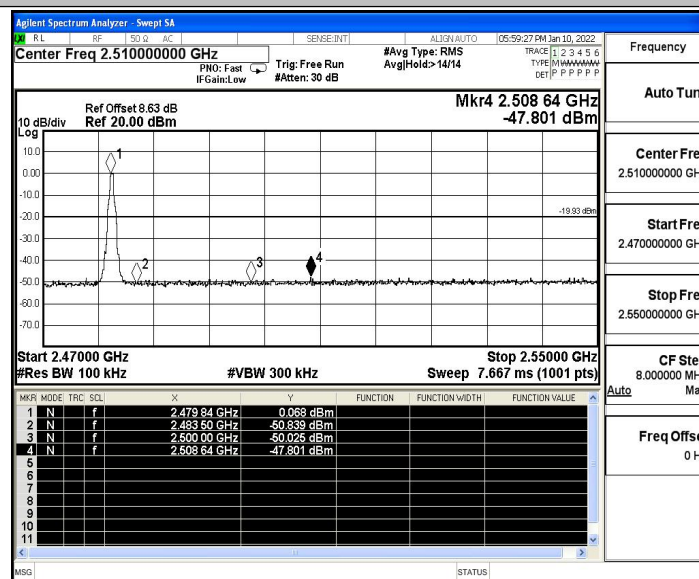


Test Graphs

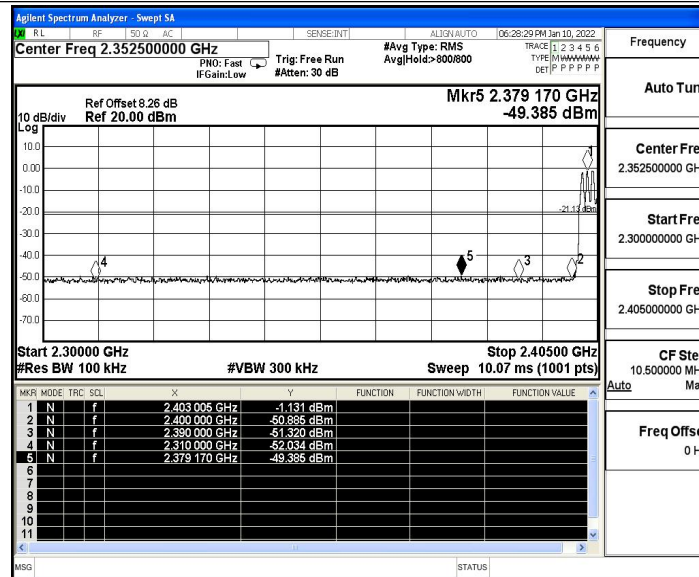
DH5_Ant1_Low_2402



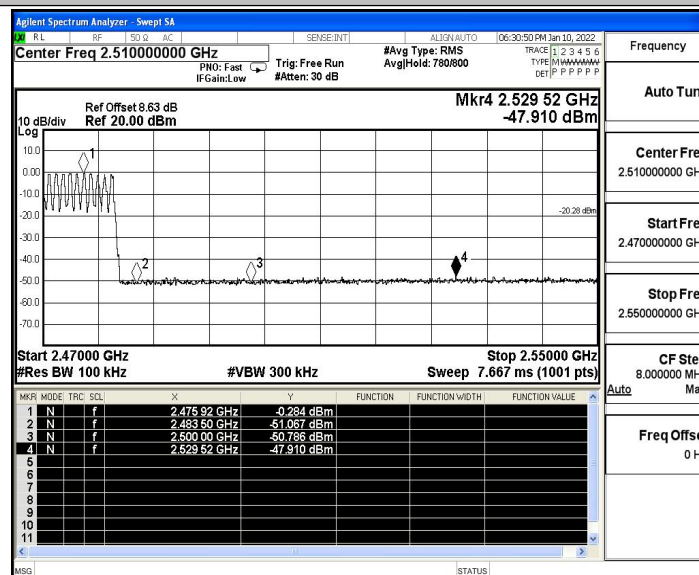
DH5_Ant1_High_2480



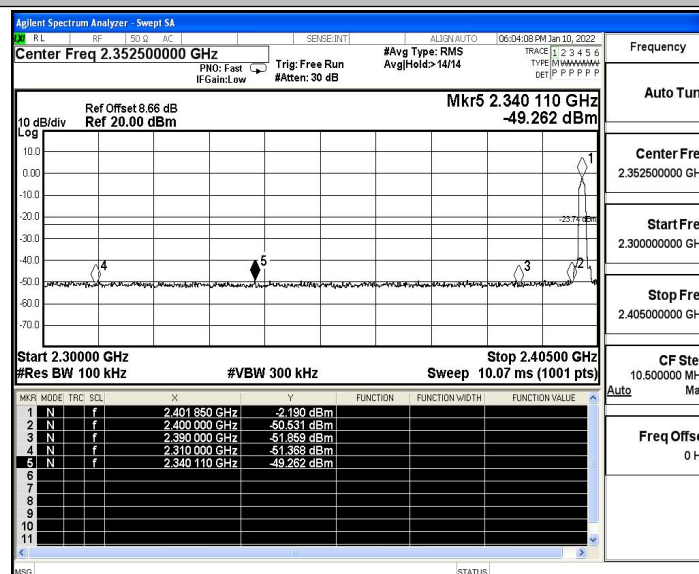
DH5_Ant1_Low_Hop_2402



DH5_Ant1_High_Hop_2480

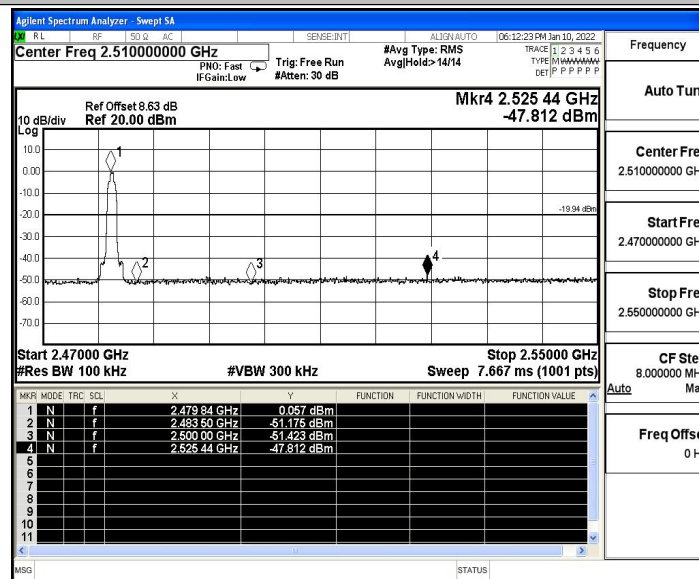


2DH5_Ant1_Low_2402

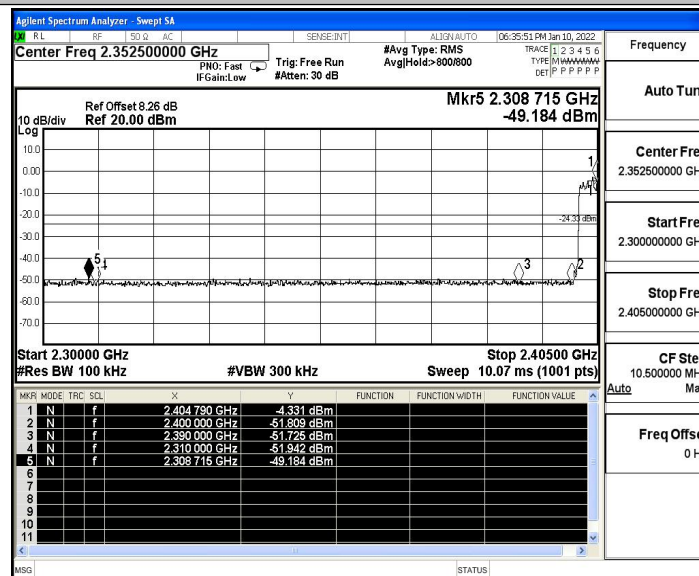




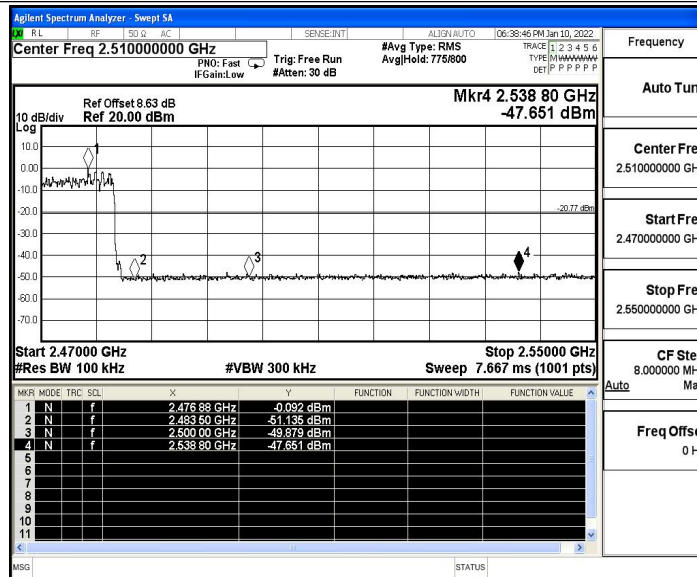
2DH5_Ant1_High_2480



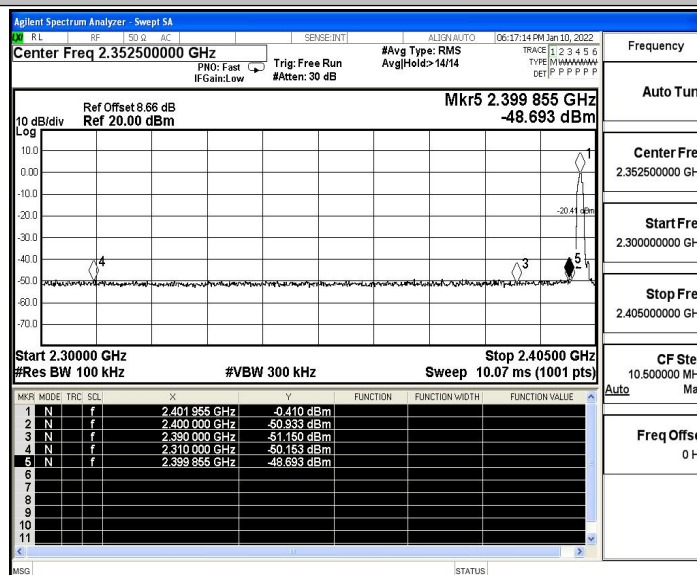
2DH5_Ant1_Low_Hop_2402



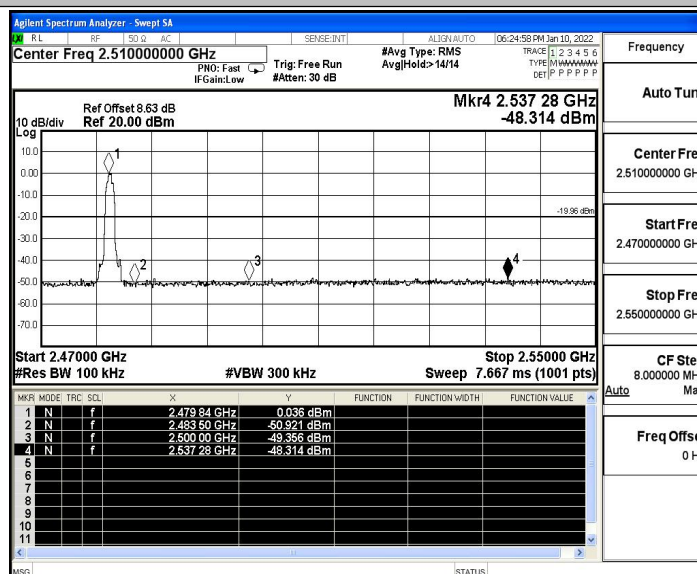
2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

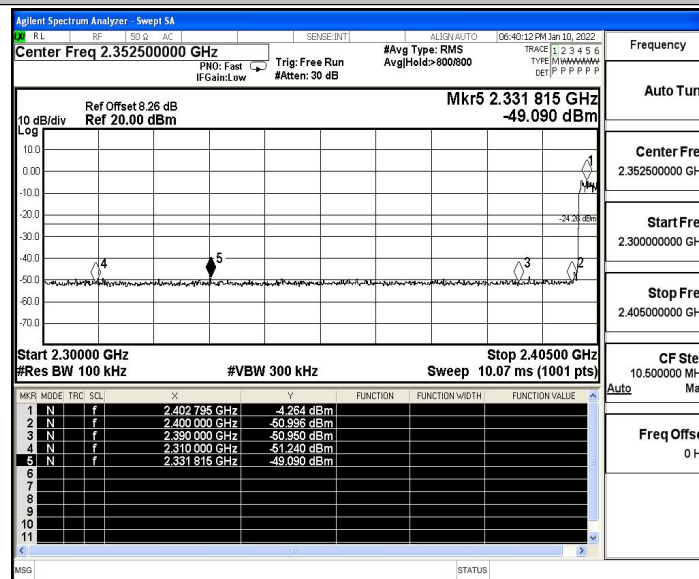


3DH5_Ant1_High_2480

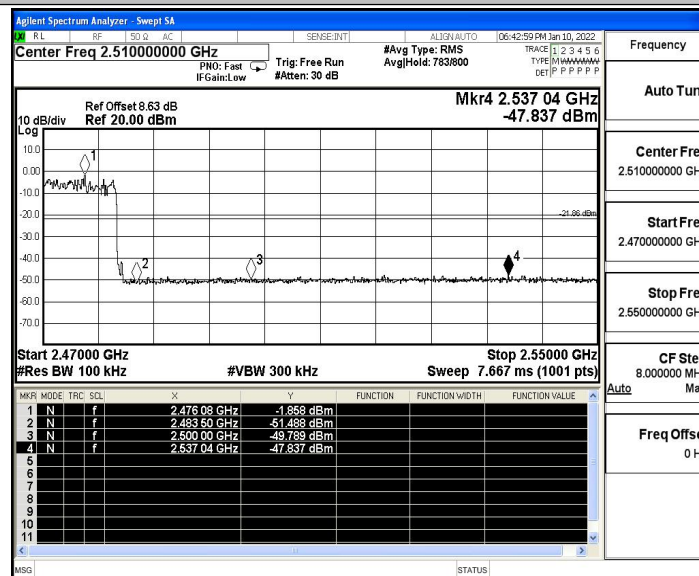




3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480





A.7 Conducted Spurious Emission

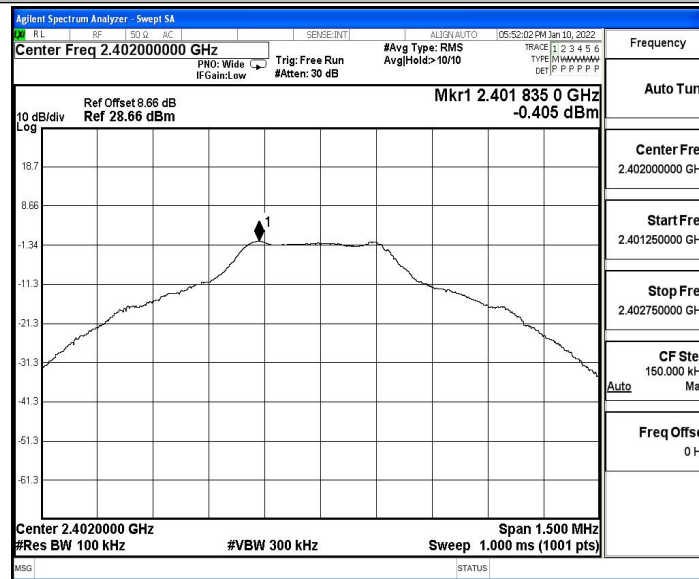
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.41	-0.41	---	PASS
			30~1000	-0.41	-60.32	≤ -20.41	PASS
			1000~26500	-0.41	-46.1	≤ -20.41	PASS
		2441	Reference	-0.01	-0.01	---	PASS
			30~1000	-0.01	-60.7	≤ -20.01	PASS
			1000~26500	-0.01	-45.77	≤ -20.01	PASS
		2480	Reference	-0.19	-0.19	---	PASS
			30~1000	-0.19	-60.64	≤ -20.19	PASS
			1000~26500	-0.19	-46.23	≤ -20.19	PASS
2DH5	Ant1	2402	Reference	-0.45	-0.45	---	PASS
			30~1000	-0.45	-60.64	≤ -20.45	PASS
			1000~26500	-0.45	-46.52	≤ -20.45	PASS
		2441	Reference	0.01	0.01	---	PASS
			30~1000	0.01	-60.39	≤ -19.99	PASS
			1000~26500	0.01	-45.89	≤ -19.99	PASS
		2480	Reference	-0.01	-0.01	---	PASS
			30~1000	-0.01	-60.74	≤ -20.01	PASS
			1000~26500	-0.01	-46.06	≤ -20.01	PASS
3DH5	Ant1	2402	Reference	-0.42	-0.42	---	PASS
			30~1000	-0.42	-60.85	≤ -20.42	PASS
			1000~26500	-0.42	-45.82	≤ -20.42	PASS
		2441	Reference	-0.19	-0.19	---	PASS
			30~1000	-0.19	-60.79	≤ -20.19	PASS
			1000~26500	-0.19	-46.13	≤ -20.19	PASS
		2480	Reference	-0.16	-0.16	---	PASS
			30~1000	-0.16	-58.62	≤ -20.16	PASS
			1000~26500	-0.16	-45.5	≤ -20.16	PASS

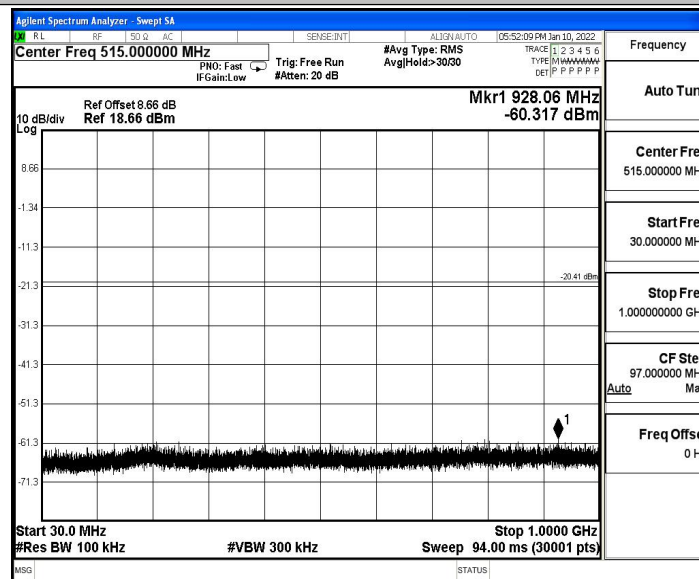


Test Graphs

DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500