



Appendix A

RF Test Data for BT V5.0(DSS) (Conducted Measurement)

Product Name: Multi-function Bluetooth speaker

Test Model: OTS169

Environmental Conditions

Temperature:	21.1℃
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Kay Hu
Supervised by:	Li Huan



A.1 20dB Emission Bandwidth

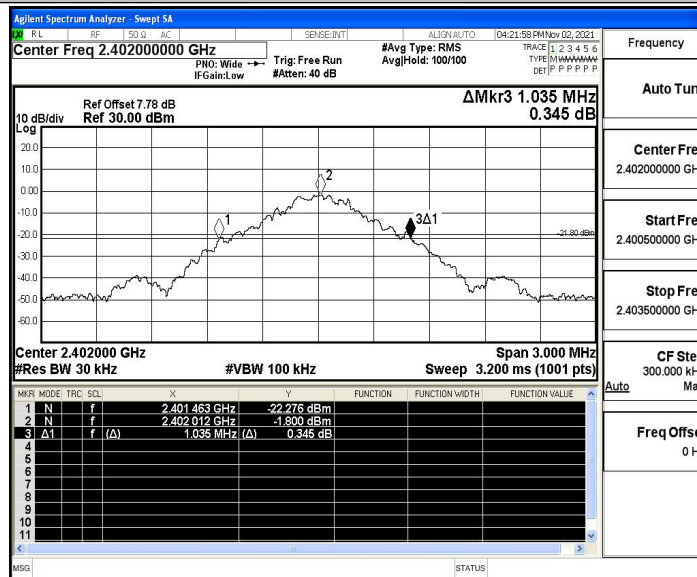
Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.035	2401.463	2402.498	---	PASS
		2441	0.969	2440.532	2441.501	---	PASS
		2480	1.029	2479.466	2480.495	---	PASS
2DH5	Ant1	2402	1.350	2401.328	2402.678	---	PASS
		2441	1.272	2440.382	2441.654	---	PASS
		2480	1.320	2479.340	2480.660	---	PASS

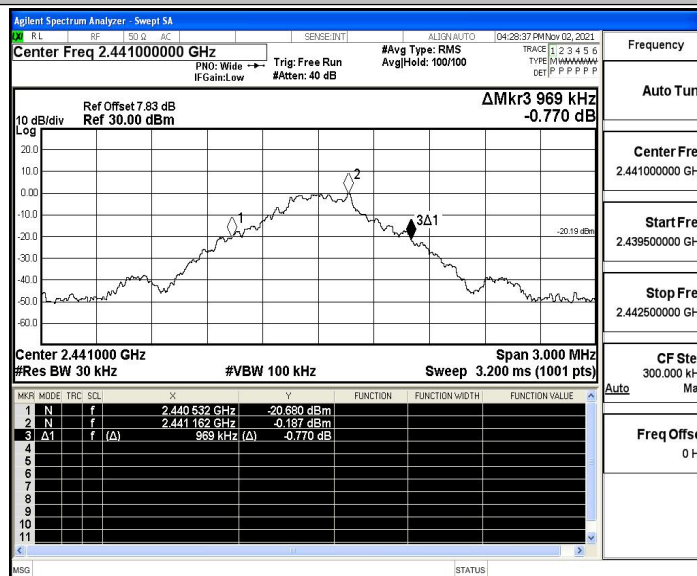


Test Graphs

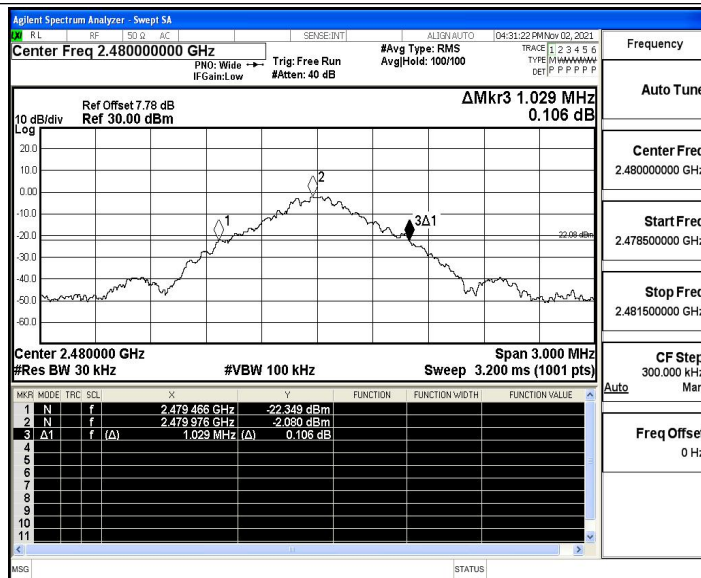
DH5_Ant1_2402



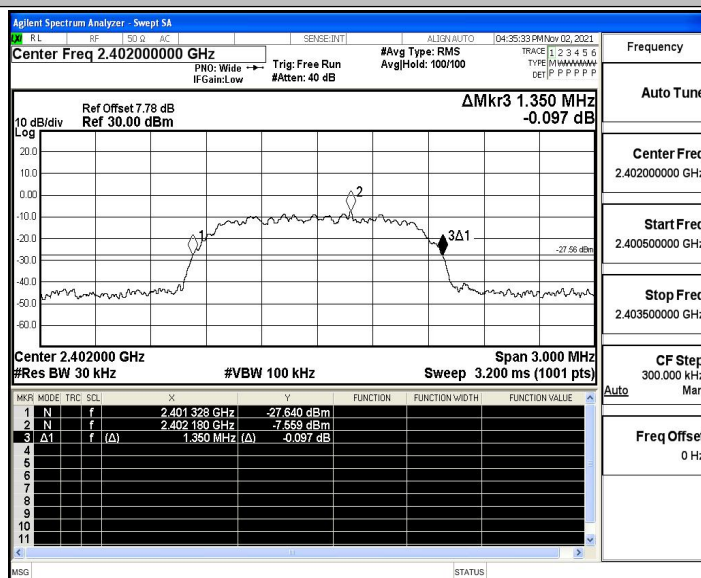
DH5_Ant1_2441



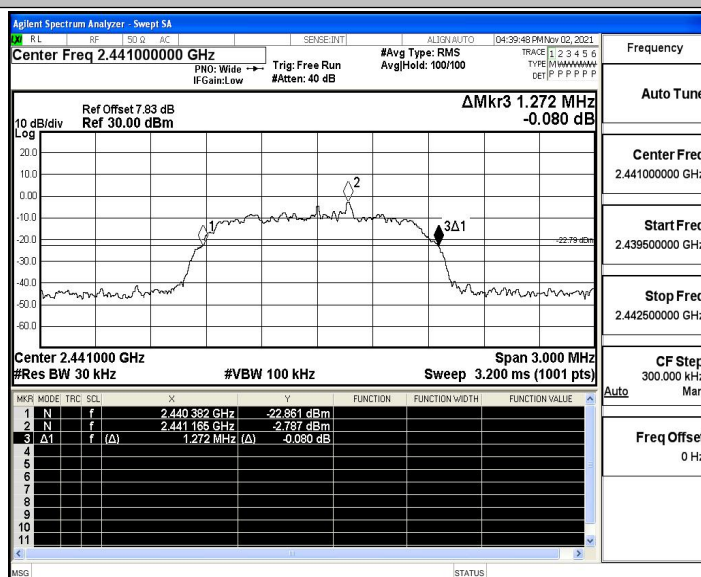
DH5_Ant1_2480



2DH5_Ant1_2402

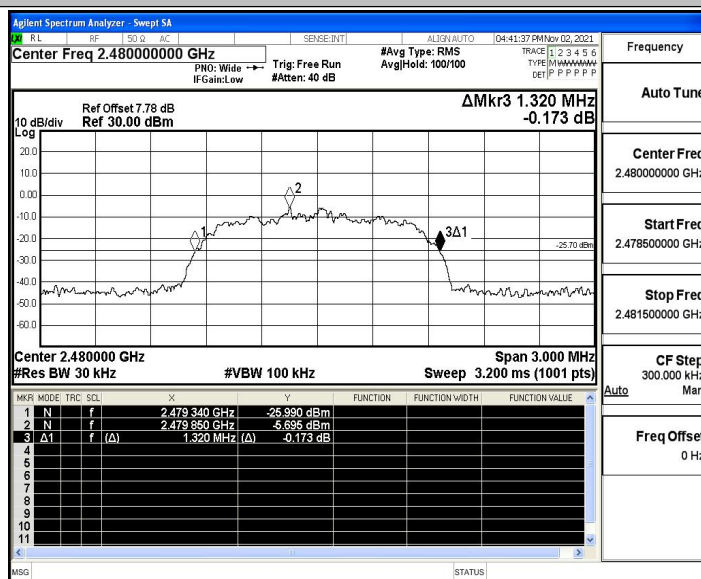


2DH5_Ant1_2441





2DH5_Ant1_2480





A.2 Maximum peak conducted output power

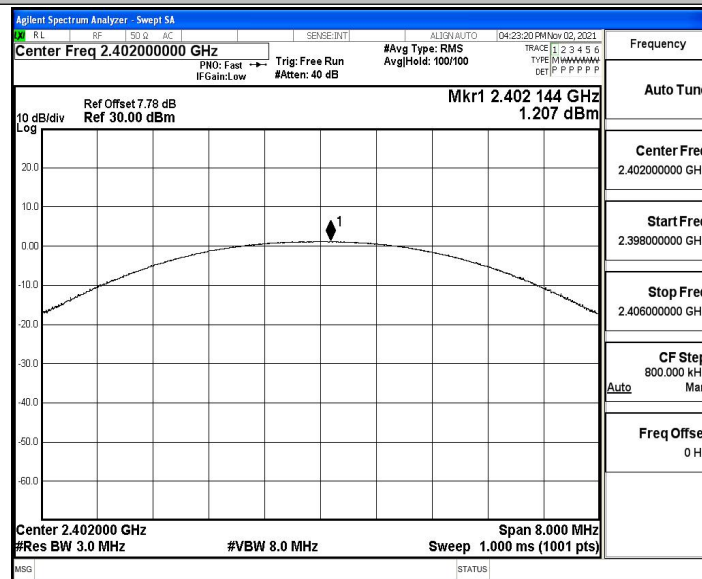
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.21	≤ 20.97	PASS
		2441	2.36	≤ 20.97	PASS
		2480	0.93	≤ 20.97	PASS
2DH5	Ant1	2402	0.23	≤ 20.97	PASS
		2441	1.4	≤ 20.97	PASS
		2480	-0.03	≤ 20.97	PASS

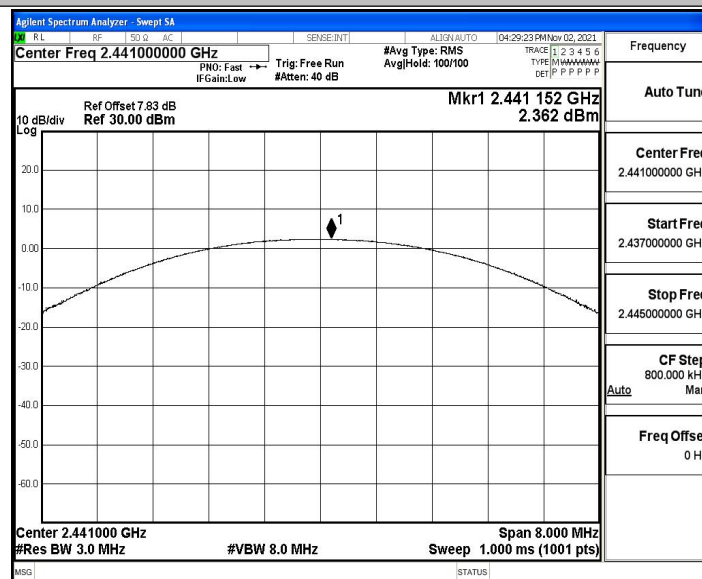


Test Graphs

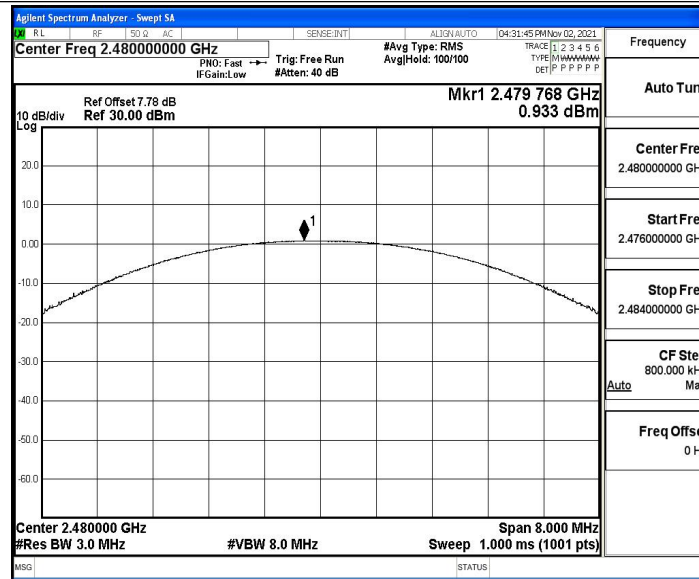
DH5_Ant1_2402



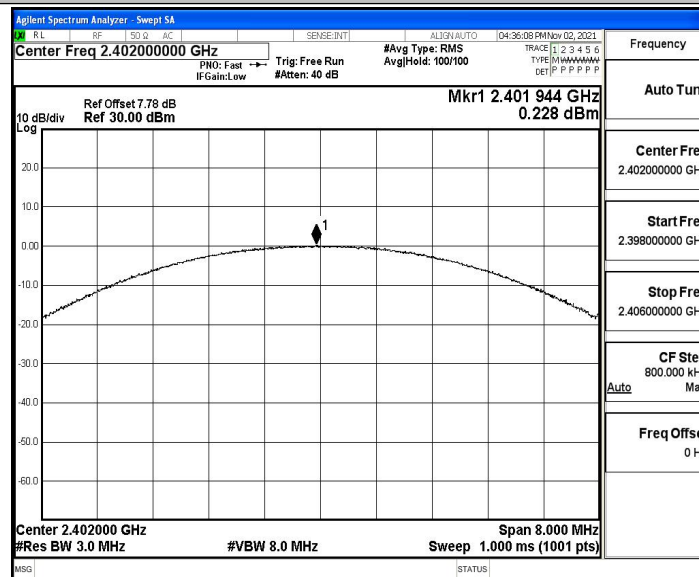
DH5_Ant1_2441



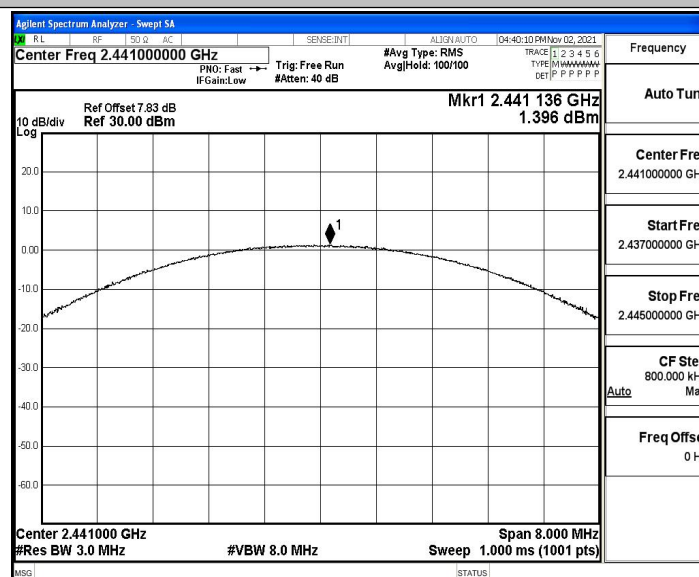
DH5_Ant1_2480



2DH5_Ant1_2402

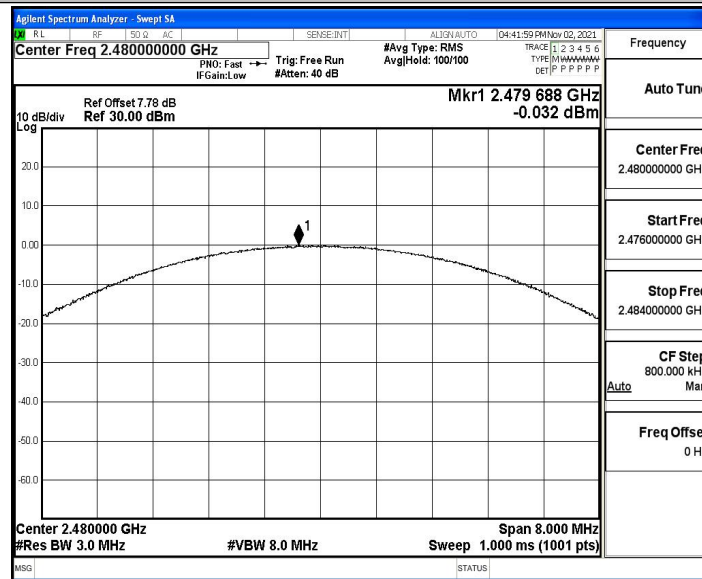


2DH5_Ant1_2441





2DH5_Ant1_2480





A.3 Carrier frequency separation

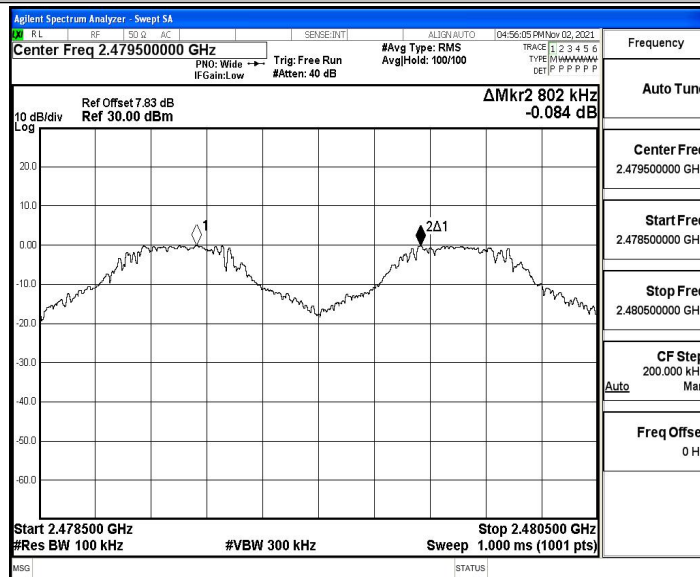
Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.802	≥ 0.690	PASS
2DH5	Ant1	Hop	1.02	≥ 0.900	PASS

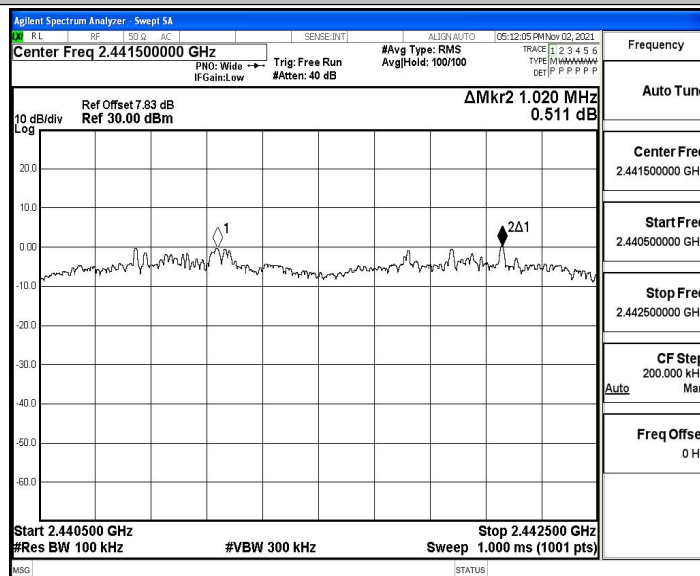


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop





A.4 Time of occupancy

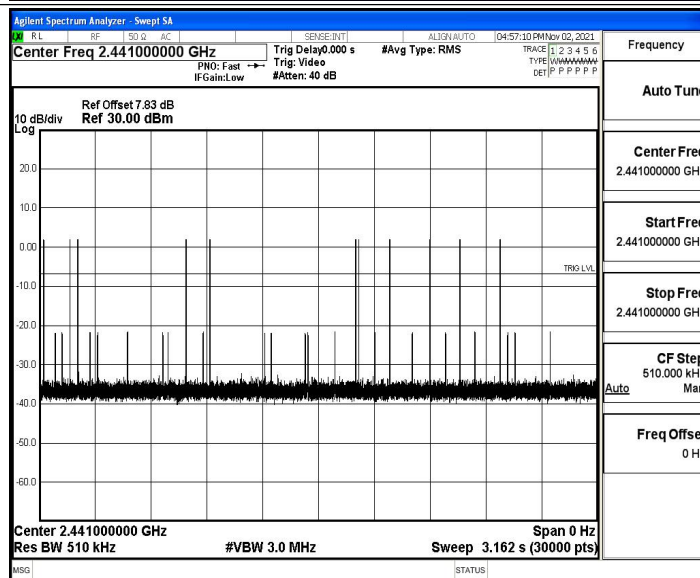
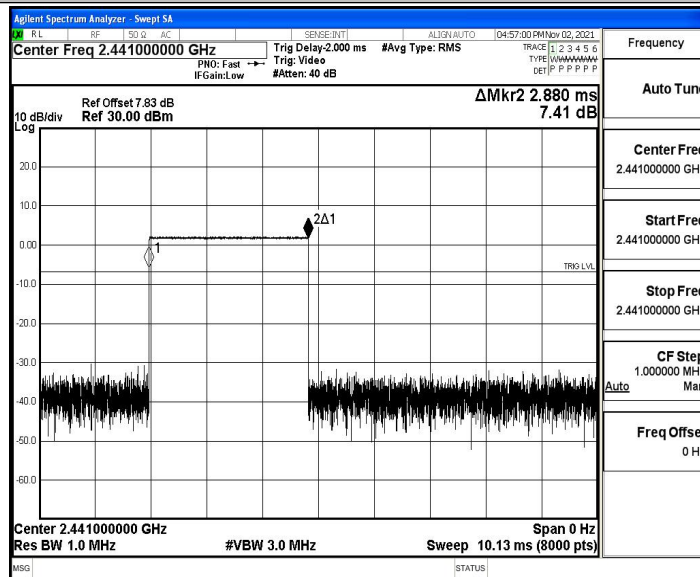
Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	120	0.346	≤0.4	PASS
2DH5	Ant1	Hop	2.88	100	0.288	≤0.4	PASS

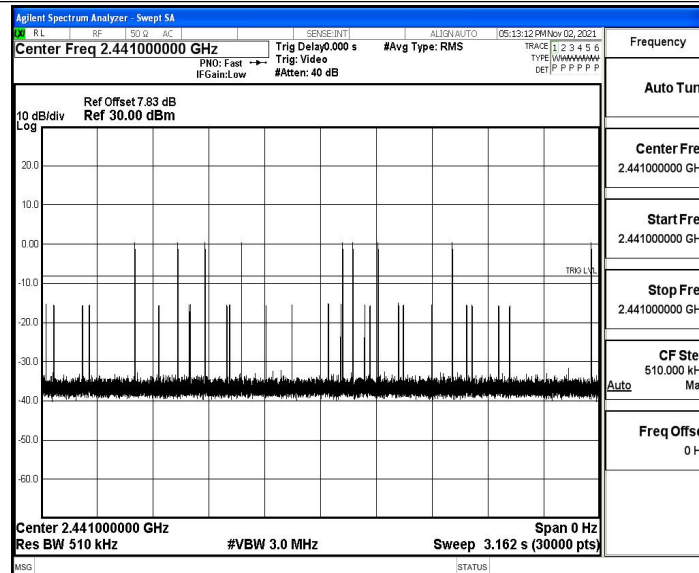
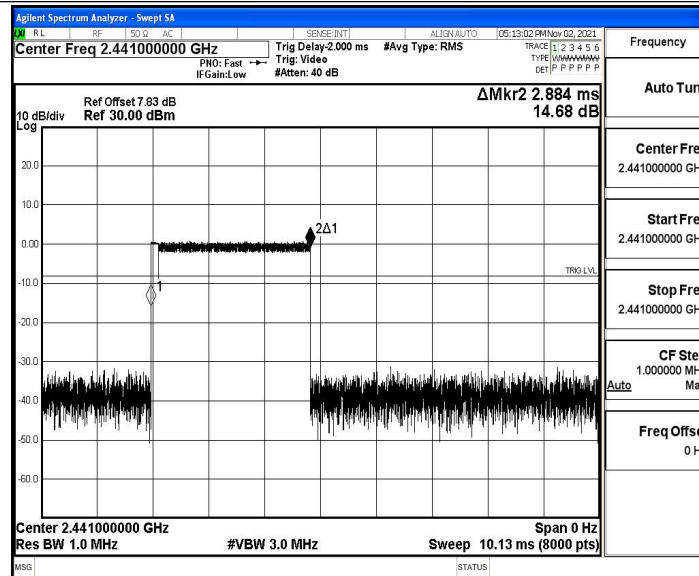


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop





A.5 Number of hopping channels

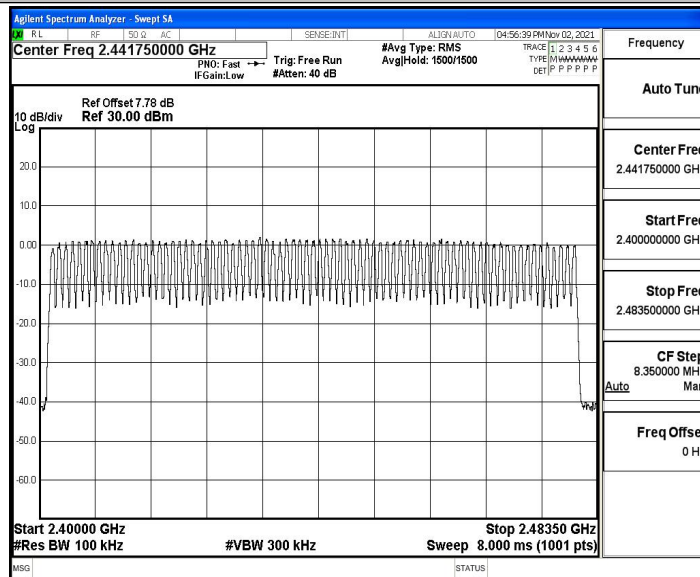
Test Result

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

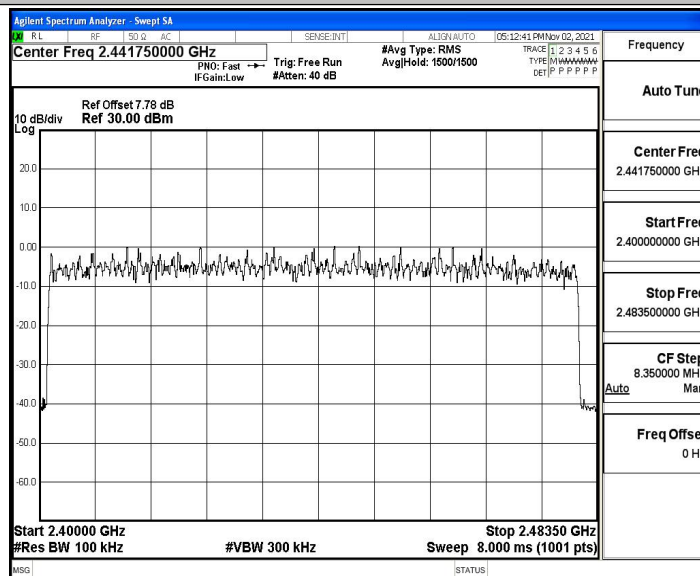


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop





A.6 Band edge measurements

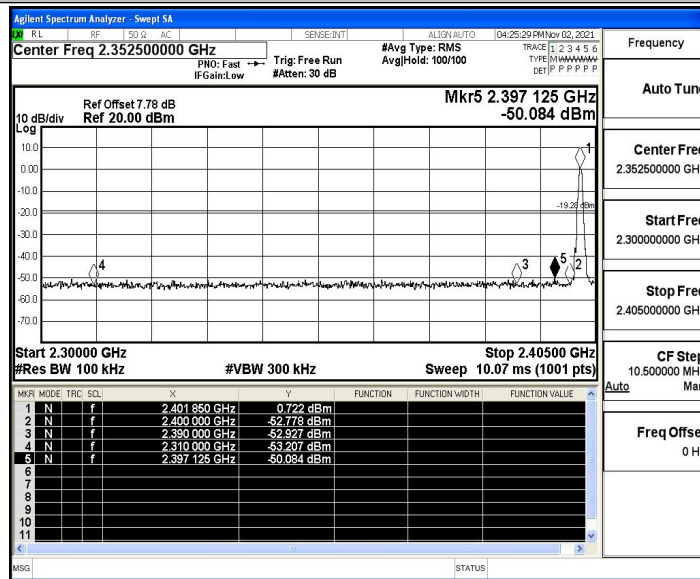
Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.72	-50.08	≤ -19.28	PASS
		High	2480	0.53	-48.95	≤ -19.47	PASS
		Low	Hop_2402	-0.55	-49.7	≤ -20.55	PASS
		High	Hop_2480	0.25	-47.41	≤ -19.75	PASS
2DH5	Ant1	Low	2402	-0.91	-50.05	≤ -20.91	PASS
		High	2480	-3.85	-46.25	≤ -23.85	PASS
		Low	Hop_2402	-1.27	-49.71	≤ -21.27	PASS
		High	Hop_2480	-0.85	-48.69	≤ -20.85	PASS

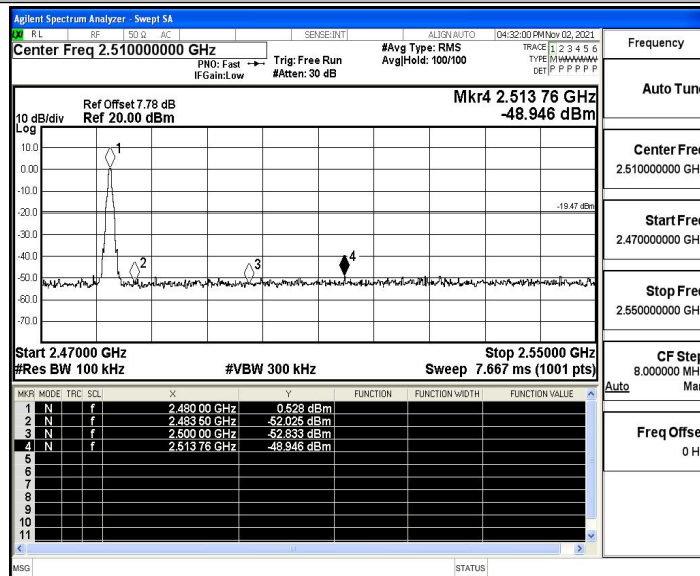


Test Graphs

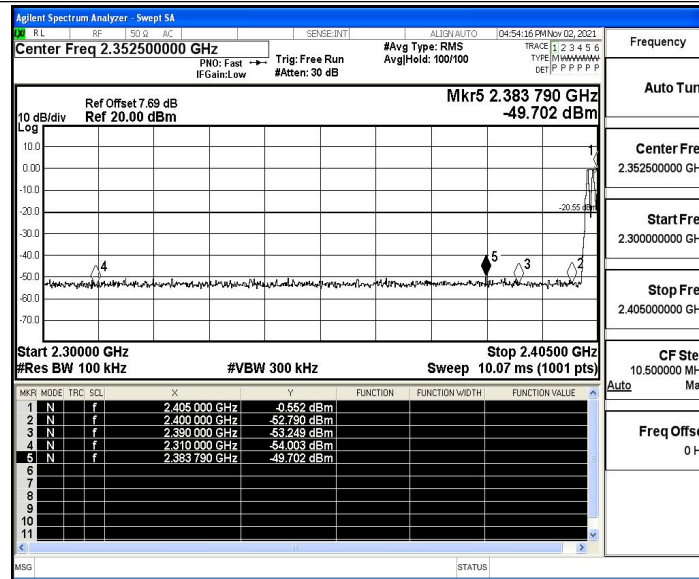
DH5_Ant1_Low_2402



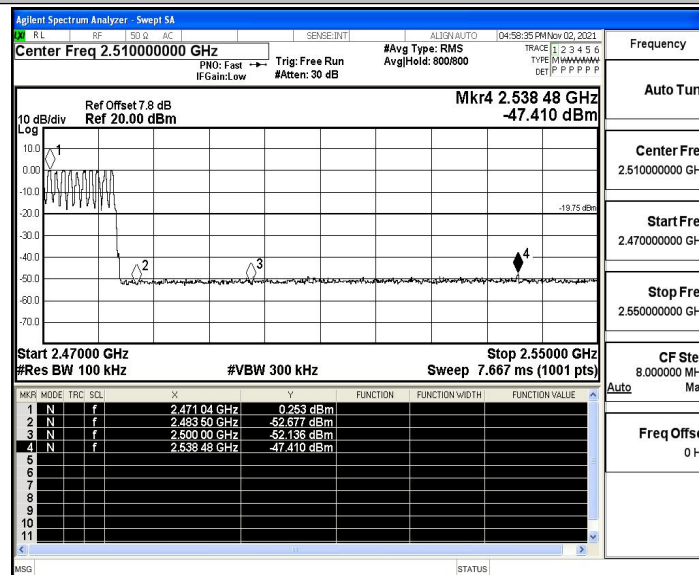
DH5_Ant1_High_2480



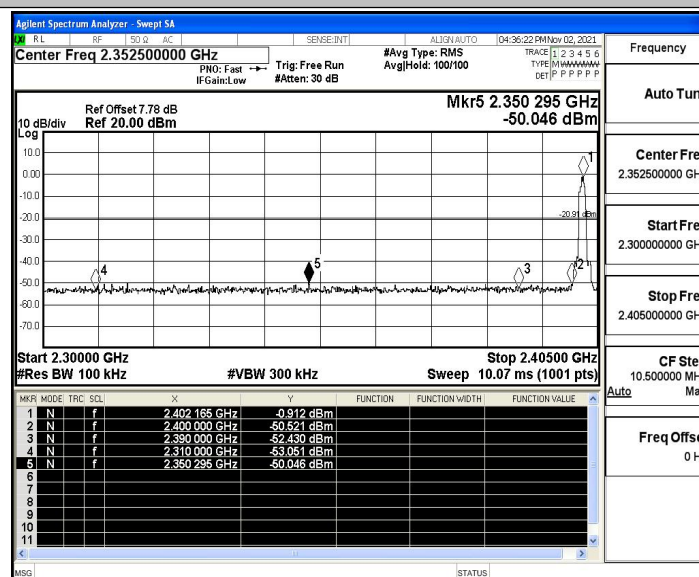
DH5_Ant1_Low_Hop_2402



DH5_Ant1_High_Hop_2480

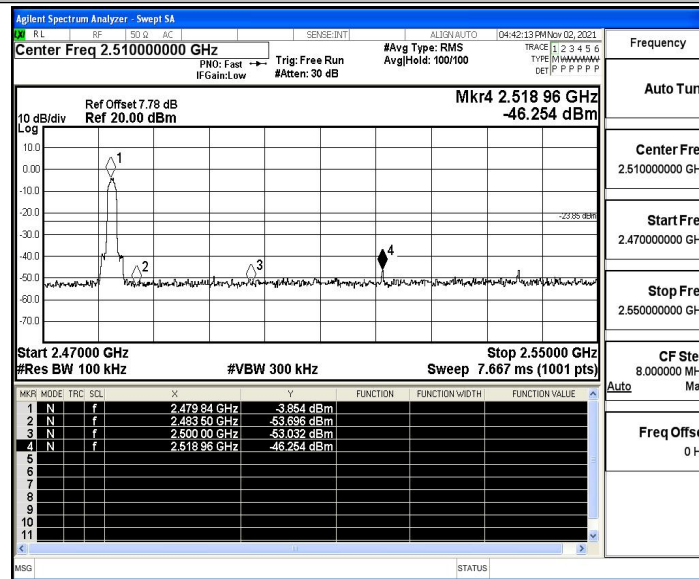


2DH5_Ant1_Low_2402

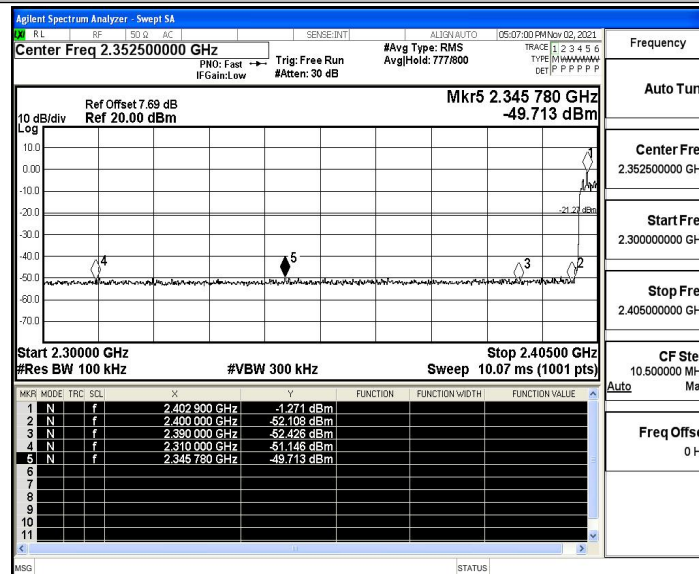




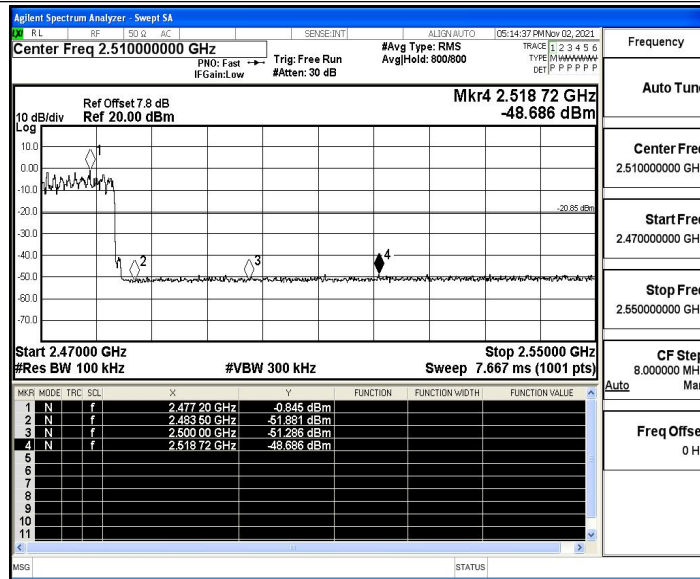
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480





A.7 Conducted Spurious Emission

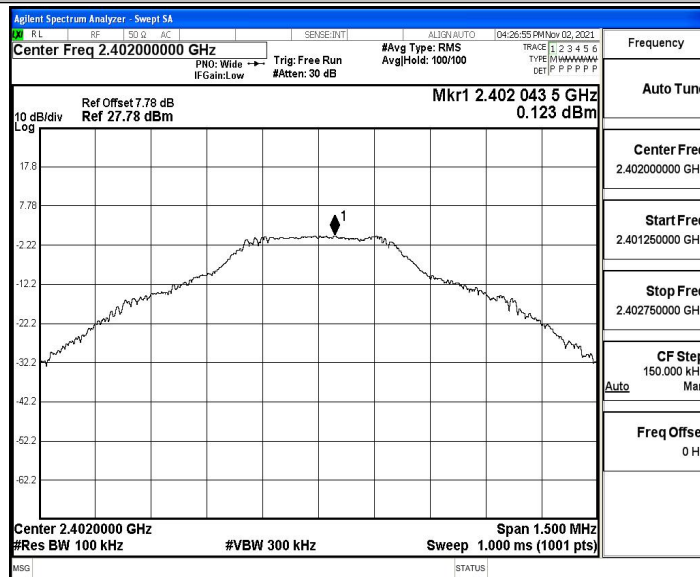
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.12	0.12	---	PASS
			30~1000	0.12	-61.71	≤ -19.88	PASS
			1000~26500	0.12	-47.82	≤ -19.88	PASS
		2441	Reference	1.52	1.52	---	PASS
			30~1000	1.52	-61.3	≤ -18.48	PASS
			1000~26500	1.52	-47.62	≤ -18.48	PASS
		2480	Reference	-0.16	-0.16	---	PASS
			30~1000	-0.16	-61.3	≤ -20.16	PASS
			1000~26500	-0.16	-46.98	≤ -20.16	PASS
2DH5	Ant1	2402	Reference	-1.16	-1.16	---	PASS
			30~1000	-1.16	-60.89	≤ -21.16	PASS
			1000~26500	-1.16	-47.31	≤ -21.16	PASS
		2441	Reference	-0.42	-0.42	---	PASS
			30~1000	-0.42	-62.27	≤ -20.42	PASS
			1000~26500	-0.42	-46.71	≤ -20.42	PASS
		2480	Reference	-2.52	-2.52	---	PASS
			30~1000	-2.52	-61.68	≤ -22.52	PASS
			1000~26500	-2.52	-47.44	≤ -22.52	PASS

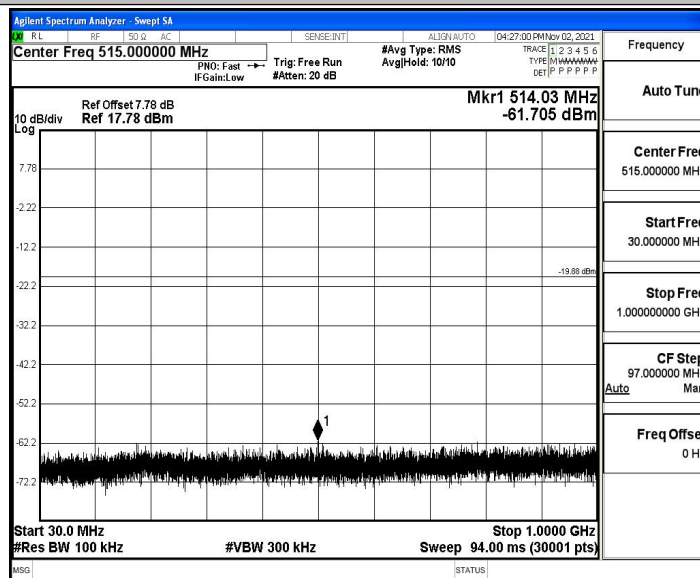


Test Graphs

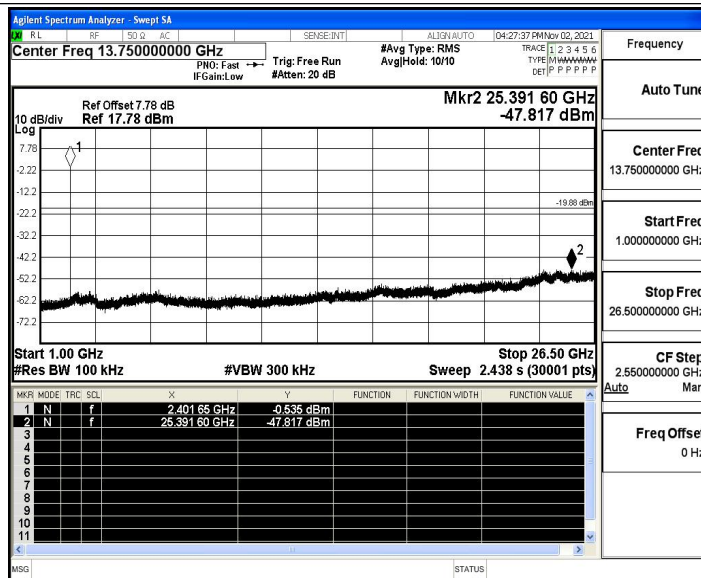
DH5_Ant1_2402_0~Reference



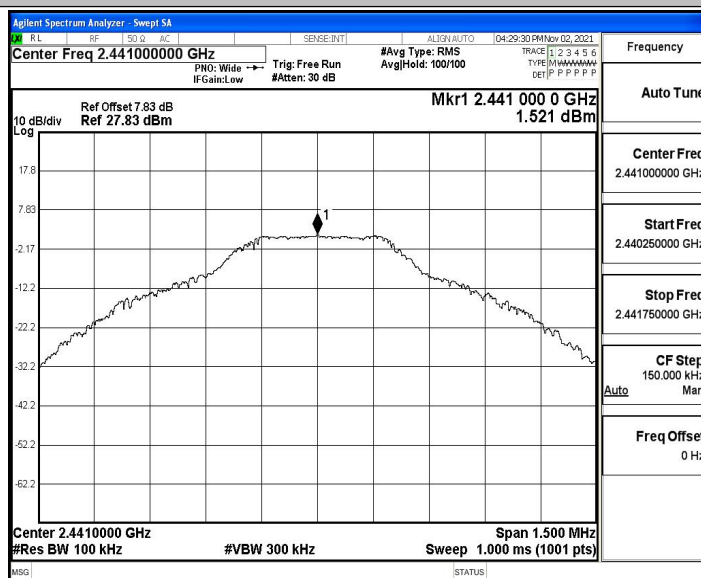
DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

