

RF Test Data for BT(BDR/EDR) (Conducted Measurement)**Product Name: Bluetooth TWS Earbuds****Trade Mark: Mezger Audio****Test Model: AC1****FCC ID: 2A7U8-AC1****Environmental Conditions**

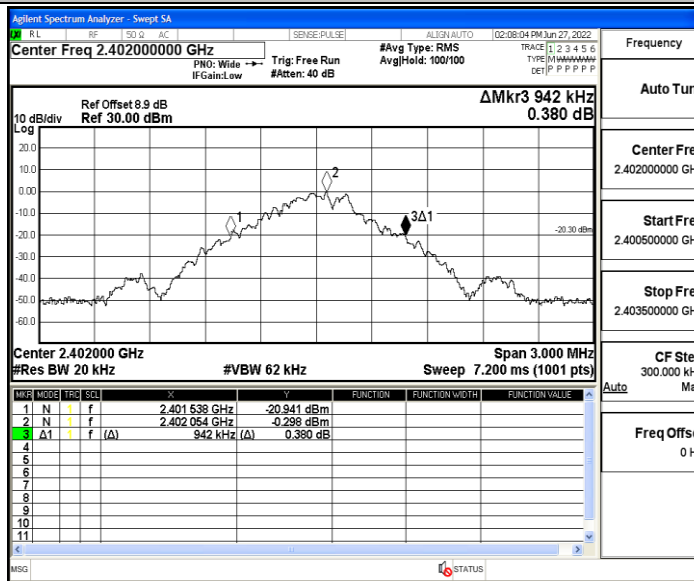
Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: 20dB Emission Bandwidth**Test Result**

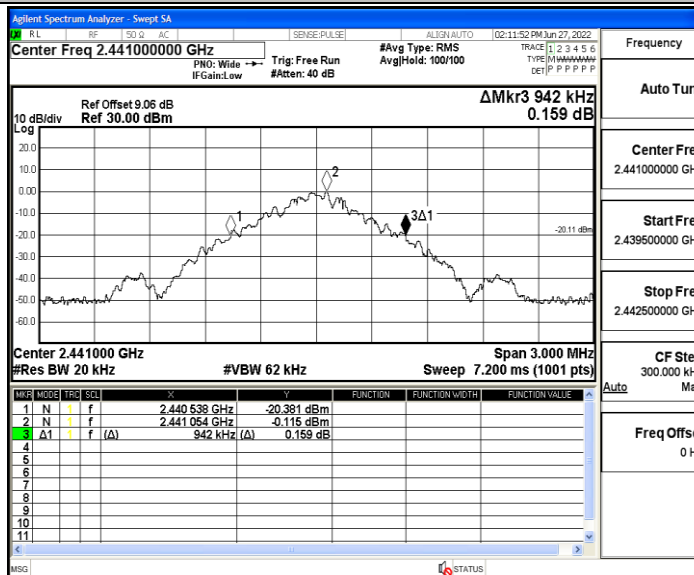
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.942	2401.538	2402.480	---	---
		2441	0.942	2440.538	2441.480	---	---
		2480	0.948	2479.532	2480.480	---	---
2DH5	Ant1	2402	1.326	2401.334	2402.660	---	---
		2441	1.284	2440.343	2441.627	---	---
		2480	1.209	2479.394	2480.603	---	---
3DH5	Ant1	2402	1.272	2401.352	2402.624	---	---
		2441	1.260	2440.355	2441.615	---	---
		2480	1.272	2479.352	2480.624	---	---

Test Graphs

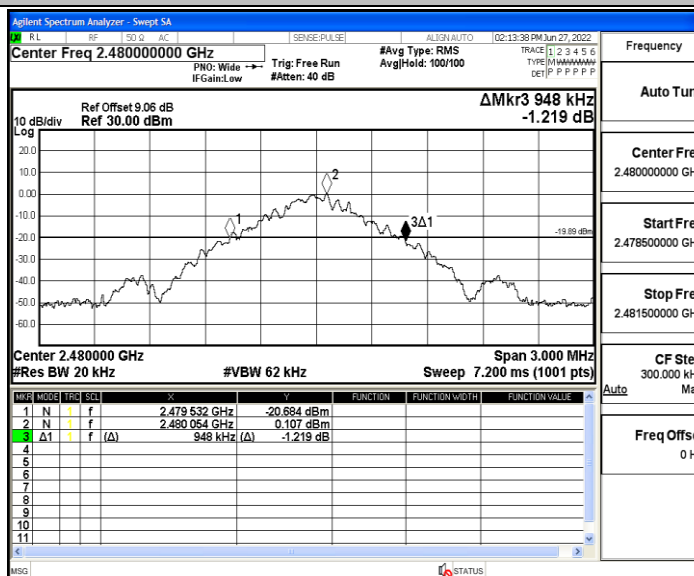
DH5_Ant1_2402



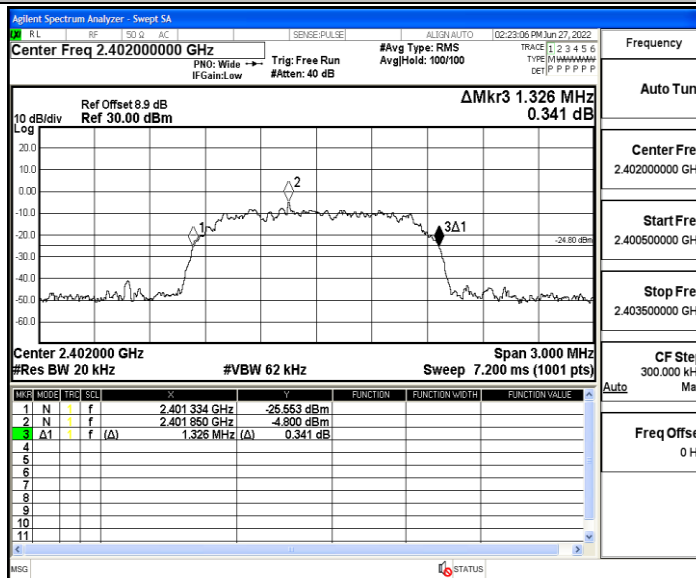
DH5_Ant1_2441



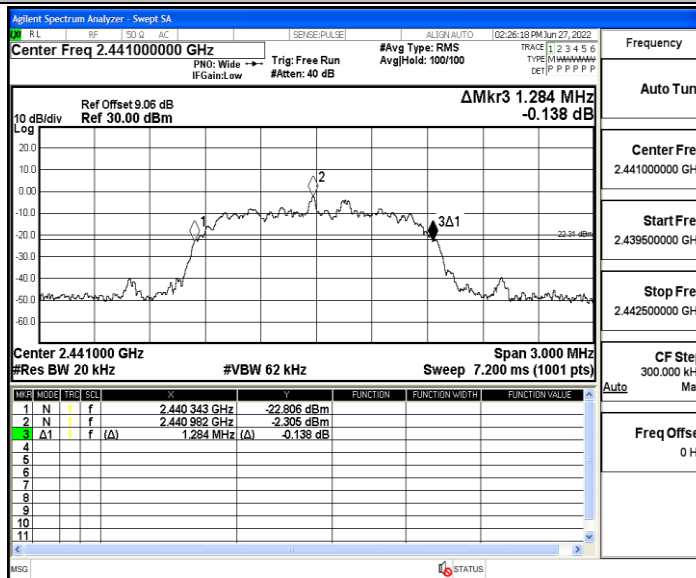
DH5_Ant1_2480



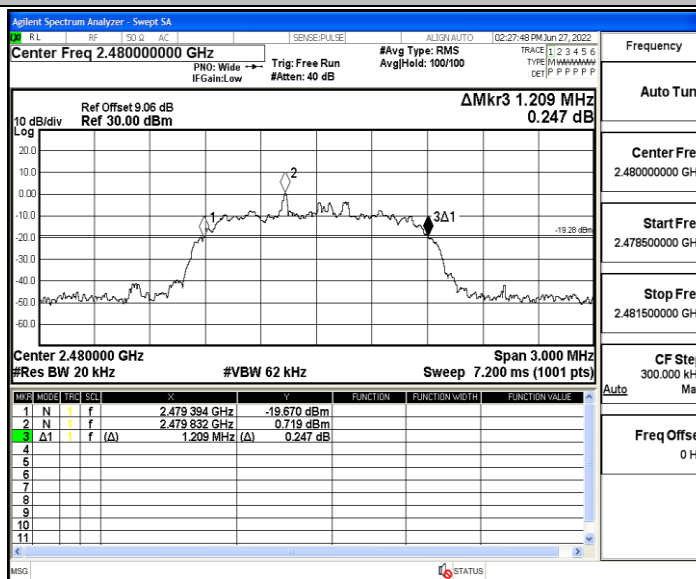
2DH5_Ant1_2402



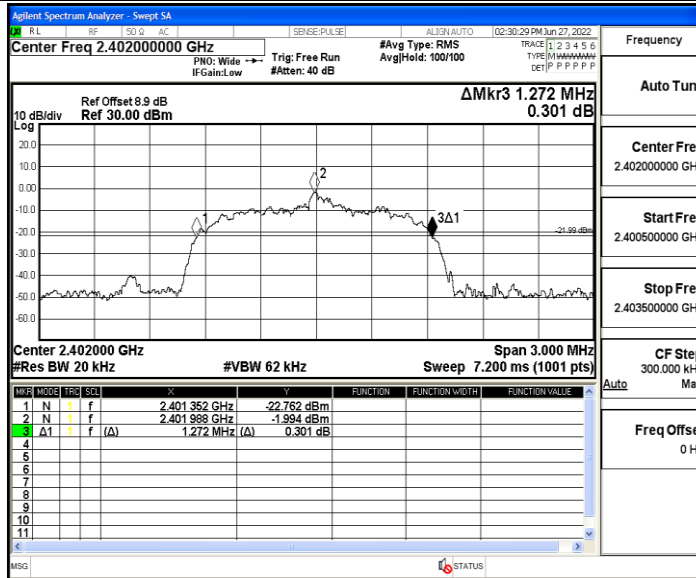
2DH5_Ant1_2441



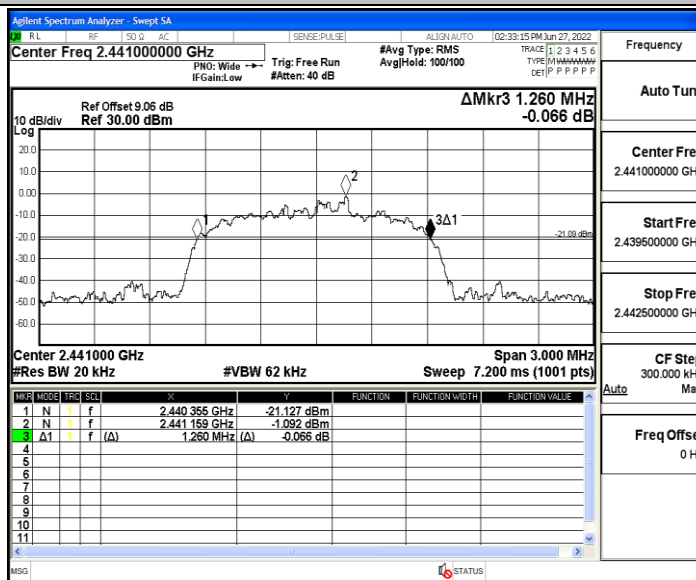
2DH5_Ant1_2480



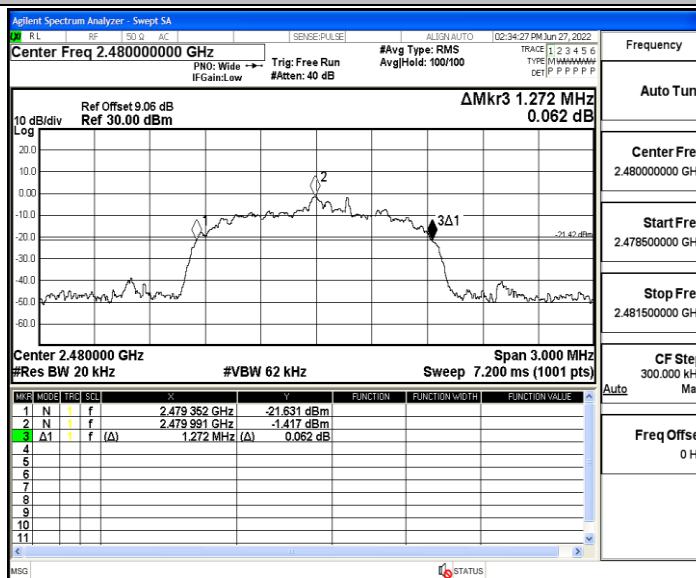
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



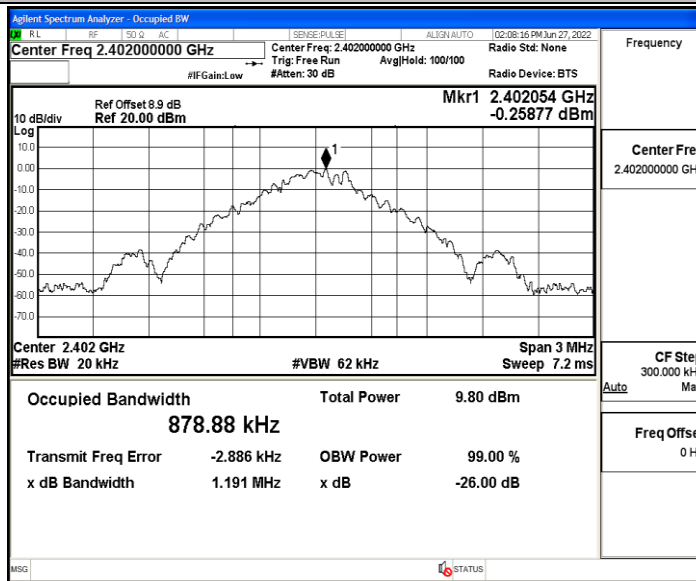
Appendix B: Occupied Channel Bandwidth

Test Result

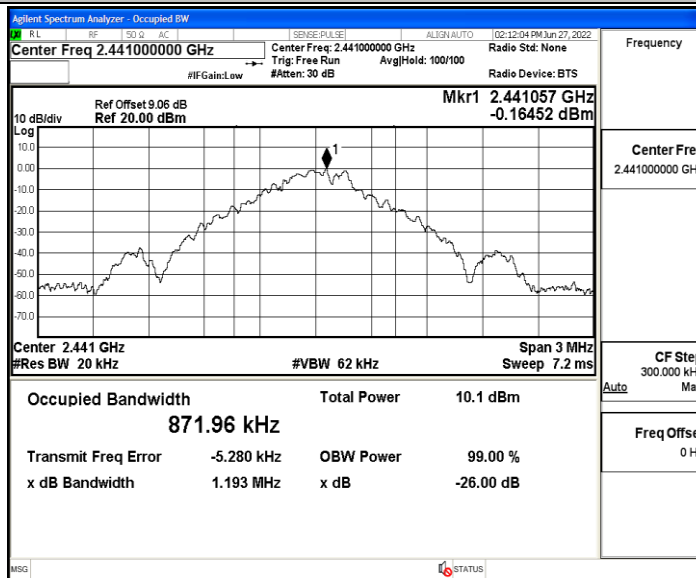
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87888	2401.558	2402.437	---	---
		2441	0.87196	2440.559	2441.431	---	---
		2480	0.89352	2479.551	2480.445	---	---
2DH5	Ant1	2402	1.1671	2401.412	2402.579	---	---
		2441	1.1666	2440.412	2441.578	---	---
		2480	1.1698	2479.409	2480.579	---	---
3DH5	Ant1	2402	1.1848	2401.401	2402.586	---	---
		2441	1.1621	2440.415	2441.577	---	---
		2480	1.1620	2479.414	2480.576	---	---

Test Graphs

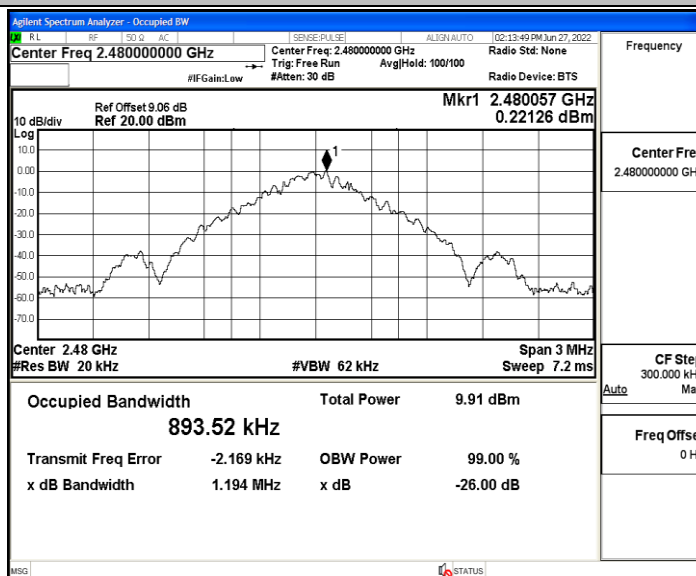
DH5_Ant1_2402



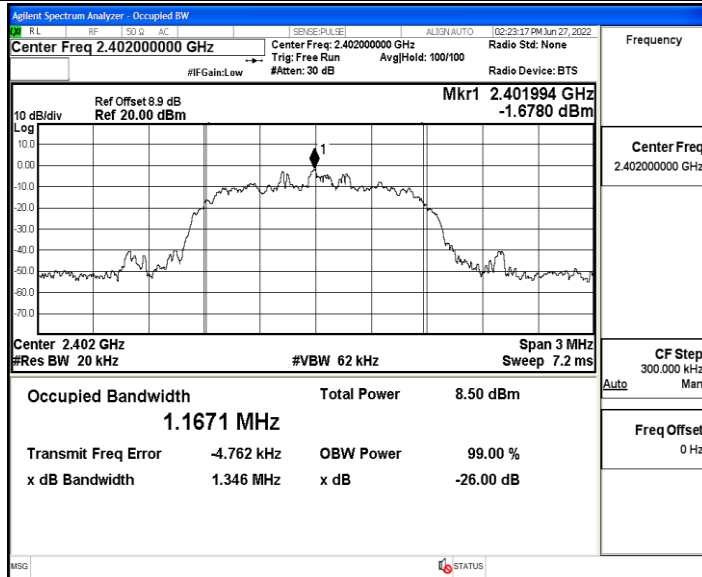
DH5_Ant1_2441



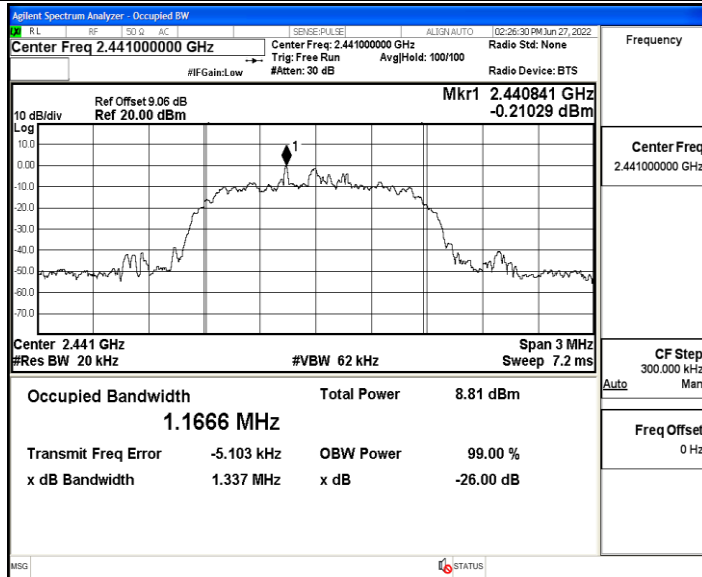
DH5_Ant1_2480



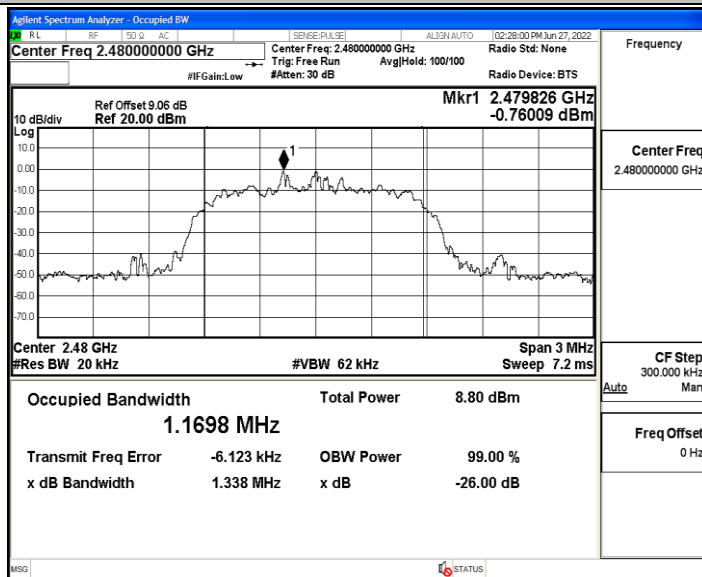
2DH5_Ant1_2402



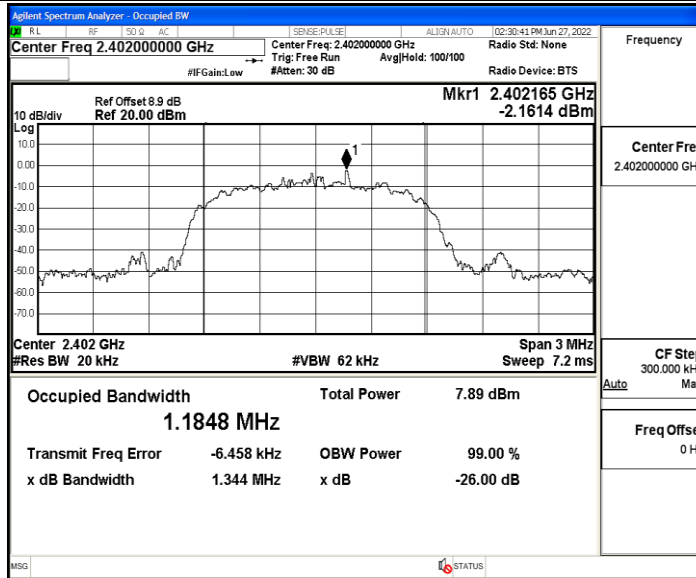
2DH5_Ant1_2441



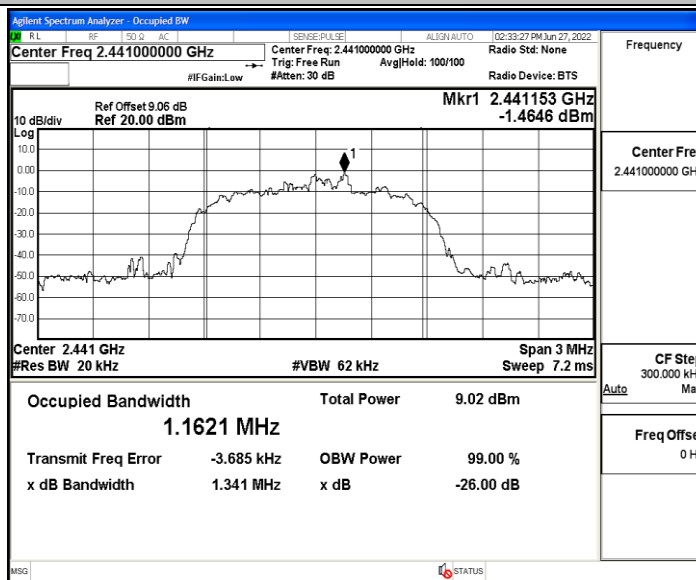
2DH5_Ant1_2480



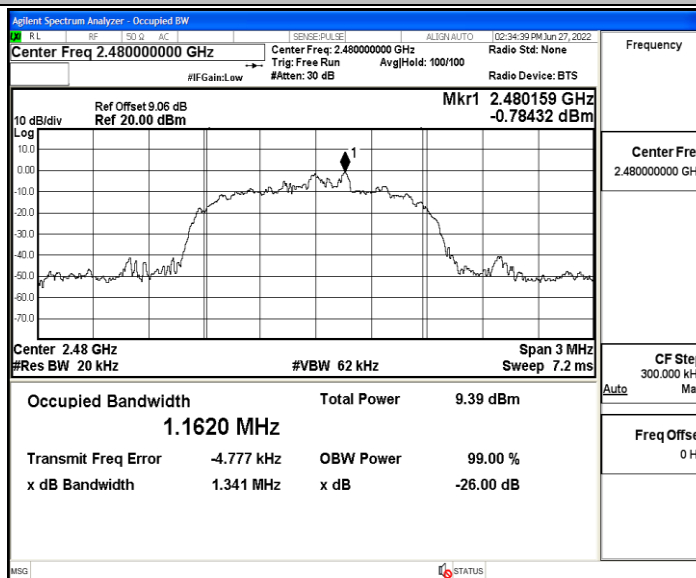
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



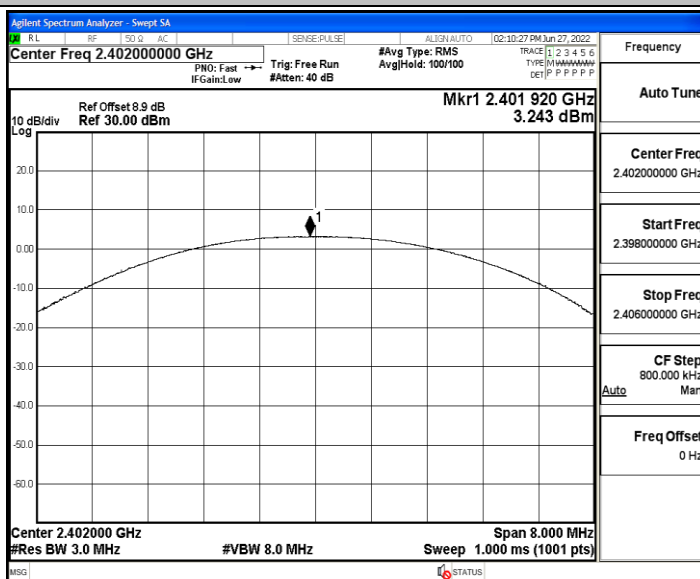
Appendix C: Maximum Peak conducted output power

Test Result

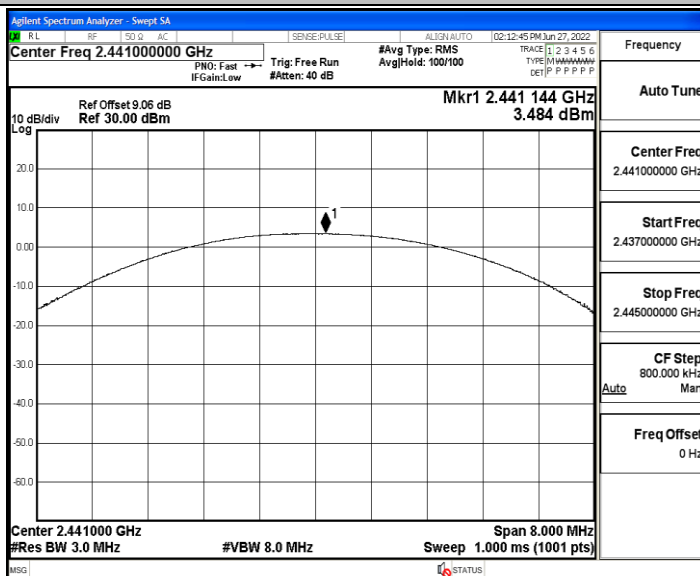
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	3.24	≤30	PASS
		2441	3.48	≤30	PASS
		2480	3.66	≤30	PASS
2DH5	Ant1	2402	3.19	≤20.97	PASS
		2441	3.49	≤20.97	PASS
		2480	3.61	≤20.97	PASS
3DH5	Ant1	2402	3.29	≤20.97	PASS
		2441	3.55	≤20.97	PASS
		2480	3.81	≤20.97	PASS

Test Graphs

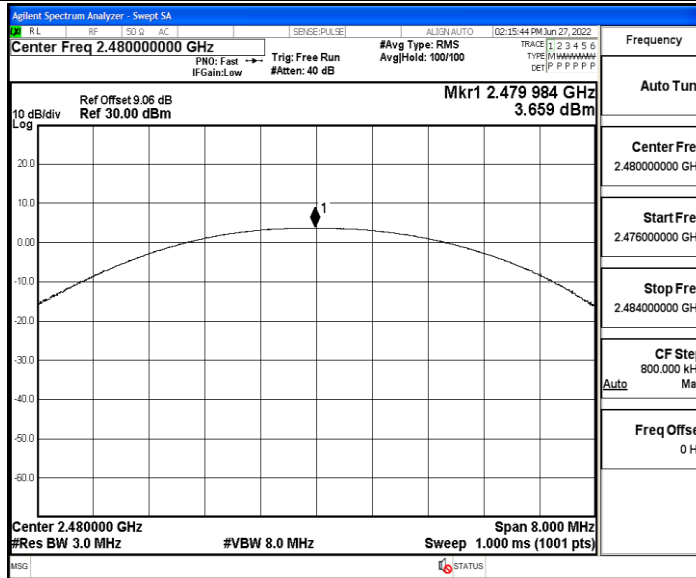
DH5_Ant1_2402



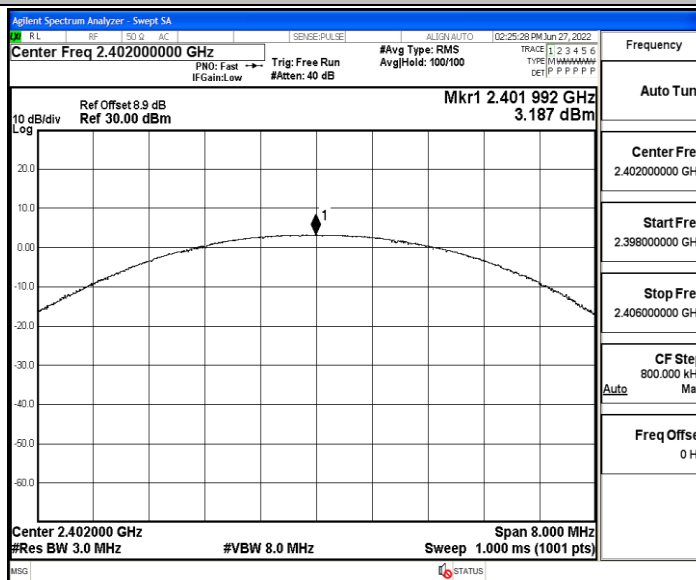
DH5_Ant1_2441



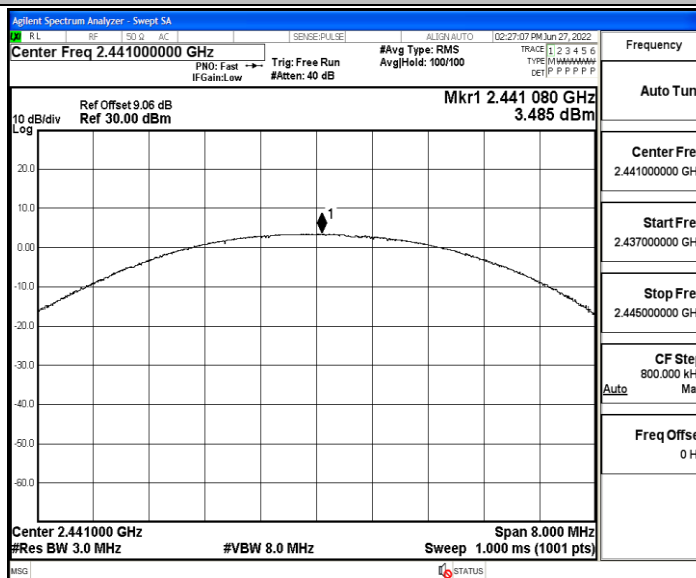
DH5_Ant1_2480



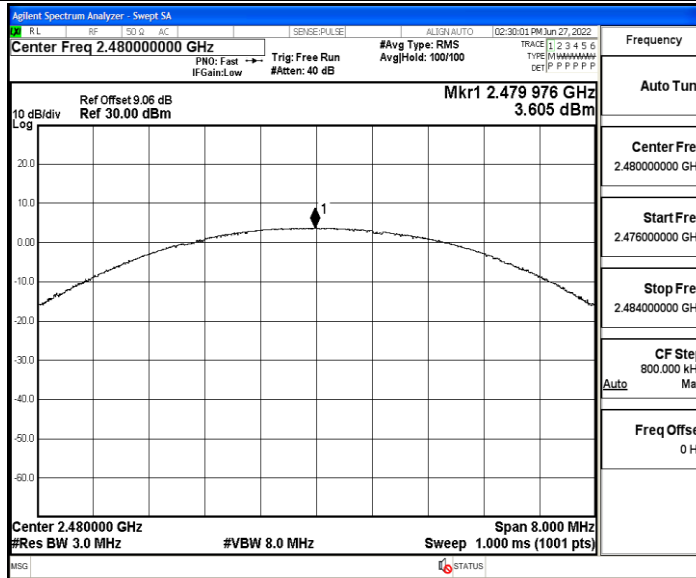
2DH5_Ant1_2402



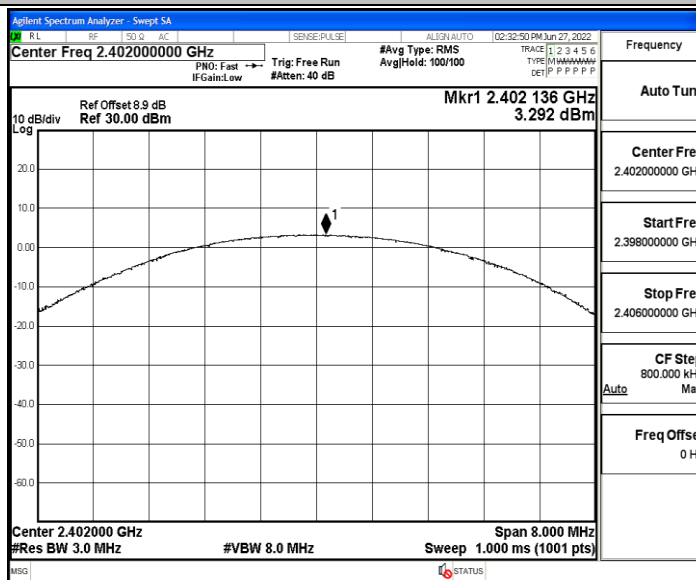
2DH5_Ant1_2441



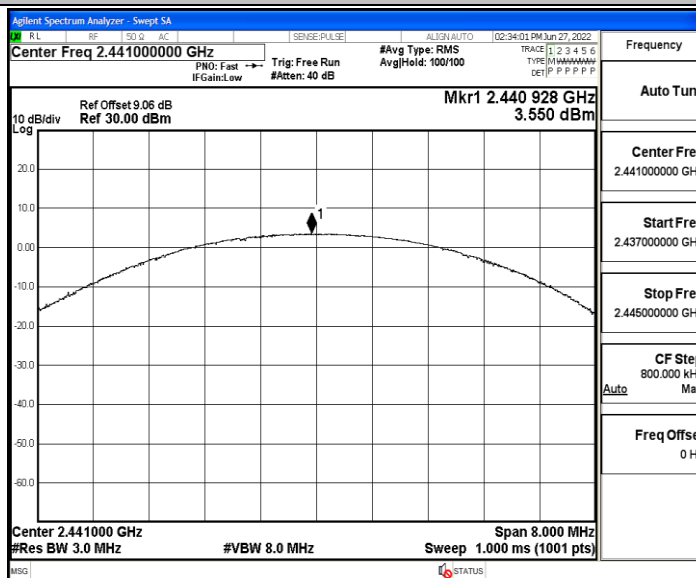
2DH5_Ant1_2480



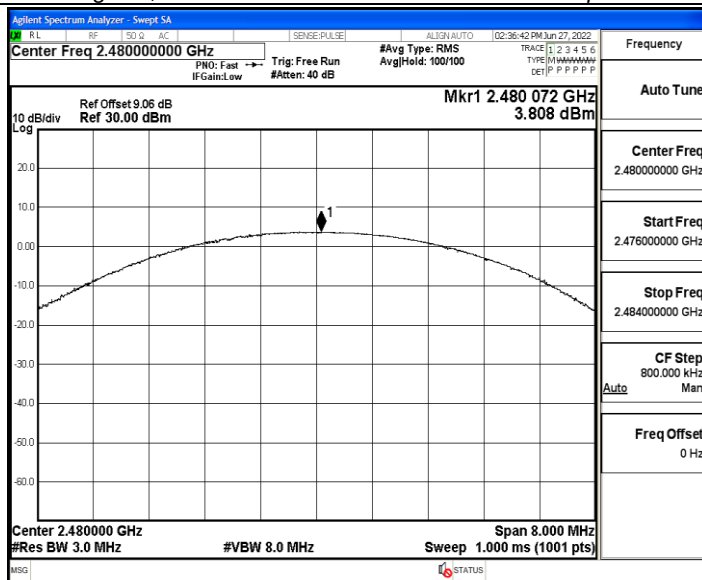
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



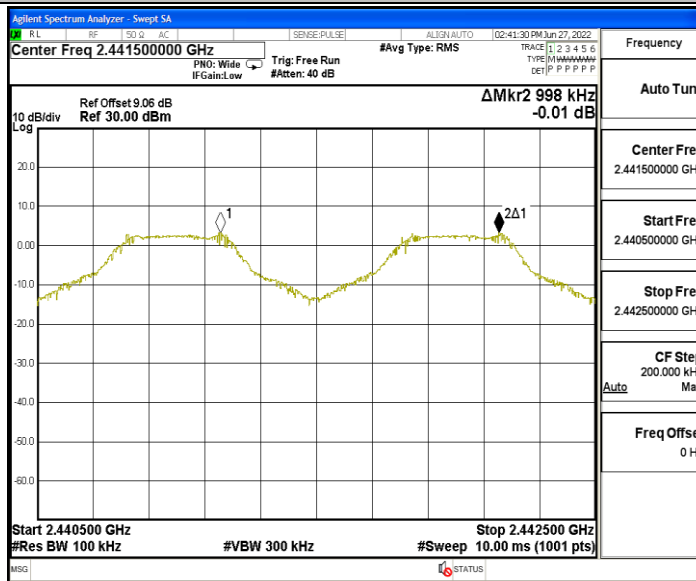
Appendix D: Carrier frequency separation

Test Result

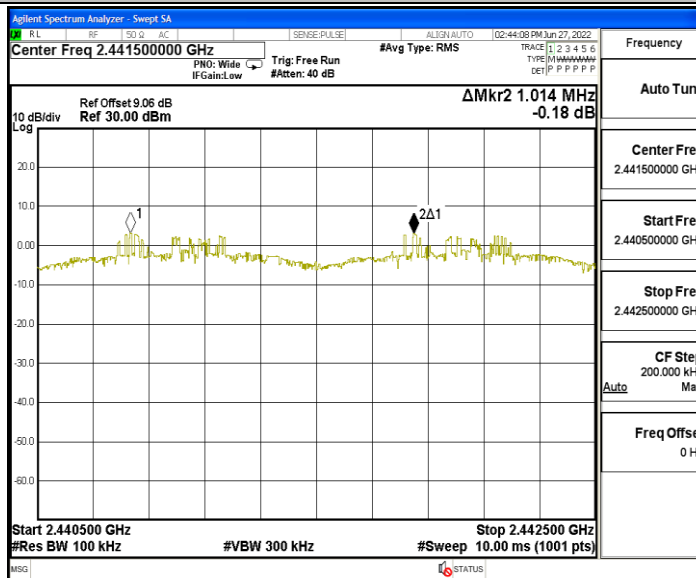
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.998	≥0.948	PASS
2DH5	Ant1	Hop	1.014	≥0.884	PASS
3DH5	Ant1	Hop	0.852	≥0.848	PASS

Test Graphs

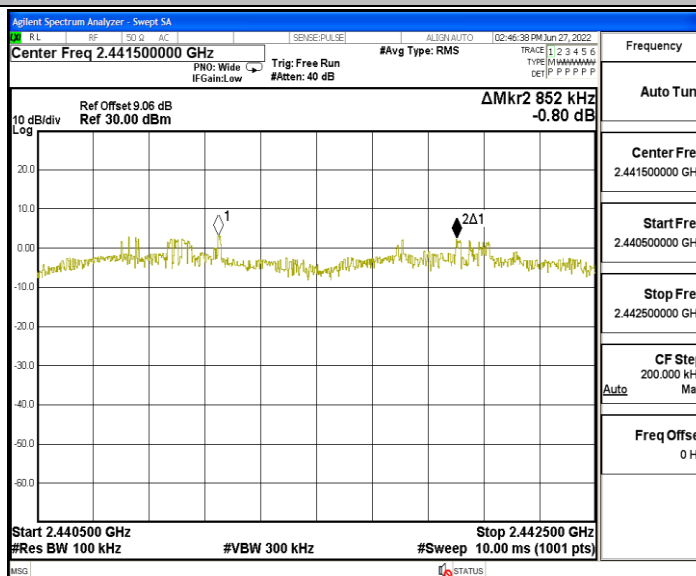
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

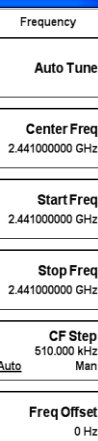
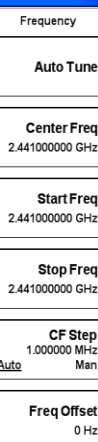


Appendix E: Time of occupancy

Test Result

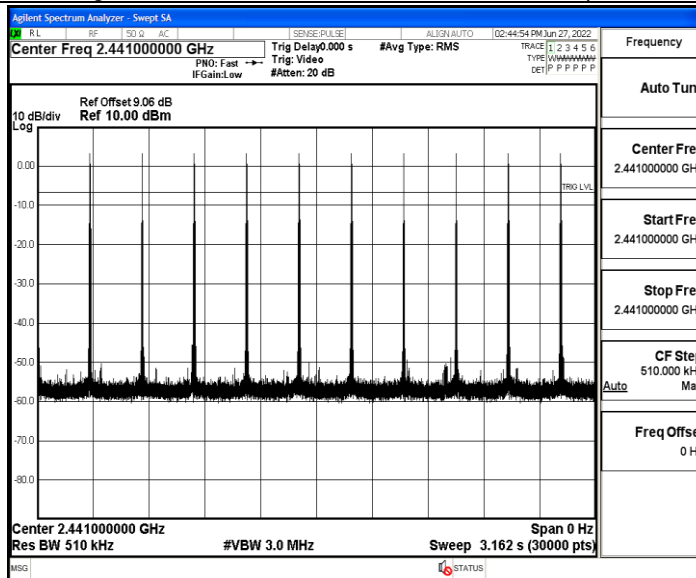
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	110	0.317	≤0.4	PASS
2DH5	Ant1	Hop	2.88	110	0.317	≤0.4	PASS
3DH5	Ant1	Hop	2.88	110	0.317	≤0.4	PASS

DH5_Ant1_Hop

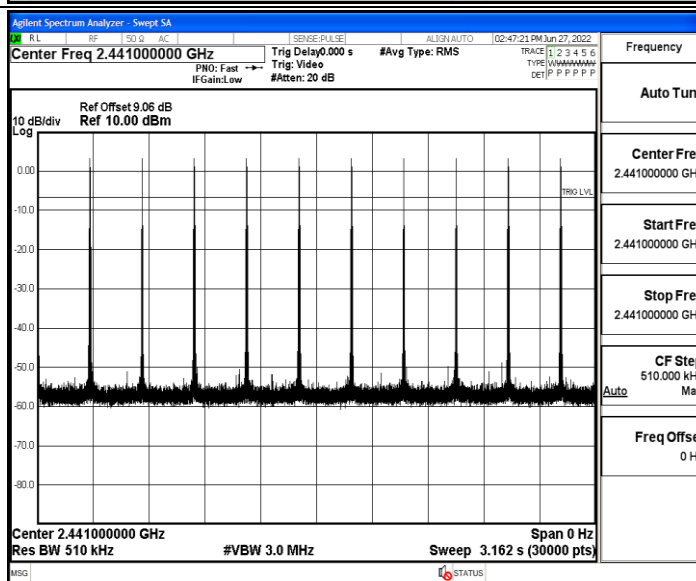
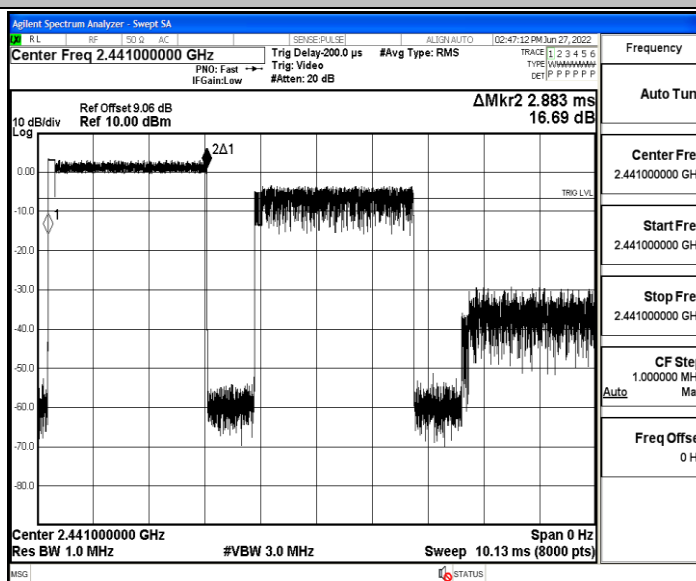


2DH5_Ant1_Hop





3DH5_Ant1_Hop



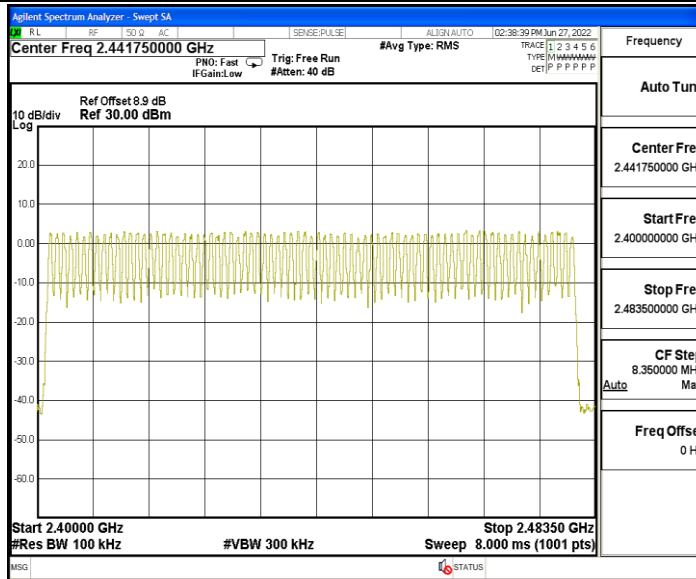
Appendix F: Number of hopping channels

Test Result

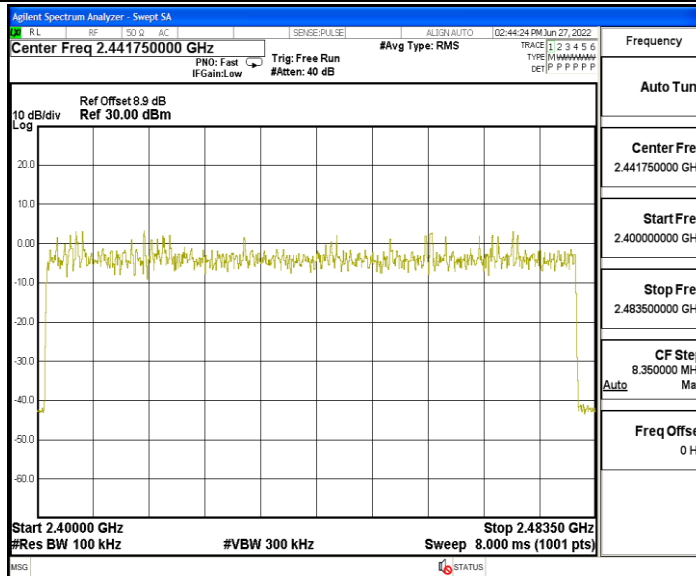
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

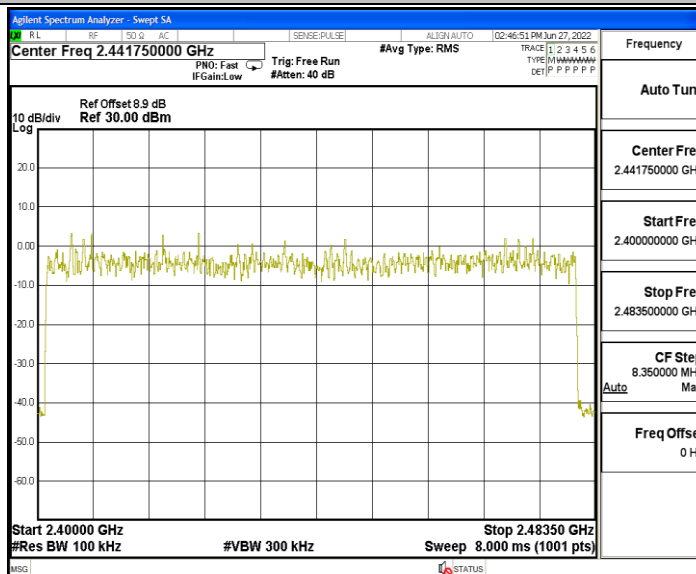
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



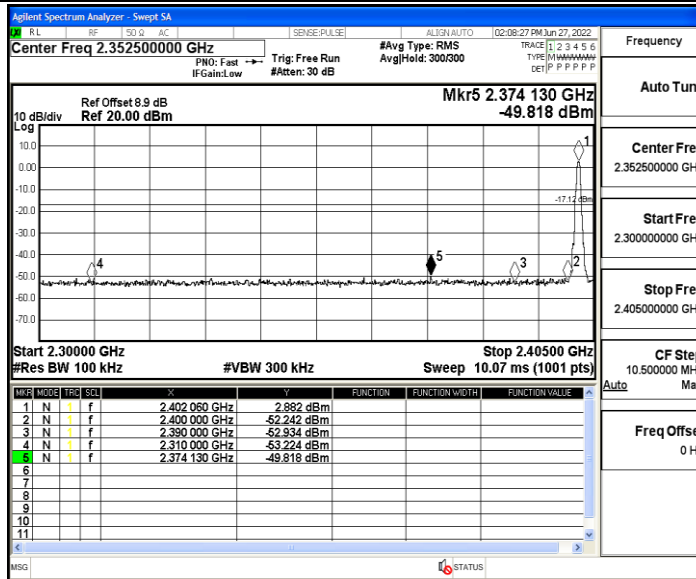
Appendix G: Band edge measurements

Test Result

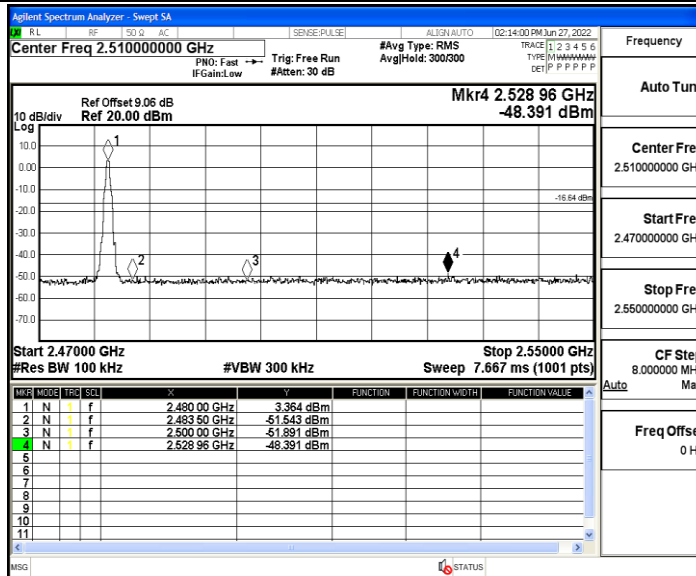
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.88	-49.82	≤ -17.12	PASS
		High	2480	3.36	-48.39	≤ -16.64	PASS
		Low	Hop_2402	2.26	-50.34	≤ -17.74	PASS
		High	Hop_2480	3.49	-49.66	≤ -16.51	PASS
2DH5	Ant1	Low	2402	2.81	-50.26	≤ -17.2	PASS
		High	2480	1.82	-48.73	≤ -18.18	PASS
		Low	Hop_2402	2.51	-49.95	≤ -17.49	PASS
		High	Hop_2480	2.30	-49.11	≤ -17.7	PASS
3DH5	Ant1	Low	2402	3.02	-50.17	≤ -16.98	PASS
		High	2480	3.58	-48.59	≤ -16.42	PASS
		Low	Hop_2402	1.01	-50.19	≤ -18.99	PASS
		High	Hop_2480	3.52	-48.35	≤ -16.48	PASS

Test Graphs

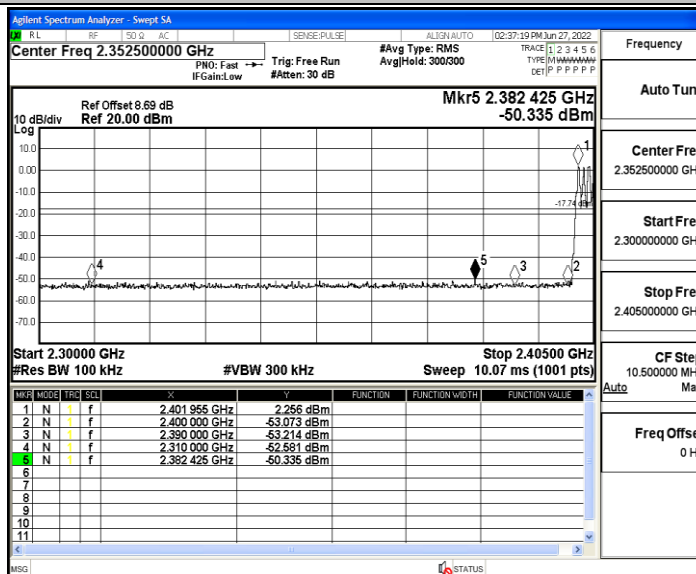
DH5_Ant1_Low_2402



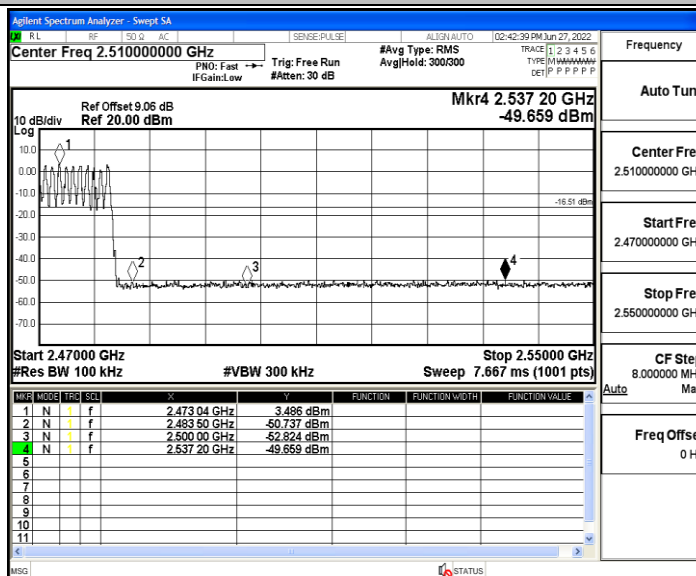
DH5_Ant1_High_2480



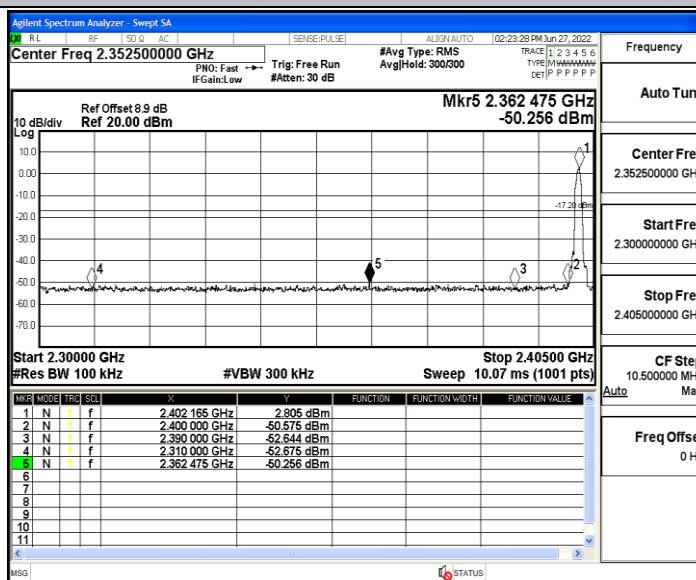
DH5_Ant1_Low_Hop_2402



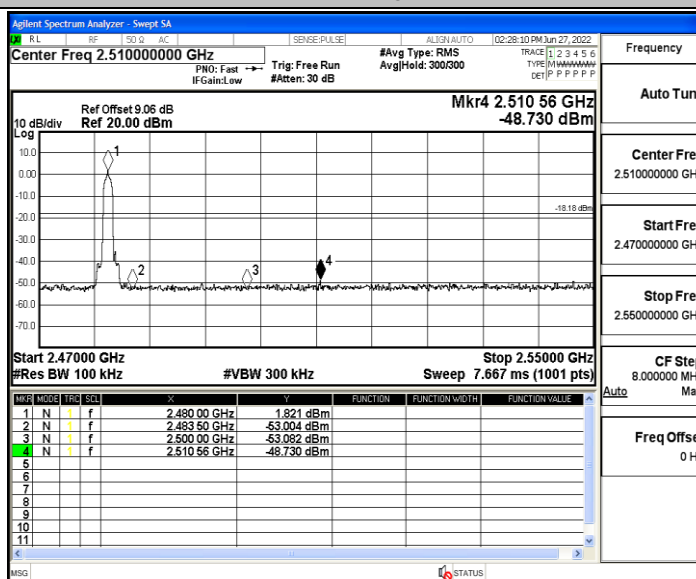
DH5_Ant1_High_Hop_2480



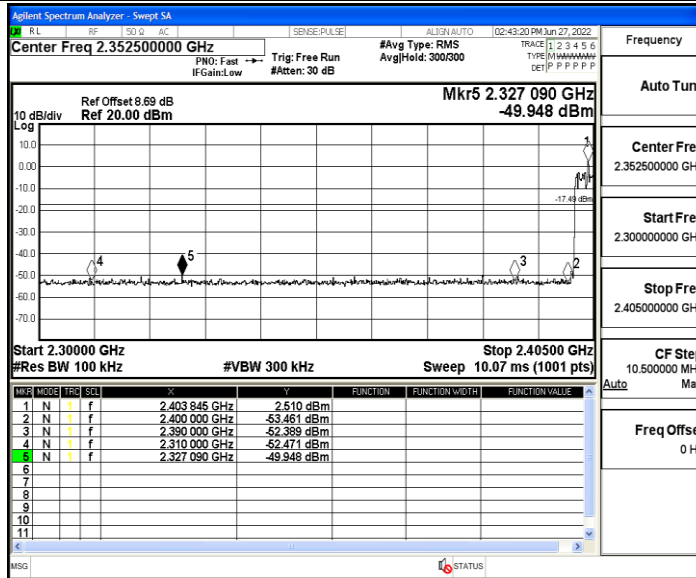
2DH5_Ant1_Low_2402



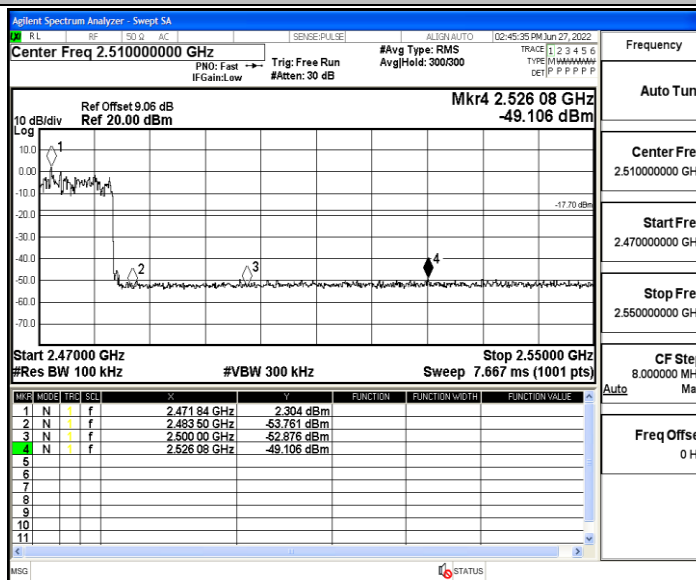
2DH5_Ant1_High_2480



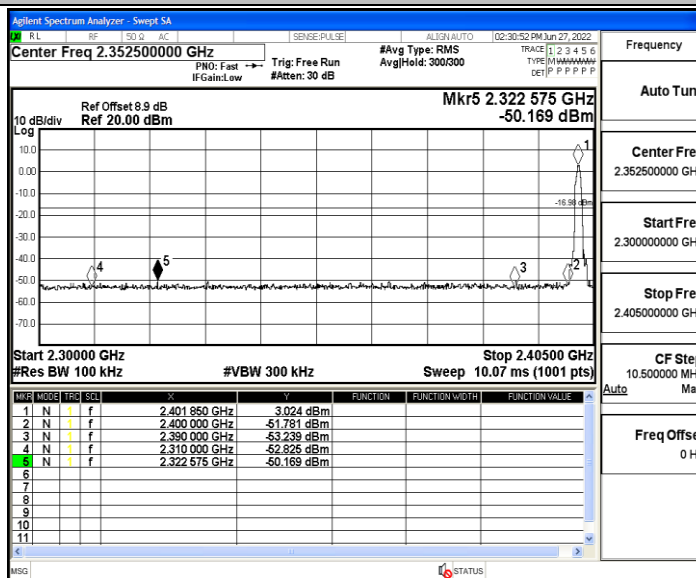
2DH5_Ant1_Low_Hop_2402



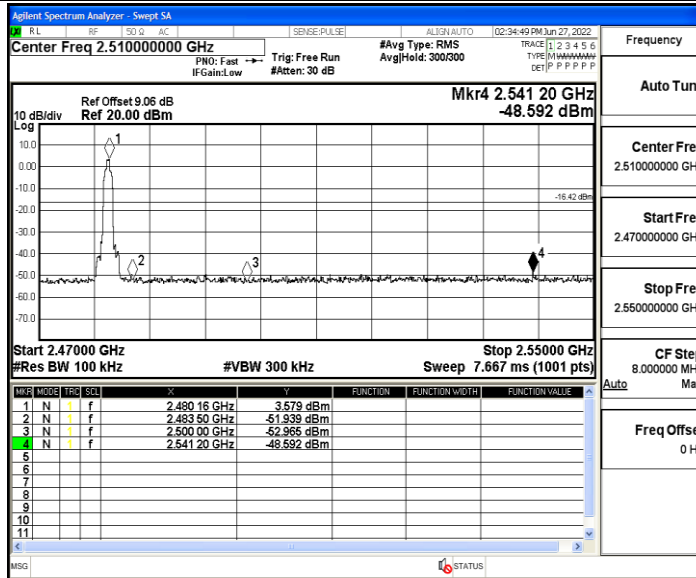
2DH5_Ant1_High_Hop_2480



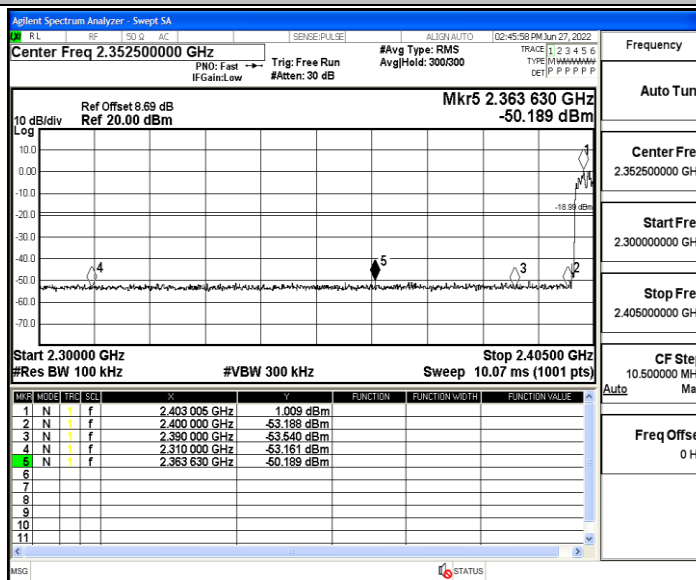
3DH5_Ant1_Low_2402



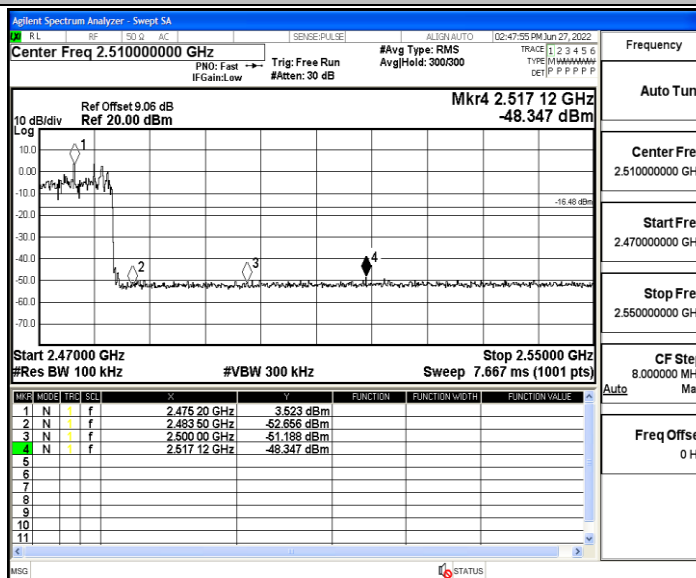
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



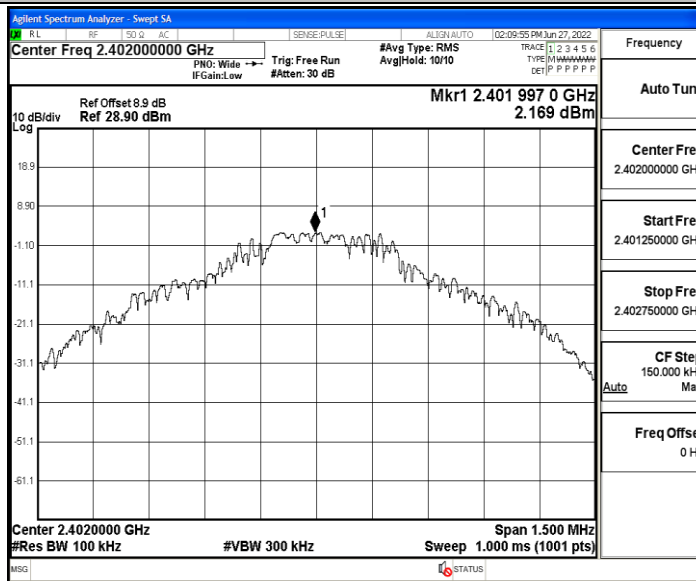
Appendix H: Conducted Spurious Emission

Test Result

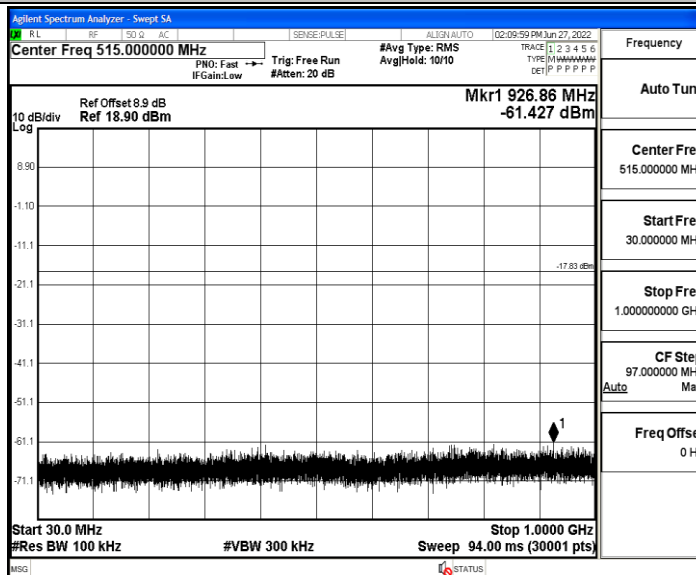
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.17	2.17	---	PASS
			30~1000	2.17	-61.43	≤-17.83	PASS
			1000~26500	2.17	-51.55	≤-17.83	PASS
		2441	Reference	2.39	2.39	---	PASS
			30~1000	2.39	-61.56	≤-17.61	PASS
			1000~26500	2.39	-51.62	≤-17.61	PASS
		2480	Reference	2.68	2.68	---	PASS
			30~1000	2.68	-61.79	≤-17.32	PASS
			1000~26500	2.68	-51.73	≤-17.32	PASS
2DH5	Ant1	2402	Reference	-1.33	-1.33	---	PASS
			30~1000	-1.33	-61.92	≤-21.33	PASS
			1000~26500	-1.33	-51.17	≤-21.33	PASS
		2441	Reference	2.20	2.20	---	PASS
			30~1000	2.20	-60.58	≤-17.8	PASS
			1000~26500	2.20	-51.31	≤-17.8	PASS
		2480	Reference	-0.74	-0.74	---	PASS
			30~1000	-0.74	-60.78	≤-20.74	PASS
			1000~26500	-0.74	-51.5	≤-20.74	PASS
3DH5	Ant1	2402	Reference	2.01	2.01	---	PASS
			30~1000	2.01	-61.83	≤-17.99	PASS
			1000~26500	2.01	-51.21	≤-17.99	PASS
		2441	Reference	1.39	1.39	---	PASS
			30~1000	1.39	-61.33	≤-18.61	PASS
			1000~26500	1.39	-51.01	≤-18.61	PASS
		2480	Reference	-1.40	-1.40	---	PASS
			30~1000	-1.40	-60.92	≤-21.4	PASS
			1000~26500	-1.40	-51.98	≤-21.4	PASS

Test Graphs

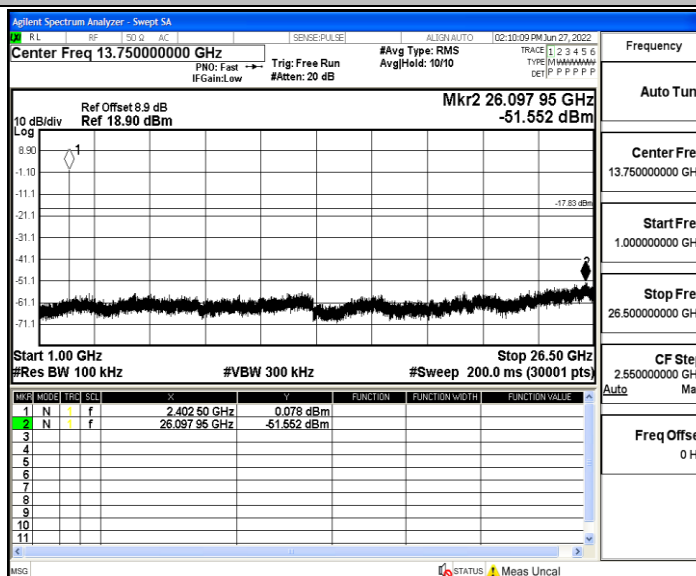
DH5_Ant1_2402_0~Reference



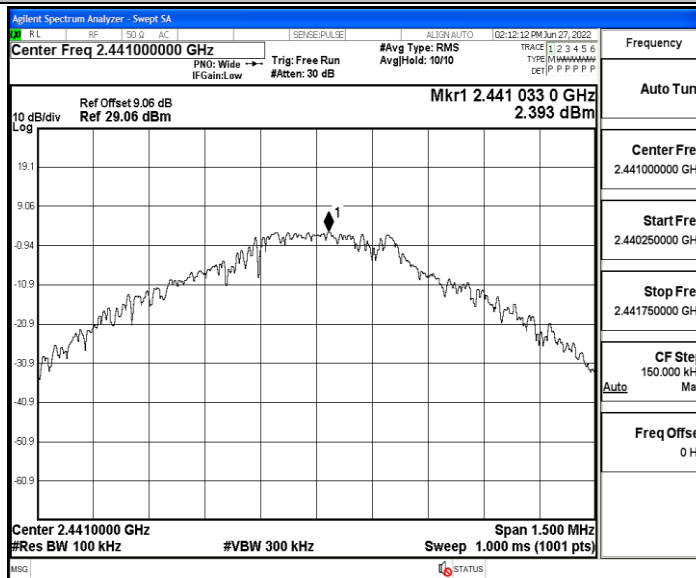
DH5_Ant1_2402_30~1000



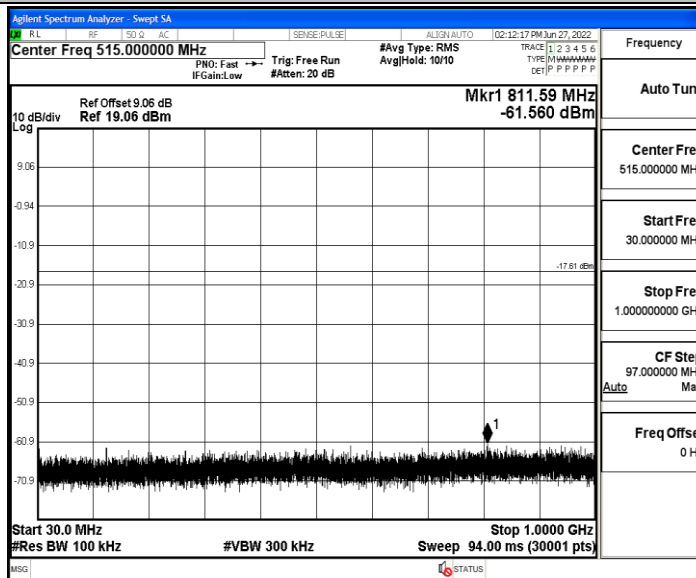
DH5_Ant1_2402_1000~26500



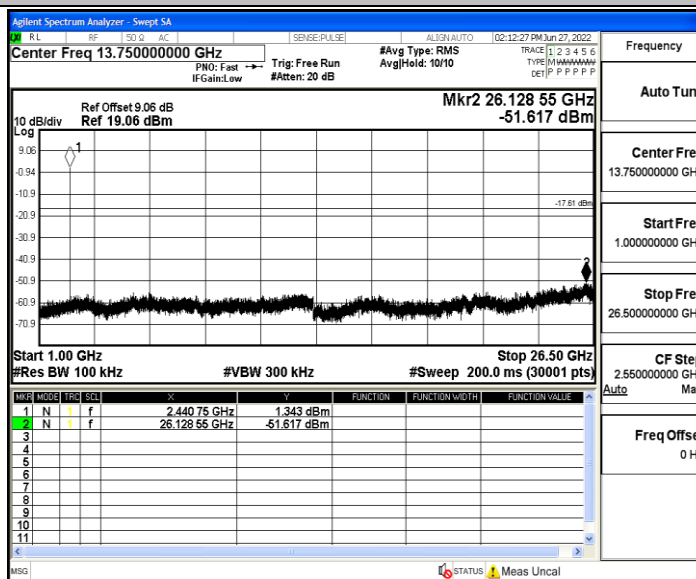
DH5_Ant1_2441_0~Reference



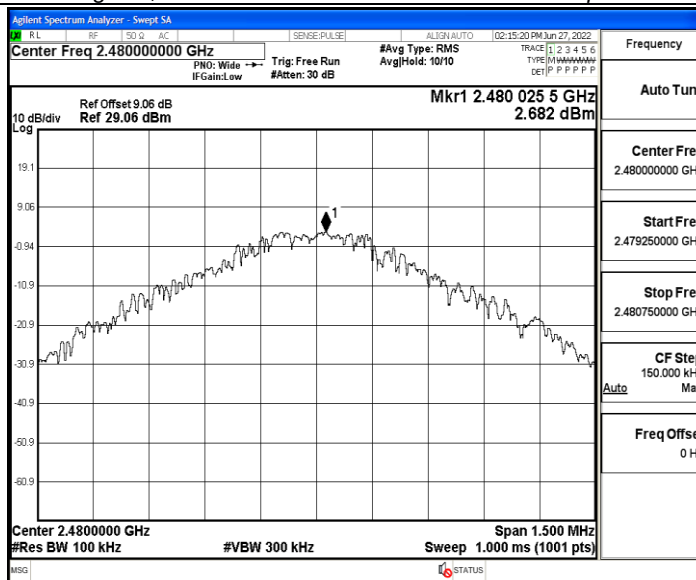
DH5_Ant1_2441_30~1000



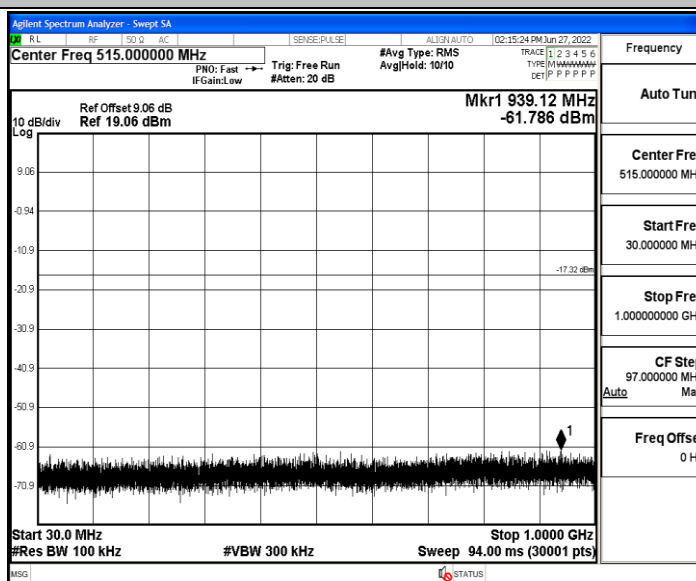
DH5_Ant1_2441_1000~26500



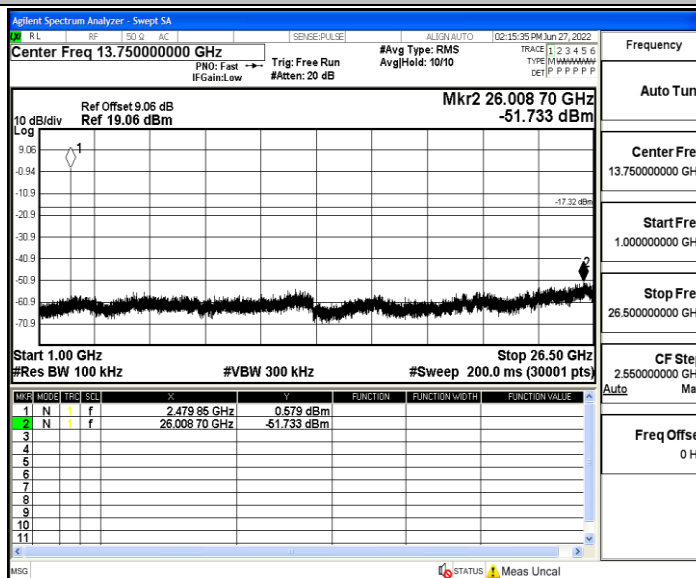
DH5_Ant1_2480_0~Reference



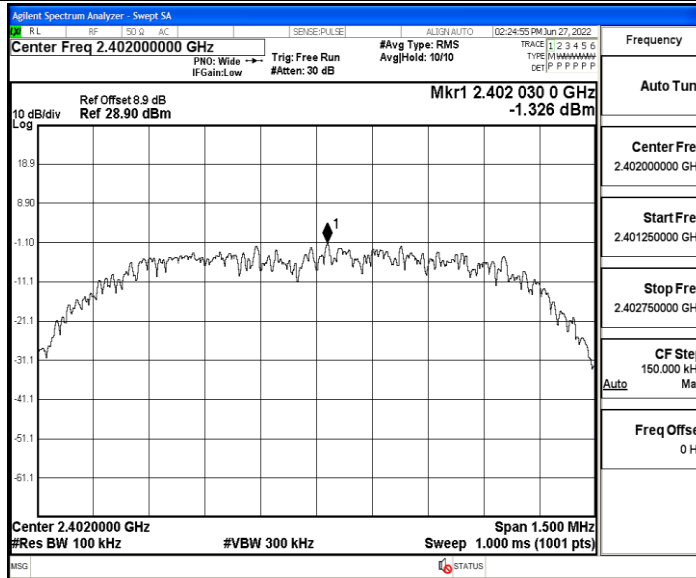
DH5_Ant1_2480_30~1000



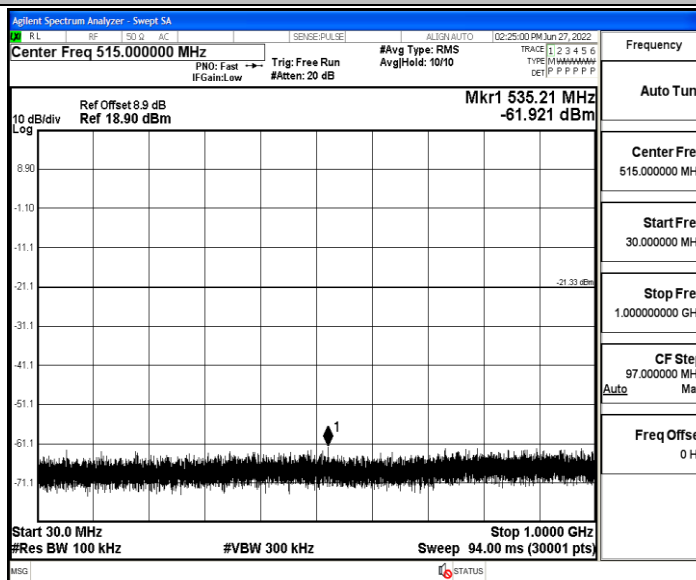
DH5_Ant1_2480_1000~26500



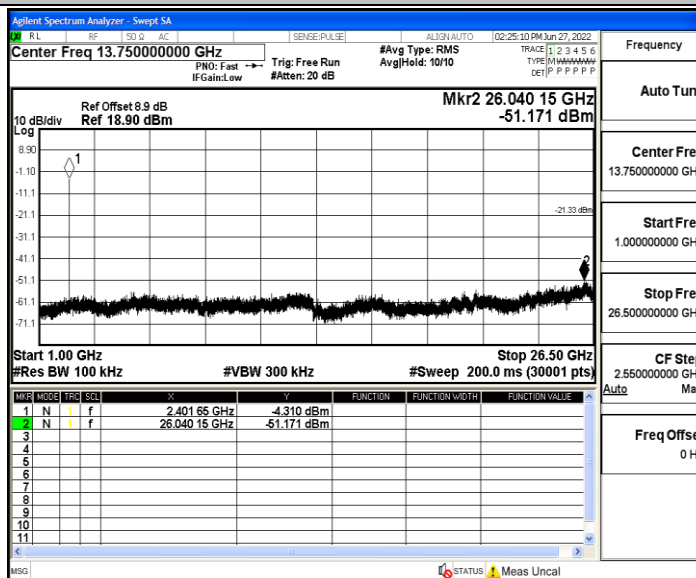
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference