

Appendix A

RF Test Data for BT(BDR/EDR) (Conducted Measurement)

Product Name: Smart phone

Trade Mark: 

Test Model: K50

FCC ID: 2APX7K50

Environmental Conditions

Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Nancy Li
Supervised by:	Hugo Chen

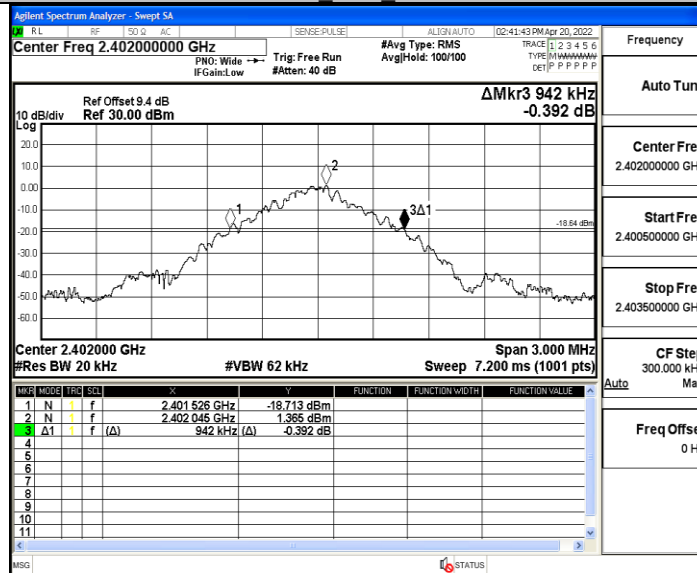
Appendix A: 20dB Emission Bandwidth

Test Result

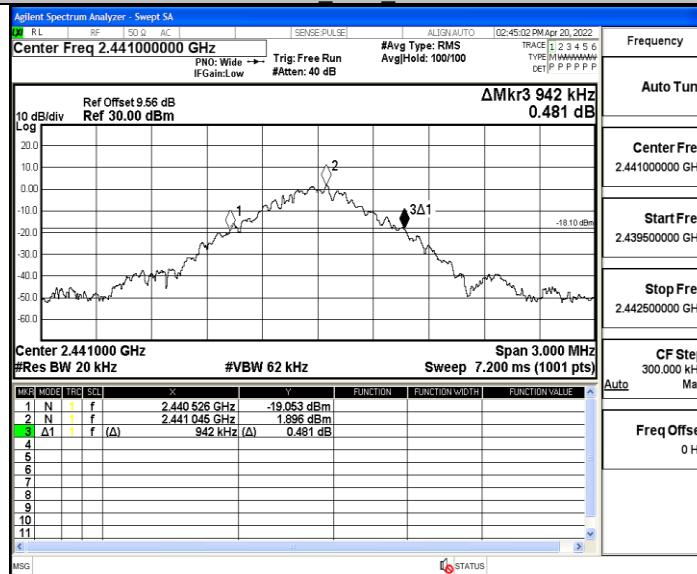
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.942	2401.526	2402.468	---	---
		2441	0.942	2440.526	2441.468	---	---
		2480	0.939	2479.529	2480.468	---	---
2DH5	Ant1	2402	1.317	2401.331	2402.648	---	---
		2441	1.317	2440.331	2441.648	---	---
		2480	1.326	2479.328	2480.654	---	---
3DH5	Ant1	2402	1.272	2401.346	2402.618	---	---
		2441	1.302	2440.337	2441.639	---	---
		2480	1.284	2479.349	2480.633	---	---

Test Graphs

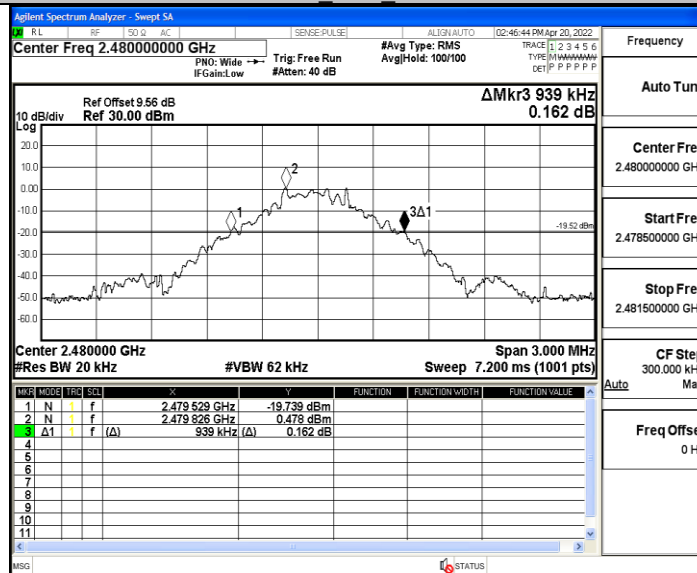
DH5_Ant1_2402



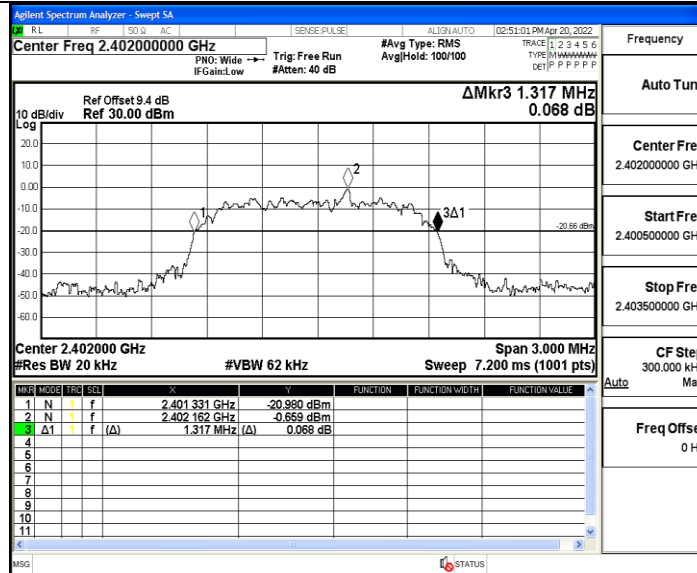
DH5_Ant1_2441



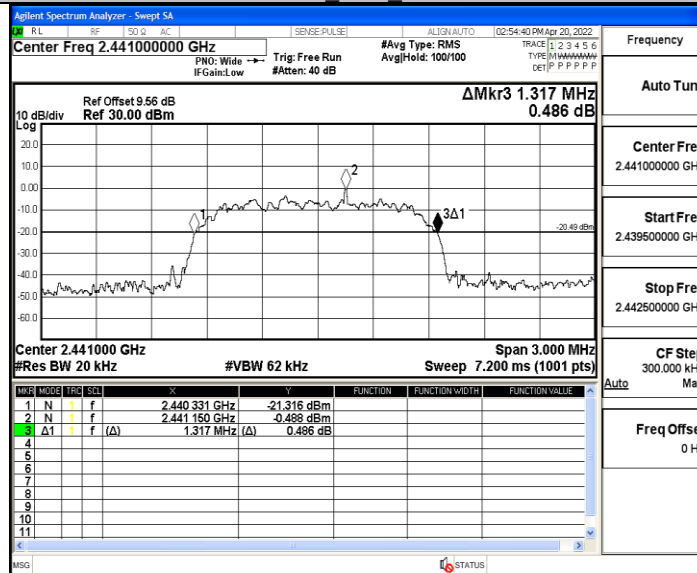
DH5_Ant1_2480



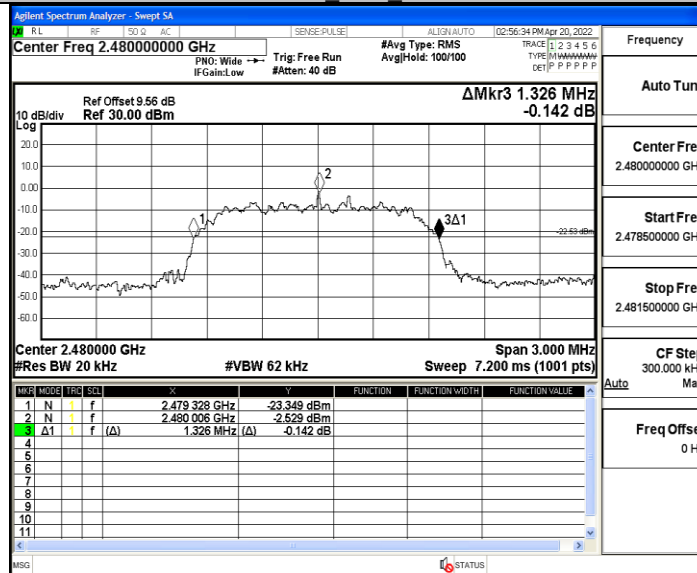
2DH5_Ant1_2402



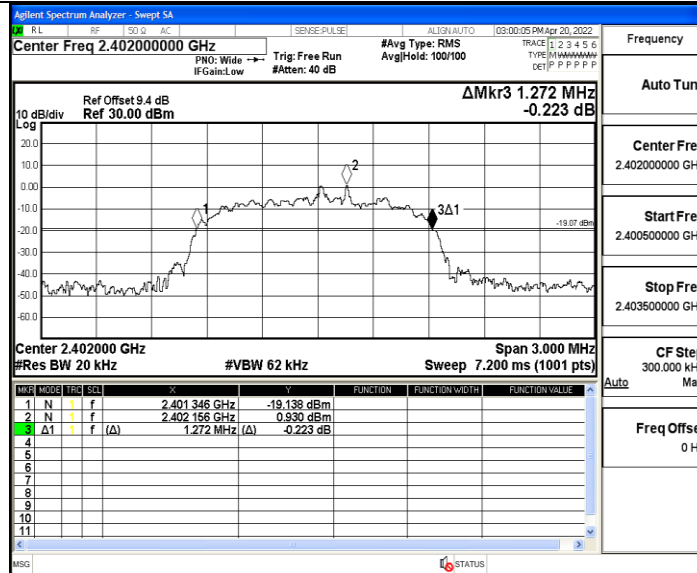
2DH5_Ant1_2441



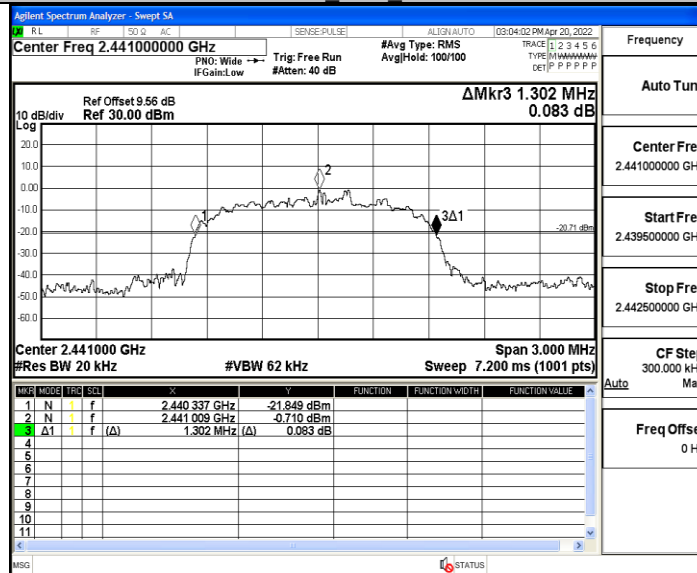
2DH5_Ant1_2480



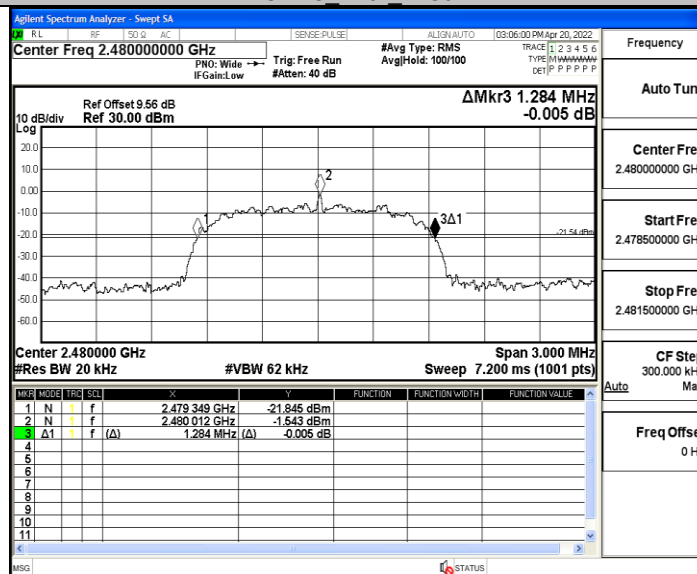
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



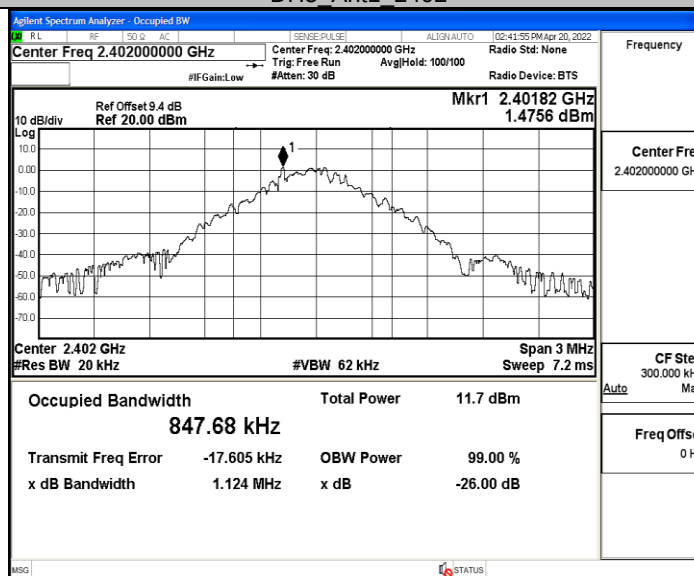
Appendix B: Occupied Channel Bandwidth

Test Result

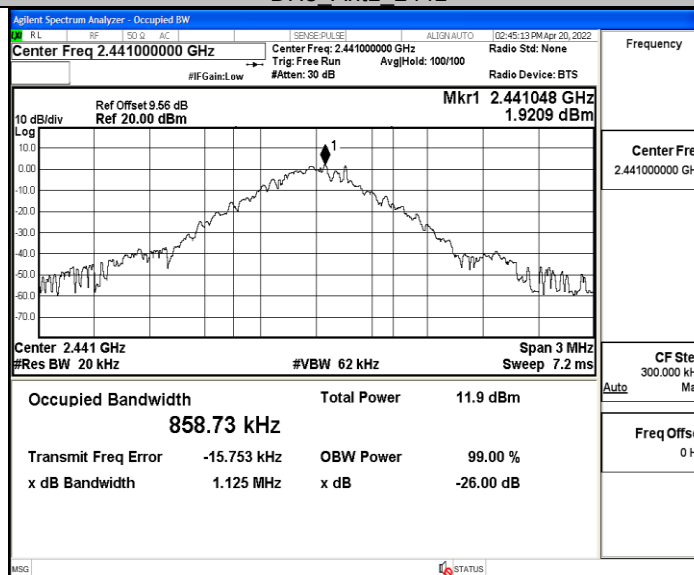
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.84768	2401.559	2402.406	---	---
		2441	0.85873	2440.555	2441.414	---	---
		2480	0.83759	2479.567	2480.404	---	---
2DH5	Ant1	2402	1.1881	2401.396	2402.584	---	---
		2441	1.1858	2440.398	2441.584	---	---
		2480	1.1876	2479.397	2480.584	---	---
3DH5	Ant1	2402	1.1950	2401.387	2402.582	---	---
		2441	1.1988	2440.385	2441.584	---	---
		2480	1.1989	2479.384	2480.583	---	---

Test Graphs

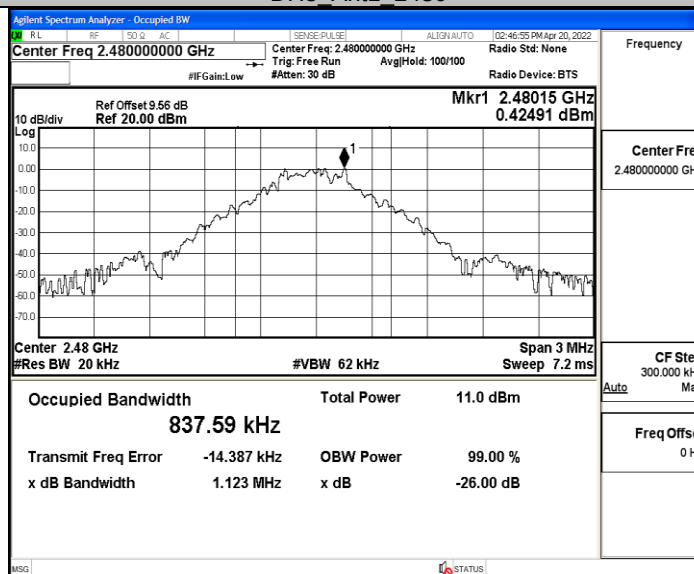
DH5_Ant1_2402



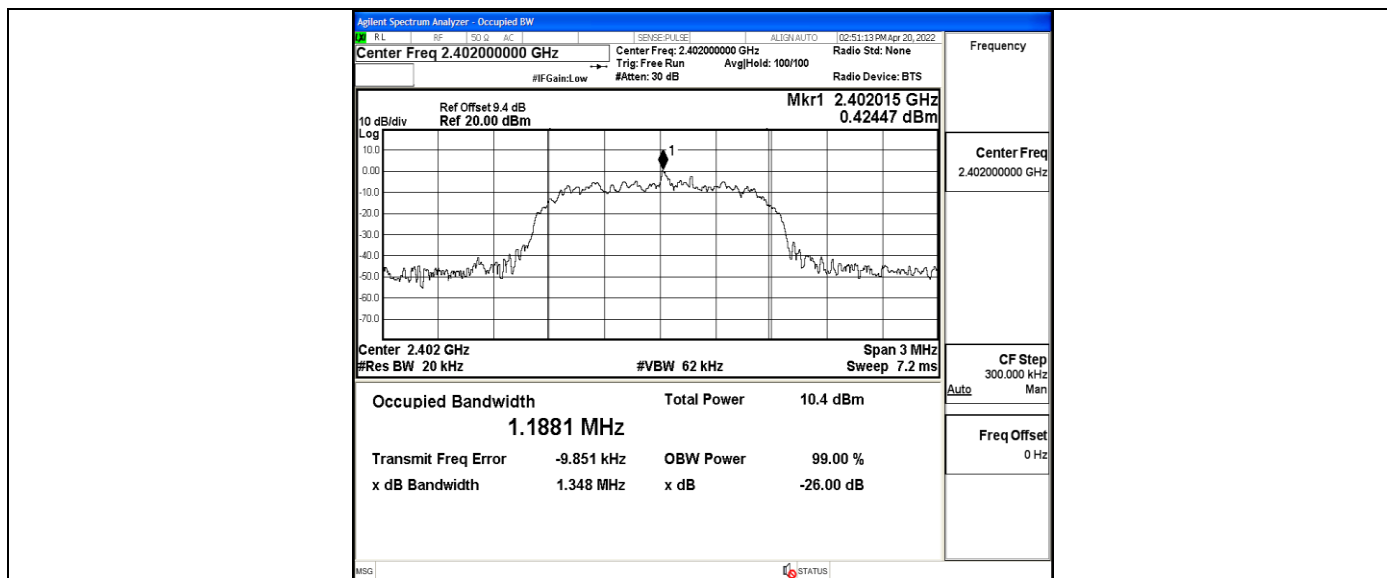
DH5_Ant1_2441



DH5_Ant1_2480



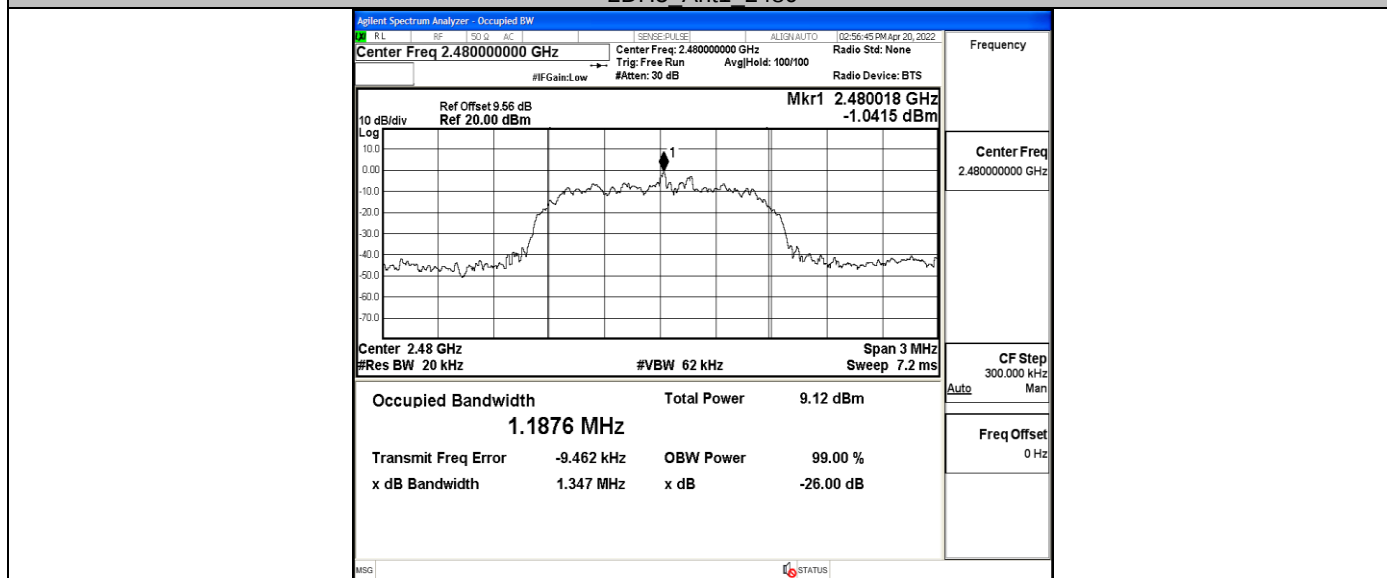
2DH5_Ant1_2402



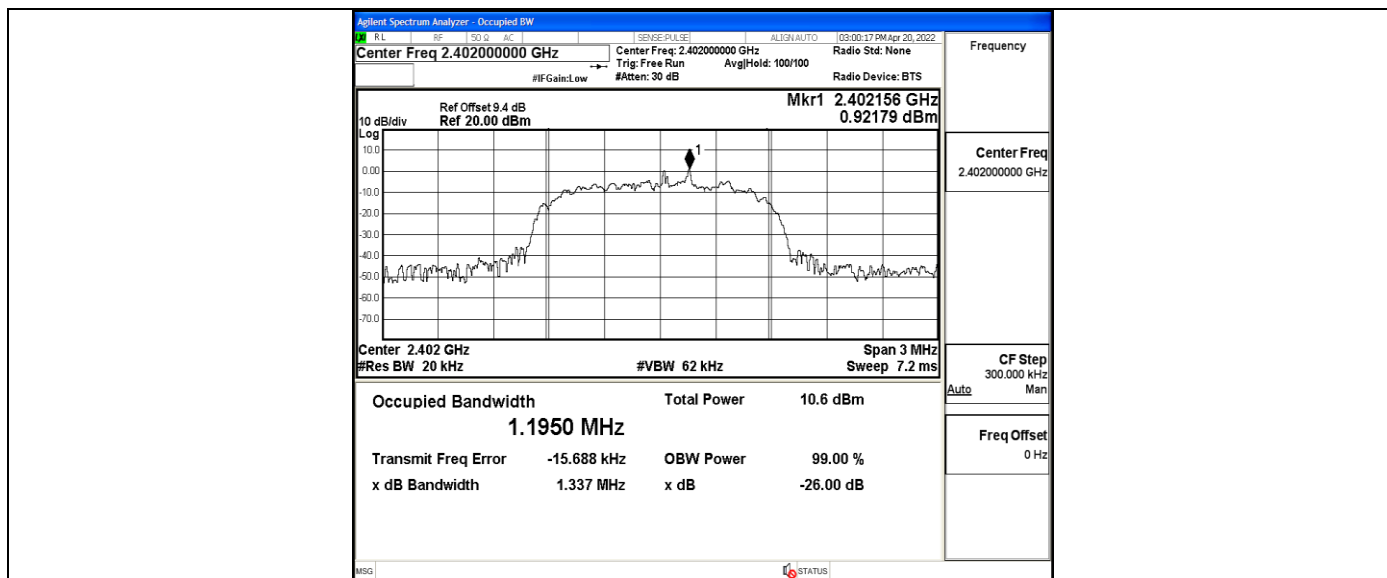
2DH5_Ant1_2441



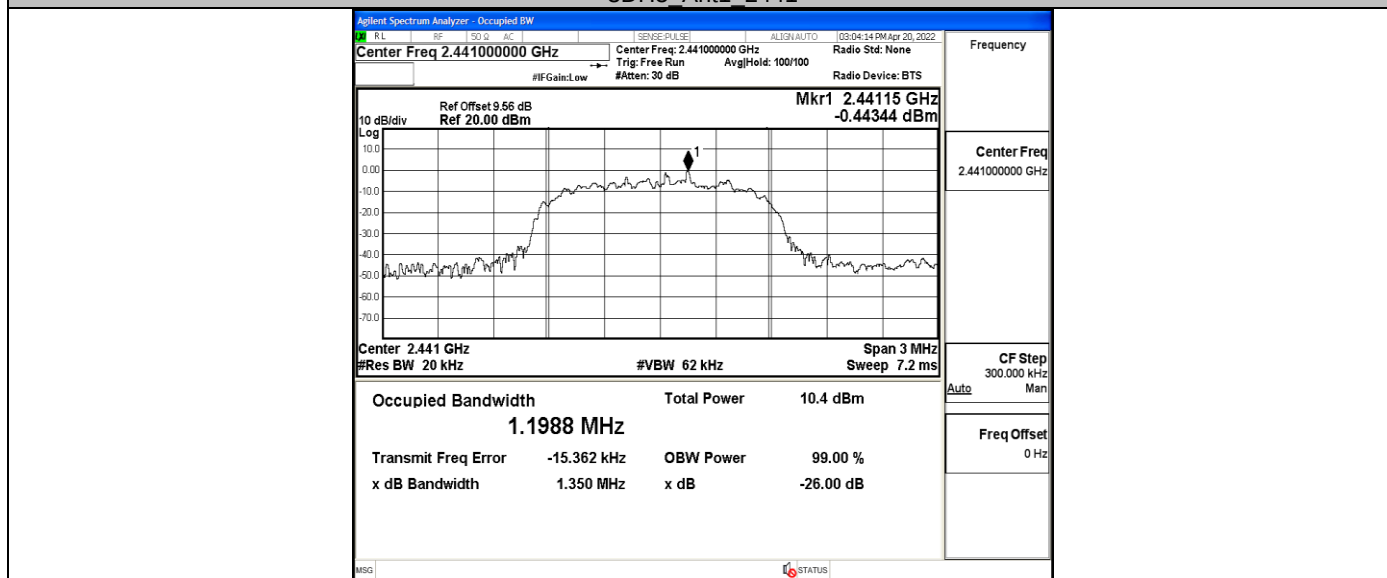
2DH5_Ant1_2480



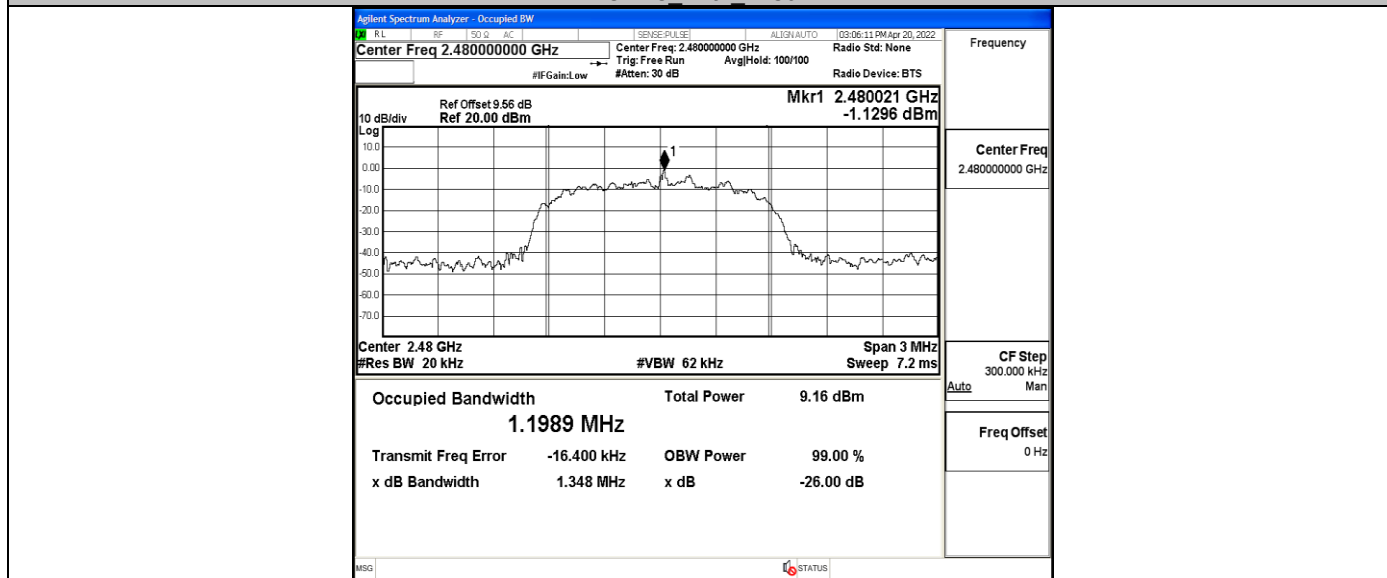
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

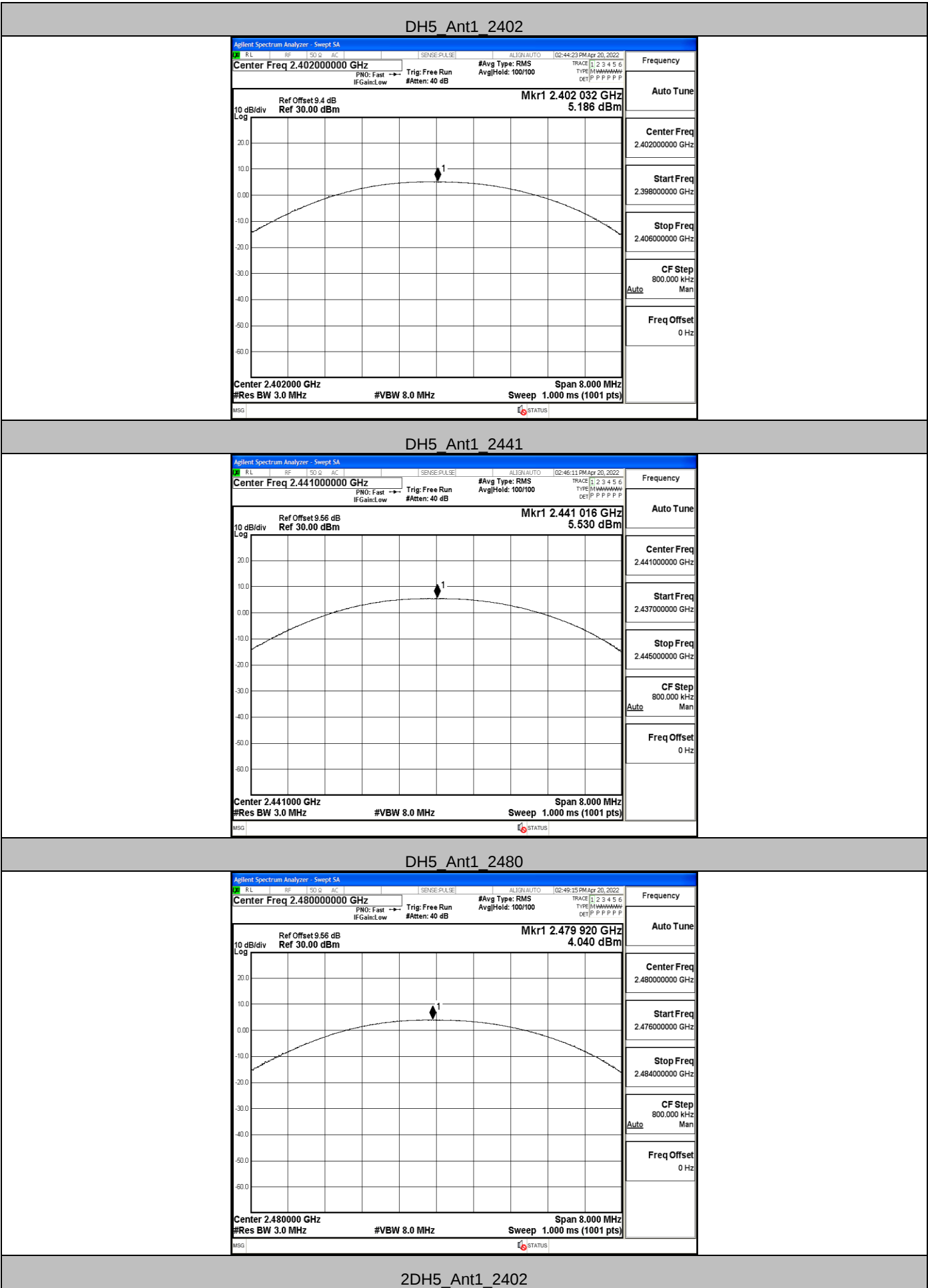


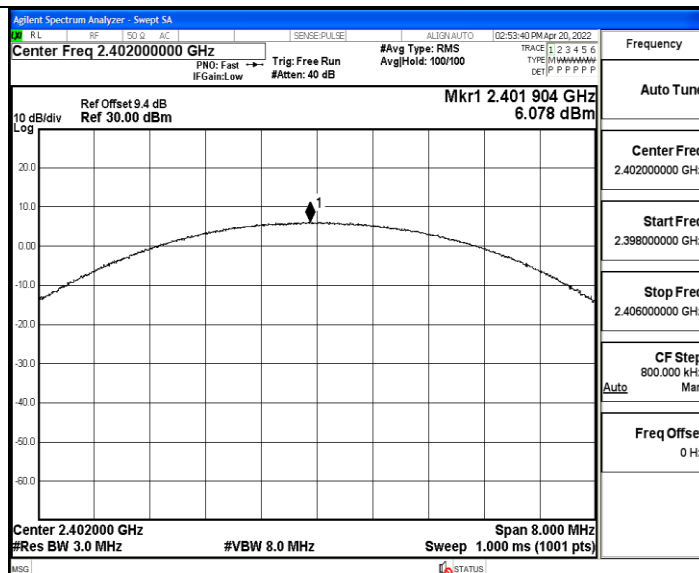
Appendix C: Maximum conducted output power

Test Result

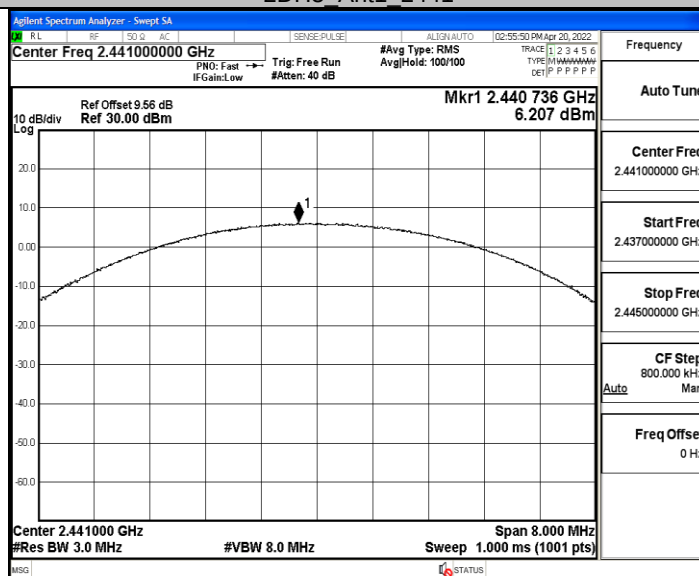
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	5.19	≤30.0	PASS
		2441	5.53	≤30.0	PASS
		2480	4.04	≤30.0	PASS
2DH5	Ant1	2402	6.08	≤20.97	PASS
		2441	6.21	≤20.97	PASS
		2480	4.61	≤20.97	PASS
3DH5	Ant1	2402	6.43	≤20.97	PASS
		2441	6.48	≤20.97	PASS
		2480	4.89	≤20.97	PASS

Test Graphs

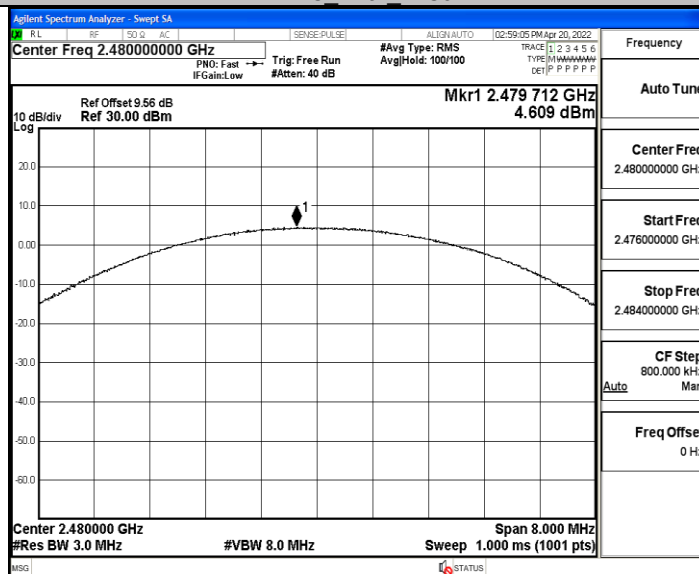




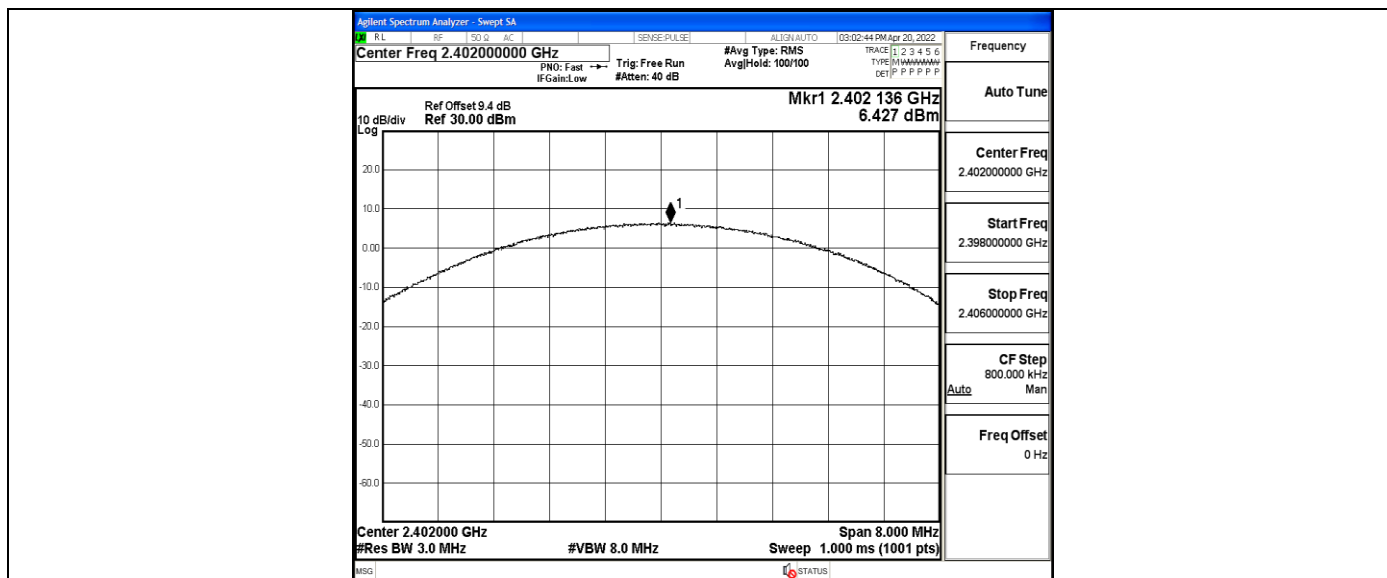
2DH5_Ant1_2441



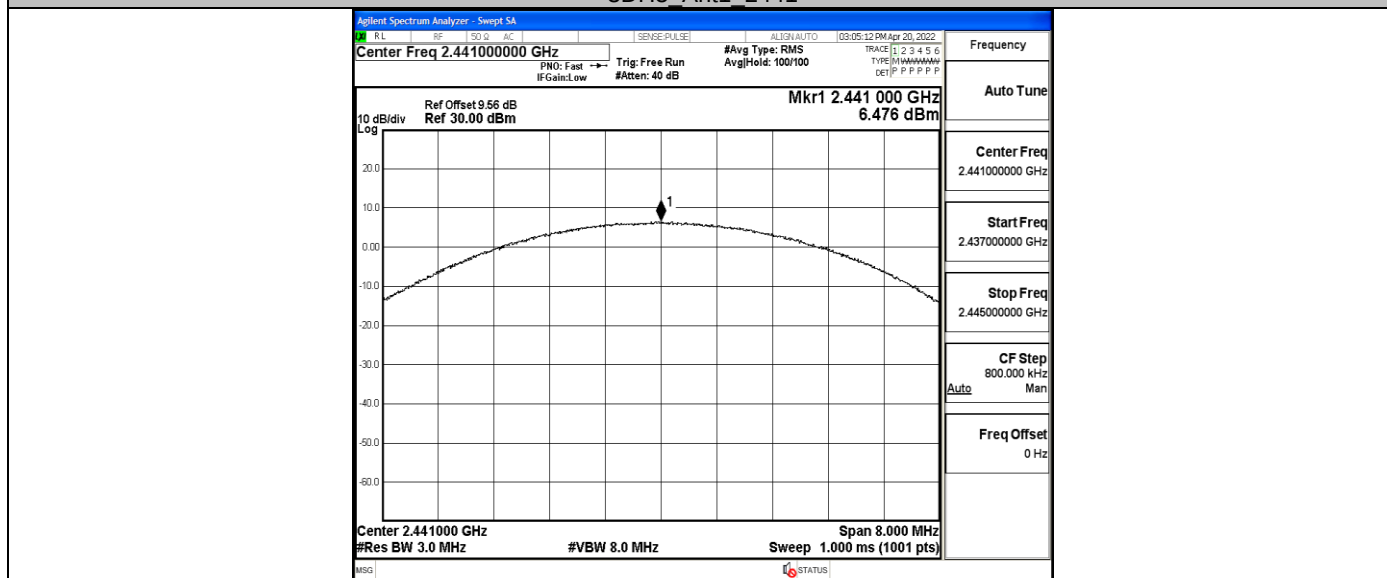
2DH5_Ant1_2480



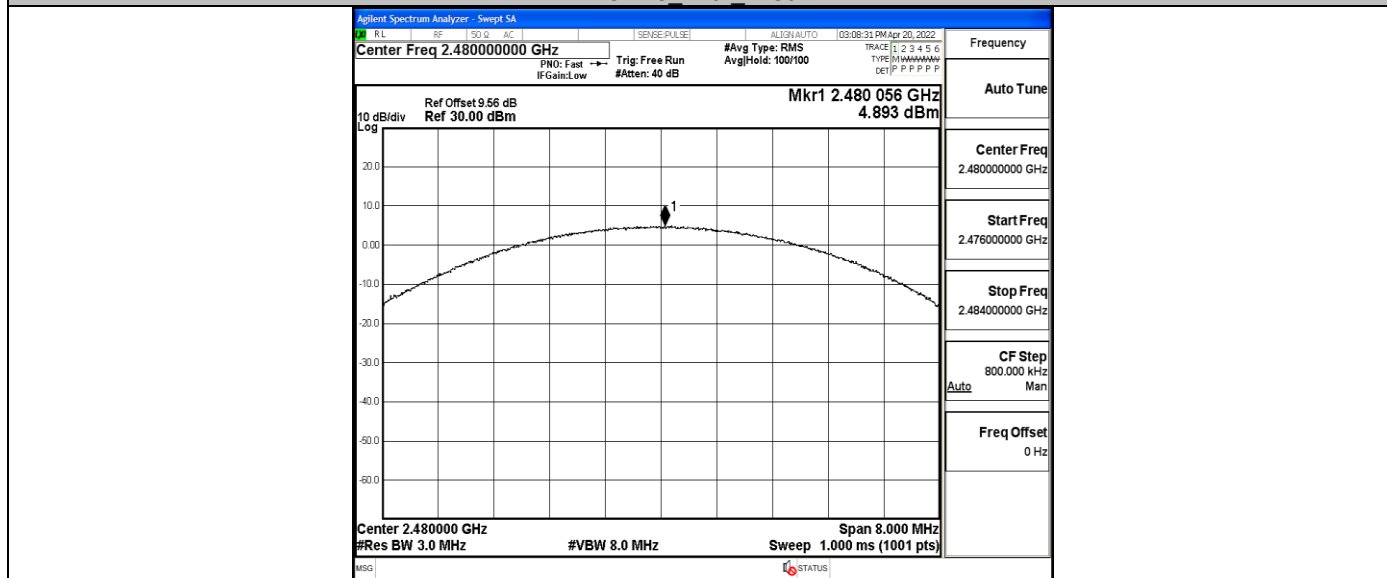
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



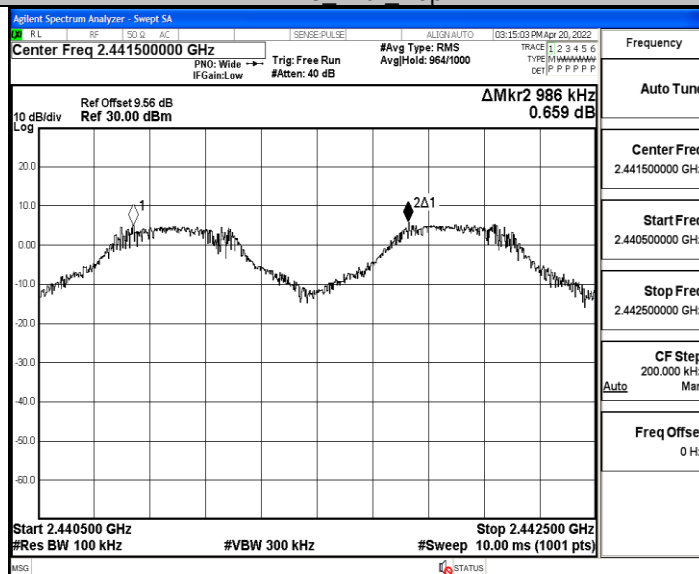
Appendix D: Carrier frequency separation

Test Result

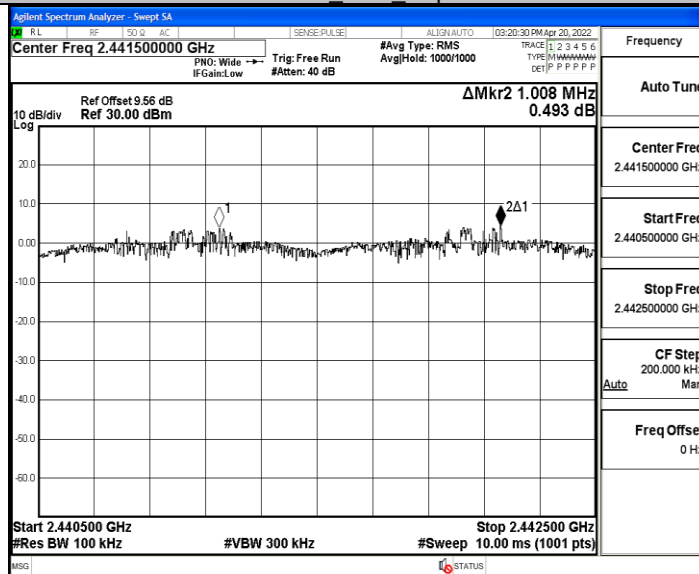
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.986	≥ 0.942	PASS
2DH5	Ant1	Hop	1.008	≥ 0.884	PASS
3DH5	Ant1	Hop	0.994	≥ 0.868	PASS

Test Graphs

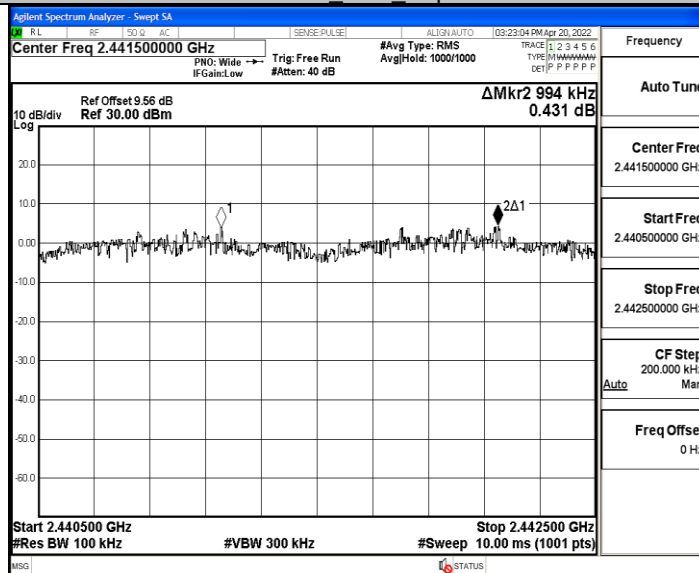
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



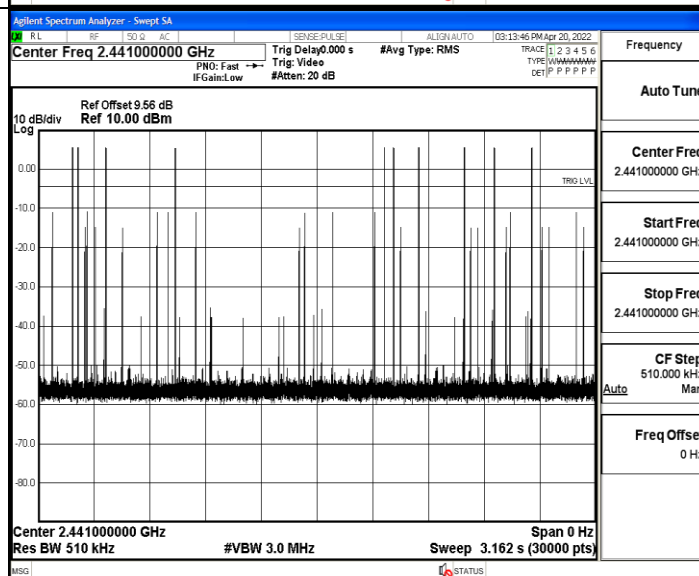
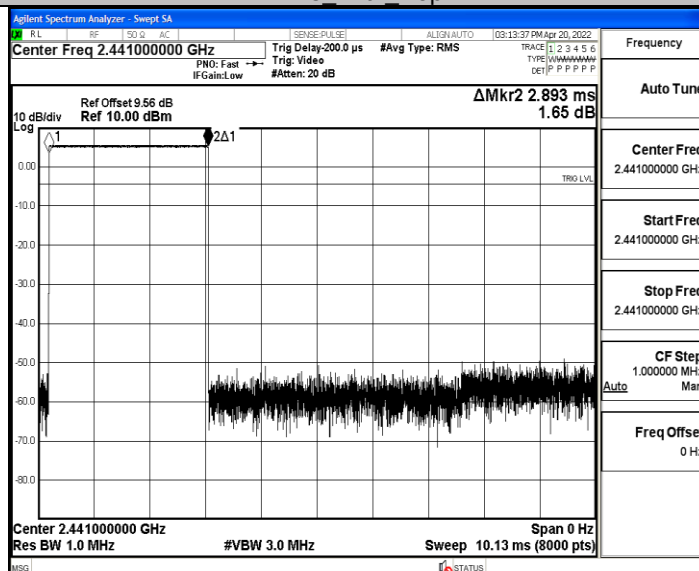
Appendix E: Time of occupancy

Test Result

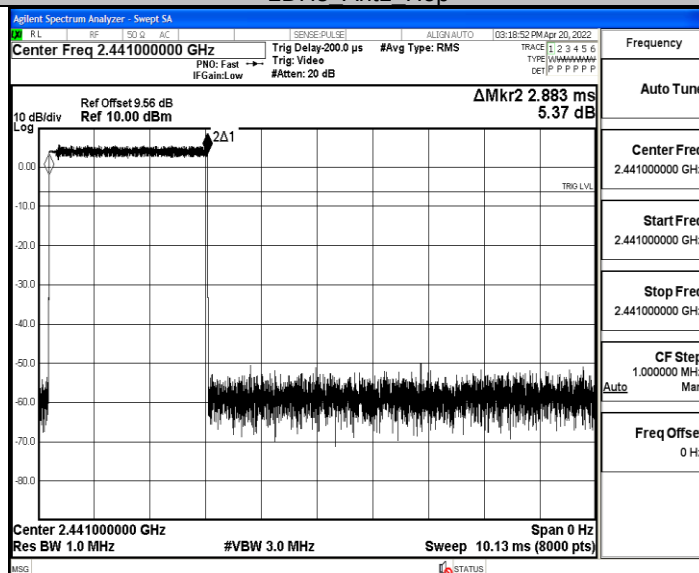
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.89	110	0.318	≤0.4	PASS
2DH5	Ant1	Hop	2.88	110	0.317	≤0.4	PASS
3DH5	Ant1	Hop	2.88	80	0.231	≤0.4	PASS

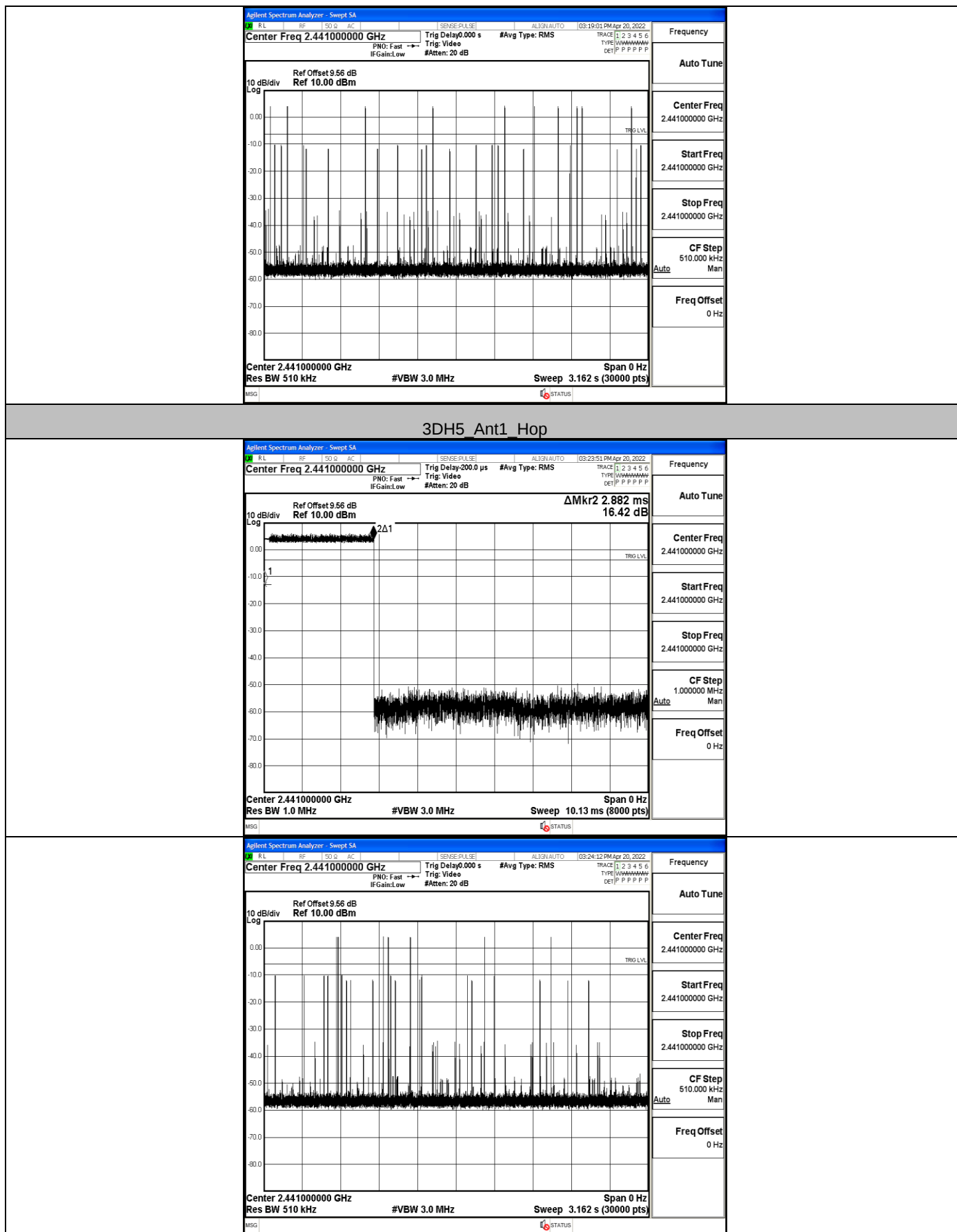
Test Graphs

DH5 Ant1 Hop



2DH5 Ant1 Hop





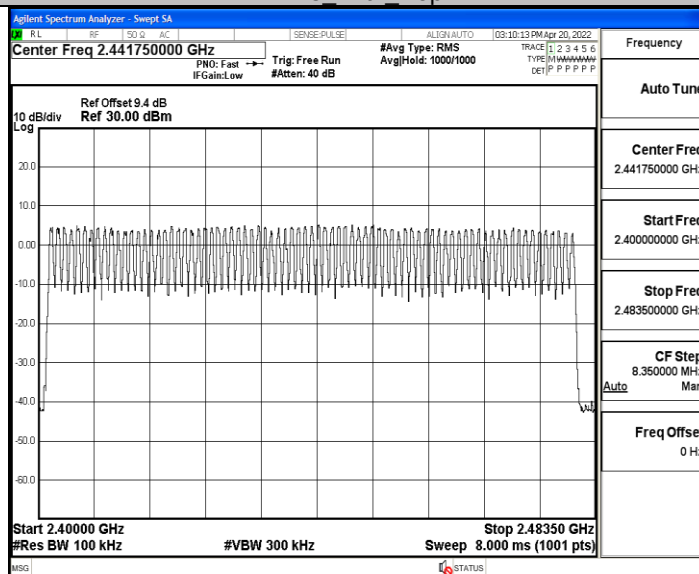
Appendix F: Number of hopping channels

Test Result

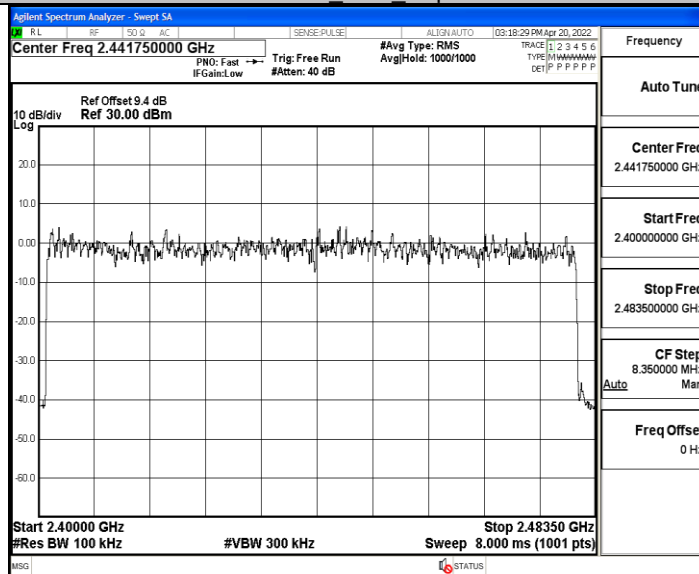
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

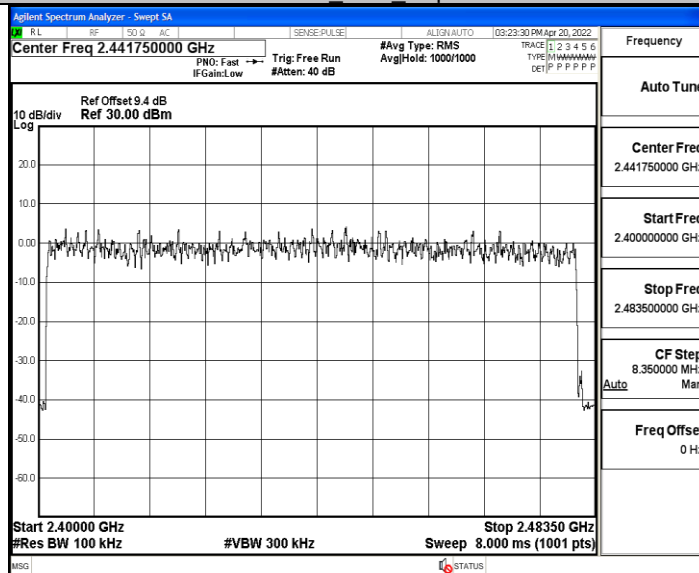
DH5 Ant1 Hop



2DH5 Ant1 Hop



3DH5 Ant1 Hop



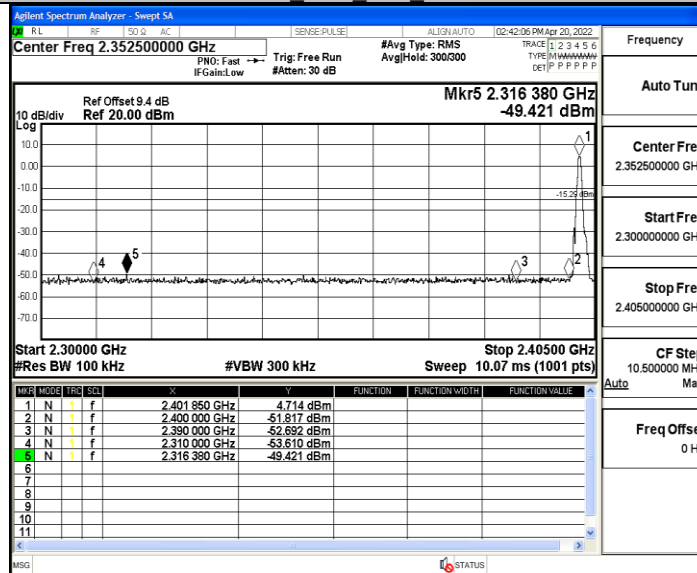
Appendix G: Band edge measurements

Test Result

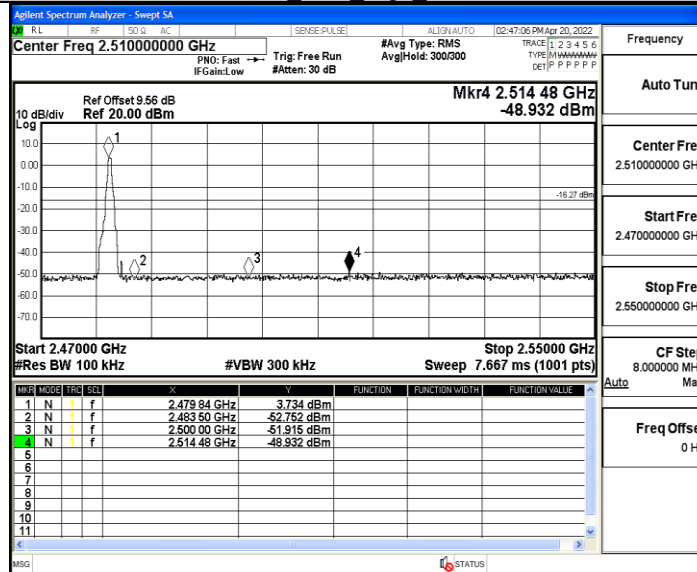
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	4.71	-49.42	≤-15.29	PASS
		High	2480	3.73	-48.93	≤-16.27	PASS
		Low	Hop_2402	4.08	-50.48	≤-15.92	PASS
		High	Hop_2480	4.08	-48.58	≤-15.92	PASS
2DH5	Ant1	Low	2402	3.65	-49.28	≤-16.35	PASS
		High	2480	2.09	-48.52	≤-17.92	PASS
		Low	Hop_2402	3.60	-50.42	≤-16.4	PASS
		High	Hop_2480	3.02	-49.21	≤-16.98	PASS
3DH5	Ant1	Low	2402	3.87	-49.55	≤-16.14	PASS
		High	2480	2.34	-48.82	≤-17.66	PASS
		Low	Hop_2402	0.60	-49.87	≤-19.4	PASS
		High	Hop_2480	2.63	-49.02	≤-17.37	PASS

Test Graphs

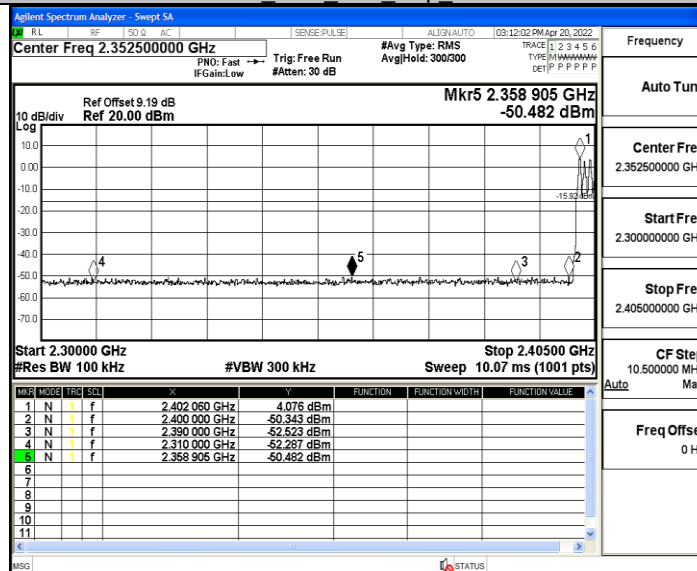
DH5_Ant1_Low_2402



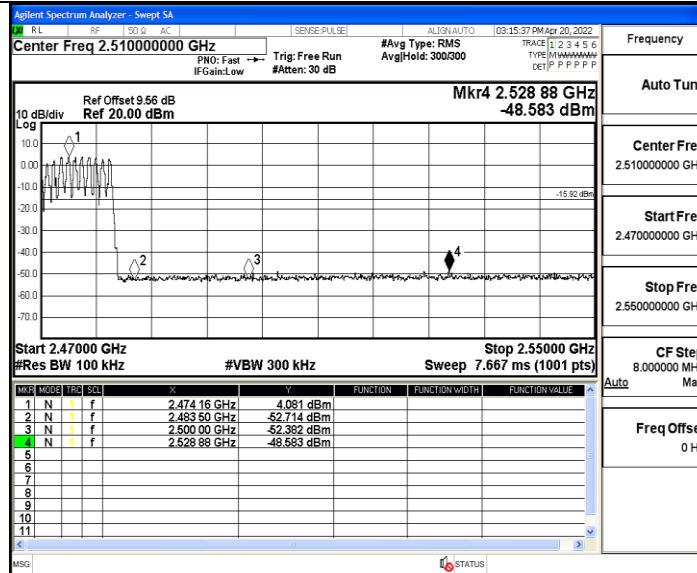
DH5_Ant1_High_2480



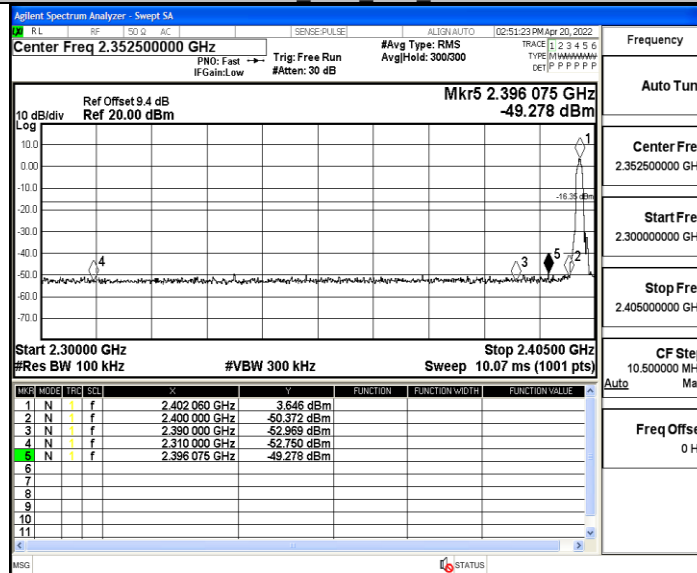
DH5_Ant1_Low_Hop_2402



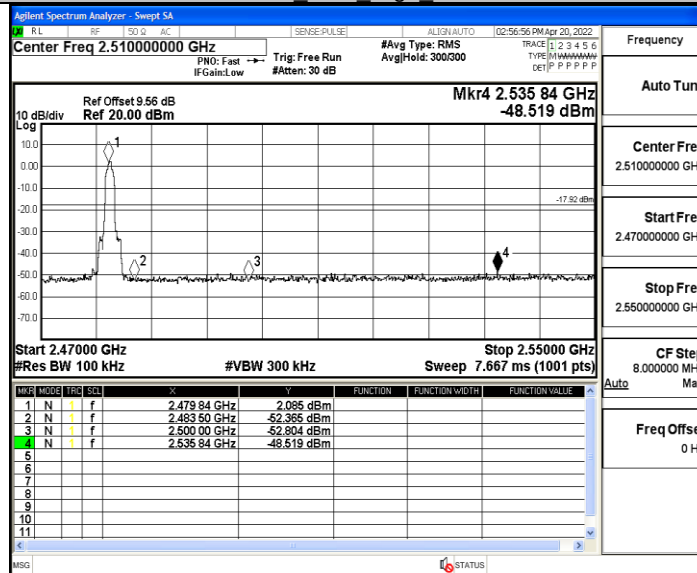
DH5_Ant1_High_Hop_2480



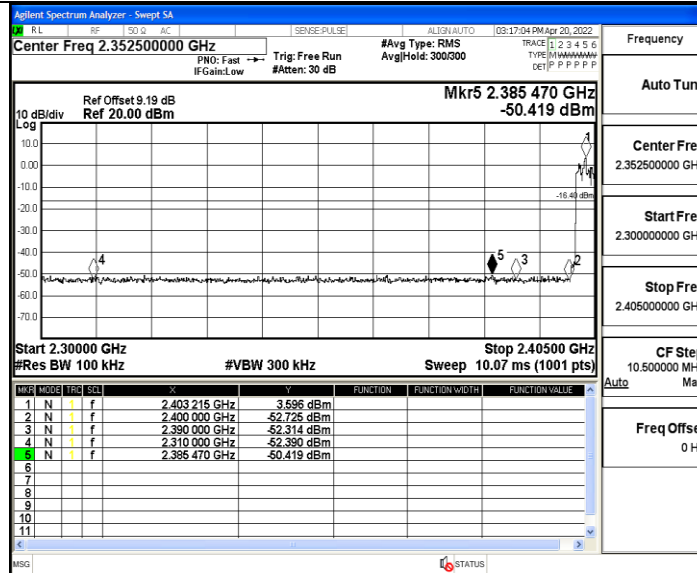
2DH5 Ant1 Low 2402



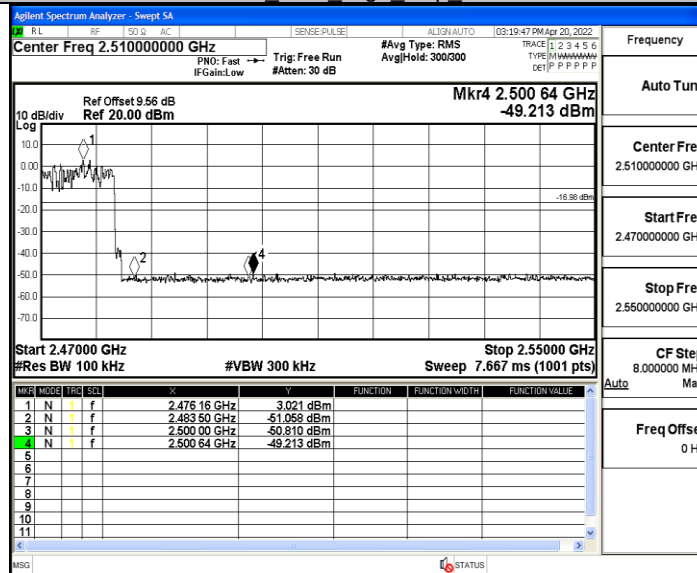
2DH5 Ant1 High 2480



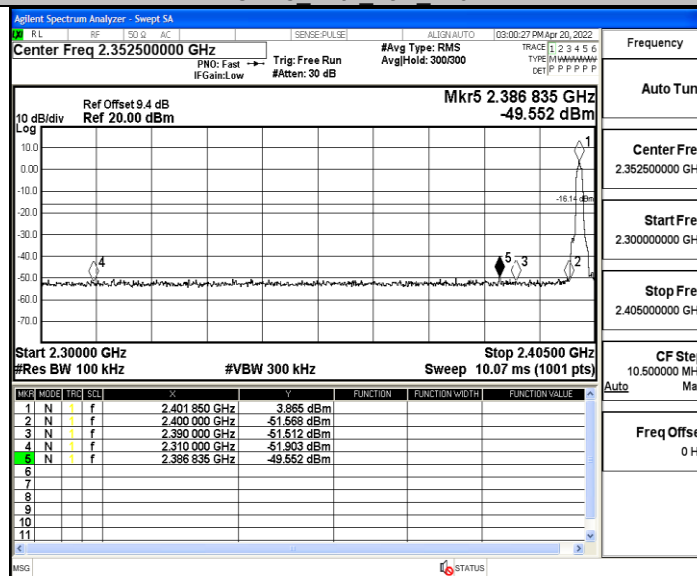
2DH5 Ant1 Low Hop 2402



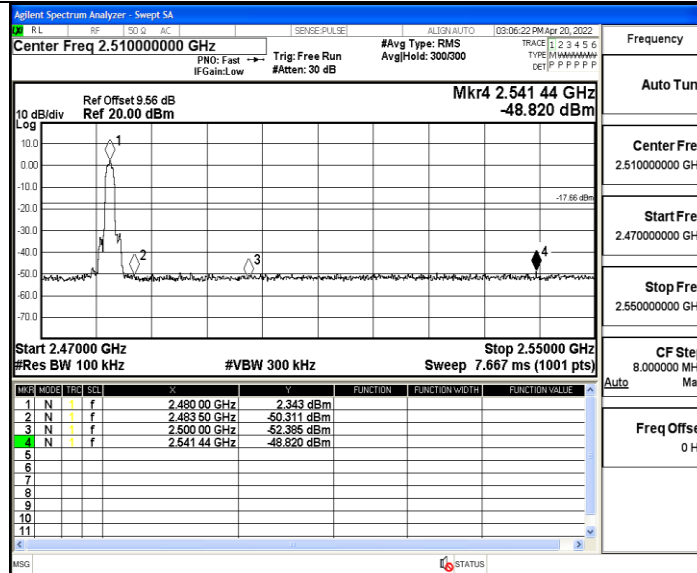
2DH5 Ant1 High Hop 2480



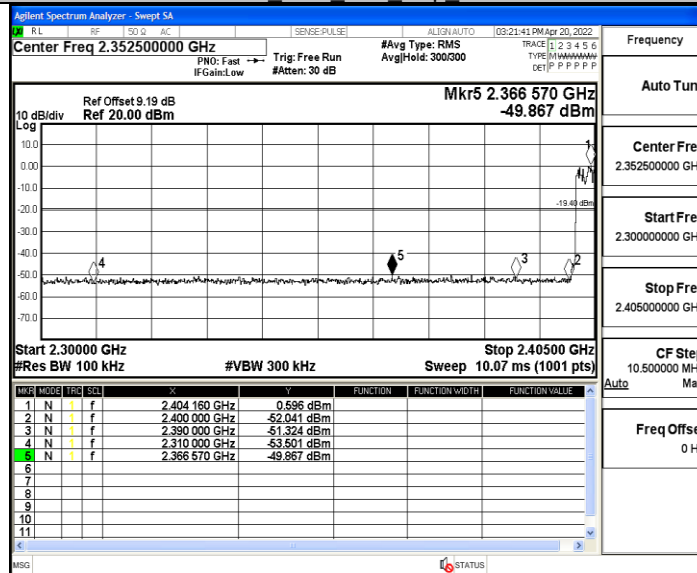
3DH5 Ant1 Low 2402



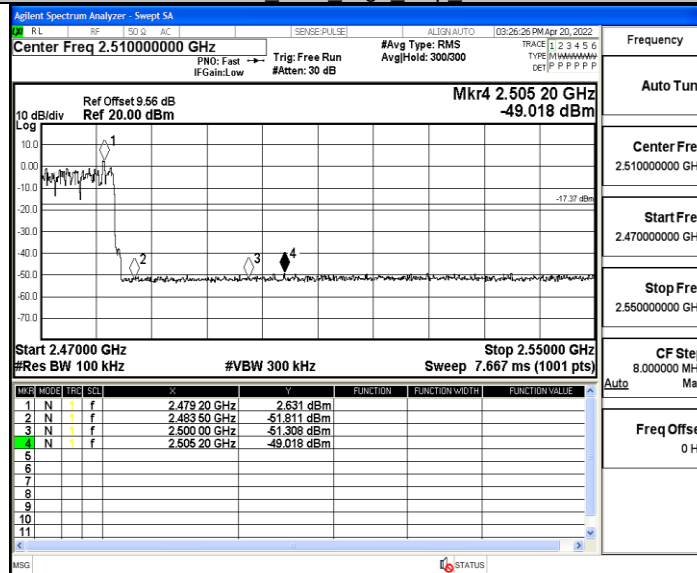
3DH5 Ant1 High 2480



3DH5 Ant1 Low Hop 2402



3DH5 Ant1 High Hop 2480

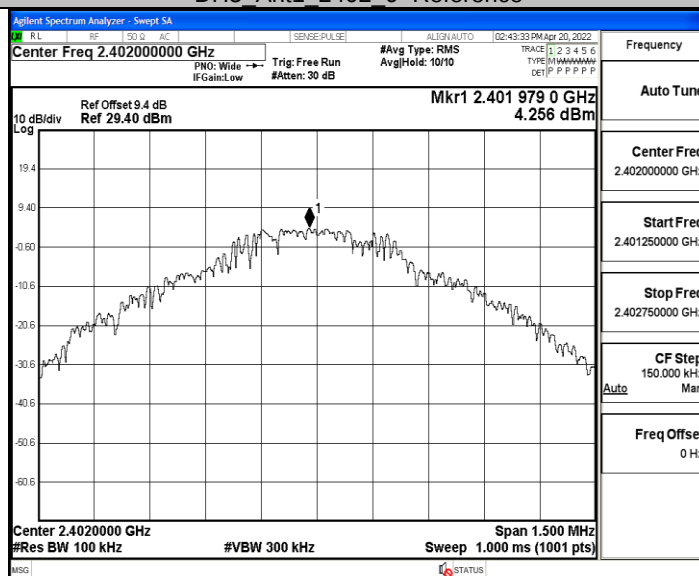


Appendix H: Conducted Spurious Emission Test Result

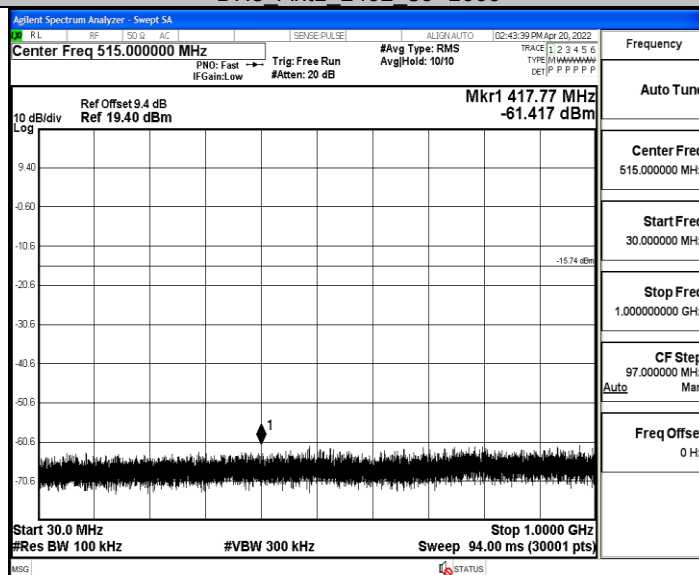
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	4.26	4.26	---	PASS
			30~1000	4.26	-61.42	≤-15.74	PASS
			1000~26500	4.26	-51.09	≤-15.74	PASS
		2441	Reference	4.68	4.68	---	PASS
			30~1000	4.68	-59.99	≤-15.32	PASS
			1000~26500	4.68	-50.57	≤-15.32	PASS
		2480	Reference	3.00	3.00	---	PASS
			30~1000	3.00	-61.07	≤-17	PASS
			1000~26500	3.00	-50.59	≤-17	PASS
2DH5	Ant1	2402	Reference	3.82	3.82	---	PASS
			30~1000	3.82	-61.79	≤-16.18	PASS
			1000~26500	3.82	-50.83	≤-16.18	PASS
		2441	Reference	2.97	2.97	---	PASS
			30~1000	2.97	-60.02	≤-17.03	PASS
			1000~26500	2.97	-51.22	≤-17.03	PASS
		2480	Reference	0.34	0.34	---	PASS
			30~1000	0.34	-61.28	≤-19.66	PASS
			1000~26500	0.34	-50.86	≤-19.66	PASS
3DH5	Ant1	2402	Reference	1.82	1.82	---	PASS
			30~1000	1.82	-60.49	≤-18.18	PASS
			1000~26500	1.82	-51.34	≤-18.18	PASS
		2441	Reference	3.42	3.42	---	PASS
			30~1000	3.42	-60.81	≤-16.58	PASS
			1000~26500	3.42	-49.23	≤-16.58	PASS
		2480	Reference	0.70	0.70	---	PASS
			30~1000	0.70	-60.3	≤-19.3	PASS
			1000~26500	0.70	-50.58	≤-19.3	PASS

Test Graphs

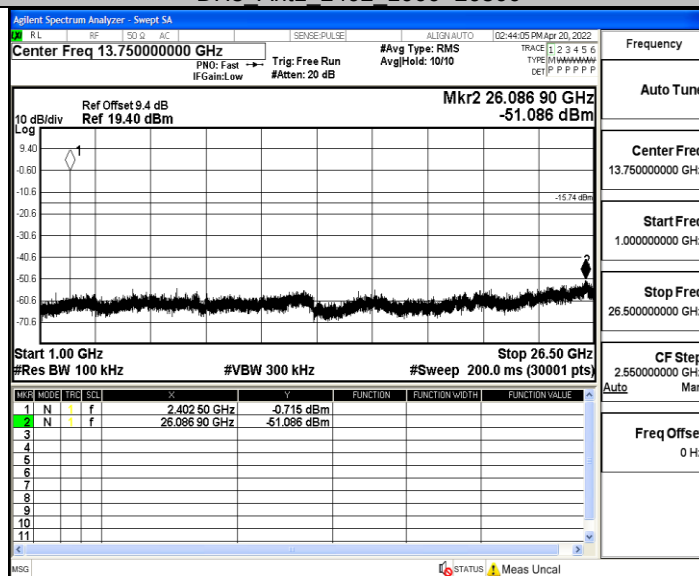
DH5_Ant1_2402_0-Reference



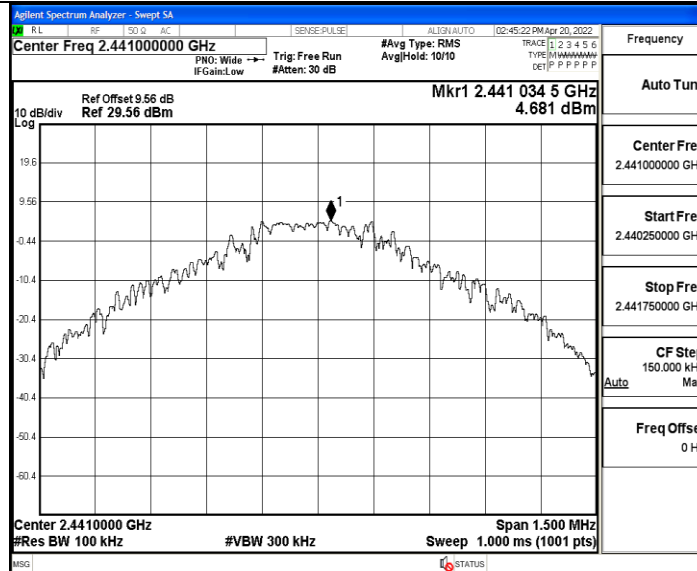
DH5_Ant1_2402_30-1000



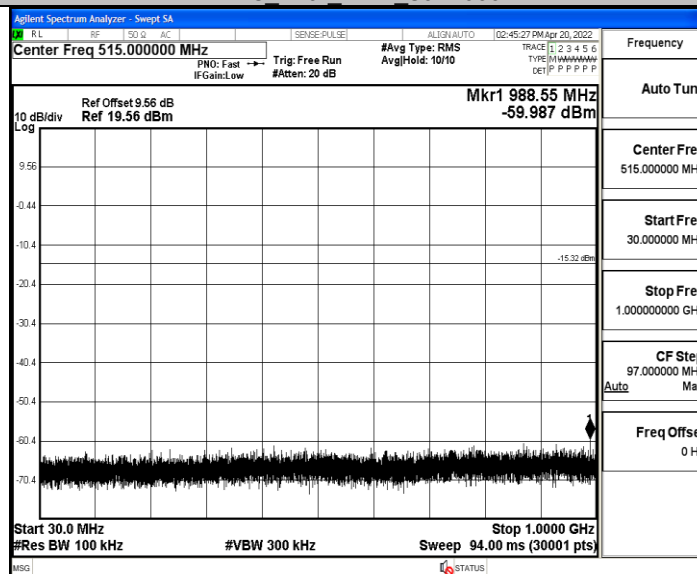
DH5_Ant1_2402_1000-26500



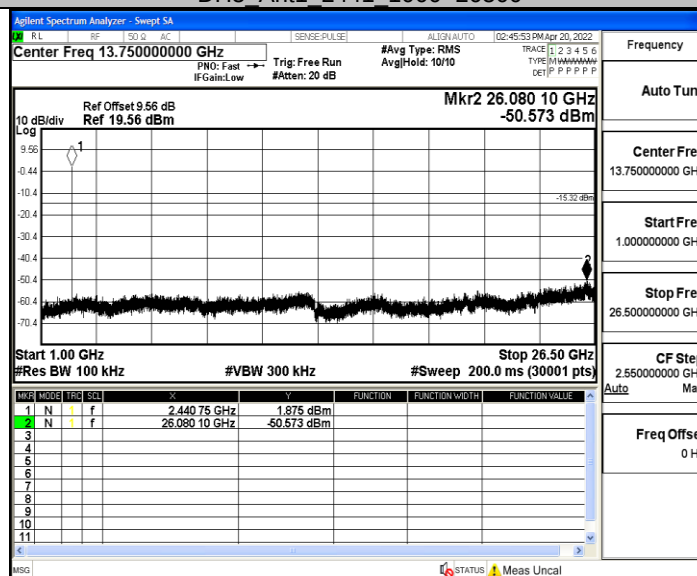
DH5_Ant1_2441_0-Reference



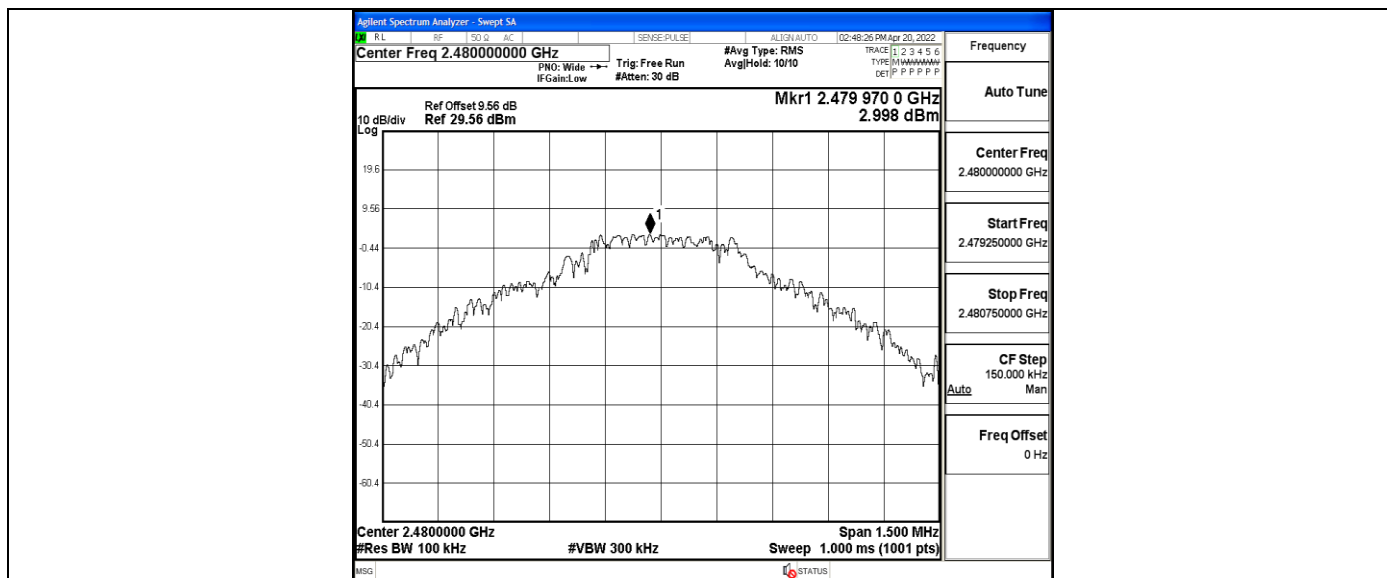
DH5_Ant1_2441_30~1000



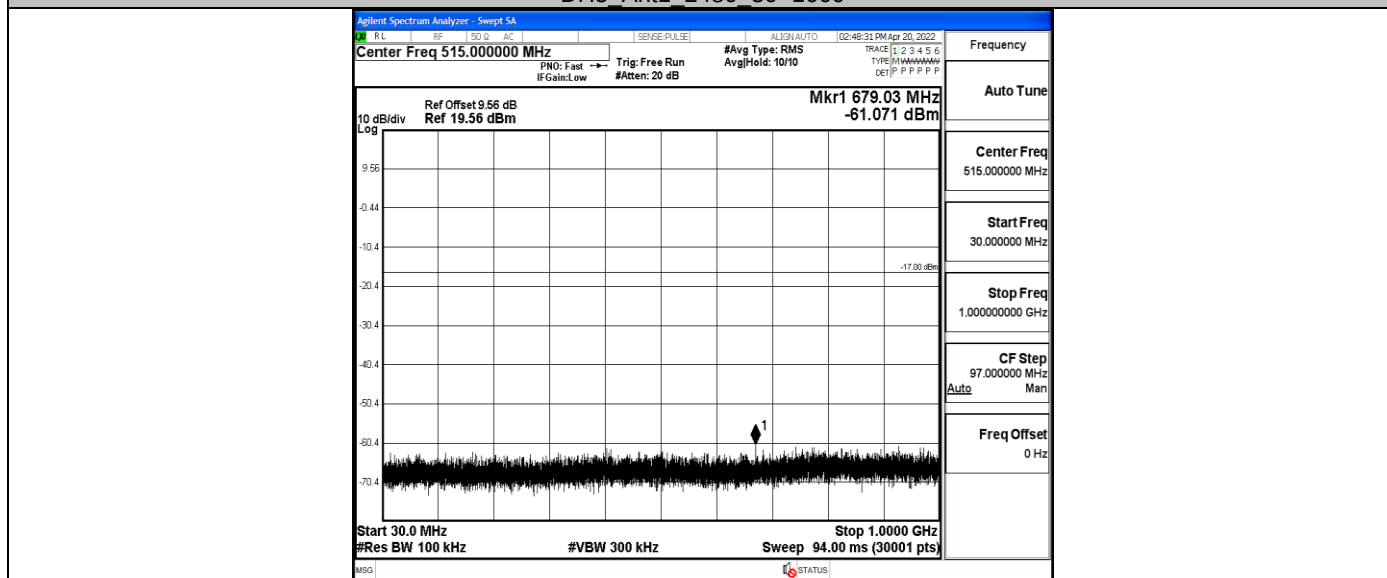
DH5_Ant1_2441_1000~26500



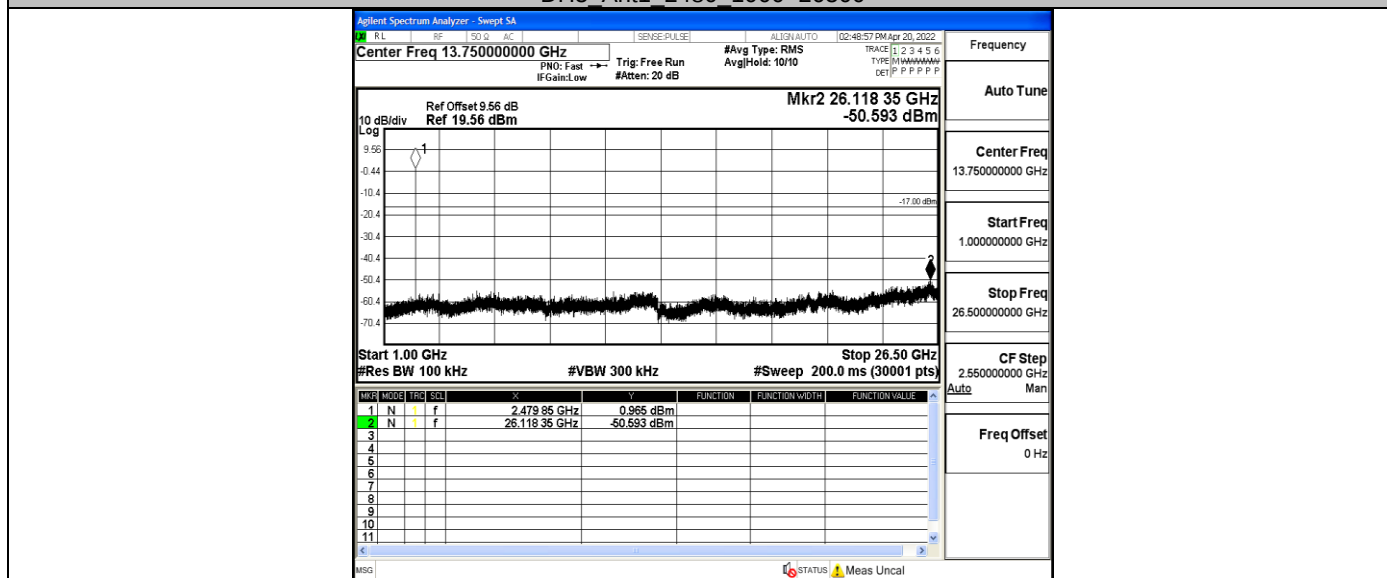
DH5_Ant1_2480_0-Reference



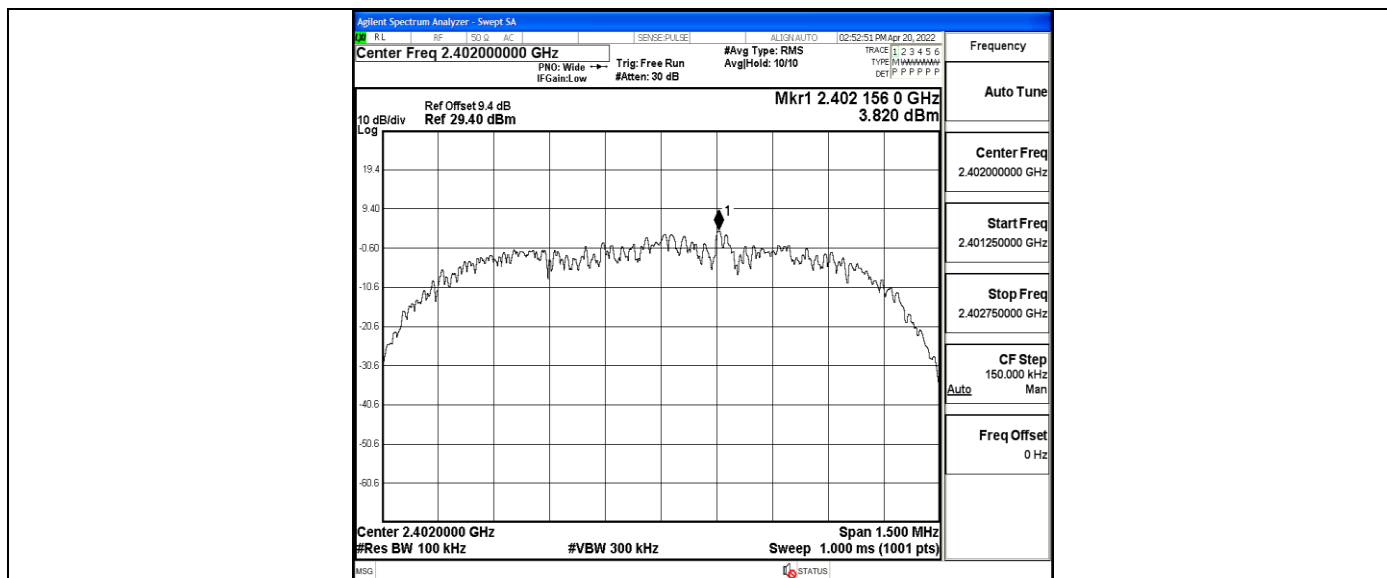
DH5 Ant1 2480 30~1000



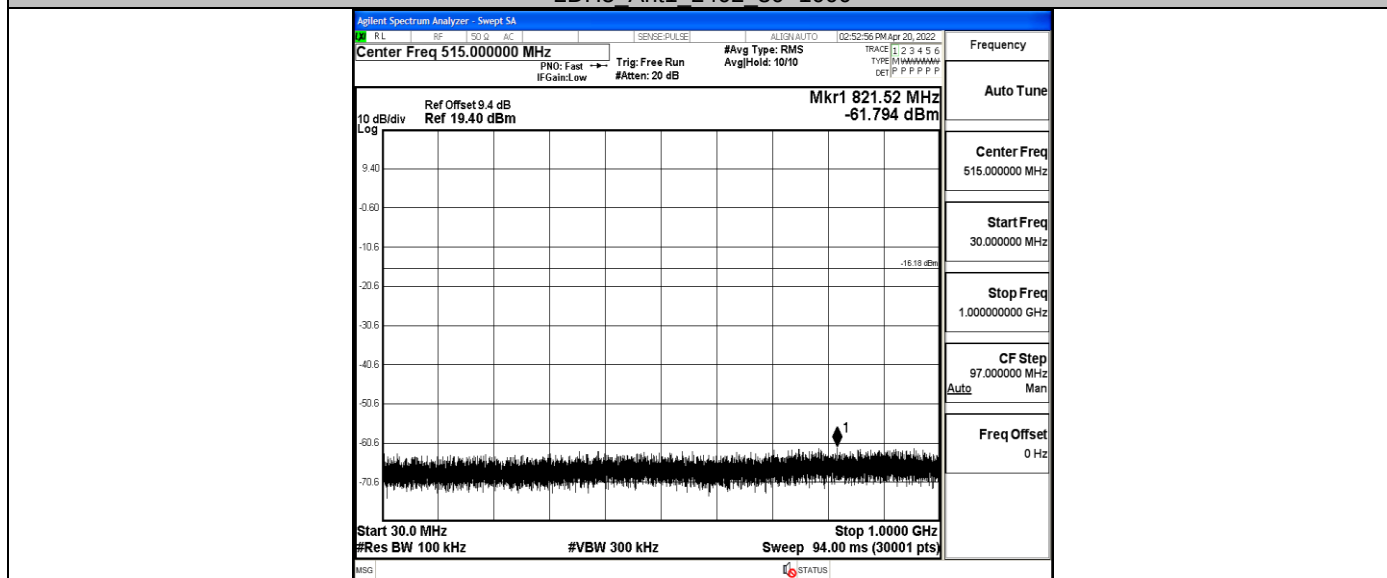
DH5 Ant1 2480 1000~26500



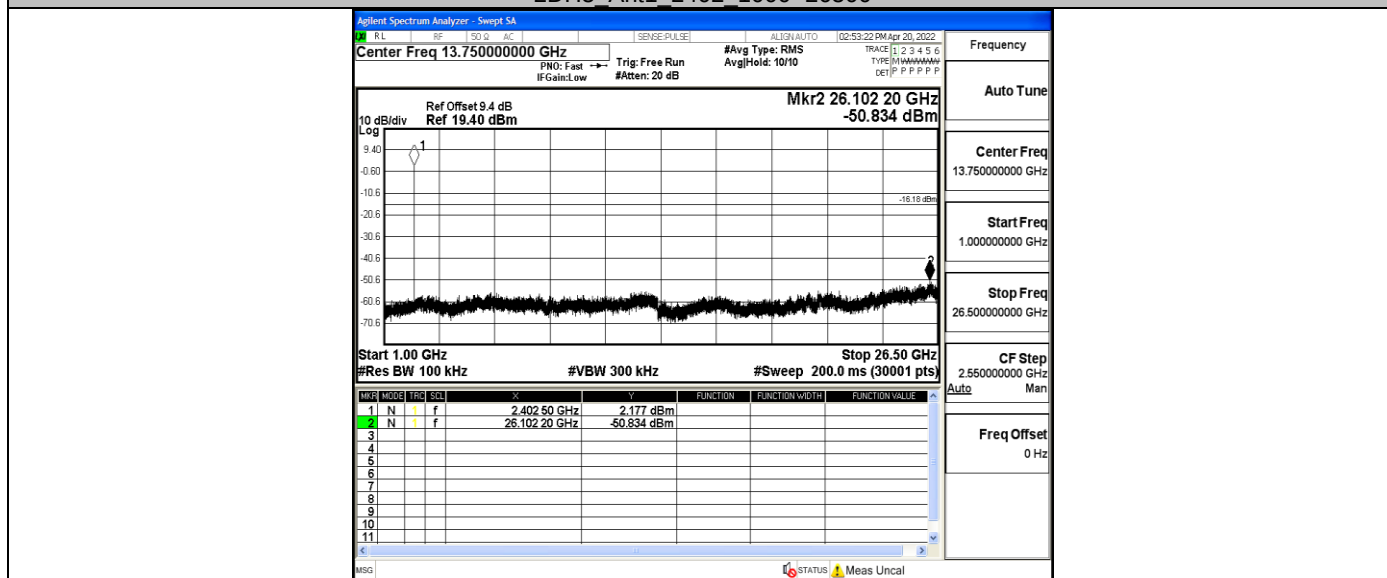
2DH5 Ant1 2402 0~Reference



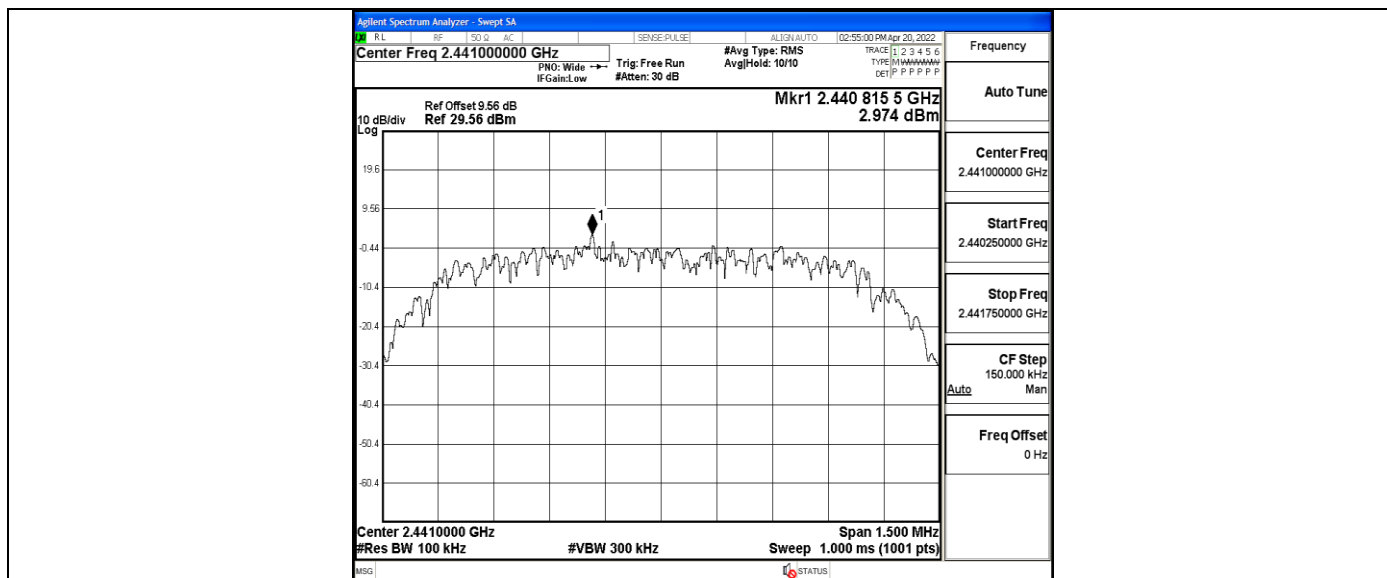
2DH5 Ant1 2402 30~1000



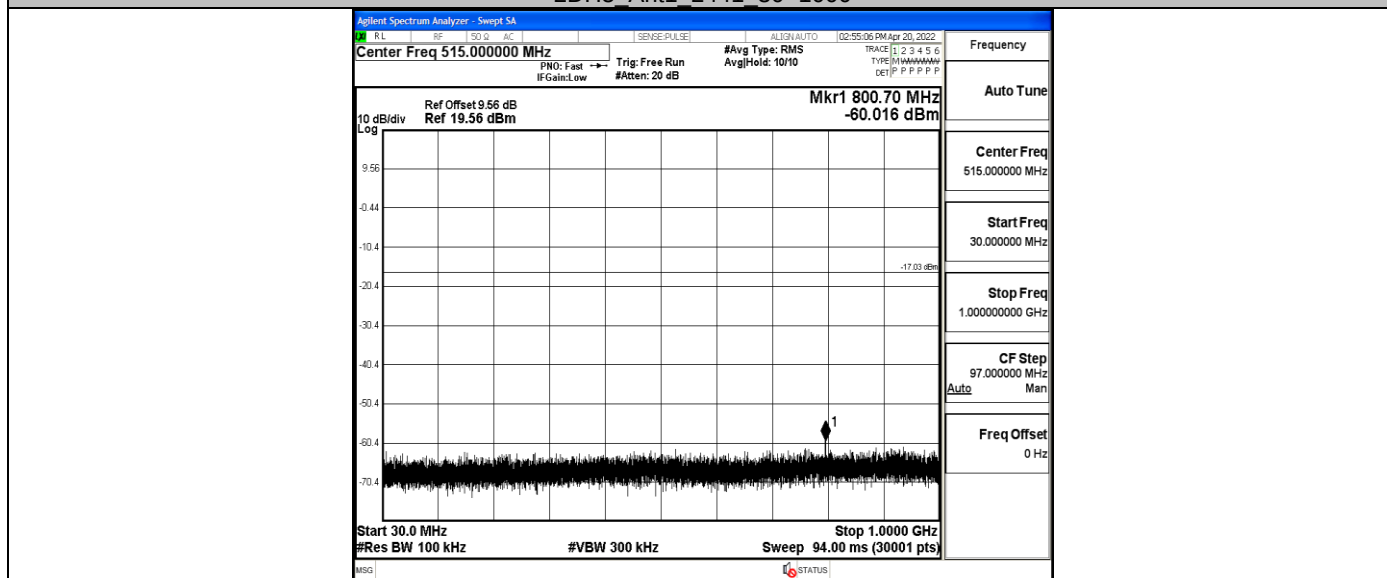
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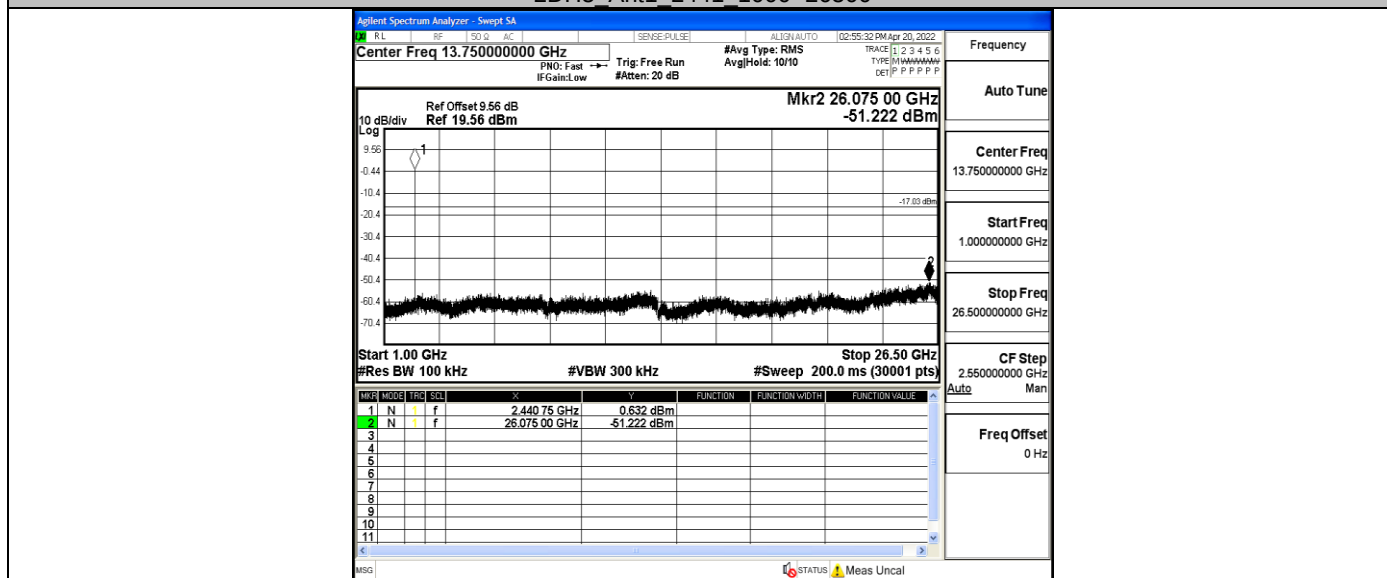
2DH5 Ant1 2441 0~Reference



2DH5 Ant1 2441 30~1000



2DH5 Ant1 2441 1000~26500



2DH5 Ant1 2480 0~Reference