

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

Product Name: OTT+speaker

Trade Mark: /

Test Model: SK410D

FCC ID: 2AOVU-SK410D

Environmental Conditions

Temperature:	24.2℃
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

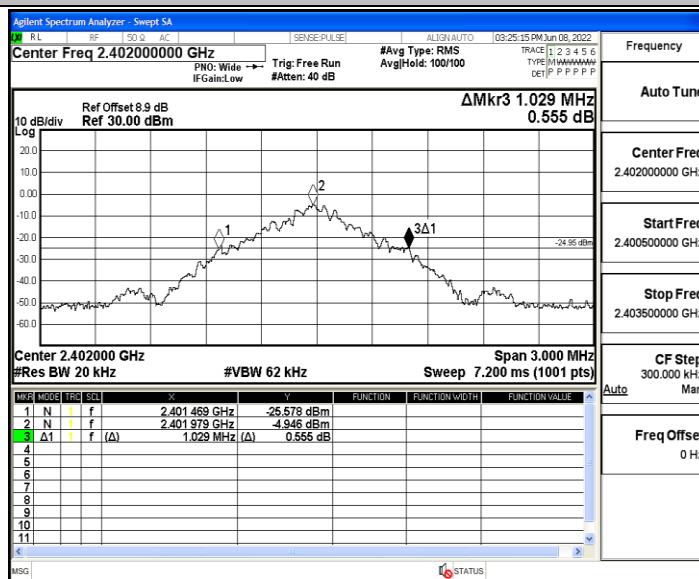
Appendix A: 20dB Emission Bandwidth

Test Result

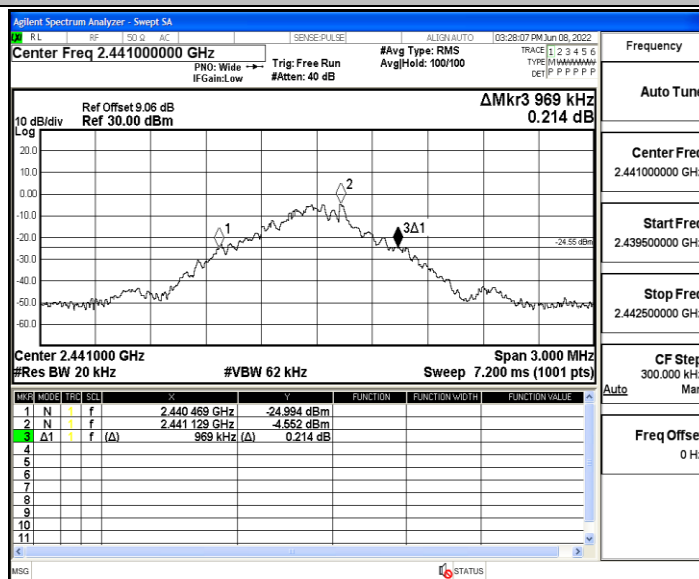
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.029	2401.469	2402.498	---	---
		2441	0.969	2440.469	2441.438	---	---
		2480	1.011	2479.475	2480.486	---	---
2DH5	Ant1	2402	1.341	2401.316	2402.657	---	---
		2441	1.347	2440.304	2441.651	---	---
		2480	1.344	2479.298	2480.642	---	---
3DH5	Ant1	2402	1.353	2401.304	2402.657	---	---
		2441	1.329	2440.307	2441.636	---	---
		2480	1.359	2479.283	2480.642	---	---

Test Graphs

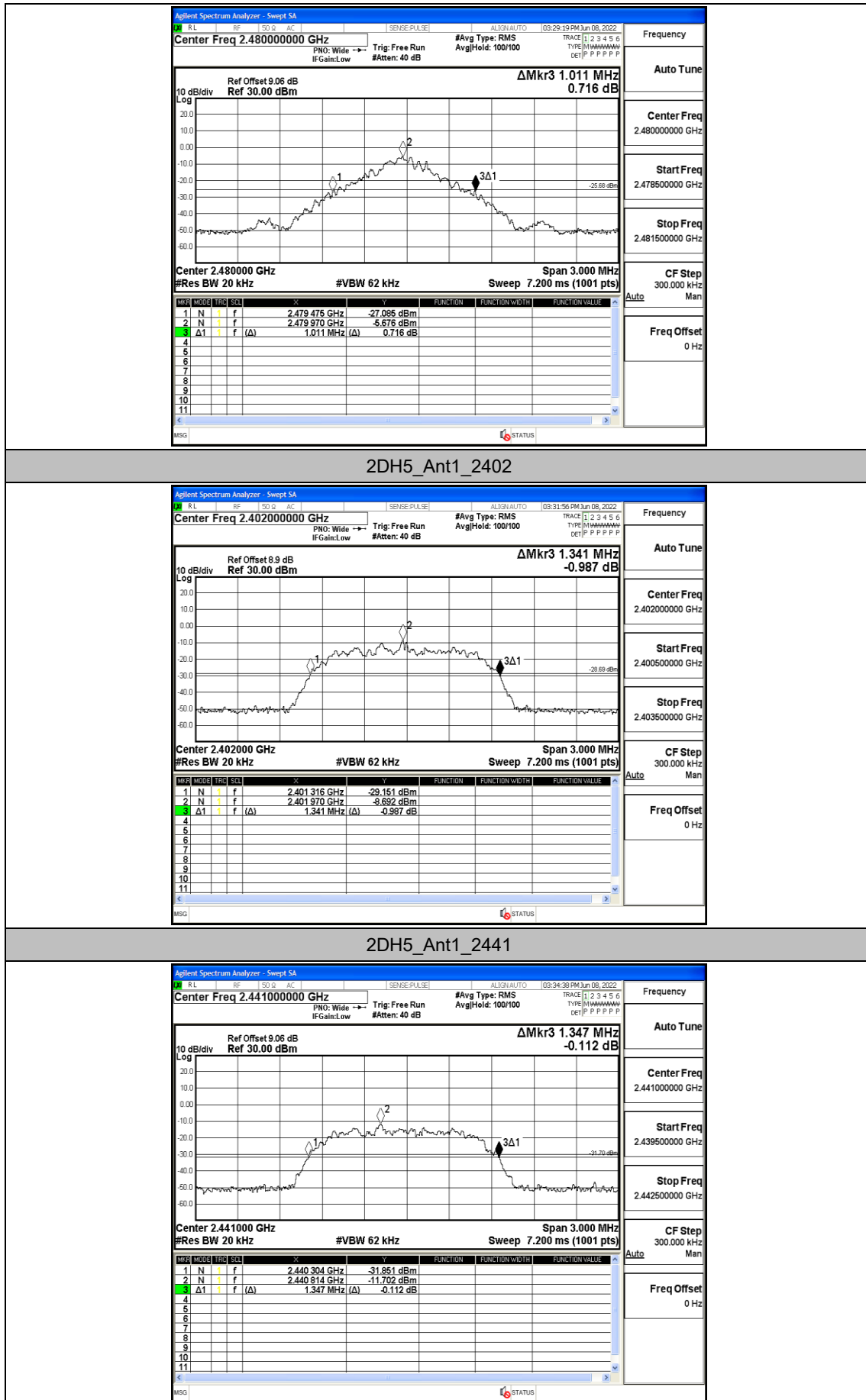
DH5_Ant1_2402



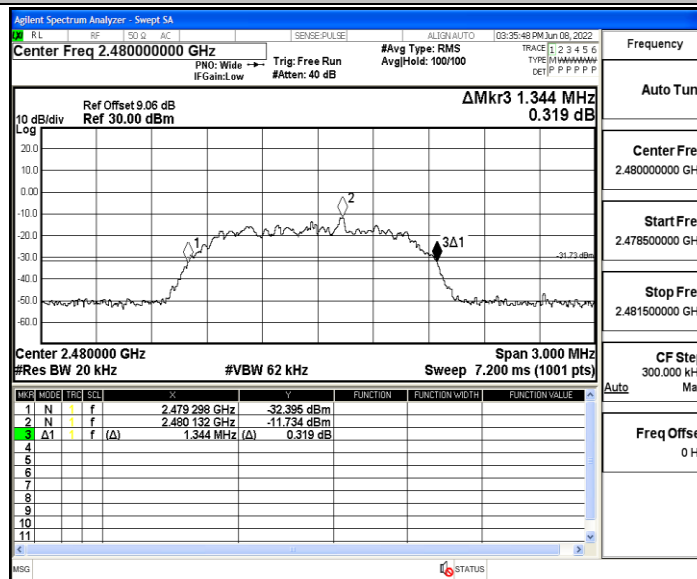
DH5_Ant1_2441



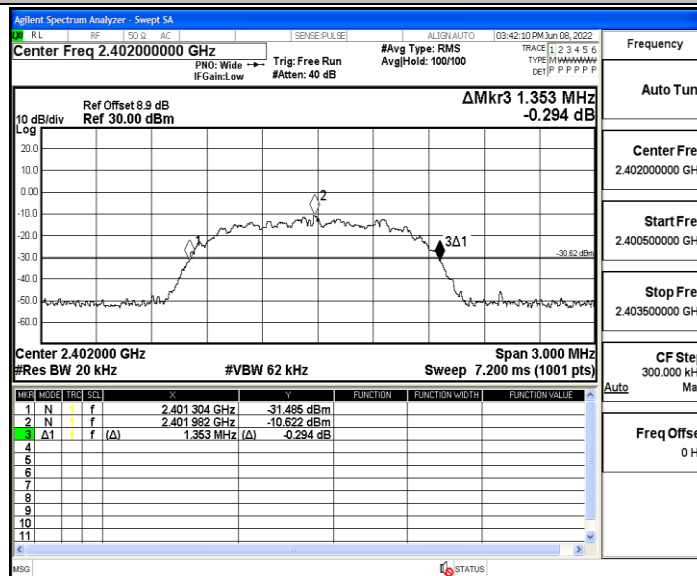
DH5_Ant1_2480



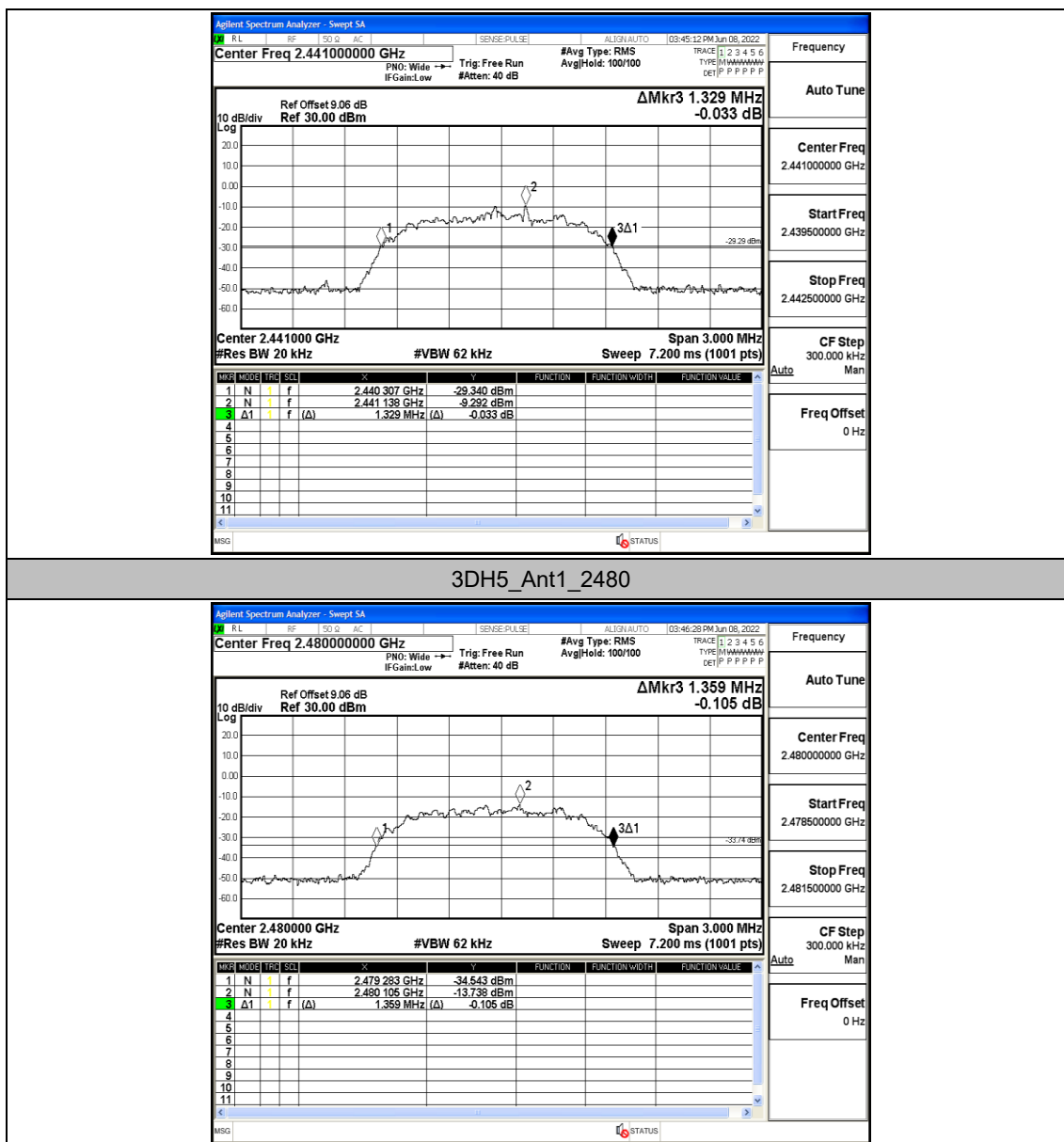
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

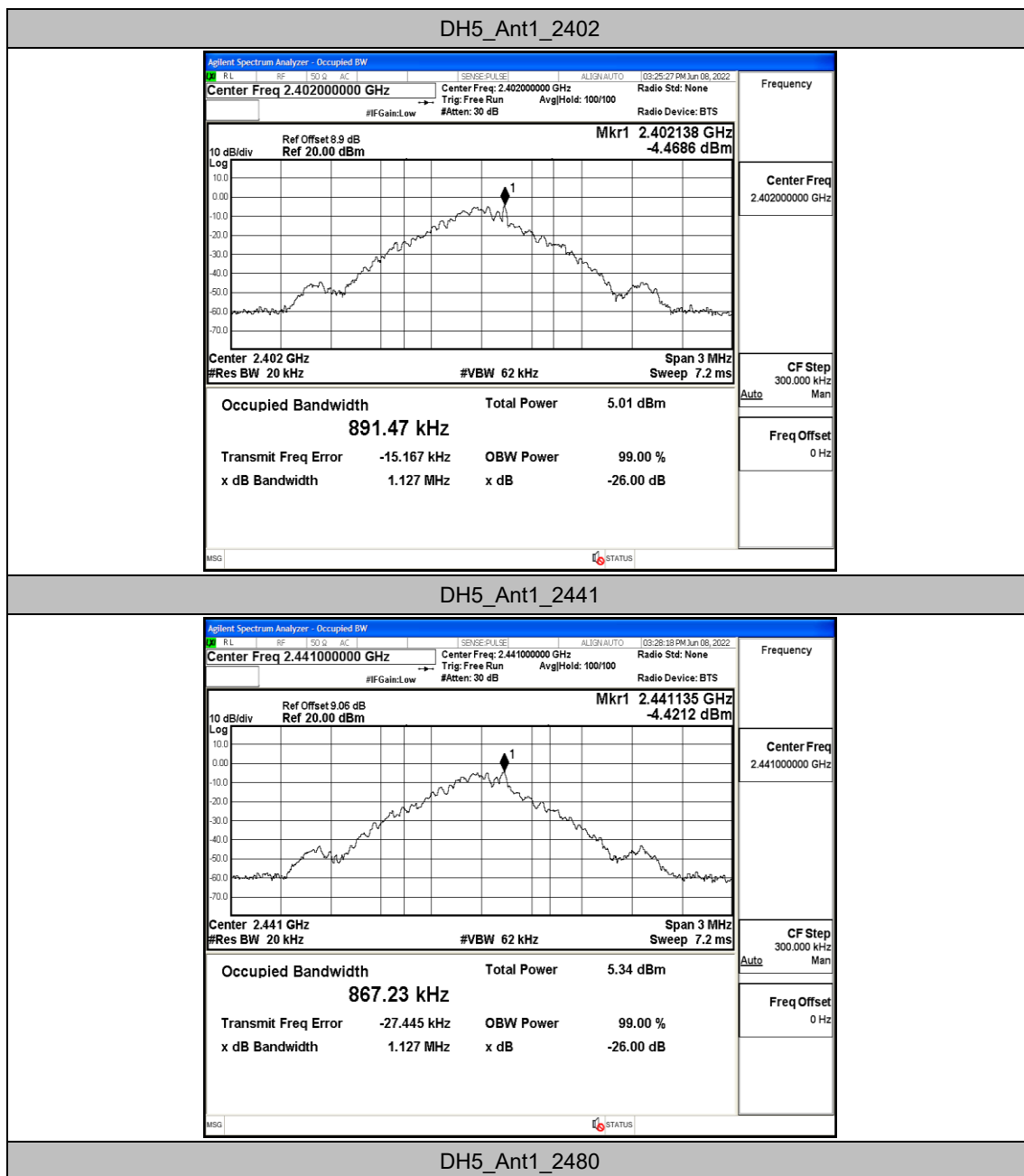


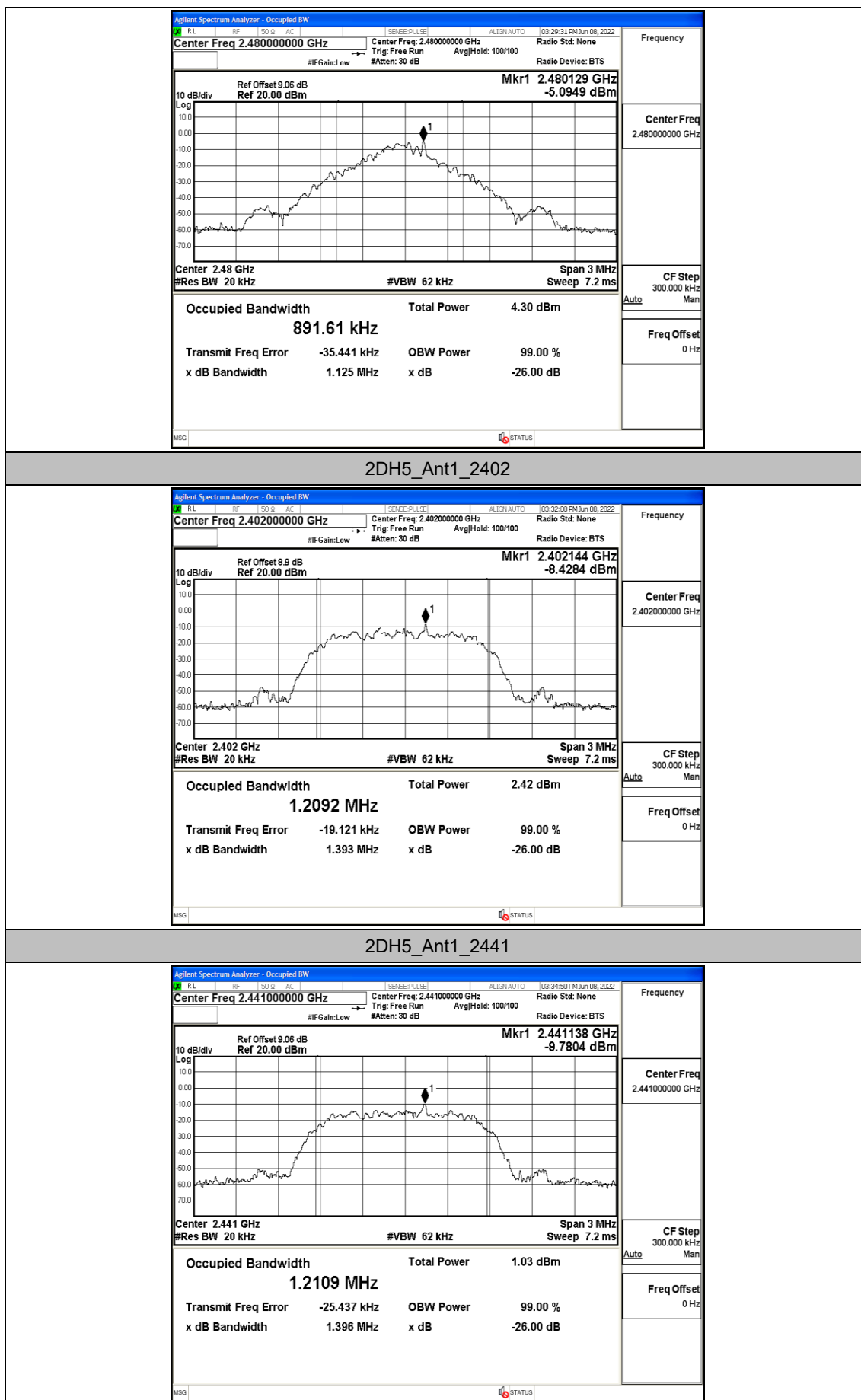
Appendix B: Occupied Channel Bandwidth

Test Result

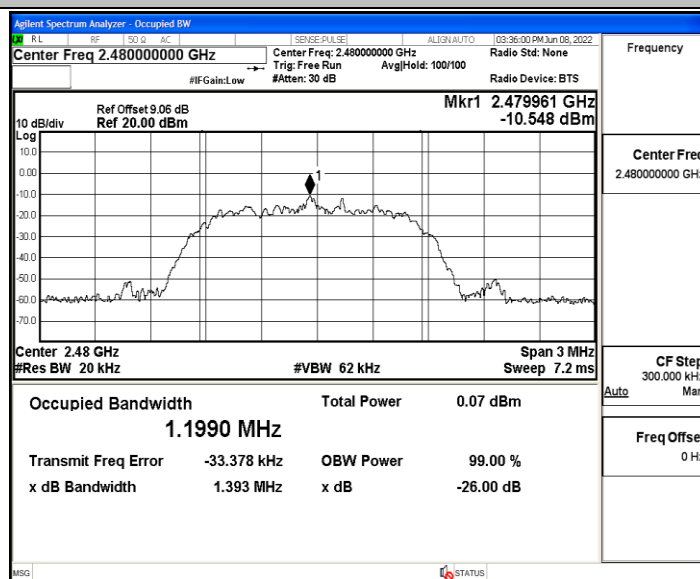
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89147	2401.539	2402.431	---	---
		2441	0.86723	2440.539	2441.406	---	---
		2480	0.89161	2479.519	2480.410	---	---
2DH5	Ant1	2402	1.2092	2401.376	2402.585	---	---
		2441	1.2109	2440.369	2441.580	---	---
		2480	1.1990	2479.367	2480.566	---	---
3DH5	Ant1	2402	1.2057	2401.369	2402.575	---	---
		2441	1.2034	2440.365	2441.568	---	---
		2480	1.2088	2479.356	2480.564	---	---

Test Graphs

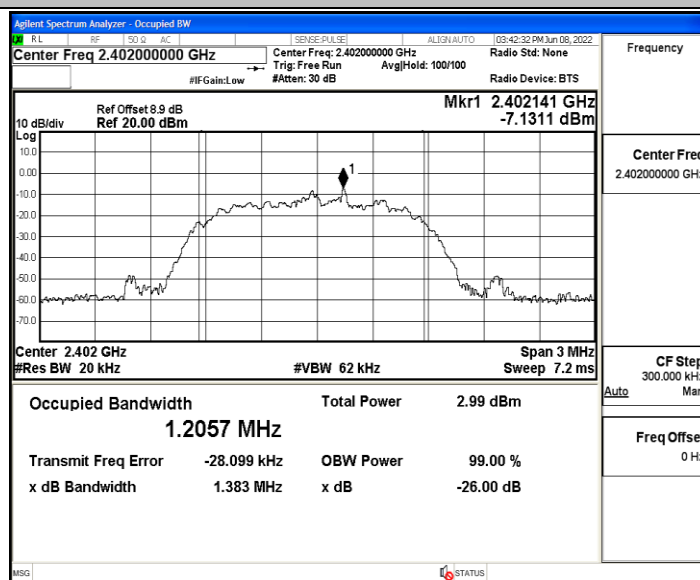




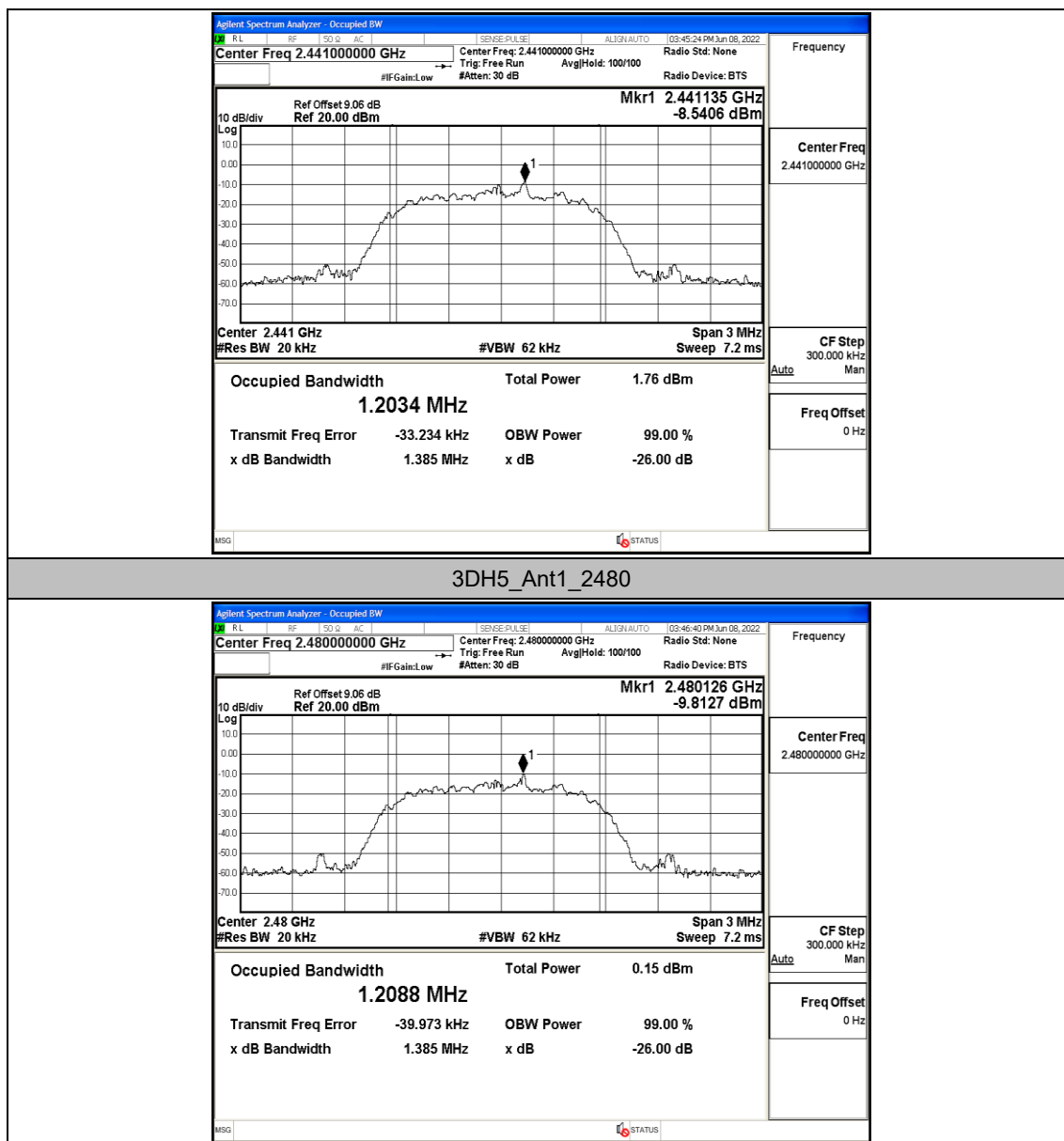
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



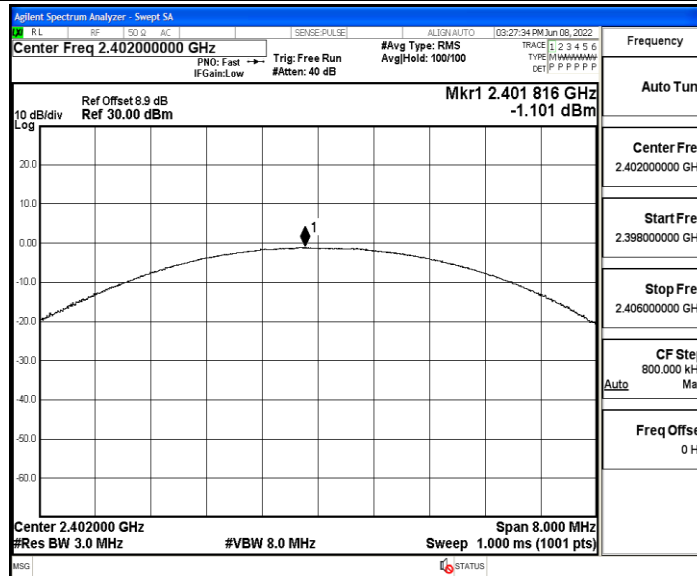
Appendix C: Maximum conducted output power

Test Result

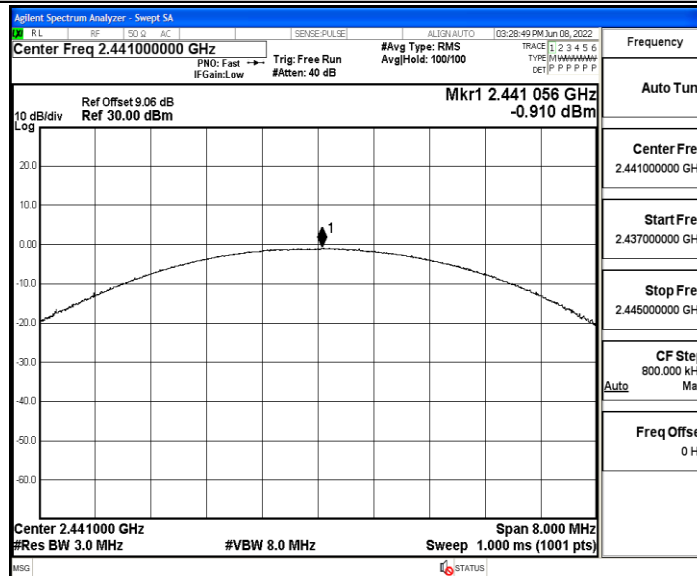
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-1.1	≤20.97	PASS
		2441	-0.91	≤20.97	PASS
		2480	-1.73	≤20.97	PASS
2DH5	Ant1	2402	-1.77	≤20.97	PASS
		2441	-3	≤20.97	PASS
		2480	-4.19	≤20.97	PASS
3DH5	Ant1	2402	-1.12	≤20.97	PASS
		2441	-2.47	≤20.97	PASS
		2480	-3.75	≤20.97	PASS

Test Graphs

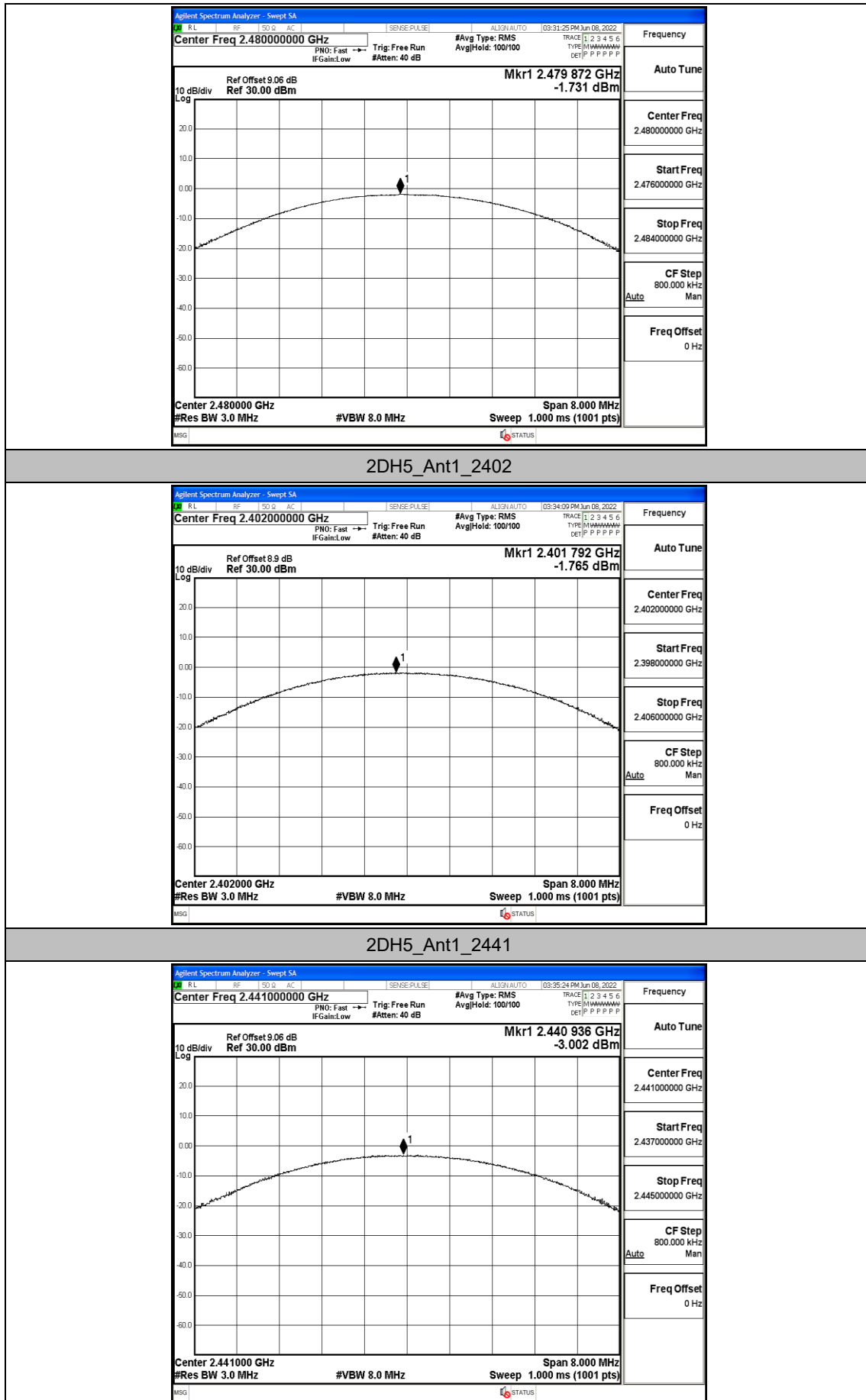
DH5_Ant1_2402



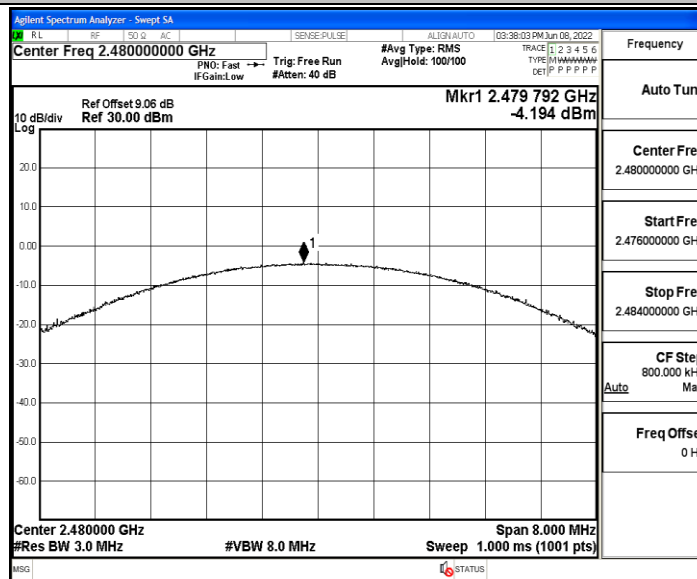
DH5_Ant1_2441



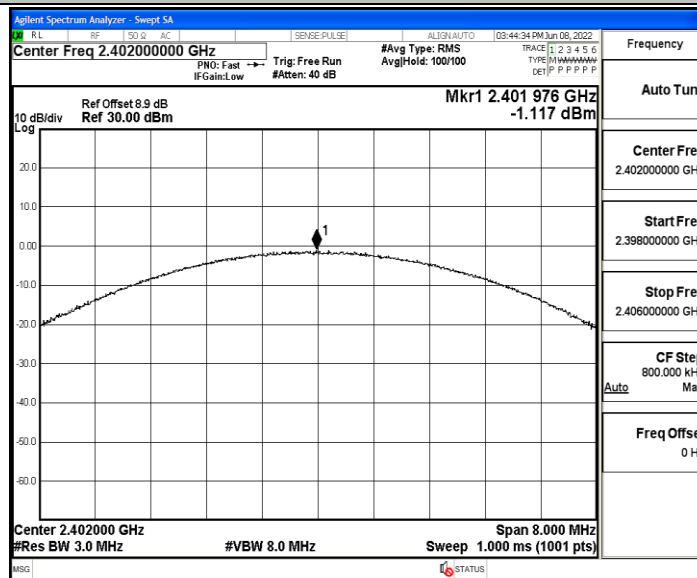
DH5_Ant1_2480



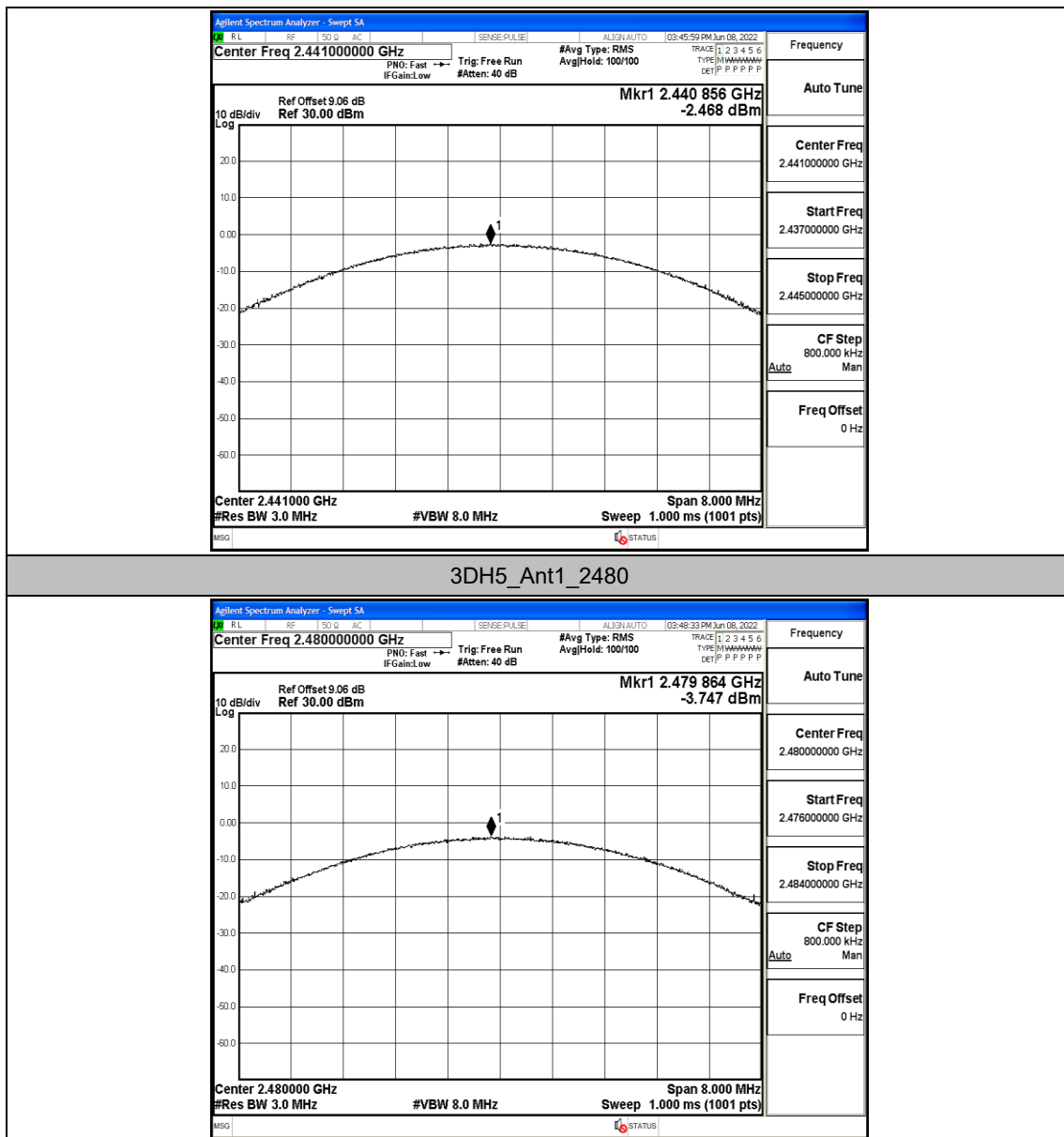
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

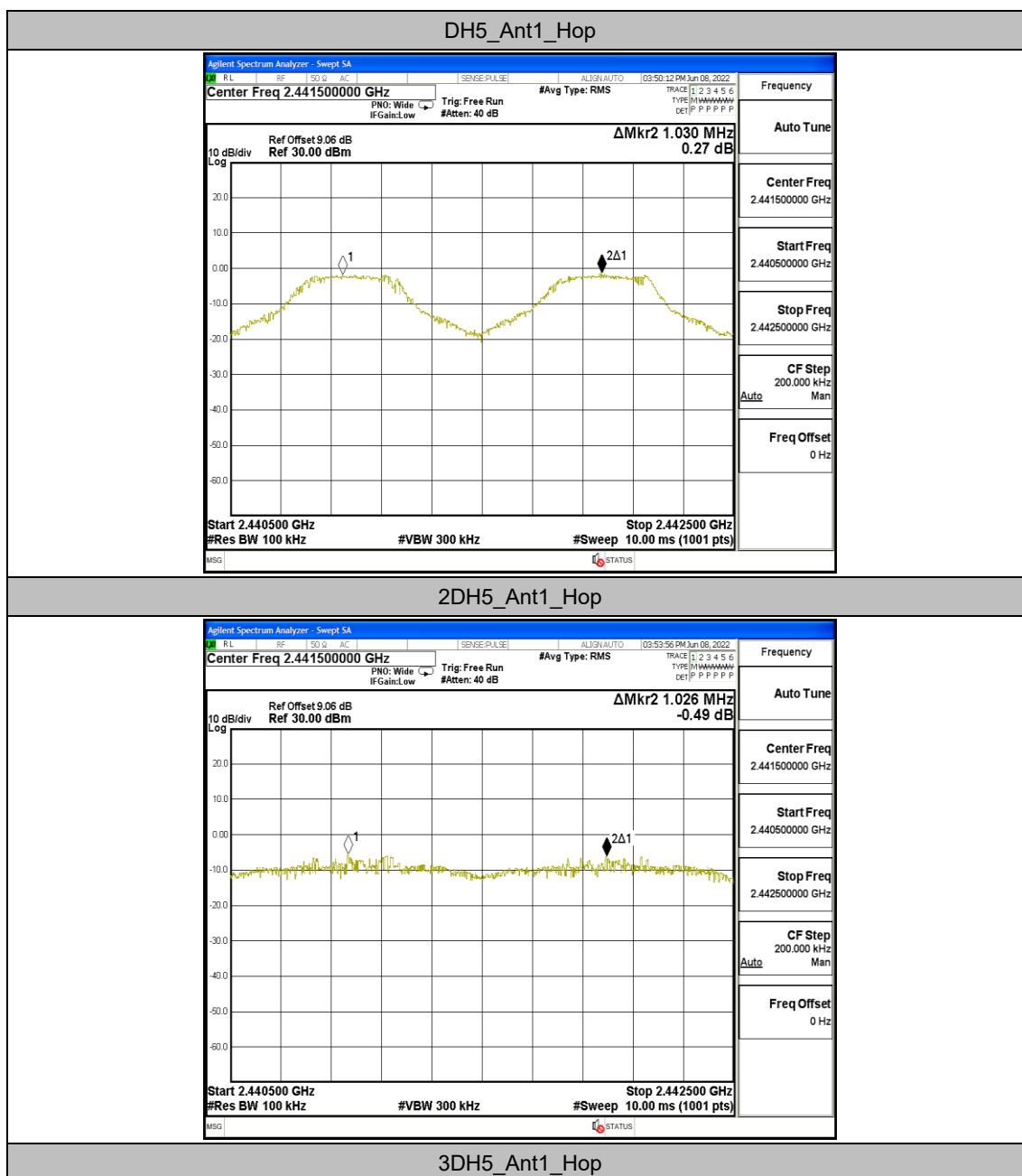


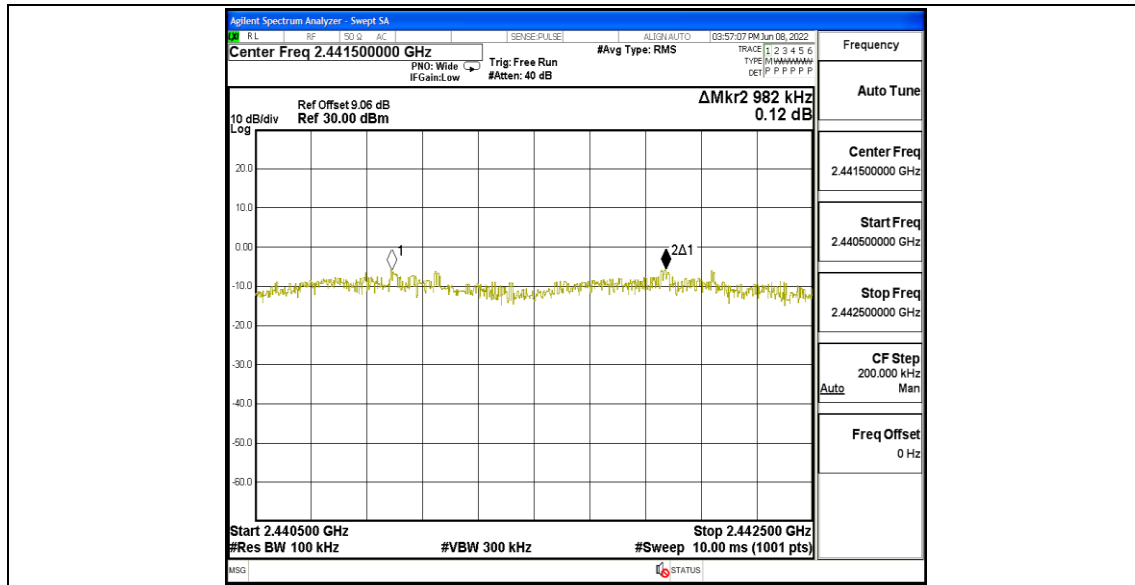
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.03	≥ 1.029	PASS
2DH5	Ant1	Hop	1.026	≥ 0.898	PASS
3DH5	Ant1	Hop	0.982	≥ 0.906	PASS

Test Graphs



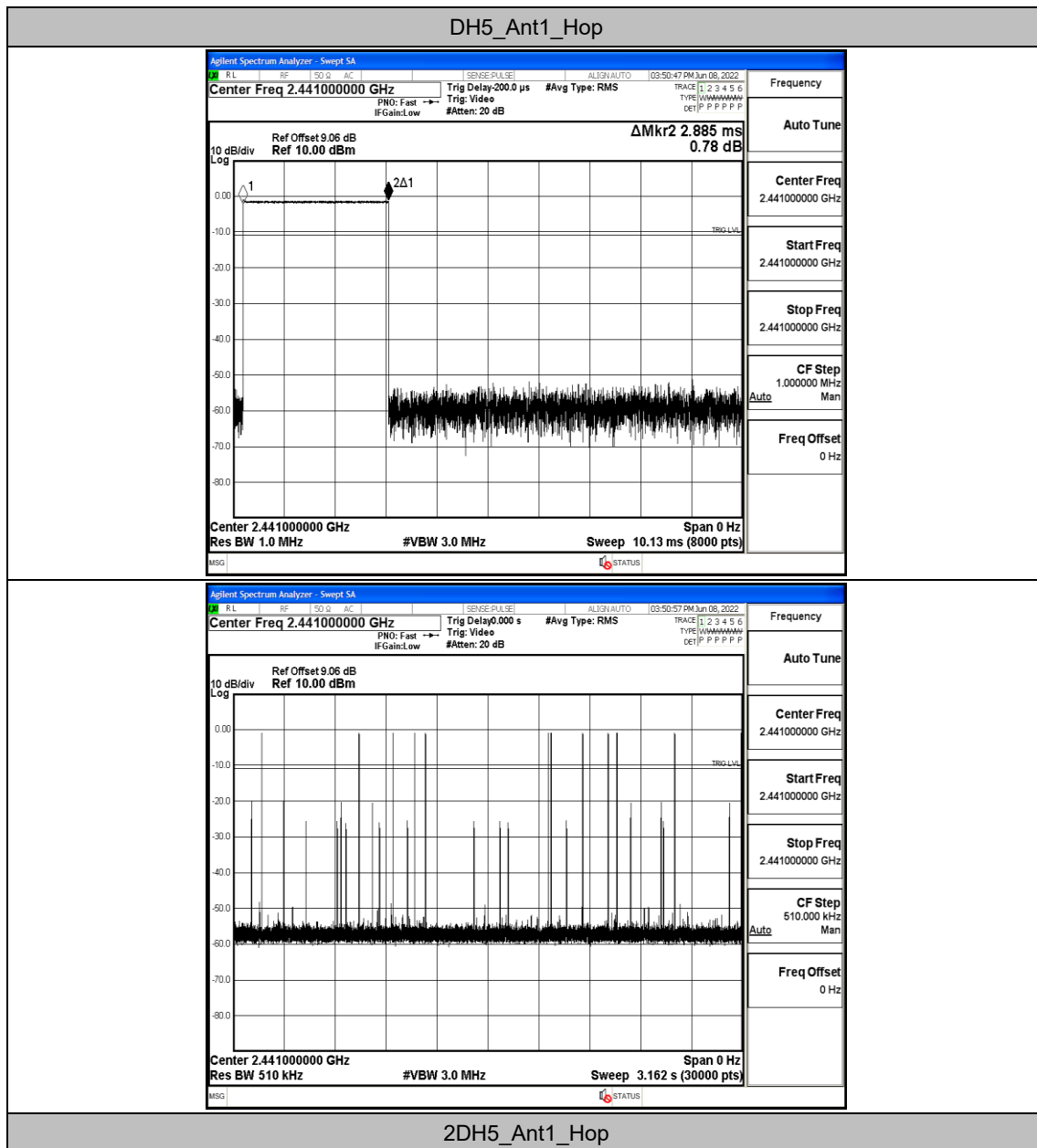


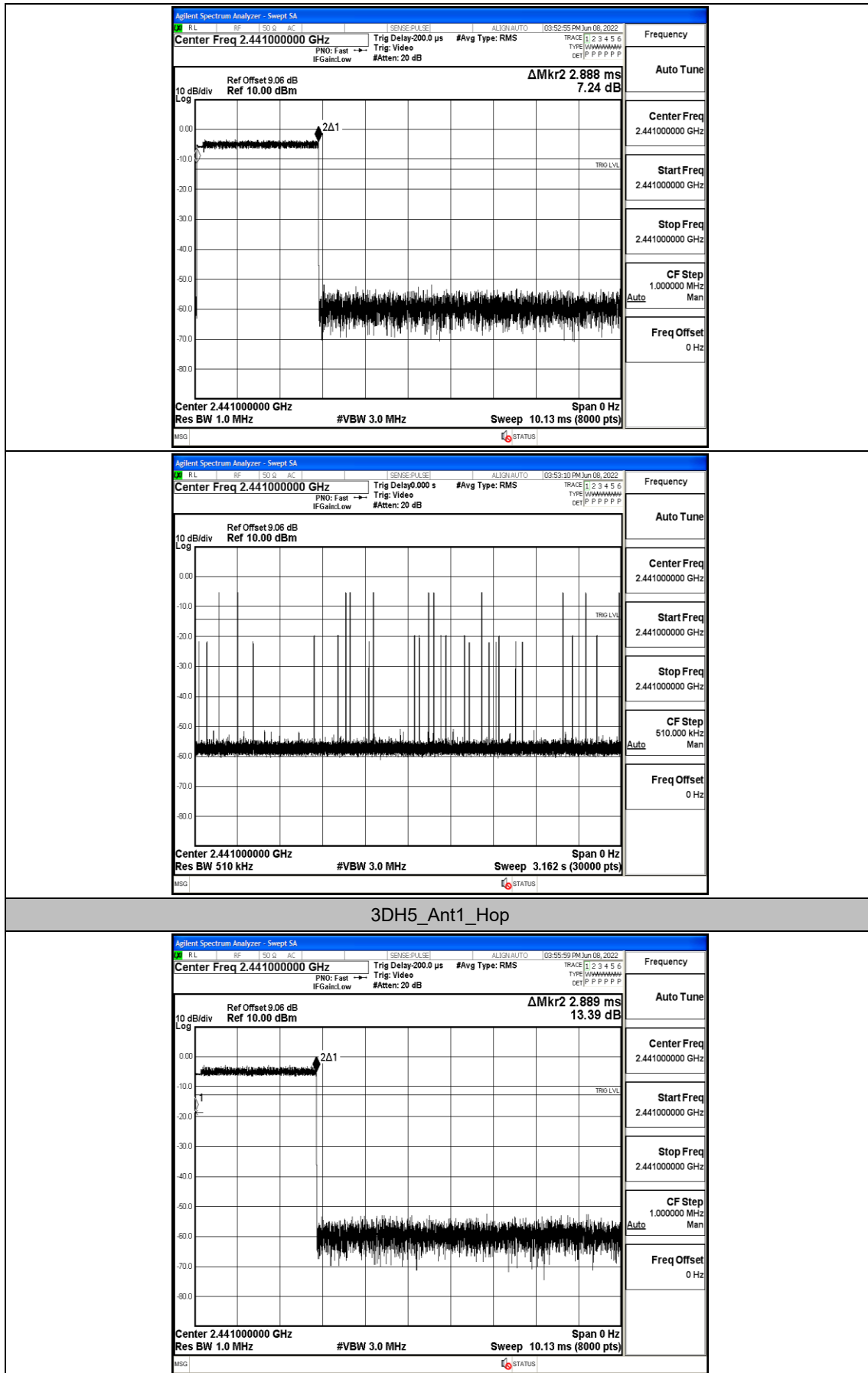
Appendix E: Time of occupancy

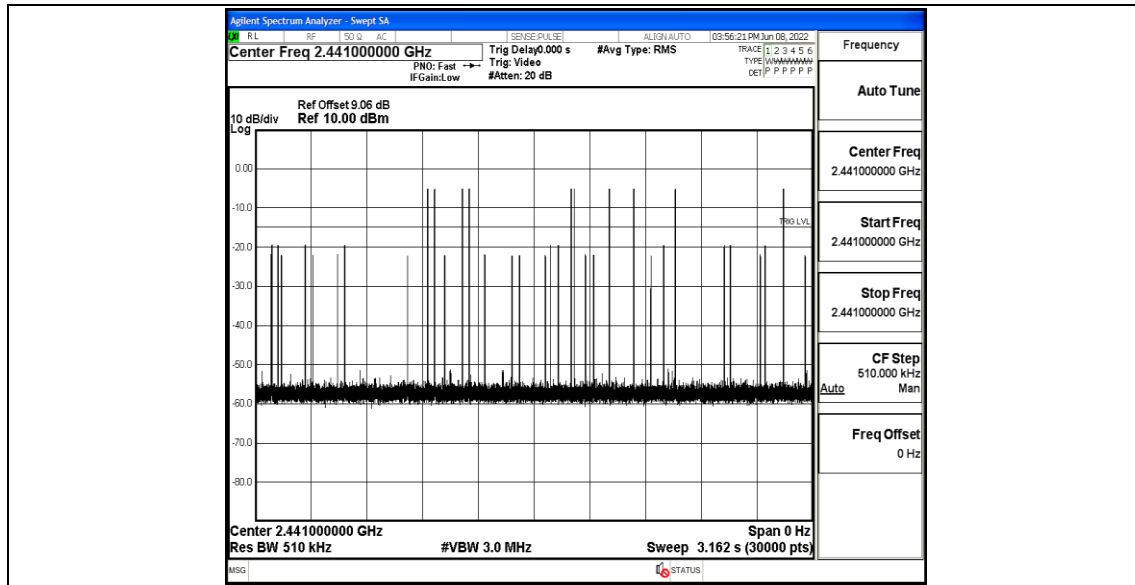
Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.89	130	0.375	≤0.4	PASS
2DH5	Ant1	Hop	2.89	120	0.347	≤0.4	PASS
3DH5	Ant1	Hop	2.89	120	0.347	≤0.4	PASS

Test Graphs





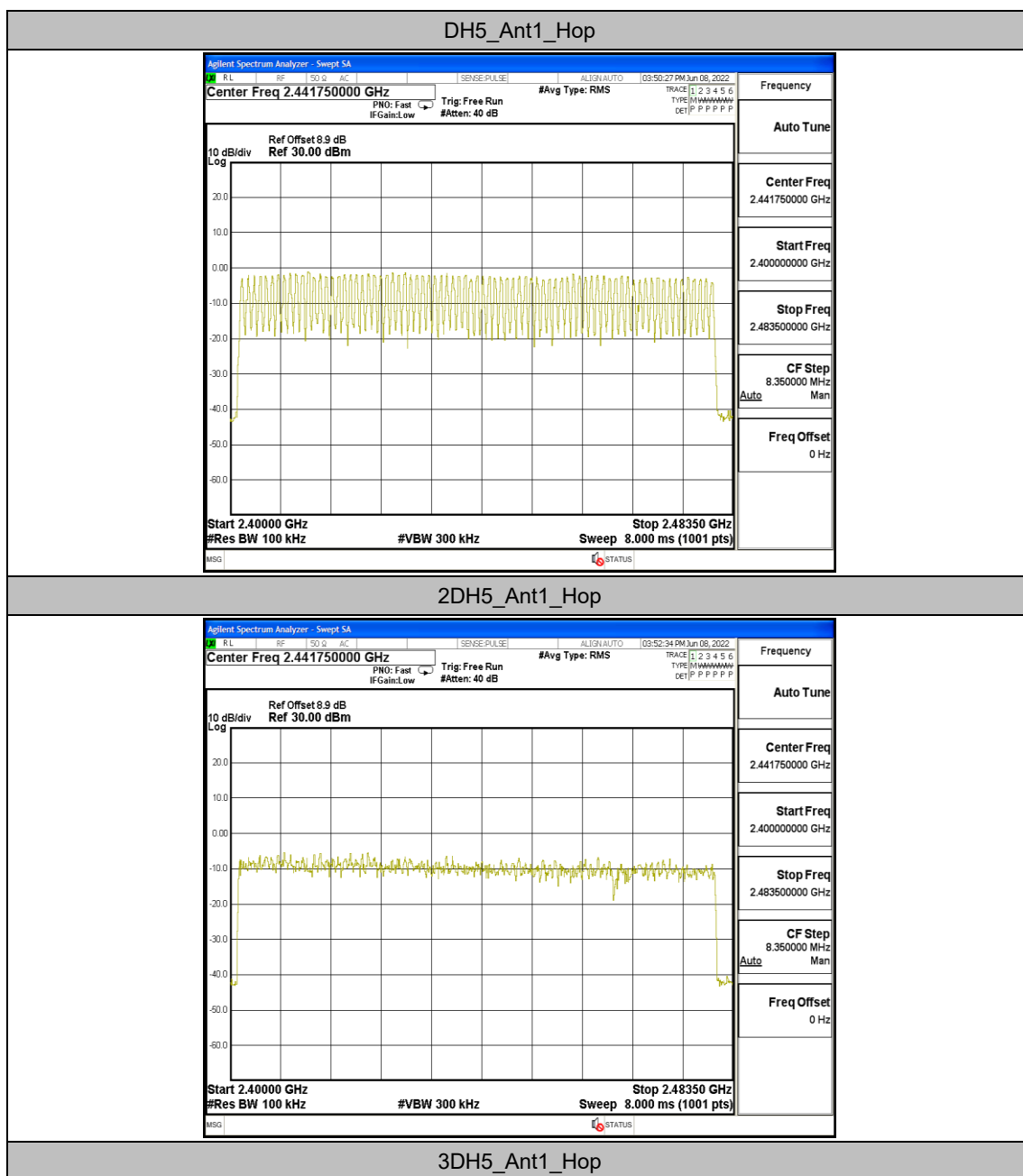


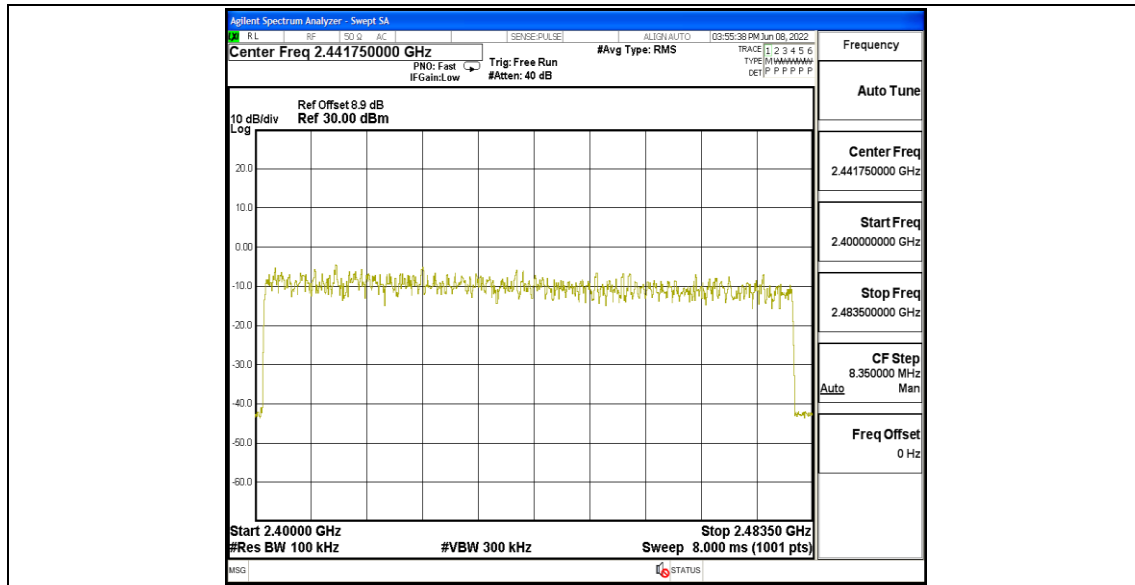
Appendix F: Number of hopping channels

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





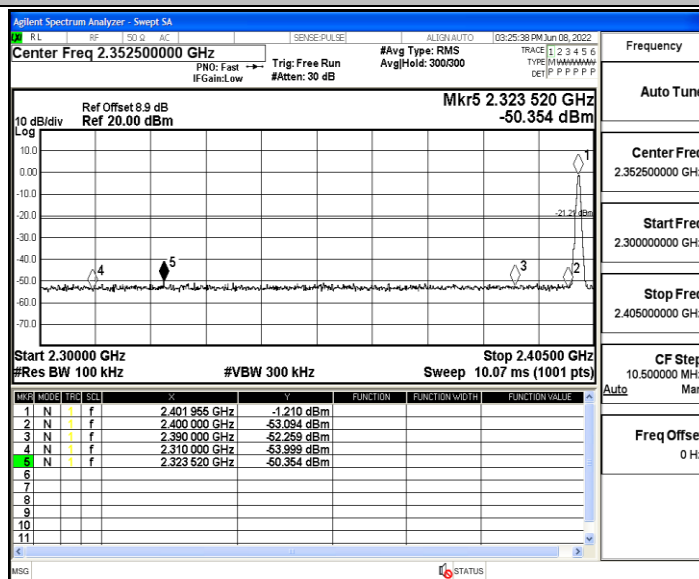
Appendix G: Band edge measurements

Test Result

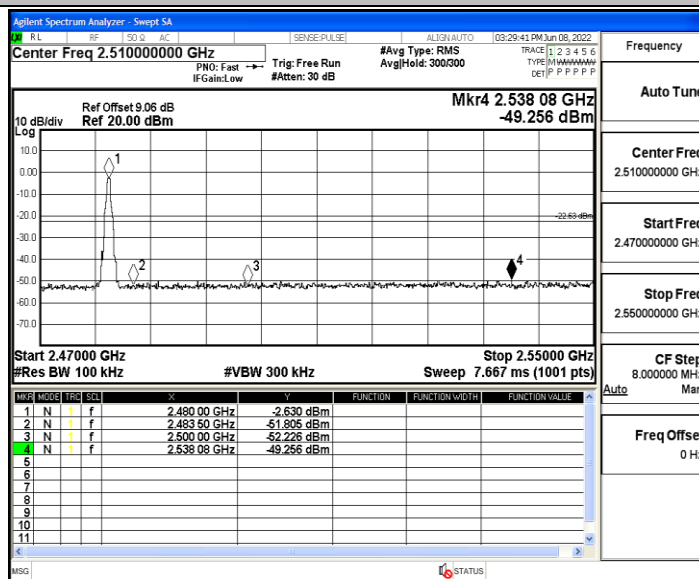
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.21	-50.35	≤ -21.21	PASS
		High	2480	-2.63	-49.26	≤ -22.63	PASS
		Low	Hop_2402	-1.83	-51.06	≤ -21.83	PASS
		High	Hop_2480	-2.68	-49.53	≤ -22.68	PASS
2DH5	Ant1	Low	2402	-4.33	-50.39	≤ -24.33	PASS
		High	2480	-6.94	-49.03	≤ -26.94	PASS
		Low	Hop_2402	-7.29	-50.26	≤ -27.29	PASS
		High	Hop_2480	-6.45	-48.4	≤ -26.45	PASS
3DH5	Ant1	Low	2402	-4.56	-49.64	≤ -24.56	PASS
		High	2480	-7.20	-49.12	≤ -27.2	PASS
		Low	Hop_2402	-7.01	-50.59	≤ -27.01	PASS
		High	Hop_2480	-6.67	-48	≤ -26.67	PASS

Test Graphs

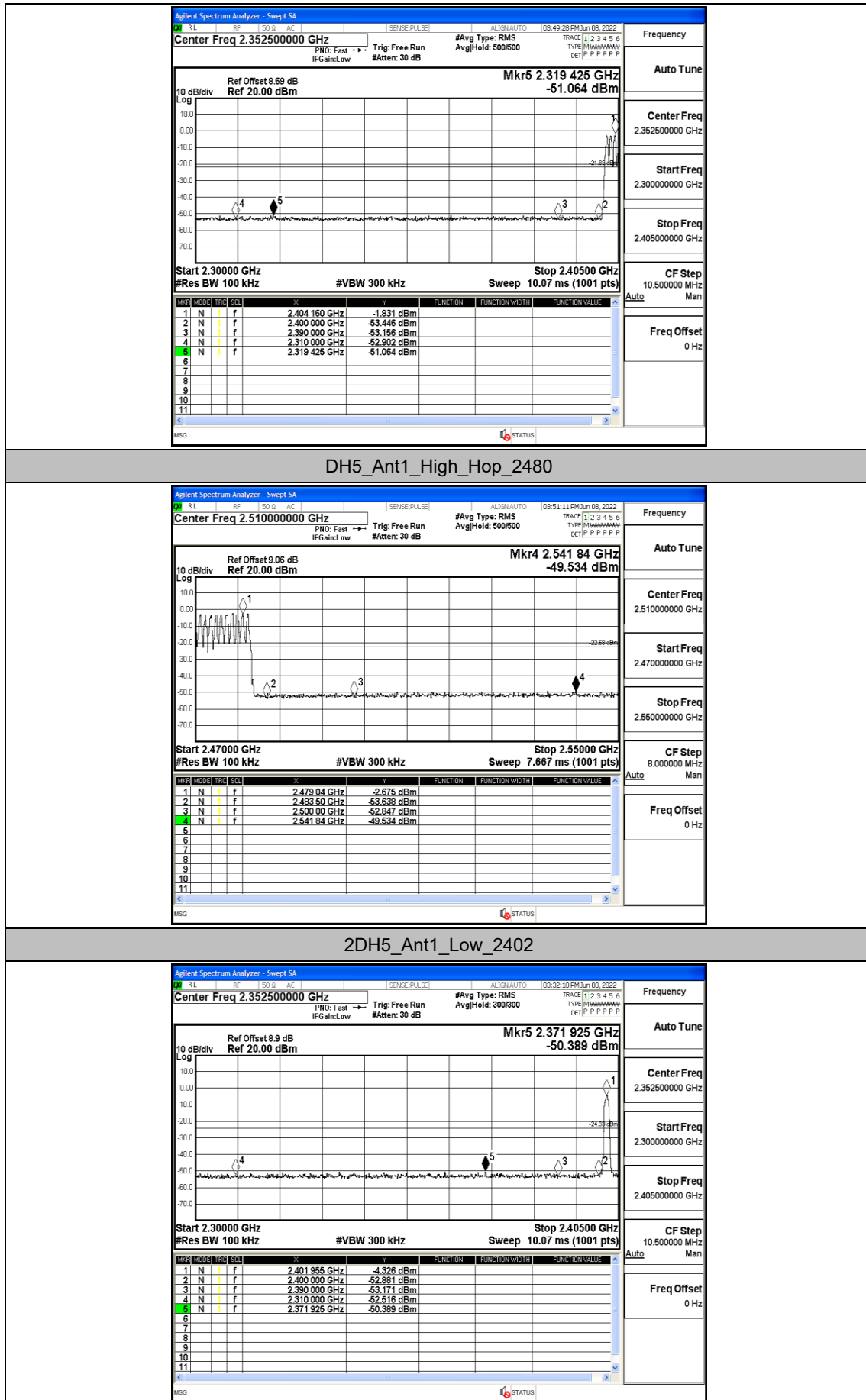
DH5_Ant1_Low_2402



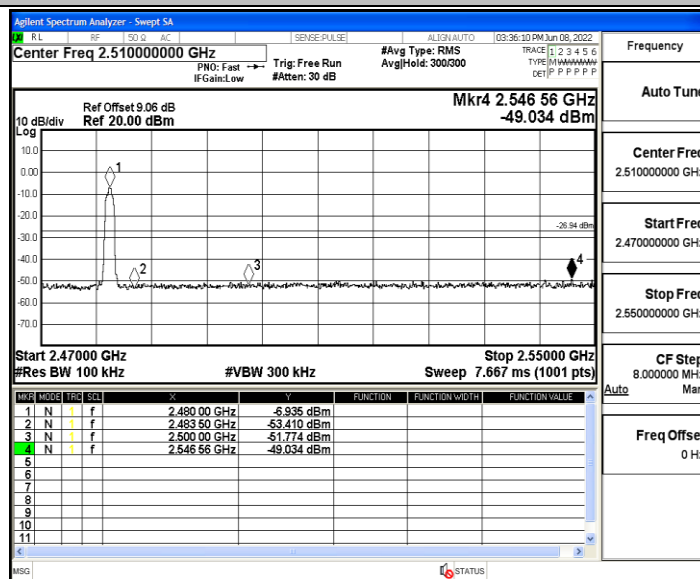
DH5_Ant1_High_2480



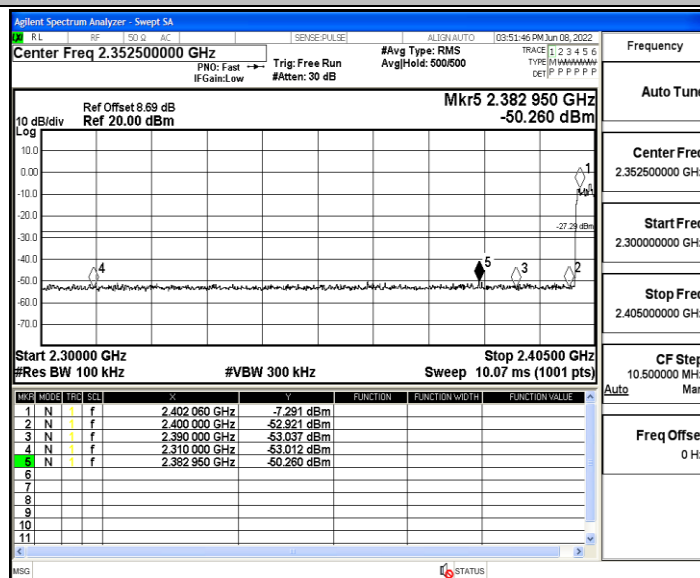
DH5_Ant1_Low_Hop_2402



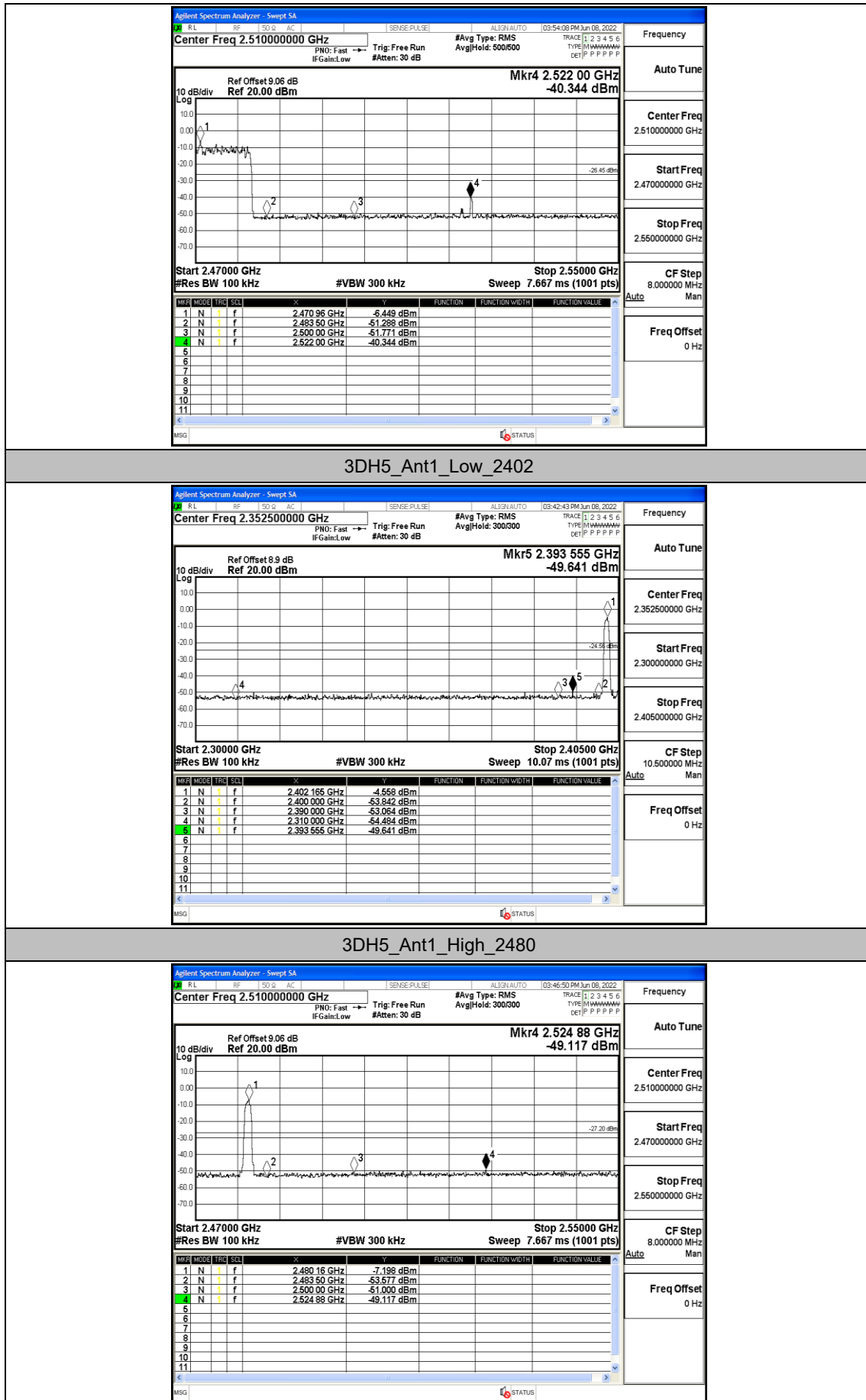
2DH5_Ant1_High_2480



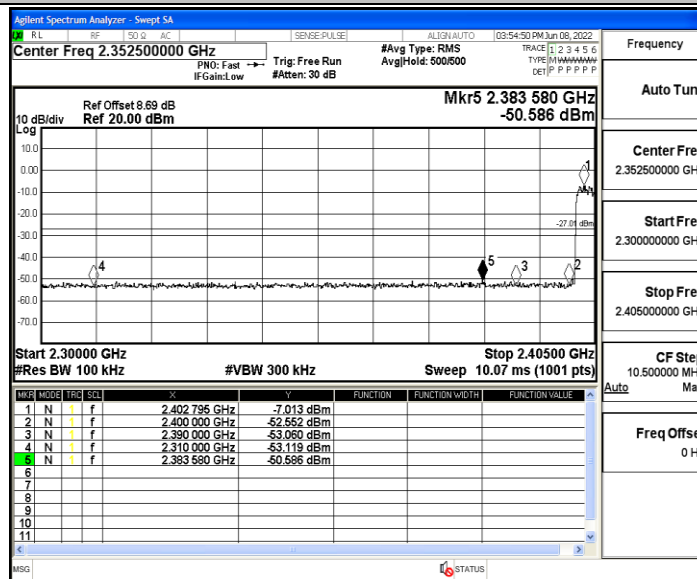
2DH5_Ant1_Low_Hop_2402



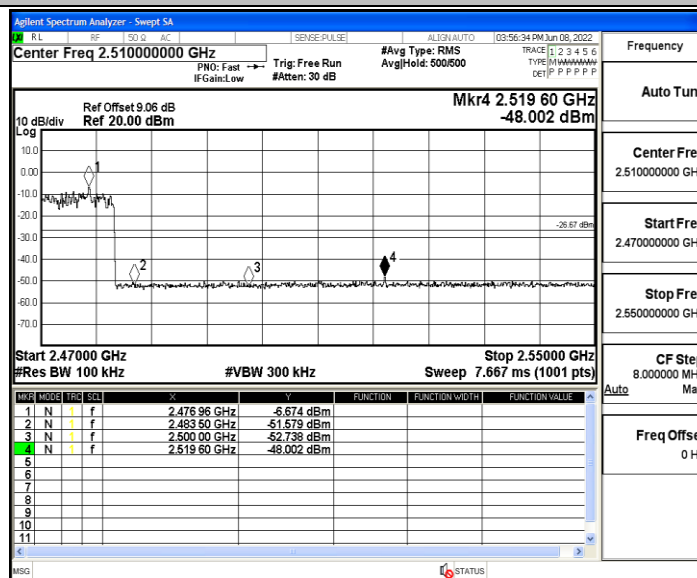
2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

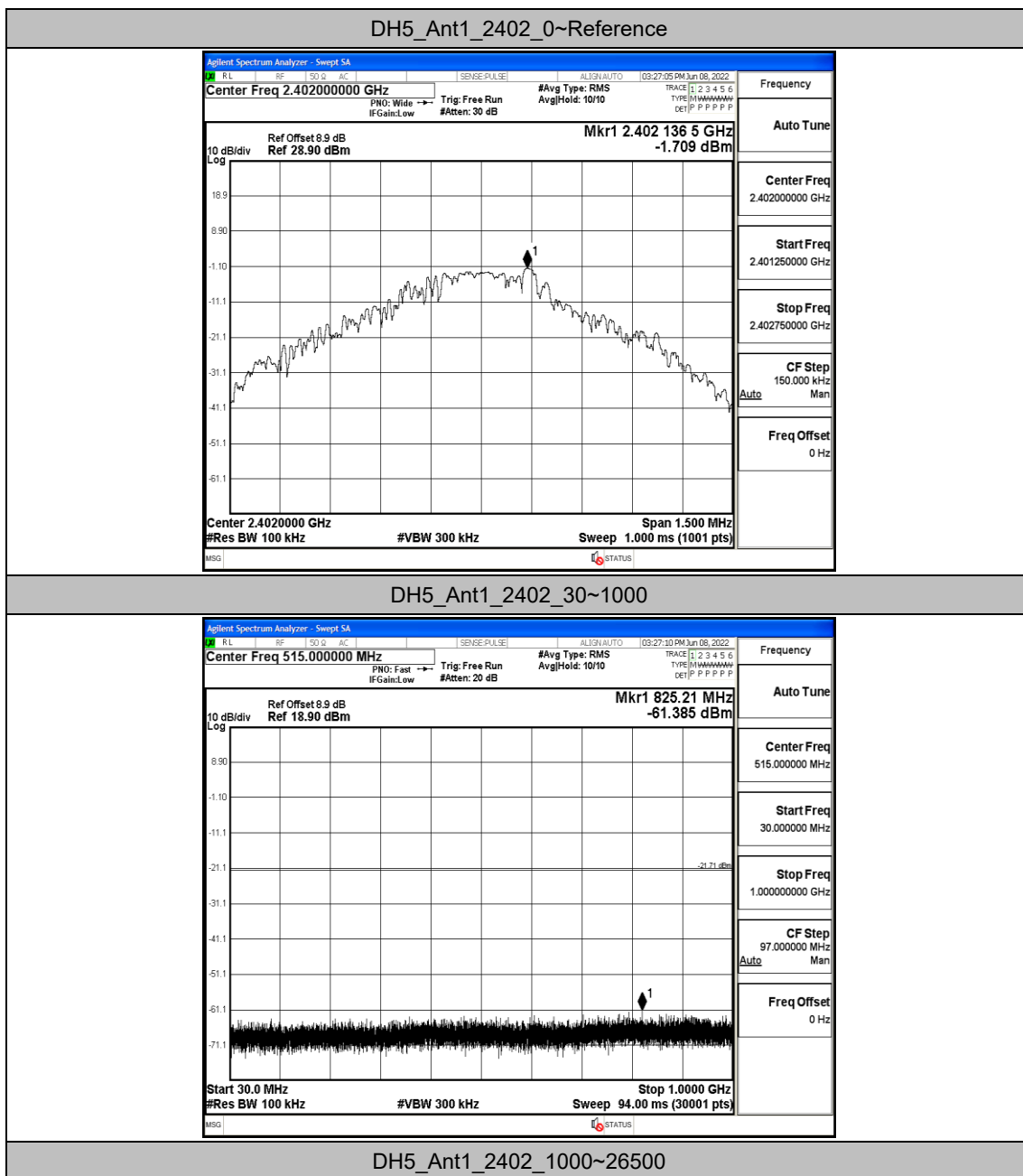


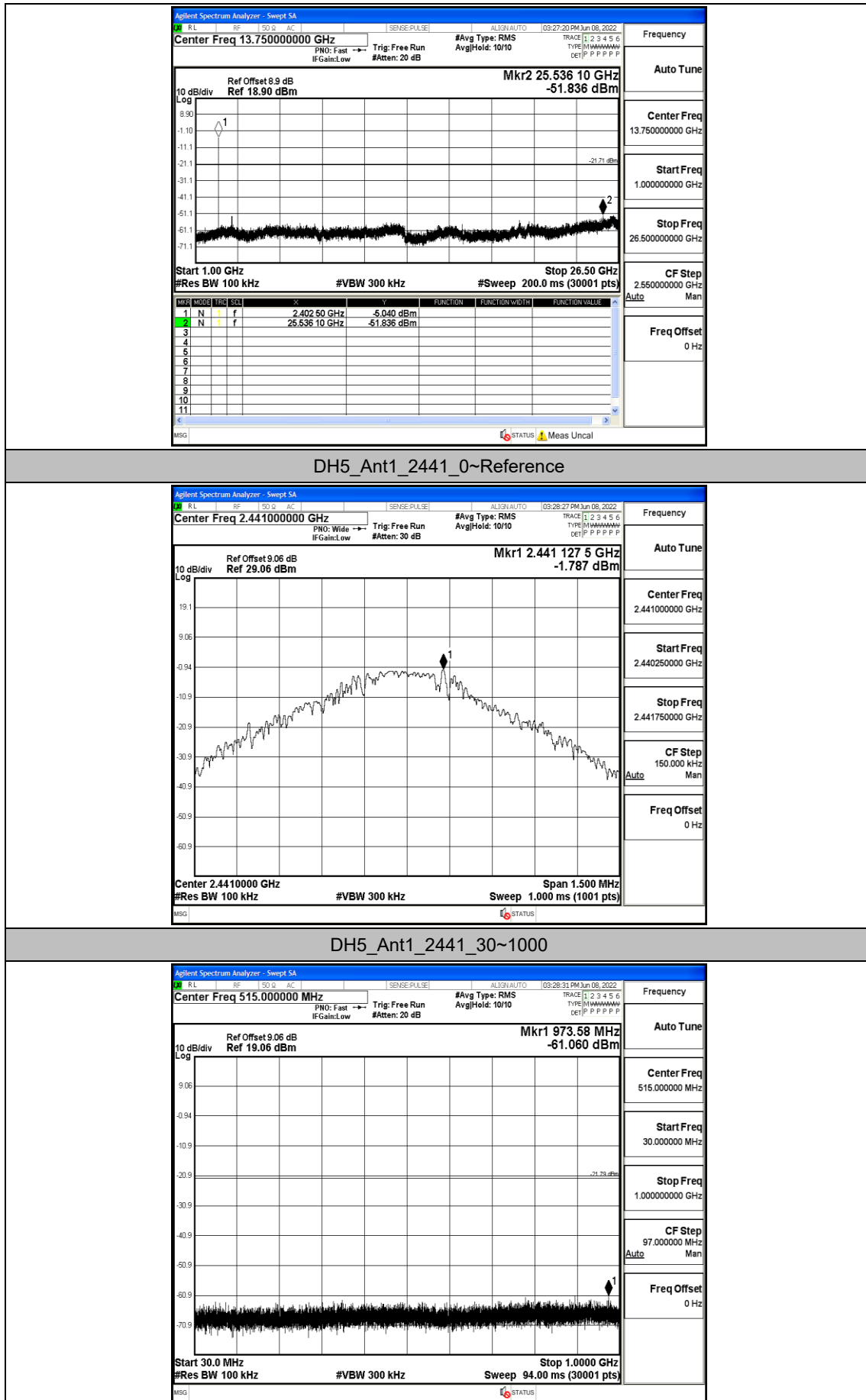
Appendix H: Conducted Spurious Emission

Test Result

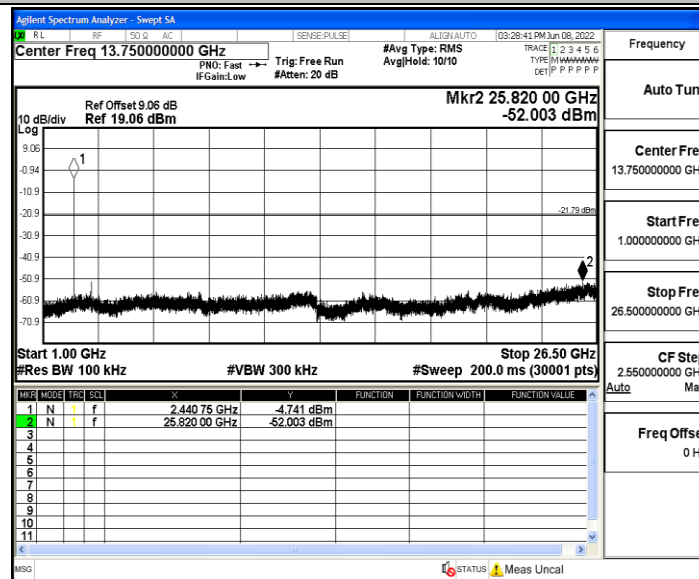
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.71	-1.71	---	PASS
			30~1000	-1.71	-61.39	≤-21.71	PASS
			1000~26500	-1.71	-51.84	≤-21.71	PASS
		2441	Reference	-1.79	-1.79	---	PASS
			30~1000	-1.79	-61.06	≤-21.79	PASS
			1000~26500	-1.79	-52	≤-21.79	PASS
		2480	Reference	-3.11	-3.11	---	PASS
			30~1000	-3.11	-61.29	≤-23.11	PASS
			1000~26500	-3.11	-50.63	≤-23.11	PASS
2DH5	Ant1	2402	Reference	-6.52	-6.52	---	PASS
			30~1000	-6.52	-61.85	≤-26.52	PASS
			1000~26500	-6.52	-50.11	≤-26.52	PASS
		2441	Reference	-7.58	-7.58	---	PASS
			30~1000	-7.58	-61.84	≤-27.58	PASS
			1000~26500	-7.58	-50.56	≤-27.58	PASS
		2480	Reference	-8.20	-8.20	---	PASS
			30~1000	-8.20	-57.37	≤-28.2	PASS
			1000~26500	-8.20	-51.76	≤-28.2	PASS
3DH5	Ant1	2402	Reference	-6.04	-6.04	---	PASS
			30~1000	-6.04	-60.98	≤-26.04	PASS
			1000~26500	-6.04	-51.18	≤-26.04	PASS
		2441	Reference	-7.51	-7.51	---	PASS
			30~1000	-7.51	-61.41	≤-27.51	PASS
			1000~26500	-7.51	-51.27	≤-27.51	PASS
		2480	Reference	-7.32	-7.32	---	PASS
			30~1000	-7.32	-60.45	≤-27.32	PASS
			1000~26500	-7.32	-51.44	≤-27.32	PASS

Test Graphs

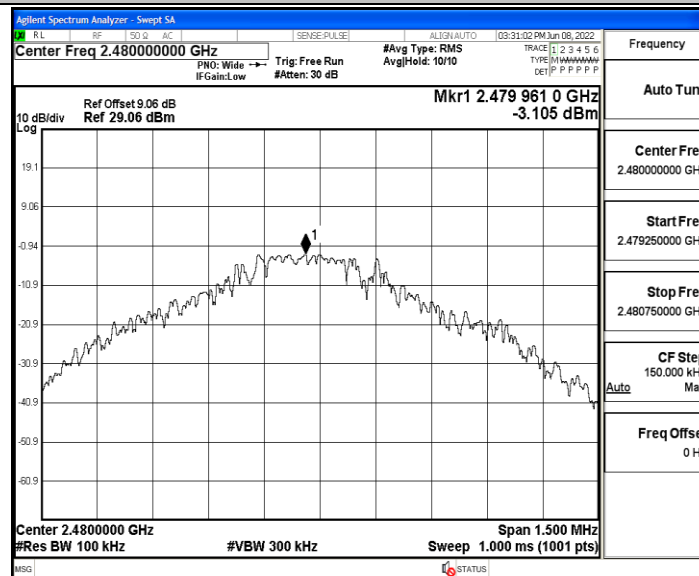




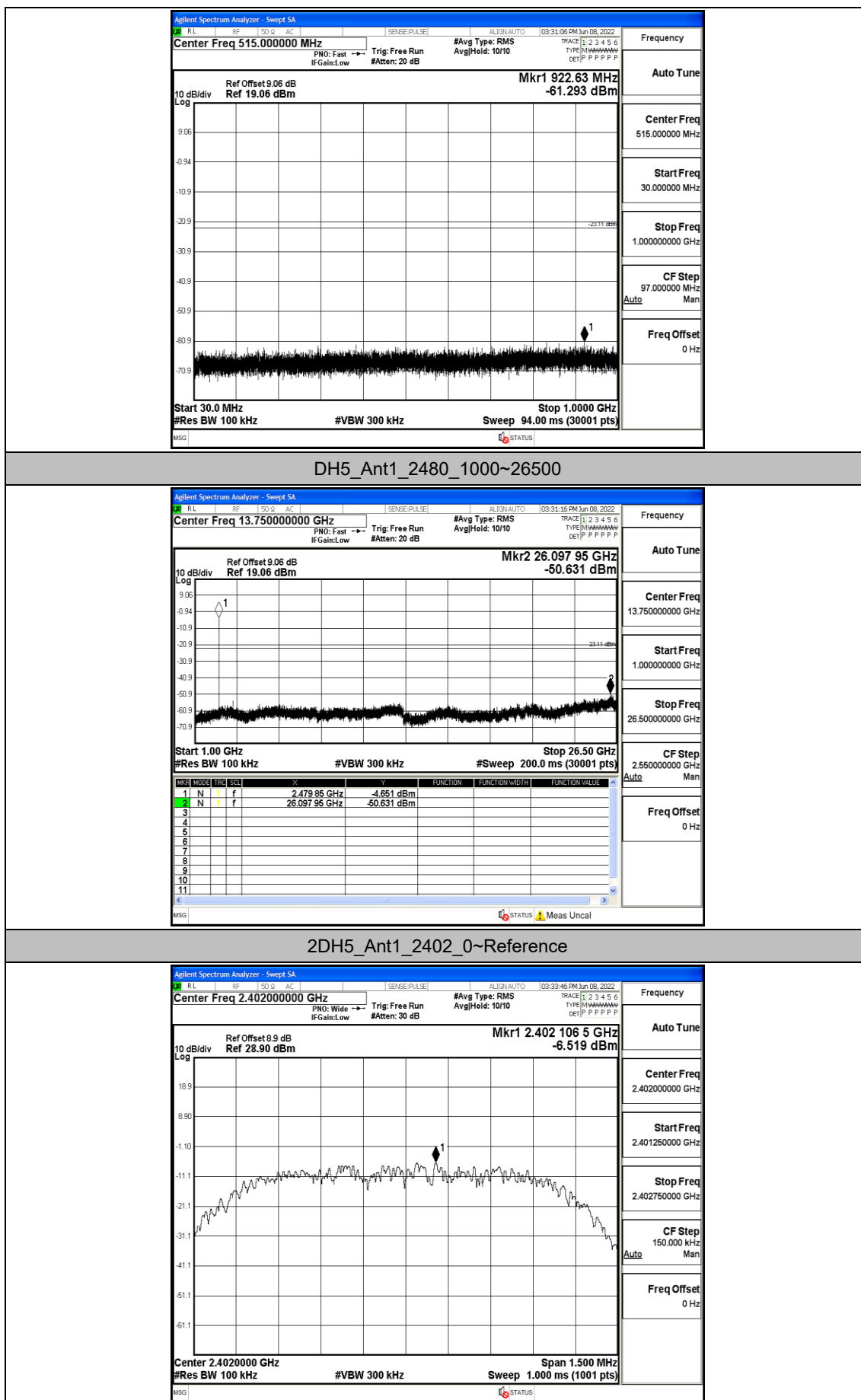
DH5_Ant1_2441_1000~26500



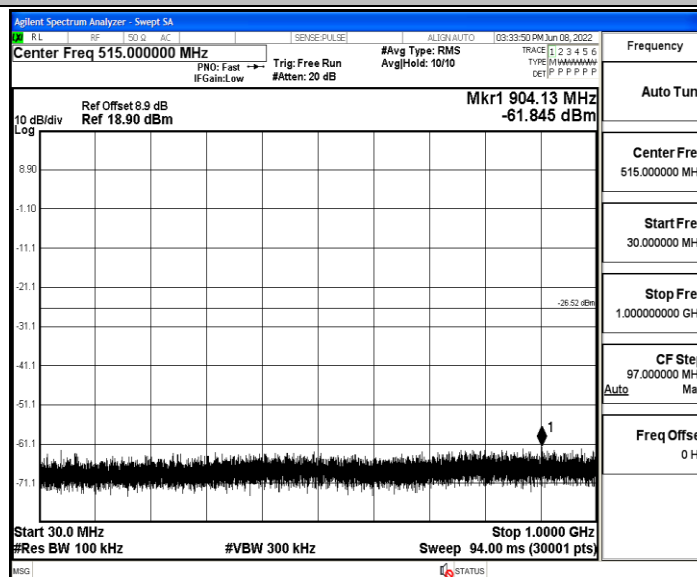
DH5_Ant1_2480_0~Reference



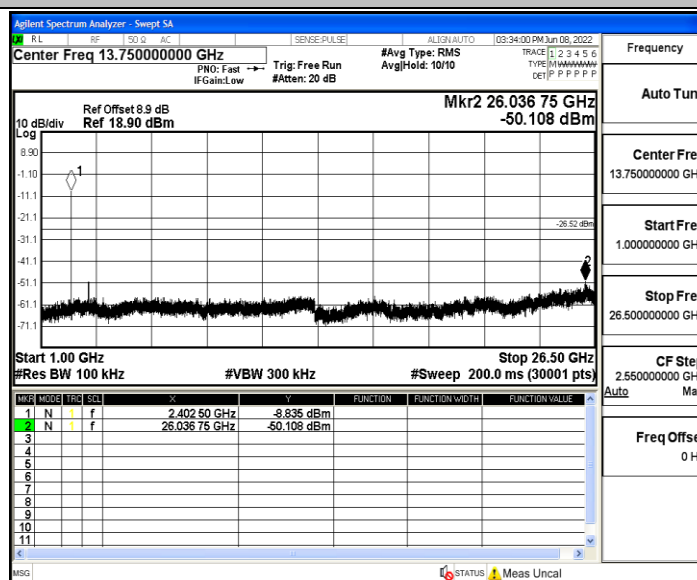
DH5_Ant1_2480_30~1000



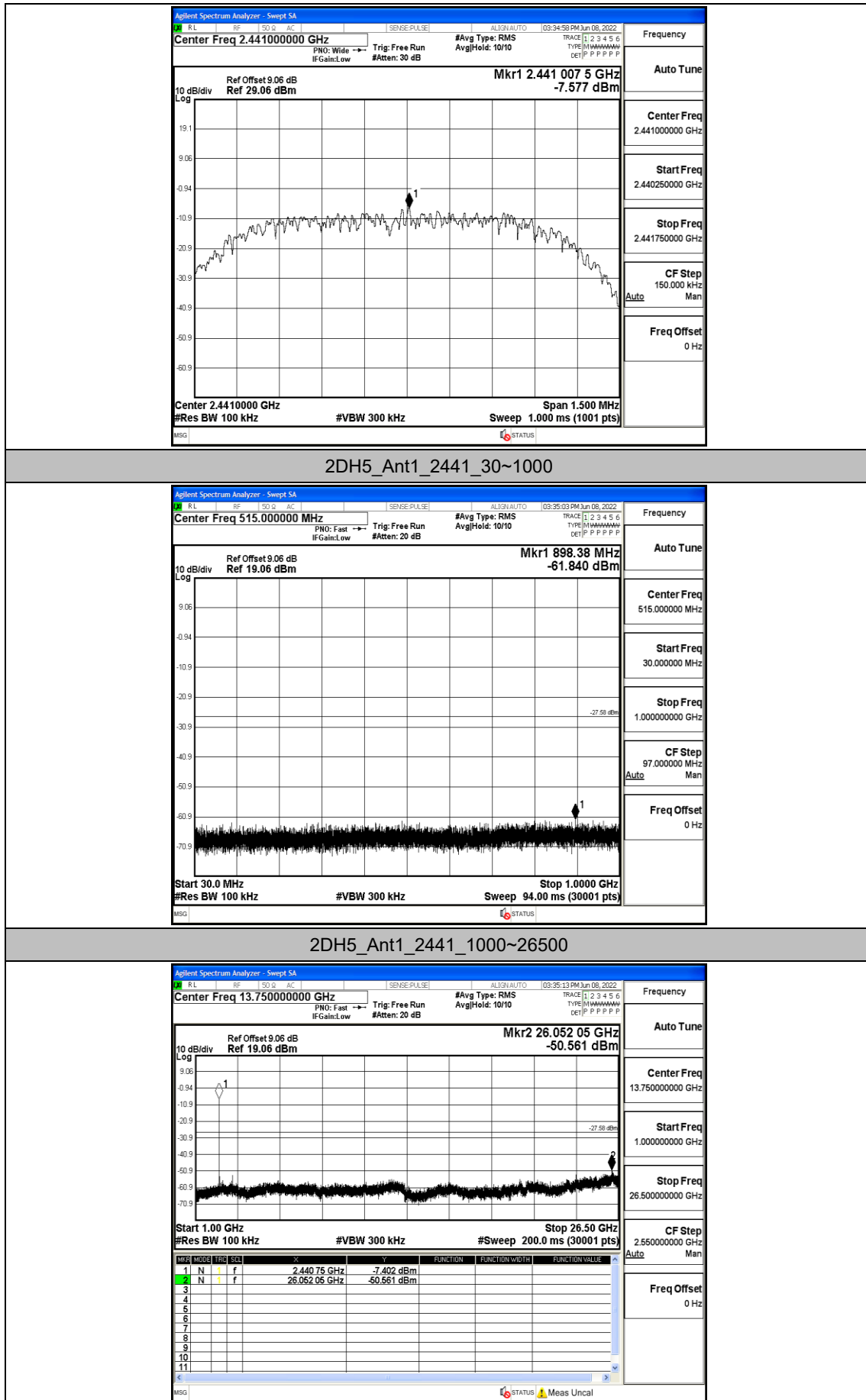
2DH5_Ant1_2402_30~1000



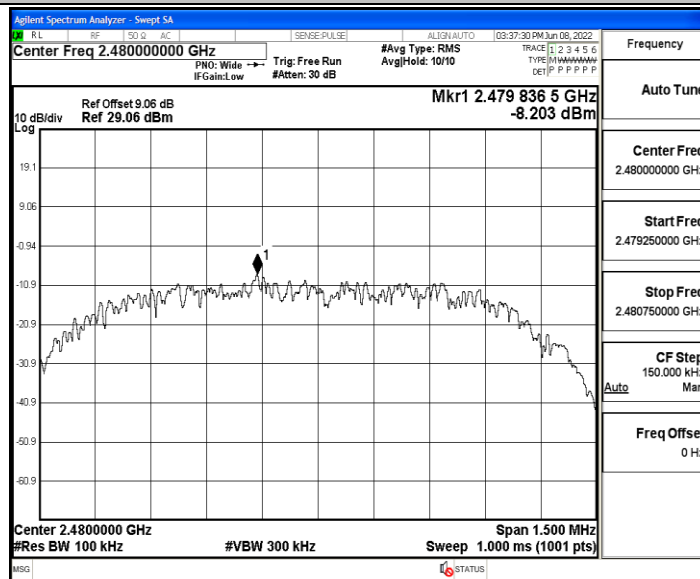
2DH5_Ant1_2402_1000~26500



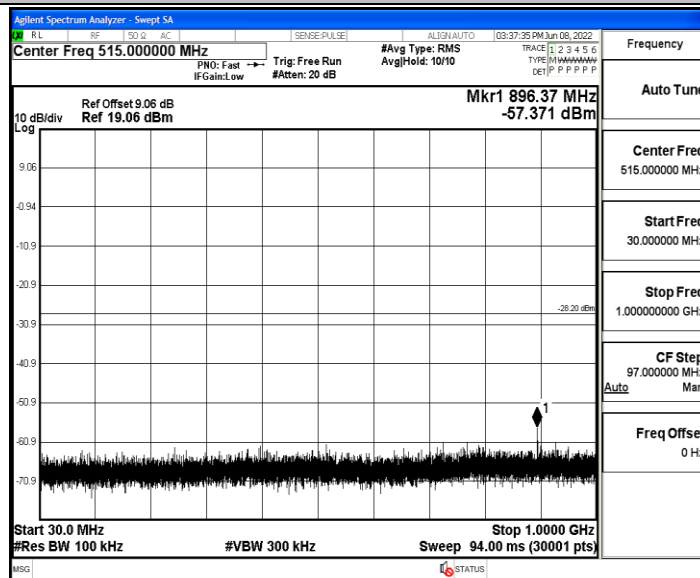
2DH5_Ant1_2441_0~Reference



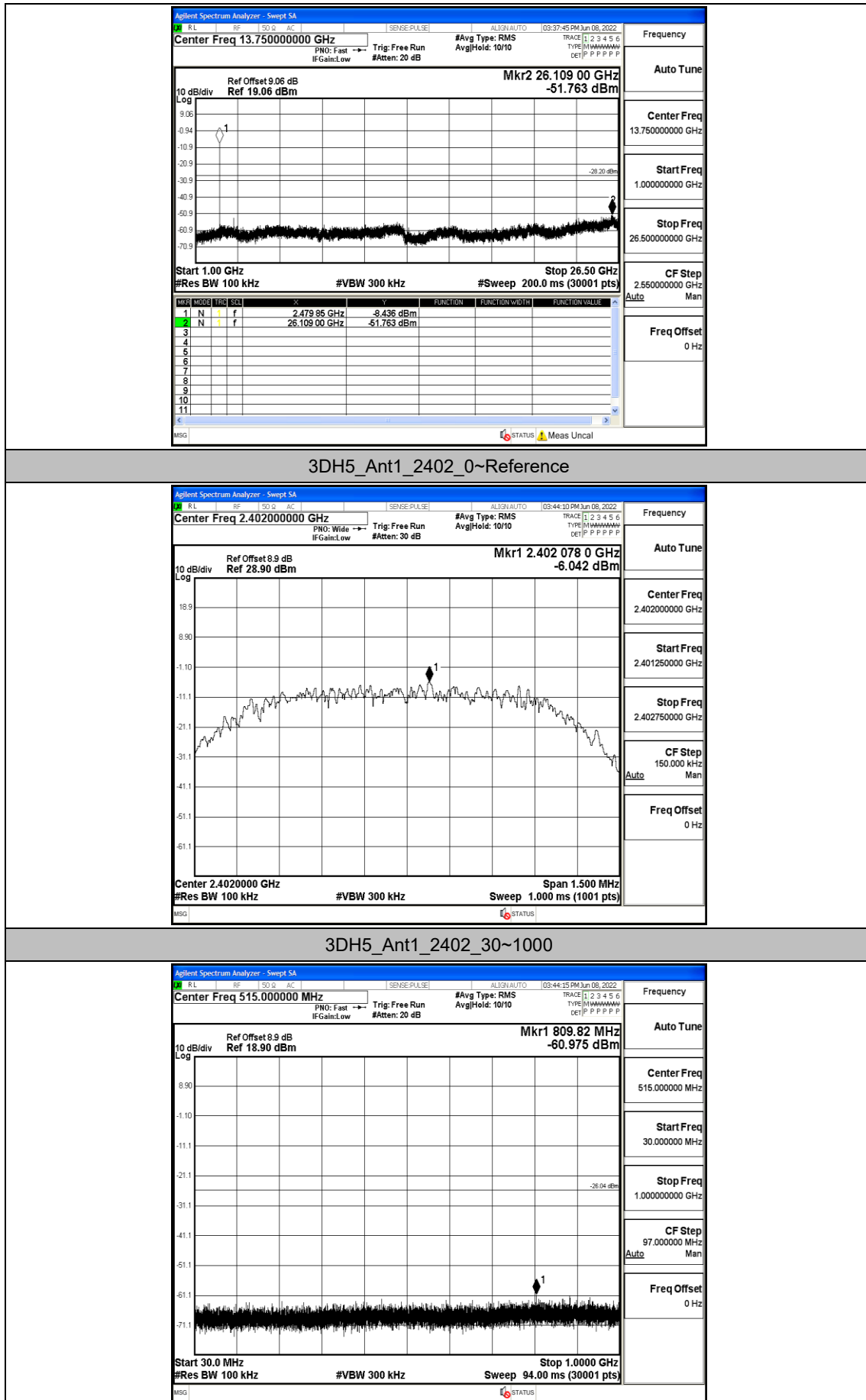
2DH5_Ant1_2480_0~Reference



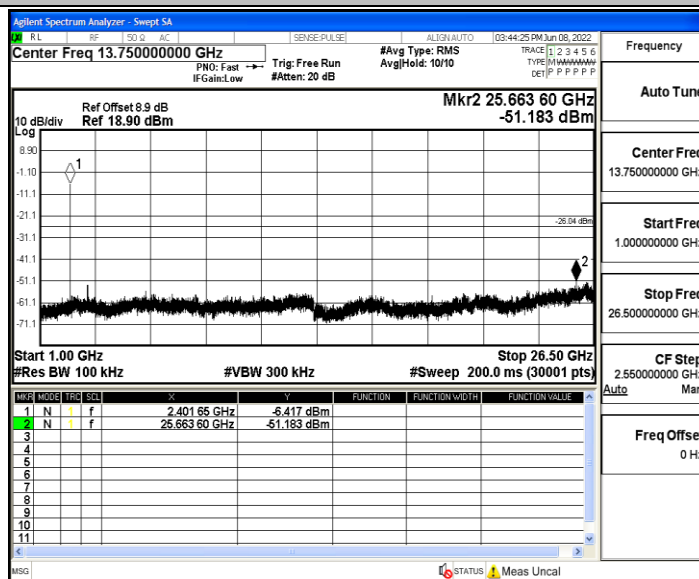
2DH5_Ant1_2480_30~1000



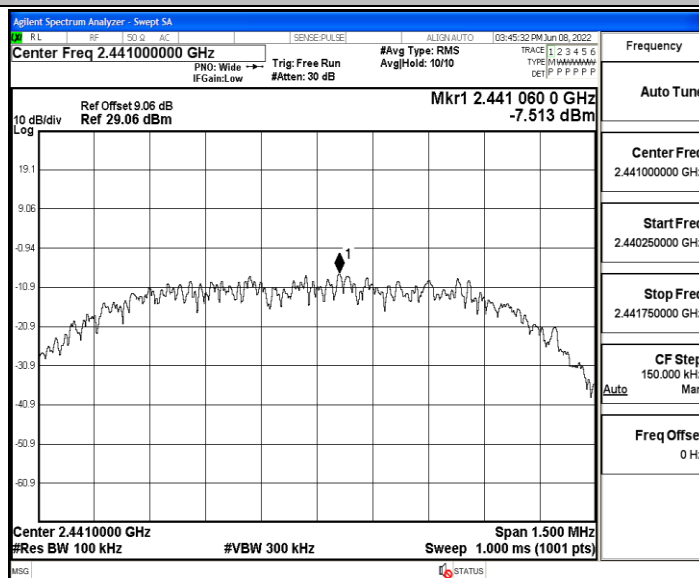
2DH5_Ant1_2480_1000~26500



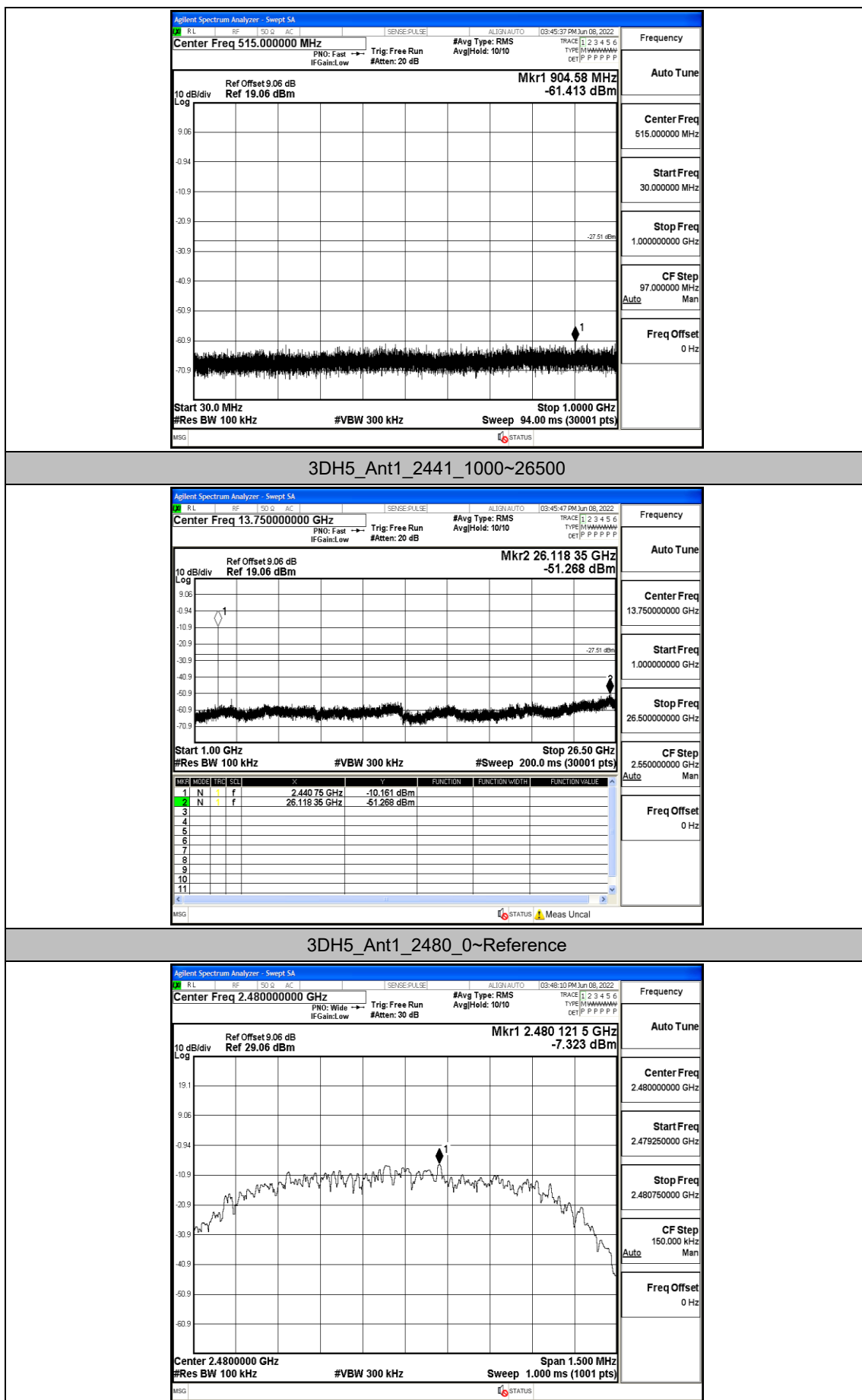
3DH5_Ant1_2402_1000~26500



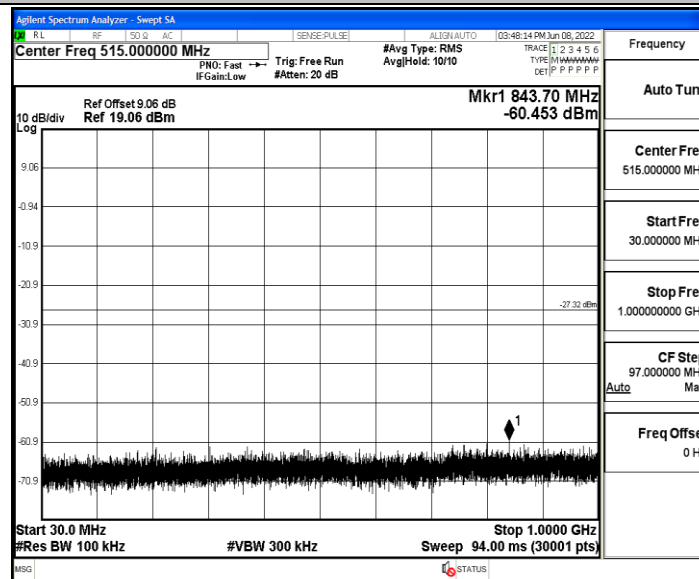
3DH5_Ant1_2441_0~Reference



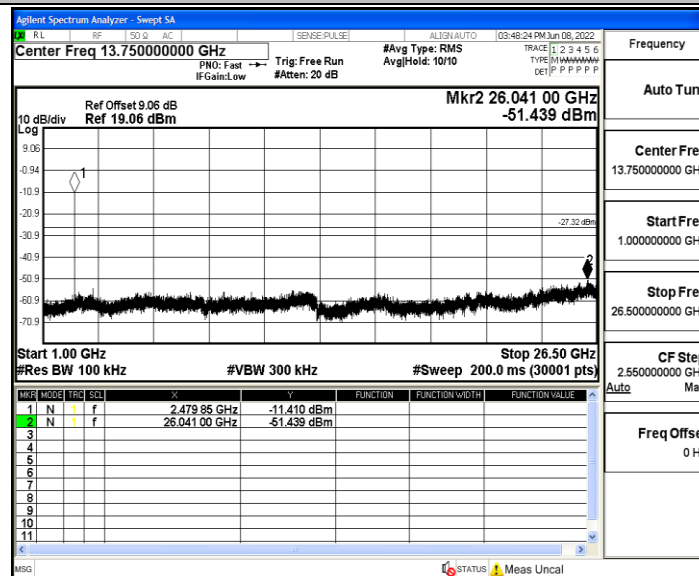
3DH5_Ant1_2441_30~1000



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500



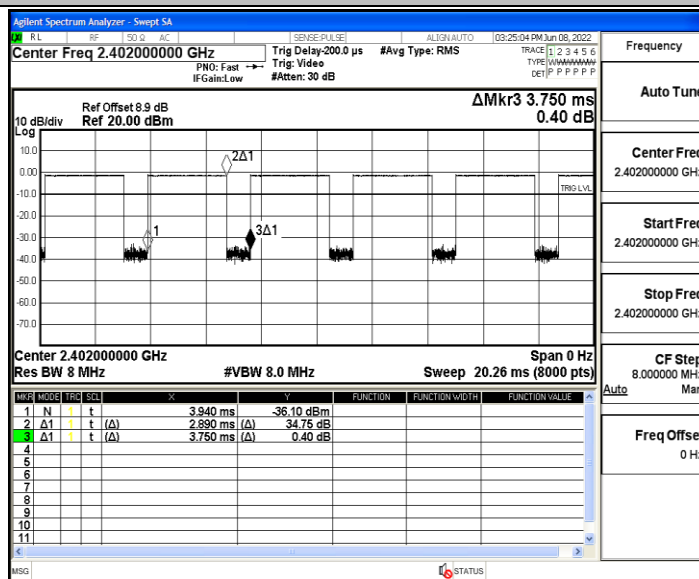
Appendix I: Duty Cycle

Test Result

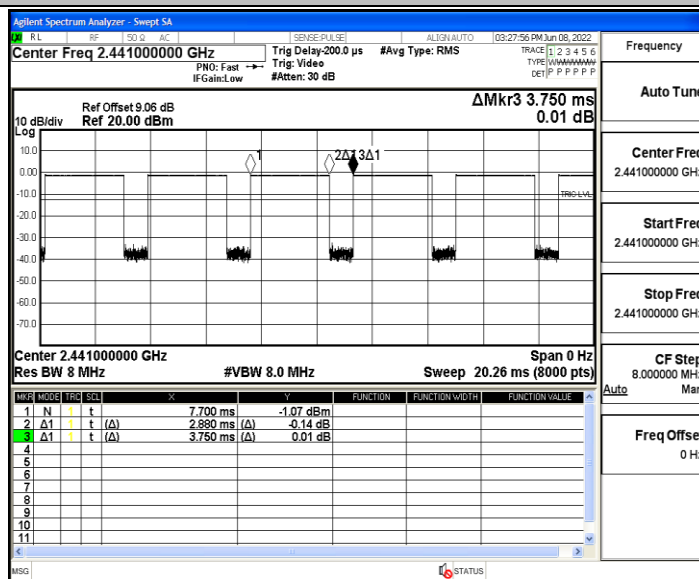
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
DH5	Ant1	2402	2.89	3.75	77.07	0.35
		2441	2.88	3.75	76.80	0.35
		2480	2.88	3.75	76.80	0.35
2DH5	Ant1	2402	2.89	3.75	77.07	0.35
		2441	2.89	3.75	77.07	0.35
		2480	2.89	3.75	77.07	0.35
3DH5	Ant1	2402	2.89	3.75	77.07	0.35
		2441	2.89	3.75	77.07	0.35
		2480	2.89	3.75	77.07	0.35

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480