

FCC Appendix RF Test Data for BT

FCC ID : 2BYH2-SG-1805A

Company : Shantou Chenghai Jichuang Toy Factory

EUT : Remote-controlled car

Model Number : SG-1805A

Report No. : CTA26091000102

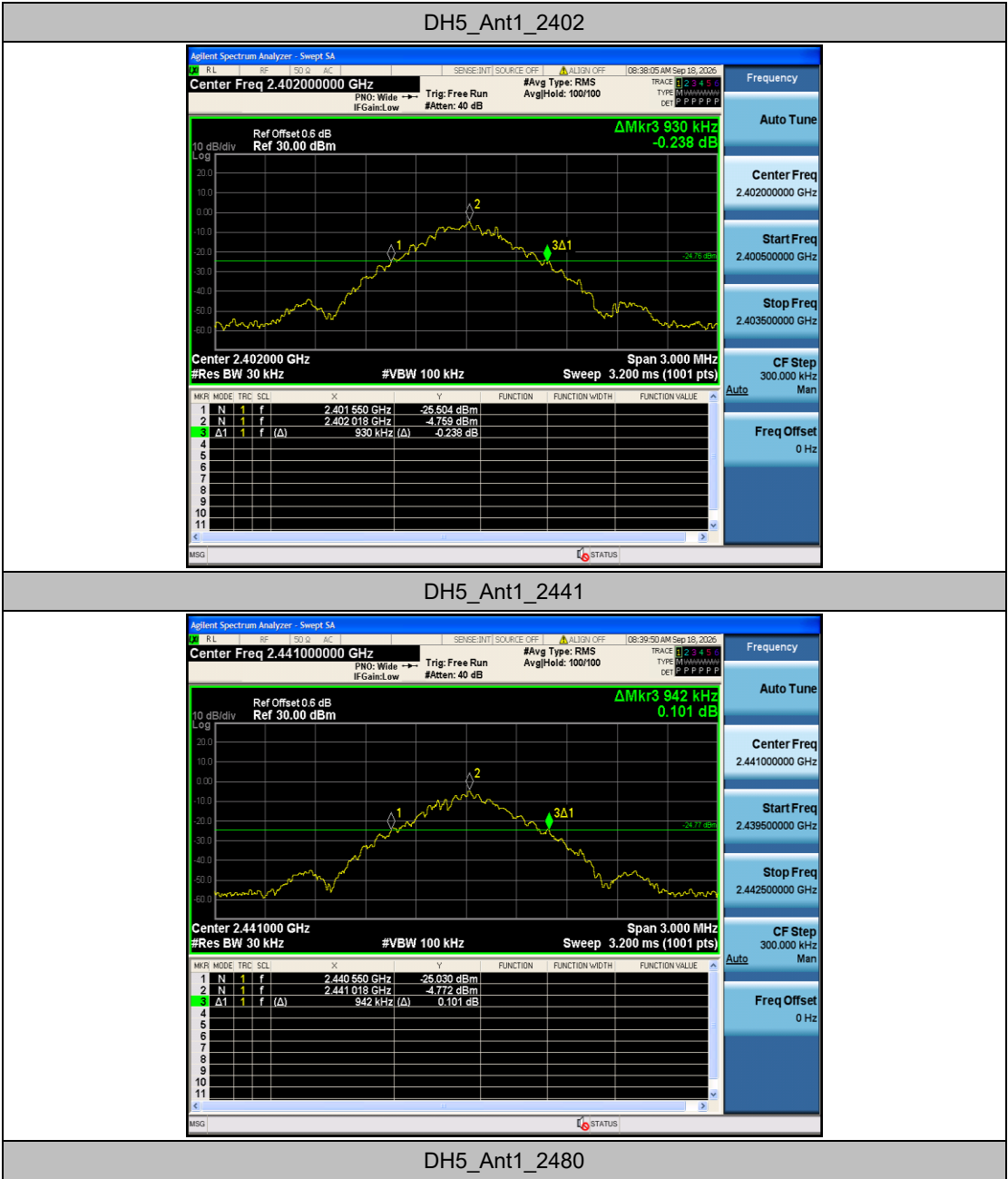
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.930	2401.550	2402.480	---	---
		2441	0.942	2440.550	2441.492	---	---
		2480	0.963	2479.544	2480.507	---	---
2DH5	Ant1	2402	1.329	2401.343	2402.672	---	---
		2441	1.284	2440.376	2441.660	---	---
		2480	1.287	2479.376	2480.663	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

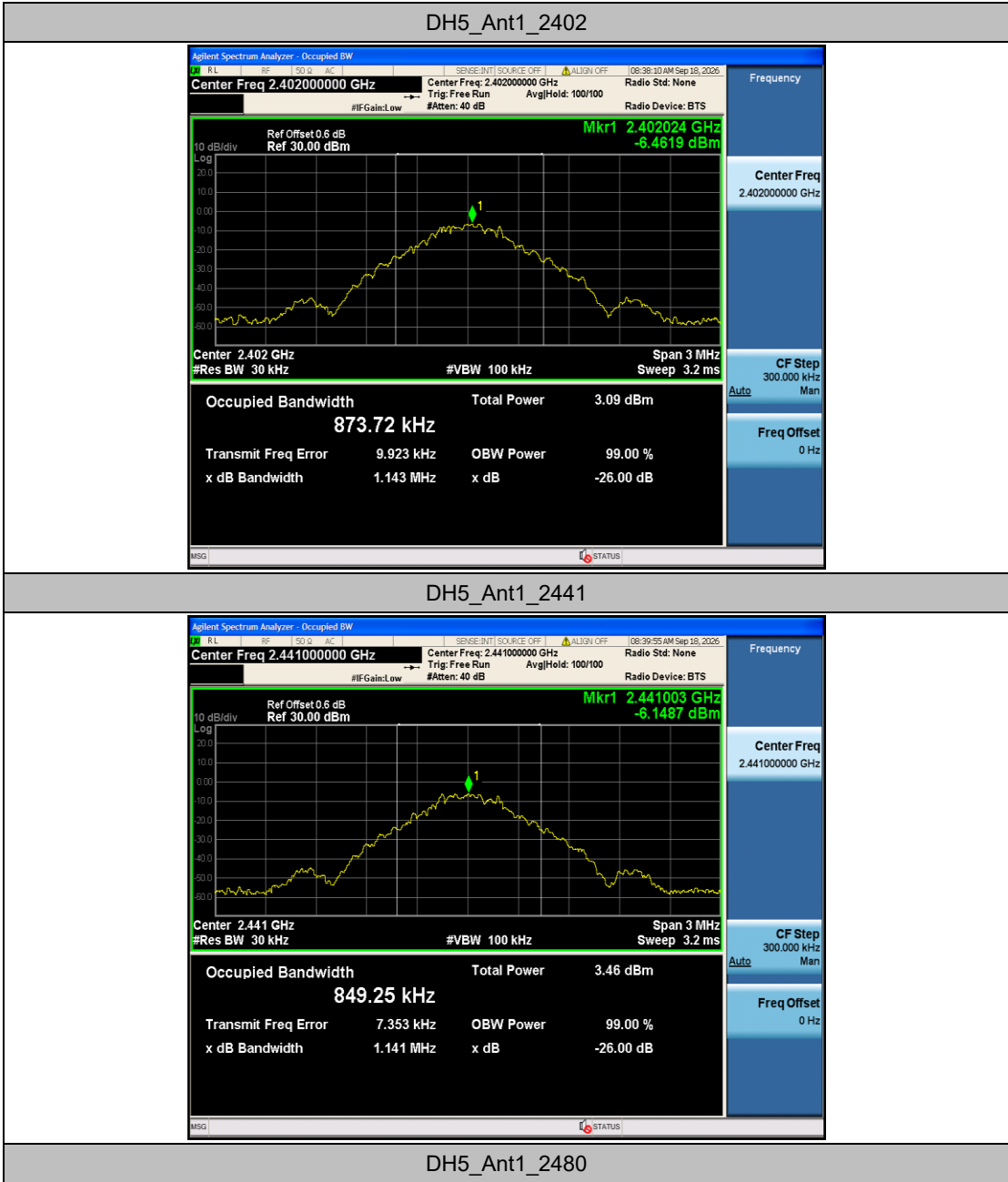


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87372	2401.5731	2402.4468	---	---
		2441	0.84925	2440.5827	2441.4320	---	---
		2480	0.87838	2479.5728	2480.4512	---	---
2DH5	Ant1	2402	1.1839	2401.4191	2402.6030	---	---
		2441	1.1865	2440.4154	2441.6019	---	---
		2480	1.1830	2479.4180	2480.6010	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result Peak

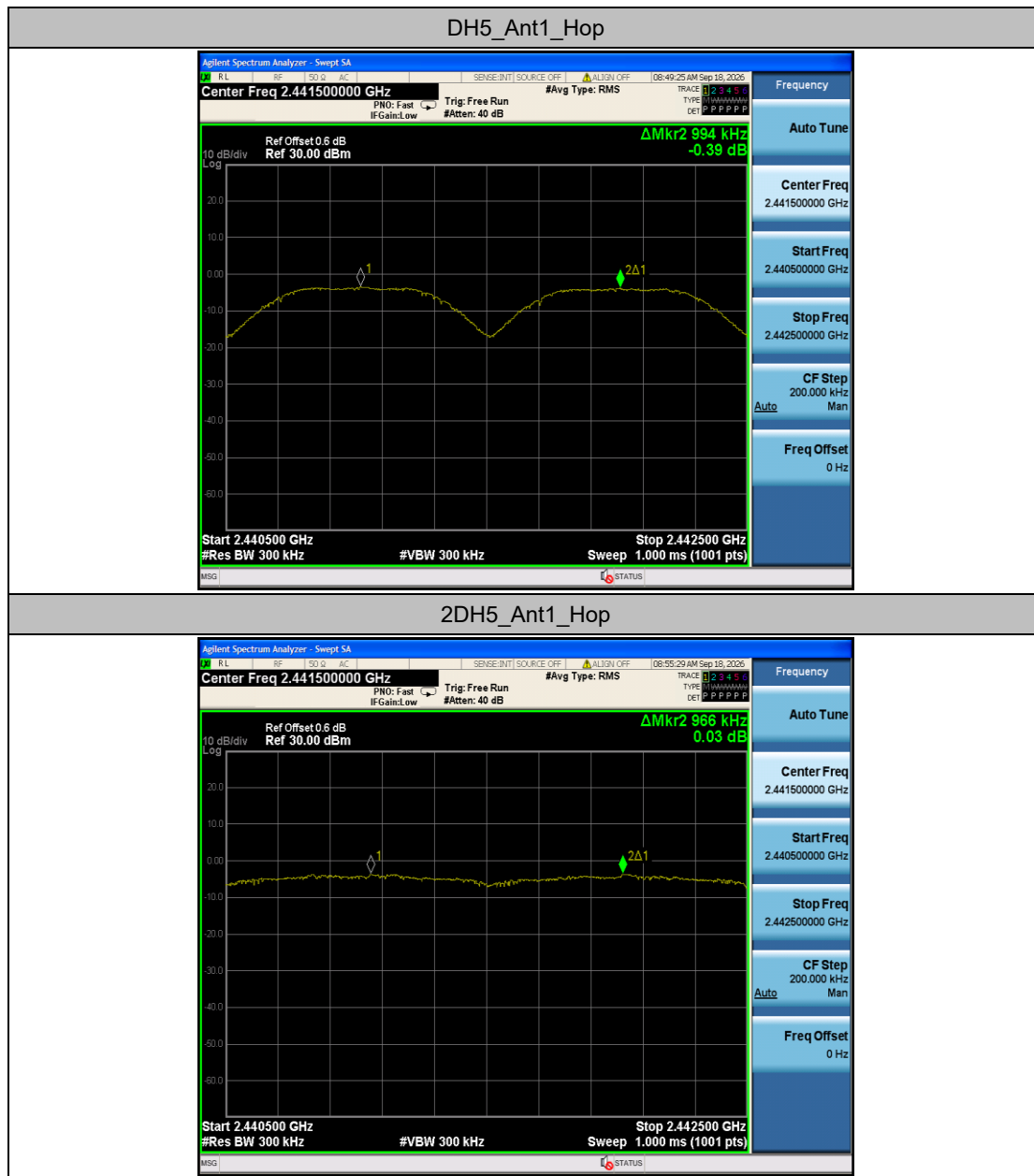
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-3.17	≤20.97	PASS
		2441	-3.22	≤20.97	PASS
		2480	-3.44	≤20.97	PASS
2DH5	Ant1	2402	-0.60	≤20.97	PASS
		2441	-0.55	≤20.97	PASS
		2480	-0.86	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.994	≥ 0.963	PASS
2DH5	Ant1	Hop	0.966	≥ 0.886	PASS

Test Graphs

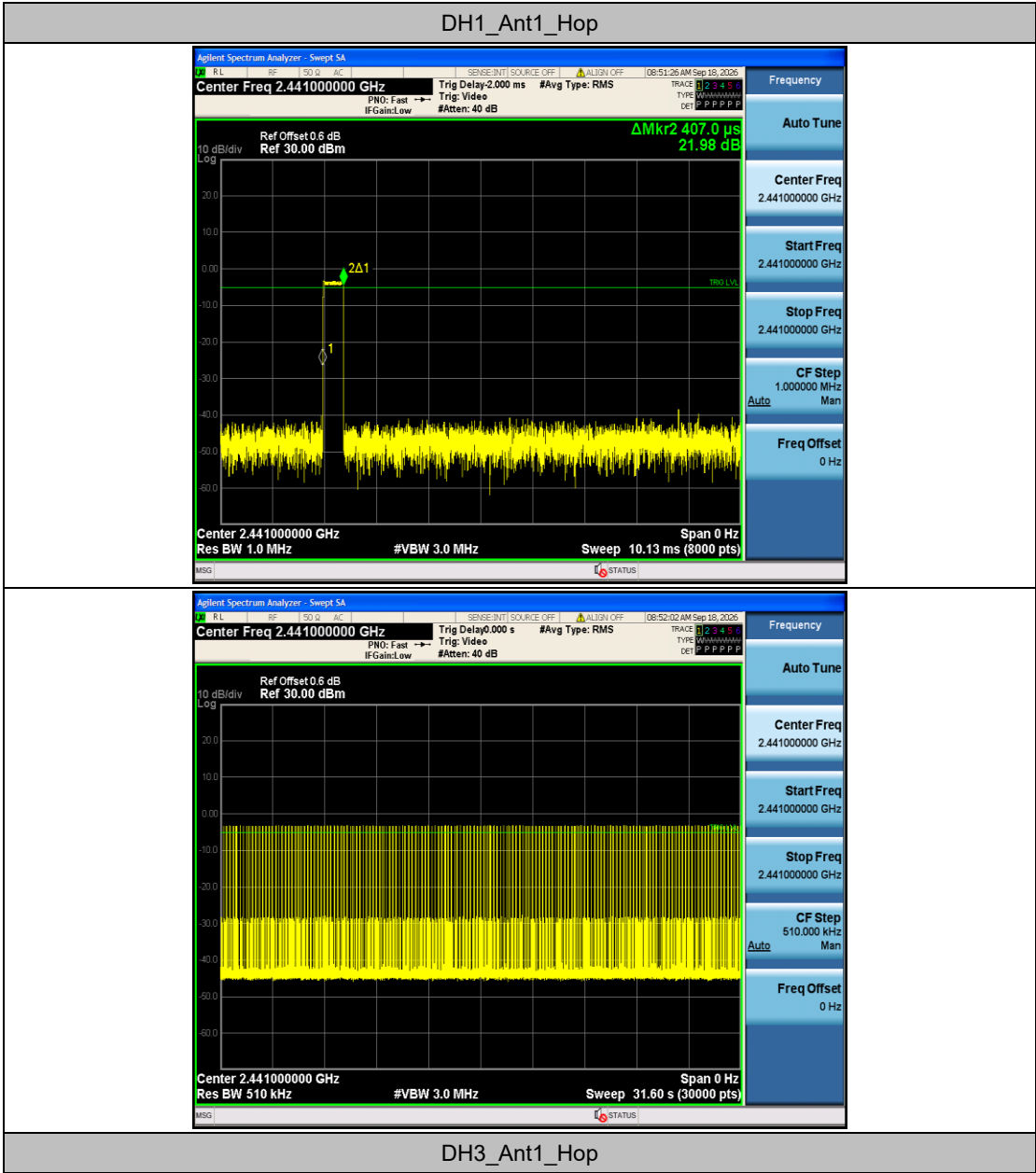


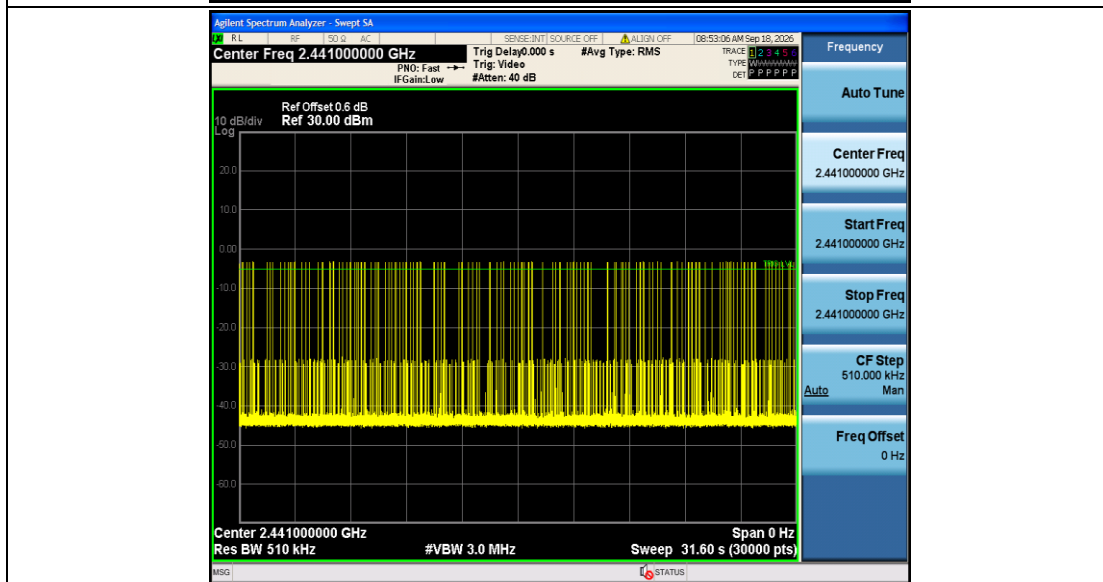
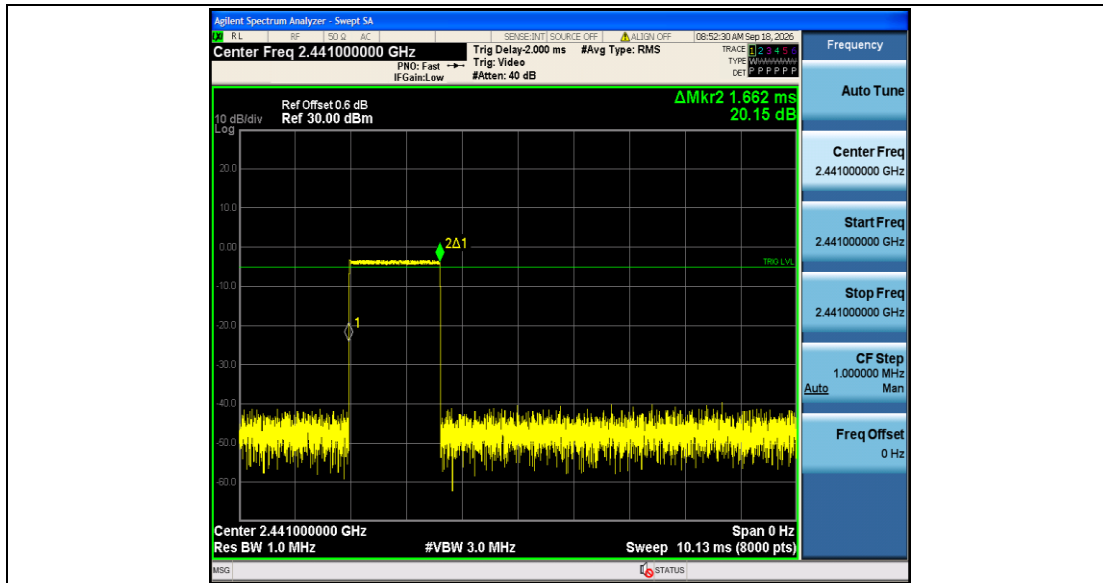
Appendix E: Time of occupancy

Test Result

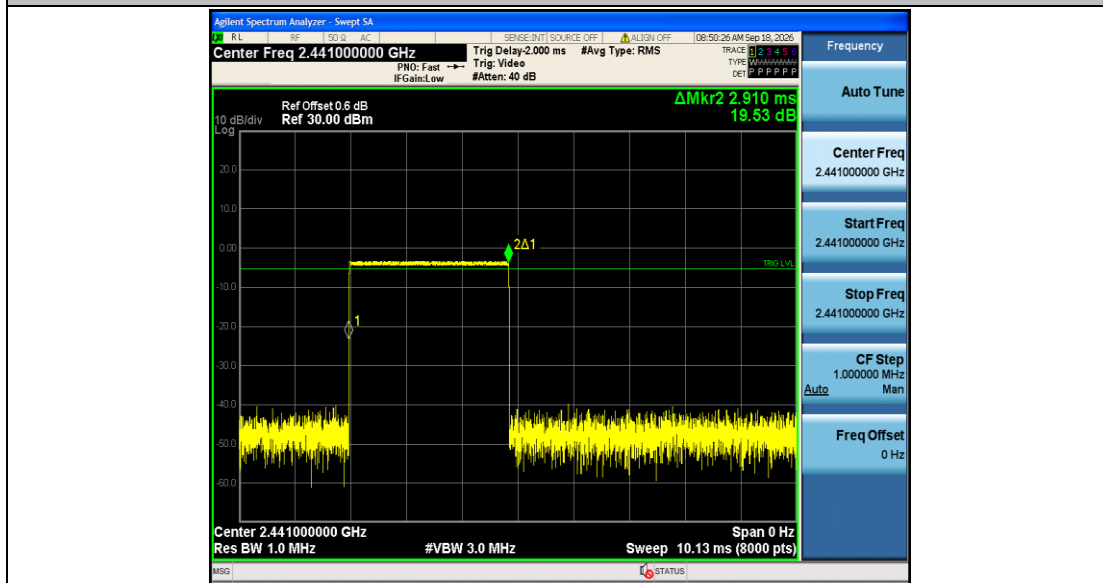
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.407	320	0.13	≤0.4	PASS
DH3	Ant1	Hop	1.662	155	0.258	≤0.4	PASS
DH5	Ant1	Hop	2.910	117	0.34	≤0.4	PASS
2DH1	Ant1	Hop	0.415	319	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.668	152	0.254	≤0.4	PASS
2DH5	Ant1	Hop	2.916	103	0.3	≤0.4	PASS

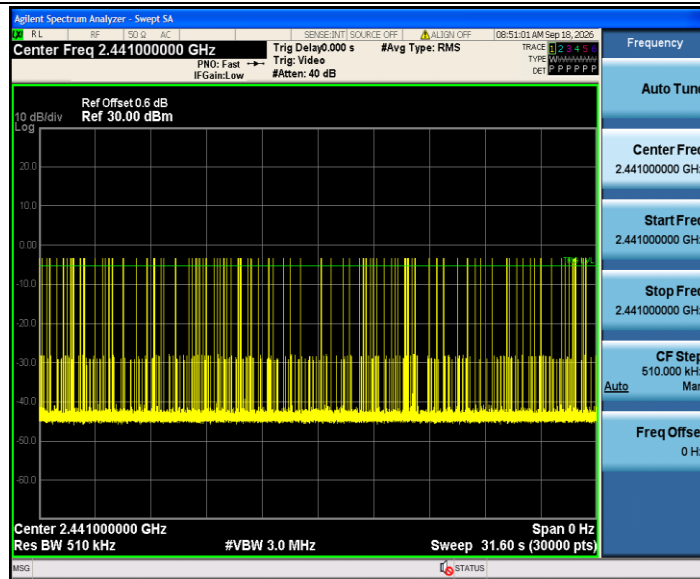
Test Graphs



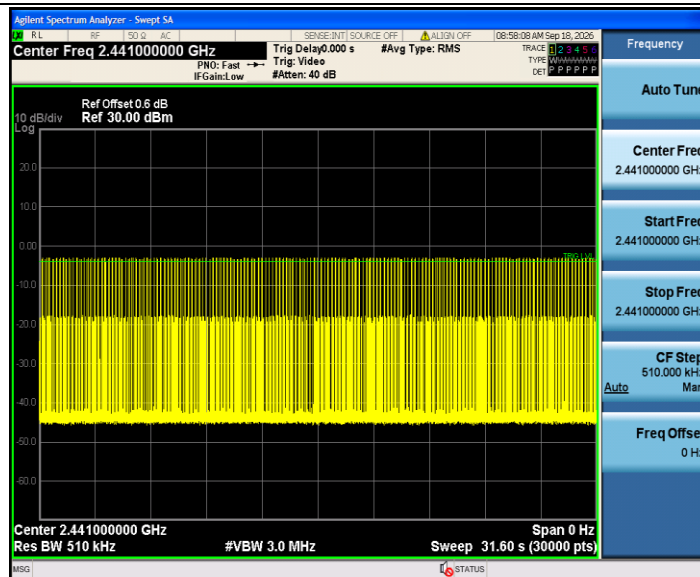
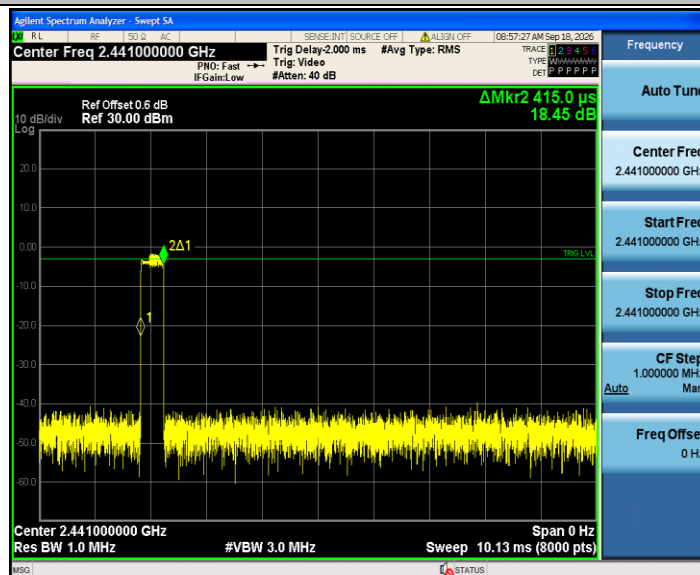


DH5_Ant1_Hop

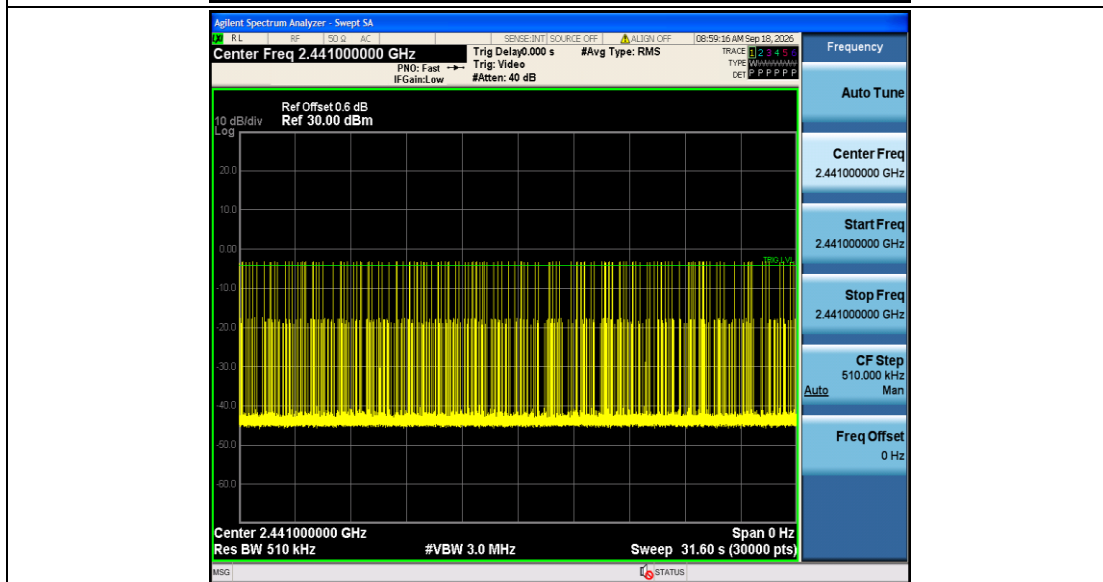
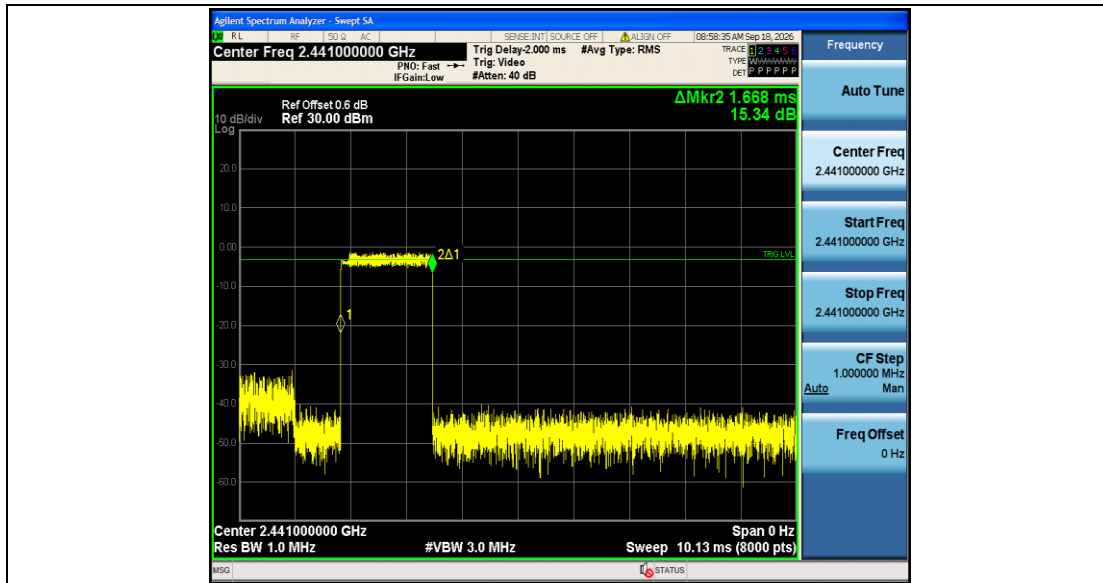




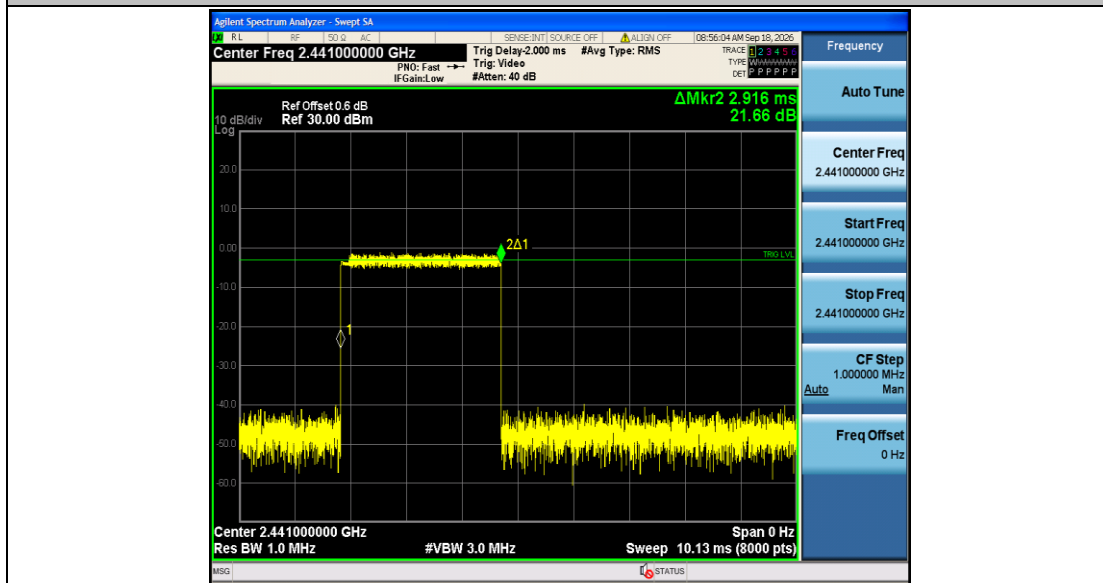
2DH1_Ant1_Hop

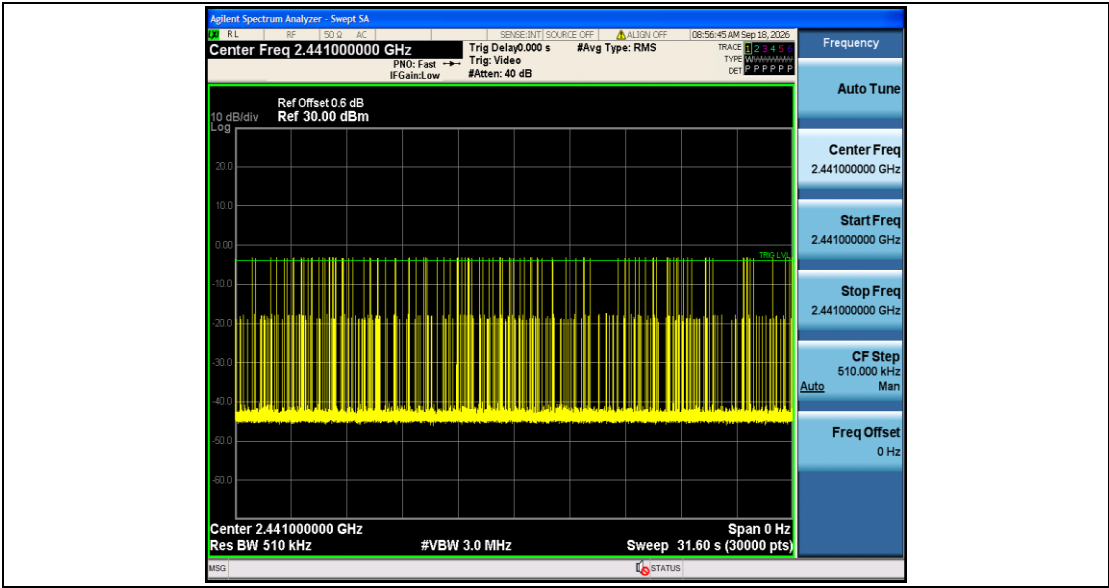


2DH3_Ant1_Hop



2DH5_Ant1_Hop





Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

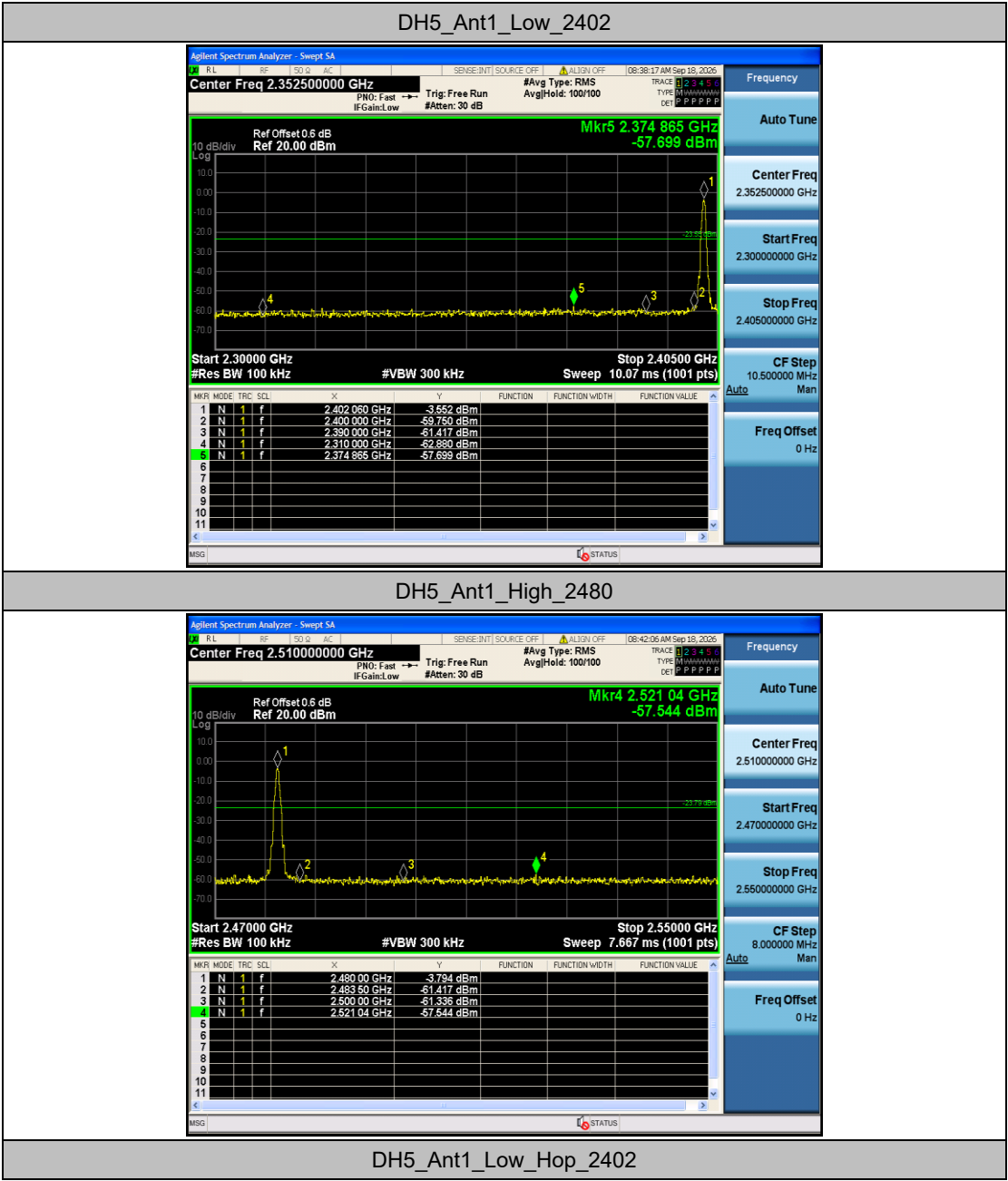


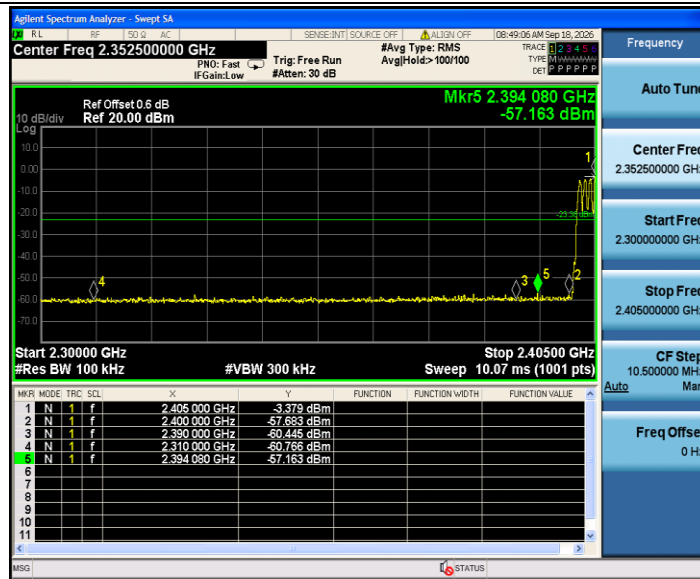
Appendix G: Band edge measurements

Test Result

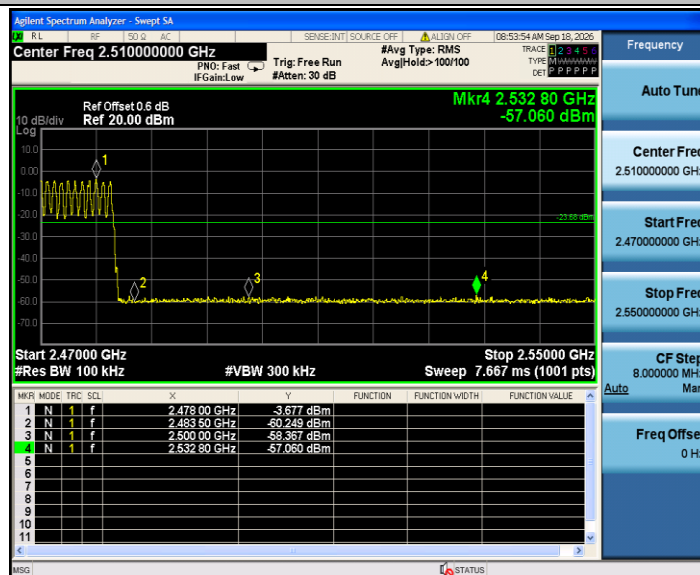
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.55	-57.7	≤-23.55	PASS
		High	2480	-3.79	-57.54	≤-23.79	PASS
		Low	Hop_2402	-3.38	-57.16	≤-23.38	PASS
		High	Hop_2480	-3.68	-57.06	≤-23.68	PASS
2DH5	Ant1	Low	2402	-4.03	-52.95	≤-24.03	PASS
		High	2480	-3.52	-57.71	≤-23.52	PASS
		Low	Hop_2402	-4.61	-53.93	≤-24.61	PASS
		High	Hop_2480	-4.52	-57.15	≤-24.52	PASS

Test Graphs

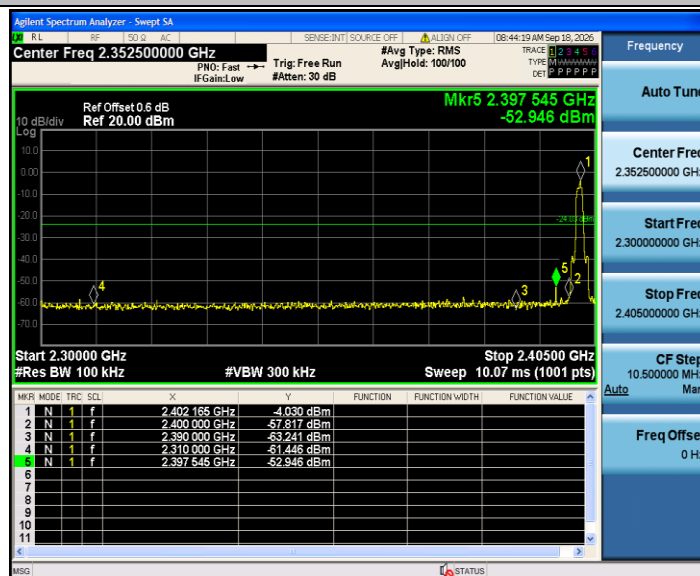




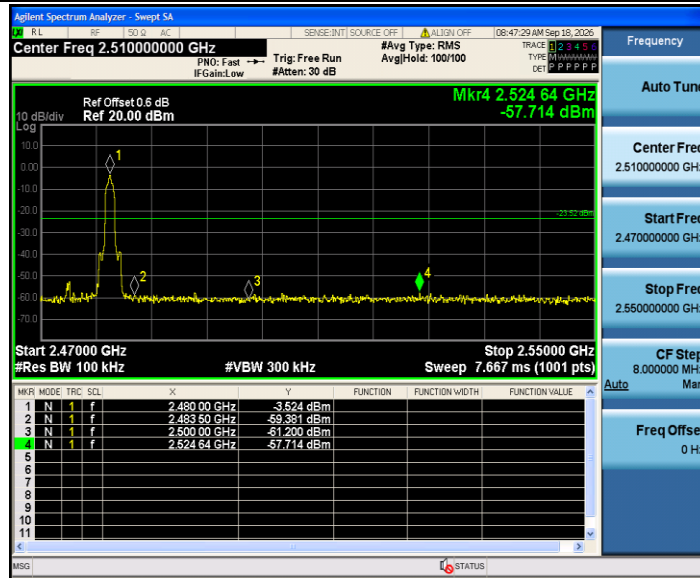
DH5_Ant1_High_Hop_2480



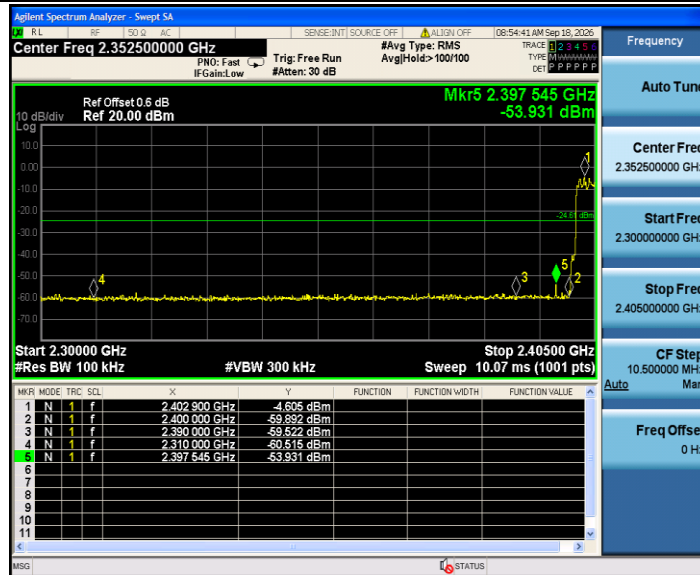
2DH5_Ant1_Low_2402



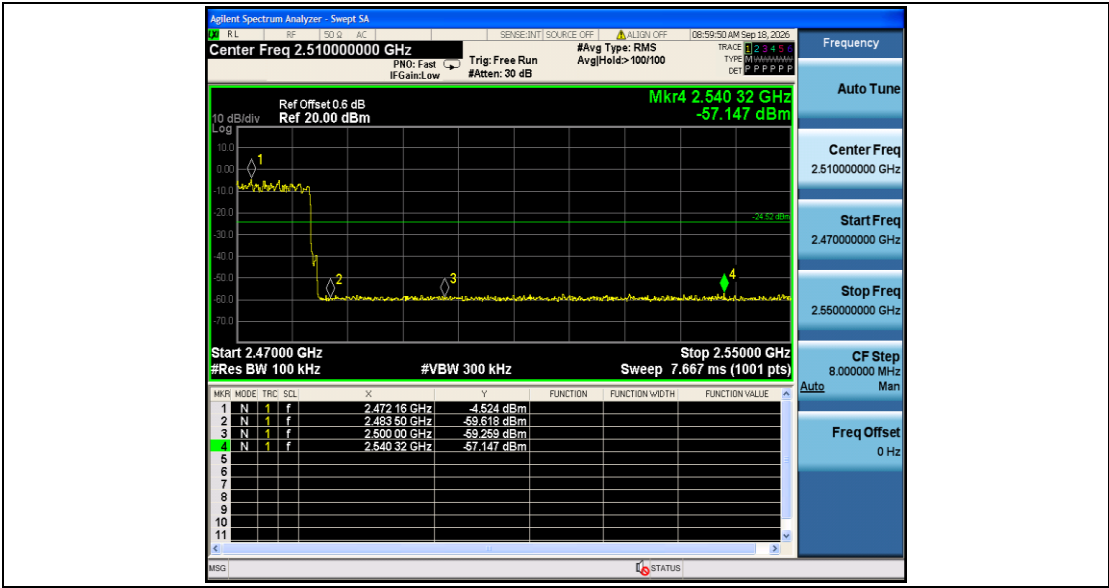
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480



Appendix H: Conducted Spurious Emission

Test Result

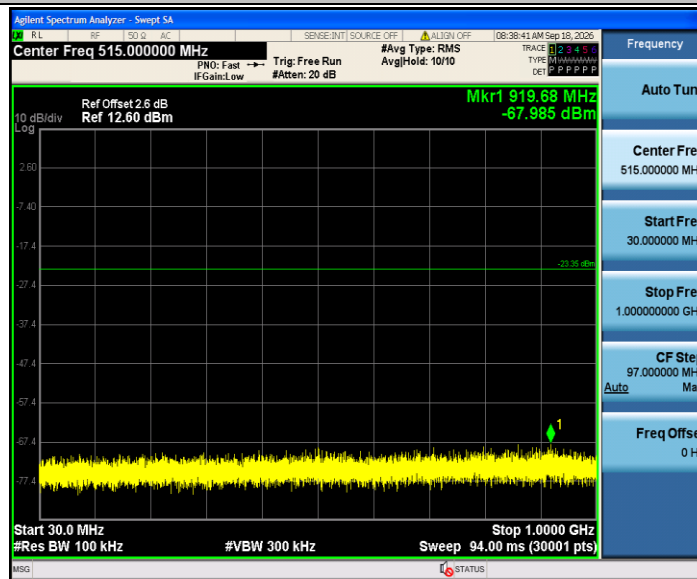
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-3.35	-3.35	---	PASS
			30~1000	-3.35	-67.99	≤-23.35	PASS
			1000~26500	-3.35	-45.8	≤-23.35	PASS
		2441	Reference	-3.82	-3.82	---	PASS
			30~1000	-3.82	-68.22	≤-23.82	PASS
			1000~26500	-3.82	-45.91	≤-23.82	PASS
		2480	Reference	-4.45	-4.45	---	PASS
			30~1000	-4.45	-67.3	≤-24.45	PASS
			1000~26500	-4.45	-46.25	≤-24.45	PASS
2DH5	Ant1	2402	Reference	-3.34	-3.34	---	PASS
			30~1000	-3.34	-67.51	≤-23.34	PASS
			1000~26500	-3.34	-46.74	≤-23.34	PASS
		2441	Reference	-4.77	-4.77	---	PASS
			30~1000	-4.77	-68.19	≤-24.77	PASS
			1000~26500	-4.77	-45.07	≤-24.77	PASS
		2480	Reference	-5.01	-5.01	---	PASS
			30~1000	-5.01	-66.86	≤-25.01	PASS
			1000~26500	-5.01	-45.99	≤-25.01	PASS

Test Graphs

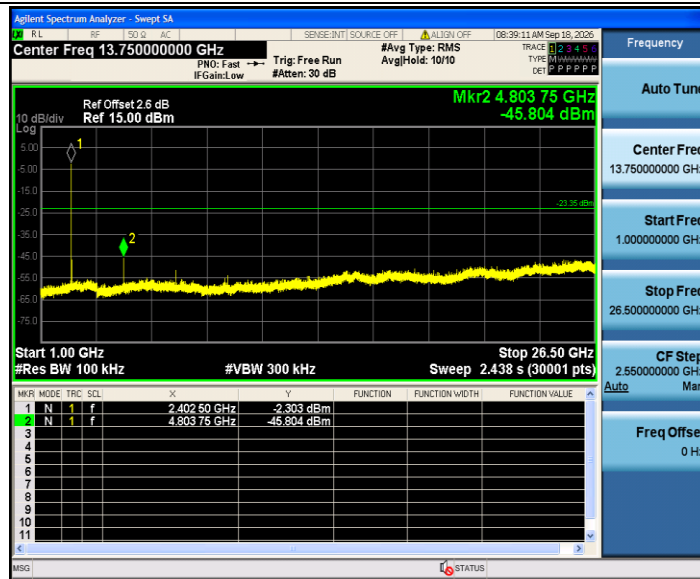
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



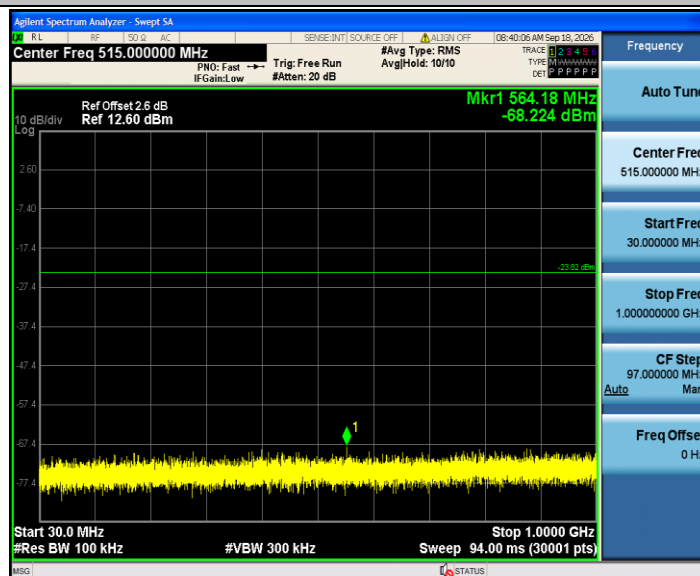
DH5_Ant1_2402_1000~26500



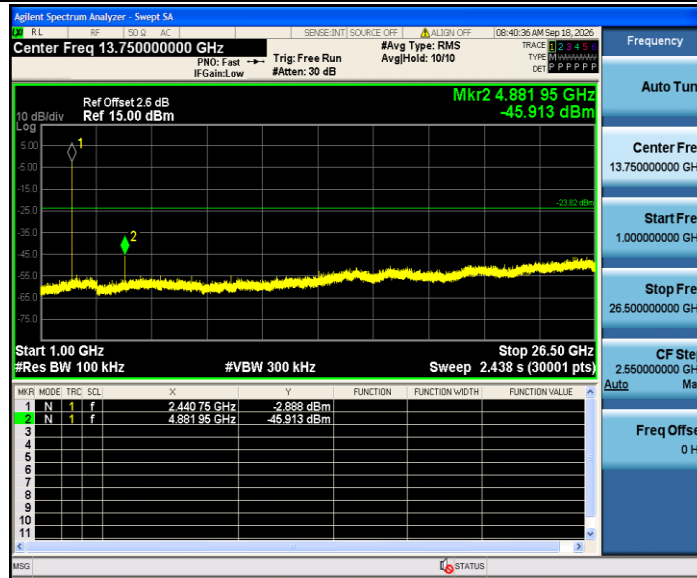
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



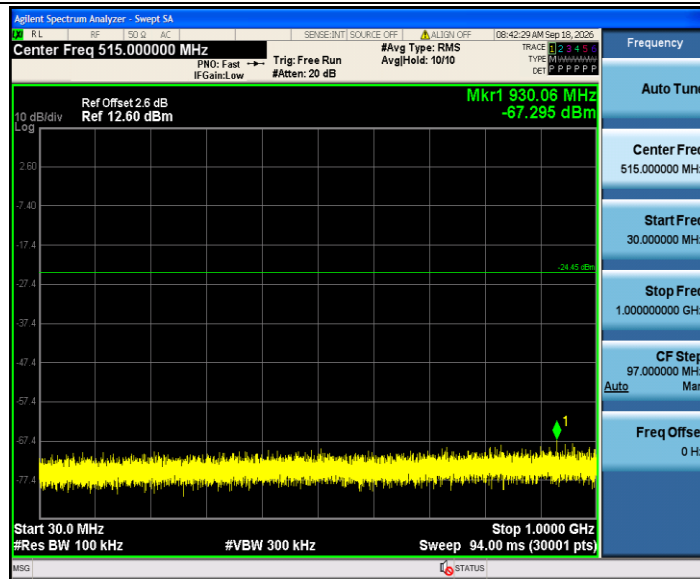
DH5_Ant1_2441_1000~26500



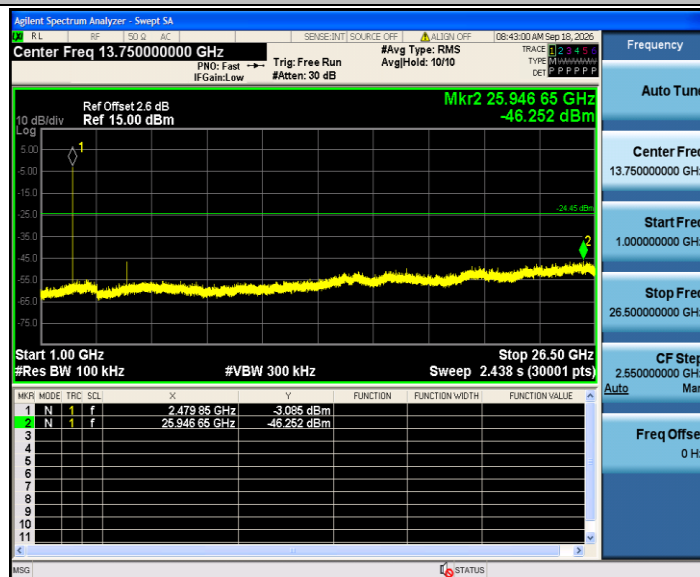
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



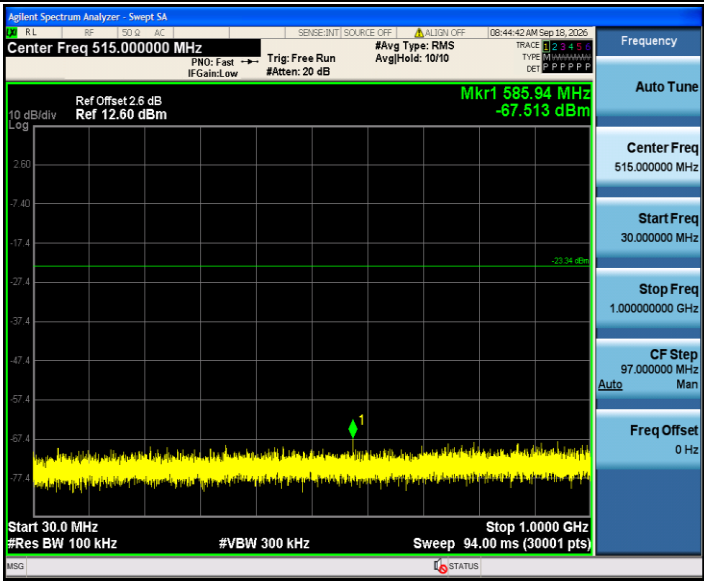
DH5_Ant1_2480_1000~26500



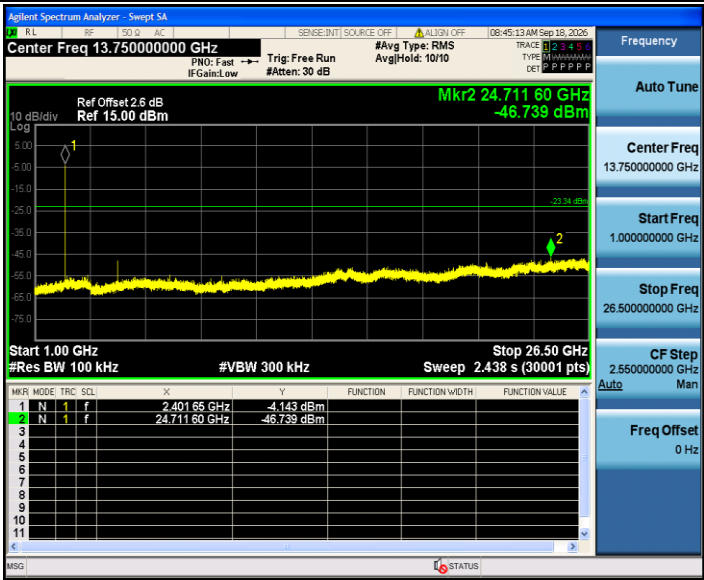
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



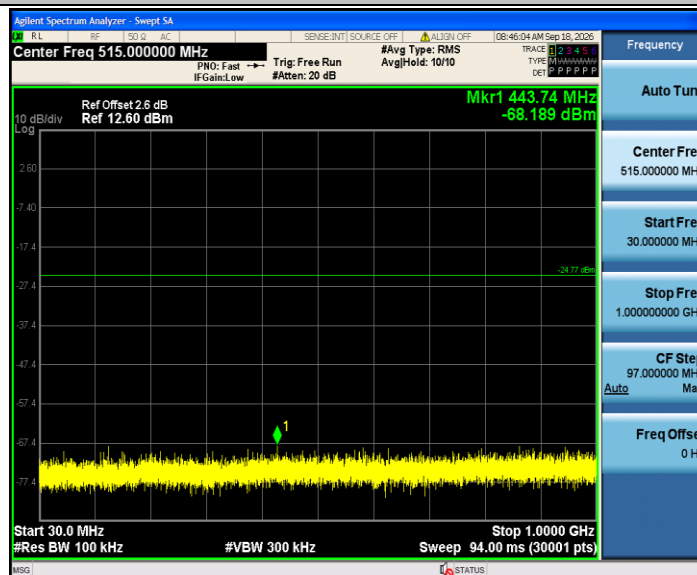
2DH5_Ant1_2402_1000~26500



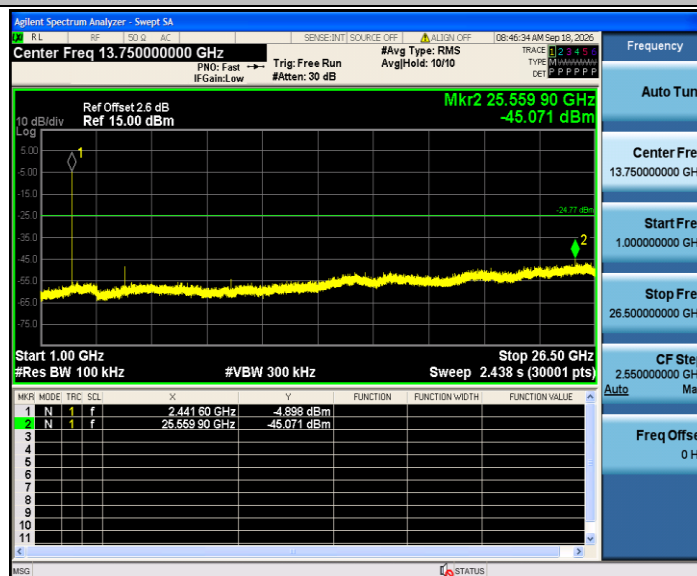
2DH5_Ant1_2441_0~Reference



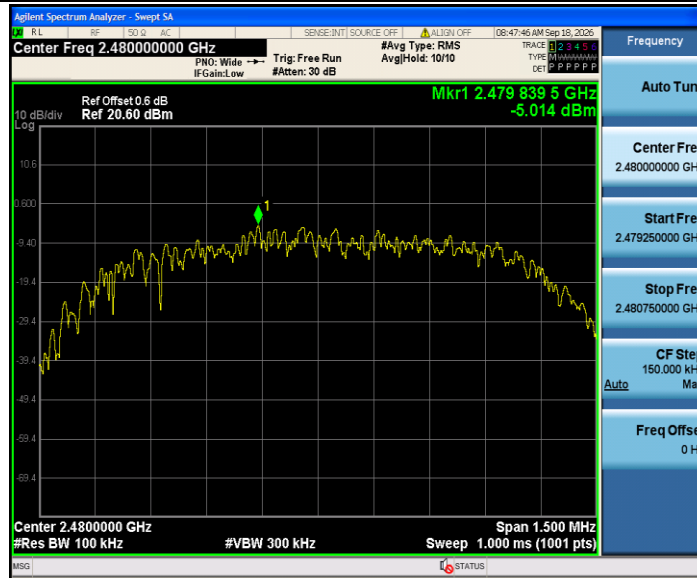
2DH5_Ant1_2441_30~1000



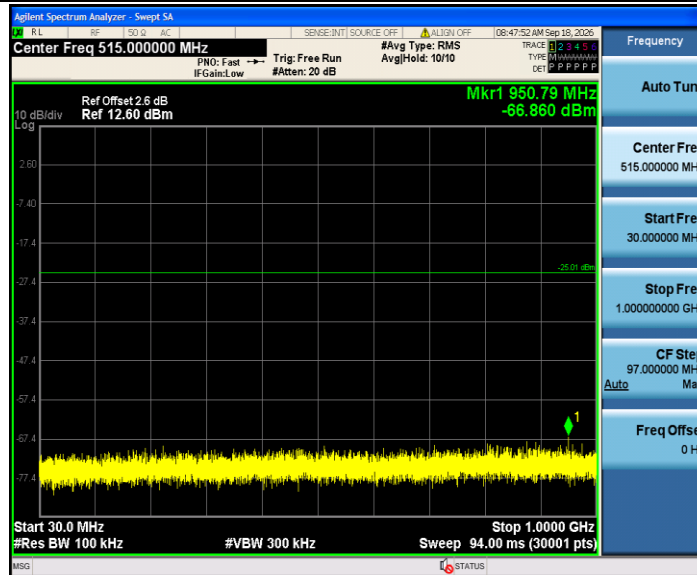
2DH5_Ant1_2441_1000~26500



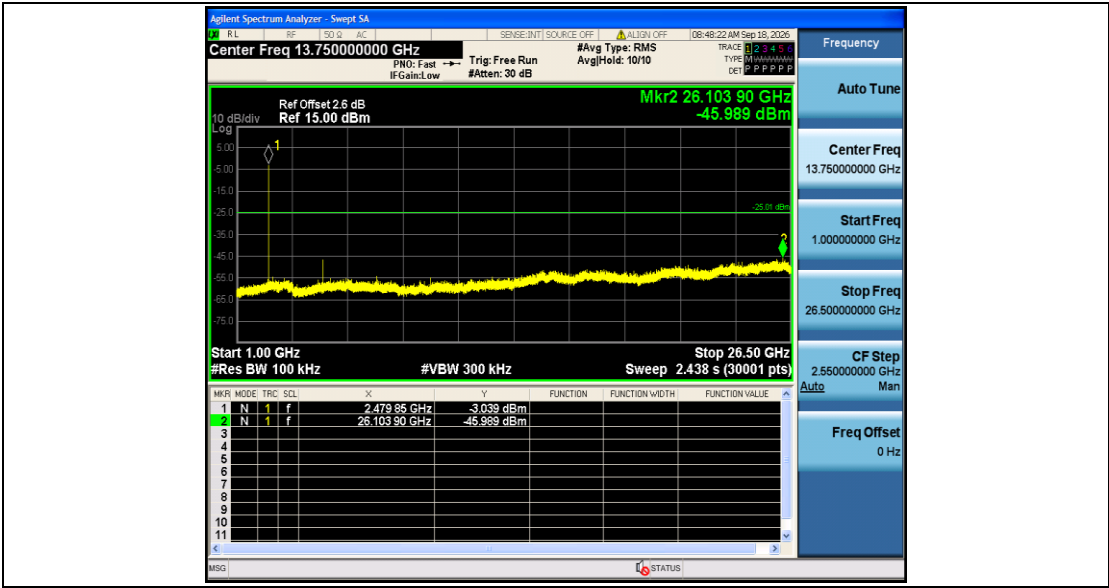
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500



Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.91	3.75	77.60	1.10	---	---
2DH5	Ant1	2402	2.92	3.75	77.87	1.09	---	---
		2441	2.92	3.75	77.87	1.09	---	---
		2480	2.91	3.75	77.60	1.10	---	---