

Appendix II EDR+BR Test Data**Applicant:** Guangzhou Little Sea Monster Technology Co., Ltd**Report No:** DLE-250807033R**EUT:** Magnetofluid Speaker**M/N:** XHG-AM400**Standard:**FCC Part15 Subpart C, Section 15.247**Test Power Supply:** DC 7.4V**Ambient Condition:** 24.7 °C, 52 %RH, 101.325 kPa**Test Date:** 2025.07.29**Test Engineer:** Ken Tan*Ken Tan*

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]
DH5	Ant1	2402	0.981	---	---
		2441	0.996	---	---
		2480	1.044	---	---
2DH5	Ant1	2402	1.296	---	---
		2441	1.251	---	---
		2480	1.350	---	---
3DH5	Ant1	2402	1.275	---	---
		2441	1.293	---	---
		2480	1.290	---	---

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]
DH5	Ant1	2402	0.96962	2401.4874	2402.4570
		2441	0.82957	2440.5772	2441.4068
		2480	0.95014	2479.5251	2480.4752
2DH5	Ant1	2402	1.1556	2401.4082	2402.5638
		2441	1.1957	2440.3848	2441.5805
		2480	1.1807	2479.3994	2480.5801
3DH5	Ant1	2402	1.1967	2401.3814	2402.5781
		2441	1.2161	2440.3901	2441.6062
		2480	1.2073	2479.4031	2480.6104

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 Peak

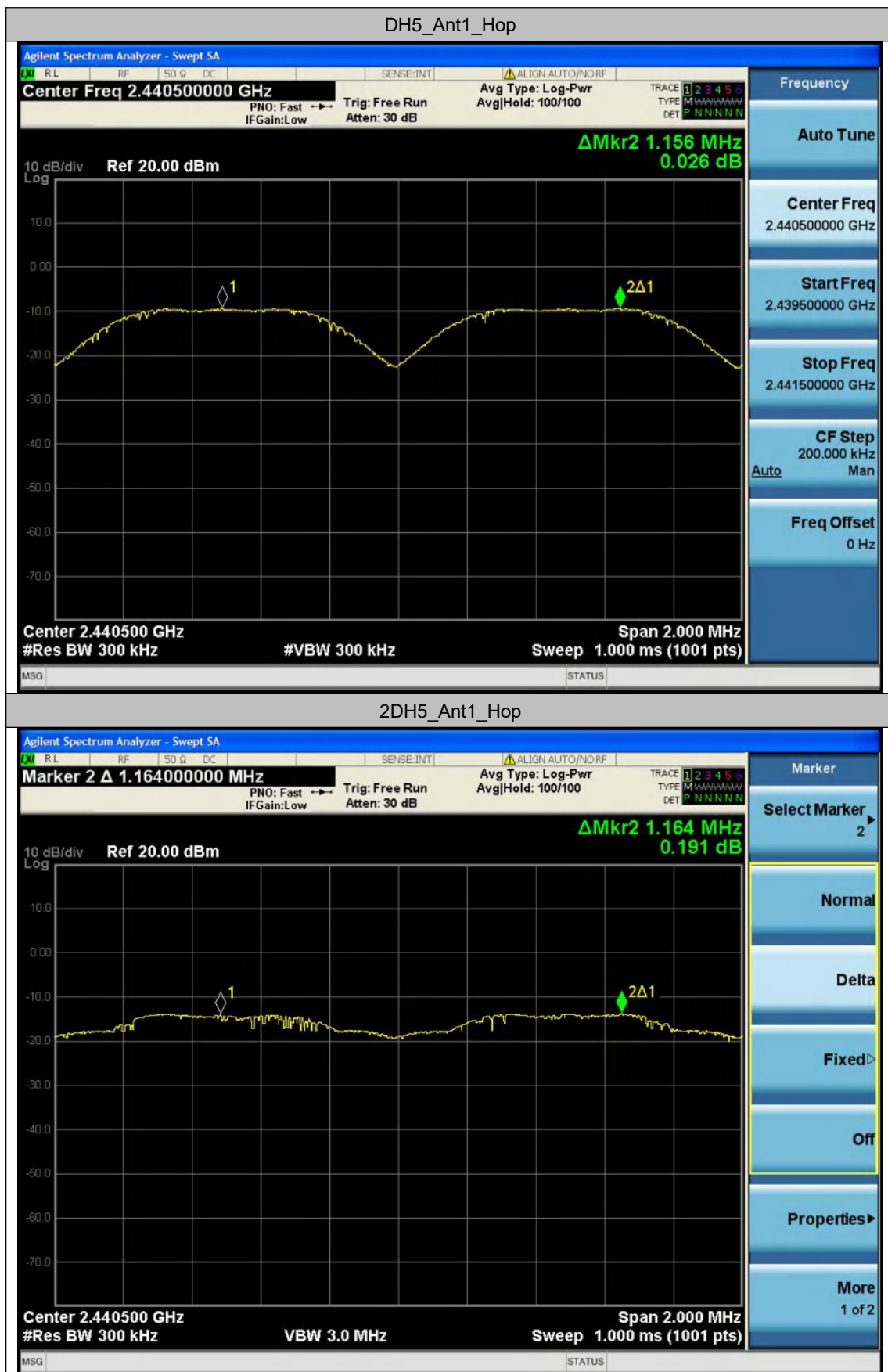
Test Mode	Antenna	Channel	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	2.84	≤20.97	PASS
		2441	3.14	≤20.97	PASS
		2480	3.65	≤20.97	PASS
2DH5	Ant1	2402	2.90	≤20.97	PASS
		2441	3.18	≤20.97	PASS
		2480	3.73	≤20.97	PASS
3DH5	Ant1	2402	3.02	≤20.97	PASS
		2441	3.33	≤20.97	PASS
		2480	3.84	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	Hop	1.156	≥0.646	PASS
2DH5	Ant1	Hop	1.164	≥0.900	PASS
3DH5	Ant1	Hop	1.302	≥0.862	PASS

Test Graphs





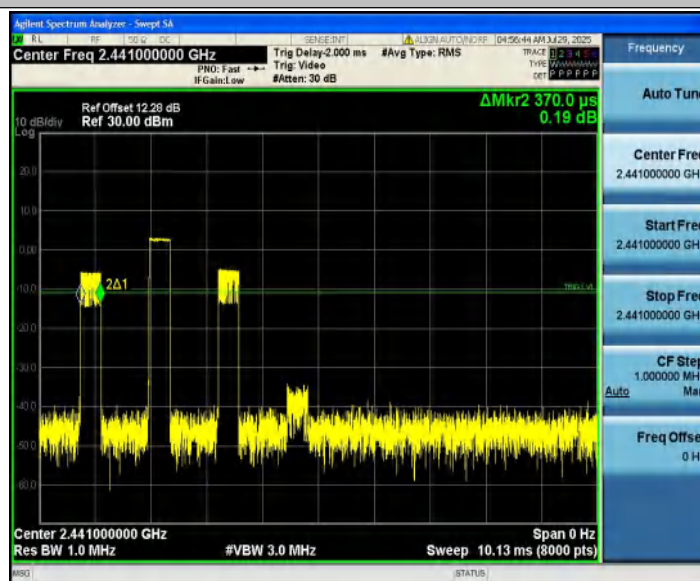
Appendix E: Time of occupancy

Test Result

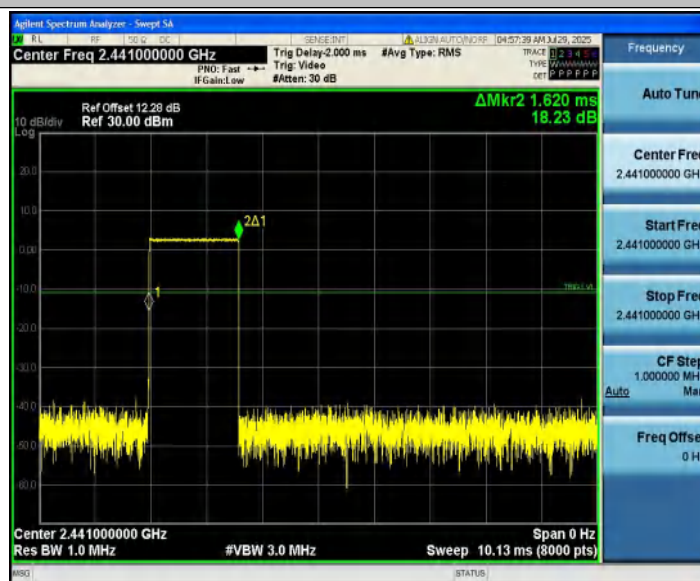
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.370	320	0.118	≤0.4	PASS
DH3	Ant1	Hop	1.620	160	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.868	106.67	0.306	≤0.4	PASS
2DH1	Ant1	Hop	0.377	320	0.121	≤0.4	PASS
2DH3	Ant1	Hop	1.631	160	0.261	≤0.4	PASS
2DH5	Ant1	Hop	2.879	106.67	0.307	≤0.4	PASS
3DH1	Ant1	Hop	0.379	320	0.121	≤0.4	PASS
3DH3	Ant1	Hop	1.629	160	0.261	≤0.4	PASS
3DH5	Ant1	Hop	2.880	106.67	0.307	≤0.4	PASS

Test Graphs

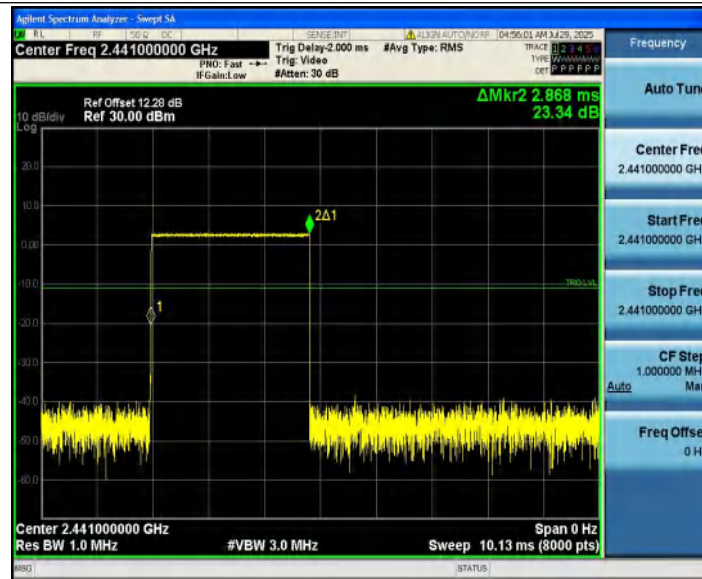
DH1_Ant1_Hop



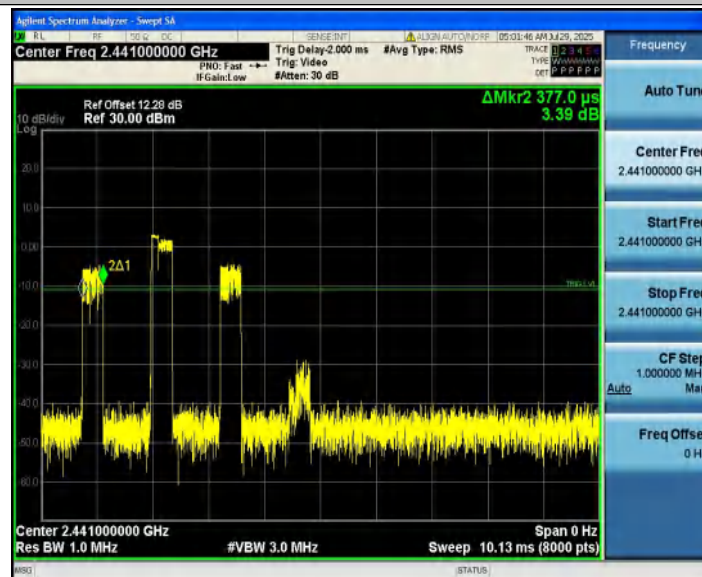
DH3_Ant1_Hop



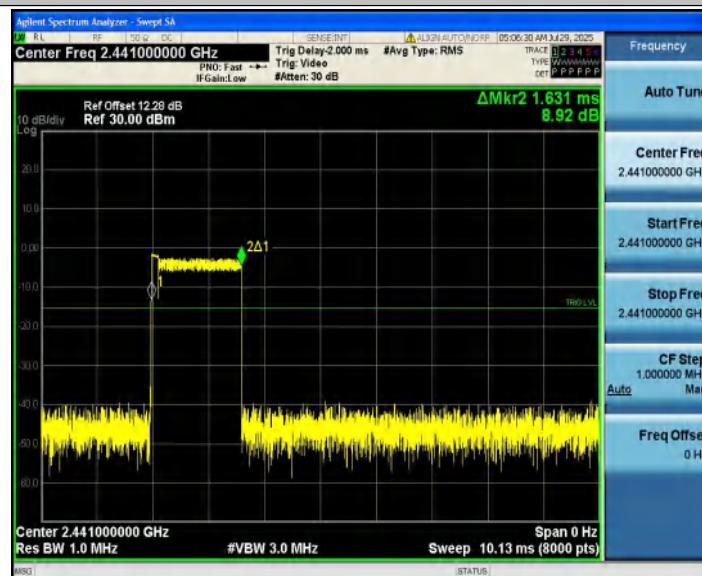
DH5_Ant1_Hop



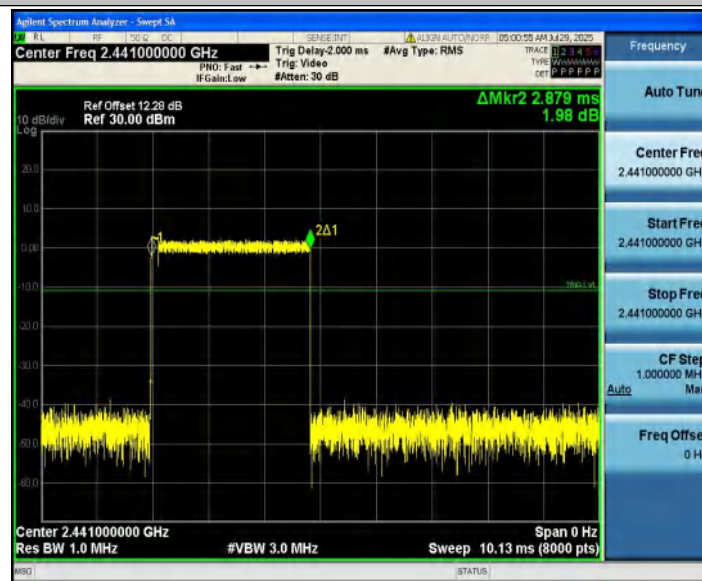
2DH1_Ant1_Hop



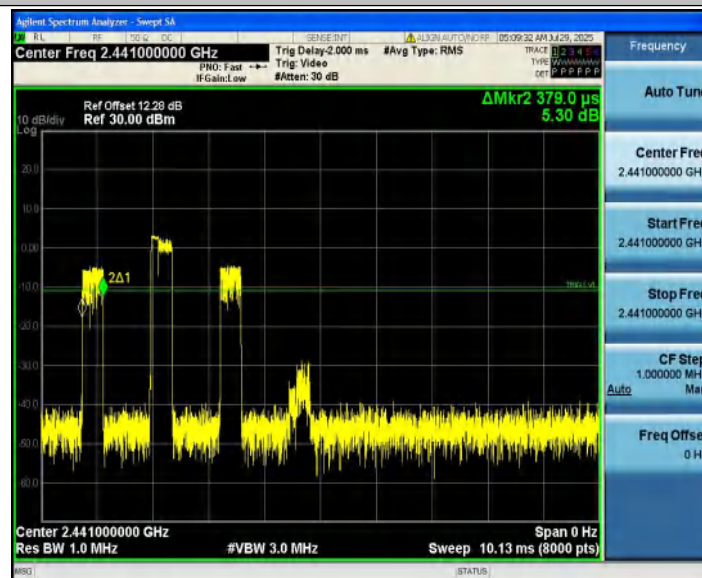
2DH3_Ant1_Hop



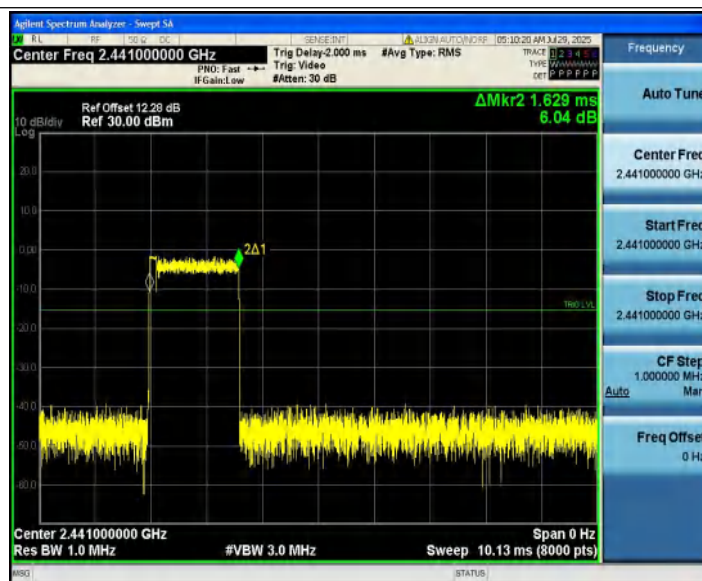
2DH5_Ant1_Hop



3DH1_Ant1_Hop



3DH3_Ant1_Hop



3DH5_Ant1_Hop



Appendix F: Number of hopping channels

Test Result

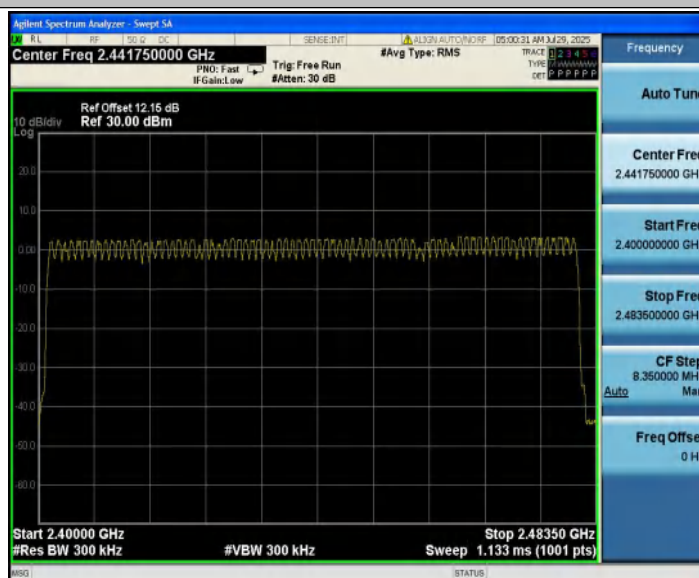
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

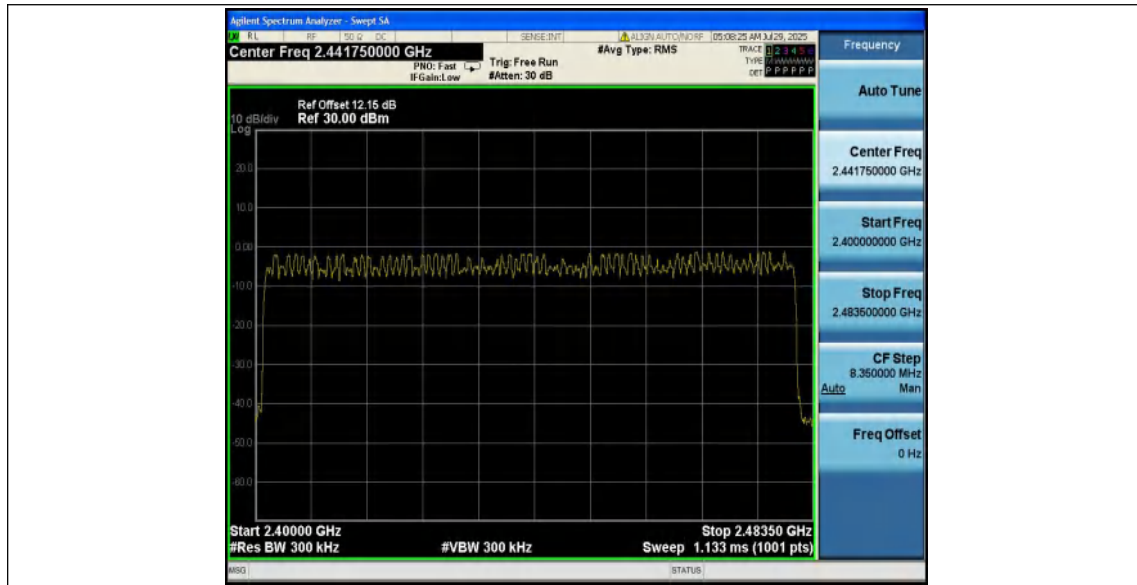
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



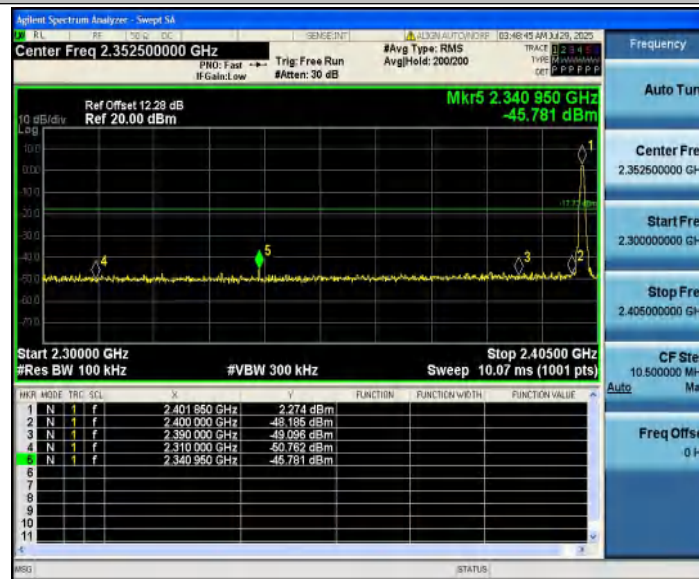
Appendix G: Band edge measurements

Test Result

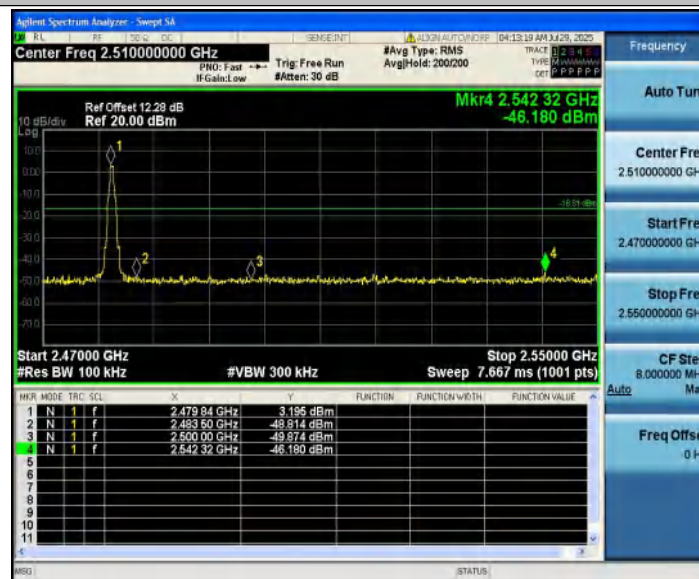
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.27	-45.78	≤ -17.73	PASS
		High	2480	3.20	-46.18	≤ -16.81	PASS
		Low	Hop_2402	1.24	-46.1	≤ -18.76	PASS
		High	Hop_2480	-2.01	-46.94	≤ -22.01	PASS
2DH5	Ant1	Low	2402	1.95	-47.11	≤ -18.05	PASS
		High	2480	3.22	-45.9	≤ -16.78	PASS
		Low	Hop_2402	-2.97	-46.81	≤ -22.97	PASS
		High	Hop_2480	1.93	-46.6	≤ -18.07	PASS
3DH5	Ant1	Low	2402	-1.89	-46.14	≤ -21.89	PASS
		High	2480	3.18	-47	≤ -16.82	PASS
		Low	Hop_2402	-8.08	-47.02	≤ -28.08	PASS
		High	Hop_2480	-3.32	-47.23	≤ -23.32	PASS

Test Graphs

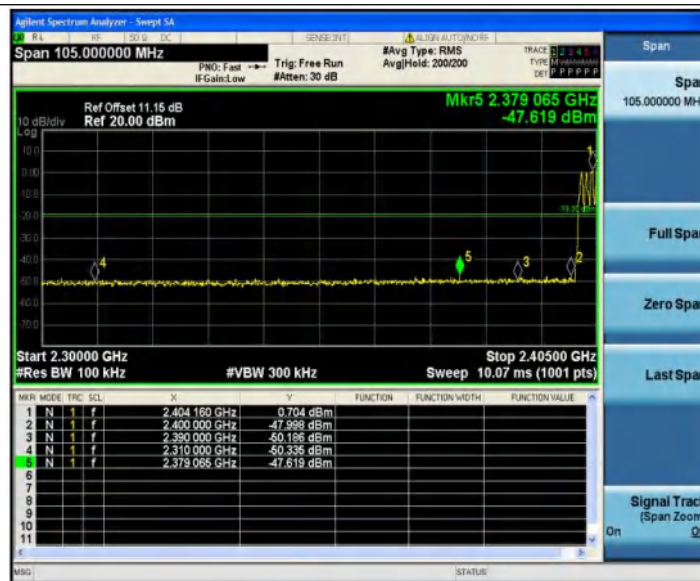
DH5_Ant1_Low_2402



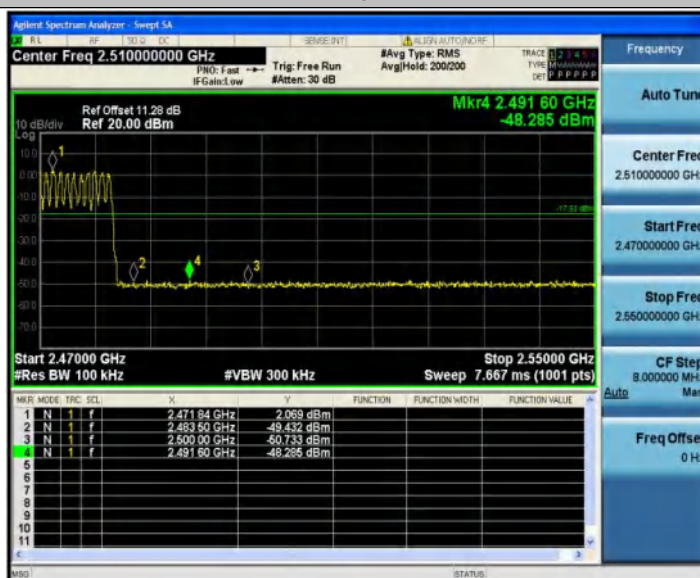
DH5_Ant1_High_2480



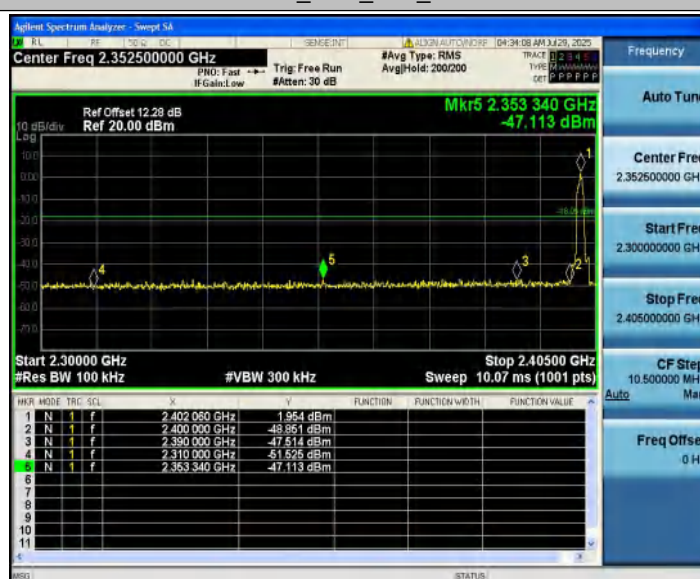
DH5_Ant1_Low_Hop_2402



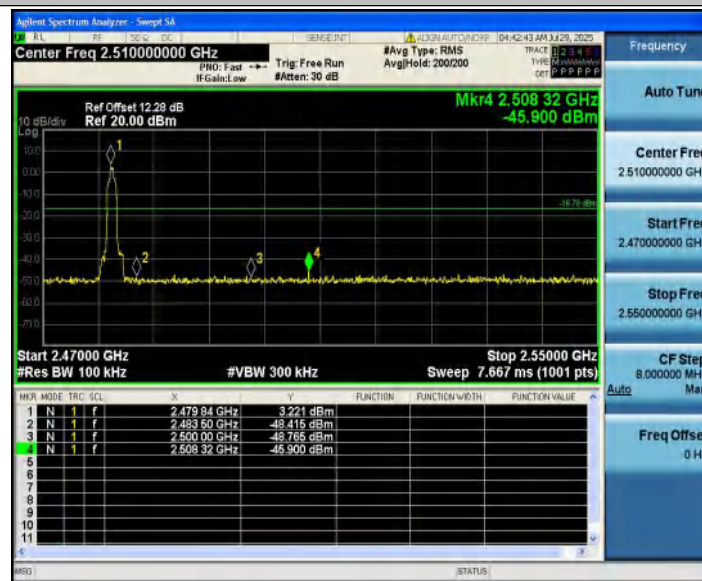
DH5_Ant1_High_Hop_2480



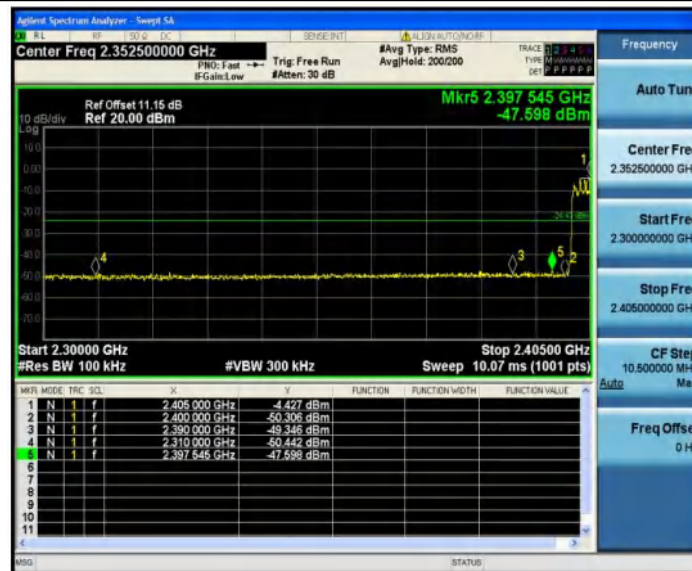
2DH5_Ant1_Low_2402



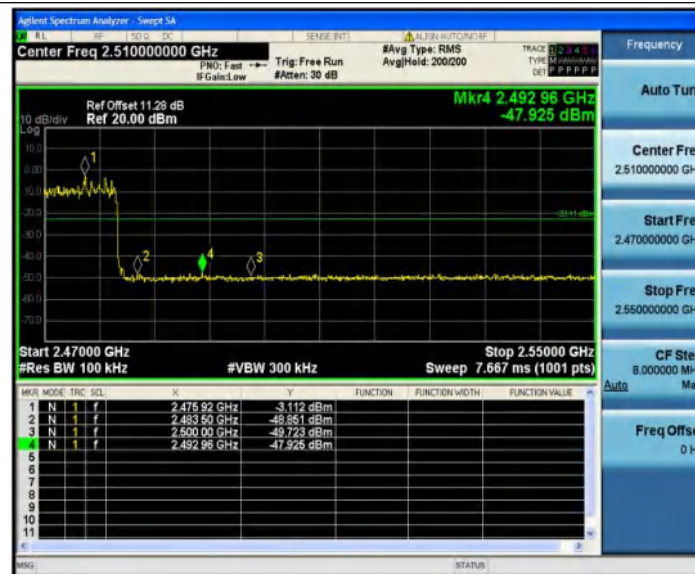
2DH5_Ant1_High_2480



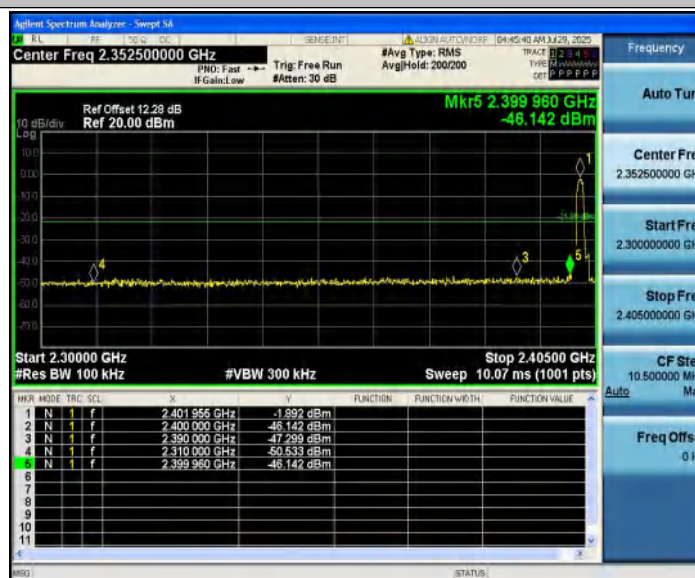
2DH5_Ant1_Low_Hop_2402



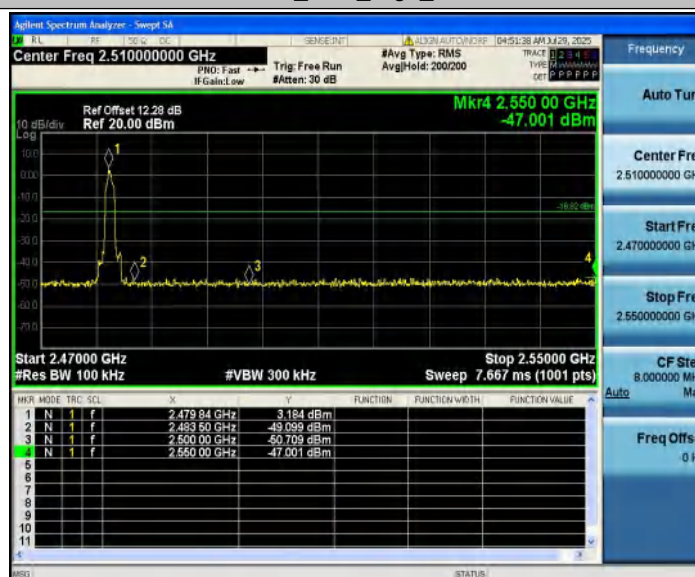
2DH5_Ant1_High_Hop_2480



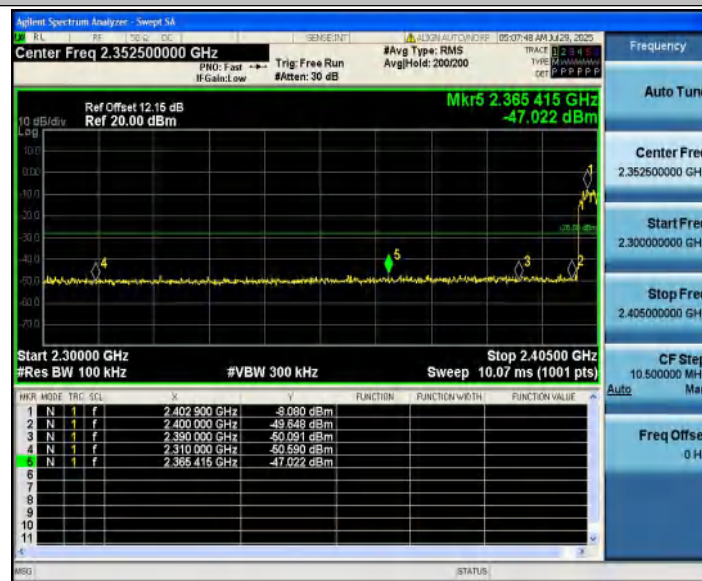
3DH5_Ant1_Low_2402



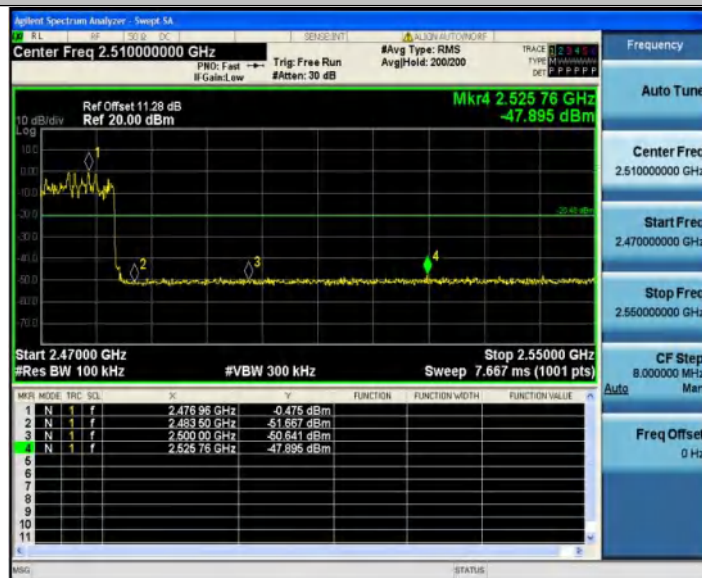
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



Appendix H: Conducted Spurious Emission

Test Result

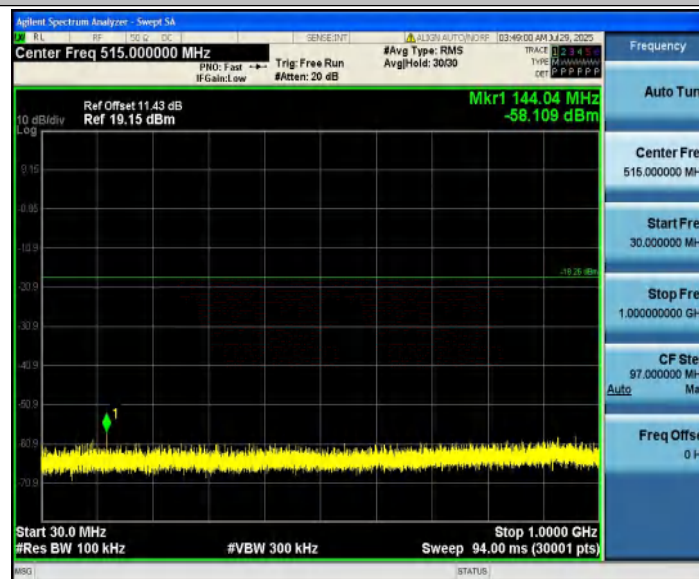
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.74	1.74	---	PASS
			30~1000	1.74	-58.11	≤-18.26	PASS
			1000~26500	1.74	-31.24	≤-18.26	PASS
		2441	Reference	2.54	2.54	---	PASS
			30~1000	2.54	-57.61	≤-17.46	PASS
			1000~26500	2.54	-31.59	≤-17.46	PASS
		2480	Reference	2.45	2.45	---	PASS
			30~1000	2.45	-57.88	≤-17.55	PASS
			1000~26500	2.45	-32.28	≤-17.55	PASS
2DH5	Ant1	2402	Reference	1.62	1.62	---	PASS
			30~1000	1.62	-58.39	≤-18.38	PASS
			1000~26500	1.62	-31.49	≤-18.38	PASS
		2441	Reference	0.70	0.70	---	PASS
			30~1000	0.70	-57.39	≤-19.3	PASS
			1000~26500	0.70	-33.29	≤-19.3	PASS
		2480	Reference	2.93	2.93	---	PASS
			30~1000	2.93	-57.9	≤-17.07	PASS
			1000~26500	2.93	-26.53	≤-17.07	PASS
3DH5	Ant1	2402	Reference	-2.59	-2.59	---	PASS
			30~1000	-2.59	-58.67	≤-22.59	PASS
			1000~26500	-2.59	-31.48	≤-22.59	PASS
		2441	Reference	-1.33	-1.33	---	PASS
			30~1000	-1.33	-58.55	≤-21.33	PASS
			1000~26500	-1.33	-35.05	≤-21.33	PASS
		2480	Reference	1.71	1.71	---	PASS
			30~1000	1.71	-57.4	≤-18.29	PASS
			1000~26500	1.71	-38.68	≤-18.29	PASS

Test Graphs

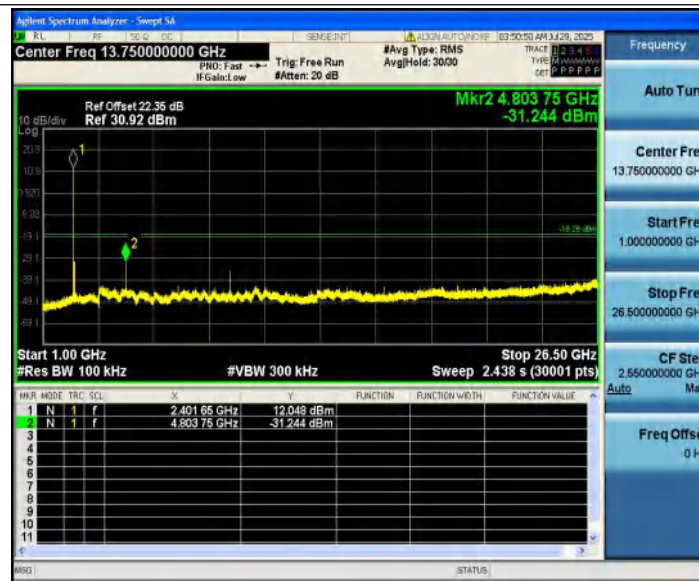
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



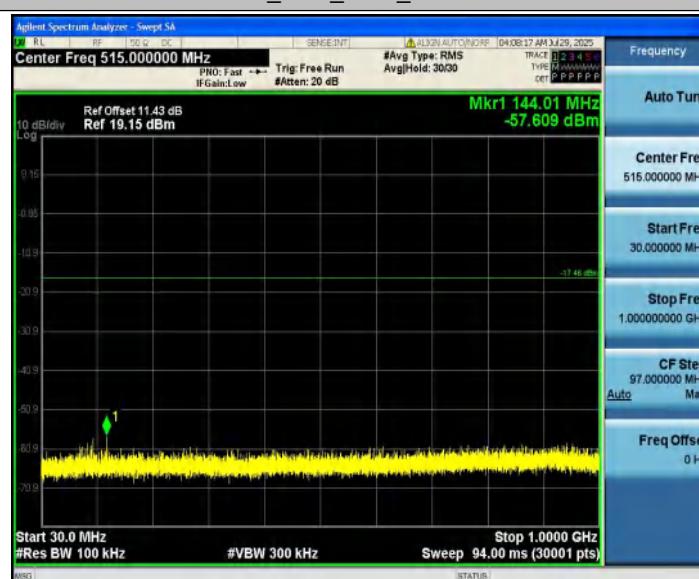
DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



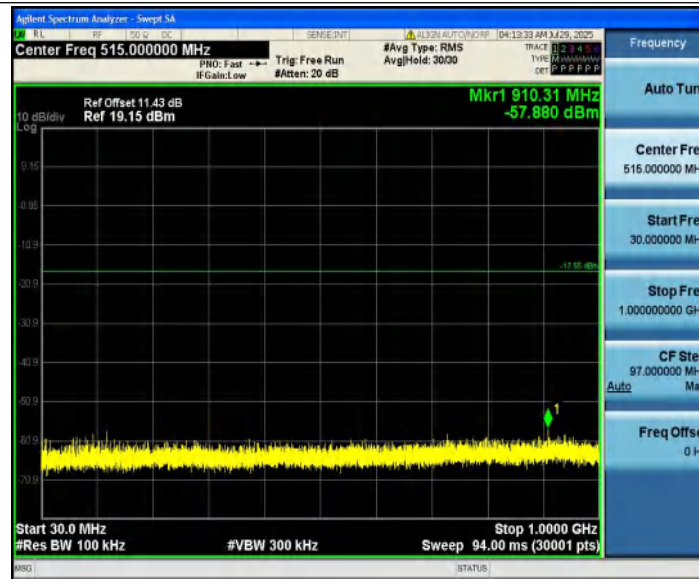
DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



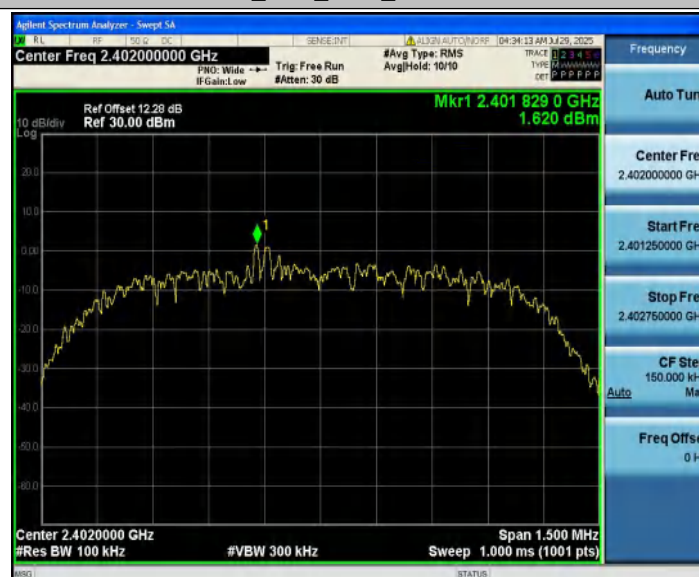
DH5_Ant1_2480_30~1000



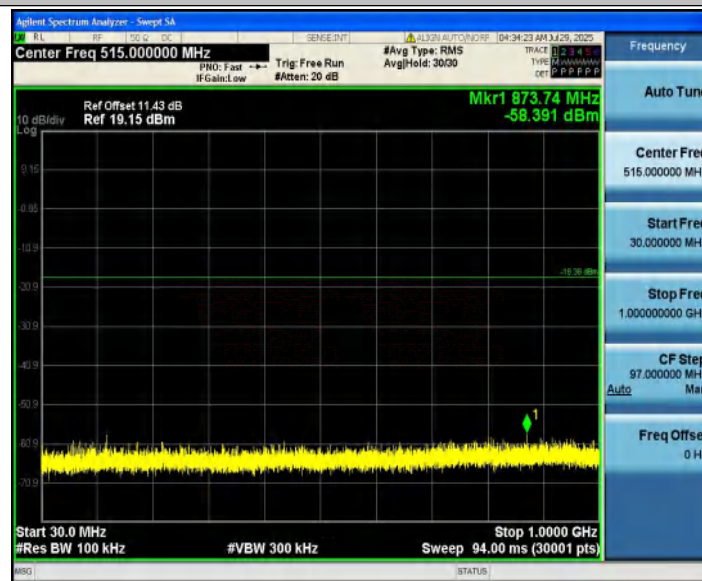
DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



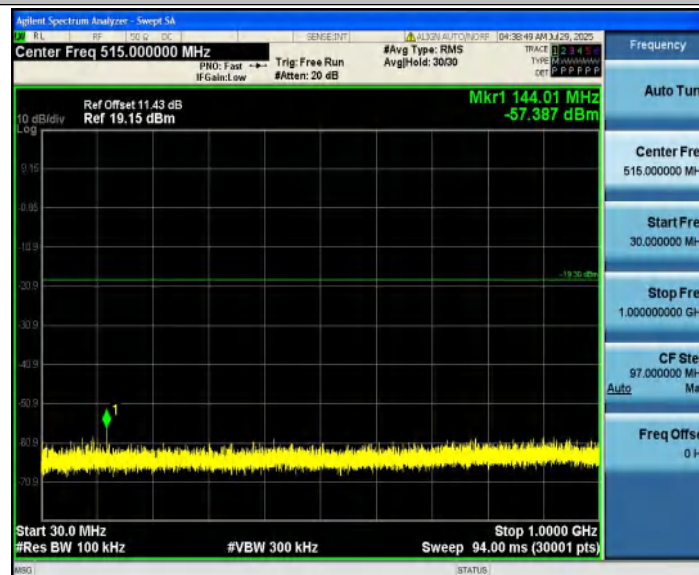
2DH5_Ant1_2402_1000~26500



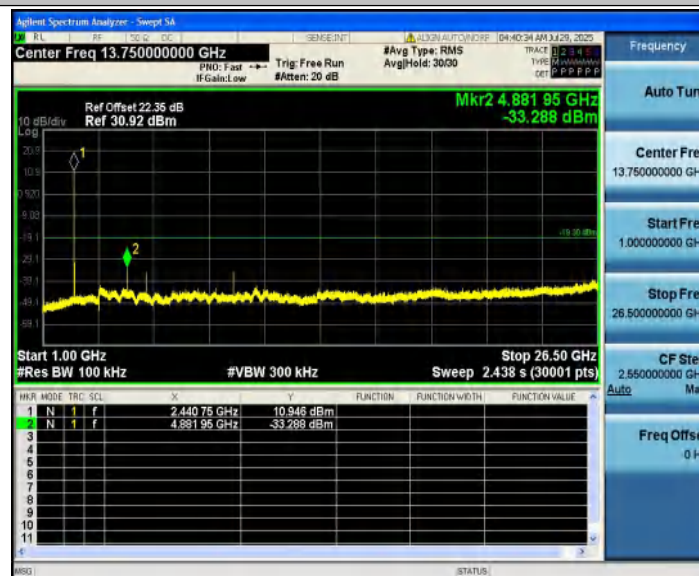
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



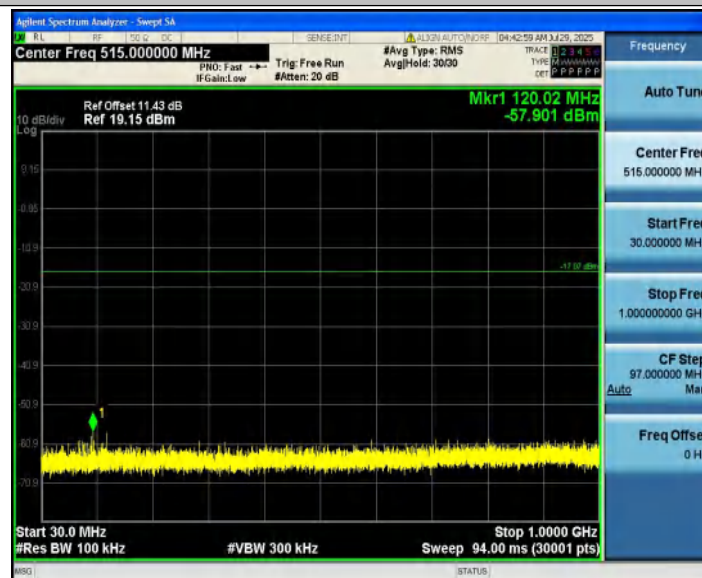
2DH5_Ant1_2441_1000~26500



2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



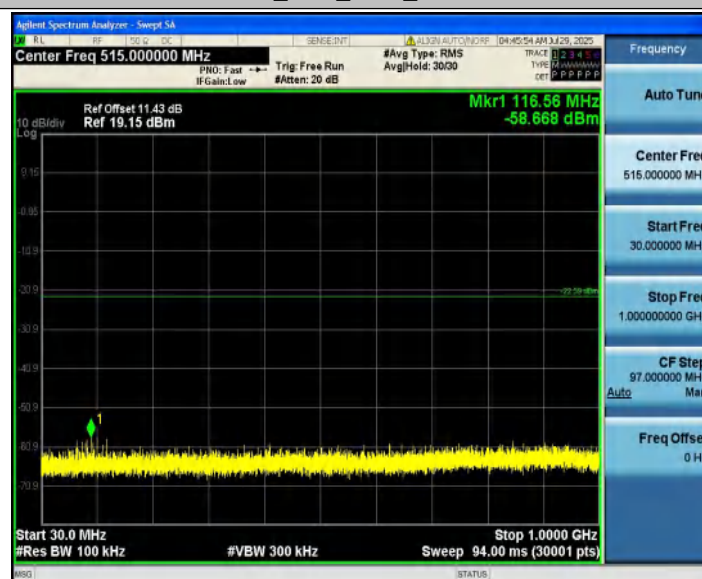
2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



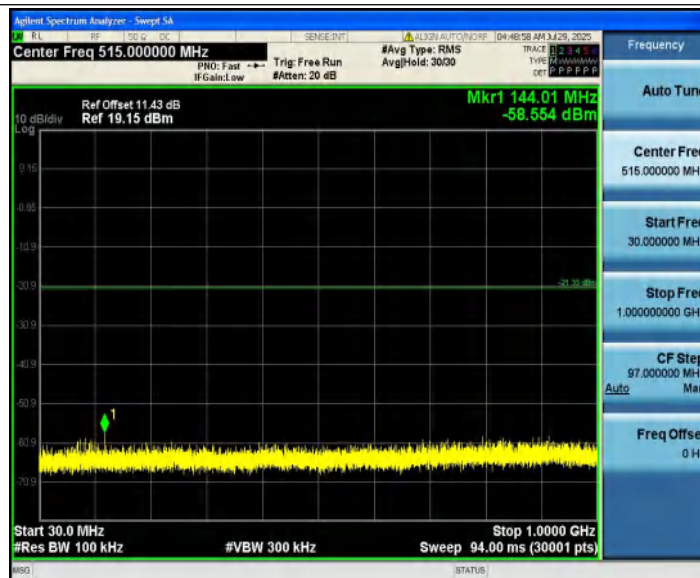
3DH5_Ant1_2402_1000~26500



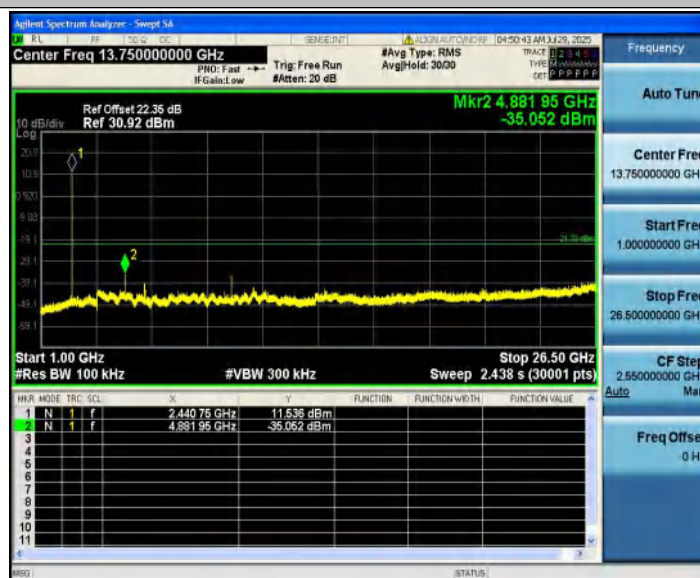
3DH5_Ant1_2441_0~Reference



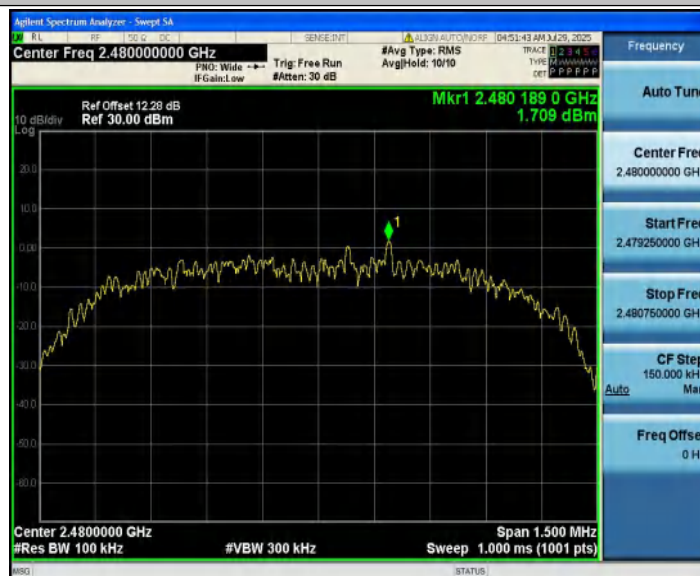
3DH5_Ant1_2441_30~1000



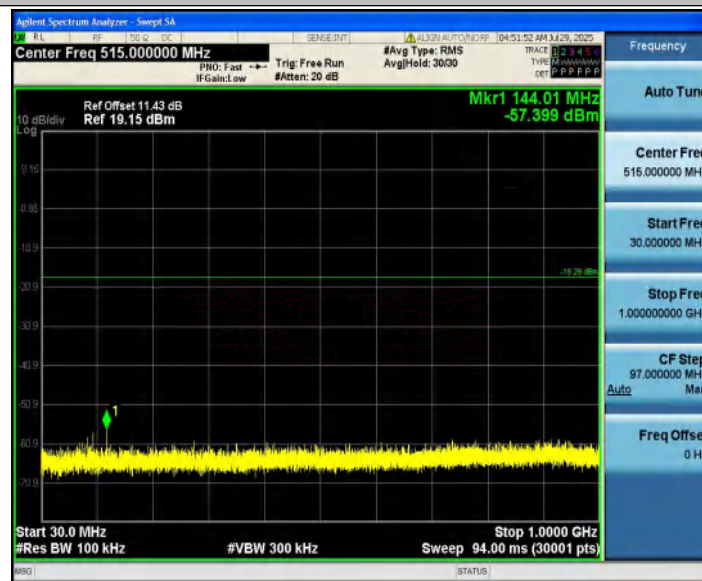
3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500

